

HINCKLEY NATIONAL RAIL FREIGHT INTERCHANGE

DRAFT DESIGN CODE – V3

Regulation No. 5 (2) (q)

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This Draft Design Code has been prepared on behalf of Tritax Symmetry (Hinckley)
Limited by AJA Architects with input from the following consultants:



Environmental Impact Assessment Co-ordinators
Socio-economic Consultants



Legal Advisors



Construction Consultant Project and Cost Managers



Planning Consultants



Strategic Rail Advisors



Highways, Infrastructure, Transportation, Ground, Flood
Risk, Drainage, Air Quality, Noise and Lighting Consultants



Landscape, Ecological, Heritage and Archaeological,
Agricultural land, Arboricultural and PROW Consultants



Rail Engineering Consultants



Utilities Advisors

Contents

| | | | |
|--|-----------|---|-----------|
| 1. Introduction | 4 | | |
| <ul style="list-style-type: none"> • General • Purpose of the Design Code • The Design Code covers • Design Theme • The Landscape Vision • Landscape Principles | | | |
| 2. Site Location, Context and Analysis | 6 | | |
| <ul style="list-style-type: none"> • Site Location • Existing Site Features • Surrounding Area • Flood Risk • Cultural Heritage • Nature Conservation | | | |
| 3. Scheme Parameters | 11 | | |
| <ul style="list-style-type: none"> • General | | | |
| 4. Illustrative Masterplan | 13 | | |
| <ul style="list-style-type: none"> • General | | | |
| 5. Design Code – 01 - Sustainability | 15 | | |
| <ul style="list-style-type: none"> • General • Specific Codes | | | |
| 6. Design Code – 02 – A47 Link Road | 16 | | |
| <ul style="list-style-type: none"> • General • A47 Link Road Specific Codes • A47 Link Road Landscaping | | | |
| 7. Design Code – 03 – Internal Distributor Roads | 18 | | |
| <ul style="list-style-type: none"> • General • Internal Distributor Road Specific Codes • Internal Distributor Road Landscaping • Internal Distributor Road Landscaping Specific Codes | | | |
| | | 8. Design Code – 04 – The Public Realm and Public Rights of Way | 20 |
| | | <ul style="list-style-type: none"> • General • Specific Codes | |
| | | 9. Design Code – 05 – Development Plots | 23 |
| | | <ul style="list-style-type: none"> • General • Specific Codes • Development Plot Landscaping • Development Plot Landscaping Specific Codes | |
| | | 10. Design Code – 06 – Railport | 25 |
| | | <ul style="list-style-type: none"> • General • Specific Codes | |
| | | 11. Design Code – 07 – Building Design, Colour Palette and Lighting | 26 |
| | | <ul style="list-style-type: none"> • General • Building Form Specific Codes • Building Height Specific Codes • Office Design Specific Codes • Materials Specific Codes • Colour Palette Specific Codes • External Lighting Specific Codes | |
| | | 12. Design Code – 08 – Visual Impact, Security, Accessibility, Plant, Boundaries and Signage | 31 |
| | | <ul style="list-style-type: none"> • General • Reduction in Potential Impact and Visual Impact Specific Codes • Security Specific Codes • Energy Efficiency and Sustainability Specific Codes • Accessibility Specific Codes • Waste & Recycling Specific Codes • External Plant and Equipment Specific Codes • Boundary Treatment and Fencing Specific Codes • Estate Signage Specific Codes • Building Signage Specific Codes • Trim Trail and Well-Being Zones Specific Codes | |

1. INTRODUCTION

1.1 General

AJA Architects LLP have been appointed by Tritax Symmetry (Hinckley) Limited (TSH) to act as Architects for the development of the proposed Hinckley National Rail Freight Interchange. (HNRFI)

The HNRFI, will be an exemplar rail connected warehousing development of strategic importance, not only locally, but regionally and nationally. It is therefore critical that the proposals are of the highest quality in terms of materials, finish and landscaping with the site planned so that it maximises the benefits for the occupiers, users and neighbours alike. Key to this objective will be the consideration given to the design of the access, landscaping, ecology, layout, scale, massing and building form, colour, and material of each part of the development.

The Design Code has been developed in conjunction with the Design and Access Statement.

This Design Code accompanies an application by Tritax Symmetry (Hinckley) Limited to the Secretary of State via the Planning Inspectorate for a Development Consent Order (DCO) under the Planning Act 2008.

1.2 Purpose of the Design Code:

The purpose of the Design Code is to ensure the design quality of HNRFI and to enable swift delivery of the development.

This will be achieved by:

- Providing clear design guidance on the character and quality of development;
- Providing coding which both the local planning authority and developers can use to ensure a consistent level of quality is achieved over the entire development;
- Ensuring consistency and co-ordination between the various parts of the development;
- Providing clear guidance for assessing responses to site tenders and guidance for assisting in determination of the detailed planning application.

The Design Code is intended as general guidance for use by all and will provide the Local Authority with an approved checklist against which the proposals can be assessed. All proposals are informed by the content of the Code and will be judged according to the interpretation and appliance of its content.

The Design Code covers:

- Sustainability
- Primary and secondary highway infrastructure;
- The Public Realm and Public Rights of Way;
- The Railport
- Building Design principles including building forms, types and frontages to the site boundaries;
- Building materials;
- External plant and equipment;
- Boundary treatment and fencing;
- Lighting;
- Landscape strategy;

This document sets out a series of design guidelines that assists in shaping the development on the site. This will help to ensure consistency in design quality across the site.

1. INTRODUCTION

1.3 Design Theme

The Design Theme for HNRFI is for a contemporary development, reflecting its location and strategic importance.

As a strategically important site, it is essential that the design of HNRFI is modern and forward looking to fully complement the wider areas as well as looking to attract locally, regionally and nationally important occupiers to the site.

The design principles that will realise this theme are described in this Design Code. These include Building Form, Building Height, Office Design, Materials and Colour Palette.

1.4 The Landscape Vision

The combination of the proposed architecture, built form vernacular and structural landscaping that respects and enhances existing vegetation and works with the scale of the built form will create a development with strong identity.

Key to achieving this will be the realisation of a high-quality environmental setting and public realm organised around strong design principles.

In combination, the architecture and the landscaping of the site will create a safe and welcoming environment for new employment facilities.

The development has been designed to respond to the arboriculture, ecological, landscape, visual, hydrological, and topographical constraints of the site, and where possible, retain and enhance the existing green infrastructure as part of the development proposal.

The proposed landscape will provide a fully landscaped setting which enhances the local landscape character, generates opportunities for ecological diversity, as well as reduces the potential impacts of the proposal on the landscape, as well as on arboriculture and ecology.

1.5 Landscape Principles

In creating the new landscape for this development, five principles have been established to guide the design process and facilitate landscape opportunities throughout the scheme.

These include:

- To work in combination with the proposed architecture to create a high-quality development. In line with the 'contemporary' vision for the wider site, this will involve creating simple, yet aesthetic, development plots with landscaping at a scale which respects the development scale. There will be the opportunity to use a variety of species, and the different functional areas (on plot, estate roads, landscape buffer, etc.) will have their own identity as a result;
- To assimilate the proposal into the local environment by providing effective mitigation measures to reduce and / or offset the potential effects of the proposal on landscape and visual amenity, as well as arboriculture and ecology. This will primarily be achieved through the retention and enhancement of existing vegetation around the site boundaries and creating areas of ecological interest. The landscape treatment will provide green spaces which address the limitations and the opportunities identified;
- To provide a strong landscape framework within which individual development parcels can be arranged. A robust set of landscape principles, following the contemporary vision whilst using predominantly native species, allows each of the individual development plots to be brought forward independently but with a consistent aesthetic and appearance.
- The landscape fabric will promote green infrastructure (ecology and landscape), as well as blue infrastructure (hydrology and landform) through the creation of a mosaic of landscape types. This will include the selection of native species and in more functional areas, the use of some ornamental planting;
- To realise a walkable environment which is equestrian, pedestrian and cycle user friendly, pedestrian and cycle routes will be provided throughout the development, which link to individual plots and the wider landscape where possible, with equestrian public bridleways around the perimeter of the site. Key routes will pass through the key green spaces and the existing footpaths and bridleways will be diverted and new routes provided as necessary to respond to the layout proposals.

The Landscape Masterplan has been developed iteratively to maximise the potential for betterment at the site.

These principles will ensure that mitigation and enhancement measures are embedded throughout the wider proposal as the scheme progresses through the next stages. The integrity of the landscape principles in the long term will ensure that the landscape fabric and blue and green infrastructure is appropriately designed, and effectively managed, for the longevity of the scheme.

2. THE EXISTING SITE AND ITS CONTEXT

2.1 Site Location

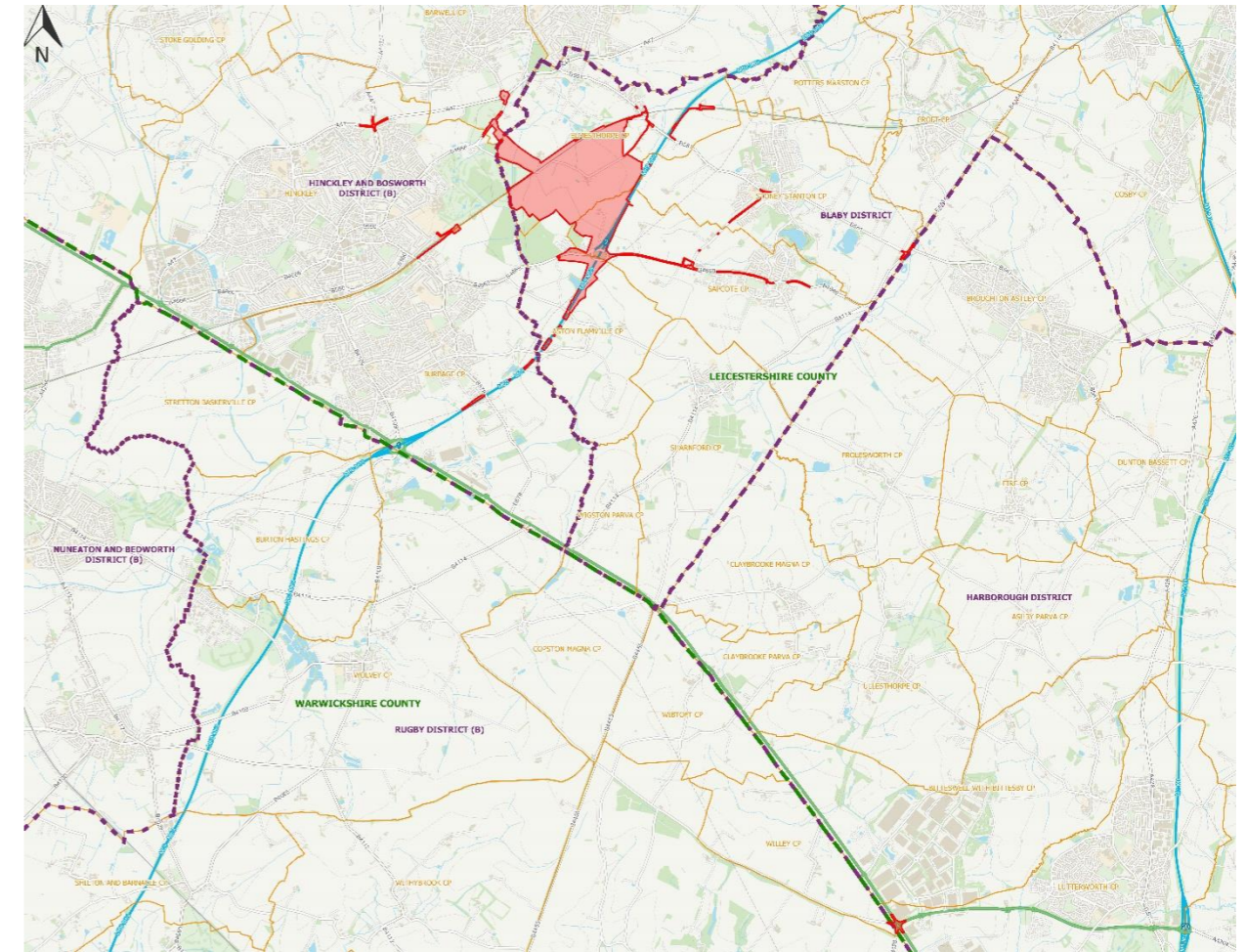
The main site lies within the East Midlands Region and the administrative boundaries of Leicestershire County Council, Blaby District Council, the Borough of Hinckley and Bosworth and the Civil Parishes of Hinckley, Burbage, Elmesthorpe, Barwell, Stoney Stanton, Sapcote and Aston Flamville.

Supporting highway works are proposed in Blaby, Hinckley and Bosworth and Harborough Districts in Leicestershire and in the Borough of Rugby in Warwickshire and the Civil Parishes or Wards of Hinckley de Montfort, Burbage, Cosby, Elmesthorpe, Barwell, Stoney Stanton, Sapcote, Aston Flamville, Broughton Astley, Willey and Lutterworth.

The site is adjacent to the Felixstowe to Nuneaton Freight Line (also known as the Hinckley to Leicester Line) and is located approximately 2km east of Hinckley Town centre, immediately north west of Junction 2 of the M69.

The Order Limits for the Proposed Development comprise approximately 268 hectares of land.

The HNRFI site has the ability to directly link to the M69 and the A47 trunk road, providing easy connections to the M1 and M6, offering opportunities for the delivery of a well-connected and permeable site.



Legend

- Order Limits
- - - District Boundary
- - - County Boundary
- - - County-District Boundary
- - - Parish Boundary

Fig.1 Site Location Plan and Boundary Designations

2. THE EXISTING SITE AND ITS CONTEXT

2.2 Existing Site Features

2.2.1 Railway Infrastructure

The main HNRFI site lies to the south east of the Felixstowe to Nuneaton Freight line, which forms part of Network Rails strategic freight network. The Main Order Limits also include land to its north western side. The land either side of the railway is presently connected by three level crossings serving footpaths and an overbridge on the Burbage Common Road within the scope of the Order Limits.

2.2.2 Highway Infrastructure

The M69 Junction 2 is located to the south east of the HNRFI site and is connected to the M69 via a northbound entry slip lane and southbound exit slip lane and to the east and west with connections to the B4669 Hinckley Road.

Burbage Common Road crosses the main HNRFI site, and is a rural lane that connects the B4668 at Burbage Common with the B581 Station Road in Elmesthorpe as well as providing access to Woodhouse Farm and Langton Farm. The road crosses the railway as a single lane hump-backed bridge.

Access to other residential properties in the Main HNRFI Site, including Freeholt Lodge and Hobbs Hayes to the north of M69 Junction 2, is from a track that extends from Smithy Lane, which branches from the B4669 Hinckley Road.

2.2.3 Landform / Topography

The DCO site lies in National Character Area (NCA) 94 'Leicestershire Vales', which comprises an open landscape of gentle clay ridges and valleys used for a mixture of pasture and arable agriculture, bisected by small watercourses.

Although to casual inspection the Main HNRFI Site appears broadly level, it slopes gently downhill from a high point of 110m Above Ordnance Datum (AOD – i.e. above sea level) adjacent to M69 Junction 2 to a low point of 83m AOD beside the railway at the northern end of the Main Site.

South-west of M69 Junction 2 the M69 motorway falls gently to a height of c. 96m AOD at the southern extremity of the DCO Site.

To the west of the railway the A47 Link Road corridor falls from 99m to c. 93m before rising gently to 96m where it joins the A47 Leicester Road. This gentle valley is associated with an unnamed watercourse.



Fig.2 Aerial image of main HNRFI site with M69 in foreground looking towards Hinckley and Burbage.

2. THE EXISTING SITE AND ITS CONTEXT

2.2.4 Watercourses

The majority of the Proposed Development is located in the Thurlaston Brook catchment. An unnamed tributary of the Thurlaston Brook flows eastwards across the route of the proposed A47 Link Road and immediately beyond the railway line to the north of the Main HNRFI Site. This watercourse has its own two tributaries which flow through Burbage Common and cross the route of the A47 Link Road.

An unnamed watercourse flows north-eastward through the southern portion of the Main HNRFI Site before running alongside the M69 motorway and joining the tributary of the Thurlaston Brook just downstream of the railway line. This 'issues' within the Main HNRFI Site itself, rather than being fed by an upstream catchment. Several field drainages ditches and small ponds in the Main HNRFI Site also discharge into the tributary of Thurlaston Brook.

A tributary of the Soar Brook issues from the south-eastern side Hinckley. This flows beneath the M69, to the south west of Junction 2, and through the DCO Site for a short length, before turning south-east and flowing away from the DCO Site.

2.2.5 Land Use and Landscape

Most of the Main HNRFI Site and the land inside the Main Order Limits to the west comprise a regular pattern of fields used for arable farming and grazing. The fields are defined by hedgerows and interspersed with deciduous trees. Interspersed amongst the fields are a small number of agricultural dwellings and outbuildings with a cluster of buildings at Woodhouse Farm in the centre of the Main HNRFI Site.

Businesses in and immediately adjacent to the Main HNRFI Site include a farm shop at Woodhouse Farm, close to the centre of the Main HNRFI Site, and the Wentworth Livery Stables on Burbage Common Road to the south of Elmeathorpe. Burbage Common Road serves as an equestrian route to Burbage Common for riders from the stables.

2.2.6 Public Rights of Way

There are a number of public bridleways and public rights of way (PROW) that cross the site within the Main Order Limits. The routes enter and leave the site at various points around the perimeter of the main HNRFI site including a crossing over the M69 via an existing bridge as well as a number that utilise the level crossings on the Felixstowe to Nuneaton Freight line. Two routes also connect into Burbage Common & Woods on the southern boundary.

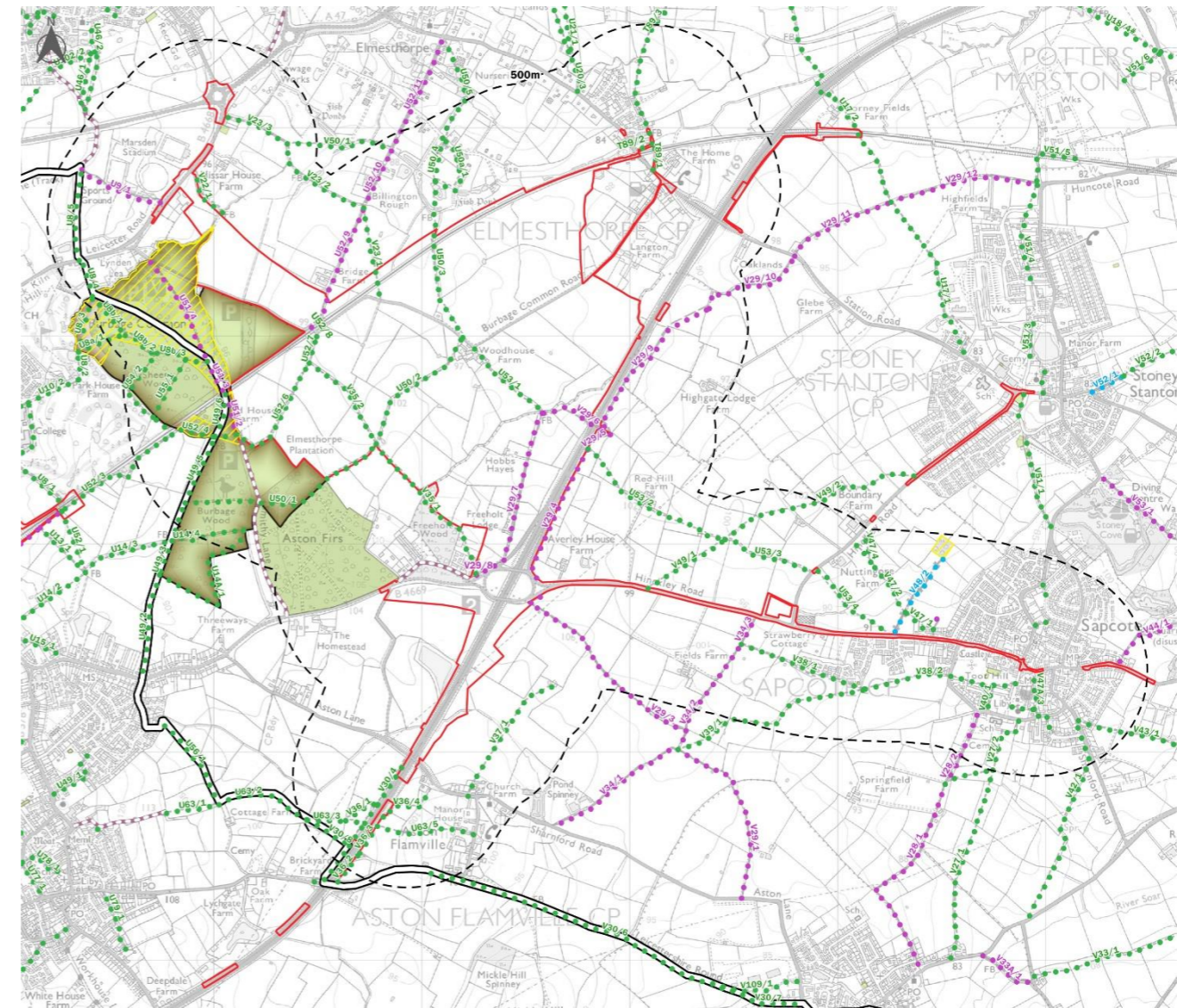
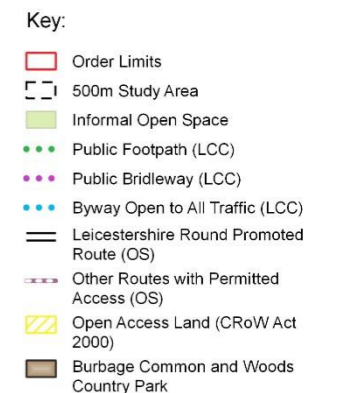


Fig 3. Existing Bridleways and Public Rights of Way



2. THE EXISTING SITE AND ITS CONTEXT

2.3 Surrounding Area

2.3.1 Character

Areas immediately outside of the Main Order Limits are generally similar in character, comprising level or gently undulating farmland interspersed with farmsteads, smallholdings and free-standing dwellings.

2.3.2 Local Settlements

The closest settlements to the Main HNRFI Site are the village of Elmesthorpe along the B581 Station Road to the north and a mobile home park and a separate gypsy and traveller settlement off Smithy Lane to the south-west of M69 Junction 2. In the wider area and generally at a range of 2-3km from the Main HNRFI Site are the settlements of Stoney Stanton and Sapcote to the east, Earl Shilton and Barwell to the north and north-west, Hinckley and Burbage to the west and south-west and the village of Aston Flamville to the south.

Elmesthorpe has been settled since the Roman era and has a population of just over 500. Village landmarks include the 13th century St Mary's Church, partly ruined but restored at a smaller scale. Elmesthorpe railway station closed in the 1960s but the village retains a hotel and a pub.

Off Smithy Lane to the south of the Main HNRFI Site are two residential enclaves in fenced compounds – the Aston Firs Gypsy and Traveller site managed by LCC and the Castle Fields mobile home site, which is privately owned.

The village of Sapcote to the east has a population of c. 2,700. The village is a focus for community activities with a social club, pub and neighbourhood retail facilities. Stoney Stanton to the north of Sapcote has a population of almost 4,000 and includes neighbourhood-level retail, pub and dining facilities. Between Sapcote and Stoney Stanton lies Stoney Cove, a diving adventure centre in a former stone quarry with a waterside pub and restaurant.

2.3.3 Local Amenity

Burbage Common and Burbage Wood to the south-west of the Main HNRFI Site are a popular recreational resource managed by Hinckley and Bosworth Borough Council, providing woodland and open meadows for informal recreation, with car parks and a visitor centre. Hinckley Golf Course lies beyond Burbage Common, on the edge of Hinckley itself.

In the Blaby District Character Assessment (2008) the Main HNRFI Site lies in two Landscape Character Types (LCT). The northern area of the HNRFI Site falls within LCT A 'Floodplain' and the southern area is within LCT G 'Wooded Farmland'. In terms of Landscape Character Areas (LCA), the Main Site falls similarly within two zones. The northern parts of the HNRFI Site lie in LCA E: 'Elmesthorpe Floodplain' and the southern portions are located in LCA A: 'Aston Flamville Wooded Farmland'.

2.4 Flood Risk

The Environment Agency's (EA) Flood Zone map shows the majority of the land inside the Main Order Limits to be in Flood Zone 1. This indicates that the land is largely at low risk of flooding (a less than 1 in 1,000 annual probability of river flooding). Limited areas around the Thurlaston Brook Tributary, which crosses the corridor of the proposed A47 Link Road to the west of the Felixstowe to Nuneaton Freight line and then flows through the extreme northern corner of the Main HNRFI Site, are in Flood Zone 2 (between a 1 in 100 and 1 in 1,000 annual probability of flooding) and Flood Zone 3 (a 1 in 100 or greater annual probability of river flooding).

2.5 Cultural Heritage

There are no designated World Heritage Sites, scheduled monuments, listed buildings, registered parks and gardens, battlefields, or conservation areas inside the DCO Site.

In general terms, the majority of designated heritage assets in the wider area comprise listed buildings clustered in the historic cores of local settlements. Within 5km of the Main HNRFI Site are six scheduled monuments, 98 listed buildings and nine conservation areas. There are several groups of listed buildings in the settlements of Stoney Stanton to the east, including the Grade II* listed Church of St Michael, and in Elmesthorpe to the north is the Grade II listed Church of St Mary. The Church of St Mary in Barwell, 1.8km to the north-west of the Main HNRFI Site and 0.75km from the western end of the proposed A47 Link Road, is a Grade I listed building.

Scheduled monuments closest to the Main HNRFI Site include the ruined church at Elmesthorpe to the north, and Sapcote Castle and Moat on the west edge of Sapcote, 2km to the east-south-east. The Aston Flamville Conservation Area lies 1.3km to the south of the Main Site and lies c. 100m from southern arm of the Main Order Limits that contains the southbound slip road proposed as part of the reconfiguration of M69 Junction 2.

Non-designated heritage assets of local importance have been identified within the Main HNRFI Site. These assets comprise three farm buildings and the Burbage Common Road railway bridge, as well as discrete areas of ridge and furrow earthworks and the buried remains of discrete late prehistoric/Romano-British settlement activity.

2. THE EXISTING SITE AND ITS CONTEXT

2.6 Nature Conservation

The Burbage Wood and Aston Firs Site of Special Scientific Interest (SSSI) lies close to the south-western boundary of the Main HNRFI Site and outside the DCO Site. This SSSI is designated for its mixed ash, oak and maple woodland, one of the best remaining examples in Leicestershire. The SSSI adjoins the Burbage Common and Woods Local Nature Reserve.



Fig 4. Burbage Common

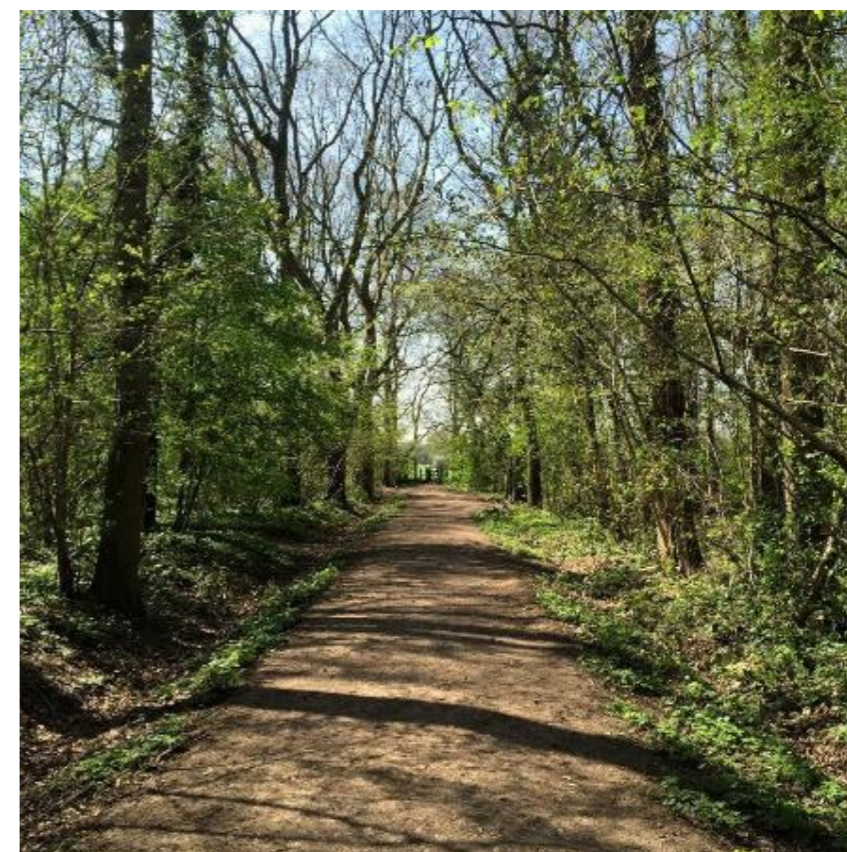


Fig 5. Burbage Common

3. SCHEME PARAMETERS

3.1 General

As well as defining codes for a scheme that responds to the setting within which it sits, and that is described in the previous chapters, the Design Code is also informed by and reflects the development shown in the parameters for the HNRFI.

The parameters for the Proposed Development on the Main HNRFI Site are shown on a parameters plan. Each development zone includes all elements integral to each development plot, including buildings, hardstandings, parking, landscape and planting, utilities and drainage infrastructure.

The parameters plan also sets parameters for the following:

- rail and Railport infrastructure including connections from the existing railway (including rail chord) and sidings, gantry cranes and areas for the temporary stacking of freight containers (contained within zones H and J of the parameters plan);
- highway infrastructure corridors including carriageways, landscaping, footpaths, laybys and cycleways. The parameters plan proposes a 'limit of deviation' within which internal roads would be contained;
- external road infrastructure within landscaped corridors, including the proposed upgrades to M69 Junction 2 and the proposed A47 Link Road, including a bridge to replace the existing Burbage Common Road bridge;
- areas for woodland protection, landscape and planting, footpath, bridleway and water course diversions, new ponds and swales and amenity areas for public use;
- a development zone for a site hub containing site management and security offices and a marketing suite, energy centre, with ancillary parking and planting (contained within zone G of the parameters plan); and
- signage for the development.

3.2 Parameter Zone Schedule

| Schedule of Parameters for Development Zones | | | | | | |
|--|--|--|-----------------------------------|---|--|-------------|
| Zone | Number of Warehousing Units / Buildings * ¹ | Maximum development floor space per Zone (m ²) | Other Defined Element Within Zone | Maximum building / element height measured to roof ridge / highest point in metres above Ordnance Datum | Equivalent building height relative to FFL | |
| A | 1 to 6 warehousing units | 105,000 sq.m. | | 119.15m | Up to 22m | |
| B | 1 to 5 warehousing units | 115,000 sq.m. | | B1 115.65m | Up to 22m | |
| | | | | B2 121.65m | Up to 28m | |
| | | | | B3 115.65m | Up to 22m | |
| C | 1 to 6 warehousing units | 140,000 sq.m. | | C1 119.15m | Up to 22m | |
| | | | | C2 122.15m | Up to 25m | |
| D | 1 to 4 warehousing units | 184,000 sq.m. | | D1 119.15m | Up to 22m | |
| | | | | D2 125.15m | Up to 28m | |
| E | 1 to 3 warehousing units | 137,000 sq.m. | | E1 118.65m | Up to 25m | |
| | | | | E2 115.65m | Up to 22m | |
| F | 1 to 2 buildings | 500 sq.m. | | 111.50m | Up to 10m | |
| G | 1 to 2 buildings | 500 sq.m. | | 107.15m | Up to 10m | |
| | | | | Energy Services | 112.15m | |
| H | 1 to 2 buildings | 750 sq.m. | | 107.15m | Up to 10m | |
| | | | | Yard (including container stacks) | 119.15m | Up to 20.7m |
| J | 1 to 2 buildings | 500 sq.m. | | 106.50m | Up to 10m | |
| | | | | Yard (including container stacks) | 112.50m | Up to 14.5m |
| | | | | Gantry Cranes | 123.50m | |
| Total maximum floor space across the development* ² | | 650,000 sq.m. | | | | |

*¹ These are the potential number of main use buildings in each zone and excludes any ancillary buildings or structures.

*² This total floor space is the maximum floor space (excluding mezzanine space) that will be developed across the site notwithstanding that the maximum floor space stated for each Zone combined would exceed this figure i.e. it is the overall floor space cap for each zone excluding mezzanine floor space.

3. SCHEME PARAMETERS

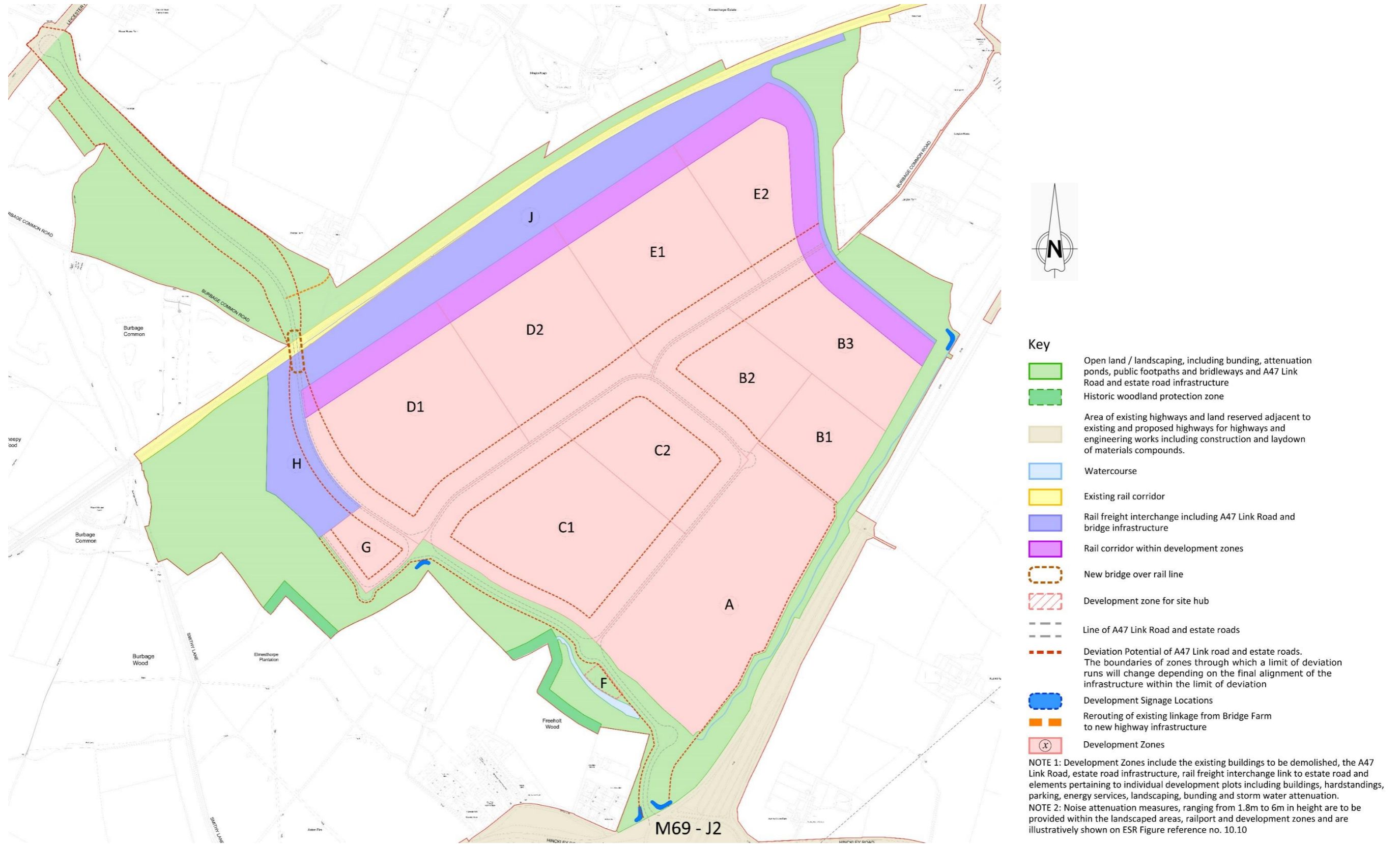


Fig 6. Parameters Plan and Key

4. ILLUSTRATIVE MASTERPLAN

4.1 General

In the preparation of the DCO, an illustrative masterplan was developed which evolved over time as a consequence of the feedback received, and this final iteration formed part of the application.

The illustrative masterplan, both informed and reflected the parameters of the scheme described in the previous chapter and in turn now informs the Design code.

The component parts of the masterplan which are subject to the coding described in this document are as follows:

- an intermodal freight terminal or ‘Railport’ capable of accommodating up to 16 trains up to 775m in length per day, with hard-surfaced areas for container storage and HGV parking and cranes for the loading and unloading of shipping containers from trains and lorries;
- A new road (‘the A47 Link Road’) from the modified M69 Junction 2 to the B4668 / A47 Leicester Road with a new bridge over the railway, providing vehicular access to the proposed HNRFI from the strategic highway network. The A47 Link Road would be intended for adoption as a public highway;
- up to 850,000 square metres (gross internal area or GIA) of warehousing and ancillary buildings with a total footprint of up to 650,000 square metres and up to 200,000 square metres of mezzanine floorspace, including the potential for some buildings to be directly rail connected if required by occupiers. These buildings might incorporate ancillary data centres to support the requirements of HNRFI occupiers and operators. They will also incorporate roof-mounted photovoltaic arrays with a generation capacity of up to 42.4 megawatts (MW), providing direct electricity supply to the building or exporting power to battery storage in the energy centre;
- an energy centre incorporating an electricity substation connected to the local electricity distribution network, battery storage (adjacent to each unit and at the energy centre) and a gas-fired combined heat and power plant (designed to be ready for 100% hydrogen in the grid gas supply) with an electrical generation capacity of up to 5 megawatts (MW). Total electricity generation capacity at the Main HNRFI Site is therefore 47.4 MW;
- a lorry park with welfare facilities for drivers and HGV fuelling facilities;
- a site hub building providing office, meeting space and marketing suite for use in connection with the management of the HNRFI and ancillary car parking;
- terrain remodelling, hard and soft landscape works, watercourse diversion, amenity water features and planting;
- noise attenuation measures, including acoustic barriers up to six metres in height;
- habitat creation and enhancement, and the provision of publicly accessible amenity open space at the south-western extremity of the HNRFI near Burbage Wood and to the south of the proposed A47 Link Road between the railway and the B4668/A47 Leicester Road;
- pedestrian, equestrian and cycle access routes and infrastructure, including a new dedicated route for pedestrians, cyclists and horse riders from a point south of Elmesthorpe to Burbage Common;
- utility compounds, plant and service infrastructure;
- security and safety provisions inside the HNRFI including gatehouses, fencing and lighting;
- drainage works including surface water retention ponds, underground attenuation tanks and swales;

4. ILLUSTRATIVE MASTERPLAN



Key





















-  New M69 Slip Lanes
-  A47 Link Road
-  A47 Link Bridge Crossing
-  Estate Roads
-  Railport - Sidings
-  Railport - Container Storage
-  Lorry Park, Energy Services & Drivers Welfare
-  Site Hub
-  Building Footprints
-  External Yards
-  Parking Areas
-  Water Features and Ponds
-  New Bridleway within main HNRFI site
-  New landscaping within main HNRFI site
-  Well Being Zone
-  Existing surrounding landscaping and farmland
-  Existing woodland
-  Existing alignment of public footpaths and bridleways (orange)
-  Proposed alignment of public footpaths and bridleways (blue)
-  Proposed alignment of pedestrian footpath / cycleway link (purple)

Fig 7. Illustrative Masterplan

5. DESIGN CODE 01 – SUSTAINABILITY

5.1 General

Having regard to policy, environmental and economic matters, it is the intention that this new development pay high regard to energy efficiency and sustainability. To that end the following specific codes are proposed in order to achieve that aspiration:

5.2 Specific codes:

- Tritax Symmetry are a Gold Leaf Member of UKGBC and aim to meet UKGBC’s definition for net zero carbon in construction and aim to deliver these new buildings at net zero carbon in construction paying high regard to energy efficiency, sustainability, and carbon offsetting;
- Energy efficiency and suitability measures will be assessed for technical review, installation and running costs, payback periods and plant space availability prior to implementation;
- The design of the buildings aim to maximise the amount of natural lighting available and make use of energy efficient products throughout. The heating and ventilation systems will be designed to minimise the energy consumption wherever possible;
- Materials will be locally sourced wherever practicable and the use of non-recyclable plastics will be avoided;
- The building will be designed to major on the thermal performance and air tightness from the outset. If a need arises for greater energy requirements the principle would be for this to be provided from renewable sources where practicable;
- The development will target BREEAM – Very good and an EPC A rating as is standard for Tritax Symmetry buildings;
- External lighting will be designed to ensure no lighting is installed facing towards the perimeter boundaries and all lighting will be installed with non-translucent covers;
- Waste and recycling provisions will be provided within the scheme based upon discussions with prospective operators regarding the operations of the proposed units;
- Water requirements for the scheme will provide a drainage scheme which will be compliant with the requirements of CIRIA guidance on SUDS



6. DESIGN CODE 02 – A47 LINK ROAD

6.1 General

The A47 Link Road will be the only non-emergency road access to the HNRFI.

The section of the proposed A47 Link Road inside the Main HNRFI Site shown on the illustrative master plan (Figure 7) has a sequence of roundabouts to provide access to service roads and reduce traffic speeds. These roundabouts and the design of the A47 Link Road will be subject to detailed design approval post-consent, in accordance with a proposed DCO Requirement. As shown in the illustrative masterplan, from the M69 Junction 2 the first two sections of the road will be dualled, reducing to a single carriageway as the road proceeds further westward.

The A47 Link Road crosses the main railway line by means of a new bridge. The bridge will pass over the Railport access road at the southern end of the Railport, the proposed railway sidings, the existing railway and the existing bridleway beyond. It will replace the existing hump-back bridge over the railway, which will be demolished. The new bridge will include a pedestrian walkway and cycleway and will include sufficient height and width clearance to enable a future electrification of the railway.

From the proposed railway bridge the A47 Link Road will ramp down to local ground level and proceed north-westwards at grade towards a new roundabout junction on the B4668 / A47 Leicester Road.

6.2 A47 Link Road Specific codes:

- Direct access to the site will be taken from the M69 Junction 2 in the south and the B4668/A47 in the north, at the points shown on the masterplan. This will provide a direct connection for both the vehicular entrances and footpath / cycleways;
- From the M69 Junction 2 access point, the A47 link road will be set in a landscaped road corridor. This will comprise a dual carriageway of two 7.3m wide carriageways separated by a 3m wide central reservation up to the third internal roundabout, where thereafter it will continue as a single 7.3m wide carriageway, over the railway via a new bridge and onto a new roundabout junction on the B4668 / A47 Leicester Road;
- From the M69 Junction 2 access point, a 3m wide combined footpath/cycleway will be provided to the eastern side that connects with the proposed bridleway close to the first internal roundabout and then continues alongside the eastern carriageway, around the internal roundabouts and provide connectivity to the main development with spurs onto the internal estate roads. Between the second and third internal roundabouts, a 2m wide footpath will be introduced along the western side of the carriageway to provide pedestrian access. After the third internal roundabout, and where the road reduces to a single carriageway, both sides of the A47 Link Road will have a 3m wide combined footpath / cycleway. Once over the bridge the footpath / cycleway on the eastern side of the road continues and serves Bridge Farm, whilst on the western side the 3m wide combined

footpath / cycleway continues until it reaches the junction with the B4668 / A47 Leicester Road;

- All carriageways, including the footpath / cycleways are to be surfaced in bituminous macadam, being the most appropriate and robust road surface for a large-scale commercial development;
- The main carriageways, footpaths and cycleways will comprise a clearly marked, and well illuminated route along the length of the A47 Link Road and onto the secondary estate roads and ultimately the development plots, thereby increasing site permeability and connectivity with its surroundings;
- A dedicated bus-layby complete with shelters and standing for buses off the main carriageway will be provided between the second and third internal roundabouts on the western side of the road.



Fig 8. Illustrative Artists Impression from the south east entrance roundabout looking west.

6. DESIGN CODE 02 – A47 LINK ROAD

6.3 A47 Link Road Landscaping

6.3.1 Purpose:

The A47 Link Road will create the entrance way into the development, establishing a high quality designed scheme, with an emphasis on placemaking and legibility. The landscape will afford strong ecological connectivity, retain, and enhance existing landscape fabric, and establish new planting (including native species of local importance).

6.3.2 Specific Codes:

- Planting beyond the combined footpaths and cycleways, whether it be up to the site boundary, or a neighbouring development plot will accommodate native structure planting;
- A level area of nominally 1.0m width of grass between the road kerbs and the pathways to provide segregation;
- Avenue tree planting will be provided along the A47 Link Road to define the edge of the A47 Link Road infrastructure;
- Amenity grassland will be maintained at wider sections of the verge (low maintenance to reduce the frequency of mowing);
- Road lighting will be located within the landscaped verge, and designed so not to constrain the arrangement of native structure planting including tree planting;
- For legibility, tree planting alongside the estate road and within the native structure planting will be to a larger scale



Fig 9. Part A47 Link Road plan from M69 J2

7. DESIGN CODE 03 – INTERNAL DISTRIBUTOR ROADS

7.1 General

Within the Main HNRFI Site, internal distributor roads will branch from the A47 Link Road to serve buildings and other areas across the site. These internal distributor roads will be single carriageway roads set in landscaped corridors. The roads will be lit using lighting designed to minimise light pollution. These internal roads are not intended for adoption as public highways under the Highways Act 1980 but will be private roads available for public use. These roads will be maintained by the appointed management company. The Railport will have a lit, private, dedicated access off the A47 Link Road.

7.2 Internal Distributor Road Specific codes:

- Direct access from the internal roundabouts on the A47 Link Road will be taken at the points shown on the illustrative masterplan. This will provide a direct connection for both the vehicular entrances and footpath / cycleways;
- The main internal distributor roads off the A47 Link Road will comprise a minimum 10.5m wide carriageway, which provides two way directional flow of traffic and a central dedicated turning lane, thereby allowing continuous movement of vehicles when other vehicles need to turn into a development plot;
- Further internal distributor roads that provide dedicated access to development plots and aren't part of the main circulatory loop can be 7.3m wide without the requirement for a dedicated turning lane;
- A 3m wide combined footpath/cycleway will be provided to both sides of the internal distributor roads on the eastern side of the A47 Link Road, and the one western internal distributor road that serves the Railport, will have a 3m wide combined internal footpath / cycleway on its northern side.
- All carriageways, including the footpath / cycleways are to be surfaced in bituminous macadam, being the most appropriate and robust road surface for a large-scale commercial development;
- The main carriageways, footpaths and cycleways will comprise a clearly marked, and well illuminated route along their length, thereby increasing site permeability and connectivity with its surroundings;

7.3 Internal Distributor Road Landscaping:

7.3.1 Purpose:

The internal distributor roads lead to the individual development plots and its key to maintain the same high quality designed scheme as the A47 Link Road, with an emphasis on placemaking and legibility. The landscape will afford strong ecological connectivity, retain, and enhance existing landscape fabric, and establish new planting (including native species of local importance).



Fig 10. Illustrative Artists Impression from the A47 Link Road looking along the main HNRFI western estate road.

7. DESIGN CODE 03 – INTERNAL DISTRIBUTOR ROADS

7.3.2 Specific Codes:

- Planting beyond the combined footpaths and cycleways, whether it be up to the site boundary, or a neighbouring development plot will accommodate native structure planting;
- A level area of nominally 1.0m width of grass between the road kerbs and the pathways to provide segregation;
- Avenue tree planting will be provided along the internal distributor roads to define the edge of the road infrastructure;
- Amenity grassland will be maintained at wider sections of the verge (low maintenance to reduce the frequency of mowing);
- Road lighting will be located within the landscaped verge, and designed so not to constrain the arrangement of native structure planting including tree planting;
- For legibility, tree planting alongside the internal distributor roads and within the native structure planting will be to a larger scale.

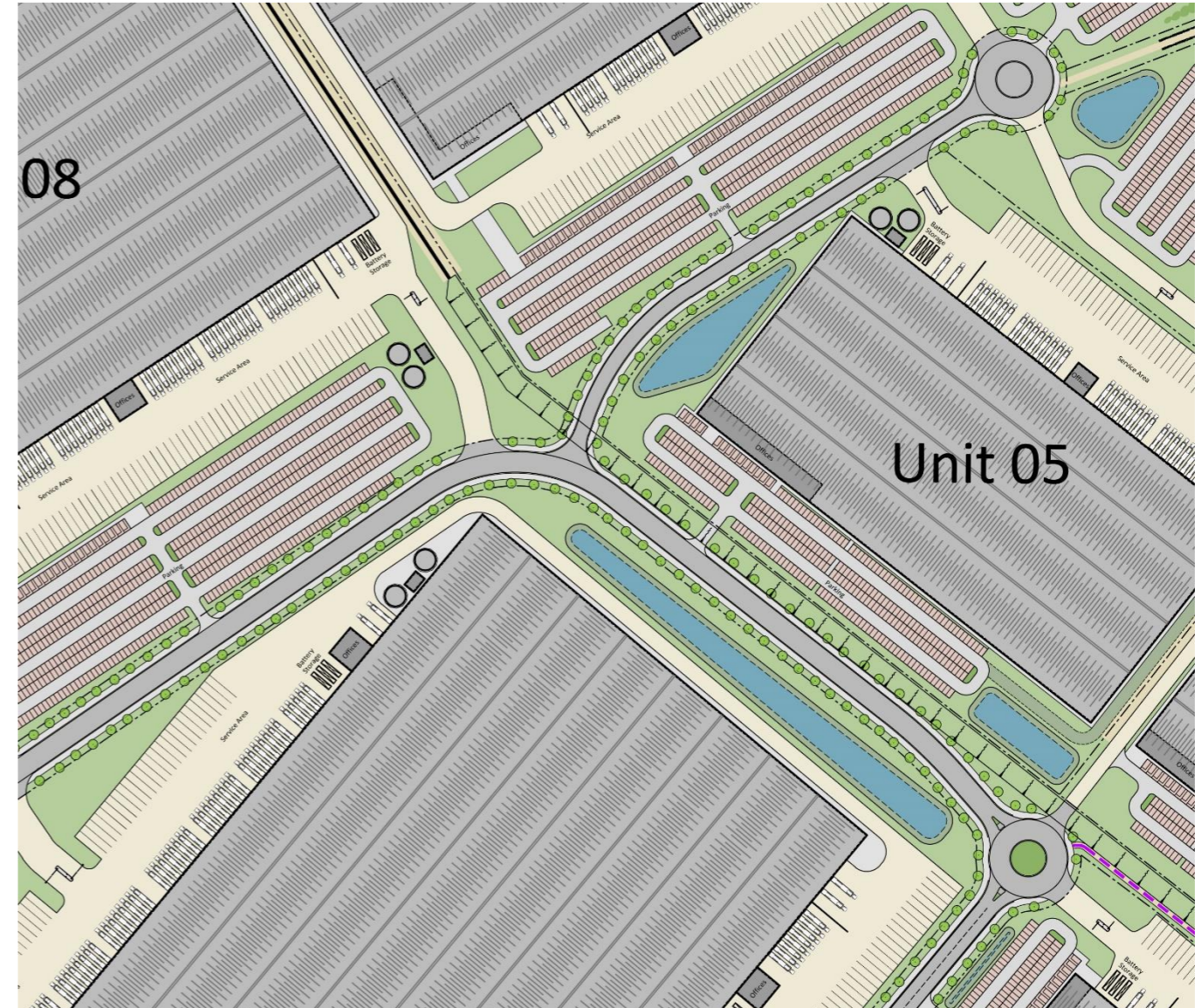


Fig 11. Internal Distributor Road, extract from illustrative masterplan.

8. DESIGN CODE 04 – THE PUBLIC REALM AND PUBLIC RIGHTS OF WAY

8.1 Public Realm - General

The introduction of the proposed A47 Link Road which extends north-west of the Main HNRFI Site to the B4668, the land south of the route itself presented an opportunity to provide a large area of Public Open Space (POS) and safeguard the interface and visual amenity of Burbage Common and Woods Country Park to the south. This area will see a conversion of arable land to a rich, biodiverse area, providing a range of habitats, whilst also providing an attractive and valuable recreational asset with links to the Country Park to the south.

Despite the unavoidable loss of some enclosed farmland, the current condition and key characteristics of the landscape have been considered throughout the design of the Proposed Development and integrated into the layout where possible, such as the nearby character of the Burbage Common and Woods Country Park which has contributed to the design of the area south of the A47 Link and the western extent of the Main HNRFI Site.

8.2 Public Realm - Specific Codes

- Provision of publicly accessible natural green space along the southern edge of the Main HNRFI Site and south of the A47 Link Road as an extension to Burbage Common and Woods Country Park in line with Green Infrastructure Policy Aspirations.
- Enhancement of biodiversity corridors, particularly along the boundaries of the Main HNRFI Site;
- Provide a retained, albeit realigned and upgraded on-site PRow network across the Main HNRFI Site, creating shared use routes through traffic free green corridors and providing onwards connections to recreational destinations such as Burbage Common and the Leicestershire Round, consistent with guidelines set out within the Aston Flamville and Elmesthorpe Floodplain LCA guidelines;
- In consideration of the wetland habitats located across the Elmesthorpe Floodplain LCA, multifunctional SuDS will be designed into and throughout the Proposed Development (not just confined to areas of public open space) to address any changes in hydrology, whilst also providing ecological benefit and separate off-line ponds created as wetland habitat
- Delivery of a net gain tree planting across the site to address climate change;

- Provision of a sensitive lighting strategy which follows key parameters designed to limit light spill such as maximum heights, directional units, and specific light sources.
- Species chosen for planting to reflect those present within the landscape locally to enhance local distinctiveness within the character area;
- Landscape strategy to be developed in conjunction with ecological strategy to maximise biodiversity and provide appropriate mitigation for protected species.



Fig 13. Public amenity area extension to Burbage Common and Woods.

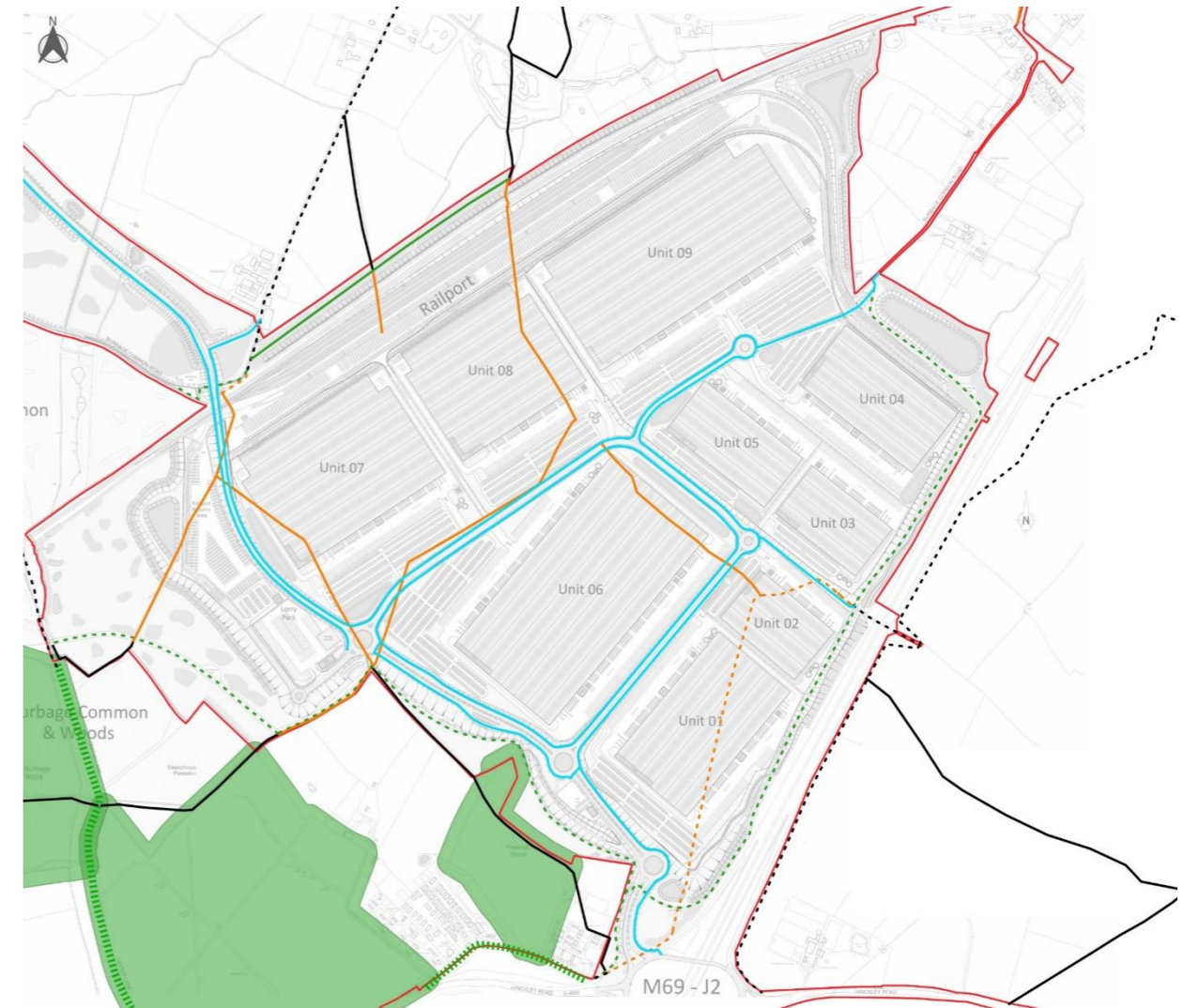
8. DESIGN CODE 04 – THE PUBLIC REALM AND PUBLIC RIGHTS OF WAY

8.3 Public Rights of Way - General

Throughout the design evolution of the Project, the routing and rerouting of PRow across the Main HNRFI Site has been explored and consulted with Leicestershire County Council (LCC) in which a Public Rights of Way Strategy has been developed.

8.3.1 Public Rights of Way – Specific Codes

- The local network of footpaths are key assets for existing and future users in the area. Together, these present a number of recreational opportunities, including access to Burbage Common and Woods Country Park and the wider countryside to the north, south, east and west and the development of the Main HNRFI Site and A47 Link Road presents an opportunity to enhance access to Burbage Common and Wood Country Park, both in terms of improving existing access and through the creation of additional access points.
- Two footpath routes (Footpaths V23/1 and U50/3) cross the Hinckley to Leicester railway line via unprotected crossings, including a third beyond the main HNRFI site on route U8/1 (the 'Outwoods' crossing). These are footpath, bridleway and user worked crossings where the onus is on the crossing user to check for an approaching train before they cross the railway. The proposal is to close these two crossings and instead provide a link southward from Footpath U50/4 along the northern edge of the railway, passing Footpath V23/1 and linking with Bridleway U52/9 and Footpath U52/8 which provide a safer route via a new bridge over the railway. The proposal at the third crossing point at the Outwoods is to upgrade to a pedestrian bridge, improving safety for footpath users.
- Shared paths will be provided adjacent to all roads through the site, allowing continued pedestrian access north, east, south and west through the site.
- There is limited equestrian use of the existing bridleway network within the study area although it is noted that Burbage Common Road is also used regularly by riders gaining access to Burbage Common. There are currently no suitable connections to the Bridleway network within or to the east of the Main HNRFI Site. There is therefore opportunity to create a new traffic free link, routing a bridleway around the eastern edge of the Main HNRFI Site to connect with Bridleway V29.

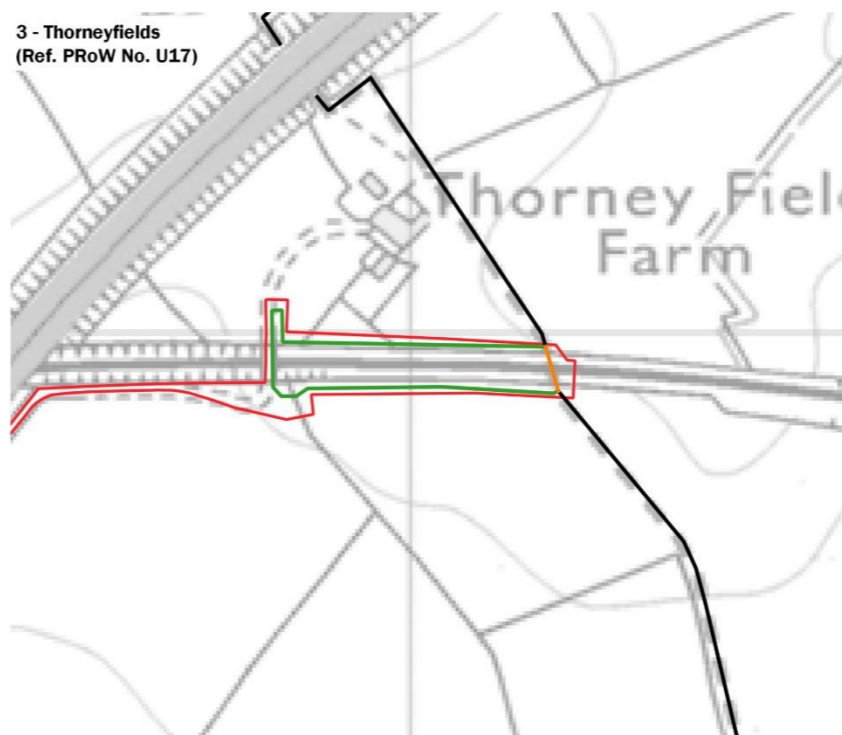
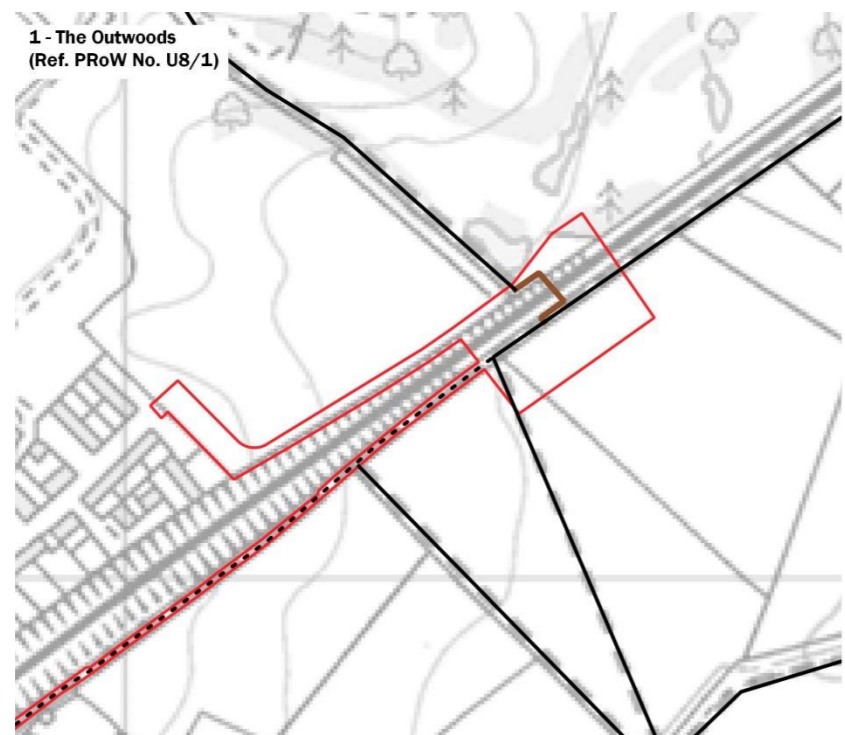
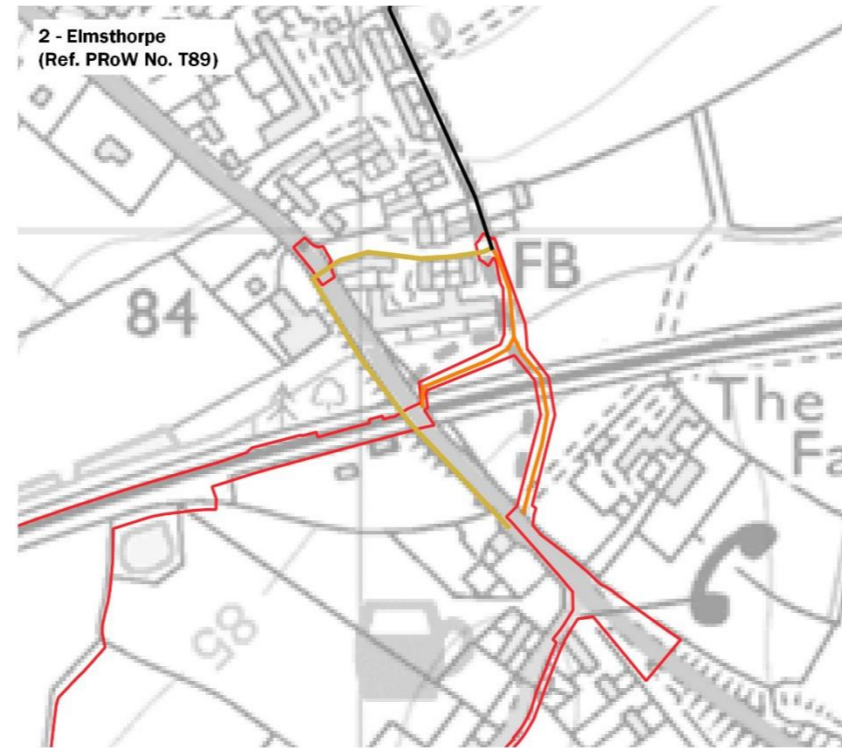
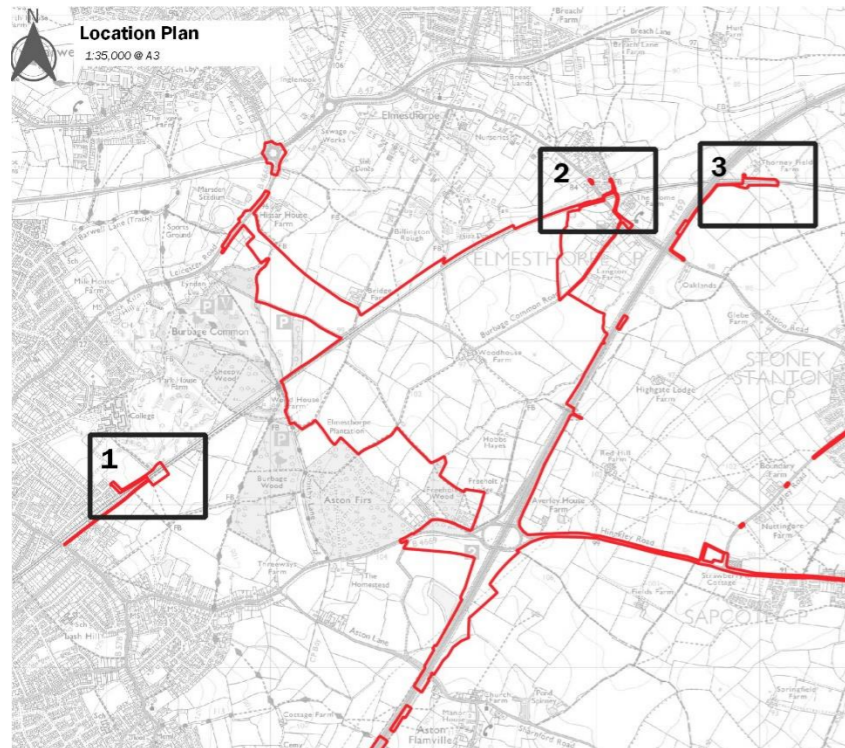


Key:

- Order Limits
- Existing Bridleway
- Existing Footpath
- Proposed Bridleway
- Proposed Footpath
- Existing Bridleway Stopped Up
- Existing Footpath Stopped Up
- Proposed Shared Path/Cycleway
- Other Routes with Permitted Access
- Ancient Woodland including 25m Buffer

Fig 14. Illustrative Public rights of Way

8. DESIGN CODE 04 – THE PUBLIC REALM AND PUBLIC RIGHTS OF WAY



- Key:
- Order Limits
 - Existing Bridleway
 - Existing Footpath
 - Proposed Footpath
 - Existing Footpath Stopped Up
 - Alternative Route
 - Proposed Bridge

Fig 15. Illustrative Public rights of Way at Level Crossing Points

9. DESIGN CODE 05 – DEVELOPMENT PLOTS

9.1 General

It is proposed that the design of the HNRFI will comprise defined development plots, accessible from the internal distributor roads and consist of units of varying sizes & site layout arrangements, to appeal to the requirements of individual occupiers. Whilst individual occupiers may have some exacting requirements that will have to be specifically addressed, the design codes set out below will provide the starting point for all developments to be considered against.

9.2 Specific Codes

- Building layouts will be configured such that the active office frontages will address the internal distributor roads or the main A47 Link Road to enhance the public realm;
- Car parking will be readily accessible & visible from both the internal distributor roads and the active office frontage to provide natural surveillance.
- The amount of car parking on each plot will be determined by the Local Authority standards with a need to support the Framework Travel Plan;
- This will include a minimum 5% disabled parking provision
- Where possible, there will be a minimum of 2m of on-plot landscaping between the development & the plot boundary with the internal distributor road / A47 Link Road infrastructure;
- Segregation of car and service vehicle access will be provided for each of the individual plots;
- This segregation should be in the form of separate access positions;
- Covered cycle parking will be provided in accordance with the approved ratios and will be positioned close to each building entrance in a secure, visible & well-lit location;
- Service areas will be a minimum depth to allow for a 25m diameter turning circle;
- Where security is required to service yards and the building perimeter, this will be in the form of green coated paladin fencing, minimum 2.4m high;
- Visual screening will be provided to the perimeter of the site by on plot landscaping;
- All car parking and frontage landscaping areas to be open and un-fenced to 'face on' to the frontage and include landscaping in car parking areas where practicable;
- Boundaries between buildings to be security fencing within grassland.



Fig 16. Illustrative development plot



Fig 17. Illustrative development plot

9. DESIGN CODE 05 – DEVELOPMENT PLOTS

9.3 Development Plot Landscaping

The landscape treatment of each Development Plot will be appropriate to the function of the buildings insofar as it will reflect the scale and land uses common to developments of this type, and will help to establish the overall development as a prime business destination. It will also link in with the main park landscaping proposals to produce a cohesive development.

9.3.1 Development Plot Landscaping – Specific Codes

- Native tree, shrub, hedgerow and wildflower planting will be designed to reflect the native species of local importance;
- Native hedgerow will be planted in staggered rows and planted with native species of local importance;
- Native tree planting along the perimeter security fencing will be set back from the fence line by an appropriate distance to enable the future maintenance of the hedgerow;
- Landscaping within the development plots will be developed as tree and shrub zones, using a mixture of specimens and species, which will be planted as insurance against future disease and failure;
- Tree planting will be arranged within informal groupings, and designed to provide a long-term solution to filter views of, and lighting from, new buildings and external yards;
- The hedgerows will establish green connections across the site linking the landscape buffer with the green infrastructure at the core of the development along the internal distributor roads and A47 Link Road. These hedgerows will support a network of habitat routes and environments, whilst promoting local landscape character;
- Tree and hedgerow planting should be designed to create focal points within each plot at these locations so that entranceways are clearly identifiable from the access routes of the development;
- The landscaping of each development plot will be established and maintained for longevity with an appropriate management plan.



Fig 18. Illustrative On plot landscaping



Fig 19. Illustrative On plot landscaping

10. DESIGN CODE 06 – RAILPORT

10.1 General

It is proposed that the design of the HNRFI will include an intermodal freight terminal or 'Railport' capable of accommodating up to 16 trains up to 775m in length per day, with hard-surfaced areas for container storage and HGV parking and cranes for the loading and unloading of shipping containers from trains and lorries. The Railport is connected to the Felixstowe to Nuneaton Freight line and is designed with an 'in and out' arrangement with two connections onto the main line to minimise shunting within the Railport itself.

Empty containers will be stacked in a separate 'Railport returns area' located to the south of the proposed A47 Link Road adjacent to the south-western end of the Railport.

10.2 Specific Codes

- The Railport and returns area will both be screened visually through the use of landscaped bunds to the south and west to minimise its impact on the wider area and amenity space.
- Vehicular access will be taken from its own dedicated internal distributor road from the A47 Link road to avoid interaction with the wider development.
- A dedicated link road from the Railport to the internal distributor road within the Main Site will be provided to allow for the use of HGV's or tugmaster trailers to move containers to the non-directly rail connected buildings, and allow the whole park to be rail-served.
- The Railport will also be provided with dedicated ancillary office and welfare accommodation as well as parking facilities for the employees. The accommodation will match the design aesthetic of the rest of the development.



Fig 20. Freight train and reach stacker loading

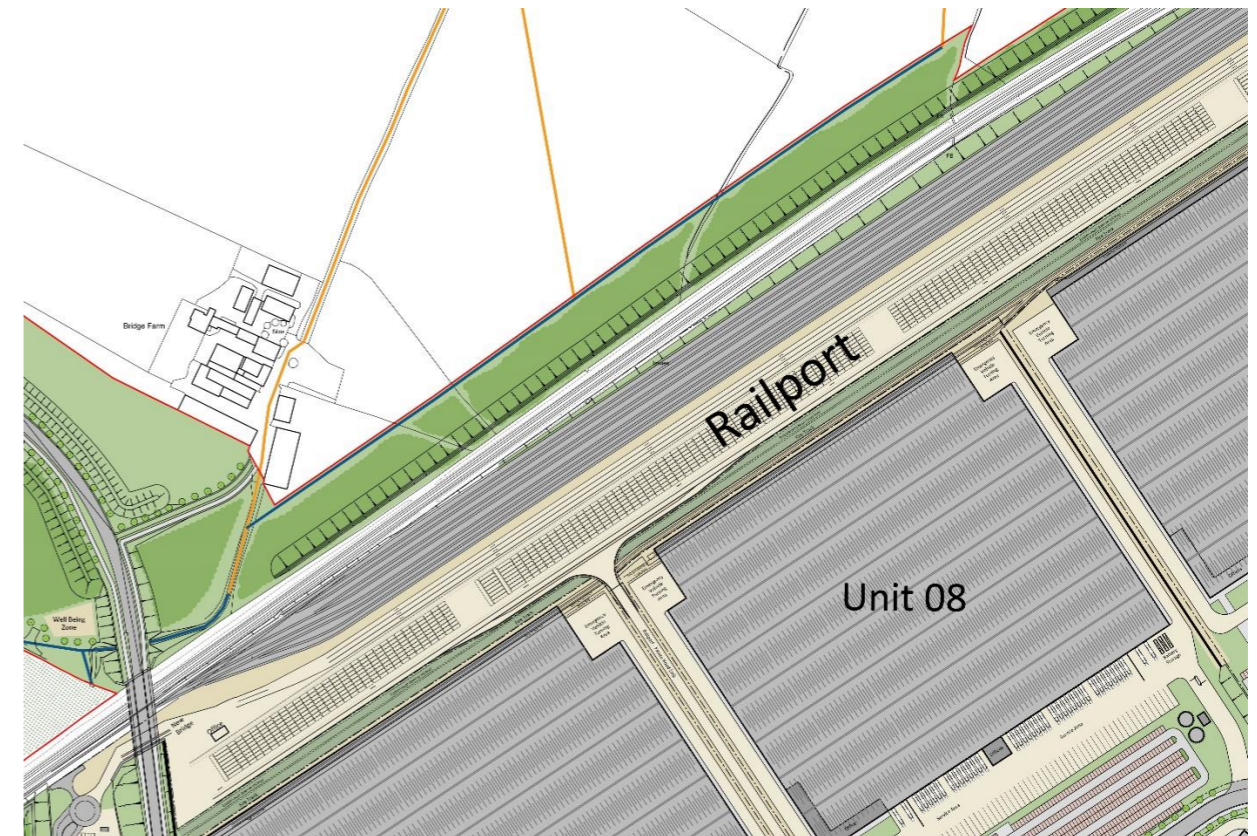


Fig 21. Extract from illustrative masterplan of Railport.

11. DESIGN CODE 07 – BUILDING DESIGN, COLOUR PALETTE & EXTERNAL LIGHTING

11.1 General

The form of the distribution buildings will need to address the following two primary drivers, as well as addressing the brief of the client to sit alongside their own portfolio of developments but be a clearly identifiable scheme that responds to the individual needs of the wider marketplace.

- To sit harmoniously within the site setting when seen from key long views.
- To present an attractive, well considered, and high-quality design when seen from shorter views and avoiding a monolithic appearance.

From the long views, the site will generally be seen against the agricultural landscape and adjacent Burbage Common and Woods as well as between the major infrastructure corridors of the M69 and the railway. Therefore, its impact can be mitigated using a subtle banding from a suitable colour palette, balanced with sensitively designed vertical elements, in order to break up the long elevational expanses. The roof scape was also a key consideration in order to assist in assimilating the built forms within their immediate context.

11.2 Specific Codes - Building Form

- To sit harmoniously when seen from long views, building facades will include horizontal elements to assist in anchoring the building into their setting. This can be achieved with combinations of horizontal cladding and/or bands ribbon glazing;
- Curved roof forms to be used to soften the profile of the building;
- To present an attractive and well considered design when seen from shorter views within the public realm, buildings will use a combination of horizontal and vertical elements to avoid a monolithic appearance.

11.3 Specific Codes - Building Height

- The development plots, as illustrated upon the parameters plan are designed to differing criteria with regard to building height in order to provide the maximum flexibility the occupiers demand, as well as respecting the impact upon the wider landscape. As such the maximum heights of the buildings have been set between 22m and 28m above FFL, and all relative to their own building plateaus. This in turn has dictated 'glass ceilings' beyond which the buildings won't protrude.



Fig 22. Illustrative building form



Fig.23. Illustrative example of application of design principles roof form.

11. DESIGN CODE 07 – BUILDING DESIGN, COLOUR PALETTE & EXTERNAL LIGHTING

11.4 Specific Codes - Office Design

- Office accommodation will be located to overlook the car parking areas and entrance spaces;
- Different cladding types will be used on the office elevations to assist in creating an active and well-designed frontage which is readily distinguished from the rest of the building;
- Large areas of glazing will be used to create prominent entrance areas;
- Entrance areas are to be emphasised with the use of external porticos so that they are clearly visible from the approach to the building as with other units throughout the park meaning entrances will be easily identified for each building;
- Office windows will comprise full height glazing modules at each level to maximise the enhancement of these components, whilst sitting in a contrasting colour cladding to differentiate them from the rest of the building whilst sitting harmoniously within the facades.



Fig.24. Illustrative example of office design.



Fig.25. Illustrative example of office design and main entrance arrangement.

11. DESIGN CODE 07 – BUILDING DESIGN, COLOUR PALETTE & EXTERNAL LIGHTING

11.5 Specific Codes – Materials

- The building designs will include the use of different cladding profiles, to create subtle variations in texture and provide relief to large elevations;
- Office elevations will use either flat or micro-rib profile panels;
- Where the offices are inset into the body of the main building, then the band of cladding below the building eaves will be consistent around the whole building;
- Warehouse elevations will use profiled cladding types in a combination of both vertical and horizontal orientations.



Fig.26 Application of material and colour



Fig.27 Application of material and colour

11. DESIGN CODE 07 – BUILDING DESIGN, COLOUR PALETTE & EXTERNAL LIGHTING

11.6 Specific Codes - Colour Palette

- The colours have been chosen to reflect those of other, established Tritax Symmetry developments and identify themselves as a continuation of their developments, creating a subtle yet contemporary appearance. The colour palette is as follows:

Warehouse Roof, Eaves and Fascia:

- Anthracite (RAL 7016)

Warehouse Walls (including corner feature areas):

- Albatross (RAL 240 80 05)
- Alaska Grey (RAL 7000)
- Hamlet (RAL 9002)
- Oyster (RAL 7035)
- Slate Grey (RAL 7012)

Offices:

- Marlstone (RAL 1013)

Hub Offices

- Slate Grey (RAL 7012)
- Elevations will be composed using colours from this palette in broad bands, both horizontally and vertically, to achieve the stated codes for Building Form above.

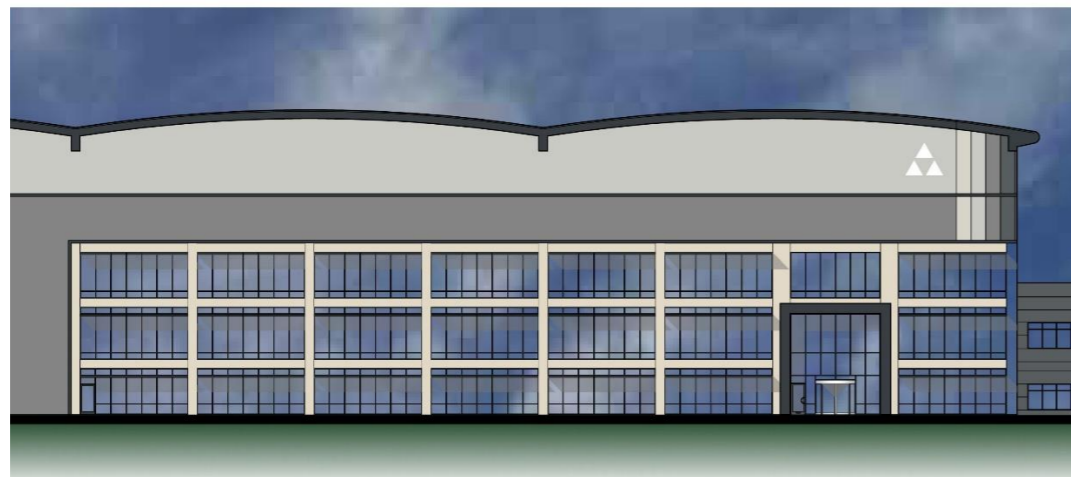


Fig. 28 – Typical Office Material Application

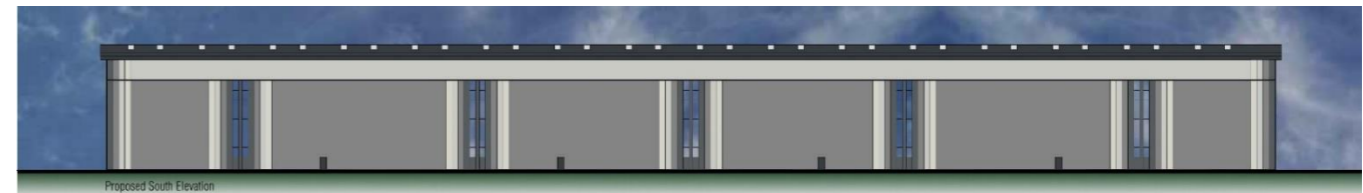


Fig. 29 – Typical Elevation Material Application

11. DESIGN CODE 07 – BUILDING DESIGN, COLOUR PALETTE & EXTERNAL LIGHTING

11.7 Specific Codes - External Lighting

- BS 5489-1:2013 Code of Practice for the Design of Road Lighting;
- BS EN 12464-2:2014 Light and Lighting - Lighting of work places;
- GN01:2011 Institution of Lighting Professionals (ILP) Guidance Note for the Reduction of Obtrusive Light;
- Lighting and the Environment - A Guide to Good Urban Lighting, Chartered Institution of Building Services Engineers (CIBSE)· Bat Conservation Trust (2014) Artificial Lighting and Wildlife. Interim Guidance: Recommendations to help minimise the impact of artificial lighting;
- Lighting should be Dark Skies Compliant (in-line with guidance from the international Dark Sky Association (IDA), described in CIBSE Lighting Guide LG6:1992) and take into account requirements for air safety (as set out in the Airport Operators Association Advice Note 2) along with any ecological requirements;
- A lighting strategy setting out the location and type of lighting proposed, will accompany all Reserved Matters applications;
- Lighting will be a combination of building mounted and column mounted lighting units. The lighting design will utilise good quality, attractive 'dark sky' fittings, directed downwards and with no spillage above the horizontal to avoid light pollution;
- The mounting height of lighting units will be no greater than 12 m within the building development plots themselves, the use of high-mast lighting will be limited to the Railport itself;
- For the access roads and car parking areas all mounting heights will be 8 to 10 m. For the HGV loading / Access / Docking areas all mounting heights will be 10 to 12m. All units will have flat glass and mounted horizontally;
- Lighting impacts on all receptors will be minimised by careful design. If needed, baffles and shields will be attached to lighting units to further reduce lighting effects especially adjacent to dark corridors;
- Any proposed lighting will not have the potential for glare or to dazzle pilots or be confused with aeronautical ground lighting;
- Public realm lighting should have a uniformity e.g. street lighting would need to be the same columns with a uniform lighting palette;
- External lighting will be provided wherever necessary to provide a safe and secure environment for staff and other users after dark. 'Secured by Design' principles will be adopted and emphasis will be placed on achieving good uniformity of light distribution.
- The lighting lux levels will be kept to a minimum when adjacent to any natural habitats and will avoid direct light spill into sensitive locations.



Fig 30. Column mounted and building mounted, light fittings for the development plots and highways.

12. DESIGN CODE 08 - VISUAL IMPACT, SECURITY, ACCESSIBILITY, PLANT, BOUNDARIES AND SIGNAGE

12.1 General

The purpose of the design code is to control the detail of future Reserved Matters applications, and as such there are a number of component parts that make up the ultimate finished development that specific codes can be applied but don't fall under generic headings and this chapter is set up to capture those elements.

12.2 Specific Codes - Reduction in Potential Landscape and Visual Impacts

- Coatings to building cladding will be a non-glossy matt material in colour stated overleaf, to ensure the new buildings are visually recessive;
- The roofs will be finished in Anthracite (RAL 7012) with a non-glossy matt coating to be recessive and so that glare is avoided when viewed from the wider landscape;
- The prescription for overall building heights has been addressed in the previous chapter and will be responsive to the surrounding area;
- Once the strategic landscaping is implemented, ensure that existing and new landscape elements are appropriately managed to ensure establishment and long term management;
- The landscape proposals developed for individual plots within the development which reflect the rationale of the proposed strategic landscaping for the proposal and ensure a similar specification of native species of local importance. This will ensure continuity of the overall scheme, preservation of landscape mitigation measures as well habitat enhancement, along with enhancing local landscape character.

12.3 Specific Codes – Security

- Barriers will be provided to the individual site entrances to provide out of hours security;
- Gatehouses will be provided at the entrance to the service areas to monitor and control the flow and access to the individual buildings;
- Secure parking will be provided for cycles located in highly visible and supervisable locations;
- External lighting will be designed to BS 5489 to achieve appropriate levels of illumination in all areas;
- Good natural surveillance will be provided for parking and pedestrian areas, including footpaths and cycleways;
- All external doors fitted with secure frames and locks.



Fig 31. Gatehouse at entrance to service areas.



Fig 32. Secure and covered cycle shelters.

12. DESIGN CODE 08 - VISUAL IMPACT, SECURITY, ACCESSIBILITY, PLANT, BOUNDARIES AND SIGNAGE

12.4 Specific Codes - Energy Efficiency and Sustainability

- A proportion of the energy requirements for the development will be addressed through the provision of onsite generation of renewable energy with PV arrays mounted on the roofs;
- Energy consumption will be minimised by making maximum use of natural heating and cooling processes;
- Energy conservation will be maximised through the use of efficient building fabric;
- Natural daylighting will be maximised within office elements with areas of glazing. Excessive solar gain will be avoided by considering aspect, glass specification and external shading features such as brise soleil;
- The percentage of rooflights within the distribution buildings has been set at 10% of the floor area, which in combination with feature glazing withing the wall maximises natural daylighting, whilst minimising heat gain;
- Office elements will seek to make best use of natural ventilation by considering office depth and dual aspect planning, where the requirement permits;
- Buildings will be designed to incorporate Building Energy Management Systems to control heating, lighting, ventilation, hot water supply and renewable energy interfaces;
- All materials will be selected for their robustness, recyclability, value and availability from local and sustainable sources, which can be verified by data sheets provided by the relevant manufacturer/supplier;
- The use of non-recyclable plastics will be avoided, and alternative materials requested to be put forward for consideration;
- The availability of a material from a local source, whether that be the raw material or manufacturing facility will be given full consideration;
- The use of materials and surface treatments which produce harmful emissions will be avoided;
- Each of the plots within the development will be designed to achieve a cut and fill balance, removing the need to export large quantities of material off site.

12.5 Specific Codes – Accessibility

- All crossings within the development will comprise dropped kerbs and tactile paving;
- All entrances and exits will be designed with level thresholds;
- Vertical access will be provided to all levels;
- Accessible parking areas will be located as close as possible to the main vertical circulation points to minimise travel distance.

12.6 Specific Codes - Waste and Recycling

- Where external waste management areas are required by occupiers, these will comprise covered bins to separate out recyclable materials effectively screened within a gated enclosure;
- Enclosures to be timber hit and miss construction and 2.4m high.



Fig 33. Secure waste and recycling enclosures.

12. DESIGN CODE 08 - VISUAL IMPACT, SECURITY, ACCESSIBILITY, PLANT, BOUNDARIES AND SIGNAGE

12.7 Specific Codes - External Plant and Equipment

- All external plant and equipment will be effectively screened within a gated enclosure;
- Enclosures to be timber hit and miss construction and 2.4m high;
- Any roof mounted plant should be minimised and incorporated into the design of the building.

12.8 Specific Codes - Boundary Treatment and Fencing

- Where service yards and operational areas require enclosure, this will be between 2.4m and 3.0m high green coated steel paladin fencing, with appropriate gates and barriers;
- Where possible, car parking areas will remain open with barriers to control out of hours vehicle access if required by the occupiers.



Fig 34. Typical boundary security fencing.

12.9 Specific Codes - Estate Signage

- Estate signage will be provided at the entrance to the development. This will be prominent and designed to reflect the character of the development and the Tritax symmetry branding.

These will create a gateway into the site. Directional signage will be provided within the development site identifying individual occupiers. A modular system will be used which permits adaption and expansion as functional needs require, whilst establishing a family of signs to create a cohesive approach to estate signage. Directional signage will be illuminated where required.



Fig 35. Typical estate signage totem.

12. DESIGN CODE 08 - VISUAL IMPACT, SECURITY, ACCESSIBILITY, PLANT, BOUNDARIES AND SIGNAGE

12.10 Specific Codes - Building Signage

- The application clearly identifies signage locations on both the facades and roofs of the building for the developers signage and individual occupier signage will be subject to their own Advertisement Consent applications.



Fig 36. Illustrative building and park signage

12.11 Specific Code – Trim Trail and Well Being Zones

- The park will gain the added benefit of not only the use of the internal footpaths and cycleways as a means to enjoy the outdoor environment and setting of the park, but also the linkages through to the existing public footpaths and bridleways that form a loop around the whole of the development as well as linking back to the wider area. In addition to the ability to circulate, the appropriate use and siting of exercise equipment and seating areas will also be considered.
- In addition to the combined footpaths and cycleways and making use of the proposed footpaths and bridleways through the perimeter landscaping, it is proposed that there will be a park trail, and as it meanders around the development plots and into the soft areas these will be formed in a hard compacted gravel finish appropriate for use by all users.
- This park trail will break out into well-being zones located around the whole site and be for the benefit of the public and employees alike. These well-being zone will include activity / exercise equipment and amenity seating areas and be set on localised hardstanding areas to ensure both safe use and access.



Fig. 37 Illustrative Activity Hub



Fig 38. Illustrative Social Space Seating