### **APPENDIX 3**







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# 0.0 | INTRODUCTION

- **0.1** Purpose of this document
- 0.2 Role of the Design Code
- 0.3 Using the Design Code
- 0.4 Garden village ethos + principles



### 0.0 | INTRODUCTION

### **Document Background**

The document is informed by a range of influences from local, regional and national policy. These include the statutory plans, documents, standards and strategies that form part of the adopted Darlington Local Plan, as well as non-statutory frameworks and guidance produced by the Government.

In November 2016, the Council's Cabinet agreed to engage with the Advisory Team for Large Applications (ATLAS), now part of Homes England, to investigate how this part of the Borough could contribute to meeting the Borough's housing needs in a planned, sustainable way.

Working with the Council, the site's promoters and major landowners started a master planning exercise for the site in 2017. The emerging masterplan is being prepared with a focus on the landscape and biodiversity context of the site, its

heritage assets, and its relationship with existing communities, adopting the Healthy New Town principles to its layout and design (see Policy DC 3 of the Darlington Local Plan).

The master planning process has been informed by a number of studies to identify the opportunities and constraints of the area. This includes landscape, ecology, ground conditions, historic assets, transport and accessibility, as well as establishing the infrastructure and community facilities required to support a sustainable community, integrated with the existing urban area.

A draft masterplan was also the subject of public consultation organised by the sites promoters during the Autumn of 2017. This work, along with the feedback from consultation, has in turn informed the illustrative Masterplan Framework and draft policy

requirements for the strategic allocation.

### **About this document**

This Design Code has been commissioned by Darlington Borough Council (DBC) to assist the Council in its statutory planning role to secure and maintain the highest standards of design for the proposed development of Skerningham.

The Skerningham Garden Village Design Code (this document) sets out the strategic design requirements to be provided in the future site development masterplan.

The Design Code is intended to be user-friendly for all readers and therefore easy to understand and apply. This will ensure that all elements within the scheme are designed to work in harmony towards achieving the design vision of a locally distinctive, high-quality place.

### **Design Code Pathfinder Programme**

The Government is committed to supporting and funding local authorities to ensure the planning system delivers more beautiful and sustainable buildings and places. The Department for Levelling Up, Housing and Communities (DLUHC) has supported 39 organisations (local authorities and four neighbourhood planning groups) as pathfinders to produce exemplar design codes and design coding processes, from which others can learn best practice This Design Code is part of that programme.

A wider support package includes thematic workshops, one to one support provided by the Office for Place, collective round-tables and the peer-to-peer networks.

All pathfinders have committed to prepare a project plan at the start of the programme, that has been shared with DLUHC.

### 0.1 | PURPOSE OF THIS DOCUMENT

Policy H10 of the Local Plan requires that, before the developers' masterplan is prepared, the Council prepares a Design Code (this document) for the site, in consultation with the community, within a time-scale of approximately six months of the Local Plan being adopted.

The Council will adopt the Design Code as a Supplementary Planning Document and the comprehensive masterplan and planning applications will be required to have regard to it.

The finalised comprehensive masterplan including infrastructure phasing plan is to be prepared by the applicant(s) in consultation with the community and is to be agreed with the Council in advance of any planning application being submitted

for the Skerningham allocation site, either as a whole or in part.

An infrastructure phasing plan is required to set out in further detail the appropriate phases of the development that the infrastructure requirements as set out in parts a-i of policy H10 of the Darlington Local Plan will be provided. This includes community and social facilities including neighbourhood centre, health hub, schools and other community facilities; green infrastructure and transport network prioritising sustainable transport.

The Design Code will be considered by the Council and when approved it will thereafter be used to check that the proposals brought forward for the new garden village meet the very high design quality thresholds before granting consent for the initial strategic masterplan and the subsequent detailed elements within it. As the Design Code is intended to be used throughout the implementation period for the garden village it will be periodically reviewed and where appropriate updated.

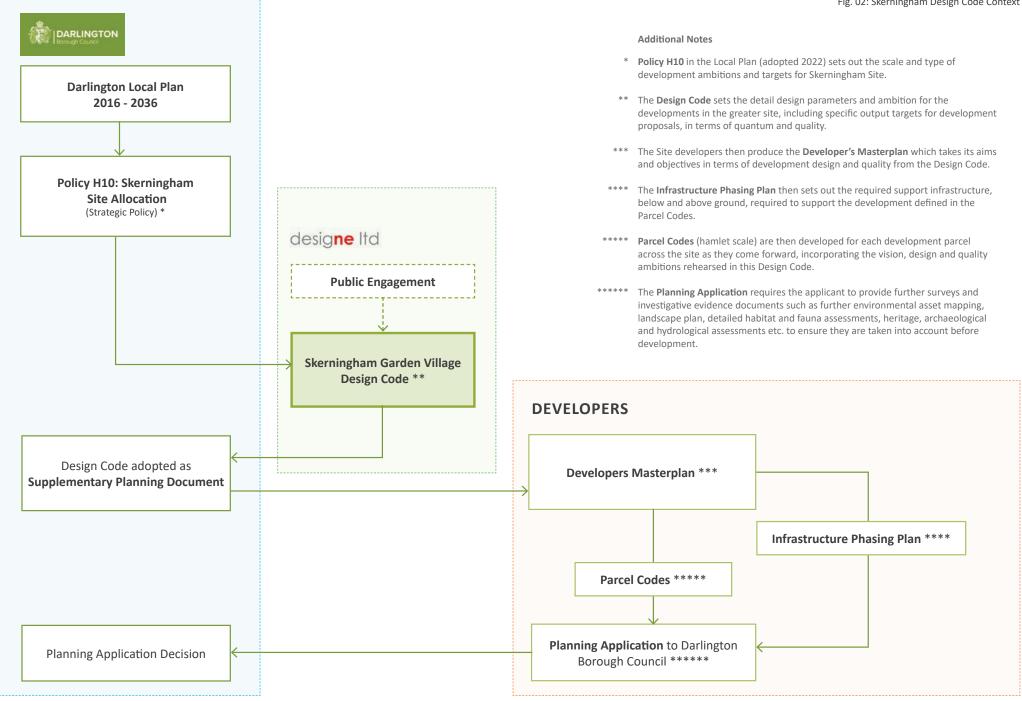
The use of Design Codes is promoted within the Department for Levelling Up, Housing and Communities (DLUHC) National Design Guide and further government guidance will be brought forward providing best practice advice on the use and content of such Design Codes.

### **Parcel Codes**

Once individual, discrete development parcels have been defined, a strategic Parcel Code for a block of development can be produced by the Developer drawing upon the Design Coding for the overall scheme but highlighting specific building/public realm characteristics. The opportunity here is for the overall development to have a cohesive character but for a distinct identity of the individual hamlets to be defined and designed.

This will further avoid the overall scheme becoming a monoculture in terms of architectural style or planting character.

On sites of the scale of Skerningham the term "parcel code" would refer to a sub-set of a Character Area and relate to a hamlet-sized development parcel.



### 0.2 | ROLE OF THE DESIGN CODE



This Design Code must be used as overarching guidance for any future planning applications which come forward for the site.

The intention is to ensure that design quality is maintained throughout the entire development and that the vision for Skerningham is delivered.

# **01.**TO GUIDE FUTURE DEVELOPMENT

This design code establishes a clear set of rules and standards that will guide development in the future while offering the opportunity for creativity and flexibility for designers and developers.

# **02.**TO ENSURE HIGH QUALITY DESIGN

The Design Code will guide the character of development and ensure high-quality proposals that meet the vision and aspirations of the local community.

# **03.**TO ENSURE SITE SPECIFIC DESIGN

The Design Code will guide development by using a range of mandatory and advisory coding elements across the site in its entirety as well as within a defined set of character areas.

### 0.3 | USING THIS DOCUMENT

The structure of this document follows the National Model Design Code guidance modelled on the ten characteristics of well designed places set out in the National Design Guide. Under each section heading, the body text is broken down into shorter paragraphs with subheadings to allow easy navigation.

Mandatory coding elements are highlighted in green which set out clear design principles to be considered during the design process. The assessment tools set out under section 7.0 provide a simple method of testing whether a proposed design meets the intended targets set out in the Design Code.

Section titles in accordance with the National Model Design Code guidance.

#### 4.7 | HOMES + BUILDINGS

#### **Building Design Ethos**

The design of the buildings must be contextual and take influence from the local vernacular represented in a contemporary way. Building on the past and combining this with current best practice and sustainable architecture will help create a distinctive development.

Many schemes have the ambition of being exemplar from the outside however this ambition can be watered down during the design, procurement and building process and it is important the principles of the scheme as being exemplar is engrained into project and all involved have this collective buy. Objectives and quantifiable exemplar outcomes are to be identify early on and assessed throughout the process in order for the aspirations to become reality.

The built form is to consider the existing features and topology of the site and have design solutions that work with the existing constraints and not use standard house types that require the flattening of the site.

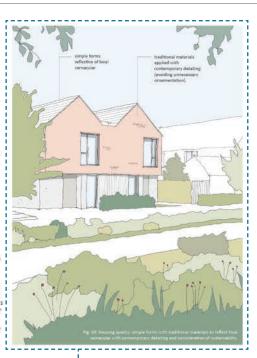
#### Housing Quality

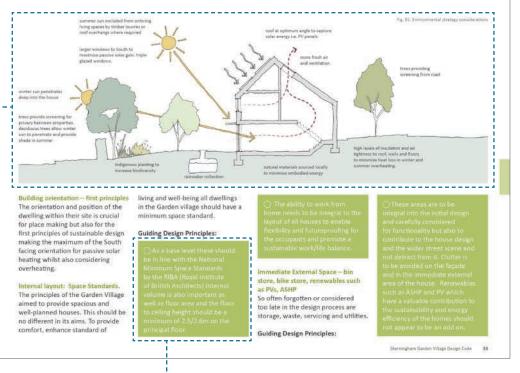
Successful residential design can be aided by thoroughly understanding the distinctiveness of the local area. Some of the key considerations are highlighted within the Darlington Local Plan and section 2.0 Baseline Analysis. Using these studies to inform the design will help to develop high quality, contemporary design grounded in the vernaculargiving both a sense of renewal and belonging.

Poorly executed pastiche version of the traditional is to be avoided as is a pick and mix of different architectural styles or periods.

#### Form of Buildings

Compact simple forms. Drawing from the vernacular of the area with contemporary interpretation. Form factor to be considered. The form, scale and layout are to contribute to the sense of place and help create a community feel. Oranmental add ons should be avoided and any 'addition' should be integral to the overall design, contributing to the character and distinctness of the place.





Page numbers as referenced in contents page.

Precedent images and/ or annotated diagrams are provided to illustrate principles within the code. They are not intended to inform or infer architectural style.

Mandatory coding principles for designers are highlighted in green within each section.

Fig. 04: Visual guide to using the document

### 0.4 | GARDEN VILLAGE ETHOS + PRINCIPLES

The promotion of new garden villages across England has been led by the DLUHC reflecting the desire to draw upon the successes of the original early 20th Century settlements in providing sustainable, enduring and popular places to live and work whilst enjoying a community lifestyle focussed on personal well-being within an attractive natural environment setting.

The Town and Country Planning Association (TCPA) has led the promotion of new garden villages believing that a new generation of 21st century garden cities could help to solve a range of problems such as the acute shortage of housing in the UK and the need to respond to climate change. This was set out in their influential 2011 publication "Re-imagining Garden Cities for the 21st Century: Benefits and Lessons in

Bringing forward Comprehensively Planned New Communities".

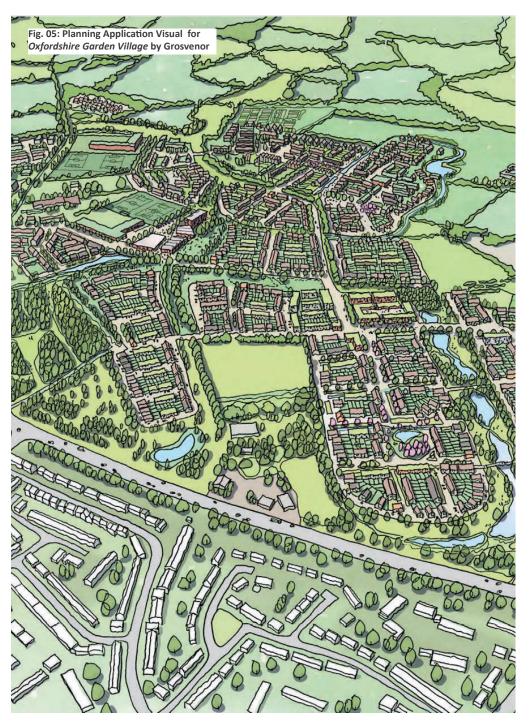
The principal features of a successful garden village as envisaged by the TCPA are to be:

A holistically planned new settlement which enhances the natural environment and offers high-quality affordable housing and locally accessible work in beautiful, healthy and sociable communities.

The related Principles for a Garden Village are highlighted in the following page. These are intended to provide a framework for implementation and delivery.



Fig. 05: Garden Communities Programme as of October 2020



### **Clear Identity**

A distinctive local identity, including an attractive and functioning centre and public realm at its heart.

#### Sustainable scale

Built at a scale which supports the necessary infrastructure to allow the community to function self-sufficiently on a day to day basis, with the capacity for future growth.

### **Well-designed places**

With vibrant mixed use communities that support a range of local employment types and premises, retail opportunities, recreational and community facilities.

### **Strong local vision**

Designed with the engagement of the existing local community, and future residents and businesses, including consideration of the existing natural and historic environment of the local area.

### **Transport**

Integrated, forward looking and accessible transport options. This must include promotion of public transport, walking, and cycling so that settlements are easy to navigate, and facilitate simple and sustainable access to jobs, education, and services.

### **Great homes**

A wide range of high quality, distinctive homes, including affordable housing and a mix of tenures for all stages of life.

### **Healthy places**

Designed to provide the choices and chances for all to live a healthy life, through taking a whole systems approach to key local health and well-being priorities and strategies.

### **Green space**

Generous, accessible, and good quality green and blue infrastructure that promotes health, well-being, activity, and quality of life, and considers opportunities to deliver environmental benefits such as biodiversity net gain, carbon sequestation, and enhancements to natural capital.

### **Legacy and Stewardship**

Must be in place for the care of community assets, infrastructure and public realm, for the benefit of the whole community.

### **Future proofed**

Designed to be resilient places that allow for changing demographics, future growth, and the impacts of climate change, with durable landscape and building design planned for generations to come.



# 1.0 | VISION

- 1.1 Vision
- 1.2 Public Engagement
- 1.3 Thinkpieces

### **1.1 | VISION**

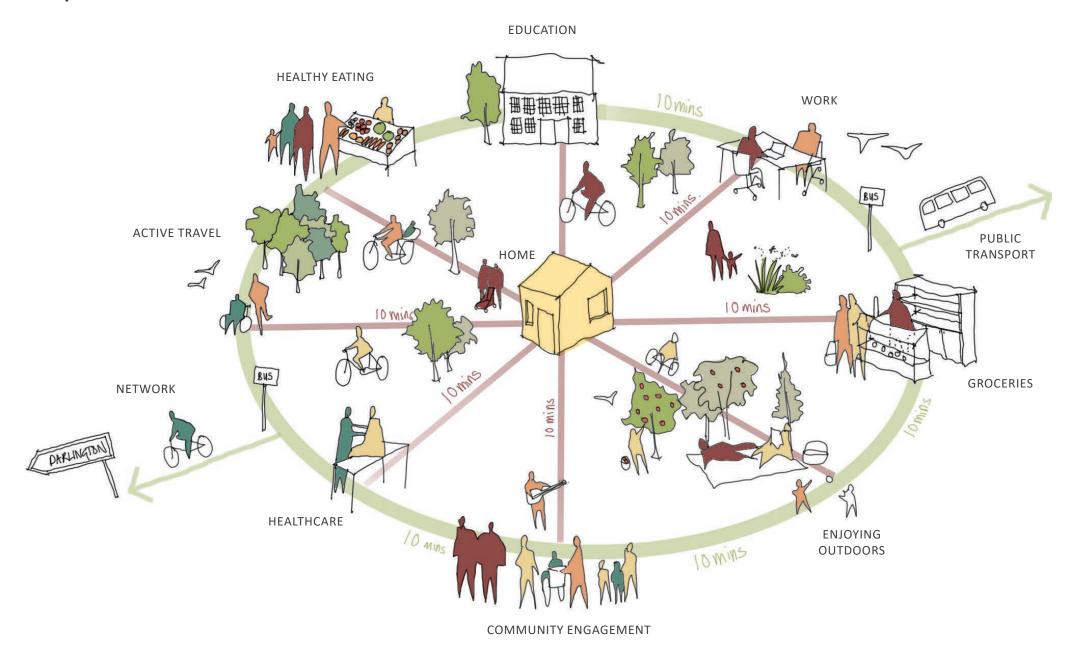


Fig. 6: Vision diagram: 20min walkable neighbourhood

### **Vision Statement**

The Vision for Skerningham Garden Village is

to create a highly liveable and sustainable community that prioritises the people that live there; their health and well-being and overall quality of life.

There are 3 key threads that encompass the objectives behind achieving this vision: Healthy Living, Innovation and Sense of Place. These have been informed by extensive and valuable public engagement, rigorous consideration of the relevance to Skerningham of key policy themes and current best practice as outlined in the Thinkpiece summaries in Appendix 9.3.

# **01.**HEALTHY LIVING

The Skerningham Garden Village will have a strong health and well-being focus, secured by nature led design, and a compact 20 minute (10 mins there and 10 mins back) walkable neighbourhood design philosophy in order to encourage walking and cycling for all local trips by all ages.

The Skerningham Garden Village will embed the 10 principles outlined in 'Putting Health into Place' (PHiP) collated from the Healthy New Towns Pilot across the UK.

## **02.** INNOVATION

There will be a vibrant mix of energy efficient, climate-change ready housing types and styles in streets that put people and place first thereby creating highly liveable and sustainable communities. All new homes will be gas free, powered by low carbon energy and incorporate innovative technology to manage energy demand.

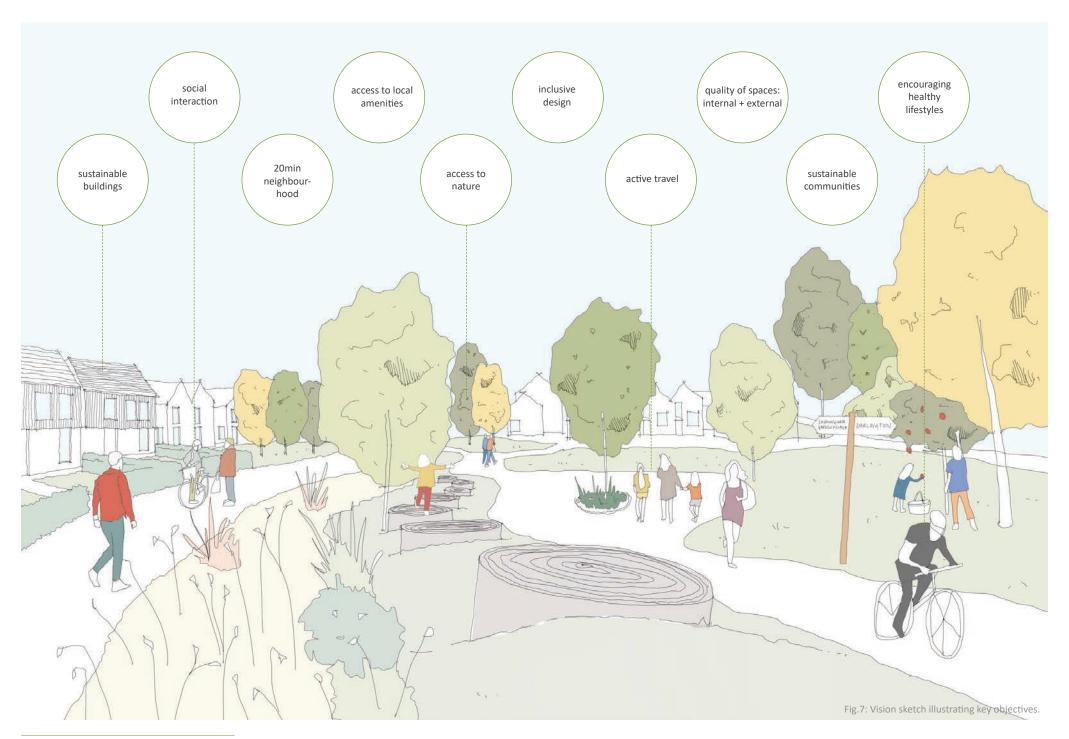
High-speed broadband is expected to be incorporated across the site. The Garden Village must achieve a bio-diversity net gain from the development of the site.

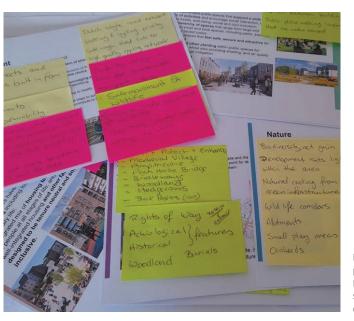
# **03.** SENSE OF PLACE

The Garden Village will have a strong sense of place and local focus building on the priority that local people place on the benefits of local nature and wildlife to health and wellbeing.

New primary and secondary schools, together with other essential community facilities will, along with all homes, enjoy close access to the benefits of existing or meaningful proposed green and blue infrastructure.

Historic routes and landscape will be preserved and enhanced with the aid of the design code to provide green corridors linking the existing and future communities to the high quality open spaces, as well as to the proposed Skerne Valley Country Park in the northern part of the site.





### 1.2 | PUBLIC ENGAGEMENT

Fig. 8: (left) Image from public engagement Fig. 9: (right) Outcome snapshot from public engagement

### **Community Engagement Summary** of Process and Outcomes

This Design Code has been shaped by the effective engagement of both the residents of Darlington as a whole and specifically the local communities adjacent to the proposed Garden Village.

One Darlington the Borough Councils' magazine that is delivered to all residents, included feature articles about the proposed Garden Village. It explained how people could get involved with developing a Design Code. A designated page on the Darlington website provided regular updates and useful learning material.

In addition a programme of local face to face workshops were held to involve the local community in the development of the Design Code . The following proposed outcomes for the Public Engagement were shared and agreed at the outset;

- + An exemplary Design Code for Skerningham.
- + Good Quality Engagement so that people feel involved and informed.
- + Tangible 'Stuff' in the code that people would recognise as theirs.

The initial workshops were designed to build capacity in the local community to engage with the

process of developing a design code. This started with raising awareness of the ten characteristics of well-designed places, their relevance to Skerningham, and how local preferences would be considered for inclusion in the design code.

The aim has been to encourage a positive discussion about the potential to influence the quality and successful creation of Skerningham Garden Village, illustrate relationships between the public engagement and the development of the code and show how participants will recognise their input. These initial workshops indicated in particular the local

importance of access to nature in the adjacent countryside, good, connected footpath and cycle networks, minimal impact on existing communities and a good mix of housing designed for climate change.

Further workshops have then distilled the many comments and suggestions to enable a further refinement of local preferences and greater clarity of the things that the design code will need to take into account.

Refer to Appendix 9.6 for detailed summary of community engagement process and outcomes.

### 1.3 | THINKPIECES

### **Thinkpiece Introduction**

designe have commissioned a series of "Thinkpieces" from its Panel of Built Environment Experts. The purpose of Thinkpieces is to take a relevant key subject, examine it in detail, and establish what is the most current and up-to-date thinking on that subject irrespective of geographic location. Also, what is the direction of travel for those subjects and what national milestones or rules are being prepared for implementation?

Some of the issues raised in this section of the Design Code are challenging, but necessarily so. The world is changing – mankind is slowly realising the imperative to change too – what seems almost far-fetched is rapidly becoming reality and we will need to make difficult decisions

and be much more creative, particularly in our responses to climate change effects and liveability.

It is important to understand that the issues rehearsed in these Thinkpieces are relevant across the country and are not just specific to the Skerningham site. Not every part of a Thinkpiece is relevant to a specific development site. But each Thinkpiece has an influence on other areas of the Design Code.

These Thinkpieces inform the Strategic Toolkit in Section 4.0.

Thinkpiece summaries are attached in Appendix 9.3.

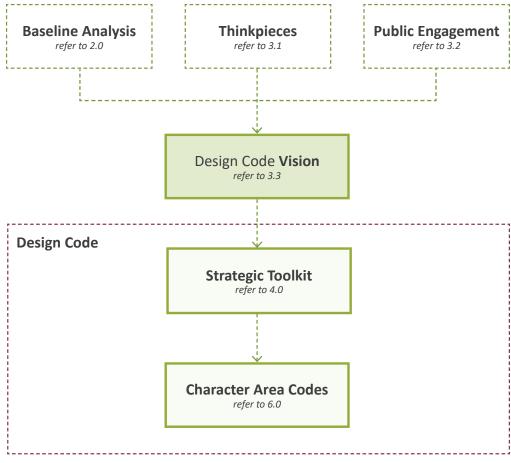


Fig. 10: Design Code Process and Output

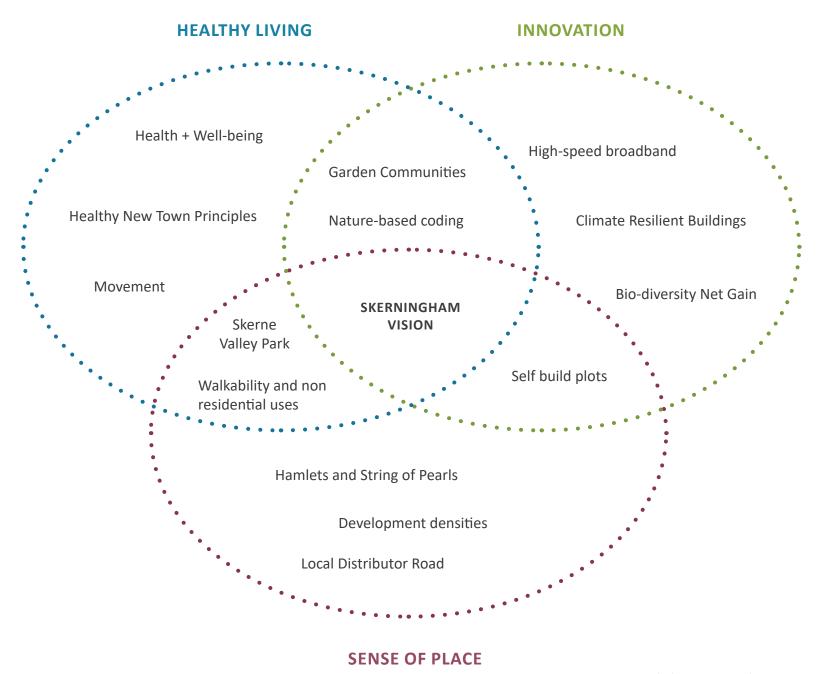


Fig. 11: Thinkpiece topics in relation to Vision as defined in section 1.1.



# 2.0 | CONTEXT

- 2.1 Local Context
- 2.2 Site Context
- 2.3 Planning Context

### 2.1 | LOCAL CONTEXT

### **Darlington**

As described in Darlington Borough Council Local Plan 2016-2036 'The Borough is regarded as the 'gateway' to the Tees Valley and the wider North East region.

Darlington is a historic market town, surrounded by open countryside with many attractive rural villages.

An abundance of street trees and open space within the urban area contribute to the town's distinctiveness and biodiversity, particularly the green corridors along the River Skerne, Cocker Beck and Baydale Beck. An attractive, biodiverse and often wooded landscape has evolved along the River Tees corridor, complemented by more recent community woodland planting, especially at the urban fringe.'

### **Darlington Council Plan 2020 – 2023**

The Vision - Darlington is a place where people want to live and businesses want to locate, where the economy continues to grow, where people are happy and proud of the

borough and where everyone has the opportunity to maximise their potential.

### **Deliver Success For Darlington**

The Council will create the conditions and opportunities for growth, but it is the private sector from which much of the investment required to deliver growth will come. Our key partner in growing the economy is the Tees Valley Combined Authority, from which much of the funding required to deliver growth will come and be invested in Darlington and the Tees Valley. A thriving Tees Valley economy is important for Darlington's success and so we will continue to work with and support our neighbouring Tees Valley councils.

The borough's biggest asset is its residents, they make the place what it is and the Council hope everyone will get behind our plans to make it an even better place. We should all be proud and emphasise the positive benefits of living and working in a great borough.

### **Growing Darlington's economy by delivering:**

- More sustainable, well paid jobs
- More businesses
- More homes

### Supporting economic growth by keeping the borough:

- Clean
- Sustainable

Safe

- Well-planned
- Healthy
- On the move

### Whilst:

• Valuing our heritage and culture

### Supporting the most vulnerable in the borough by:

- Providing care and support when needed.
- Working with people to build their strengths to maximise their potential.
- Working with partners.

### Maximise the potential of our young people by:

- Working with partners to maximise educational achievement.
- Working to remove barriers to young people reaching their potential.
- Working at a Tees Valley Level to match jobs with skills and training.

### Working with communities to maximise their potential by:

- Maximising the benefits of a growing economy for all communities.
- Targeting services where they are most needed.
- Working with partners and communities.





### 2.2 | SITE CONTEXT



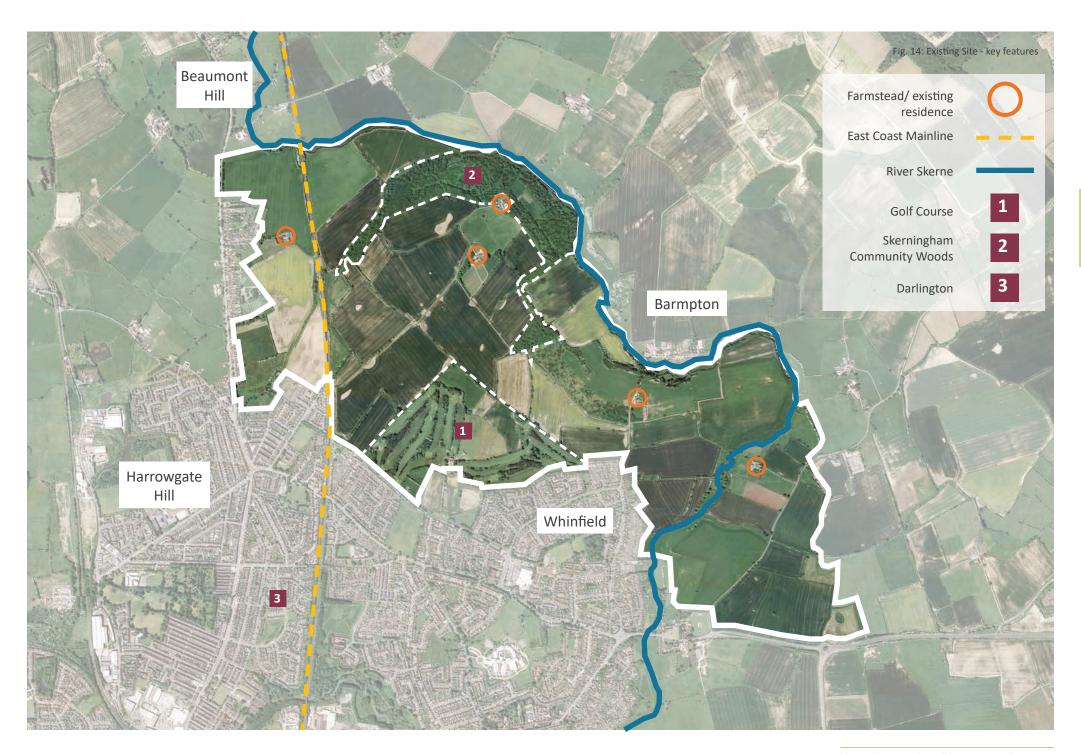
### **Skerningham Site**

The Skerningham area to the North East of Darlington, was identified as having potential for housing development as part of the Darlington Borough Council Local Plan Issues and Scoping consultation held in August 2016.

The site area extends to approximately 487 hectares and is largely comprised of agricultural fields. It also includes Darlington

Golf Club; Skerningham Community Woods; the East Coast Mainline to the west; and the River Skerne which lies towards the northern boundary. There are several farmsteads and existing residential properties within the site at Low Beaumont Hill, Skerningham Manor, Low Skerningham, Elm Tree House, Elly Hill House and Burdon Gardens.

Refer to 2.0 Baseline Analysis for further information on existing site.



### 2.3 | PLANNING CONTEXT

### National Planning Policy Framework (NPPF 2021)

The National Planning Policy
Framework (NPPF) sets out
the Government's economic,
environmental and social planning
policies for England. The policies
set out in this framework apply
to the preparation of local and
neighbourhood plans and to
decisions on planning applications.

Paragraph 10 of the NPPF states: "at the heart of the Framework is a presumption in favour of sustainable development."

In terms of housing growth, the NPPF states that: "To support the Government's objective of significantly boosting the supply of homes, it is important that a sufficient amount and variety of land can come forward where it is needed,

that the needs of groups with specific housing requirements are addressed and that land with permission is developed without unnecessary delay" (paragraph 60).

When planning for larger scale development, the NPPF states that Local Planning Authorities must, among other things - "consider the opportunities presented by existing or planned investment in infrastructure, the area's economic potential and the scope for net environmental gains;...[and]...set clear expectations for the quality of places to be created and how this can be maintained (such as by following Garden City principles), and ensure that appropriate tools such as masterplans and design guides or codes are used to secure a variety of well-designed and beautiful homes to meet the needs of different groups

in the community " (paragraph 73).

The NPPF is clear, at paragraph 8, that the planning system should support: "strong, vibrant and healthy communities, by ensuring that a sufficient number and range of homes can be provided to meet the needs of present and future generations; and by fostering a well-designed and safe built environment, with accessible services and open spaces that reflect current and future needs and support communities' health, social and cultural well-being."

In Chapter 12, the NPPF places an emphasis on achieving well-designed places which can be aided by early engagement with local communities and other stakeholders. The NPPF states that: "Early discussion between applicants,

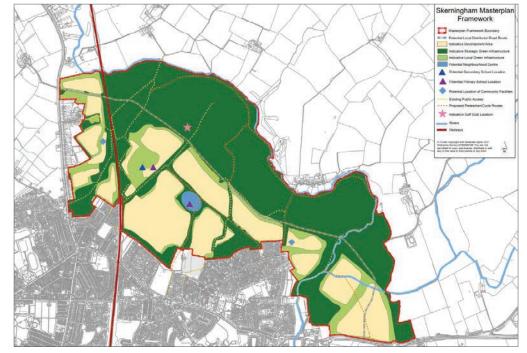
the local planning authority and local community about the design and style of emerging schemes is important for clarifying expectations and reconciling local and commercial interests. Applicants should work closely with those affected by their proposals to evolve designs that take account of the views of the community." (Paragraph 132).

### **Darlington Local Plan 2016 - 2036**

The Darlington Local Plan is now adopted (February 2022) . The Local Plan identifies Skerningham as a location to facilitate the delivery of a high-quality mixeduse community with education, employment, housing, and open space. This is intended to provide the right economic and environmental conditions to support a sustainable new community to the north east of Darlington.

Fig. 15: (top right) Skerningham Masterplan Framework from Darlington Borough Council Local Plan 2016 -2036

Fig. 16: (bottom right) Skerningham Masterplan Framework (with golf course in situ) from Darlington Borough Council Local Plan 2016 -2036



### Policy H10: Skerningham Site Allocation

Policy H10 of the Darlington Local Plan allocates Skerningham as a strategic site for the delivery of 4,500 dwellings with an expectation that 1,650 dwellings will come forward in the plan period.

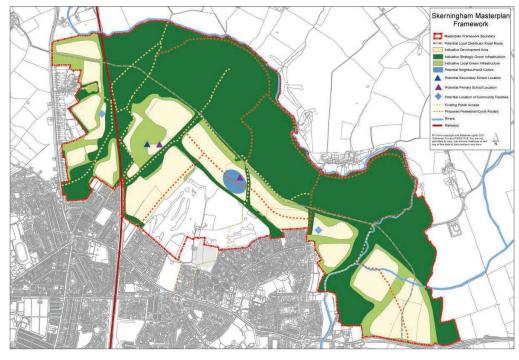
The site is also identified to deliver new schools; community and health facilities and commercial / employment. Policy H10 outlines a number of principles that are established which any development at Skerningham will be required to accord with.

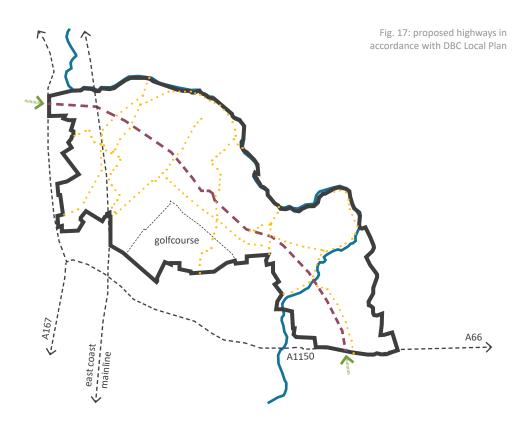
The key parameters cover phasing, local facilities provision, highways, housing, and green and blue infrastructure.

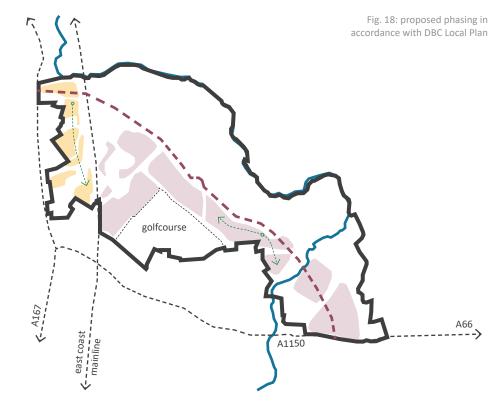
The preferred approach for the development of the Skerningham site, set out in the Local Plan, is for the golf club to be relocated (see Fig. 15). This issue might require further discussion.

However, should it be demonstrated that this is not possible, the Local Plan suggests an alternative masterplan framework which illustrates how the key principles for the development of the Skerningham site (see Fig. 16).

The following diagrams illustrate a summary of the proposed development parameters and deliverables in accordance with the Skerningham Masterplan Framework. Refer to the Local Plan for further and more detailed information.







### **Highways**

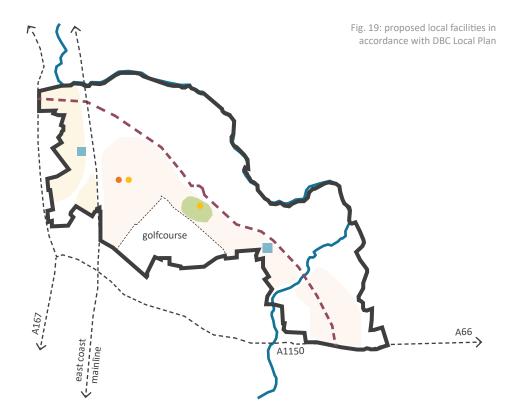
The Local Plan proposes a new distributor road between the A167 and A1150 with new vehicular access points from existing roads. Policy H10 requires an integrated transport network focused on sustainable transport modes, including public transport, walking and cycling with strong links to adjoining communities, employment locations and Darlington town centre. Refer to Policy H10 for key phasing requirements that coordinate with the initial phases of development.

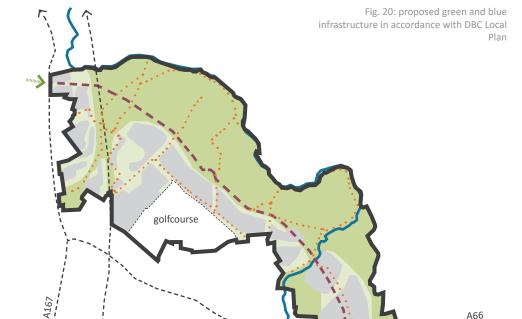
Principal vehicular access points
 Proposed Local Distributor Road
 Existing and proposed public access routes

### **Initial Phasing**

Policy H10 of the Darlington Local Plan allocates Skerningham as a strategic site for the delivery of 4,500 dwellings to include a mix of housing types, tenures and sizes including self-build/ custom build housing and minimum of 20% affordable housing to be delivered. Approximately 1,650 homes are to be delivered during the plan period [note: this is not capped] of which 600 dwellings are to be delivered on land adjacent to the A167 and West of the East Coast Mainline on the western part of the allocation; and 1,050 dwellings to be delivered on land to the East of East Coast Mainline on the eastern part of the allocation with initial phases located on land adjoining Barmpton Lane.

600 dwellings 1,050 dwellings and future development Initial phases



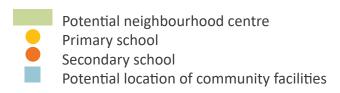


### **Local Facilities**

Policy H10 requires a centrally located and well-connected neighbourhood centre which is to include a health hub, other community facilities for education, employment, retail, and food and drink. Community facilities must be closely related to public transport links, walking and cycling facilities, and respond to the scale and nature of the surrounding development. All Local Facilities are located to encourage a 20 minute neighbourhood.

### **Green and Blue Infrastructure**

The Local Plan states that "around 45% of the site area is expected to be retained and enhanced as accessible green infrastructure, managed agricultural land and/or the relocated golf club, as part of a wide green corridor on the south side of the River Skerne". This would increase to around 55% of the site should the golf club remain in situ.





Safe, attractive and accessible network of public foot and cycle paths Well integrated and inter-connected green spaces to provide space for the local community, wildlife, sports and recreation, and allotments. Indicative development area.



## 3.0 | BASELINE ANALYSIS

- 3.1 Topography
- 3.2 Open space + green infrastructure
- 3.3 Heritage assets
- 3.4 Community infrastructure + schools
- 3.5 Public transport accessibility
- 3.6 Road/street hierarchy

### 3.0 | BASELINE ANALYSIS

### Introduction

The purpose of this section is to establish and describe "what the site currently is", highlighting any relevant topographical, natural or man-made characteristics that can be considered as **relevant factors** in any development of the site, and from these to identify **predominant factors** which are most likely to influence the form and location and detail of any proposed development on the site.



Fig. 21: Skerningham Woods

### 3.1 | TOPOGRAPHY

Fig. 22: Topography map highlighting relevant key attributes

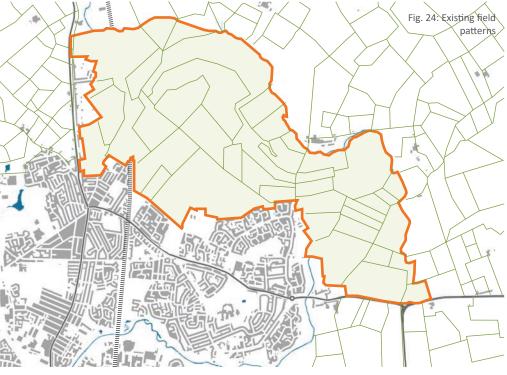


The varied existing topography of the overall allocated site for the Skerningham Garden Village will be a key influence on the respective character areas reflecting their related landscape context.

Defined by a ridge, the shallow Skerne river valley is a distinct feature along the northeast boundary. Broadly the site landform falls in this direction with an overall range of some 28m difference in ground levels with notable high points located at Low Beaumont Hill; Skerningham Manor; Hutton Plantation; the restored Barmpton Quarry site; and Elly Hill. Much of the garden village area is characterised by gentle slopes with the steeper slopes located around Barmpton and Skerningham – the eastern most area near Bishopton Lane is generally flatter with occasional undulations.

### 3.2 | OPEN SPACE AND GREEN INFRASTRUCTURE





### **Existing Open Green Space and Notable Features**

The present site in its undeveloped state is almost entirely 'green' comprising mostly agricultural land. Notable features include Darlington Golf Course, Skerningham Countryside Park (known locally as Skerningham Plantation or Skunny woods), Elly Hill Wood, Hutton Plantation, several farmsteads and residential properties dispersed within the site, the River Skerne and the heavily used network of Public Rights of Way footpaths and bridleways.

### **Field Patterns and Existing Biodiversity**

Other than Skerningham Countryside Park, much of the tree cover is restricted to field boundaries, identified above, and hedgerows with only occasional trees located within fields. In more recent times much of the land was in use for arable farming with many historic field boundaries removed to create larger fields reflecting modern farming methods. The dominant tree species is Ash with occurrences of Oak, Sycamore and Beech.



field boundary
east coast mainline
Skerningham site boundary









# 3.3 | HERITAGE ASSETS

#### **Heritage assets**

The known assets of the Skerningham Garden Village site area consists of below and above ground heritage initially identified by desk-based assessments including the Local Plan Heritage Impact Assessment, which will be confirmed by follow on site investigation as recommended.

#### **Below Ground Heritage**

The below ground heritage identified in the local Historic Environment Record (HER) includes pre-historic crop marks although as yet no known recorded assets from the Roman period. From the medieval period there are some early documentary references to a 7th Century settlement at Skerningham and also of a possible Deserted Medieval Village located near to Skerningham Manor. In addition the present Darlington Golf Course appears to follow the relics of earlier field system boundaries with some surviving areas of ridge and furrow.

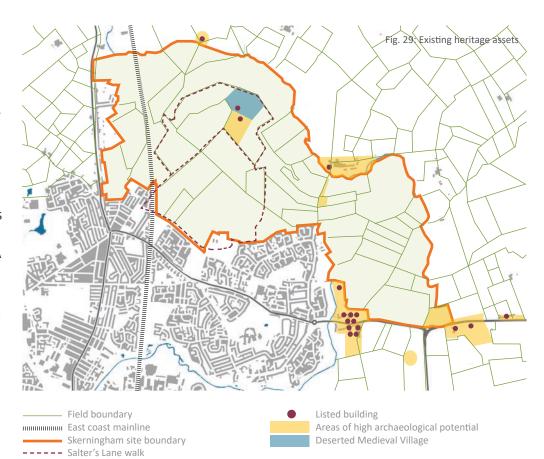
There are also recorded areas of previous quarrying near Barmpton and within the Skerningham Plantation.

#### **Above Ground Heritage**

Other notable assets include the golf course founded in 1908, originally designed by Dr Alister MacKenzie, a renowned golf course architect who went on to design three of the top 10 presently ranked best golf courses in the world at Augusta National and Cypress Point respectively in the USA and Royal Melbourne in Australia.

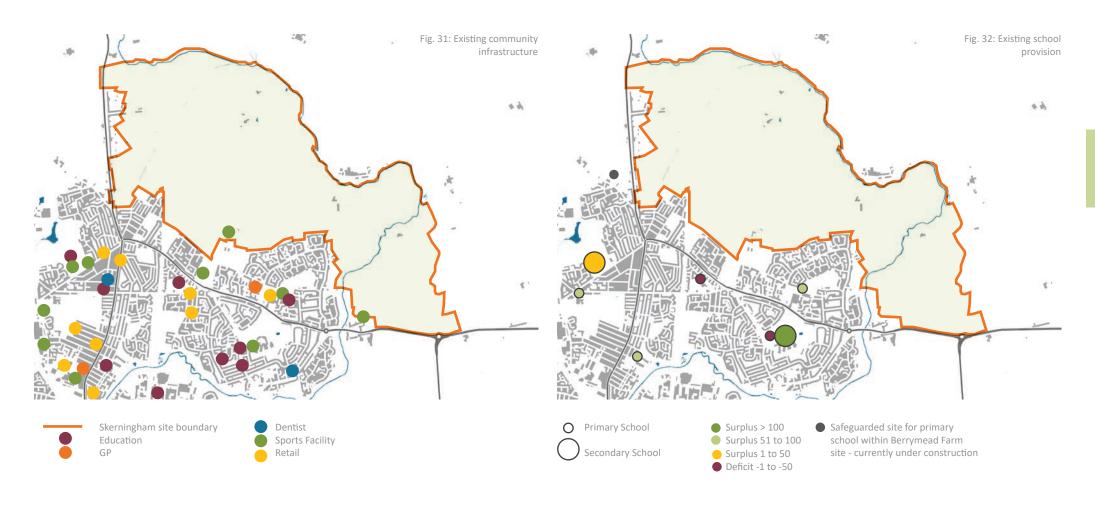
In addition, there is a surviving WW2 concrete pillbox located close to the East Coast Mainline railway – next to Salters Lane Historic Salt Route - presumably constructed as part of the strategic defence network for Britain against the threat of invasion in 1940.

There are also two Grade II listed buildings within the site — Skerningham Manor and Low Skerningham — located to the northern part of the overall site. Both are presently set within the wider current arable landscape with related woodland setting which will need to be appropriately respected in the prospective garden village masterplan.





# 3.4 | COMMUNITY INFRASTRUCTURE + SCHOOLS



#### **Existing Community Infrastructure**

There is a range of existing community and social infrastructure within 3 miles of the Skerningham site. Existing facilities are predominantly located to the south and south west in the main urban area of Darlington.

#### **Existing School Provision**

There are currently 6 primary schools within 2 miles of the Skerningham site. There are currently 2 secondary schools within 3 miles of the site.

# 3.5 | PUBLIC TRANSPORT ACCESSIBILITY

#### **Public Transport**

**Buses:** The present public transport provision has buses serving Harrowgate Hill/Beaumont Hill running along the A167 Great North Road and also through Whinfield along the A1150 Whinfield Road together with additional local services running through Whinbush Way/Barmpton Lane as well as separately looping around Glebe Rd/ Mayfair Rd. Great Burdon also has bus services running to Darlington town centre and Middlesbrough. The existing bus services allows convenient access to other regional and national destinations.

**Train:** The east coast mainline runs along the west of the site connecting neighbouring Darlington to other major cities, North and South.

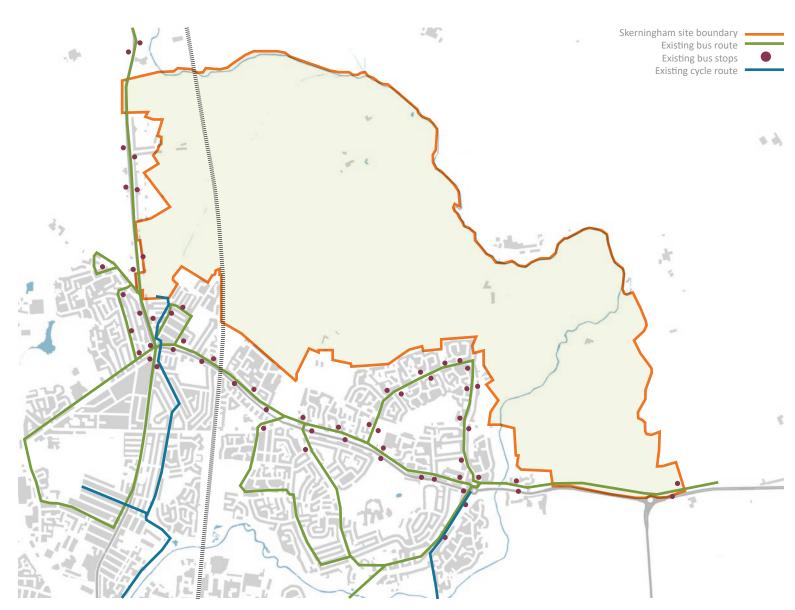
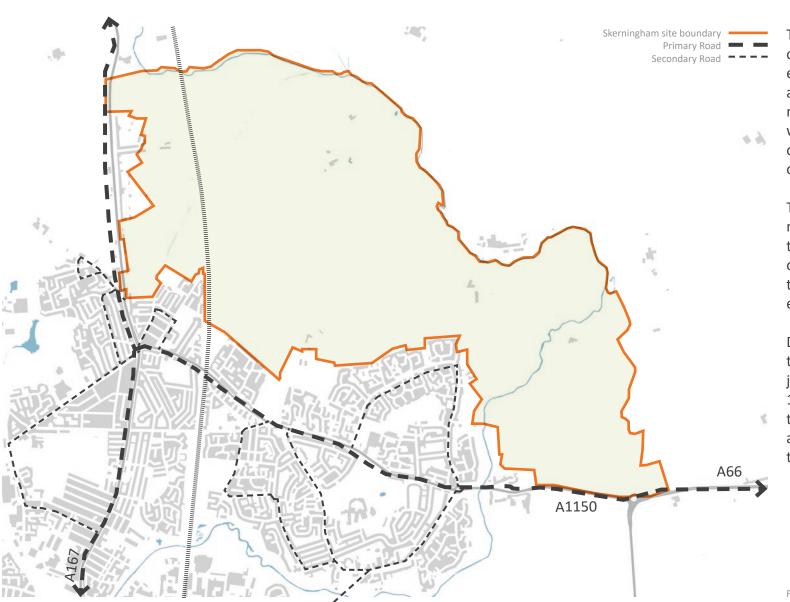


Fig. 33: Existing public transport in and around the immediate context

# 3.6 | ROAD + STREET HIERARCHY



The overall garden village site context is a logical and sustainable extension to Darlington and is accessible to the existing highway network benefiting from being within close proximity to the A1(M) on the western side and to the A66 on the eastern edge.

The existing southern highway network is however already at close to capacity which requires the focus of the street hierarchy to alleviate that without creating problems elsewhere.

Darlington is a relatively compact town with about one fifth of journeys by residents no further than 1km, nearly half less than 3km and three quarters of all journeys begin and end in the town. Darlington is a town of short journeys.

Fig. 34: Existing key roads + streets



# 4.0 | STRATEGIC TOOLKIT

- 4.1 Movement
- 4.2 Nature
- 4.3 Built Form
- 4.4 Identity
- 4.5 Public Space
- 4.6 Use
- 4.7 Homes + Buildings
- 4.8 Resources + Lifespan

# 4.1 | MOVEMENT

#### The Network

The movement network will provide a comprehensive network of routes for pedestrians, cyclists, and vehicular traffic to enable people to get from where they live to where they want to get to in the safest, most direct, and healthiest way.

- To prioritise the movement and safety of pedestrians and cyclists of all ages and abilities through to provision of **Coherent**, **Direct**, **Safe**, **Comfortable** and **Attractive routes**.
- Residential development and essential community services and schools will be located to ensure that the **20 minute walkable** (10 minutes there and 10 minutes back) neighbourhood is achieved.
- It will be a **legible and** permeable network of streets with a clear street hierarchy.

- including a network of local and tertiary streets of varying character. The aim will be to move from main and secondary streets to local and tertiary streets as quickly as possible.
- Ensure pedestrian and cycle connectivity is made to connect the site with the surrounding area to both enable local communities to also access services within Skerningham and residents of Skerningham to access those beyond the site including the Skerne Valley Park.
- 80% or more households will be within 400 metres walking distance of a bus stop served by a regular day time service (at least every 30 minutes)
- Provide appropriate level of vehicular and cycle parking but ensuring it does not dominate the built environment, public realm, or open spaces.

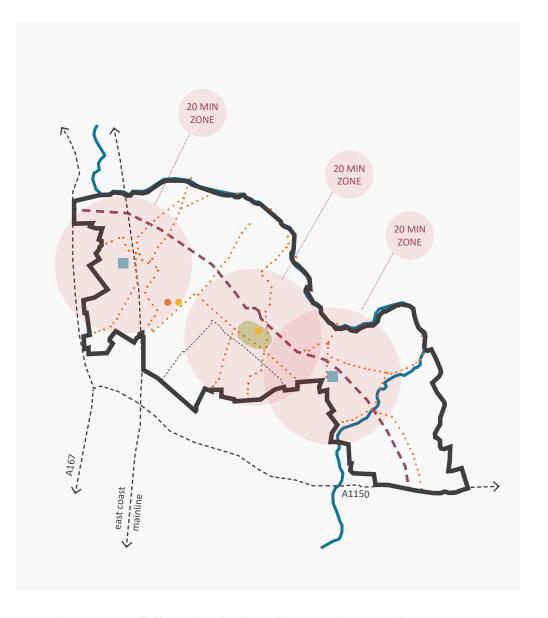
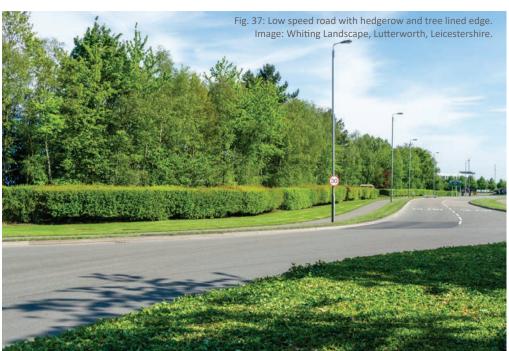


Fig. 35: Indicative 20 min walkable zones based on Skerningham Masterplan Framework





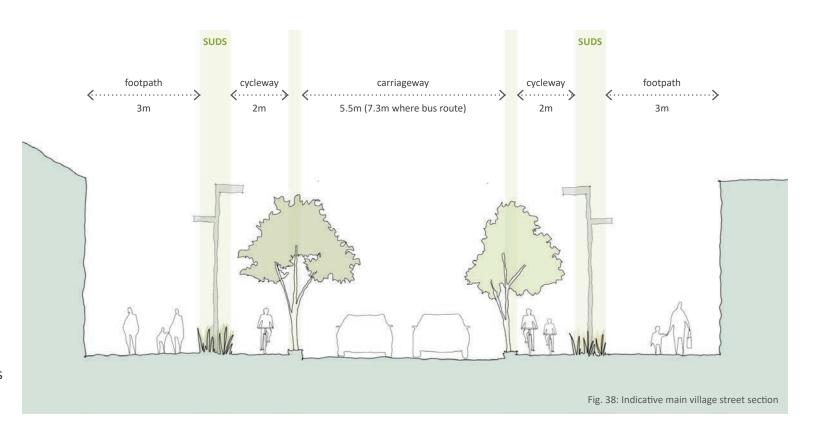


#### **Skerningham Local Distributor Road**

The Darlington Local Plan Policy H10 states that a local distributor road between the A167 and A1150 will provide vehicular access to the development. The local Plan sets out the phasing requirements for the distributor road and also states that the precise details of the road and development access points shall be agreed with the Council as part of the masterplan, infrastructure phasing plan and future planning applications for the site.

- It will be designed for **low** traffic speeds with speed limit of no more than 40mph. It will look like a road that is part of a garden village and not a high-speed bypass and must emphasise a sense of place.
- The road will be aligned to avoid existing wooded areas as much as possible. The road shall be aligned to avoid being visible from the River Skerne as much as possible. Any loss of woodland will need an appropriate on-site mitigation which must result in net gain in community woodland on site.

- Additional planting will both enhance the road corridor and provide screening of sensitive locations as appropriate.
- O Properties will face the road accessed from tree-lined service roads
- Sections of footway /cycleway may run alongside the road in certain places, but they will be well separated by distance and landscaping.
- A number of **roundabout junctions** on the Local Distributor Road will give access to the development sites and local street network.
- To maintain the sense of green connectivity there will need to be careful consideration of the locations and design at the meeting of footpath and or cycle network crossings of the Local Distributor Road. This aspect is covered in the sections below and in each of the relevant Character Area sections.



#### **Street Hierarchy**

Skerningham will have a connected network and hierarchy of routes for all modes of transport. The function of each street will depend on location with the development and the areas through which they connect. This will then influence the movement /place role and design criteria.

A replacement for Manual for Streets is currently being developed and when published later in 2023 will establish new design guidelines for all streets. Until then the following guidelines will be followed. (See also 7.3 Design Quality Coding Checklist).

There are three main street types in the movement hierarchy.

#### **01.** Main Village Streets

These are the strategic vehicular routes that link the site to wider town and surrounding areas. The Main Streets will have frontage development and vary in character to relate to specific areas such as the Village centre.

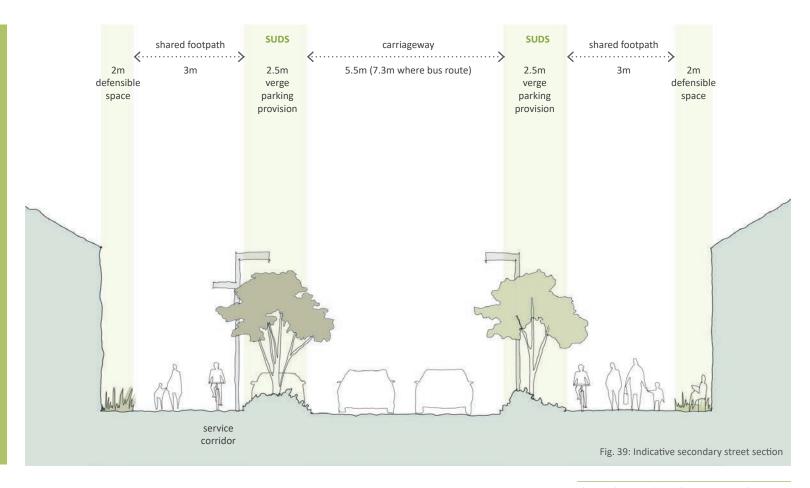
- The main village streets will be short to encourage low speeds or broken up with changes in priority/width as part of a permeable network.
- They must create a positive pedestrian/cycle environment.
- Street trees and SuDS will be included.
- There will be street lighting
- Openined parking bays will be included.

- These routes will be a maximum width of up to 7.3 metres where they are bus and key servicing routes, and consideration must be given to a maximum width generally of 5.5 metres. Manual for Streets 2 where HGVs and buses make up only a small proportion of traffic flow up to 2.5m wide lanes would be sufficient for most vehicles and would reduce carriageway width requirements, making it much easier for pedestrians to cross.
- Junctions will have tight radii corners.

#### **02. Secondary Village Streets**

Secondary Streets are mostly residential streets connecting the Main Streets.

- Clear distinction between vehicular, cycle and pedestrian space and variation in typology according to their specific
- Street trees that give the sense of an avenue and SUDs will be included.
- ◯ Speed limited to 20mph.
- Up to 5.5m wide with trees that give the sense of an avenue in a verge strip or carriageway which will enable provision for parking bays.
- Tight junction radii and footpath treatment across junction bell mouths to confirm pedestrian priority.



#### **03. Local and Tertiary Streets**

These are residential streets with managed traffic flows to prioritise active travel that provide access to homes and support active travel, social interaction and health and well being.

Lower order streets for access to small groups of clusters of homes and servicing. They can be mews courts, lanes alleyways and their final location and type will be determined through detailed design.

- The use of cul-de-sacs are to be avoided or minimised. Where cul-de-sacs are used, connectivity for pedestrians and cycles must be ensured.
- Filtered permeability throughout the network will design-out rat-running, create a low traffic environment around homes whilst still allowing pedestrian and cycle movement.
- Street trees must be incorporated, ideally in soft landscape into both typologies so as to create a strong green ambience.





#### **Public Transport**

Whilst the vision for Skerningham is that of a compact 20 minute neighbourhood with a range of services that meet most needs, access to public transport will be key to providing choice for everyday journeys beyond the immediate neighbourhood to Darlington Town centre, employment centres and schools.

Residents of Skerningham will have good public transport accessibility when homes have a public transport stop within walking distance.

A small proportion of the proposed Skerningham development can be located within walking distance of existing bus routes and stops. This may require improving the permeability of existing pedestrian routes and/or providing new routes.

However in the main to achieve good transport accessibility (all houses within 5 minutes walking distance of a bus stop) the development will require that parts of the proposed street network (Main Streets) can accommodate bus services.

#### **Design Principles:**

In order to ensure adequate potential public transport penetration, all households will be within 400 metres walking distance from a bus stop.

Some or all of the Main street network must be designed to accommodate local buses, including bus stops.

Bus shelters must incorporate green or brown roofs.

#### **Inclusive Streets**

Our streets must be for everyone providing safe and attractive places to travel, rest, play and spend time.

The pedestrian and cycle routes, the layout of public space, parks and green space need to work for all of us. They must be safe, direct, convenient, and accessible for people of all abilities whatever our age, ability, gender, race, or income.



- Streets must include infrastructure with secondary uses for play and exercise.
- Tactile paving at junctions and crossing points.
- Street furniture/ trees located so as not to impede movement.

- Footpaths/ dropped kerbs ensure ease of movement for wheelchair users or buggies.
- Adequate widths of shared footpath cycle lanes.
- Features to aid legibility, wayfaring, and ease of movement.



#### **Active Travel**

Active travel refers to non-motorised and sustainable forms of transport, primarily walking and cycling, and horse-riding in this location.

Streets and paths within
Skerningham must connect people to
places and public transport services
in the most direct way, making carfree travel more attractive, safe, and
convenient.

The aim is to make walking and cycling feel like an instinctive choice for undertaking short journeys for everyone, of all ages and capabilities.

The active travel network must be informed by 5 core principles (Coherent, Direct, Safe, Comfortable and Attractive).

Existing public paths will be protected and enhanced as appropriate and celebrated as significant historical routes e.g. Salters lane. These aspects are discussed in more detail within the Character Areas.

The routes must feel direct, logical, and understandable by all road users.

- Everyone must be able to cross the road safely, directly and without delay.
- Safe and convenient pedestrian and cycle crossings must be provided at regular intervals including informal and formal provision.
- Any signalised crossings must allow for appropriate crossing times and uncontrolled crossings main and secondary roads will be pinched to create short crossing widths.
- There will be places to sit, space to chat or play within the street.
- Pavements and cycleways will continue across side streets or there will be tight radii at junctions to ensure the pedestrian desire line is maintained.
- Private drives which frustrate pedestrian and cycle movement will be discouraged.

- Pedestrian and cycle routes must be safe, overlooked, and appropriately lit.
- Cycle routes must connect as directly as possible from the tertiary street network to key destinations both within and beyond the Skerningham Garden Village boundary (e.g. local shopping and services, secondary schools, colleges, the town centre).
- Cycle routes will complement and, in some cases, extend Darlington's (Tees Valley) strategic cycle network.
- Cycle routes will follow the line of village main and secondary roads where appropriate. In situations where cyclists are sharing the carriageway speed differences will be reduced.
- The design of the Cycle network will adopt the guidance in Local transport Note 1/20 Cycle Infrastructure Guidance,

DfT July 2020. The network will follow the guidance on Cycling Level of Service (CLoS) and Junction Assessment Tools (JAT) with a mesh density of 250m max and a deviation factor of 1.2

- Leisure cycle routes will run through open space and alongside the green/ blue infrastructure network. They are traffic free and provide safe environments for cycling for all ages and abilities.
- As pedestrian and cycle routes move from the residential areas into the open spaces up to and beyond the Local Distributor Road they will take on a more rural appearance; material such as crushed limestone will replace tarmac and there will be no streetlighting.
- The area of the village centres must be designed to be shared between pedestrians and cyclists.



Fig. 44: Shared surfaces for pedestrians and cyclists in the village centre

#### **Junctions and Crossings**

Where the pedestrian and cycle network meets the Local Distributor Road the crossings will require careful and sensitive design depending on location.

In some cases the cycle or footpath route will have changed in character as it leaves the residential area and heads towards the open space up to and beyond the Local Distributor Road.

# Vehicular Parking: Standards and Design Requirements

Encouraging active travel is not about preventing people from buying/owning cars and other vehicles. It's about usage and creating the conditions to encourage short journeys to be made on foot or on bike within and beyond the boundary of the garden village.

The design must therefore anticipate realistic levels of car parking demand, guarding against displaced and anti-social parking.

Parking within the new garden village

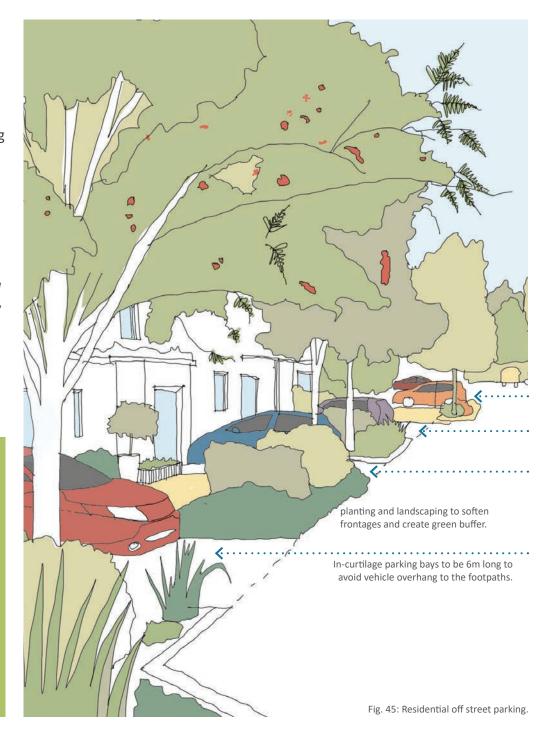
will include private dedicated parking for residential homes, public parking spaces for visitors and shared parking for residents, employees, and visitors within village centres.

The Darlington Local Plan states: Local parking standards for new development and changes of use will be set out in the Tees Valley Highway Design Guide (due to be updated), in the meantime nationally defined parking standards will be applied in the Borough.

#### **Design Principles:**

Tees Valley Standards
Normal requirements for a
dwelling are 2 spaces per
household. This includes visitor
and residents parking. In a
conventional development this
provision is expected to consist
of a garage and driveway (the
driveway must be at least 6m
in length from the back of
footpath).

Communal visitor parking 0.5 per dwelling.





#### Cycle Parking: Standards and Design Requirements

To deliver the vision for Skerningham, as a place that encourages active travel, suitable cycle parking infrastructure must be provided to allow residents to own and conveniently use cycles for everyday journeys.

#### **Design Principles:**

- Cycle parking must be designed as an essential component of the development and located in both key public spaces, outside destinations, such as schools and within private residences.
- Visitor cycle spaces must be provided separately.
- At least storage for one cycle per home where it is as easy to access as the car.

- Secure and overlooked cycle parking that is as close to (if not closer) than car parking spaces (or car drop off bays) to the entrances of schools, shops, and other services and facilities.
- O Provide scooter and cycle parking at schools. Scooters can encourage younger children to get active on the way to school.
- Ocovered cycle and scooter storage must incorporate green or brown roofs.



#### Waste, Recycling & Utilities

Services and utilities must be considered at the outset of any future design proposals of Skerningham to ensure quality of space.

- Well integrated refuse stores, recycling facilities, meter boxes, pipes, flues, and vent must be considered early in the design process and integrated into the overall scheme.
- High speed (Ultrafast gigabyte) broadband must be a feature of the development and available to all homes in order to encourage a high quality life/work balance.
- Electric Vehicle Charging points. The Local Plan (Policy IN4) already sets the requirement for every new dwelling to provide electric vehicle charging capability. In addition the policy ensures provision will be made in communal parking areas and new public facilities over 50 spaces. Further provision would be encouraged across the development where suitable.

# 4.2 | NATURE



Nature must be retained, enhanced and integrated throughout the landscape, architecture and infrastructure of the Garden Village for the benefit of existing, new residents and visitors so as to maintain a green local identity and help address global environmental issues. Solutions are likely to be interrelated and interdisciplinary so as to create a true holistic solution.

#### **More Nature**

Outcome = ensure a Biodiversity Gain of 10% for every planning application so as to be an exemplar development with more nature than prior to development and above 2022 national planning requirements.

#### **Design Principles:**

- Identify existing ecological resources and create buffer zones around these for assisted natural regeneration as advised by a qualified ecologist.
- Avoid 'greenwash' but incorporate meaningful innovative nature-supporting infrastructure as appropriate such as green roofs, architectural bird colonies, insect hotels, or reinforced grass vehicle

surfaces throughout.

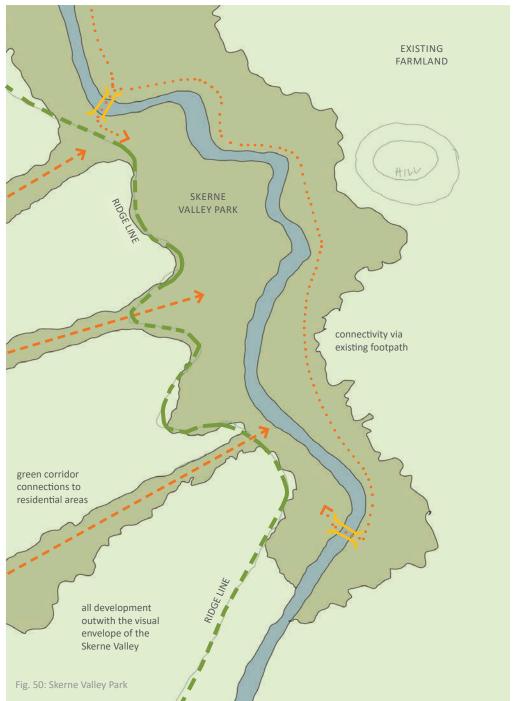
- Create as many ecological niches as possible in line with local Biodiversity Action Plan ambitions.
- Planting to be predominantely native and locally sourced wherever possible including wildflowers of local provenance and wildlife/pollinator friendly species.



#### **Better Connected Nature**

Outcome = the basis of the masterplan is a network of green infrastructure formed of a mosaic of interconnected habitats that strengthens the existing ecological resource.

- Wildlife corridors must interconnect existing ecological resources such as woodlands, watercourses, hedgerows, fence lines and wet areas so as to create a green network.
- There will be two or more primary 'ecological superhighways' that connect the existing urban centre with open countryside.
- These will be identified and designed by professional ecologists iteratively with the master-planner and landscape architect.
- Connecting corridors will be carefully designed to work with the topography, landscape character views and crossing of the Local Distributor Road.



#### **Climate Resilience**

Outcome = all solutions must be of benefit to Carbon sequestration, reduced flood risk, passive cooling or heating

- Landscape strategies must promote sequestration of atmospheric Carbon. For instance, the loss of ancient or veteran trees must only be permitted where there are wholly exceptional reasons.
- Management and maintenance operations must be reviewed in terms of minimising the use of energy and chemicals.
- The shading and cooling benefits of vegetation must be exploited on both a micro level to reduce unwanted solar gain

- and on a macro level to reduce any potential heat island effects.
- Sustainable Urban Drainage is mandatory and must be designed to incorporate stepped swales as part of an approach that maximises biodiversity.
- Areas prone to flooding must be embraced with landform and wetland habitats created that hold water and help sequester Carbon such as wetlands.

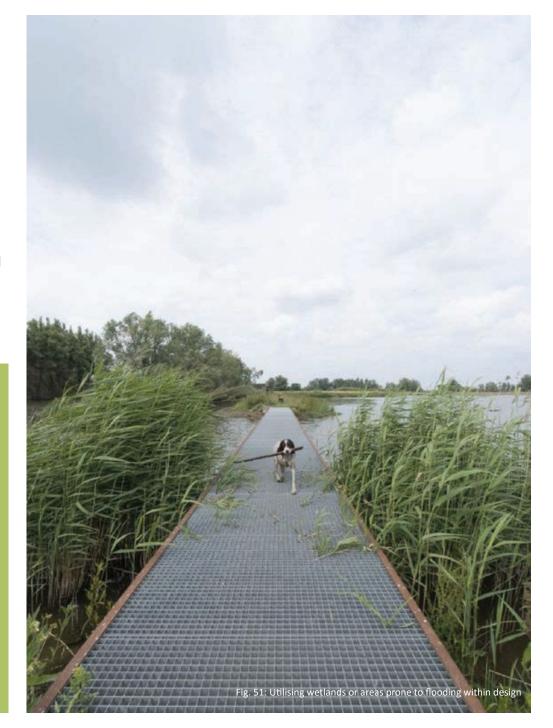


Fig. 52: Existing Garden Community, Chelmsford Image: Countryside Zest & Homes England



#### **Living in Nature**

Outcome = people's lives to be within an environment that gives the perception of being immersed in nature.

- All scales of public open spaces and streets must be designed so as to promote nature, furthermore the masterplan must ensure that natural features are inviting for public access so as to promote health and well-being without compromising biodiversity.
- Existing and proposed footpaths, cycle routes, bridleways and Public Rights of Way must be safeguarded within green corridors that work for wildlife.

- The experience on green routes must be that of being within nature, be it an enclosed country lane, broad sweep of meadow, riverside or woodland experience.
- Green infrastructure such as SUDs and other interventions that perform ecosystem services must be accessible for public use and enjoyment wherever
- Every street must enjoy views of existing or meaningful proposed Green or Blue

- Infrastructure. No places are to feel 'landlocked'.
- Ensure that new community facilities such as schools, GP surgeries and shops are connected to nature and users have opportunities for instance to study in the landscape, undertake social prescriptions or just relax under a tree.
- Lawns and amenity grass must be species rich and not require artificial pesticides and herbicides. Reduced mowing regimes and areas of long grass

- must be considered wherever possible to both promote biodiversity and reduce energy use.
- External lighting must be cognisant of nature – particularly bats.
- Agricultural stewardship must promote nature, soil health and include features such as nature strips besides hedges and drainage ditches, depressions for ponds and buffer zones to prevent nutrient ingress into waterways.

## 4.3 | BUILT FORM

Fig. 53: Existing Garden Community Image: *The Water Garden Village* by AR Design Studio



The National Design Guide defines the 'built form' of an area as the 'three-dimensional pattern or arrangement of development blocks, streets, buildings, and open spaces' that make up any built-up area or development. It says that a well-designed place has a coherent form of development. For built form this means: a compact form of development and appropriate building types and forms.

#### **Density Overview**

The ambitions for the new Skerningham garden village include achieving a built form that is both locally distinctive and rooted in an enhanced landscape setting making the most of what is presently there. The 'as found' edge condition for the most part provides only limited opportunities to directly extend existing built form patterns and where appropriate complete development perimeter blocks.

Instead, the new built form will need to focus on structural responses that support the creation of 20 minute. walkable neighbourhoods which implies relatively dense and tighter development patterns consistent with a typical village configuration as seen in local examples in and around Darlington.



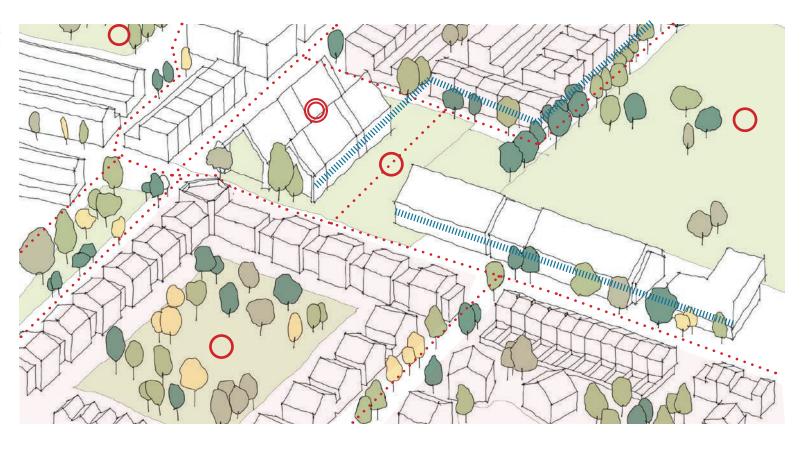
Fig. 54: Illustrative sketch demonstrating Kevin Lynch's 5 principles

#### **Urban Design Principles**

Developers are encouraged to apply the principles of Kevin Lynch, an influential American Urban Planner, who wrote 'The Image of the City'. He recommended the 'Lynchian Analysis', using the inclusion of paths, nodes, districts, edges, landmarks and additionally gateways (see illustration). These are important urban design tools that help us define and create these special areas.

paths,
nodes,
districts,
lilling edges,
landmarks,

The celebrated British urban designer Gordon Cullen highlighted in his book, 'Townscape', the way our local environment is structured in terms of the built form and the external spaces in between.



### **Design Principles:**

- Openine a coherent design strategy for the area as a whole.
- Consider all buildings as important elements and ensure that they work as a whole, in terms of alignment, massing and architectural approach.
- The clear aspiration of the Council for the choice of building uses, forms and

materials to help create a sense of uniqueness in the final development – indicating that it is located in Darlington and nowhere else – and stands out clearly from other developments in the northeast through a unique mix of architecture, layout including public spaces and choice of materials palette.

Development on the Skerningham site must reflect and celebrate local themes in terms of materials, colours, form and style, not in a pastiche manner, but in a modern interpretation of the local vernacular, making development on the site distinctive and unique. This project will have failed if it does not achieve that goal.



Fig. 55: Low density

#### **Residential Density**

A series of village scale new neighbourhoods with, where appropriate, slightly less dense supporting 'hamlets' or building clusters like a traditional farmstead or 'manor' house with traditional outbuildings could be the basis for the strategic masterplan.

This requires new ideas about creating a great place as an evolution of the 20th Century garden villages precedents which are consistent with the local context. It most definitely must not be solely a series of sub-urban scale phased housing estates with little or no sense of the existing context or relationship with each other which all too often characterises much of the residential

development of the past few decades.

The National Design Guide advocates achieving a coherent and recognisable pattern of development using the available land efficiently by building at optimal densities. However, it is important to remember that density is an outcome resulting from intensity of uses and proximity of services. Density of people is therefore more important than density of houses.

The built form then must be focussed on bringing people together to support local services and facilities whilst encouraging walking for short journeys and cycling to these local destinations with related street

layouts responding to the wider context.

This requires a strategic design process to determine the development built form for each of the varied character areas that make up the Skerningham Garden Village.

This must take account for each site, their context, and the respective opportunities they present; the proposed identity and character for the development in the wider place; the lifestyles of occupants and other users; and resource efficiency, climate change mitigation and adaptation.

Additionally the evolving built form must be looking to establish an

appropriate relationship with the varied pattern, sizes, and proportions of existing streets in the local area together with the adjacent greenspace that characterises the present north-eastern edges of this part of Darlington.

Within each character area the new built development must be looking to create recognisably successful 'real' streets which are characterised by buildings facing onto the street to provide visual interest, passive overlooking and active frontages at ground level. This requires establishing a clear relationship between building fronts and backs together with turning corners and avoiding excessive lengths of rear garden inactive boundaries abutting streets.

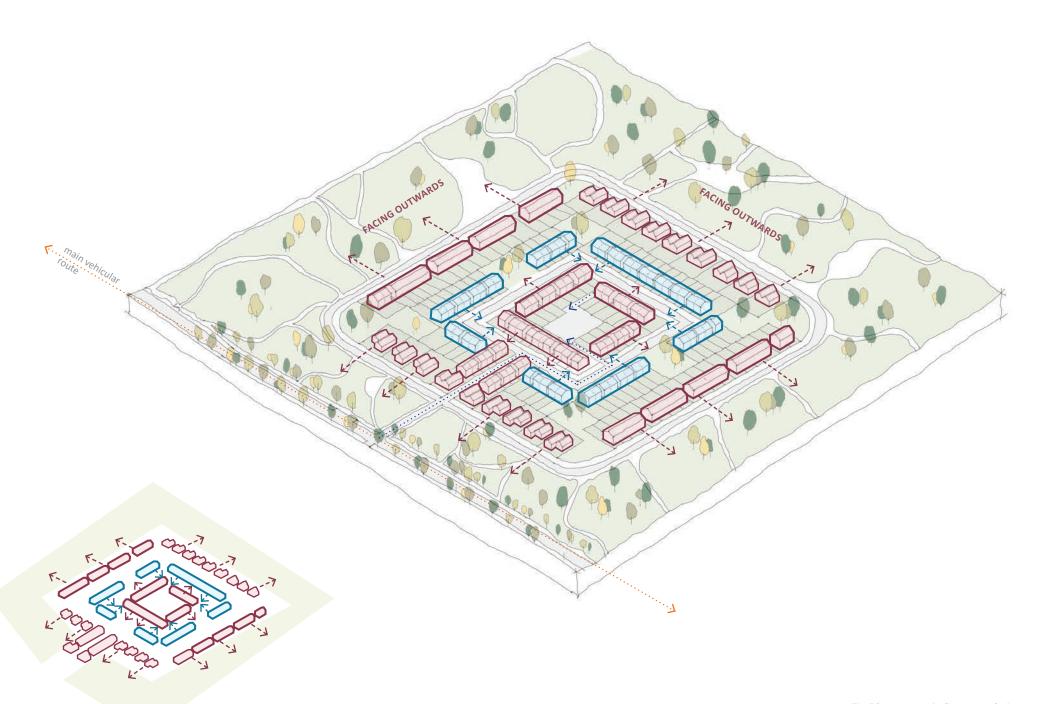


Fig. 56: axonometric diagram exploring density and hamlet style development

#### **Density for other uses**

The National Design Guide also highlights the key importance of creating destinations as they provide opportunities for people to meet, share experiences and come together as a community. By bringing existing and new together, where possible, these destinations become a place for everyone.

This is particularly relevant for realising the ambition for 20min walkable neighbourhoods in Skerningham garden village since these destinations need to be readily at hand by clustering key uses; including high quality public spaces; increasing densities so more people live and work around them; and making sure they have active edges. This also means that a range of destinations of varying scale and type must be provided with the aim that each of the character areas must have at least one walkable identified community focused place. That could be a village green or public square with some related communal uses on the perimeter or a street with a 'parade' or group of non-residential uses to provide a distinct destination.





#### **Design Principles:**

- Composition: a façade needs to relate to both the external context and the arrangement of internal spaces. Windows need to be composed to reflect the daylight needs and hierarchy of these spaces.
- Articulation: Façades can benefit from depth and articulation. This may be achieved with architectural features such as setbacks, balconies, porches and bays. These set forward or back from the main facade that relates to the building line.
- Material + Detail: The details of design combine to enhance the building. The choice of symmetry or conscious asymmetry, the use of colour, quality materials and detailing preferably drawn from the surrounding context. A degree of complexity in the design of façades will ensure that buildings are attractive from a

distance and close-up.

- Windows: The NMDC suggest elevations work best with a wall to window ratio of 15-35%. The proportion and design of windows can shape the facade based on whether they are horizontal or vertical, and the depth of the reveals. Deep window and door reveals visually suggest a robustness to a façade and are recommended.
- Building Lines: Spurious changes in building lines on any street must be avoided. Any change in addressing the predominant building line must have a sound reason or purpose.
- Developments must aim for the village/hamlet cores to be identified by an increase in overall building heights (reinforced by tall features if viable).





#### **Scapes and Fringes**

Townscape and farmscape are controlled and managed, and wildscape is nature doing what it does best, responding to climate and environmental conditions.

"Fringes" are the transitional areas between the "scapes" and often the responsibility for upkeep and maintenance of these zones is unclear which results in abuse of the plant & insect life and watercourses, through such things as fly-tipping and deliberate spillage and disposal of harmful liquids. Ownership

responsibilities need to be defined in the masterplan and monitored.

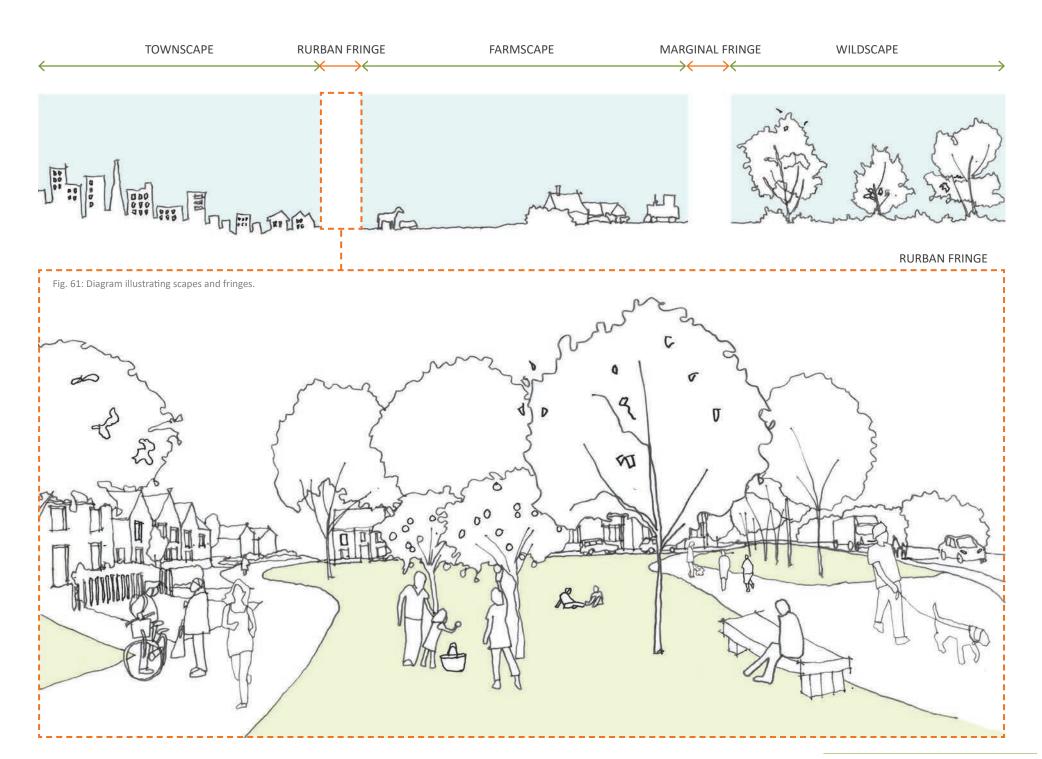
The management of fringe areas becomes important when, as suggested elsewhere in this Design Code, the new garden village maximises its rural credentials by being composed of groupings of "hamlets". These must not front cross-site routes with back garden fences, but rather present prime frontages pointing outwards from the nucleus of the hamlet with managed transitional planted areas

extending from the formal front gardens into the more informal, naturally formed cross-site pedestrian, car and cycle networks, as appropriate.

Ill-managed "fringe" areas between the "scape" zones will interfere with the successful operation of wildlife corridors and detract from the attractiveness of the informal and formal network of routes proposed across the greater site."

Fig. 59: (top left) Housing orientated towards landscape. Image: Studio Partington - Stephenson Quarter, Osbaldwick

Fig. 60: (top right ) Space between development and rural context. Image: Alison Brooks Architects - Meadow Housing



# 4.4 | IDENTITY

#### Identity

The clear aspiration of the Council is for the choice of building uses, forms and materials to help create a sense of uniqueness in the final development – indicating that it is located in Darlington and nowhere else – and stands out clearly from other developments in the northeast through a unique mix of architecture, layout - including public spaces - and palette of materials. The National Design Guide (NDG) highlights that it is a key part of successful places that they are attractive and distinctive because having a positive identity is what attracts people to a place, persuades them to stay and binds them together as a community.

Development on the Skerningham Garden Village site must reflect and celebrate local themes in terms of materials, colours, form and style, not in a pastiche manner, but in a modern interpretation of the local vernacular, making development on the site distinctive and unique. This project will have failed if it does not achieve that goal.

The architectural solutions developed for this site must show strong links to the local materials and building forms.

This DOES NOT mean slavishly copying and replicating "historic" building forms. This will inevitably look wrong and be in danger of being a grotesque pastiche of the past. Consider a design philosophy approach, such as:

- + Replicating traditional forms but constructed from overtly modern materials, or
- + Using traditional materials/colours but in a non-traditional building form, or
- + A creative and intelligent mix of both of the above.



#### Contextuality

Firstly, any new development must respond to and relate to its surroundings. This is called "context" and historically contextual architecture evolved based upon the locally available materials, microclimate, and skillsets of the local populace. As the mass production of standardised construction materials developed, along with affordable transportation systems, these new materials infiltrated local development and "standardised" the look of the end product, and in the process diluted the unique local architectural character and identity of developments.

The main driver for successfully achieving a distinct identity for the new development will be in response to the local context which is highlighted in the analysis for each of the 10 distinct character areas that make up the Skerningham garden village area.

The existing landscape and topographical features of the site are to be retained, and the built form must respect this. For example, existing site levels will be adhered to and not flattened to fit standard building types. Hedging and existing boundaries are to be intertwined into the design. Likewise, the existing buildings on the site – notably







Skerningham Manor - will provide focal points and be integral to the masterplan celebrating the old alongside the new. It is important that one can distinguish what is old and what is new and gives an honesty to the scheme.

The identity of the proposed Skerningham Garden Village will come not just from the form and appearance of the buildings and spaces but also from the way that it is planned to sit within its natural environment and the mix of uses of its buildings. This includes the way that it responds to the character of the local area and the design of its buildings and public spaces.

This is an edge of town rural site gently rising from the north-eastern edge of Darlington and to an extent is visible from long views. The opportunity here is to concentrate the development on the site into discrete groupings, and leave substantial space between groupings of buildings, hence being referred to as clusters of hamlets.

#### **Design Principles:**

O Views of existing or proposed green infrastructure to be enjoyed at every street end and turn.

- Make use of local materials and detailing.
- Incorporate legibility and wayfinding strategies.
- Schemes must be guided by a strong masterplan.
- Encourage the incorporation of public art in the design of buildings and spaces as well as free-standing pieces.
- Street design: Create a unified pallet of materials and street furniture to be used in different area types.

- Use of different street tree species to create distinct identities for different streets
- Vista ends: Use taller buildings and architectural expression on buildings that close vistas along a street or square.
- Use colour, materials or specific details to create a distinctive character for different neighbourhoods.
- Buildings must satisfactorily: meet the ground turn the corner touch the sky.

# 4.5 | PUBLIC SPACE

#### **Public Space**

Public spaces are streets, squares, and other spaces open to all and the quality of the spaces between buildings is as important as the buildings themselves. Skerningham Garden Village will include well-located public spaces that support a wide variety of activities and encourage social interaction, to promote health, well-being, activity, social and civic inclusion. Spaces must be predominantely green in character.

The streets and roads of the Garden Village will make up a large proportion of all public space and how they are designed will have a significant impact on people's lives.

Section 4.1 Movement defines the street types and their functions to be included in Skerningham. These street types each have to balance the dual function of place and movement. Their design will vary both by their position in the street hierarchy and the neighbourhood they pass through.

#### **Social Interaction**

Streets and other public spaces such as public squares have an important social function to bring people together and to act as a focus for community life. Parks and other green spaces described in the nature section also contribute towards social interaction.

Special consideration needs to be given to safety, multi-functional and generational spaces and reducing the risk of crime.

#### **Meeting Places**

The Skerningham Garden Village neighbourhoods will include public spaces as focal points at the heart of the community. They will include squares, market places and village greens. All of these spaces will provide informal settings for activities such as meeting, resting, playing, holding events and parking.

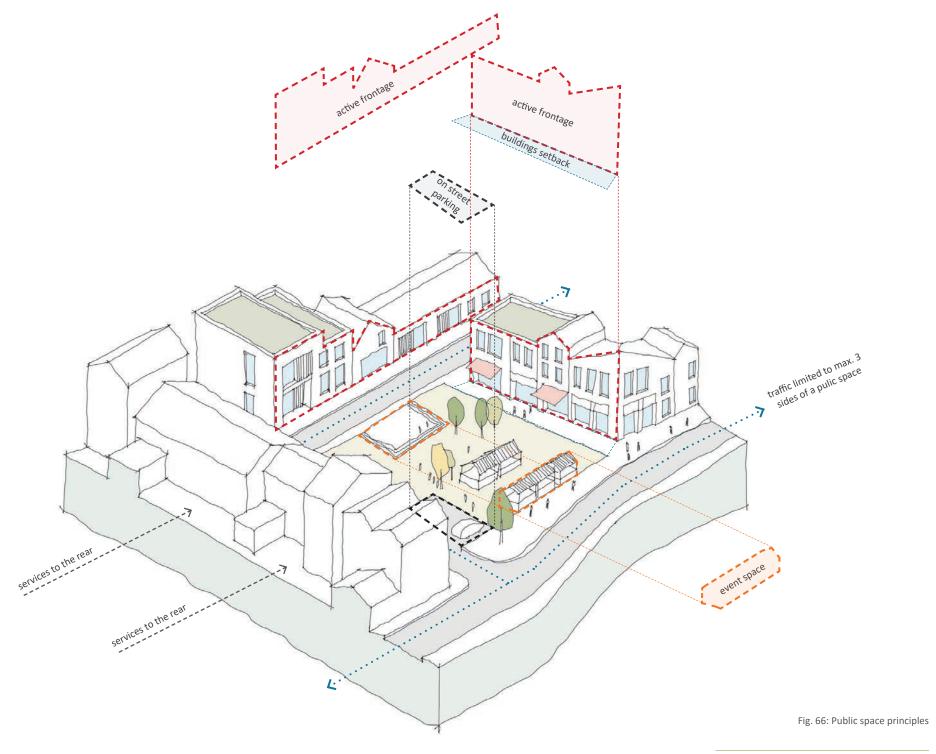
#### **Design Principles:**

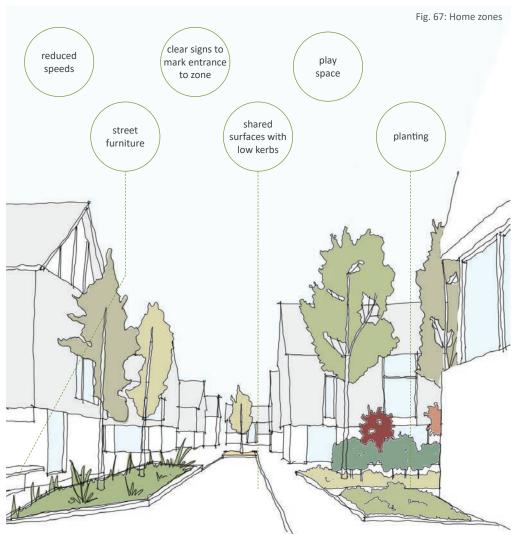
Spaces must be playable and incorporate nudges that promote physical activity.

- Scale: Public spaces need to be appropriately sized and proportioned. In new development, it is good practice to identify suitable precedents to inform their dimensions.
- Enclosure: The size of a square is informed by the scale of surrounding buildings. Typically, the enclosure ratio of the short dimension of a square is at least twice the height of the buildings.
- Public uses: Squares may act as a focus for public uses such as educational buildings, churches, pubs, restaurants and cafes.

  They are also gathering space for uses that draw large numbers of people.
- Events: Facilities can be provided for various types of event, ranging from outdoor stages and tiered seating to market stalls, or power supply and lighting.
- Traffic: Squares can accommodate some local traffic around their edge, ideally not on all four sides.

- Frontage: Buildings can frame a square, take their main access from it and provide a continuous building line around it.
- Active frontage: Active frontages need to be provided around a public square, preferably at least two sides of it.
- **Setbacks:** Buildings will normally be positioned at the back of pavement around the square.
- Servicing: Deliveries may be from the rear of properties or from the square itself with provision being made for deliveries.
- On-street parking: On-street parking may be accommodated either permanently or when not being used for other activities.
- Green infrastructure: Trees may be provided within squares. The type of trees and their position will depend on the function of the square, so as not to compromise the flexibility of the space.







#### **Home zones**

Home zone principles can be applied on local streets. They are defined in guidance as residential streets where 'people and vehicles share the whole of the street space safely and on equal terms, where quality of life takes precedence over ease of traffic movement'. Vehicle speeds are reduced to walking pace. They can form part of the street hierarchy in the new development.

#### **Security and Public Space**

Reducing crime has a significant impact on building strong communities and ensuring the long-term sustainability of the Garden Village. The increased threat of terrorism also needs to be considered in the design of the public spaces. Neighbourhoods need to be designed to make all people feel safe and reduce the incidence of crime in accordance with the recommendations of **Secured by Design** (www.securedbydesign.com/guidance/design-guides).



#### **Sustainable Places**

Sustainable places include a mix of uses that support everyday activities including space to live work and play

The principal features of a successful garden village as envisaged by the TCPA are to be:

A holistically planned new settlement which enhances the natural environment and offers high-quality affordable housing and locally accessible work in beautiful, healthy and sociable communities.

So, this is not just about housing development. Its about creating the mix of support services that make a community work and to provide employment within the development for those who wish to work locally i.e. a wide range of local jobs in the Garden Village within easy commuting distance of homes.

Landscape, nature and open space is a fundamental driver to the design response in order for Skerningham to become a successful Garden Village.

#### Intensification

This is about making more efficient use of land. As a design principle the Council are seeking compact higher density residential areas surrounded by generous amounts of Public Open Space.

This concept of creating smaller, more densely developed hamlets, with greater public open space provision was supported by those involved in the Public Engagement process.

#### Mix

A correct balance of uses will help increase the amount of activity in an area throughout the day, reduce overall travel, encourage sustainable travel and support shops and services with a critical mass of people. This will contribute to the creation of a sustainable and successful place.

#### Housing

Ensure the scheme provides a varied mix of housing tenures and types. Successful neighbourhoods contain a rich mix of people, including families and the elderly, young people and students, people with physical disabilities and those with mental health needs. This, in turn, requires a variety of housing in terms of tenure, type and construction.

#### **Schools**

There are specific requirements stated in the local plan with delivery triggers clearly identified, relating to numbers of dwellings occupied at any given time.

Schools and nurseries comprise an important part of the community facilities serving an area. They can provide a focus for community life and incorporate important facilities beyond educational uses. They can also create activity that supports local shops and other services.

Schools need to be located to be as accessible as possible to the communities which they serve and to provide maximum support to local shops and services. There needs to be sufficient provision to serve local need where appropriate.



Fig. 70: Mix of housing types and tenures Image: Proctor and Matthews Architects - Riverside Sunderland

#### **Community Facilities**

Schemes need to exhibit due consideration of:

**Cultural and community facilities:** Village halls, community hubs and other cultural facilities.

**Local shops:** The design code needs to provide guidance for the design of and access to local shopping facilities.

**Pubs/cafés:** Local shops can include cafés and other food and beverage uses where people can meet and, increasingly, work.

Medical facilities: All areas need medical facilities, including doctor's surgeries, district nurses, dentists and chemists. GP's mostly work in group practices in health centres, so only the largest schemes will be required to include them. Health facilities need to be in accessible locations at the heart of a community and planned in cooperation with relevant health and care organisations.

Places of worship: New buildings for religious worship are an important community function as places of congregation and community and need to be integrated into new development.

Home-working hubs: Home-working employees can support local facilities and there may also be scope to provide facilities to support home workers. Hubs include meeting spaces, shared resources such as printers, and even a delivery address

## **Design Principles:**

- Sustainable places include a mix of uses that support everyday activities, including to live, work and play.
- A mix of uses including local services and facilities to support daily life.
- An integrated mix of housing tenures and types to suit people at all stages of life.
- Well-integrated housing and other facilities that are designed to be tenure neutral and socially inclusive.

- The Design Code seeks to facilitate a mix of uses that reflects local needs and support community life.
- Co-locating higher density housing with shops, services and public transport nodes.
- Provide substantial, accessible, useable green/public spaces rather than multiple small strips and verges.
- Ideally people need to be able to meet most of their day to day needs within a walkable radius of their home.

# 4.7 | HOMES & BUILDINGS

## **Building Design Ethos**

The design of the buildings must be contextual and take influence from the local vernacular represented in a contemporary way. Building on the past and combining this with current best practice and sustainable architecture will help create a distinctive development.

Many schemes have the ambition of being exemplar from the outside however this ambition can be watered down during the design, procurement and building process and it is important the principles of the scheme as being exemplar is engrained into the project and all involved have this collective buy-in. Objectives and quantifiable exemplar outcomes are to be identify early on and assessed throughout the process in order for the aspirations to become reality.

The built form must consider the existing features and topology of the site and have design solutions that work with the existing constraints and not use standard house types that require the flattening of the site.

## **Housing Quality**

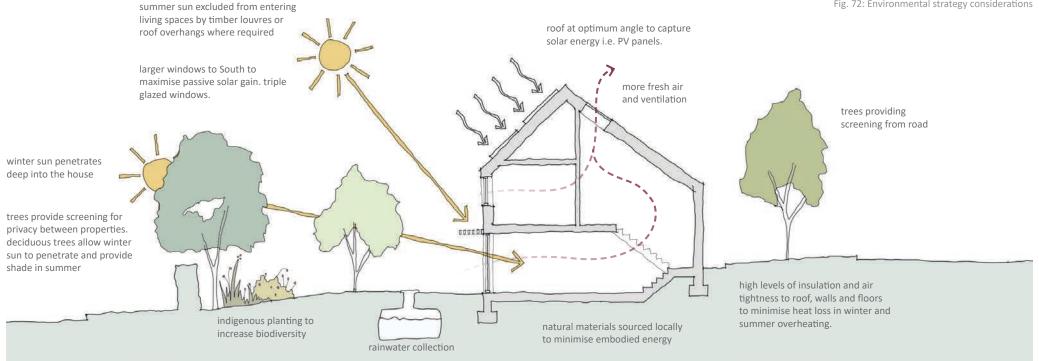
Successful residential design can be aided by thoroughly understanding the distinctiveness of the local area. Some of the key considerations are highlighted within the Darlington Local Plan and section 2.0 Baseline Analysis. Using these studies to inform the design will help to develop high quality, contemporary design grounded in the vernacular giving both a sense of renewal and belonging.

Poorly executed pastiche version of the traditional must be avoided as is a pick and mix of different architectural styles or periods.

## **Form of Buildings**

Building designs should be based on compact, simple forms which draw from the Darlington vernacular and are a contemporary interpretation of the historic designs. The form, scale and layout are to contribute to the sense of place and help create a community feel. Ornamental add ons must be avoided and any 'addition' must be integral to the overall design, contributing to the character and distinctness of the place.





## **Building orientation – first principles**

The orientation and position of the dwelling within their site is crucial for place making but also for the first principles of sustainable design making the maximum of the South facing orientation for passive solar heating whilst also considering overheating.

## **Internal layout: Space Standards.**

The principles of the Garden Village aimed to provide spacious and well-planned houses. This must be no different in its aims. To provide comfort, enhance standard of living and well-being all dwellings in the Garden village must have a minimum space standard.

# **Design Principles:**

As a base level these must be in line with the National Minimum Space Standards by the RIBA (Royal Institute of British area and the floor to ceiling height should be a minimum of 2.5/2.6m on the principal floor.

home must be integral to the layout of all houses to enable flexibility and future proofing for the occupants and promote a sustainable work/life balance.

# Immediate External Space – bin store, bike store, renewables such as PVs, ASHP

So often forgotten or considered too late in the design process are storage, waste, servicing and utilities.

## **Design Principles:**

These areas are to be integral into the initial design and carefully considered for functionality but also to contribute to the house design and the wider street scene and not detract from it. Clutter is to be avoided on the façade and in the immediate external area of the house. Renewables such as ASHP and PV which have a valuable contribution to efficiency of the homes must not appear to be an add on.



# **Materials and Detailing**

Materials must be carefully considered to work with the building form and the local area. These can be traditional or modern materials but must be a simple high-quality palette of materials that is well crafted. Simple detailing is to be utilised with high quality materials.

Embodied carbon is to be taken into consideration for material choice as well as it's durability, appearance, and maintenance strategy overtime.

The junctions between materials are to be carefully considered and there must be a simple hierarchy. Simple forms will aid in this rather than a complex shape.

More sustainable window materials than UPVC are encouraged. Timber cladding can be a great addition to a housing development however detailing, weathering and ventilation need to be carefully considered.







Fig. 77: (left) colour palette of neutral and muted tones. (right) Material palette to reflect and remain sensitive to existing local materiality and context.





















Fig. 78: (right) decorative brickwork: using traditional materials with contemporary detailing to add architectural interest and depth to a facade. Image sources (left to right): 1. MawsonKerr Architects. 2.,3., and 4. Proctor Matthews Architects.

## **Corner buildings**

Corner buildings must have elevations that face the 'street' on both sides. These are to be considered primary façades and active frontages are to be used.

The house is to actively turn the corner with the use of entrances, windows and architectural cues to create a welcoming frontage. see Fig.80. Contrived or pastiche architectural features are to be avoided. The corner buildings must be tailored to the context in which they sit making use of views, sightlines and where appropriate the creation of landmarks.

## **Accessibility:**

45% of homes are to meet building regulation M4(2), "accessible and adaptable dwellings", and 9% of new housing will meet building regulation M4(3), "wheelchair user dwellings". As a minimum, the new Garden village is to meet this benchmark.



#### **Daylight + Windows**

To promote good daylighting and thereby improve quality of life and reduce the need for energy to light the home the following must be a minimum. The daylight factor is a comparison of the natural light levels within a room and the natural light levels in an unshaded location outside and the working plane is a nominal surface positioned 0.85m above the floor.

Skerningham Garden Village would aim for an average daylight factor of

at least 2% for kitchens, average daylight factor of at least 1.5% in living rooms, dining rooms and study. At least 80% of the working plane in these rooms receives natural light.

Further information on natural lighting can be found in BS 8206-2:2008 Lighting for Buildings – Part 2: Code of practice for daylighting.

#### **Designing for Climate Resilience**

All dwellings must be substantially higher in standard than building regulations.

To only aim for building regulations means that the dwellings are only just legally acceptable. this is not good enough for this aspirational development.

As a minimum the development must adhere to the RIBA Climate Challenge 2030 and must hit the targets corresponding to the years 2020 and 2025. To be truly exemplar as a Garden Village development it must strive to showcase the very best in design and construction.

Modern Methods of Construction (MMC) is to be used to aid in quality assurance and consistent performance of the dwellings.

A percentage of the dwellings will be showcasing Certified Passivhaus standards the exemplar in low energy standards with a larger percentage utilising the Low Energy PH standard which is easier to attain and a substantial step up from the building regulations.



# 4.8 | RESOURCES + LIFESPAN

#### **Resource efficiency**

Improving resource efficiency can produce many benefits such as cost savings, reducing environmental impact and support the circular economy.

Doing more with less is the aim by:

- + Using fewer materials
- + Optimising the use of materials
- + Prevent waste
- + Using material that are reclaimed or that have a higher recycled content.
- + Reduction of water usage

# Whole Life-Cycle Carbon

Whole Life-Cycle Carbon (WLC) emissions are the carbon emissions resulting from the materials, construction and the use of a building over its entire life, including its demolition and disposal.

WLC must be considered throughout the development and as part of the use of resources and the lifespan of buildings.

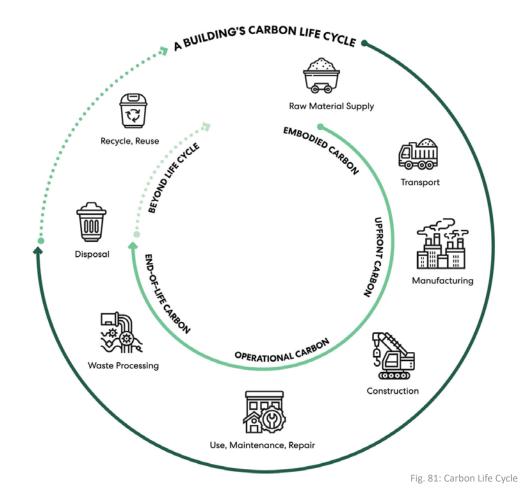
LETI (London Energy Transformation Initiative) has outlined Whole Life-Cycle Carbon as:

#### Reduce embodied carbon

- + Use Low impact materials
- + Design for disassembly
- + Use less materials
- + Use local materials
- + Use for longer & design for flexibility

## **Operational Carbon**

- + Optimise form, massing and fabric
- + Design for orientation
- + Provide solar shading
- + Use natural ventilation
- + Use natural daylighting
- + Use Heat Recovery Ventilation



# Well designed places, buildings + spaces

Well-designed places, buildings and spaces are:

- + designed and planned for **long-term stewardship** by landowners, communities and local authorities from the earliest stages;
- + robust, easy to use and look after, and enable their users to establish a sense of ownership and belonging, ensuring places and buildings age gracefully; That means thinking about these issues as part of the design process, not as an afterthought.
- + adaptable to their users' changing needs and evolving technologies; and
- + well-managed and maintained by their users, owners, landlords and public agencies.

#### **Design Principles**

- From 2025 no new homes are to connect to the gas grid.
- Make all new homes suitable for **low-carbon heating**.
- All new homes must deliver levels of energy efficiency as soon as possible and by 2025 at the latest, consistent with a space heat demand of 15-20 kWh/m2 /yr. Space heat demand of 15-20 kWh/m2 /yr is moving close to the Passivhaus Standard. In order to have all houses built to this standard by 2025 an incremental percentage must be built to this standard each year to 2025 to increase skills in the workforce, knowledge and best practice.
- Overheating risk in newbuild homes to be considered. Orientation of buildings and existing solar shading must be a primary solution rather than an over reduction of window sizes

- as internal daylight factors need to also be considered.
- Improve focus on reducing the whole life-cycle carbon impact of new homes, including embodied and sequestered carbon. RIBA 2030 Climate Challenge standards must be aimed for. Net Zero Carbon using the UK Net Zero Carbon Building Standard is to be implemented.
- Improve water efficiency performance in homes. RIBA 2030 Climate Challenge standards must be aimed for.
- Alongside continued funding for flood defences, strengthen flood resilience measures at property and community level. This needs to be considered from the start of the masterplan.
- The development must enable **sustainable travel**, which must be a primary

consideration from the beginning of the planning process. Increase in cycle and pedestrian connections within the development and to its neighbours. Pedestrian, cycle, vehicle hierarchy.

- Green infrastructure needs to be considered from the offset and implemented in the first phase
- Long term stewardship must be organised and implemented to create a development that is sustainable in the long term.
- In line with the Garden
  City Standards for the 21st
  Century (guide 4) a net zero
  energy strategy needs to be
  implemented and incorporated
  in the masterplan. This needs to
  be a whole system approach and
  an exemplar for the region.



# 5.0 CHARACTER AREAS

- **5.0 Character Areas Introduction**
- 5.1 Beaumont Hill
- **5.2 Skerningham Woods**
- **5.3 Skerningham Lane West**
- 5.4 Golfcourse (The Fairways)
- 5.5 Manor House View
- 5.6 Skerningham Lane East
- **5.7 Quarry Woods**
- **5.8 Barmpton Forest**
- 5.9 Barmpton Lane
- **5.10 Bishopton Lane**

# 5.0 | CHARACTER AREAS INTRODUCTION

#### Introduction

Skerningham is a large development site of which only between 45% and 55% is likely to be developed.

To assist in the analysis of the developable areas of the site, and to safeguard the non-developable areas, the site has been sub-divided into 10 Character Areas (see adjacent Character Area Map).

The character areas were determined by (but not exclusively by) a combination of the following considerations:

- **01. Topography:** What is the landform and land-use (i.e. agricultural, woodland, disused quarry and water courses) and what opportunities are offered for natural boundaries and in developing and enhancing footpaths, cycle paths and bridleways across the site?
- **02.** Structural planting/landscape: Which areas can be preserved, enhanced and/or used to separate

development parcels and allow hamlets to look outwards into the green infrastructure so as to not turn their back gardens outwards to the open space.

- **03.** Existing public routes across the site: How can existing routes, of a variety of characters (lit/unlit, paved/gravel, wildlife corridors) be protected and enhanced? What opportunities can be created by the phasing of development of the site to separate hamlets with green spaces?
- **04.** View corridors and panoramas/long views: Certain parts of the site offers long views to the Cleveland Hills and North Yorkshire Moors. Can new development capitalise on these views and protect them from taller development on the lower slopes, which will likely be more inwardlooking developments.

**05. Phasing:** Attention has been paid to likely development parcel sizing and phasing based on

known housing demand figures for Darlington. Current thinking is that development may start at the east and on the west simultaneously.

**06. Natural, historic or man-made features:** Wherever possible natural, historic or man-made features have been used to define and reinforce Character Area boundaries. For example the Ketton Packhorse Bridge, and the long, rising avenue which traverses the site, from the WW2 pill box and terminating in the (currently tree shrouded) Grade II listed Skerningham Manor on the brow of the ridge.

The East Coast Main rail line effectively separates the Beaumont Hill Character area from the remainder of the site as it slices north-south on both embankments and cuttings.

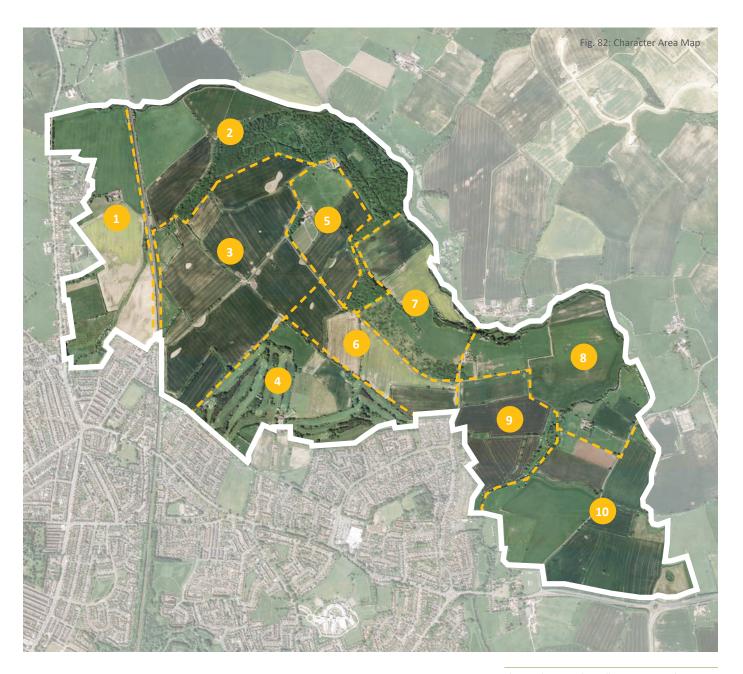
Within this large site some Character Areas will not be subject to physical development. 4 Character areas are unlikely to be developed at all; 3 are unlikely to be developed within the plan period; which leaves 3 Character Areas which will be subject to physical development in the short to medium term. Public engagement was also used to identify these Character Areas.

The Character Areas do not define development parcels per se and may contain one or more "hamlets". As each phase of development comes forward a Parcel Code will be produced, based on the criteria outlined for each Character Area in Section 6.0, informing the Design Code for that phase.

#### **Character Area Names**

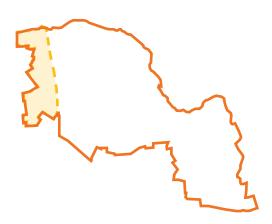
The naming of the Character Areas was also informed by the attendees at the Public Engagement sessions, to ensure the names were meaningful to local residents and for them had firm, unambiguous geographical attributes.

- 1 Beaumont Hill
- 2 Skerningham Woods
- 3 Skerningham Lane West
- Golf Course (The Fairways)
- 5 Manor House View
- 6 Skerningham Lane East
- Quarry Woods
- 8 Barmpton Forest
- 9 Barmpton Lane
- 10 Bishopton Lane



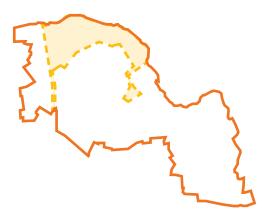
# 5.1 | BEAUMONT HILL

# **5.2 | SKERNINGHAM WOODS**



#### **Beaumont Hill**

Undulating arable farmland with low lying grasslands. Established hedges and tree groups with a footpath crossing the Southern area. Existing farm to the North which, with its access road and building, dissects the land to the North. Two main access points to the land to the West across the East Coast mainline and at least three existing access points from Beaumont Hill.



# **Skerningham Woods**

Open farmland and the Skerningham Community Woodlands is situated on north facing slopes that fall towards the gently meandering river. With low water levels and scrubby riverside vegetation, it is often difficult to discern the course of the river although a bridge to the west offers views and a gravelly beach with scattered nearby trees is a popular spot for families to play in the water. The East Coast Mainline can be partially seen on a viaduct.





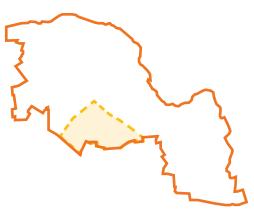
# 5.3 | SKERNINGHAM LANE WEST

# ... .....

## **Skerningham Lane West**

Predominately arable land with East Coast Mainline to the West and existing links across the line. A strong tree-line to the South/ South East and connected to Skerningham Lane East to the East. Low Skerningham Lane is a strong route towards Skerningham Manor and features the pillbox, a locally recognised landmark. Salters Lane towards 'Skunny Woods' is also a key feature and well used route.

# 5.4 | GOLF COURSE (THE FAIRWAYS)



#### **Golf Course**

Located at the existing residential edge on very gently undulating land, including heavily managed fairways with dividing tree planting, plantation, woodland blocks, some wetland and agricultural fields with field trees, hedgerow field boundaries and a group of buildings at Elm Tree Farm. Smaller fields to the south have an enclosed feel with a dense hedgerow network. The golf club house is set within hard-standing for car parking and associated supporting structures.



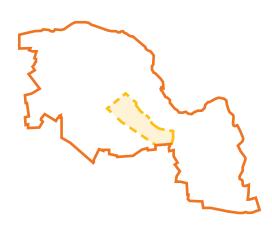


# 5.5 | MANOR HOUSE VIEW

# 5.6 | SKERNINGHAM LANE EAST

#### **Manor House View**

This character area includes the Grade II listed Skerningham Manor and surrounding agricultural land. It sits just to the north of the ridge line and will be to the north of a proposed Local Distributor Road serving the Skerningham development.



## **Skerningham Lane East**

Predominantly arable land but connects with existing development on Barmpton lane. Mixed plantation woodland and footpath runs along the northern edge and the land falls away south from the ridge line. Amenity grassland runs along the southern boundary and an important footpath north south through the area.



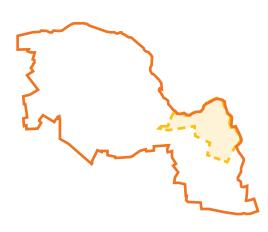


# 5.7 | QUARRY WOODS

# 5.8 | BARMPTON FOREST

## **Quarry Woods**

A section of the shallow northeast-facing Skerne river valley, and former quarry, comprising open rolling arable land with Skerningham Community Woodlands to the north and riparian woodland where the valley narrows to the east close to Barmpton. Slopes all face east and northeast and fall towards the gently meandering river. With low water levels and scrubby riverside vegetation, it is generally difficult to see the actual river. Drainage ditches incise the fields and lead to the river.



## **Barmpton Forest**

Open low lying floodplain of agricultural land with a large scale field within a meander of the River Skerne, gently rising to the west and south of the river with a farmstead. There is a noticeable lack of tree cover are a few trees along the river and on field boundaries, few hedgelined field boundaries and a scrubby edge to the river that screens views of the actual water making it difficult to establish the presence of the Skerne.



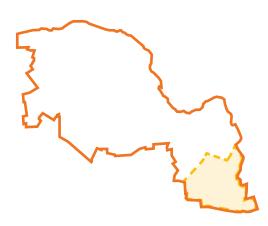


# 5.9 | BARMPTON LANE

# 5.10 | BISHOPTON LANE

## **Barmpton Lane**

This area is the land predominately to the east of Barmpton lane and rear gardens of the existing dwellings in the neighbouring Whinfield community. It is effectively bounded to the south-east and east by the River Skerne with its related riverside trees and planting. The land rises towards Elly Hill in the North which falls with the neighbouring Barmpton Forest character area.



## **Bishopton Lane**

This character area covers the land that lies either side of Bishopton Lane. It is bounded to the south by the A1150 Stockton Road; to the west and northwest by the River Skerne where it abuts the Barmpton Lane character area; to the east and northeast it follows a series of meandering field boundaries; the south eastern part juts out to effectively overlap the adjacent strategic A66 roundabout junction.





# 6.0 | CHARACTER AREA CODES

- **6.1 Beaumont Hill**
- **6.2 Skerningham Woods**
- **6.3 Skerningham Lane West**
- **6.4 Golfcourse (The Fairways)**
- **6.5 Manor House View**
- **6.6 Skerningham Lane East**
- **6.7 Quarry Woods**
- **6.8 Barmpton Forest**
- **6.9 Barmpton Lane**
- **6.10 Bishopton Lane**

# 6.1 | BEAUMONT HILL



#### **Nature**

Existing features such as hedges, high grade trees, marshland are to be maintained and enhanced and wildlife corridors clearly identified. The low laying areas are to be used as part of the strategy to enhance biodiversity. SUDS will also contribute to this rich natural area which will have no buildings present.

#### Movement

Pedestrian and cycle hierarchy over vehicles is imperative. Any development to the North of the Skerningham Local Distributor Road would need to ensure this does not create a barrier to this new neighbourhood's connection with facilities and the rest of the character area.

#### **Built form**

Due to the nature of the topography, flooding issues and the new road to the North, the area of land that can be built on is reduced. Therefore, a layout that enables c.600 homes to be built in this character area must have a higher density. This will also help contribute to the sense of place and houses being near to facilities and amenities. The route of the

pylons are to be taken into account but this buffer must appear to be natural rather than a hard edge.

#### Identity

It is important for Beaumont Hill and the development to the West of the East Coast Mainline (ECM) to be able to function and be sustainable in its own right. This is important due to the phasing of the housing to the East and the physical restrictions of the ECM. It must endeavour to use all available existing routes across the line and improve these to enable ease of pedestrian and cycle flow between the East and West areas. of the Garden Village. These links must be enhanced as part of phase one in order to link with the green infrastructure.

There must be local amenities such as a shop and café within the Beaumont Hill character area and an easily identifiable 'centre'.

## **Public space**

Public rights of way are to be maintained and enhanced. Existing and historic hedges and boundaries are to be given consideration in the masterplan as are buffers to the existing houses and the existing farm as well as reinforcing the northern green space by the River Skerne. Public space must not be a by-product of the housing layout but will be the primary driver for the masterplan. Wildlife corridors along with public spaces for different activities are to be integral for this character area and green infrastructure a driver for design choices.

#### Uses

Local amenities are crucial to the success of this character area to allow it to be sustainable, reduce vehicle travel and give it identity. Vehicle travel must be discouraged to these amenities and walking and cycling encouraged both within the site and to nearby services. Local community shops and cafés are encouraged however any outof-town type facilities such as 'Drive Thrus' will not be allowed as this would contradict the essence of place and identity of the garden village. Allotments will be encouraged and there is a known local demand in the Beaumont Hill area. With c.600 additional homes it is clear allotment space must form

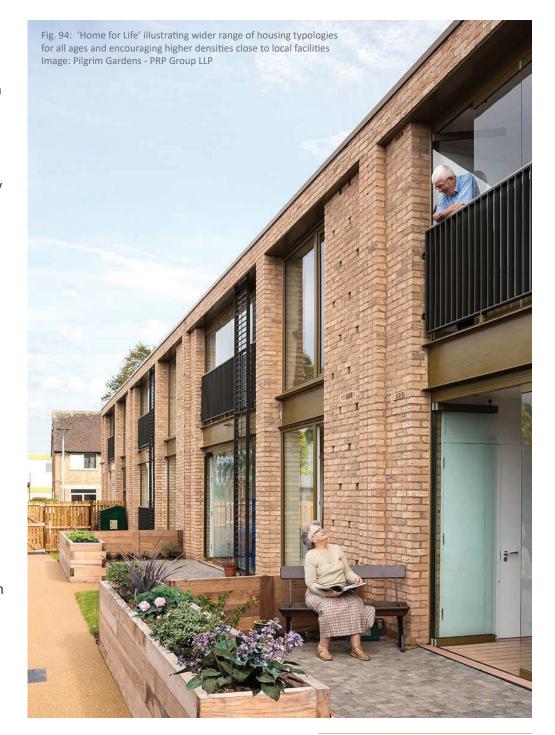
an important part to the masterplan of this area.

## **Homes + buildings**

No building on or near flood plain.
Climate change and increased heavy rainfall to be considered when identifying housing location.
Town houses, terraces and a village centre type density are to be encouraged for this relatively compact Eastern development instead of detached and lower density housing.

As well as delivering on the vision for the overall Garden Village set up in 1.1, it is important that this initial phase of housing reflects meeting the climate challenge.

In addition, custom build, self-build and space set aside for Co Housing (typically 20-25 houses) is to form part of this masterplan. A pilot scheme for net zero carbon houses and building is to be implemented in the first phase to learn from and be able to deliver all future phases as zero carbon homes. This upskilling is imperative to meet the climate emergency.



# 6.2 | SKERNINGHAM WOODS



#### **Nature**

The river and all existing habitats must be enhanced. As an opportunity for further Biodiversity Net Gain, and subject to the approval of the Environment Agency, the river is to be broken out of its channel creating scrapes, wetlands and offset ponds which can also have a SUDS role. The semi-natural woods and plantation of Skerningham Community Woodlands and any burial sites that may be present, should be be managed for longevity, tree health, biodiversity and visitor access. Existing hedgerows must be maintained and improved with buffer strips, gaps filled and improved species diversity. Invasive Himalayan Balsam needs to be eradicated across the area. Effective buffer strips are to be created adjacent to the River Skerne to prevent potential nutrient leaching from agricultural land into the river. Any burial sites that may be present should be sensitively considered.

#### Movement

All Existing Public Rights of Way must be retained and enhanced with the extensive network within Skerningham Community Woodlands being clearly signed for access in and out. Public access to and along the River Skerne will further aid memory mapping of the area with the bridge crossing being a key landmark for what would become part of the Skerne Valley Park. Wildlife corridors incorporating pedestrian and cycle access will connect to the other character areas and existing urban development.

#### **Built form**

Due to the attractive quality of the landscape, the topography and flooding issues, there must be no new houses within the valley which are beyond the ridge line of the Skerne Valley. A visitor centre with interpretation, toilets, refreshment and car parking could be incorporated if not developed beforehand in another of the riverside character areas.

#### Identity

The existing quiet rural character must be maintained although land use is to transfer from intensive agriculture to meadows managed for biodiversity or grasslands for public access. The presence of the river Skerne is to be enhanced within the area for public enjoyment and the benefit of wildlife. Wetlands could further contribute to this character.

## **Public space**

There is reasonable public access at present, but the Skerne Valley Park would transform this into a country park. Public access must be dovetailed with ecological enhancement and spaces created that are formed of ecological building blocks of low maintenance species rich grassland, woodland, wetland and scrub with riverside access Wildlife corridors incorporating

pedestrian and cycle access must connect to other character areas.

#### Uses

The predominant use of the character area must be a country park that incorporates the existing Skerningham Woods and a possible new visitor centre. Land use would be in combination with agriculture and its biodiversity and natural role. The low-lying floodplain also offers the potential for more strategic SUDS wetland infrastructure.

## Homes + buildings

Establish possible visitor centre and bird hides within the Skerningham Valley Park.



# 6.3 | SKERNINGHAM LANE WEST



#### **Nature**

There are several strong natural features within the character area which must be a starting point for the masterplan. Hedges, paths, high grade tree groups are to be maintained and enhanced with wildlife corridors clearly identified and incorporated as landscape design features.

#### Movement

Pedestrian and cycle hierarchy over vehicles is imperative. The masterplan for this character area and connected areas need to clearly demonstrate more sustainable travel and the ability to achieve a 20min walkable neighbourhood. There needs to be clear vision of how pedestrians and cyclist will have priority when crossing the new road to the North to access Skerningham Woods and other green infrastructure.

#### **Built Form**

No build form to the East of Salters Lane is allowed and a buffer to the pylon route needs to be introduced. Historical hedge, field boundaries and present footpaths are to be used as a design driver for the built form. There is an indication of a possible Deserted Medieval Village located close to Skerningham Manor which needs to be investigated and if/ when located is to be both protected and celebrated by related interpretation as a local design feature.

#### Identity

The future 'centre' of Skerningham is to be established within this character area and the adjoining Low Skerningham West which give further emphasis to the need for a strong sense of place and identity to deliver the Vision (see 1.1).

## **Public Space**

Public squares and green space to have priority within this character area. These spaces, such as public squares should have greater building density surrounding it in order to help create a sense of place. Like in other character areas public spaces are to be a primary driver for the masterplan. Good links to public spaces via footpath and cycleways to connect all public spaces throughout the overall masterplan. This movement network is to be implemented in the first phase.

#### Uses

This area is to ultimately be the centre of the overall masterplan and as such local amenities and services, education, employment and leisure are to be considered carefully and designed in from the outset. Consideration however must be given for phasing and as this area will not be in the first phase so adequate local amenities also need to be provided in the other first phase areas that complement this character area when completed. Uses are to be positioned to encourage walking and cycling and discourage driving. Central areas for amenities and services must be pedestrianised with related higher building densities and house typologies.

## **Homes and Buildings**

A good density of housing and buildings is important in order to avoid urban sprawl and also to create a clear identity within this character area. This area is in the later phases of the development and therefore must reflect the step change in net zero carbon methods piloted in the first phases.



# 6.4 | GOLFCOURSE (THE FAIRWAYS)



#### **Nature**

The landscape structure with existing habitats of hedgerows, hedgerow trees, field trees, woodland, plantation and wetland are all to be retained, with buffer strips incorporated, and further connected to create wildlife corridors in and outwith the character area and enhanced for biodiversity. Species composition and tree structure of the plantation must be managed towards more native species and greater openness for public access. Wetlands are to have a SUDS role from the wider area. Management of the golf course, if retained in this location must be adjusted so that it is of greater benefit to biodiversity.

#### Movement

A well-used bridleway and the Historic Salters Lane route runs along the southwest boundary of the site. This route will be enhanced without detriment to nature and it's heritage value to make wider connections from existing residential areas towards the Skerne River and be set within wildlife corridors that provide the experience of being 'in

nature'. If the golf club is retained, safe and manageable access will be created through the course; but if it is relocated greater opportunities exist for the public enjoyment of the parkland landscape.

#### **Built Form**

Scenarios differ depending on whether the golf club moves or not. If removed, potentially a linear residential typology will maintain the mature trees that structure the fairways. In either scenario, the green infrastructure will become a more visible and usable public amenity.

## Identity

The landscape character currently is urban fringe with many positive aspects such as green infrastructure and no-vehicle movement routes. These must be emphasised and developed with increased public access as key components of public perception of place in development proposals. The role that the golf course currently plays as a green resource will be retained in either scenario.

## **Public Space**

An improved movement strategy that connects town with the River Skerne through wildlife corridors must be implemented to open out at junctions and in places of good passive surveillance to create usable public green space and a network of linear parks. Opportunities are to be found to open up the semi-private open space of the golf course site to greater public use.

#### Uses

A combination of public open spaces, leisure or small scale agriculture must be provided here, with the key being improved public access and green infrastructure that facilitates SUDS.

## **Homes and Buildings**

The golf club, if retained, is to be developed as a greater community asset for events, services and social support. Alternatively, linear residential typologies such as garden mews that work around the existing green infrastructure will be provided in this location.



# 6.5 | MANOR HOUSE VIEW



#### **Nature**

Existing features such as hedges, woodland and tree belts are to be maintained and enhanced including the green infrastructure corridors.

#### Movement

Existing pedestrian and vehicular access to the communities at Skerningham Manor and Low Skerningham from both Barmpton Lane and Salters Lane will need to be retained.

The Local Distributor Road will run to the south of this area below the ridge line and sensitive treatment of the Salters Lane green infrastructure corridor crossing will be critical to retain the character of this route.

## **Built Form and Identity**

Skerningham Manor is a focal point with land to the south sitting lower on the landscape. In addition to the Grade II Listed Skerningham Manor there is a group of grade II listed buildings at the edge of the community woodland to the north. Both groups of listed buildings are currently within a largely arable

landscape and as key heritage assets their respective settings need to be protected and enhanced.

There is also a possible Deserted Medieval Village located close to Skerningham Manor which, if found following further archaeological investigation, will be protected and incorporated in a publicly accessible and intrepreted local feature within an enhanced landscape setting.

## **Public Space**

This largely arable landscape at present which will either continue for productive agricultural use or alternatively be managed community open space with enhanced biodiversity management.

#### Uses

Publicly accessible open space excluding existing residential curtilages.

# **Homes and Buildings**

Apart from any remaining conversion of existing buildings there will be no additional development in this area.



# 6.6 | SKERNINGHAM LANE EAST



#### **Nature**

The mixed plantation woodland (Hutton Plantation and former Quarry) runs along the northern edge with a public footpath along its length -the ridge line follows the line of the plantation. There is also an existing public footpath which runs from Whinfield north to the footpath both of these must be retained and enhanced as appropriate as green infrastructure and related wildlife corridors

#### Movement

Parts of this area will be the amongst the first phases of the Garden Village and will need to clearly demonstrate a commitment to the 20 minute walkable neighbourhood Vision (see 1.1). Pedestrian and cycle permeability within the area and into and through the existing development to services beyond this character area needs to be established from the start in the masterplan and related parcel codes.

As development progresses one of the streets running through this area will be a bus route to ensure that all homes are within 5 minutes' walk from a service. The Local Distributor Road from A167 to A1150 will run through the entire length of this area. There will be at least one roundabout junction on the Local Distributor Road to provide access to the development areas.

The local plan states `Development of the initial phases of development at the eastern part of the allocation will be accessed via Barmpton Lane and /or Bishopton Lane.` In order to minimise the impact of the development and its construction on the existing communities it is important that vehicular access is only via Barmpton Lane and/or Bishopton lane and this is provided at the outset. Barmpton Lane / Whinfield Way would however provide the link to a bus network through the development.

#### **Built form**

There will be no development to the north of the Local Distributor Road. In addition, there will be a green buffer provided between the existing and new development. Again a good density of housing and buildings is important in order to avoid urban sprawl. It is also important that this initial phase of housing reflects

meeting the climate challenge. A pilot scheme for net zero carbon houses and building is therefore to be implemented in part of this first phase to learn from and be able to deliver all future phases as zero carbon homes. This upskilling is emperitive to meet the climate emergency.

#### Identity

Parts of this area will be the amongst the first phases of the Garden Village and will need to clearly demonstrate a commitment to quality of place and local identity as set out in the Vision (see 1.1).

Views from this area to the open space to the north and related country park are important and therefore the Local Distributor Road must not intrude into these views.

#### **Public Space**

In addition to informal and formal open space that will be provided within this character area easy access will need to be ensured to the open space to the north beyond the Local Distributor Road and also to the amenity grassland along the southern edge.

The footpath/ cycle crossing of the Local Distributor Road will require sensitive treatment as routes move from an urban paved and lit form to a more rural character as part of the green infrastructure corridors.

#### Uses

Achieving a good mix of residential and non-residential uses to support the 20 minute walkable neighbourhood will mean some community services will be located in or adjacent to this character area.

#### **Homes and Buildings**

The topography of this area would suggest that medium and higher density development must logically be located within the southern part of this character area, closest to services and public transport. A lower density of development to create a more rural character and softer edge to the north would be appropriate.

A small part of the eastern end of this character area (and the western side of character area 10) could initially be accessible to the existing public transport provision.



# 6.7 | QUARRY WOODS



#### **Nature**

The river and all existing habitats must be enhanced. As an opportunity for further Biodiversity Net Gain, the river is to be broken out of its channel creating scrapes, wetlands and offset ponds with a SUDS role. Woodlands are to be managed for longevity, tree health, biodiversity and visitor access. Existing hedgerows will be maintained and improved with buffer strips, gaps filled and improved species diversity. Invasive Himalayan Balsam needs to be eradicated across the area. Effective buffer strips must be instated adjacent to drainage ditches and the River Skerne to prevent potential nutrient leaching from agricultural land into the river.

#### Movement

Public access is currently limited and a pedestrian riverside route needs to be created that connects Skerningham Community Woodlands to the northwest with Barmpton in the southeast. In addition, an upper route along the ridge line is required to offer users to opportunity of panoramic views of the River Skerne and the highly attractive rural landscape on the north side of the valley. A continuous public footpath runs along the north side of the river outside of the Skerningham site boundary. Wildlife corridors incorporating pedestrian and cycle access are required to connect to other character areas and existing urban development. A new timber bridge of memorable design, that is suitable for both pedestrians and cyclist, is required to cross the river Skerne so as to enable a figure of 8 loop around both sides of the river and thus provide greater choice for users.

#### **Built form**

Due to the attractive quality of the landscape, the topography and flooding issues, there must be no new houses within the valley which are beyond the ridge line of the Skerne Valley and maintain the Barmpton Rural Gap. A visitor centre with interpretation, toilets, refreshment, community facilities and car parking can be incorporated if not developed beforehand in another of the riverside character areas.

## Identity

The existing quiet rural character must be maintained with land use transferred from intensive agriculture to meadows managed for biodiversity or grasslands for public access. The River Skerne is to become visible and elevated within the area for public enjoyment and the benefit of wildlife. Open views of the site are enjoyed from the public footpath along the north side of the river outside of the Skerningham Garden Village site boundary. The form and design of the bridge must positively contribute to the identity of Skerningham and the Skerningham Valley Park.

## **Public Space**

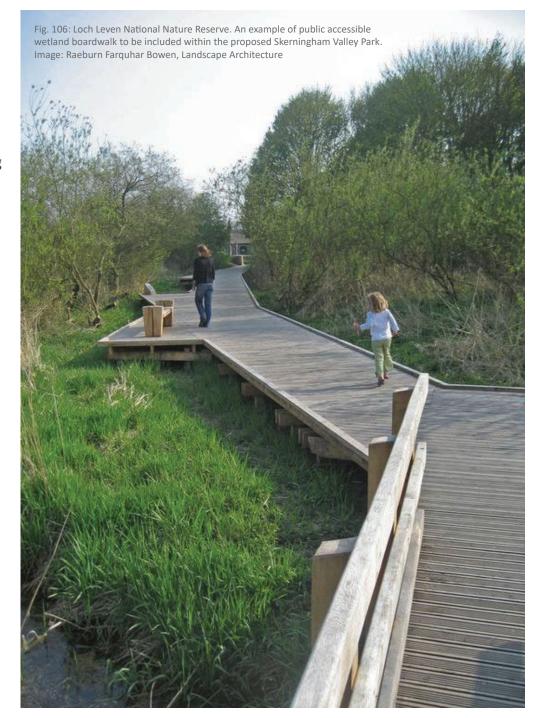
There is minimal public access at present, but the Skerne Valley Park will transform this into a country park. Public access is to be dovetailed with ecological enhancement and spaces created that are formed of ecological building blocks of low maintenance species rich grassland, woodland, wetland and scrub with riverside access. Wildlife corridors incorporating pedestrian and cycle access are to connect to other character areas.

#### Uses

The predominant use of the character area remain agricultural apart from the proposed new country park that incorporates the existing Skerningham Woods. The low-lying floodplain offers the potential for more strategic SUDS wetland infrastructure. Barmpton Quarry Landfill site is located within this area and will need appropriate investigation.

## **Homes and Buildings**

Establish possible visitor centre and related public facilities within the proposed Skerningham Valley Park.



# 6.8 | BARMPTON FOREST



#### **Nature**

Existing trees and hedges must be maintained, riparian woodland developed along the river and the river's role as a wildlife corridor accentuated and linked to the hinterland with appropriate planting and dimensions. The river banks are to be opened up, with scapes and wetlands created which will play a role in SUDS for the wider Skerningham. Wide buffer strips are to be incorporated to reduce the risk of agricultural chemicals and nutrients leaching into the river.

#### Movement

The nature of the flood plain and open attractive landscape presents an ideal opportunity for pedestrian and cycle recreational access for the enjoyment of nature and the landscape. Footpath loops are to be created which form part of a wider Skerne Valley Park with new

footpaths and bridleways linking into existing routes in Barmpton and wildlife corridors incorporating pedestrian and cycle access connecting to other character areas.

#### **Built form**

Due to the nature of the topography and flooding issues, there must be no new houses within the valley, nor within the rest of this character area as it lies north of the Local Distributor Road and is partly located within the Barmpton rural gap.

A visitor centre with interpretation, toilets, refreshment and car parking can be incorporated if not developed in another of the riverside character areas beforehand.

## Identity

The existing quiet rural character is to be maintained with land use transferred from intensive

agriculture to meadows managed for biodiversity or grasslands for public access. The presence of the river Skerne is to be elevated within the area for public enjoyment and the benefit of wildlife. Wetlands will further contribute to this character.

## **Public Space**

There is little public access at present, but the Skerne Valley Park will transform this to a country park. This will also include opportunities to encourage play, promote physical activity and interpretation that accessibly tells the story of the place. Public access is to be dovetailed with ecological enhancement and spaces created that are formed of ecological building blocks of grassland, woodland, wetland and scrub with riverside access. Wildlife corridors incorporating pedestrian and cycle access are to connect to other character areas.

#### Uses

Public park with related visitor centre and facilities.

#### **Homes and Buildings**

Visitor centre and bird hides.



# 6.9 | BARMPTON LANE



#### **Nature**

This is presently an area of predominantly agricultural land characterised by field trees and hedge lined field boundaries which will be a strong influence in shaping subsequent the masterplan and related parcel codes for subsequent built development.

There is a need for buffer planting to the west adjacent to existing properties on Barmpton Lane as well as reinforcing the present River Skerne planting to provide an overlapping edge with the neighbouring Bishopton Lane area to the east.

#### Movement

The existing local facilities can be accessed off Barmpton Lane using the existing footpath skirting the informal amenity space and Whinfield primary school playing fields.

The main street connection, whilst initially via Barmpton Lane to the north, will need predominately to

link through to the likely southern development parcel from a new route from Barmpton Lane and/ or Bishopton Lane also serving the neighbourhood character areas of the same name.

#### **Built form**

Existing neighbouring properties are relatively low density with long narrow garden plots with a large area of communal allotments abutting the south west edge.

The opportunities for new development within the character area will need to establish a suitable density of built form given its favourable walkable/cycling proximity to the existing facilities in Whinbush Way.

## Identity

This will be a distinct relatively small new neighbourhood in an enhanced natural setting whilst initially benefiting from the existing walkable facilities to the west in Whinfield. This can logically be arranged as a distinct village and related hamlet type scale of development respecting and reinforcing the present field boundary pattern.

At its heart will be a village like cluster around a focal communcal space to assist with legibility.

## **Public Space**

This will be informal natural amenity space acting as a buffer to the Barmpton Lane properties rear gardens; an enhanced setting for the River Skerne bankside; and to the north an extension to Barmpton Forest with new pedestrian/cycle connections albeit likely to be via Barmpton Lane due to the barrier of the eventual Local Distributor Road.

#### Uses

Primarily residential and related passive recreational uses with the possibility of supporting community facilities including space for local food growing as well as formal allotments.

There could additionally be some local 'cornershop' type retail or related facilities near the Barmpton Lane entrance to the character area to supplement the existing main Whinfield neighbourhood centre.

## **Homes and Buildings**

These will be a bespoke group of homes and related community facilities to reinforce the Vision (see 1.1) to create a strong sense of place in this eastern area of the Garden Village.

This will be a relatively dense place comprising predominately contemporary terraced; link terrace; and semi-detached homes to achieve this. Only a limited number of detached homes are to be used in key locations to reinforce the village cluster concepts and seeking to avoid previous surburban house types and layouts.



## 6.10 | BISHOPTON LANE



#### **Nature**

The present arable fields are considered more open in landscape assessment terms with far less of the surviving historic field pattern relative to other character areas.

This will require investment in advance planting and related landscape design features to ensure a suitably enhanced bio-diversity as well as visual amenity for future public use.

#### Movement

The future movement network will initially remain focussed on Bishopton Lane as the principal access route within the character area.

The pedestrian and cycle network will need to create a number of off road links towards the west in order to connect with the existing Whinfield neighbourhood in order to meet the overall garden village concept of providing 20 minute walkable neighbourhoods.

#### **Built form**

Residential development will have a rural village form taking inspiration from Great Burdon. All development should avoid backing onto the watercourses. The Great Burdon Rural Gap must be retained and improved. The design and layout must be considerate of the openness of the eastern approaches to Great Burdon

## Identity

Presently, open fields with sparse surviving hedges which are to remain and be reinforced around the edges of the new development.

Residential development should be contemporary but draw inspiration from the nearby settlements of Great Burdon, Haughton, Sadberge and Barmpton. Development parcels should incorporate native hedge or wall boundaries at their countryside edge to provide a soft transition into the rural landscape.

Any potential employment uses would likely involve larger buildings. and bigger plots that will need to be set within a much-enhanced landscape setting to mitigate the visual impact.

Particular attention will be required in order to achieve a positive identity for relatively 'big box' type business uses whilst striving for human scale in the external spaces providing active public frontages with only limited front entrance visitor parking. Otherwise, all non-essential parking and service yards are to be located to the rear.

## **Public Space**

Existing watercourses and flood zones should be utilised to create and integrate public spaces.

#### Uses

Business uses may be suitable, subject to employment land needs and take up during the lifespan of the development, to be assessed as part of a review of the Local Plan. Supporting local facilities are to be provided in support of either employment or residential uses given the relative distance from the existing Whinfield neighbourhood, depending what facilities are provided in the adjacent Barmpton Lane character area'.

## **Homes and Buildings**

Residential development should be two storey to two and a half storey maximum with lower density reflective of its rural character.

Business use developments require a different form and scale of buildings compared with housing. Strategic design principles are to be followed to achieve a coherent group of buildings in terms of elevational treatment including fenestration and materials; main street frontages and entrances; building lines; screening of parking and service yards.



Fig. 113: Employment units sketch proposal





## 7.0 ASSESSMENT TOOLS

- 7.1 Assessment Process
- 7.2 Building for a Healthy Life
- 7.3 Design Quality Coding Checklist

## 7.1 | ASSESSMENT PROCESS

#### **Assessment Process Overview**

All scheme designs prepared with consideration to all relevant policies and design guidelines including this Design Code/ SPD, must be assessed by the designer using the tools explained in this section.

The assessment process is in two sequential parts, as illustrated in Fig. 114.

#### **Assessment Part One**

Building for a Healthy Life (BHL) is England's most widely known and most widely used design tool for creating places that are better for people and nature. It is endorsed in national planning policy (NPPF 2021, Chapter 12, paragraph 133) as an assessment framework to support the delivery of well-designed places. Building for a Healthy Life, integrates the learning from the Healthy New Towns Programme-Putting Health into Place in which Darlington was a Pilot and is the key measure of design quality for this development.

In addition **Streets for a Healthy Life**- a companion Guide to Building For a Healthy Life (BHL) and Manual for Streets (MFS) illustrates and explains what good residential streets look like, and how they function. A revised Manual for Streets is now in the course of preparation (August 2022), which Streets for Healthy Life will help to inform and, in the interim, will be used to assess the quality of streets in the Skerningham development.

#### **Assessment Part Two**

## **Design Quality Coding Checklist**

The assessment criteria in the Design Quality Coding Checklist (DQCC) are drawn from the Skerningham Garden Village Design Code/ SPD and are site specific.

It is a simple Pass or Fail assessment. Does the scheme meet/ comply with the criteria; Yes or No.

Where a scheme fails to meet any criteria then the developers will be required to resubmit or revise their proposals accordingly.

#### **Assessors**

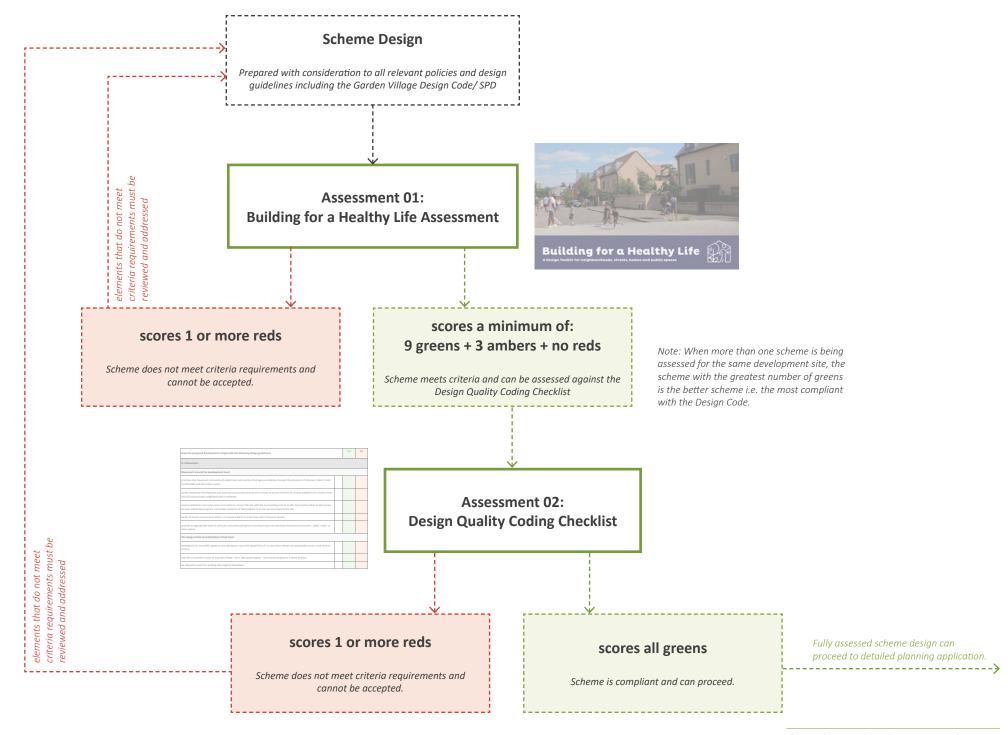
Developers can use the tools themselves. Also, the Council may

wish to delegate either or both the BHL and DQCC assessments to a suitably qualified extenal organisation to undertake assessments on their behalf. Assessment panels will then be able to provide relevant feedback and guidance where any criteria have not been met.

Section 7.2 gives a brief explanation on using the BHL assessment toolkit.

The full Design Quality Coding Checklist is set out under Section 7.3.

Fig. 114: (right) Assessment
Process flowchart



## 7.2 | BUILDING FOR A HEALTHY LIFE

#### **Using BHL**

Across 3 headings, BHL presents 12 considerations to help those involved in new developments to think about the qualities of successful places and how these can be best applied to the individual characteristics of a site and its wider context, from macro through to micro scale considerations.

The 12 considerations in Building for a Healthy Life must inform the design process and each phase of the Garden Village from the early masterplanning to detailed design stages.

The 12 Considerations are:

## **Integrated Neighbourhoods**

- 01. Natural connections
- 02. Walking, cycling and public transport
- 03. Facilities and Services
- 04. Homes for everyone

#### **Distinctive Places**

- 05. Making the most of what's there
- 06. A memorable character
- 07. Well defined streets and spaces
- 08. Easy to find you way around

#### **Streets For All**

- 09. Healthy streets
- 10. Cycle and car parking
- 11. Green and blue infrastructure
- 12. Back of pavement front of home

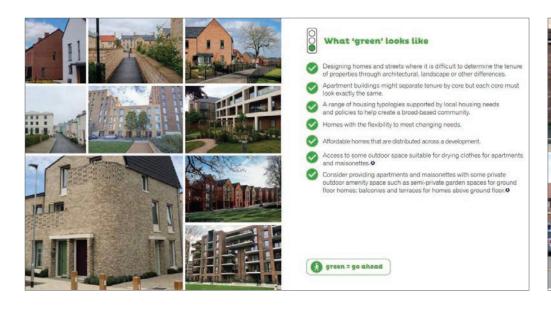
BHL is a nationally agreed set of assessment criteria based around a 'traffic light' scoring system to appraise a proposed scheme against the 12 considerations. It works best where it is used as a 'golden strand' informing the entire design process from the early masterplanning to detailed design stages (see traffic light diagram opposite for explanation).

For the Skerningham Site, it will be a requirement that individual BHL assessments of development parcels will be undertaken prior to seeking detailed planning approval and must achieve a minimum of 9 green lights (and no red lights - indicating aspects

that need to be reconsidered). If a parcel scores one or more REDs, then the scheme has failed, and no further assessment must take place until the scheme is redesigned and under reassessment achieves an absolute minimum of 9 GREENS and 3 AMBERS under the BHL test criteria.

The BHL assessment criteria are therefore the first to be assessed, before moving on to assessing the scheme against the Design Quality Coding Checklist.

The full BHL guide can be accessed at www.designforhomes.org



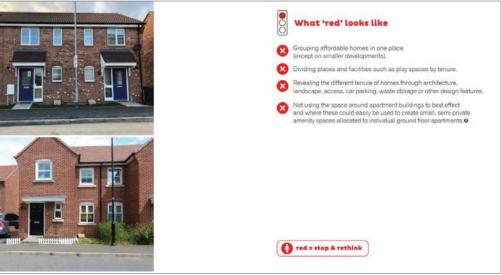
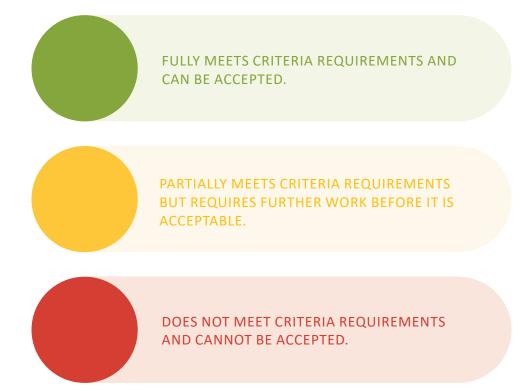


Fig. 115: (above) excerpts from BHL. Fig. 116: (below) traffic light scoring system.

designe Itd is the accredited provider of BHL assessments in the northeast.



## 7.3 | DESIGN QUALITY CODING CHECKLIST

## Design Quality Coding Checklist (DQCC) Introduction

The following DQCC is the summary assessment sheet of all the Design Principles in the Skerningham Design Code. Development proposals that follow this checklist will help deliver the vision and a stepchange required in the design quality, sophistication and long-term sustainability required by the Pathfinder initiative.

The response to every item on the checklist must be a "yes" (tick) if a scheme is to achieve the go-ahead.

If the "yes" box cannot be ticked, then the score must be recorded as a "no" and the scheme will have failed the test.

The checklist is included here to allow design and development teams

to quickly review their proposals and highlight if any aspect of their scheme is likely to fail and therefore take the necessary action.

In any case, the Council will use the DQCC tool in assessing any preapplication or later discussions.

This system will work best when the Council appoints independent assessors to undertake the objective formal assessment of a scheme and will point out any shortcomings in a scheme and recommend remedial action.

Some of the criteria may not be relevant to all proposals. If this is the case the applicant must clearly state why the particular criteria is not relevant.

Does the proposed development comply with the following design guidelines?	Yes 🗸	No ×
4.1 Movement		
Movement Network		
Is the movement and safety of pedestrians and cyclists of all ages and abilities prioritised through the provision of Coherent, Direct, Safe, Comfortable and Attractive routes?		
Are all homes and essential community services and schools located to clearly demonstrate that a 20 minute walkable (10 minutes there and 10 minutes back) neighbourhood is achieved?		
Are there pedestrian and cycle routes that connect the site with the surrounding area to enable local communities to also access services within Skerningham and enable residents of Skerningham to access services beyond the site?		
Are 80% or more households within 400 metres walking distance of a bus stop served by a regular day time service (at least every 30 minutes)?		
In order to ensure adequate potential public transport penetration are some or all of the Main street network designed to accommodate local buses, including bus stops?		
Does the scheme provide an appropriate level of vehicular and cycle parking but ensuring it does not dominate the built environment, public realm, or open spaces?		
Is It a legible and permeable network of streets with a clear street hierarchy, including a network of local and tertiary streets of varying character. The aim is to move from main and secondary streets to local and tertiary streets as quickly as possible.		
Design of the Skerningham Distributor Road		
Has the distributor road been designed for low traffic speeds with speed limit of no more than 40mph and potentially lower in the central section?		
Does it look like a road that is part of a garden village - not a high speed bypass - and does it emphasise a sense of place?		

Does the proposed development comply with the following design guidelines?	Yes 🗸	No ×
Has the road been aligned to avoid the existing wooded areas and been aligned to avoid being visible from the River Skerne as much as possible? If any loss of woodland would occur an appropriate site mitigation must be proposed which must result in net gain in community woodland on site.		
Does it include additional planting to both enhance the road corridor and provide screening of sensitive locations as appropriate?		
Does the design recognise that properties may face the tree-lined road accessed from service roads?		
Does the design enable sections of footway /cycleway to run alongside the road in certain places, well separated by distance and landscaping?		
Does the road include a number of roundabout junctions that will give the only access access to the development sites and its local street network?		
Is the distributor road traversable with careful consideration of the locations and design at the meeting of footpath and or cycle networks?		
Main Village Streets (Prior to the publication of the revised Manual for Streets the criteria below and in Appendix 9.9 will form the basis for st	treet design	)
Do the Main Village Streets encourage low speeds, are short or broken up with changes in priority/width as part of a permeable network?		
Do they create a positive pedestrian/cycle environment?		
Are there street trees and SuDS?		
Is there appropriate street lighting?		
Are defined parking bays included?		

Does the proposed development comply with the following design guidelines?	Yes 🗸	No ×
Are the Main VIllage Streets a maximum width of 7.3 metres where they are bus and key servicing routes, and/or a maximum width generally of 5.5 metres? In addition Manual for Streets 2 suggests that where HGVs and buses make up only a small proportion of traffic flow reduced carriage widths may be acceptable, making it much easier for pedestrians to cross.		
Do all junctions have tight radii corners?		
Secondary Village Streets ( Prior to the publication of the revised Manual for Streets the criteria below and in Appendix 9.9 will form the basis	s for street	design)
Is there a clear distinction between vehicular, cycle and pedestrian space and variation in typology according to their specific location?		
Are vehicular speeds limted to 20mph?		
Are the streets 5.5m wide (see Appendix 9.9 street details) with trees in a verge strip which will enable provision for parking bays?		
Have street trees that give a sense of an avenue been incorporated, and have SUDs been included?		
Do they include tight junction radii (maximum 3m) and footpath treatments across junction bell mouths to confirm pedestrian priority in these streets?		
Local Tertiary Streets	•	
Have the use of cul-de-sacs been minimised? (Where cul-de-sac are used, connectivity for pedestrians and cycles must be ensured).		
Does the network include filtered permeability throughout to design-out rat-running, create a low traffic environment around homes whilst still allowing pedestrian and cycle movement?		
Have street trees been incorporated?		
Are all households within 5 minutes (400m) walking distance of bus stop?		
Do bus shelters and cycle/ scooter storage incorporate green or brown roofs?		

Does the proposed development comply with the following design guidelines?	Yes 🗸	No ×
Inclusive Streets		
Is there tactile paving at all junctions and crossing points?		
Has infrastructure been included that encourages secondary uses for play and exercise?		
Are street furniture/ trees located so as not to impede movement?		
Do footpaths/ dropped kerbs ensure ease of movement for wheelchair users or buggies?		
Are shared footpath cycle lanes adequate width (minimum 3 metres)?		
Are there features to aid legibility, wayfaring, and ease of movement?		
Active Travel		
Are safe and convenient pedestrian and cycle crossings provided at regular intervals including informal and formal provision?		
Are there places to sit, space to chat or play within the street?		
Do pavements and cycleways continue across side streets or are there tight radii at junctions to ensure the pedestrian desire line is maintained?		
Does the design avoid creating private drives, which can impede pedestrian and cycle movement?		
Will pedestrian and cycle routes be safe, overlooked, and appropriately lit?		
Do cycle routes connect as directly as possible from the tertiary street network to key destinations both within and beyond the Skerningham Garden Village boundary (e.g. local shopping and services, secondary schools, colleges, the town centre)?		
Do cycle routes complement and, in some cases, extend Darlington's (Tees Valley) strategic cycle network?		
Do cycle routes follow the line of village main and secondary roads where appropriate?		
In situations where cyclists are sharing the carriageway are speed differences reduced?		

Does the proposed development comply with the following design guidelines?	Yes 🗸	No ×
Does the design of the Cycle network adopt the guidance in Local transport Note 1/20 Cycle Infrastructure Guidance, DfT July 2020 and follow the guidance on Cycling Level of Service (CLoS) and Junction Assessment Tools (JAT) with a mesh density of 250m max and a deviation factor of 1.2?		
Do leisure cycle routes, that are traffic free and provide safe environments for cycling for all ages and abilities, run through open space and alongside the green/ blue infrastructure network?		
As pedestrian and cycle routes move from the residential areas into the open spaces up to and beyond the distributor road do they take on a more rural appearance; material such as crushed limestone will replace tarmac and do not use streetlighting?		
Has the area of the village centres been designed to be shared between pedestrians and cyclists?		
Vehicle parking		
Have 2 spaces per household been provided?		
Are driveways minimum 6m in length from back of footpath?		
Have 0.5 per dwelling communal visitor parking spaces been provided?		
Cycle parking		
Is cycle parking designed as an essential component of the development and located in both key public spaces, outside destinations, such as schools and within private residences?		
Have visitor cycle spaces been provided separately?		
In private residences is there storage for one at least one cycle per home where it is as easy to access as the car?		
Is there secure and overlooked cycle parking that is as close to (if not closer) than car parking spaces (or car drop off bays) to the entrances of schools, shops, and other services and facilities?		
Is there scooter and cycle parking at schools?		
Waste, Recycling & Utilities		

Does the proposed development comply with the following design guidelines?	Yes 🗸	No X
Are refuse stores, meter boxes, pipes, flues and vents well integrated into the overall scheme and where relevant are PVs and ASHPs fully integrated into the designs?		
Is there High speed (Ultrafast giga byte) broadband connectivity to all homes and businesses?		
Have electric vehicle charging points been provided in accordance with requirements set out on p.53?		
4.2 Nature		
Are existing ecological resources identified and are buffer zones created around these for assisted natural regeneration as advised by a qualified ecologist?		
Has meaningful innovative nature-supporting infrastructure been incorporated as appropriate such as green roofs, architectural bird colonies, insect hotels, or reinforced grass vehicle surfaces throughout?		
Has planting of predominately native and locally sourced species been incorporated wherever possible?		
Have several ecological niches been created in line with local Biodiversity Action Plan ambitions?		
Better Connected to Nature:		
Does the design interconnect existing ecological resources such as woodlands, watercourses, hedgerows, fence lines and wet areas so as to create a green network which allows easy wildlife movement throughout the site?		
Have two or more primary 'ecological superhighways' been created that connect the existing urban centre to the open countryside?		
Do the connecting corridors work with the topography, landscape character views and crossing of the distributor road?		
Climate Resilience:		
Are the development proposals supported by landscape strategies which demonstrably promote sequestration of atmospheric carbon?		
Do the development management and maintenance operations demonstrate how they minimise the use of energy and chemicals?		

Does the proposed development comply with the following design guidelines?	Yes 🗸	No X
Do the proposals demonstrate how the shading and cooling benefits of vegetation have been exploited to reduce unwanted solar gain and, on a macro level, to reduce any potential heat island effects?		
Has the Sustainable Urban Drainage been designed to incorporate stepped swales as part of an approach that maximises biodiversity?		
In areas prone to flooding, have landforms and wetland habitats been created that hold water and help sequester carbon?		
Living in Nature:		
Have all scales of public open space and streets been designed to promote nature?		
Do the proposals demonstrate that natural landscape features are preserved, inviting and likely to encourage public access so as to promote health and wellbeing without compromising biodiversity?		
Are existing and proposed footpaths, cycle routes, bridleways and Public Rights of Way safeguarded within green corridors that work for wildlife?		
Is Green infrastructure such as SUDs and other interventions that perform ecosystem services accessible for public use and enjoyment wherever feasible?		
Does every street enjoy views of existing or meaningful proposed Green or Blue Infrastructure?		
Do proposed new community facilities such as schools, GP surgeries and shops demonstrate how they are connected to nature?		
Are reduced mowing regimes and areas of long grass considered wherever possible to both promote biodiversity and reduce energy use?  Are lawns and amenity grass areas species rich?		
Has external lighting been designed to be cognisant of nature – particularly bats?		
Do the agricultural stewardship proposals promote nature, soil health and include features such as nature strips besides hedges and drainage ditches, depressions for ponds and buffer zones to prevent nutrient ingress into waterways?		
4.3 Built Form		

Does the proposed development comply with the following design guidelines?	Yes 🗸	No ×
Urban Design Principles:		
Do the development proposals in the first instance define a coherent urban design strategy for the area as a whole?		
Do proposals consider all buildings as being important elements of the urban design composition and ensure that they work as a whole, in terms of alignment, massing and architectural approach?		
Do proposals reflect the Council's clear aspiration for the choice of building uses, forms and materials to create a sense of uniqueness in the final development?		
Do the proposals reflect and celebrate local themes in terms of materials, colours, form and style, including a modern interpretation of the local vernacular, making development on the site distinctive, unique and grounded in the region?		
Do façades benefit from detailing openings (windows, doorways ) to enhance depth and articulation?		
Do the the details of design combine to enhance the buildings through the choice of symmetry or conscious asymmetry, the use of colour, quality materials and detailing?		
Elevations work best with a wall to window ratio of 15-35%. Do the proposals meet this criteria?		
Development proposals must not have spurious changes in building lines. Do changes in building line have a sound reasoning?		
Are the village/hamlet cores identified by a localised increase in overall building heights?		
4.4 Identity & Contextuality		
Are views of existing or proposed green infrastructure available to be enjoyed at every street end and turn?		
Do the proposals make use of local materials and detailing?		
Do proposals inorporate legibility and wayfinding strategies within their design to ease navigation?		
Are the proposals guided by a strong masterplan?		

Does the proposed development comply with the following design guidelines?	Yes 🗸	No ×
Has public art been Incorporated in the design of buildings and spaces as well as free-standing pieces? And are artworks placed so as to aid navigation and wayfinding?		
Have the street designs been created from the unified pallet of materials and street furniture as featured in this Design Code?		
Have street tree species been chosen and are they used to create distinct identities and characters for the different street types, as well as to emphasise the differing hamlets/villages from each other?		
Have taller buildings and architectural expression on buildings been used to close vistas along a street or square, preventing a space from "leaking out" in an uncontrolled manner?		
Are colour, materials and/or specific details used to create a distinctive character for different neighbourhoods?		
Buildings through their design should satisfactorily: meet the ground – turn the corner – touch the sky. Do they?		
4.5 Public Space		
Are public spaces appropriately sized and proportioned to meet their function?		
Are spaces playable and do they incorporate nudges that promote physical activity?		
Does the enclosure offered by public spaces meet the guidelines within this Design Code?		
Are facilities provided for various public uses and types of events,?		
Do buildings adequately frame squares, providing a continuous building line around the square, thereby providing enclosure and shelter from the elements?		
Do the squares incorporate active frontages and adequate set backs?		
Has the most appropriate solution for servicing been integrated? - is it to be from the rear of properties and/or provision made within the public space for deliveries?		
Has on-street parking been accommodated?		

Does the proposed development comply with the following design guidelines?	Yes 🗸	No X
Is green infrastructure including trees provided within the public spaces? How has that been located to ensure flexibility for the anticipated uses within these spaces?		
4.6 Use		
Do the proposals offer a mix of uses that support everyday activities, including to live, work and play?		
Do the proposals offer an integrated mix of housing tenures and types to suit people at all stages of life, and are designs both tenure-neutral and socially inclusive?		
Has higher density housing been co-located with shops, services and public transport nodes?		
Does the scheme provide substantial, accessible, useable green/public spaces rather than multiple small strips and verges?		
Are peoples daily needs met within a walkable (10 minutes there and 10 minutes back) radius of their home? (food, healthcare, education, leisure, bus stops).		
4.7 Homes & Buildings		
Are proposals based upon compact simple forms, drawing from the vernacular of the area with contemporary interpretation?		
Does the orientation and position of the dwellings within their site make the maximum use of the South facing orientation for passive solar heating?		
Do dwellings meet the National Minimum Space Standards published by the RIBA (Royal Institute of British Architects) and as internal volume is also important as well as floor area, have a floor to ceiling height of 2.5/2.6m on the principal floor, as a minimum?		
Do dwelling layouts allow sufficient space or flexibility for homeworking?		
Are storage, waste, servicing and utilities "built-in" to the design solutions, including in-curtilage cycle storage and recycling facilities?		
Has Electric Vehicle Charging provision been made in line with the council's Adopted Local Plan Policy IN4? This is a minimum and greater provision will be encouraged.		

Does the proposed development comply with the following design guidelines?	Yes	No ×
Do proposals adhere to the RIBA Climate Challenge 2030 and aim to meet the targets corresponding to the years 2020, 2025?		
Has embodied carbon been taken into consideration for material choices, as well as a material or product's durability, appearance, and maintenance strategy overtime?		
Has good daylighting been designed into dwelllings to improve quality of life and reduce the need for energy to light the home?		
Has the potential use of Modern Methods of Construction (MMC) been taken into account in the design of the dwellings?		
Do a percentage of the dwellings showcase Certified Passivhaus standards, with a larger percentage utilising the Low Energy PH standard? (Combined target to be 5% by 2025, increasing to 15% by 2028. Target % to be reviewed thereafter).		
4.8 Resources & Lifespan		
Do all new homes deliver to the published levels of energy efficiency as soon as possible and by 2025 at the latest?		
Will no new homes been connected to the gas grid from 2025 onwards?		
Are all new homes suitable for low-carbon heating?		
Has the overheating risk in newbuild homes been considered in the proposals?		
Has Net Zero Carbon using the UK Net Zero Carbon Building Standard been adopted in the proposals?		
Have flood defences and strengthened flood resilience measures at the property and community level been considered from the start in the masterplan?		
Does the scheme support sustainable travel?		
Has a net zero energy strategy, In line with the Garden City Standards for the 21st Century (guide 4) been implemented and incorporated in the masterplan?		
Has long term stewardship been organised and implemented?		

# 8.0 ABOUT US

### **Design Code Project Team**

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designe Itd is the design review and project enabling service for the north-east of England, and offers independent, impartial, objective advice to clients on issues relating to the built environment. designe Itd is a profit-for-purpose company which attempts to raise the bar on design quality and sustainability of proposed developments. In terms of sustainability, we mean financial, physical, social and economic sustainability – a balanced, broad-spectrum approach which acknowledges the realities of developing in the north-east of

England arising from its underlying economy. designe Itd deploys a range of tools to deliver services to clients, including Design Reviews, Project Enabling, Training, and acting as "critical friend" in supporting clients think-through and review strategic and tactical matters relating to their built environment and project viability issues. Gateway Reviews are also offered for projects, to confirm readiness to commit to the next stage of investment. designe Itd maintain a Panel of 30+ Built Environment Experts - from seasoned professionals to up-andcoming professionals at the leading edge of their disciplines - and across the spectrum of built environment professions.

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## 9.0 | APPENDICES

- 9.1 Definitions + terminology
- 9.2 Local contextual character influences
- 9.3 Thinkpiece summaries
- 9.4 Reference material
- 9.5 RIBA 2030 Challenge Target metrics
- 9.6 Building for a healthy life planning context
- 9.7 Public engagement
- 9.8 LETI Climate Emergency Design Guide
- 9.9 Street Types

9.1 DEFINITIONS + TERMINOLOGY

## 9.1 | DEFINITIONS + TERMINOLOGY

ASHP	Air-sourced heat pump. Works like a refrigerator; efficiently transfers heat from outside to inside a building.
Biodiversity	The number and types of plants and animals that exist in a particular area or in the world generally.
Biodiversity Net Gain	(BNG) is an approach to development that leaves biodiversity in a better state than before (The Chartered Institute of Ecology and Environmental Management).
BHL	Building for Healthy Living (formerly Building for Life 12 – BfL12)
Context	The physical surroundings, natural or man-made, within which a building or space might be created.
DBC	Darlington Borough Council
DC	Design Code – this document.
Design Code	A document that sets rules for the design of a new development, generally more detailed than other policy documents.
Design Review	A "peer review" system to maximise the design quality and sustainability of proposed schemes. Best undertaken at RIBA Stage 2.
DPH	Dwellings per hectare
DLUHC	Department for Levelling Up, Housing and Communities (Formerly Ministry of Housing Communities and Local Government - MHCLG)
EA	Environment Agency
GV	Garden Village

HE	Homes England
LETI	A network of over 1000 built environment professionals that are working together to put the UK on the path to a zero carbon future.
MMC	Modern Methods of Construction (low energy, sustainable, generally part factory manufactured buildings)
PV	Photo-voltaic panels - convert solar energy into electricity, which can then be stored/used on site or exported to the grid.
RAG rating	Using Red Amber Green "traffic light" system to identify compliance with assessment criteria
RIBA	The Royal Institute of British Architects
RIBA Stage 2	The 2nd Stage - Concept Design - of the RIBA Plan of Work which separates the design & development process into 7 stages.
ROW	Public Right of Way
SPD	Supplementary Planning Document - built upon and providing more detailed advice or guidance on policies in the adopted local plan
SuDS	Sustainable Urban Drainage
ТСРА	Town and Country Planning Association
Thermal mass	The measure of a building material to maintain its heat capacity. Generally, high thermal mass stabilises internal temperatures.
Urban Design	The design of the spaces and places created by groups of buildings (What the public most readily think of as "planning").
Whole Life-Cycle Carbon (WLC)	Whole Life-Cycle Carbon (WLC) emissions are the carbon emissions resulting from the materials, construction and the use of a building over its entire life, including its demolition and disposal.

## 9.2 | LOCAL CONTEXTUAL CHARACTER INFLUENCES



## 9.2 | LOCAL CONTEXTUAL CHARACTER INFLUENCES

Historical precedents from local villages around Darlington can help inform the urban design of the new garden village when developing key public realm spaces and related building typologies for the emerging character areas.

These include Bishopton; Brafferton; Great Burdon; and Hurworth on Tees. Also formerly distinct villages like Cockerton and Haughton le Skerne now enveloped by Darlington's urban expansion.

Possible urban design learning opportunities include:

- benefits of locally distinctive shaped community green spaces as

focus of development

- subtly varied built form frontages of predominately terraced or link dwellings onto feature spaces like a village green which could be more linear and not necessarily with parallel street sides
- set piece frontage plot alignments can be 'backed up' by denser development blocks like an 'absorbed' local village
- advance planted green spaces anticipating future phases to achieve a 'mature' setting with established trees
- simple 'toolkit' for the materials

pallete; fenestration and elevational detailing to create distinctive & varied places

- the stronger the spatial typology the less likelihood of car parking provision dominating
- combination of various degrees of enclosure at key entrances with an open aspect for beneficial longer views as well as strengthening the built edges as they transition into the wider landscape
- similarly 'vista closers' by built structures within set piece community spaces potentially offering supporting uses consistent with a 20 min walkable

neighbourhood

- larger scale buildings like a village hall or church were not always placed centrally but to one side (near the entrance) or even behind the main linear development
- focal residential uses like traditional manor houses can either be on the main village green or space
- or set behind within a parkland contributing to the wider setting Cockerton notably still retains the strong village green structure and much of the original sense of enclosure

## 9.3 | THINKPIECE SUMMARIES

## 9.3.1 | HEALTH + WELL-BEING



## **Key Principle**

Putting Health into Place must be a Golden Thread running through the statutory approvals process, development, delivery, subsequent occupation and use of future developments.

## **Thinkpiece Summary**

This Thinkpiece identifies 5 key factors that must be considered in the design and delivery of any future developments as summarised below:

## 01. Putting Health into Place

A series of publications produced by NHS England and other partners that capture the findings of the Healthy New Towns Programme. It provides 10 principles that cover the following; planning, assessment and involvement; design, delivery and management; as well as development and provision of Health Care Services.

## 02. Building for a Healthy Life

The key measure of design quality for developments such as this.

## 03. 2 Hours of Nature

New research that could confirm

two hours in nature could join five a day of fruit and veg and 150mins of exercise a week as official health advice.

## 04. 20 Minute Neighbourhoods

An idea that has been gaining momentum for several years with an increased interest following COVID-19 pandemic lockdowns. The TCPA are working with a range of partners to help councils and communities introduce 20 minute neighbourhoods. The aim is to create attractive, interesting, safe and walkable environments in which people of all ages and levels of fitness are happy to travel actively on a daily basis.

## 05. Biophilic Design

Biophilic Design is a design concept that relies on the idea of building and nurturing the relationship between people and nature.

The main principles of Biophilic Design relate to provision of vegetation, water features, natural and permeable materials, good ventilation, biomorphic shapes and more outdoor space.

## **9.3.2 | MOVEMENT**

## **Key Principle**

The overarching vision is to build on this strong foundation by promoting active travel so that walking and cycling are an instinctive choice for all ages from 8 to 80 undertaking everyday short journeys.

## **Thinkpiece Summary**

A key policy driver is 'Gear Change' the government's bold vision for cycling and walking in England.

This requires that the design of any major residential development must ensure that movement networks and routes for those travelling by cycle or on foot will incorporate the five core principles and will be Coherent, Direct, Safe, Comfortable and Attractive catering for the broadest range of people

Active Travel England will be a statutory consultee on major planning applications to ensure that the largest new developments properly cater for pedestrians and cyclists.

The 20 minute neighbourhood is about designing compact permeable

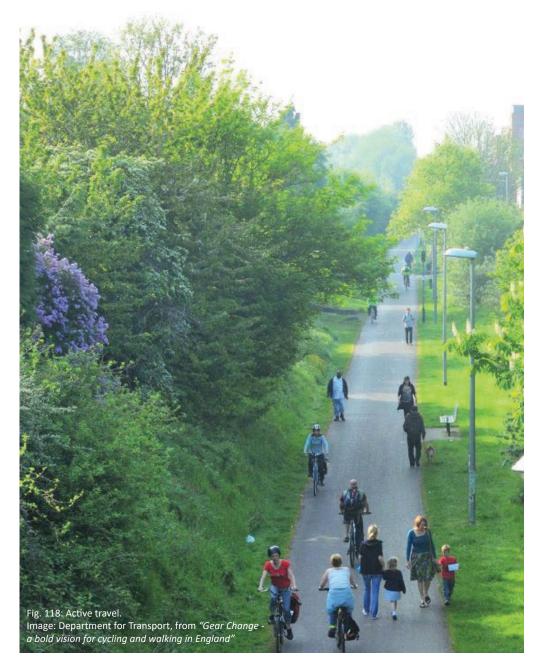
blocks of development that include non- residential uses and create direct and legible walking and cycling routes between where people live and where they want to go to. It requires a realistic assessment of the walking time/distance between places.

## **Public Transport**

There are several things to take into account to take a realistic view of public transport:

- + The first is about accessibility to existing and potential bus services.
- + The streets would ensure all homes could be within 400 metres of a bus stop.
- + When will a (useful) bus service be operated into the development and who will meet the costs until a service is viable.

The risk is that behaviours will established e.g. use of car before services can be justified and the plan must consider the need to relate house completions to the **funding** of bus services.



## 9.3.3 | WALKABILITY + NON-RESIDENTIAL USES



## **Key Principle**

A greater emphasis on the location and scale of non-residential development within the proposed Garden Village can significantly increase walkability and contribute to more successful placemaking.

## **Thinkpiece Summary**

The Darlington Local Plan states that the Skerningham Garden Village must include the following:

- + A centrally located and well connected neighbourhood centre providing local community facilities including a health hub for GPs and Dentists, clustered with other facilities and services to meet the day to day needs of residents, education, employment opportunities, retail and food and drink.
- + Other local community facilities to serve residential areas as required, closely related to public transport, walking, and cycling facilities, and shall be delivered in accordance with the infrastructure phasing plan.
- + Two primary schools, associated

nursery provision (5.6 ha) and a reserved space for a secondary school (5 ha).

It is important to consider how can we ensure that all of these non-residential uses are of a scale and location that will that will encourage walkability, achieve a 20 minute neighbourhood, and improve viability.

- + Case studies demonstrate that a focus on building a place and not just homes can result in a very walkable neighbourhood with the many benefits that brings of a mixed use development including healthier lifestyles, local employment, support for the local shops and services.
- + A Stewardship business model adopted in other places has enabled early provision of community and other services.

Fig. 119: "Pedestrians First: Tools for a Walkable City"

## 9.3.4 | DISTRIBUTOR ROAD

## **Thinkpiece Summary**

The Darlington Local Plan requires that a Distributor Road between the A167 and the A1150 close to the Little Burdon roundabout is provided in a number of stages.

The role of this Distributor Road is understood to be:

- + to provide access to the Garden Village development areas in phases from each end and:
- + when complete it will act as a

sustainable transport link to provide some relief to the existing routes A167 and A1150.

The challenge is to achieve a balance between these two roles and to achieve this the following guiding principles must shape this road.

+ It will be designed for low traffic speeds with speed limit of no more than 40mph. It will look like a road that is part of a garden village and not a high speed bypass and must emphasise a sense of place.

- + A number of compact roundabout junctions on the Local Distributor Road will be the only vehicular access points to the development and local street network
- + The way in which the road connects with Barmpton lane and/ or Bishopton Lane will require careful treatment to minimise the attractiveness of this existing road as an alternative vehicular route for development and construction traffic.
- + Properties will face the road accessed from service roads with landscaping and trees giving an Avenue feel.
- + Sensitive crossing of Important green infrastructure corridors as part of the footpath, cycleway and bridleway network will be required.
- + The eastern part built initially as a construction only haul road.

These guiding principles are expanded in section 4.1 Movement.





## 9.3.5 | GARDEN COMMUNITIES

## **Key Principle**

Garden communities are environments designed to promote community inclusion and walkable, sociable, vibrant neighbourhoods. Community is at the heart of the garden communities philosophy.

### **Thinkpiece Summary**

Designed for the 21st century, garden communities reflect and respond to the opportunities offered to place-making, living and working by technology and data, while addressing both climate change and climate resilience. Self-sustainability is put into practice through active, healthy lifestyles embodied in walking and cycling, locally grown produce and locally based employment and services.

Garden communities are founded on ten key principles:

- 01. Land value capture for the benefit of the community.
- 02. Strong vision, leadership and community engagement.
- 03. Community ownership of landand long-term stewardship of assets.04. Mixed-tenure homes and housing

types that are genuinely affordable.

- 05. A wide range of local jobs in the garden village within easy commuting distance of homes.
- 06. Beautifully and imaginatively designed homes with gardens, combining the best of town and country to create healthy communities, and including opportunities to grow food.
- 07. Development that enhances the natural environment, providing a comprehensive green infrastructure network and net biodiversity gains, and which uses zero-carbon and energy-positive technology to ensure climate resilience.
- 08. Strong cultural, recreational and shopping facilities in walkable, vibrant, sociable neighbourhoods.
- 09. Integrated and accessible transport systems, with walking, cycling and public transport designed to be the most attractive forms for local journeys.
- 10. Provision of comprehensive and future-proof digital connectivity to support the use of smart technology.

## 9.3.6 | HAMLETS + STRING OF PEARLS

### **Key Principle**

Consider developing the area as a Garden Village, comprised of a series of discrete hamlets, all with defined edges, their own character (under an over-arching architectural theme), and individually named.

The opportunity for the hamlets to be linked to form a circuit-linear new village can be explored, treated as a" string of pearls", linked to each other by Footpaths, Cycleways and Roads.

## **Thinkpiece Summary**

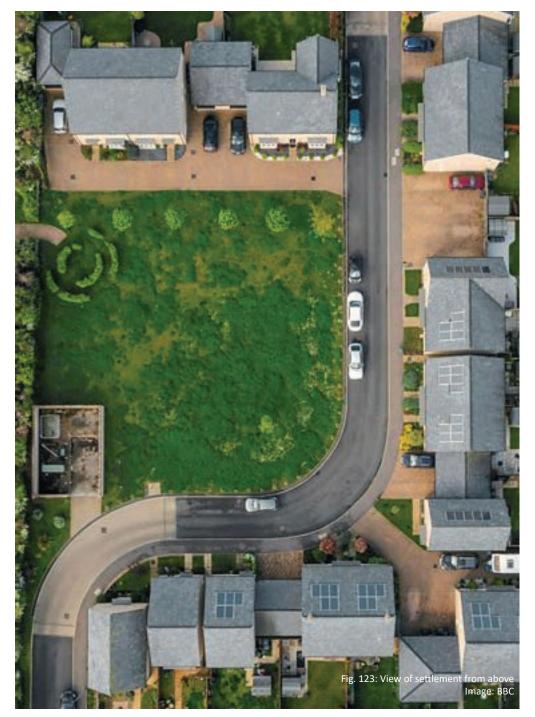
The overall development must have a unique sense-of-place, that is distinctive and, through its composition, form, and materials whilst also being grounded in the locale.

- 01. This DOES NOT mean slavishly copying and replicating "historic" building forms.
- 02. The **core settlement must be clearly identifiable** as the heart of the settlement. Its form and

character need to reassure people that they have arrived at the centre of the village.

- 03. Ideally, the village core settlement must be established early and as soon as possible start offering residents the full range of services required by the new community.
- 04. The hamlet edges must be outwards-facing into the green space network and avoid at all costs presenting rears of buildings and back-gardens to public view.
- 05. "Defined edges" means that a hamlet can be completed without the need to have a "meanwhile" use or edge solution.
- 06. Hamlets can be **developed as** and when demand occurs and the Design Code could by being reviewed and updated, morph to accommodate different thinking over time.





# 9.3.7 | DEVELOPMENT DENSITIES

# **Thinkpiece Summary**

The density range for different scale housing will be influenced by the adopted Local Plan and existing site context. With the ambition for a high percentage of overall green space, an initial assessment of likely development densities in a 'typical' new garden village suggests the following indicative range excluding open space:

# Low density - c. 25 - 30/35 dwellings per hectare (DPH)

Promoting an essentially green organic character - more reflective of the natural 'found' context - providing a spacious development form with a higher proportion of semi-detached & detached dwellings

Reminiscent of a traditional hamlet and likely to be confined to a few special locations.

# Medium density - c. 35 - 45 DPH

This range of development typically offers greater legibility to and from the lower and higher density areas within the wider garden village.

It still maximises opportunities for homes to overlook open spaces and characterful streets; provides a high degree of permeability; and encourages a positive mix of more generous groupings and tighter urban living.

High Density - c. 45 - 55/60 DPH Typically these must reinforce the core of development areas promoting urban living relative to the setting.

There will generally be a tighter urban grain of streets and spaces with greater use of terrace and linked properties.

This is still consistent with the centre of a typical traditional village whilst promoting efficient use of land together with 20 min. walkable neighbourhoods which can still abut generous greenspace.

Local and Neighbourhood Centres – typically up to c. 80 DP

# 9.3.8 | HEALTHY NEW TOWN PRINCIPLES

# **Key Principle**

The learning from the Healthy New Towns programme in which Darlington was a pilot has been distilled into 10 principles within three key areas of guidance that must inform the Garden Village.

# **Thinkpiece Summary**

This think piece suggests how some of the 10 principles must be applied to Skerningham.

The key principles that are particularly relevant to the Skerningham Design Code and must be reflected in it are;

Principle 4 Creating Compact neighbourhoods-compact spaces and places with services to maximise use and impact with multi-functional green spaces **Principle 5** Maximise active travelembedding active travel from the first phases

Principle 7 Foster health in homes and buildings-provide suitable homes that are healthy and efficient, workplaces that stimulate productivity efficiency and resilience and educational settings that support growth and development and community hubs that support health and connections

**Principle 8** Enable healthy play and leisure-Create play, leisure, and community activity spaces for all and enable

**Principle 10** Create integrated health and well -being centres – ensure a joined up approach to the provision such services to serve Skerningham and adjacent existing communities.





# 9.3.9 | NATURE BASED CODING

# **More Nature: Thinkpiece Summary**

Globally we need to protect and reinstate more land for nature to safeguard natural systems from micro-flora and flora in soil to birds in the sky, and all between. Previous estimates of 30% of the planet's surface required to recharge nature was recently recommended by Science to exceed 45%.

What would somewhere look like where EVERY item contributed to nature?

- + Bus stops with green roofs
- + Bin stores with bug wall enclosures
- + Swift and sparrow colonies on gable end
- + Bat tiles in roofs
- + All rainwater run off by SUDS
- + Could waste water be treated locally through nature based solutions to recharge aquifers for irrigation?
- + Feasibility of storm water retention by beaver introduction in the Skerne Valley
- + Pesticide free street weeding as with 80 UK councils with wildflower colonisation and management to keep accessible

- + Reinforced grass vehicle surfaces
- + Green walls and roofs
- + Celebrate 'scruffy' undisturbed areas for wildlife to flourish
- + Stop potential nutrient flow from farmland into waterways

The principle of retaining the most valuable ecological resources and connecting them across a site by means of wildlife corridors is critical for genetic diversity and healthy populations of wildlife.

Woodland must be retained from a BNG metric and Carbon perspective, acknowledging food security what is therefore the most and least valuable farmland to be retained?

Work iteratively with project ecologists.

The more appealing the destination is, the closer it is to daily life and the further away from busy roads, the greater the uptake will be. 'Wildlife corridors for people' must be created. The Skerne Valley Park would be a critical aspect of Skerningham's identity.

# Immersing People in Nature: Thinkpiece Summary

We need to balance a healthy ecological place that supports more wildlife with a place to live and spend at least 2 hours a day 'in nature' for the benefit of individual lives, maintaining landscape character and enhancing biodiversity as evidence shows:

- + Psychological effects, make us feel healthier, happier and more fulfilled;
- + Behavioural responses encourage us to make active life choices;
- + Physiological, medicinal relationships from the air we breathe

- called 'Forest Bathing' in Japan.

It is vital to establishing places and

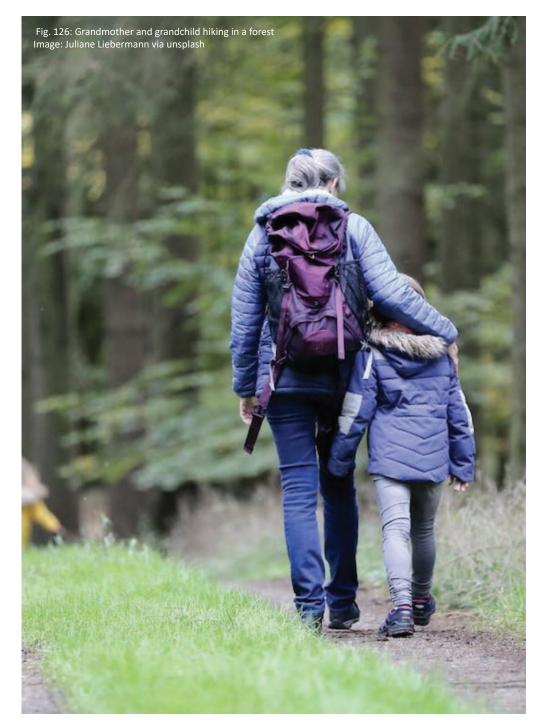
It is vital to establishing places and routes people currently perceive and value as 'nature'. Supported by ecological and landscape design, memory-mapping must be central to masterplanning. The immersion of people in nature can be seen as 3 tiered within green infrastructure:

- 01. The environment to live, learn, work or receive services;
- 02. Places to visit for recreation or exercise;
- 03. Transport routes pedestrian, cycle and vehicle.

The more appealing the destination is, the closer it is to daily life and the further away from busy roads, the greater the uptake will be. 'Wildlife corridors for people' must be created.

There are many requirements of healthy placemaking and within green infrastructure it is important that ecological planning does not turn its back on the principle of creating lively spaces and streets with active frontages.

A hybrid green urbanity must be created, with urban focuses enjoying green connectivity and rural outlook.



# Small scale housing Operational energy Heating and hot water Demand response Peak reduction 10-15% 10-15% 0.08 - 0.10 20-25% 10-15% Exposed ceilings/floors 0.13 - 0.18 Active demand response measures 0.80 (triple a Air tightness Thermal bridging 0.04 (y-value) Flectric vehicle (FV) charging **Embodied carbon** Data disclosure Average split of embo 1. Submeter renewables for energy generation Collect annual building energy consumption and generation 2. Submeter electric vehicle charging Submeter heating fuel (e.g. heat pump consumption) 4. Continuously monitor with a smart meter For multiple properties include a data loggi-alongside the smart meter to make data sharing possible. 1977 End of life disposal (CLCA) 5. Consider uploading to Low Energy Building Medium and large scale housing Operational energy Heating and hot water Demand response 10-20% 0.08 - 0.10 0.10 - 0.12 0.13 - 0.18 20-25% 1.0 (triple glazina Air tightness Thermal bridging G-value of glass 0.04 (y-value) 0.6 - 0.5 Electric vehicle (EV) charging 0 **Embodied carbon** Data disclosure Submeter renewables for energy generation 21% Substructure Submeter heating fuel (e.g. heat pump consumption) Consider monitoring internal temperatures Upload five years of data to GLA and/or CarbonBuzz online platform

End of life disposal (C1-C4)

Fig. 127: Design guide diagrams from LETI Larger diagrams provided in Appendix 9.8

# 9.3.10 | CLIMATE RESILIENT BUILDINGS

# **Key Principle**

Climate change is happening now. It is one of the biggest challenges of our generation.... As we redouble our efforts to achieve net zero, we must also continue to raise ambitions on adaptation to ensure the UK is resilient to the challenges of a warming world.

# **Thinkpiece Summary**

The importance of Designing for Climate Resilience is clear and must be at the forefront in design consideration for any development. As one of the Garden Villages Design Principles laid out in The Art of building a Garden City (Henderson, Lock, Ellis) it has particular relevance to Skerningham.

New homes must be built to be low-carbon, energy and water efficient and climate resilient. The costs of building to a specification that achieves these aims are not prohibitive, and getting design right from the outset is vastly cheaper than forcing retrofit later. In accordance with the Future Homes Standard, from 2025 at the latest, no new homes must be connected to the gas grid. They must instead be

heated through low carbon sources, have ultra-high levels of energy efficiency alongside appropriate ventilation and, where possible, be timber-framed.

UK housing: Fit for the Future? Committee on Climate Change 2019

This was published more than 3 years ago and this is still very relevant and sadly only small incremental step have been made since then.

The positioning of buildings on site, orientation, form factor and genuine fabric first approach with integrated renewable or district heating system all contribute to climate resilience. Climate resilient buildings need to go beyond building regulations particularly anything that purports to be exemplar. Meeting building regulations, to some, is a race to the bottom, trying to get as near to the standard so only just being compliant. In other words, it is deemed acceptable that our new housing stock is only just legal. Coupled with the performance gap that the 'Fit for the Future' report describes many could fall below this.

# 9.3.11 | PLAY, RECREATION + SPORT

# **Thinkpiece Summary**

The greatest impact on community health is through improving behaviour patterns of the least active. Masterplans can invite exploration and enjoyment of nature, encourage active transport, outdoor play and participation in formal and informal play. Through a little extra thought, infrastructure can be designed so as to become a nudge rather than a barrier to activity.

Organisations such as Sport
England, UK Active, NHS England,
the International Physical Literacy
Association and Making Space for
Girls provide excellent guidance
and case studies in the planning,
community consultation, design and
management of places that appeal to
as broad a range of the population as
possible - safe for all ages, genders,
cultures, interests and levels of
physical ability.

Through being place responsive, environments must be playable,

inviting a sense of adventure and exploration that aids physical development, promotes social interaction, safeguards user safety and safe testing of risk.

In establishing the need for facilities it must be recognised that core sports are not for everyone and no two locations or communities are the same, the traditional planning-led top-down sports dominated offer must be balanced by the needs of the wider population to achieve an active lifestyle. Informal use of public spaces, footpaths, cycleways and the services such as refreshment and toilets must be provided in appropriate locations.

There must be a mechanism within the planning process, spaces within applications and appropriate development funding to test what the community wants and thus avoid under-utilised sports, play and outdoor gym equipment in inappropriate locations.





9.4 | REFERENCE MATERIAL

# 9.4 | SELECTED REFERENCE MATERIAL

Building For A Healthy Life [BFL]. Design for Homes, 2020 The National Design Guide, MHCLG, 2021 TCPA Publications (various), search by topic at tcpa.org.uk/resources National Model Design Code, MHCLG, 2021 RIBA 2030 Challenge Target, version 2, 2021 Guidance Notes for Design Codes, MHCLG, 2021 The Art of Building a Home, Parker & Unwin, 1901 Urban Design Compendium, Third Edition - HCA with studio real (2013) Upton Design Code, Northampton Borough Council, Version 2, 2005 Safer Places: The planning system and crime prevention ODPM, (2004) Arbury Design Code, SPD, Nuneaton & Bedworth Council, January 2022 The National Planning Policy Framework [NPPF], MHCLG, 2021 Northstowe Phase 2 Design Code, Tibbalds, 2017 By Design - Urban design in the planning system: towards better practice -Commission for Architecture and the Built Environment (CABE), (2000) DESIGN COUNCIL A Public Vision for the Home of 2030 Garden Communities Prospectus MCHLG, 2018 The Cool Sea (The summary report and toolkit of the Waterfront Communities Project Interreg3b) ISBN 0 901273 40 6 (2007) Architecture & Design Scotland, Typologies Series, search by topic Manual for Streets - Department for Transport, and Community and Local Homes England Garden Communities Toolkit (September 2019) Government, (2007) Life Between Buildings: Using Public Space - Jan Gehl (2006) 10 Characteristics of Places where People want to Live, RIBA, 2018 Streets for a Healthy Life: A companion guide to Building for a Healthy Life Responsive Environments: a manual for designers, Routledge, London. (1985) (Issue 01, Homes England Sport England Active Design checklist - October 2015 Preparing Design Codes, CABE/DCHLG, RIBA 2006 Design Code Pathfinder Programme Support Grant Prospectus Rev A, DLUHC, Sport England Handbook Designing for physical activity - December 2021

8 July 2022

9.5 | RIBA CLIMATE TARGET METRICS

# 9.5 | RIBA 2030 CLIMATE TARGET METRICS

# RIBA 2030 Climate Challenge target metrics for domestic buildings

RIBA Sustainable Outcome Metrics	Current Benchmarks	2020 Targets	2025 Targets	2030 Targets	Notes
Operational Energy kWh/m²/y	146 kWh/m² /y (Ofgem benchmark)	<105 kWh/m²/y	< 70 kWh/m²/y	< 0 to 35 kWh/m²/y	UKGBC Net Zero Framework  1. Fabric First  2. Efficient services, and low-carbon heat  3. Maximise onsite renewables  4. Minimum offsetting using UK schemes (CCC)
Embodied Carbon kgCO <sub>2</sub> e/m <sup>2</sup>	1000 kgCO <sub>2</sub> e/m <sup>2</sup> (M4i benchmark)	< 600 kgCO <sub>2</sub> e/m <sup>2</sup>	< 450 kgCO <sub>2</sub> e/m <sup>2</sup>	< 300 kgCO <sub>2</sub> e/m <sup>2</sup>	RICS Whole Life Carbon (A-C)  1. Whole Life Carbon Analysis  2. Using circular economy Strategies  3. Minimum offsetting using UK schemes (CCC)
Potable Water Use Litres/person/day	125 l/p/day (Building Regulations England and Wales)	< 110 l/p/day	< 95 l/p/day	< 75 l/p/day	CIBSE Guide G

# RIBA 2030 Climate Challenge target metrics for all buildings

Best Practice Health Metrics	20		References
Overheating		25-28 °C maximum for 1% of occupied hours	CIBSE TM52, CIBSE TM59
Daylighting		> 2% av. daylight factor, 0.4 uniformity	CIBSE LG10
CO <sub>2</sub> levels		<900 ppm	CIBSE TM40
Total VOCs		< 0.3 mg/m <sup>3</sup> )	Approved Document F
Formaldehyde		$< 0.1 \mathrm{mg/m^3})$	BREEAM

# RIBA 2030 Climate Challenge target metrics for non-domestic buildings

RIBA Sustainable Outcome Metrics	Current Benchmarks	2020 Targets	2025 Targets	2030 Targets	Notes
<b>Operational Energy</b> kWh/m²/y	225 kWh/m²/y DEC D rated (CIBSE TM46 benchmark)	< 170 kWh/m²/y DEC C rating	< 110 kWh/m²/y DEC B rating	< 0 to 55 kWh/m²/y DEC A rating	UKGBC Net Zero Framework 1. Fabric First 2. Efficient services, and low-carbon heat 3. Maximise onsite renewables 4. Minimum offsetting using UK schemes (CCC)
Embodied Carbon kgCO <sub>2</sub> e/m <sup>2</sup>	1100 kgCO <sub>2</sub> e/m <sup>2</sup> (M4i benchmark)	<800 kgCO <sub>2</sub> e/m <sup>2</sup>	< 650 kgCO <sub>2</sub> e/m <sup>2</sup>	<500 kgCO₂e/m²	RICS Whole Life Carbon (A-C) 1. Whole Life Carbon Analysis 2. Using circular economy Strategies 3. Minimum offsetting using UK schemes (CCC)
Potable Water Use Litres/person/day	>16 l/p/day (CIRA W11 benchmark)	< 16 l/p/day	<13 l/p/day	<10 l/p/day	CIBSE Guide G

9.6 BUILDING FOR A HEALTHY LIFE PLANNING CONTEXT

# 9.6 | BUILDING FOR A HEALTHY LIFE PLANNING CONTEXT

Integrated Neighbourhoods	National Planning Policy Framework	National Design Guide	
Natural connections	91a; 102c and e; 104d; 127b; 127f	B3; M1; M2; N1; R3	
Walking, cycling and public transport	20c; 91a; 91c; 127e	B1; B3; M1; R3	
Facilities and services	102; 103	B1; B3; N1; P3; U1; U3	
Homes for everyone	60-62	B1; B2; U2; U3	
Distinctive Places			
Making the most of what's there	122d; 127c; 127d; 153b; 184	C1; C2; I1; B2; R3	
A memorable character	122d; 127c; 127d	C2; I1; I2; I3; B3	
Well defined streets and spaces	91a	B2; M2; N2; N3; P1; P2; H2; L3	
Easy to find your way around	91b; 127b	I1; M1; M2; U1	
Streets for All			
Healthy streets	91b; 102c and e; 110a-d	M1; M2; N3; P1; P2; P3; H1; H2	
Cycle and car parking	101e; 127f; 105d	B2; M1; M3	
Green and blue infrastructure	20d; 91b; 91c; 127f; 155; 170d; 174	C1; B3; M1; N1; N2, N3; P1; P3; H1; R3; L1	
Back of pavement, front of home	127a-b; d; f	M3; H3; L3	
Generally	7; 8; 124; 125; 126; 127; 130	15; 16; 17; 20-29; 31-32	
Using the tool as a discussion tool	39; 40-42; 125; 128; 129		

The relationship between Building for a Healthy Life, the National Planning Policy Framework and the National Design Guide.

# 9.7 | PUBLIC ENGAGEMENT

# 9.7 | PUBLIC ENGAGEMENT

# **Public Engagement**

Section 3.2 of the main document sets out a short summary of how the Community Engagement approach has helped to shape the Design Code through seeking to involve both the residents of Darlington as a whole and the local communities adjacent to the proposed Garden Village.

This appendix provides more detail about the community engagement and what we, designe ltd, have learned.

# **Initial Public Meeting**

The community engagement was launched at an initial public meeting in the Dolphin Centre, Darlington March 24 2022.

The purpose of this first session, which was attended by about 50 people, was to set the scene by explaining the process, outlining the engagement programme, timescale and opportunities for input as follows:

# What has happened?

- + Local plan for Darlington agreed.
- + Garden Village at Skerningham agreed.
- + Design Code (DC) for Garden Village to be produced before any planning applications.
- + Darlington Council adopts Local Plan.
- + Darlington Council appoints designe Itd to develop DC.
- + Skerningham DC to act as a national pilot.

# What happens next?

- + designe Itd to engage with locals over the next few months to develop DC.
- + Good quality engagement where people feel involved and informed.
- + DC to include tangible 'stuff' that people can see is theirs.
- + Exemplary DC for Skerningham.
- + Code adopted as Supplementary Planning Guidance (SPD).

# What is going to happen?

+ designe Itd to facilitate and guide

community engagement in the process.

- + designe Itd to help understanding of DCs.
- + designe Itd to hold face-to-face workshops in the area.
- + designe Itd to provide material to facilitate engagement, including opportunities to engage and comment online.

# What is a Design Code?

- + Visual tool to inform development proposals.
- + Look and feel of a development
- + Maximum clarity about design expectations.
- + Reflects local character and preferences.
- + Framework to ensure high quality.
- + Encourages best of modern design and build techniques.

# Call to Action - Your opportunity to influence

# What can you influence?

+ The future quality of this area.

- + The mix of development and green space.
- + The priority given to nature and biodiversity.
- + Priority given to active travel.
- + What the streets will look like.

# How we will engage with you

- + Inclusive, clear, and transparent.
- + Empower you to inform the proposals.
- + Actively listen.
- + Build trust.
- + Creative, bold, ambitious.

# What we mean by 'you'

- + People who live or work in Darlington.
- + People of all ages.
- + People who live near Skerningham.
- + People in recent developments.
- + Employers in Darlington.

# Introducing some of the material / documents we will draw on

- + The guiding Principles of Garden Villages.
- + The National Design Guide.
- + Building for a Healthy Life.

# Workshop 01 (26+28 April 2022)

The first face-to-face workshops were held on 26 April at Oban Court and on 28 April at Harrowgate Club and Institute in the residential areas close to Skerningham.

The initial workshops were designed to build capacity in the local community to engage with the process of developing a DC.
Starting with raising awareness of the ten characteristics of well-designed places from the National Design Guide, their relevance to Skerningham, and how to identify things that are important or concerns about the area that must be considered for inclusion in the DC.

The aim was to encourage a positive discussion about the potential to influence the quality and successful creation of Skerningham Garden Village and to illustrate the relationship between the public engagement and the development of the DC.

The following proposed outcomes for the Public Engagement were shared and agreed at the outset:

- + An exemplary DC for Skerningham.
- + Good quality engagement so that people feel involved and informed.
- + Tangible 'stuff' in the code that people would recognise as theirs.

Participants were encouraged to bring any material, such as photos, that would inform the workshop. The format was informal with a mixture of presentation and group working with participants around tables in mixed groups. Following table discussions about the 10 characteristics and relevance to Skerningham, the groups were then invited to select 3 of them to consider and agree for each an opportunity and a concern for at least 3 of the characteristics that a design code for Skerningham Garden Village must take account of.

It was acknowledged that some

participants may have felt uncomfortable about speaking out in the groups and may have preferred to provide their own input at the workshop or via the dedicated email address for the Skerningham project.

It was explained that the presentations and the unedited responses would be circulated and posted onto the website followed by an invitation for those unable/ or who did not wish to attend these first face to face workshops to study the presentation and make an initial input on- line on opportunities and concerns. The designe ltd team undertook some basic analysis to present at the next meeting.

The follow up workshops were scheduled at a slightly later time to allow people to come after work and would then focus on key local preferences and things to include or take account of in the development of a design code for Skerningham.

# The informal workshops will be held in two places, with the same content at each:

# **TUESDAY 26 APRIL**

Oban Court Care Home, Whinfield, DL1 3PT from 6-8pm.

# **THURSDAY 28 APRIL**

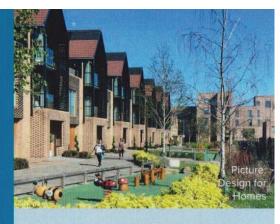
Harrowgate Club and Institute, Salters Lane North, DL1 3DT from 6-8pm.

There are also plans for follow on workshops in the week of May 16.

The first workshop will explain about the characteristics of well-designed places and how to identify things that are important or concerns about the area to be developed as Skerningham Garden Village.

The follow up workshops will then focus on local preferences and things to include or take account of in the development of a design code for Skerningham.

The findings of these workshops would then be fed into the development of the design code.



# Do I need to bring anything to the workshops?

You are welcome to bring any material, such as photos, that would inform the workshop.

# How can I book a place?

Booking will be on a first come, first served basis. If you are part of a wider interest group it may be helpful to consider designating a few to represent your group at the workshops.

Please email **skerninghamdesign@ darlington.gov.uk** with your details and indicate which venue you prefer.

If you do not have access to email please call **01325 406724**.



# Workshop 02 (19 May 2022)

The first part of the second workshop included a short presentation of the material from the earlier workshops, for the benefit of those who were unable to attend the initial workshops and as a reminder to those who did attend.

It was confirmed that the extensive and broad ranging thoughts on opportunities and areas of concern identified by the group discussions at both sessions had been sent to the participants and were available on the website.

A basic analysis of the findings; the 'what you told us'; the outcome of table discussions; and what we have done with it, was presented and this indicated in particular the local importance of access to nature in the adjacent countryside, good, connected footpath and cycle networks, minimal impact on existing

communities and a good mix of housing designed for climate change.

Having identified the main areas of concern or opportunity this enabled the groups, with the benefit of the combined material, to focus more clearly on the key local preferences and things to include or take account of in the next stage of developing of a DC for Skerningham.

It became evident during this session that some participants felt either that they did not have enough information or enough time to consider the issues adequately.

As a result it was agreed to hold a further workshop to continue the discussion and prioritisation of key local preferences and also to clarify what the Local Plan says about Skerningham. In other words the 'Fixes'.

# Workshop 03 (09 June 2022)

Participants were encouraged to form the same groupings as the last time and new participants will join those groups or form new groups depending on numbers. With a facilitator at each table to help answer questions /clarify points the workshop was based around three main parts.

O1. The first part clarified what the adopted local plan says about Skerningham. In other words what are the 'fixes'? These were shown on a large plan of the area. The relationship between the adopted Local Plan, the preparation of the Skerningham Garden Village DC, Subsequent Supplementary Planning Document, and a Masterplan for Skerningham was also explained.

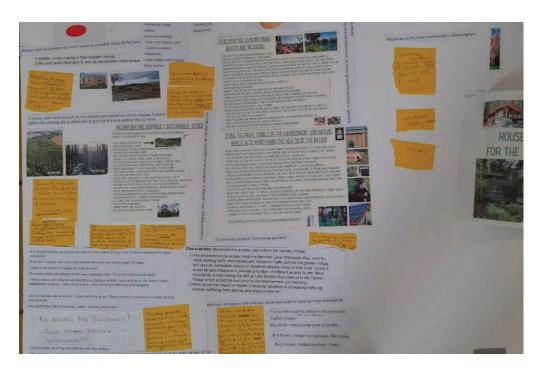
02. The second part focused on further refining what is felt to be important locally. The previous workshops had made great progress in identifying and prioritising local preferences in relation to the 10

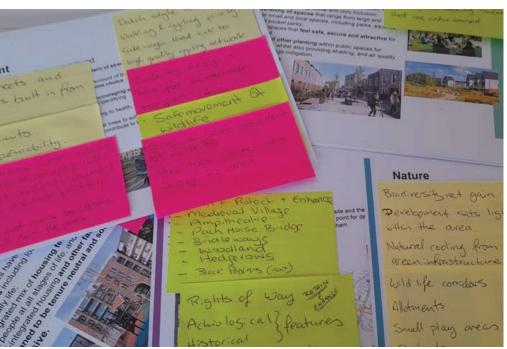
characteristics of well-designed places that will form the framework for the DC. The groups were requested to further refine local preferences into red (no-go issues), amber, or green categories. At the last workshop one of the groups put helpful comments on a number of the photos that were available on the tables. Large scale plans of the area were on the tables and groups were encouraged to draw on these to show anything they think would be useful such as walking routes and permeability with existing key development, special sites.

03. The third part was to illustrate what a DC would look like, explain next steps in the preparation of the code and the purpose of the next workshop on 30 June.

The red, amber, green responses are illustrated by the photo of the work of one of the groups and the photo illustrated likes and dislikes of some of the images circulated.







# Workshop 04 (30 June 2022)

The fourth phase of public engagement meetings and workshops was held on 30 June Participants were thanked for great progress made over the course of the last few weeks at the previous workshops in identifying and prioritising local preferences in relation to the 10 Characteristics of Well- Designed Places that will form the framework for the Design Code.

At workshop on 9 June in discussion groups at the tables groups further refined what is felt to be important locally and indicated in a traffic light system the relative importance of those preferences.

It was explained that all that information has been collated and this meeting was to give feedback on as many of those points as possible and indicate whether we designe Itd think it would be appropriate to be include them in the code and how. That feedback has subsequently

informed the design code and participants will be able to see how their input has been taken into account and shaped the DC for Skerningham.

There was a discussion about how the Skerningham site could be broken down into a number of what might be called character areas, which acknowledged the different contexts across the Skerningham site could influence the style and shape of development.

Pictures of different streets and places were circulated around the tables at the workshops and participants encouraged to post comments on them.

Participants were also invited to submit which they think capture the character of Darlington and could inform the DC, some of which are in this draft.

# **Communication + Information**

Good Communication and information were critical parts of the community engagement programme. It was our intention, confirmed with feedback at the first public meeting, that communication routes to both the residents of Darlington as a whole and the local residents of the communities adjacent to Skerningham needed to by a mixture of means which recognised the variety of ways that people receive and provide comments.

The communication routes included the following:

# **One Darlington Magazine**

One Darlington the Borough Councils magazine delivered to all residents included feature articles about the proposed Garden Village and how people could get involved with developing a DC and a special section

of the Darlington website provided regular updates and useful learning material.

# A Skerningham Page on Darlington Borough Council website

A dedicated area on the Darlington Borough Council website was established to provide a continual flow of information and feedback during the engagement programme.

# A Skerningham email address

skerninghamdesign@darlington. gov.uk was established to enable anyone to send ideas, comments, or concerns. This was actively used.

# designe Itd website

The designe ltd website also included a dedicated area for Skerningham.

# **Direct to Core Group**

At the first public meeting attendees

were invited to give their email contact details so that a core communication group could be established to enable information to be provided and received. This core group grew as participants at workshops also provided contact details.

# Leaflet drops to households

In advance of each informal workshop information leaflets were delivered to over a thousand houses considered to be the local community affected by Skerningham.

# **Social Media**

Darlington Borough Council communication team gave great support to the whole communication process and used the Council's social media platform to also widely publicise the engagement programme and workshops.

9.8 | LETI CLIMATE EMERGENCY DESIGN GUIDE

# 9.8 | LETI CLIMATE EMERGENCY DESIGN GUIDE

# Small scale housing

# **Operational energy**

Implement the following indicative design measures:

### Fabric U-values (W/m<sup>2</sup>.K)

Walls 0.13 - 0.150.08 - 0.10 Floor Roof 0.10 - 0.12 Exposed ceilings/floors 0.13 - 0.18

Windows 0.80 (triple glazing)

Doors 1.00

### **Efficiency measures**

Air tightness <1 (m<sup>3</sup>/h, m<sup>2</sup>@50Pa) Thermal bridging 0.04 (y-value) G-value of glass 0.6 - 0.5

> 90% (efficiency) ≤2m (duct length from unit to external wall)

### Window areas guide (% of wall area)

North 10-15% East 10-15% 20-25% West 10-15%





Include openable windows and cross ventilation

# Reduce energy consumption to:



Reduce space heating demand to:



Energy Use

(EUI) in GIÁ,

renewable

contribution

excluding

eneray

Intensity

# Heating and hot water

Implement the following measures:



Ensure heating and hot water generation is fossil fuel free



### Heatina

Maximum 10 W/m<sup>2</sup> peak heat loss (including ventilation)



### Hot water

Maximum dead leg of 1 litre for hot water

'Green' Euro Water Label should be used for hot water outlets (e.g.: certified 6 L/min shower head - not using flow restrictors).

# **Demand response**

Implement the following measures to smooth energy demand and consumption:



### **Peak reduction**

Reduce heating and hot water peak energy demand



### Active demand response measures

Install heating set point control and thermal storage



# Electricity generation and storage

Consider battery storage



# Electric vehicle (EV) charging

Electric vehicle turn down



### Behaviour change

Incentives to reduce power consumption and peak grid constraints.

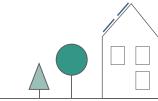


MVHR

Maximise renewables so that 100% of annual energy requirement is generated on-site



Form factor of 1.7











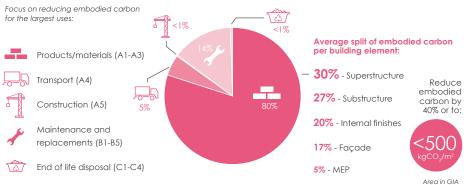








# **Embodied carbon**



# Data disclosure

Meter and disclose energy consumption as follows:



- 1. Submeter renewables for energy generation
- 2. Submeter electric vehicle charging
- Submeter heating fuel (e.g. heat pump
- 4. Continuously monitor with a smart meter
- 5. Consider monitoring internal temperatures
- For multiple properties include a data loager alongside the smart meter to make data sharing possible.



### **Disclosure**

- 1. Collect annual building energy consumption
- 2. Aggregate average operational reporting e.g. by post code for anonymity or upstream
- Collect water consumption meter readings
- Upload five years of data to GLA and/or CarbonBuzz online platform
- Consider uploading to Low Energy Building Database.

# Medium and large scale housing

# Operational energy

Implement the following indicative design measures:

# Fabric U-values (W/m<sup>2</sup>.K)

Walls 0.13 - 0.15Floor 0.08 - 0.10 0.10 - 0.12 Roof Exposed ceilings/floors 0.13 - 0.18

Windows 1.0 (triple glazing)

Doors

### **Efficiency measures**

Air tightness <1 (m3/h.m2@50Pa) 0.04 (y-value) Thermal bridging

G-value of glass 0.6 - 0.5

> 90% (efficiency) ≤2m (duct length from unit to external wall)

MVHR

Maximise renewables so that 70% of the roof is covered

Form factor of <0.8

### Window areas guide (% of wall area)

North 10-20% 10-15% South 20-25% West 10-15%







# Reduce energy consumption to:

Energy Use Intensity (EUI) in GIA. excluding renewable energy contribution

Reduce space heating demand to:



# Heating and hot water

Implement the following measures:



Ensure heating and hot water generation is fossil fuel free



### Heat

The average carbon content of heat supplied (gCO<sub>2</sub>/kWh.yr) should be reported in-use



### Heatina

Maximum 10 W/m<sup>2</sup> peak heat loss (including ventilation)



### Hot water

Maximum dead leg of 1 litre for hot water

'Green' Euro Water Label should be used for hot water outlets (e.g.: certified 6 L/min shower head - not using flow restrictors).

# **Demand response**

Implement the following measures to smooth energy demand and consumption:



### **Peak reduction**

Reduce heating and hot water peak energy demand



### Active demand response measures

Install heating set point control and thermal storage



# Electricity generation and storage

Consider battery storage



# Electric vehicle (EV) charging

Electric vehicle turn down



## Behaviour change

Incentives to reduce power consumption and peak grid constraints.



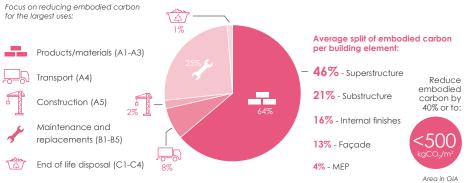








# **Embodied carbon**



# Data disclosure

Meter and disclose energy consumption as follows:



# Meterina

- 1. Submeter renewables for energy generation
- 2. Submeter electric vehicle charging
- Submeter heating fuel (e.g. heat pump consumption)
- 4. Continuously monitor with a smart meter
- 5. Consider monitoring internal temperatures
- 6. For multiple properties include a data logger alongside the smart meter to make data sharing possible.



### Disclosure

- 1. Collect annual building energy consumption and generation
- 2. Aggregate average operational reporting e.g. by post code for anonymity or upstream meters from part or whole of apartment block
- Collect water consumption meter readings
- Upload five years of data to GLA and/or CarbonBuzz online platform
- Consider uploading to Low Energy Building Database.

# 9.9 | STREET TYPES

Street Types (Prior to the publication of the revised Manual for Streets the criteria below will form the basis for street design)					
Street Type	Primary Street	Secondary Street	Tertiary Street		
Location	Main streets linking development sites to Skerningham Parkway	These will provide local distribution and direct access to homes and tertiary streets	Defined at application stage		
Direct vehicle access to properties	Yes - after the first junction from Skerningham Parkway	Yes.	Yes.		
Street Design					
Total adopted width	20-21m	14-17m.	9m minimum.		
Carriageway width	7.3m where bus and key servicing routes. 5.5m normally.	5.5m (to 7.3m where bus route).	5.5m for shared use for up to 50 units		
Footway/cycleway	Yes, 2m each. Clear separation from each and carriageway.	3m to each side.	2m footpath on both sides.		
Verge	Min 3m to both sides to include trees /swale	Min. 2.5m.			
Bus Route	Need to accommodate buses	Yes, where required.	No.		
On street parking	Parking bays within verge	Yes, designed with the verge.	Yes.		
Design Speed	20mph ( after first junction from distributor road)	20mph.	20mph.		
Traffic Calming measures	Streets will be short /broken up with junctions, changes of priority to maintain low traffic speeds	Refugees, shifts in road alignment, pinch points max of 75 m intervals	Designed to be low speed environment.		
Statutory services	To be confirmed at detailed design	Confirmed at detailed design.	Confirmed at detailed design.		
Road markings	Yes.	Yes.	No.		
Adopted	Yes.	Yes.	Yes.		
Street Landscaping					
Street trees	Yes, with verge on both sides of the carraigeway.	Yes, with verge on both sides.	Yes.		
Defensible space	Yes, min. 2m.	Yes, min. 2m defined by landscape narrative.	1-2m.		
Street Lighting	Yes, confirmed at outline stage.	Yes.	Yes, outlined at application stage.		



