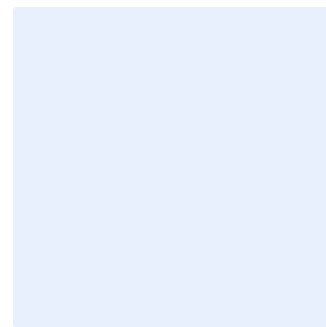


Habitat Management and Monitoring Plan

Site Name:	St Joseph's Convent of Mercy, Gravesend
Date:	11/06/2026
Version:	Rev 03



Author:
Sam Hall
MSc BSc (Hons)

Client:
Sisters of Mercy

Contents

1. Project Background..... 3

Summary of Management Plan 3

Site Boundary Plan PB-F01..... 4

Site Context Plan PB-F02..... 5

Phasing strategy..... 6

Roles and Responsibilities 6

Land Use Summary 8

Site Context Photos PB-F03..... 8

Site Baseline, Environmental Information and Associated Impacts Checklist PB-T01 9

Baseline Habitats Plan (BI-F02) 10

2. Planned Management Activities 11

Principles Informed by Design Stage..... 11

Habitat and Condition Targets PM-T01 12

Proposed Habitat Creation, Enhancement and Management Plan EM-F01..... 13

Habitat Retention..... 14

Habitat Retention Plan PM-F01 15

Other Neutral Grassland..... 16

Mixed Scrub..... 22

Individual Trees 26

Habitat Creation and Management – Risk Register and Remedial Measures PM-T02 30

3. Monitoring Schedule 31

Monitoring Strategy 32

Monitoring Methods and Intervals MS-T01 33

Monitoring Reports 34

Adaptive Management..... 35

Version Control

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01	Planning	Sam Hall MSc BSc (Hons) 26/11/2025	Catherine O'Reilly BSc (Hons) MCIEEM 26/11/2025
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03	Planning	Sam Hall MSc BSc (Hons) 11/06/2026	Catherine O'Reilly BSc (Hons) MCIEEM 11/06/2026

Document Details

Authorship Details
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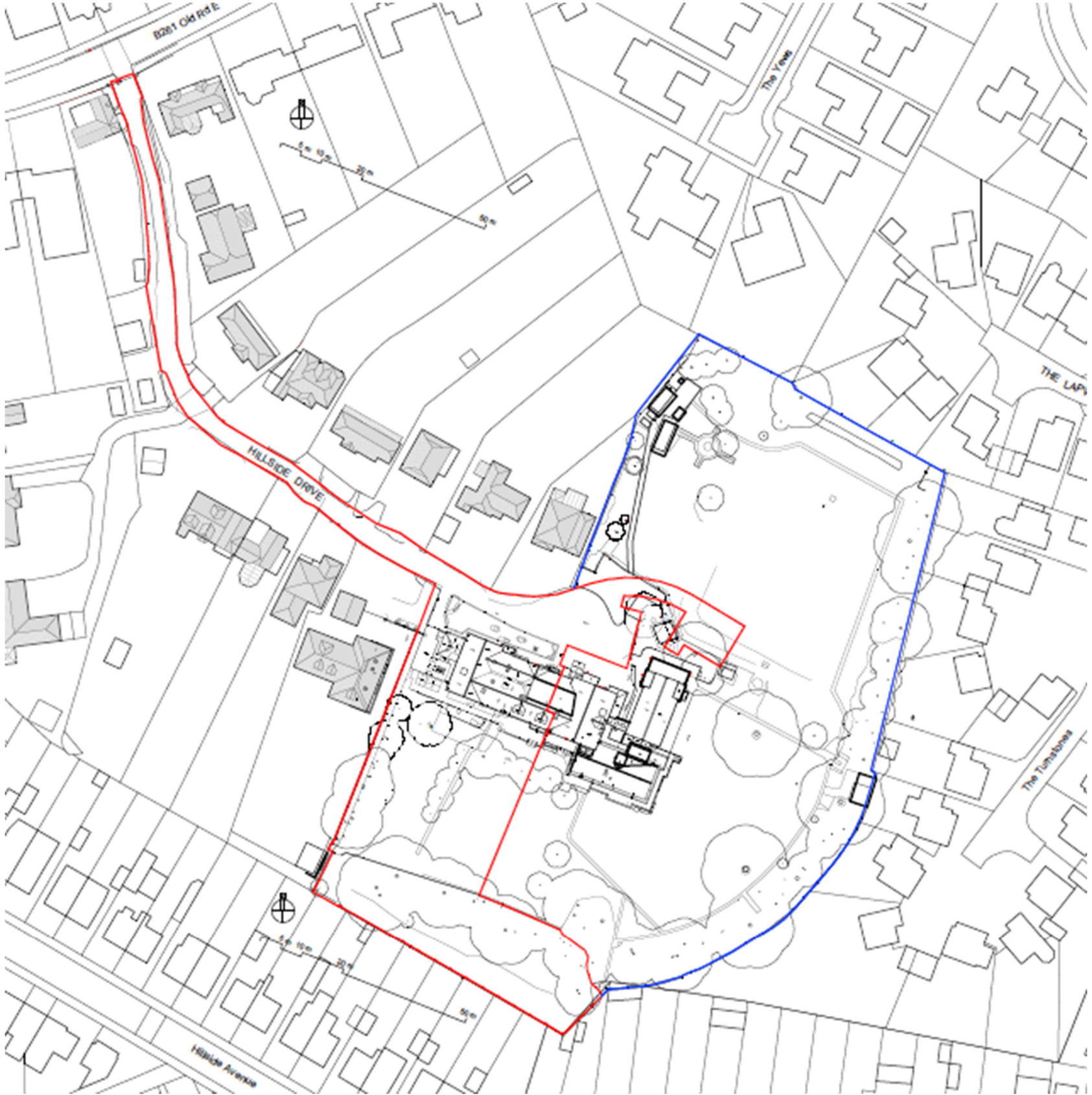
1. Project Background

Site Overview PB-B01	
Project type	On-site
Development Name and Address	St Joseph’s Convent of Mercy, Gravesend
BNG Project Name and Address	N/A
Author Organisation	Lizard Landscape Design and Ecology (LLDE)
Landowner	Sisters of Mercy, Gravesend
Land Manager	N/A
Responsible person/organisation for creating or enhancing the habitat	To be appointed by Landowner
Period covered by this management plan	30 years from completion of development
Planning authority	Gravesham Borough Council
Planning reference (if applicable)	20241161
BNG register reference (if applicable)	N/A
Central OS grid reference	TQ 65633 72863
Metric revision/title	LLD3294-ECO-CALC-001-00-METRIC Convent
Are any Irreplaceable Habitats present onsite	Yes: ☐ No: ☒

Summary of Management Plan

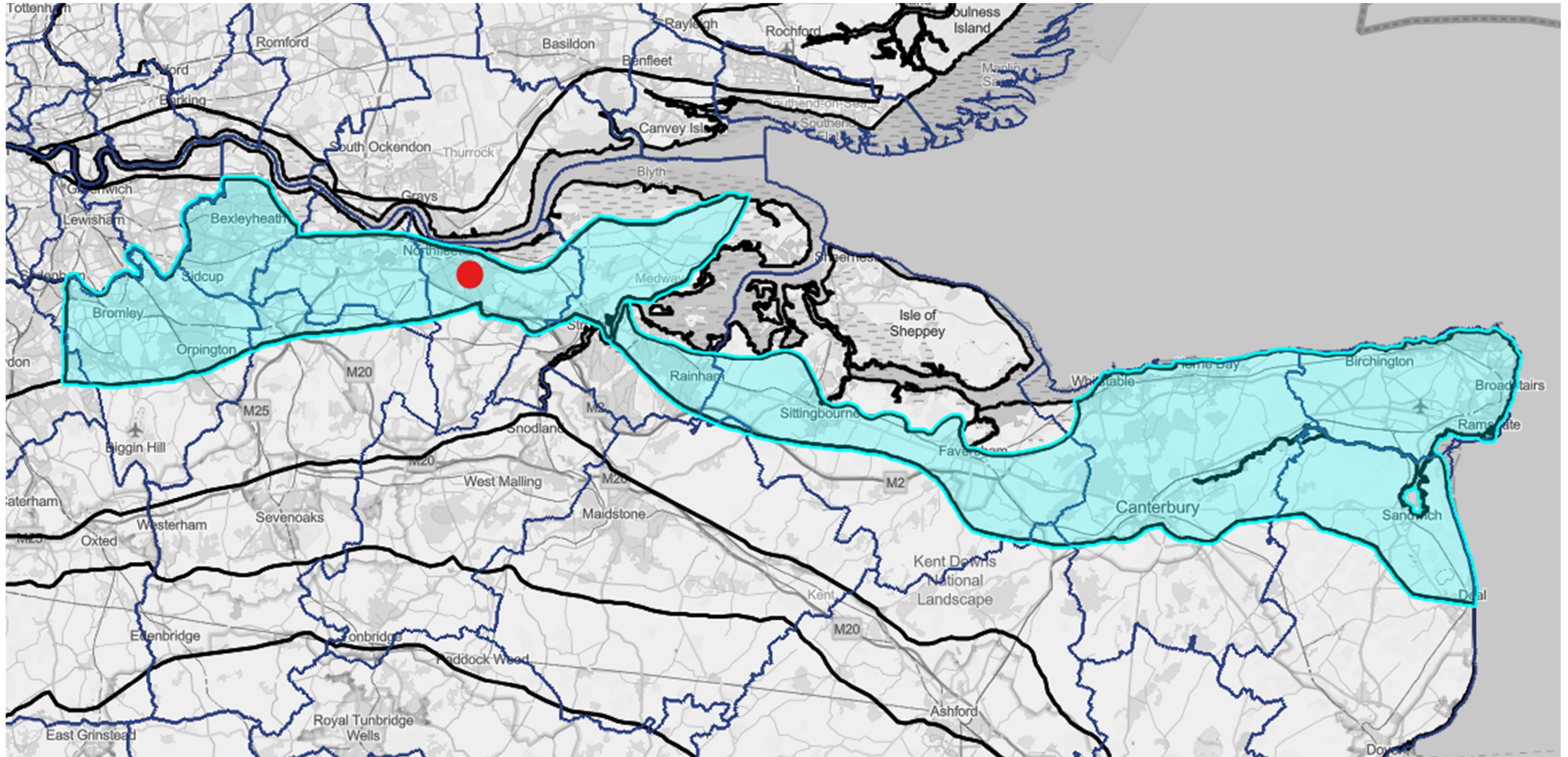
Habitats to be Retained, Created and Enhanced PB-B02
This Habitat Management and Monitoring Plan (HMMP) covers significant on-site enhancements for on-site habitats, which are anticipated to be secured through S106 or planning condition. This HMMP encompasses the creation and enhancement measures to be implemented, which are to be completed in year 0 (est. 2026), alongside ongoing management and monitoring measures to be implemented throughout the statutory 30-year period. This includes provisions for the creation/enhancement of other neutral grassland, mixed scrub and small individual trees in moderate condition, as well as retention of woodland.

Timescales for Actions PB-B03
This HMMP includes detailed management and monitoring plans for habitat creation and enhancement over the first five years. It also includes general management specifications which are likely to be required for the duration of the statutory 30 years management period. However, the HMMP will need to be reviewed and amended as is required at the end of the first 5-year period. The proposed management schedule includes routine landscaping visits on a monthly basis for the first year after any creation or enhancement. Thereafter, management will be focused on occasional visits during the growing season. It is intended that all management and monitoring prescriptions provided in this document and therefore the 30 year requirement will commence following completion of the development.
Monitoring Requirements PB-B04
This HMMP provides specifications for the monitoring strategy over the 30-year period. Detailed information on the monitoring schedule, and methodology to be completed by both the assigned landscaper and ecologist are also included for the first five years. Details are set out for monitoring reports for them to be adequately reviewed by the Local Planning Authority (LPA). After the 5-year period the HMMP should be reviewed and amended to ensure the monitoring strategy is still appropriate.
Required Consents and Licences PB-B05
Consent from the landowner will be required to access the land within their ownership for monitoring. Where land has been sold this shall be secured through legal agreements at the exchange of deeds.
Funding PB-B06
Initial habitat creation and enhancement and on-going management of on-site habitats shall be funded by Sisters of Mercy. Wherever any land is to be sold this shall be secured through transfer of the deed of ownership and could be secured before the sale of any land.
Legal Agreement PB-B07
It is expected that the LPA will impose management and monitoring responsibility on the landowner through S106, and / or planning condition/s.



Site Context Plan PB-F02

The site is situated within Gravesham Borough Council LPA, and within the North Kent Plain National Character Area (NCA). Directly adjacent LPAs include Medway, Tonbridge and Malling District, Sevenoaks District, Dartford District and Thurrock. Directly adjacent NCAs include Greater Thames Estuary, North Downs, Thames Basin Lowlands and Inner London.



Data taken from Natural England National Character Areas. Contains OpenStreetMap Data © OpenStreetMap 2025.

Phasing strategy

Will the proposed work measures be delivered in phases? PB-B08	Yes: ☐ No: ☒
N/A	

Roles and Responsibilities

Ecologist or Other Professional Responsible for HMMP PB-B09				
Name or Initials		SH		
Organisation		Lizard Landscape Design Ltd.		
Responsibility	Start Date:	Est. 2026	End Date:	Est. 2031
Hereafter referred to as ‘the ecologist.’ Responsible for producing the HMMP, monitoring report template and ensuring management meets the requirements set out in the BNG plan. Responsible for conducting ecological monitoring visits by assessing the species composition and percentage cover within each habitat parcel. Responsible for identifying the progress of habitats in reaching the desired distinctiveness and condition criteria for the first five years. Will produce monitoring reports which incorporate a summary of findings for the landowner with any recommendations for adaptive management to ensure habitats reach the desired condition and distinctiveness if necessary. The ecologist will review and amend the HMMP at the end of the first five years. Thereafter, it will be the responsibility of the landowner to appoint a professionally qualified ecologist to conduct subsequent monitoring visits over the next 5-year period. Management is required to be appointed for the duration of the mandated 30-year timeframe.				
Statement of Competency				
SH has 4 years of professional experience in the ecological consultancy sector. SH has a wealth of experience in writing and producing ecological reports, including long-term habitat creation and management plans.				

Landowner or Land Manager PB-B10				
Name or Initials		Sisters of Mercy		
Organisation		Sisters of Mercy		
Responsibility	Start Date:	Est. 2026	End Date:	Est. 2056
Hereafter referred to as ‘the landowner’. Responsible for funding and assignment of roles. Responsible for ensuring monitoring reports produced by the ecologist are provided to the LPA, for the full duration of the 30-year period. Responsible for the appointment of the assigned landscaper or landscaper and ecologist. These should be professional qualified responsible bodies to ensure effective implementation of the HMMP. At the end of the five-year monitoring and management period detailed herein the landowner must ensure that the HMMP is reviewed, before then appointing a professionally qualified ecologist and landscaper to conduct subsequent management and monitoring visits over the next 5-year period. Management and monitoring are required to be appointed for the duration of the full 30-year timeframe as detailed herein. Responsible for informal monitoring and enforcing remediation of any obvious deleterious impacts associated with increased levels of pressure / access to on-site habitats. They are responsible for ensuring that impacts such as trespassing, trampling of vegetation, storage/dumping of materials, littering, arson, spread of non-native and invasive species (e.g. from ornamental planting) do not have any undesirable impacts on the habitats detailed herein and taking reasonable preventative measures. Should landownership change, in part or in full, then it will be the responsibility of Sisters of Mercy to provide this document to the new owner. Thereafter, all responsibility will fall to the new landowner.				
Statement of Competency				
Sisters of Mercy as an organisation are aware of their obligations and responsibilities in regard to delivering BNG on the site. The management of the proposed on-site habitats require simple management and has been deemed that private individuals and contracted estate management are capable of the management techniques required to achieve the target conditions set out in the BNG metric.				

Management Organisation(s) Responsible for Implementing the HMMP PB-B11				
Name or Initials		TBC		
Organisation		TBC		
Responsibility	Start Date:	Est. 2026	End Date:	Est. 2056
Hereafter referred to as ‘the assigned landscaper.’ Responsible for the implementation of habitat creation and management. Responsible for the soil preparation, planting, seeding, watering, and ongoing management of the habitats on-site for the first five years. Responsible for conducting routine management and monitoring whilst habitats establish and prescribing further adaptive measures as required. Will provide a summary of any recommendations and management actions taken to the landowner and ecologist to include in the ecological monitoring reports every year, for the first five years. The assigned landscaper will provide a review of actions taken over the first five years at the end of this period. Thereafter, it will be the responsibility of the landowner to appoint a competent landscape management organisation to conduct subsequent work over the next 5-year period. Management is required to be appointed for the duration of the full 30-year timeframe.				
Statement of Competency				
A suitable qualified landscape contractor will be assigned to undertake the habitat creation works outlined herein, as well as the ongoing management of the proposed soft landscaping on-site. The assigned landscaper shall have the requisite knowledge and experience required to deliver the habitats outlined herein in line with the outlined management specifications. A statement of competency will be provided to the LPA prior to the commencement of any habitat creation or enhancement works.				

LPA or Responsible Body for Reviewing HMMP PB-B12				
Name or Initials		N/A		
Organisation		Gravesham Borough Council		
Responsibility	Start Date:	Est. 2026	End Date:	Est. 2056
Hereafter referred to as ‘the LPA.’ Responsible for review of monitoring reports as well as authorisation of adaptive management and emergency works. Responsible for reviewing monitoring reports and approving any required remedial action such as major adaptive management prescriptions required to meet the desired habitat distinctiveness or criteria, which is not set out herein. Responsible for auditing habitat progress and conducting enforcement should management and monitoring not be upkept.				

Land Use Summary

Overview of Baseline Site Use PB-B13

The site covers c. 0.47-hectares (ha) and comprises the western half of a convent building and associated hardstanding access and managed garden habitats. On-site habitats include developed land; sealed surface, modified grassland, introduced shrub, tall forbs, other woodland; mixed and individual trees.

The surrounding landscape is urban and dominated by residential development with the built mass of Gravesend extending out at least 1.4km in all directions. The river Thames is located c. 1.5km north of the site.

Overview of Proposed Site Use PB-B14

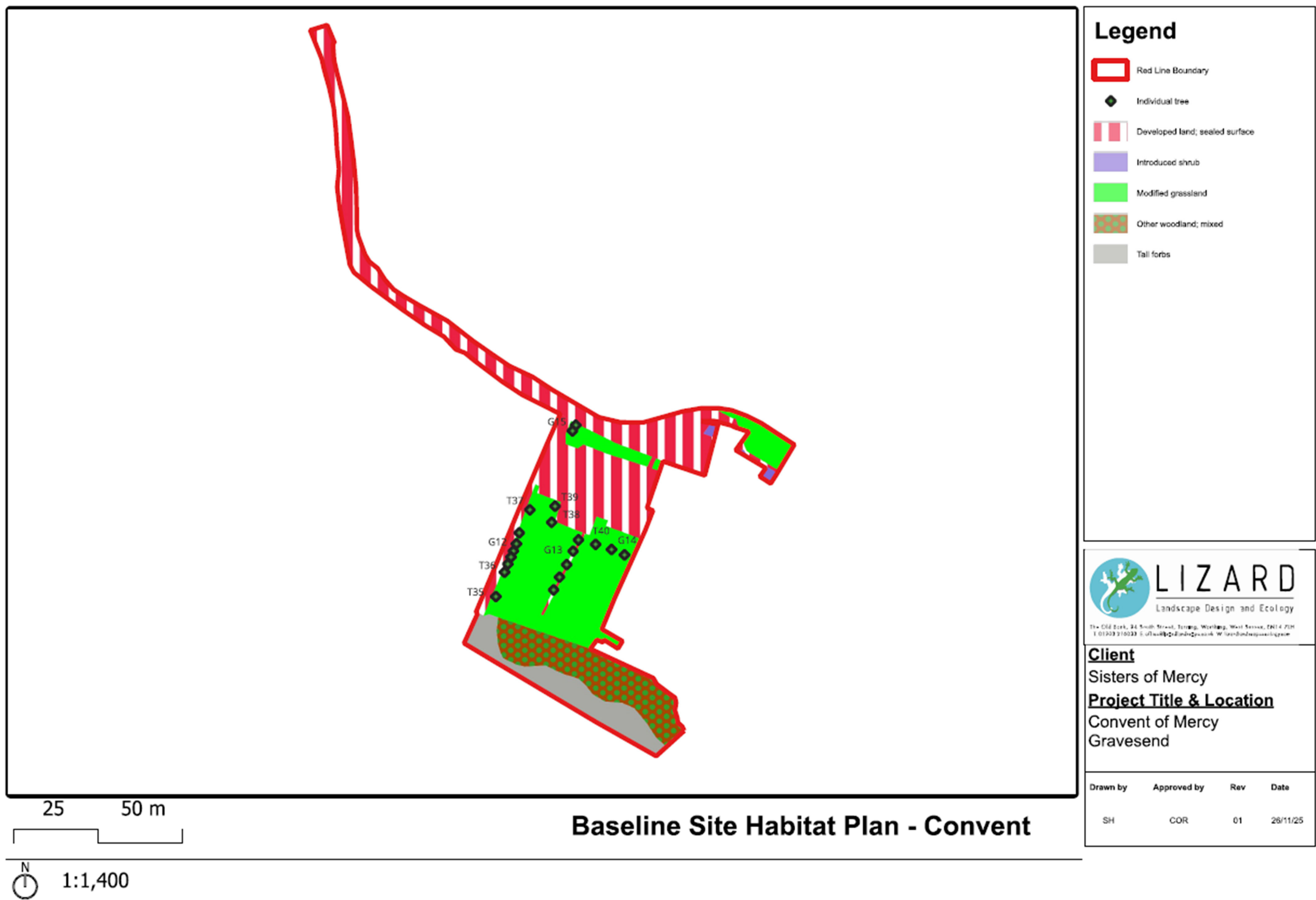
It is understood that the proposals are for the redevelopment of the western half of the convent building into 3no. dwellings with private gardens and new hardstanding access and parking. Some of the site area would be retained outside of the new residential curtilages to allow for the provision of BNG habitat units, including enhancement of grassland to other neutral grassland and creation of mixed scrub and individual trees.

Site Context Photos PB-F03



Site Baseline, Environmental Information and Associated Impacts Checklist PB-T01

Baseline and Environmental Information		Check box if included	Document Reference
Statutory / Non-statutory Designated Sites	The site is not within or adjacent to any statutory or non-statutory designated sites, so no direct impacts anticipated.	☒	LLDE. (2024). <i>Ecological Impact Assessment</i> . Report Ref: LLD3294-ECO-REP-001-00-EcIA.
Protected and Notable Species	Further ecological surveys at the site identified the presence of roosting bats. Habitat creation and ongoing management has been designed to benefit this species group and a range of other wildlife.	☒	LLDE. (2024). <i>Ecological Impact Assessment</i> . Report Ref: LLD3294-ECO-REP-001-00-EcIA.
Invasive Non-Native Species (INNS)	Ecological surveys identified no invasive non-native species on-site. No constraints or opportunities identified.	☐	LLDE. (2024). <i>Ecological Impact Assessment</i> . Report Ref: LLD3294-ECO-REP-001-00-EcIA.
Biological Records Plan - Sites and Species	No significant constraints identified. Appropriate avoidance and mitigation measures built into scheme design.	☒	LLDE. (2024). <i>Ecological Impact Assessment</i> . Report Ref: LLD3294-ECO-REP-001-00-EcIA.
Baseline Habitats Survey	Habitat assessments provided in initial ecological assessments. Post-intervention habitats designed in accordance with the Biodiversity Gain Hierarchy. Figures are provided below.	☒	LLDE. (2025). <i>Biodiversity Net Gain Statement</i> . Report Ref: LLD3294-ECO-REP-003-00-BNG.
Public Access	No publicly accessible land on-site.	☐	
Climate	Proposed species composition and habitat types designed to align with surrounding landscape, appropriate for local climate. Native species-diverse wildflower mixes to be used, alongside diverse assemblage of native trees / shrub species proposed to increase tolerance to future climate change.	☒	LLDE. (2025). <i>Detailed Planting Schedule and Specification</i> . Report Ref: LLD3629-LAN-SCH-200
Geology and Topography	No specific constraints / opportunities with regards to geology or topography of the site and the proposed habitats.	☐	
Agricultural Land Status	N/A	☐	
Soils and Substrates	Underlying soil geology is freely draining slightly acid loamy soils. Wildflower grassland mixture selected will be appropriate for the soil geology.	☐	
Contaminated Land	No contaminated land identified on-site.	☐	
Hydrology and Drainage	No hydrological constraints or opportunities relevant to site area which could impact the proposed habitats.	☐	
Flood Risk Zones	The site is situated outside of flood risk zones 2 and 3.	☐	
Landscape Character and Designations	No relevant constraints identified.	☐	
Historic Land Use	The land use will remain in residential use. Does not present constraints or opportunities.	☐	
Historic Environment and Earth Heritage	The site is not situation within a conservation zone or any other historic or earth heritage designation. No constraints or opportunities identified.	☐	



2. Planned Management Activities

Management Plan Aims and Objectives PM-B01
The following overarching aims have been identified and are required to address the requirements of potential planning obligations: • Provide detailed specifications of the new medium distinctiveness habitats proposed on-site and how these will be created. • Provide detailed specifications of the ongoing management of the significant on-site habitats for a minimum period of 30 years, in order for them to achieve at least their target condition. • Provide a mechanism for adaptive management, through which the progression of the habitats may be monitored and amended, if required. • Provide a plan for monitoring and reviewing the proposed habitats to check that they are meeting the vision of this document and to determine how contingencies and/or remedial action will be identified, agreed, and implemented so that the development still delivers the fully functioning biodiversity objectives of the approved scheme.

Principles Informed by Design Stage

Design Principles Informed by Baseline Information PM-B02
The scheme has been designed to allow an area of grassland to the southwest of the proposed gardens to be retained and enhanced and for existing individual trees to be retained and new trees to be planted. Impacts to medium distinctiveness habitats have been avoided wherever possible through considered placement of the proposed access routes. Individual trees and woodland are proposed to be retained and protected throughout the construction and operation phases through tree protection barriers, and the use of no-dig construction in root protection where required. Full details are set out in the accompanying arboricultural package. The scheme design has required removal of limited numbers of existing individual trees. Many of the retained trees will be within proposed private curtilages and so cannot be secured in the long term and have been shown as lost in the associated BNG metric. New habitat creation has focused on medium distinctiveness habitats which are appropriate to the location and size of habitat parcels. This has included the creation of new mixed scrub areas and individual trees, and the enhancement of retained modified grassland to other neutral grassland. Due to the requirements for usable gardens within curtilage, areas of low distinctiveness Vegetated Garden were necessary within the scheme, however all other areas of the site have seen the creation of semi-natural habitats.

Habitat and Condition Targets PM-T01

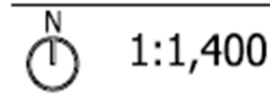
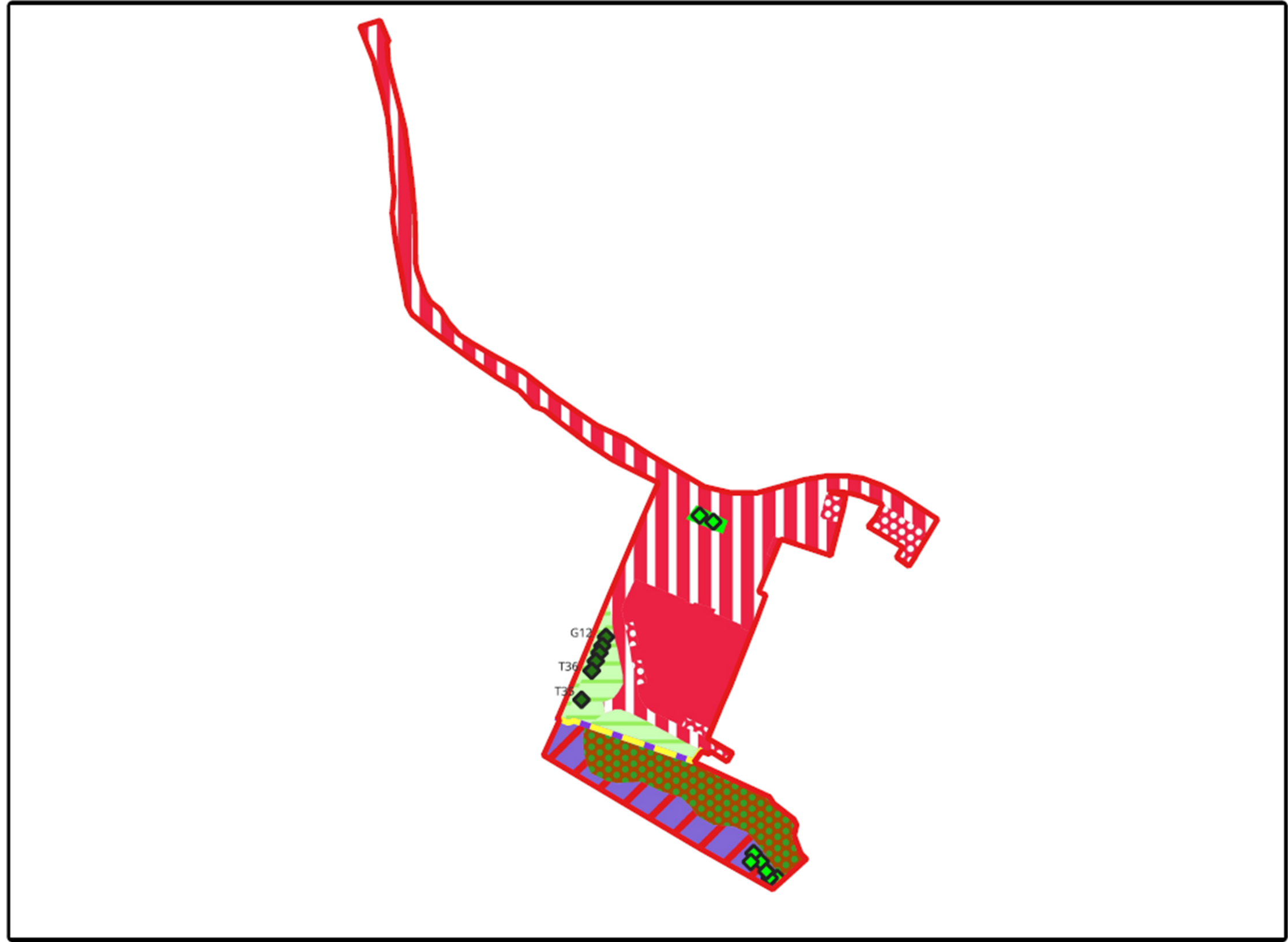
Baseline Habitat Type	Target Habitat Type	Parcel / Feature Refs	Baseline Condition	Targeted Condition	Years to Targeted Condition	Condition Assessment Targets	Comments
Modified Grassland	Other Neutral Grassland	-	Poor	Moderate	10 years	Habitat enhancement will target moderate condition medium distinctiveness grassland by meeting the following criteria: A, C, D, and E.	On-site habitat enhancement
N/A	Other Neutral Grassland	-	N/A	Moderate	5 years	Habitat creation will target moderate condition medium distinctiveness grassland by meeting the following criteria: A, C, D, and E.	On-site habitat creation
N/A	Mixed Scrub	-	N/A	Moderate	5 years	Habitat creation will target moderate condition Rural Trees by meeting the following criteria: A, C, and E.	On-site habitat creation
N/A	Individual Trees	North of convent	N/A	Moderate	27 years	Habitat creation will target moderate condition Individual Trees by meeting the following criteria: A, B, D, and F.	On-site habitat creation
N/A	Individual Trees	South of gardens	N/A	Moderate	27 years	Habitat creation will target moderate condition Individual Trees by meeting the following criteria: A, B, and F.	On-site habitat creation

Habitat and Condition Targets Further Comments

Several additional habitats are proposed to be created on-site. These comprise vegetated gardens and hard landscaping for which there is no applicable condition assessment. Therefore, these are considered non-significant enhancements.

The on-site woodland will be retained, and ongoing management is expected to maintain its baseline condition with no new management specification required.

A native hedgerow is proposed alongside the existing woodland, however this is not required as part of the BNG requirements for the site and so specific management has not been provided herein. Implementation will be proscribed within the associated landscape plans.



Proposed Site Habitat Plan - Convent

Legend

- Red Line Boundary
- Proposed tree
- Retained tree
- Native hedgerow
- Grasscrete
- Developed land; sealed surface
- Mixed scrub
- Modified grassland
- Other neutral grassland
- Other woodland; mixed
- Vegetated garden

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Client
Sisters of Mercy
Project Title & Location
Convent of Mercy
Gravesend

Drawn by	Approved by	Rev	Date
SH	COR	02	11/06/26

Habitat Retention

Measures to be Implemented to Protect Retained Habitats PM-03

The Applicant’s scheme has sought to avoid impacts to habitats wherever possible whilst working within the parameters of the end user’s requirements. This has included designing the scheme to retain individual trees where possible and protect all of the existing woodland.

As set out within the *Ecological Impact Assessment* (LLDE, 2024) Avoidance and Mitigation measures are required to provide protection to the existing trees and woodland both throughout construction and post-development. This will ensure that there is no incidental loss of trees, and that there is no subsequent degradation of habitat condition to retained habitats during construction and operation. A full *Arboricultural Impact Assessment* and *Arboricultural Method Statement* (LArch, 2025) have been provided detailing how this is proposed to be implemented.

In summary, all construction will be undertaken in accordance with best practice guidelines with regards to control of dust, noise and emissions. Where appropriate, measures such as tree protection barriers and no-dig areas will be used to prevent unnecessary damage to trees.

Specification of Protective Measures to be Used PM-04

On-site trees and woodland will be protected throughout development through the use of protective measures such as Tree Protection Barriers, Ground Protection Layers and ‘No Dig’ Construction Zones within RPAs, in accordance with *BS 5837:2012* and outlined in the associated arboricultural package.

Where individual trees are to be retained and protected, their management should be brought in line with the management that is provided for newly planted trees herein, and they will not be pruned unless crown works have been agreed as per the Arboricultural package or otherwise agreed as part of their management.



Legend

-  Red Line Boundary
-  Individual tree
-  Other neutral grassland
-  Other woodland; mixed



Client

Sisters of Mercy

Project Title & Location

Convent of Mercy
Gravesend

Drawn by	Approved by	Rev	Date
SH	COR	00	08/11/25

Habitat Retention Plan

N
1:500

Other Neutral Grassland

Creation, Enhancement and Management Summary (GH-T01)

Target Habitat				Other Neutral Grassland of moderate condition		
Condition Assessment Criteria		Targeted	Relevant Parcels	Creation Approach	Enhancement Approach	Management Approach
A	The parcel represents a good example of its habitat type, with a consistently high proportion of characteristic indicator species present relevant to the specific habitat type. Note – this criterion is essential for achieving Moderate or Good condition for non-acid grassland types only.	Yes	All	Habitat creation will include sowing of a suitable native seed mix such as <i>Emorsgate EH1 Hedgerow Mixture</i> . This mix includes a wide range of generic grassland species appropriate for a shaded area. The species composition of this mix is 20% wildflowers by weight which should ensure greater than 20% cover of broadleaved herbs and sedges. It does not include any rye grasses or white clover. This ensures that the grassland will meet all the required criteria for this to be considered a good example of the Other Neutral Grassland habitat type. The full species list for this mix is detailed below.	The enhanced grassland areas are to be scarified and overseeded with the same native wildflower seed mixture, as appropriate to the area and underlying geology.	Management will ensure that cover of broadleaved herbs and sedges do not go below 20% cover. Initial management may require ‘topping’ for the first few years if initial growth of grasses is particularly vigorous. However, after a sward has established mowing will be low intensity, and preferably done after flowers have set seed, to allow the meadow mixture to propagate and maintain itself. All arisings will be removed to avoid nutrient enrichment, and any transition to a ‘modified grassland’. If large areas of bare ground occur (as small areas are acceptable and desirable), then the area may be scarified, and resown with an appropriate seed mix. Monitoring visits will identify the species present and provide advice on any adaptive management that may be required.
B	Sward height is varied (at least 20% of the sward is less than 7 cm and at least 20 per cent is more than 7 cm) creating microclimates which provide opportunities for insects, birds and small mammals to live and breed.	No	N/A	N/A – not targeted	N/A	N/A
C	Cover of bare ground between 1% and 5%, including localised areas, for example, rabbit warrens.	Yes	All	Areas are to be seeded with wildflower seed as above.	Areas are to be seeded with wildflower seed as above.	If the proportion of bare ground is not naturally present, this will be provided through adaptive management. This will include scarifying the ground (or bare ground shall be removed through sowing additional wildflower seed, as required). Additional management, including the removal of leaves from grassland adjacent to trees and hedgerows will be completed between mid-summer and autumn to ensure that flowering species can successfully germinate, and extensive bare ground areas do not form.

D	Cover of bracken <i>Pteridium aquilinum</i> less than 20% and cover of scrub (including bramble) less than 5%.	Yes	All	Bracken and scrub was not identified in the baseline but ground preparation will include manual pulling / digging out of any existing undesirable flora, including removal of any bracken or scrub that may be present at the time of implementation.	No bracken was identified in the baseline surveys so is likely to be absent from the site. Ground preparation will include removal of any bracken or scrub identified, prior to wildflower seeding.	Bracken, and scrub will be kept in check through regular management and spot treatment.
E	Combined cover of species indicative of suboptimal condition and physical damage (such as excessive poaching, damage from machinery use or storage, damaging levels of access, or any other damaging activities) accounts for less than 5% of total area. If any invasive non-native species (as listed on Schedule 9 of WCA) are present, this criterion is automatically failed.	Yes	All	The suggested seed mix used does not contain any species indicative of suboptimal condition and physical damage. Furthermore, ground preparation will include removal of any existing undesirable ground flora and pulling/removal of weeds, bracken, and scrub prior to planting. Any invasive species present, will be eradicated prior to the commencement of any seeding.	The proposed enhancement mix does not contain any species indicative of suboptimal condition and physical damage. Baseline species are to be overseeded and slowly removed / reduced through subsequent management. Any invasive species present will be eradicated prior to the commencement of any seeding.	Any flora indicative of suboptimal condition will be reduced from the baseline through regular management and spot treatment during the establishment phase. The presence of invasive non-native species will be noted and removed as soon as possible. The grassland areas will consider usage of fencing or information signs if physical damage from machine usage, storage, excessive access, or other damaging activities persists. All arisings from mowing will also be removed to avoid nutrient enrichment.
F	There are 10 or more vascular plant species per m ² present, including forbs that are characteristic of the habitat type. Note – this criterion is essential for achieving Good condition for non-acid grassland types only.	No	N/A	N/A – Criteria not targeted. However, management will strive for maximum diversity and may achieve this criterion.	N/A	N/A

Additional Management Prescriptions (GH-B01)

The grassland shall be managed such that it could provide opportunities for various fauna including reptiles, invertebrates, and small mammals. Cutting should be mindful of these species, and a visual inspection should be done to ensure that none of these species are present. Where these species are identified they should be allowed to move away prior to the commencement of any management.

Specific management of the thin strip of grassland creation has not been provided. Due to its limited extent it is expected that the provided management for enhancement of the existing grassland can be applied to the whole area and long-term will achieve the targeted habitat type and condition over the full area.

Other Neutral Grassland

Creation, Enhancement and Management Detailed Methods (GH-T02)

Action	Relevant Parcels	Responsibility and Timing	Prescriptions
Soil preparation – Enhanced and newly created habitat areas	All	This will be completed by the assigned contractor prior to the commencement of laying and sowing. This will be conducted whilst weather conditions are still suitable in early-autumn or mid-spring (i.e. around September or May respectively). This is expected to be completed no later than the end of December 2026.	Any rubbish, metal, glass, and decayed vegetation will be removed from the site. Where appropriate waste materials shall be recycled, such as by using the crusher on site to recycle any waste concrete. If weed growth has developed, then they should be manually pulled or dug out, and herbicide should not be used. Any earth moving works will be carried out while soil and weather conditions are suitable i.e., not during or shortly after rainfall or during high winds. The existing lawn will be vigorously raked to expose areas of bare soil, where the wildflower seed can be sown. Given the presence of existing trees and woodland, mechanical cultivation is not recommended.
Creation / Enhancement – Laying and sowing	All	This will be completed by the assigned contractor. This will be conducted whilst weather conditions are still suitable in early-autumn or mid-spring (ideally in September or April). This is expected to be completed no later than the end of December 2026.	Enough seed should be prepared to cover the area in question, given a sowing rate of 5g per metre squared. In autumn (i.e., August-September) half the seed mix should be broadcast by hand, or by using a broadcast spreader, on to the freshly prepared ground which will already have a little loose soil on the surface 10-20mm deep. The seeds will then be lightly worked into the loose soil using a firm rake or harrow. The remaining half of the seed mix will then be broadcast onto the tilth and worked into the soil in the same way as before. Then the surfaced will be rolled to squeeze the seeds and tilth down into the seedbed. This method ensures the wildflower seeds are evenly spread, set at different depths and in good contact with the soil.
Management – Watering	All	This will be the responsibility of the assigned landscaper, as all planting will be within defects. It will be the responsibility of the landowner to arrange access. Where additional management is required, it will be the responsibility of the landowner to prescribe further visits. This will be completed by the assigned landscaper monthly for the first year. Where dry / hot spells occur, this will be required more often.	Immediately after sowing, the grassland areas should be kept well-watered as most of the sown seed species are perennial and are slow to establish. During the first year it may be necessary to supplement the grassland with additional watering to ensure the young plants do not dry out before fully establishing, in light of any unseasonably hot / dry spells.
Management – Initial growth and weeding	All	This will be the responsibility of the assigned landscaper. It will be the responsibility of the landowner to arrange access. Where additional management is required, it will be the responsibility of the assigned landscaper to prescribe further visits. The assigned landscaper will visit, as a minimum, every two months over the growing season (April to September inclusive) during the first year. Where additional management is required, it will be the responsibility of the assigned landscaper to prescribe further visits.	Most of the sown seed species are perennial and are slow to establish. In the first year, soon after sowing there will be a flush of annual weeds, arising from the soil seed bank. These weeds can look unsightly, but they will offer shelter to the sown seedlings, are beneficial for invertebrates and will die before the year is out. Any perennial weeds, such as docks, thistles, bindweed, rank grasses, nettles and brambles should be spot treated through manual cutting, pulling, or dug out. The use of herbicides and pesticides should be avoided unless other methods prove untenable. Once the annual plants die out and all perennial weeds are removed, the young ground flora will be revealed.

Action	Relevant Parcels	Responsibility and Timing	Prescriptions
Management – Topping	All	This will be the responsibility of the assigned landscaper. It will be the responsibility of the landowner to arrange access. Where additional management is required, it will be the responsibility of the assigned landscaper to prescribe further visits. The assigned landscaper will visit in early March and September during the first year to top the grassland. Management checks will also be completed every month during the growing season (April – September) to identify if extensive weeding or further topping is required.	To manage the growth and reduce the nutrient levels over time it will be necessary to ‘top’ / mow the growth regularly for the first few years, starting in spring. Ideally, once in early March and again in September; the grassland should not be cut between these months to give the plants time to flower and provide opportunities for invertebrates. However, the growth might be particularly vigorous during the first few years, and it may be necessary to cut the grass in April or May. In each instance the grassland should be cut to a height of no less than 7cm. After topping / mowing it is important that any cuttings are removed to prevent nutrients from returning to the soil and to prevent weeds from dropping seed and reestablishing. A closed grassland sward will take time to develop and the right time to ‘top’ or mow will depend on the growth rate of the vegetation and the need to control weeds. Before perennial weeds (e.g., docks, thistles, nettles, bramble etc.) cover greater than 30% of the site area and before they set seed is a suitable time to intervene with topping; this should be done regularly in the first year as and when required. The growth should be topped to a height of 7cm-10cm. If the regrowth is very vigorous it will be necessary to top the site again. This method should be effective for controlling most weeds and rank grasses although any pernicious or problematic weeds, such as ragwort and bramble should be spot treated with manual cutting, pulling, or dug out in early August and the use of herbicides and pesticides should be avoided unless other methods prove untenable. Topping in late June is particularly important for controlling thistles. Should any areas of bare ground develop, these should be reseeded in line with the aforementioned ‘Laying and Sowing’ methodology.
Management – Mowing regime	All	The establishment of the sward is expected to be stable by year 3. It will be the responsibility of the assigned landscaper to monitor and manage this for the first five years. It will be the responsibility of the landowner/ land manager to arrange access. Where additional management is required, it will be the responsibility of the assigned landscaper to prescribe further visits. Once the sward is established the assigned landscaper will visit twice a year to mow the grassland in March and September.	Once a distinct grassland sward has established a low-intensity mowing regime will be initiated. The habitat will receive little management, managed to a height of c. 300mm, and should not require mowing more than twice a year, which should take place in early-spring (March) and early autumn (September). After topping / mowing it is important that any cuttings are removed to prevent nutrients from returning to the soil and to prevent weeds from dropping seed and reestablishing.
Management – Ongoing invasive species monitoring	All	Subsequent checks for invasive species will be completed for the first five years by the appointed landscaper. The ecologist will also be responsible for identifying required remedial measures after monitoring visits. The landowner will be responsible for arranging access and contracting further management visits, through consultation with the landscaper, as required. Spot checks are to be completed by the landowner wherever possible.	The presence of invasive non-native species will be noted, and they will be removed as soon as possible. This should be completed by the appointed landscape contractor in line with the best industry practice guidance for the removal of the invasive species in question. During the monitoring checks the ecologist will check the grassland and identify any undesirable species present which may require subsequent removal. For invasive species this will be done through spot treatment, using pulling where new seedlings are growing. Should seedlings become too large to pull then a foliar spray will be required. A mix of glyphosate (20% solution), triclopyr (8% solution) or ammonium sulphate (40% solution) are known to be effective during suitable weather conditions i.e., dry weather. The herbicide concentrations used, and timings of applications vary according to which chemical is used. Should seedlings reach a mature stage then specialist advice will need to be sought for further removal works.

Grassland (Medium, High, and Very High Distinctiveness) Species Lists (GH-T03)

Common Name	Scientific Name	Abundance / %	Comments
Emorsgate EH1 Hedgerow Mixture			Example seed mix – may use alternative appropriate seed mixture
Grass composition 80%			
Common bent	Agrostis capillaris	2.4	
Crested dog’s-tail	Cynosurus cristatus	48.0	
Sweet vernal-grass	Anthoxanthum odoratum	1.6	
Red fescue	Festuca rubra	19.2	
False brome	Brachypodium sylvaticum	0.8	
Tufted hair-grass	Deschampsia cespitosa	1.6	
Wood meadow-grass	Poa nemoralis	6.4	
Wildflower composition 20%			
Agrimony	Agrimonia eupatoria	0.5	
Garlic mustard	Alliaria petiolata	1.0	
Cow parsley	Anthriscus sylvestris	0.5	
Lesser burdock	Arctium minus	1.0	
Common knapweed	Centaurea nigra	2.0	
Rough chervil	Chaerophyllum temulum	0.4	
Crosswort	Cruciata laevipes	0.8	
Wild carrot	Daucus carota	0.8	
Wild teasel	Dipsacus fullonum	1.5	
Meadowsweet	Filipendula ulmaria	0.4	
Hedge bedstraw	Galium album	1.5	
Wood avens	Geum urbanum	0.4	
Meadow crane’s-bill	Geranium pratense	1.0	
Narrow-leaved everlasting-pea	Lathyrus sylvestris	1.0	

Common Name	Scientific Name	Abundance / %	Comments
Oxeye daisy	<i>Leucanthemum vulgare</i>	1.2	
Musk mallow	<i>Malva moschata</i>	1.0	
Wild marjoram	<i>Origanum vulgare</i>	0.3	
Ribwort plantain	<i>Plantago lanceolata</i>	0.8	
Cowslip	<i>Primula veris</i>	0.6	
Common sorrel	<i>Rumex acetosa</i>	0.4	
Red campion	<i>Silene dioica</i>	2.0	
Bladder campion	<i>Silene vulgaris</i>	0.8	
Tufted vetch	<i>Vicia cracca</i>	0.8	

Mixed Scrub

Creation and Management Summary (SC-T01)

Target Habitat: Mixed Scrub		Mixed Scrub of Moderate condition			
Condition Assessment Criteria		Targeted	Relevant Parcels	Creation approach	Management Approach
A	The parcel represents a good example of its habitat type – the appearance and composition of the vegetation closely matches its UKHab description (where in its natural range). - At least 80% of scrub is native, - There are at least three native woody species, - No single species comprising more than 75% of the cover (except hazel <i>Corylus avellana</i>, common juniper <i>Juniperus communis</i>, sea buckthorn <i>Hippophae rhamnoides</i> or box <i>Buxus sempervirens</i>, which can be up to 100% cover).	Yes	All	This condition will be achieved through the provision of species-rich native shrub planting, of local provenance wherever possible. Details of seven proposed native species are included below.	Management will include pruning, cutting back or even removal of shrubs, to ensure that no species becomes dominant within the scrub area. Additionally, supplementary shrub planting will be undertaken if plant failure reaches 10%. Presence of any invasive non-native species will be noted and immediately removed wherever possible. Monitoring visits will report the presence of any such species, if they are not initially identified.
B	Seedlings, saplings, young shrubs and mature (or ancient or veteran) shrubs are all present.	No	N/A	N/A	N/A
C	There is an absence of invasive non-native species (as listed on Schedule 9 of WCA) and species indicative of suboptimal condition make up less than 5% of ground cover.	Yes	All	Ground preparation will include removal of any existing undesirable ground flora and pulling/removal of weeds, bracken, and scrub prior to planting. Any invasive species present, will be eradicated prior to the commencement of any planting.	Presence of any invasive non-native species will be noted and immediately removed wherever possible. Monitoring visits will report the presence of any such species, where they are not readily identified.
D	The scrub has a well-developed edge with scattered scrub and tall grassland and or forbs present between the scrub and adjacent habitat.	No	N/A	N/A	N/A
E	There are clearings, glades or rides present within the scrub, providing sheltered edges.	Yes	All	Initial planting will aim to achieve a dense scrub with future management achieving this criterion once the habitat is established.	It is expected that the steepness of the bank will not allow for scrub to cover the entire area. Ongoing management will seek to prune back scrub to create small, sheltered clearings and edges.

Additional Management Prescriptions (SC-B01)

A ground layer will be allowed to form, which may include typical ‘nuisance’ plants such as weeds. These will be allowed to grow within the scrub and will not be removed, in order to allow opportunities for wildlife.

Management of shrubs should be undertaken outside of the bird nesting season (i.e., avoiding March to September inclusive) and ideally in January / early February, to give wildlife the opportunity to benefit from winter fruits. All birds and their nests are protected under the *Wildlife and Countryside Act* (1981) and management should be mindful of trying to avoid disturbing these species. If removal of shrubs, trees, or tree pruning works are ever required inside the main bird nesting season, the vegetation should first be subject to a bird nesting check by a suitably qualified ecologist, no longer than 24 hours prior to removal, to ensure that active nests are absent, or to set up an exclusion zone around the nest inside which no works should take place until the birds have fledged.

Mixed Scrub

Creation, and Management Detailed Methods (SC-T02)

Action	Relevant parcels	Responsibility and Timing	Prescriptions
Creation – Soil preparation	All	This will be completed by the assigned landscaper whilst weather conditions are still suitable in mid-autumn or early-spring (i.e. before November or before April respectively). This is expected to be completed no later than the end of December 2026.	Any rubbish, metal, glass, and decayed vegetation will be removed from the site. Where appropriate waste materials shall be recycled, such as by using the crusher on site to recycle any waste concrete. If weed growth has developed, then they should be manually pulled or dug out, and herbicide should not be used. Any earth moving works will be carried out while soil and weather conditions are suitable i.e., not during or shortly after rainfall or during high winds. Where existing topsoil and subsoil are to be moved and re-used, the topsoil and subsoil will be kept separate, tested, and deposited in the same profile as the existing ground. A weed and vegetation free substrate will be prepared through a phased clearance, avoiding the use of vehicles and plant wherever possible. Mechanical / physical cultivation and the use of herbicides and pesticides should be avoided. The lightest machine practicable to complete the job should be used in order to limit the adverse impacts of soil compaction. The soil will be lightly cultivated to produce a 'breadcrumb' like texture with a medium tilth, and any large stones / other debris shall be removed. Cultivation close to established trees and shrubs will be avoided as this can cause damage to their root systems.
Creation – Planting methodology and specification	All	This will be completed by the assigned landscaper. This will be conducted whilst weather conditions are still suitable in mid-autumn or early-spring (ideally in November or March).	Planting pits shall be excavated to a depth and size that contains the shrubs root system and allows the collar of the plant (<i>the mark on the shrub where it has been growing above ground</i>) to be level with the top of the soil. Shrubs of local provenance will be secured for planting, wherever possible. The shrub will be planted during the planting season (November-March inclusive) and only when the soil is free from frost and waterlogging. The soil shall be carefully backfilled in layers, ensuring the plant is held upright, and each layer should be carefully firmed down. The pit will be supplemented with a generous amount of mulch to limit weed growth at the base and insulate the roots.
Management – Watering	All	This will be the responsibility of the assigned landscaper, as all planting will be within defects. It will be the responsibility of the landowner to arrange access. Where additional management is required, it will be the responsibility of the landowner to prescribe further visits. This will be completed by the assigned landscaper monthly for the first year. Where dry / hot spells occur, this will be required more often.	The whips will be watered immediately after planting. They will be watered regularly for the first 6 months to ensure they establish. Thereafter it would only be necessary to water during exceptionally dry / hot spells for the first five years.
Management – Shelter, stake and tie checking and removal	All	It will be the responsibility of the assigned landscaper to identify the need for stakes, guards, and ties to be removed.	The stakes, mesh guard and ties shall be checked regularly for the first few years and adjusted as necessary to ensure no damage is caused or the ties restrict growth. When the shrubs are well established and large enough such that trampling / browsing could not conceivably be an issue then the stakes, guards and ties shall be removed (expected to be c. 5 years from planting).

Action	Relevant parcels	Responsibility and Timing	Prescriptions
Management – Pruning/strimming	All	This will be the responsibility of the assigned landscaper for the first five years. It will be the responsibility of the landowner to arrange access. Thereafter, it will be the responsibility of the landowner to appoint further contractors to manage the scrub, as required. Pruning will be completed once a year in January once it has established, and at additional points, if required.	Ongoing management should focus on pruning or strimming back the scrub once a year in January to manage the previous year’s growth. Pruning / strimming should aim to trim the edges of the habitat if undesirable growth into other areas is occurring. Further to this, when the shrubs have established, (likely in year 5) some area(s) should be strimmed to the ground to create small, sheltered clearings. Clearings should not occupy more than 10% of the Mixed Scrub area. Any saplings that are identified within the scrub will be allowed to grow and will not be uprooted. Should any one species begin to dominate the scrub then further selective thinning may be required to ensure a more even balance. This could include pruning and strimming. During the monitoring checks the ecologist will review the age ranges of shrubs present, alongside identifying an approximate percentage cover of each species, and will recommend remedial measures, should they be required.
Management – Ongoing invasive species monitoring	All	Checks will be completed for the first five years by the appointed landscaper. They will be responsible (with comment by the ecologist where required) for identifying required remedial measures and the landowner will be responsible for arranging access and appointing further management visits as required. Spot checks are to be completed by the landowner wherever possible.	The presence of invasive non-native species will be noted and will be removed as soon as possible. This should be completed by the appointed landscaper in line with the best industry practice guidance for the removal of the invasive species in question. During the monitoring checks the ecologist will check the scrub and identify any undesirable species present that have not been removed and which may require subsequent removal. This will be done through spot treatment, using pulling where new seedlings are growing. Should seedlings become too large to pull then a foliar spray will be required. A mix of glyphosate (20% solution), tryclopyr (8% solution) or ammonium sulphate (40% solution) are known to be effective during suitable weather conditions i.e., dry weather. The herbicide concentrations used, and timings of applications vary according to which chemical is used. Should seedlings reach this mature stage then specialist advice will need to be sought for further removal works. Alternatively, invasive species removal may be assigned to a suitably qualified specialist contractor.

Scrub Species Lists (SC-T03)

Common Name	Scientific Name	Abundance / %	Comments
Dogwood	<i>Cornus sanguinea</i>	1/m ²	
Hazel	<i>Corylus avellana</i>	1/m ²	
Hawthorn	<i>Crataegus monogyna</i>	1/m ²	
Elder	<i>Sambucus nigra</i>	1/m ²	
Dog rose	<i>Rosa canina</i>	1/m ²	
Blackthorn	<i>Prunus spinosa</i>	1/m ²	
Common honeysuckle	<i>Lonicera periclymenum</i>	1/m ²	

Individual Trees

Creation, Enhancement and Management Summary (UT-T01)

Target Habitat:			Individual Trees of Moderate condition		
Condition Assessment Criteria		Targeted	Relevant Features	Creation Approach	Management Approach
A	The tree is a native species (or more than 70% within the block are native species).	Yes	All	All individual trees proposed will be native species.	N/A
B	The tree canopy is predominantly continuous, with gaps in canopy cover making up <10% of total area and no individual gap being >5 m wide (individual trees automatically pass this criterion).	Yes	All	Trees planted will be planted individually so automatically pass.	The trees will not be pruned wherever possible, allowing them to grow and create continuous canopies naturally. As trees are planted individually this criterion is automatically passed.
C	The tree is mature (or more than 50% within the block are mature).	No	N/A	N/A – cannot be targeted for new trees.	N/A
D	There is little or no evidence of an adverse impact on tree health by human activities (such as vandalism, herbicide or detrimental agricultural activity). And there is no current regular pruning regime, so the trees retain >75% of expected canopy for their age range and height.	Yes	New trees south of the convent	Herbicide will be avoided when preparing soil for tree planting.	Trees will be left with minimal management to avoid adverse impacts on health from pruning. Management will target facilitating the maturation of newly planted trees and only prescribe pruning where there are risks associated with maintaining longevity or safety (e.g. disease, pests, and damaged or failing trees).
D	There is little or no evidence of an adverse impact on tree health by human activities (such as vandalism, herbicide or detrimental agricultural activity). And there is no current regular pruning regime, so the trees retain >75% of expected canopy for their age range and height.	No	New trees north of the convent	N/A	The placement of these trees means that regular pruning will likely be required.
E	Natural ecological niches for vertebrates and invertebrates are present, such as presence of deadwood, cavities, ivy or loose bark.	No	N/A	N/A – cannot be targeted for new trees.	Ongoing management of existing trees will seek to retain ecological niches within trees wherever possible.
F	More than 20% of the tree canopy area is oversailing vegetation beneath.	Yes	All	All trees are to be planted in vegetated areas, including within grassland, and ornamental planting areas.	Management of surrounding vegetation will be minimal, and all trees will be left with room to grow.

Additional Management Prescriptions (UT-B01)

A selection of native tree species have been chosen to maximise the variety of opportunities for wildlife. Management is not prescribed to the baseline trees unless there are concerns over damaged, failing, or diseased trees that are associated with safety risks. Where this is necessary a professional tree surgeon should be contacted alongside the ecologist. If remedial action is necessary to be taken in the bird nesting season (March – September inclusive), then a visual inspection for nesting birds should be undertaken prior to commencement of any works. All birds and their nests are protected under the *Wildlife and Countryside Act* (1981) and so management should be mindful of trying to avoid disturbing and destroying the nests of these species.

Individual Trees

Creation, Enhancement and Management Detailed Methods (UT-T02)

Action	Relevant Features	Timing	Prescriptions
Soil preparation – Newly created planting areas without clean cover system	All	This will be completed by the assigned contractor prior to tree planting. This will be conducted whilst weather conditions are still suitable in mid-autumn or early-spring (i.e. before November or before April respectively). This is expected to be completed no later than the end of December 2026.	Any rubbish, metal, glass, and decayed vegetation will be removed from the site. Where appropriate waste materials shall be recycled, such as by using the crusher on site to recycle any waste concrete. If weed growth has developed, then they should be manually pulled or dug out, and herbicide should not be used. Any earth moving works will be carried out while soil and weather conditions are suitable i.e., not during or shortly after rainfall or during high winds. Where existing topsoil and subsoil are to be moved and re-used, the topsoil and subsoil will be kept separate, tested, and deposited in the same profile as the existing ground. A weed and vegetation free substrate will be prepared through a phased clearance, avoiding the use of vehicles and plant wherever possible. Mechanical / physical cultivation and the use of herbicides and pesticides should be avoided. The lightest machine practicable to complete the job should be used in order to limit the adverse impacts of soil compaction. The soil will be lightly cultivated to produce a ‘breadcrumb’ like texture with a medium tilth, and any large stones / other debris shall be removed. Cultivation close to established trees and shrubs will be avoided as this can cause damage to their root systems.
Creation – Tree planting	All	This will be completed by the assigned contractor. This will be conducted whilst weather conditions are still suitable in mid-autumn or early-spring (ideally in November or March). This is expected to be completed no later than the end of December 2026.	Planting pits shall be excavated to a depth and size that contains the shrubs root system and allows the collar of the plant (<i>the mark on the tree or shrub where it has been growing above ground</i>) to be level with the top of the soil. Any major existing tree or shrub roots found within the pits shall not be severed. During excavation, the soil should be separated into topsoil and subsoil in order that during backfilling the soil can be replaced in the same order. Tree stock of local provenance will be secured for planting, wherever possible. The trees will be planted during the planting season (November-March inclusive) and only when the soil is free from frost and waterlogging. Where required, backfilling material shall be the site excavated topsoil combined with an organic compost planting medium, and soil improver. The organic compost shall be thoroughly mixed into the backfill or cultivated material at a rate of 1 no. part planting medium to 3 no. parts existing site topsoil. Tree staking is to be long double staking with stakes driven vertically to a minimum of 300mm into bottom of pit before planting. Backfilling should seek to consolidate material around stakes. Long stakes shall extend above ground level to a maximum 600mm. The tree shall be tied firmly but not rigidly to the stakes with adjustable ties, ties secured in place with a 25 mm long galvanized clout nail. All remaining weeds will then be cleared, and the soil watered thoroughly. Finally, all tree pits will be mulched to an even depth of 75 mm after settlement.
Management – Watering	All	This will be the responsibility of the assigned landscaper, as all planting will be within defects. It will be the responsibility of the landowner to arrange access. Where additional management is required, it will be the responsibility of the landowner to prescribe further visits. This will be completed by the assigned landscaper monthly for the first and second summer. Where dry / hot spells occur, this will be required more often.	Newly planted trees should be watered regularly for the first and second summers from May to September to encourage establishment. Thereafter it will only be necessary to water during excessively hot / dry spells.

Action	Relevant Features	Timing	Prescriptions
Management – Shelter, stake and tie checking and removal	All	It will be the responsibility of the assigned landscaper to identify the need for stakes to be removed.	The stakes, mesh guard and ties shall be checked regularly for the first few years and adjusted as necessary to ensure no damage is caused or the ties restrict growth. When the tree is well established and large enough such that trampling / browsing could not conceivably be an issue then the stakes, guards and ties shall be removed. This should be determined by the assigned landscaper and is expected to be c. 5-10 years from planting.
Management – Ongoing tree management	All	It will be the responsibility of the landowner to ensure that no adverse impacts on the trees' health are caused by their actions. It will be the responsibility of the ecologist to identify detrimental activities and prescribe required further management in the first five years. After this time, it will be the responsibility of the land manager to identify if tree management may be required. Should urgent management be necessary then a professional tree surgeon must be contacted to complete necessary work. Spot checks of the trees for safety risks should be undertaken every five years by the land manager, at a minimum.	Any land underneath the crown of the trees should be left alone and not used for storage, paving etc. The ecologist will assess the condition and health of trees throughout the monitoring period and provide any recommendations for management should this be required. Should any tree management be required (e.g. owing to safety concerns) then a professional tree surgeon should be contacted to complete the necessary work. Any tree removal required (e.g. owing to safety concerns) must be replaced like-for-like with new tree planting as close to the location of the lost tree. If diseased trees are removed, new planting will be located c. 1m to the side of the original location to avoid the spread of disease. Additional management, including the removal of leaves from grassland beneath trees will be completed between mid-summer and autumn to ensure that flowering species can successfully germinate, and extensive bare ground areas do not form.

Individual Trees Species Lists (UT-T03)

Common Name	Scientific Name	Abundance / %	Comments
Field maple	<i>Acer campestre</i>	TBC	
Crab apple	<i>Malus sylvestris</i>	TBC	
Bird cherry	<i>Prunus padus</i>	TBC	
Rowan	<i>Sorbus aucuparia</i>	TBC	

Habitat Creation and Management – Risk Register and Remedial Measures PM-T02

Habitat Type	Risk Factor	Trigger for Action	Remedial Measure
Other neutral grassland	Wildflower grassland fails to establish.	Percentage cover of grasses in growing season (April to September inclusive) exceeds 75% after year 5.	The selected wildflower mix has been tailored to the underlying geology of the site. Management of grassland to include watering, removal of perennial weeds, adaptive management, and topping in growing season during first two years after seeding. Monitoring visits will identify species composition and cover. Recommendations will be made on adaptive management and whether scarification of the ground is required. Should the grassland continue to fail, then alternative wildflower mixes will be considered.
Other neutral grassland	Overshading causes excessive bare ground.	Bare ground within grassland exceeds 3% in growing season after year 5.	The selected wildflower mix has been tailored to the underlying geology of the site. Ongoing management of the grassland includes removal of leaves and a low intensity mowing regime. Should excessive amounts of bare ground be present then the areas will be scarified and reseeded with the wildflower mix. Monitoring visits will estimate cover of bare ground and make recommendations for reseeded when appropriate. Should adaptive management and reseeded fail to reduce amount of bare ground then a different wildflower mix shall be considered.
Other neutral grassland	Overshading or edge effect reduces species diversity of grassland.	Species diversity per m ² is lower than 10 species after year 3.	Management of grassland includes removal of leaves and mowing regime. Ground to be scarified and reseeded with additional diverse seed mixture if required. Selective pruning of adjacent trees to be implemented if required. This should be kept to a minimum so as to allow tree canopy cover to achieve the expected range and height for its age. If the sward continues to lose diversity, then a different wildflower mix will be considered such as <i>Emorsgate EH1 Hedgerow Mixture</i> .
Other neutral grassland	Bracken encroaches and dominates grassland.	Bracken cover within grassland exceeds 5% in growing season.	Soil preparation includes clearance of all existing vegetation and cultivation prior to planting. Areas will be seeded immediately after cultivation to ensure that they can grow. Monitoring visits will identify ground cover of bracken and advise on if spot treatment is required through cutting and topping.
Other neutral grassland	Scrub encroaches on neutral grassland.	Scrub cover exceeds 5% cover in growing season.	Soil preparation includes clearance of all existing vegetation and cultivation prior to planting. Areas will be seeded immediately after cultivation to ensure that they can grow. Monitoring visits will identify percentage ground cover of scrub and advise on if spot treatment is required through cutting and topping.
Other neutral grassland	Inappropriate usage of meadow for amenity or baseline species outcompeting wildflowers results in transition to a modified grassland.	Combined cover of species indicative of suboptimal condition / physical damage accounts for more than 5% of total area in growing season after year 2.	Access to some areas of grassland will be reduced by using a low-level fence to provide a barrier. This will dissuade usage of the area for storage, excessive mowing, amenity use and incidental damage. Monitoring visits will identify percentage ground cover of species indicative of suboptimal condition / physical damage and prescribe adaptive management. Where required areas will be scarified and reseeded. Should the grassland continue to fail, then alternative custom wildflower mixes will be considered.
Mixed scrub	Newly planted shrubs fail to establish.	Greater than 10% of newly planted shrubs found to be dead during years 1-10.	A greater number of shrubs will be planted than required to account for some failures. Should significant failures occur then a second round of planting will be undertaken, replacing failed specimens on a like-for-like basis as required. Failure to be identified within the landscaper's monitoring visits and by the ecologist within years 1 and 3.

Habitat Type	Risk Factor	Trigger for Action	Remedial Measure
Mixed scrub	Single species dominates shrub layer.	Percentage cover of a single scrub species exceeds 50%.	Scrub species have been selected for their native origin and natural occurrence within surrounding landscape. Species which grow faster or respond to coppicing (such as hazel) are to be planted with lower frequency and are to be separated from other plants of same species. Selective pruning will reduce cover of other dominating species (not hazel). Dominance of shrubs will be identified in monitoring visits and will advise on if pulling and removal of plants is required.
Individual Trees	Newly planted trees fail to establish.	Any number of newly planted trees found to be dead during years 1-10.	Trees stock to be heavy standard as a minimum and regularly watered throughout establishment period. Should any failures occur then a second round of planting will be undertaken, replacing failed specimens on a like-for-like basis as required.
Individual Trees	A planted tree becomes a safety risk and requires removal / major works.	Any number of newly planted trees required to be removed during years 1-10.	Where trees become a safety risk a professional tree surgeon will be consulted and will aim for pruning over removal.
Individual Trees	Trees become diseased and begin to fail.	Newly planted or retained trees identified to be failing.	Where tree health becomes a concern a professional tree surgeon will be consulted and will advise on whether removal is required. Deadwood from felled diseased trees will be removed from the site to be disposed of and will not be used for log piles on site.
All	Invasive species presence.	Presence of any invasive species are noted during monitoring visits.	A prescribed invasive species removal plan will be produced, in line with best practice guidance and tailored advice from an invasive species specialist. The presence of invasive non-native species regrowth will be noted and will be removed as soon as possible. This should be done by hand in the first instance. During the monitoring checks the ecologist will also check the grassland, and scrub to identify any undesirable species present which may also require subsequent removal.

3. Monitoring Schedule

Monitoring Strategy

Provide details of the monitoring strategy to encourage successful implementation of the management plan (MS-B01)
The assigned landscaper will undertake initial monitoring when providing ongoing management of the proposed habitats. This will include conducting the predefined management measures outlined herein. The ecologist will be responsible for identifying any habitat failures, loss of habitat areas and identifying adaptive prescriptions that may be required to ensure the successful development of each habitat type. The ecologist shall also advise of any additional measures implemented or required so that it can be included in their own monitoring review. The landowner/s will also be responsible for arranging access to the assigned landscaper and ecologist within the required timeframe. The ecological monitoring strategy will include visits undertaken by the ecologist annually in year 0 (est. 2026), year 1 (est. 2027), year 3 (est. 2028) and year 5 (est. 2030) to ensure the successful planting and establishment of the proposed habitats. In year zero this will be undertaken within several weeks of all planting, and landscaping taking place. For the subsequent surveys these will be preferentially conducted in May, or, if access cannot be arranged at this time, then it will be conducted at another point in the peak growing season (May-August). It is intended that all management and monitoring prescriptions provided in this document will commence following completion of the development, that year in which the development is complete shall be taken as year 0. After this time monitoring visits will be conducted every 3-5 years to provide the landowner/s with adaptive management prescriptions which may be required for the habitats to reach the targeted distinctiveness and condition. These checks will be undertaken in years 5, 7, 10, 15, 20, and 30 (est. 2031, 2033, 2036, 2041, 2046, and 2056 respectively). These will be preferentially conducted in May, or, if access cannot be arranged, between May-August. The final check will be to ensure all habitats have met their target condition at the end of the 30 years. The monitoring visits will include an assessment of the habitat types present on-site in line with current best practice guidance (UKHabs, 2023). This will include taking before-and-after photos from prespecified locations, to be determined in year zero after planting has been completed. The ecologist will then score the conditions of each habitat according with current condition assessment criteria guidance (DEFRA, 2024), and provide species lists with DAFOR scale or percentage cover estimates, as required for each condition. A review of the progress and change of each habitat area, or individual tree will then be estimated from previous reports. At this time, any remedial measures which could be implemented in further management will be identified. Following the monitoring visit the suitably qualified ecologist will provide a short report in line with the Natural England Habitat Management and Monitoring Plan template framework, to the landowner/s summarising the results of the survey and highlighting any recommendations to ensure the habitats achieve the distinctiveness and condition targeted in the Biodiversity Net Gain Assessment and outlined herein. It would then be the responsibility of the landowners to provide a copy of this report to the Local Planning Authority to review who would then be responsible for enforcing further actions.

Monitoring Methods and Intervals MS-T01

Habitat Type	Monitoring Methods	Monitoring Interval and Timing
Other neutral grassland	Routine monitoring for establishing grassland to be undertaken by the assigned landscaper. If grassland is failing, or is becoming dominated by enriched grassland species, bracken, or scrub, this will be reported to the ecologist and adaptive management measures may be prescribed as per the remedial risk measures (% cover of these groups), or it shall be picked up during the ecologists monitoring visits. Ecological monitoring will be undertaken on grassland parcels by a suitably qualified ecologist during establishment period. They will undertake quadrat sampling to identify the habitat type that is establishing and then number of species per m². They will then estimate % cover of bare ground, bramble, and bracken cover. Lastly, they will accumulate a botanical species list across the grassland to check against the target species list. This will be used to confirm presence / absence of planted species, non-native invasive species, and those indicative of sub-optimal condition.	Ad hoc failure and management checks to be completed monthly by the assigned landscaper for the first six months after seeding, as part of their routine watering schedule, to be reported to the ecologist if problematic. Additional management checks to be undertaken as part of the routine mowing, in March and September, for the first five years, by the appointed landscape contractor. Ecological monitoring checks as per above monitoring strategy.
Mixed scrub	Routine monitoring for failed shrubs will be undertaken by the assigned landscaper. Where shrubs have died and failed, they should be reported to the ecologist. Additional planting will be prescribed, as per the remedial risk measures. Ecological monitoring will also be undertaken on the mixed scrub by a professionally qualified ecologist during establishment period. They will identify the species present and estimate percentage cover of each to identify the habitat type establishing. They will collect a botanical species list across it to confirm absence of non-native and invasive species.	The assigned landscaper will complete failure and management checks monthly for the first six months after planting, as part of their routine watering schedule. Checks will be completed in accordance with the above monitoring strategy. Surveys to be completed preferentially in May. If access cannot be arranged at this time, then it will be conducted at another point in the peak growing season (May-August).
Individual trees	Routine monitoring for failed saplings will be undertaken by the assigned landscaper. Where saplings have died and failed, they should be reported to the ecologist. Additional planting will be prescribed on a like-for-like basis, as per the remedial risk measures. Ecological monitoring will also be undertaken on planted saplings by a professionally qualified ecologist during the establishment period. The ecologist will identify if any vandalism, herbicide, or pruning has taken place on the tree. Lastly, they will identify the % of the tree canopy above vegetation.	The assigned landscaper will complete failure and management checks monthly for the first year, as part of their routine watering schedule. Ecological monitoring checks as per above schedule.

Monitoring Reports

Monitoring Report Schedule MS-T02

Organisation Responsible for Submitting the Monitoring Reports	Organisation Receiving and Responsible for Reviewing Reports
Y0-5 – Lizard Landscape Design Ltd.	Landowner/s and Gravesham Borough Council
Y5+ – Professionally qualified ecologist assigned by the landowner/s	Landowner/s and Gravesham Borough Council

Project Year	Month Report to be Submitted	Month Management Plan to be reviewed	Comments
Y0 Est. 2026	N/A – on completion	N/A -	Confirm creation of new Other Neutral Grassland, creation of new Mixed Scrub, and planting of new Trees. Confirm if any invasive species control was required. Collect baseline photos from specified locations, to be determined in this visit.
Y1 Est. 2027	May No later than (NLT) September if access cannot be arranged	July NLT October	Report on results of initial habitat creation and enhancement including all Other Neutral Grassland, Mixed Scrub and Urban Trees. Ensure any planting failures have been replaced. Advise on if any adaptive measures should be undertaken, particularly in relation to the grassland. Confirm presence/ absence of invasive species on-site, and identify any locations needing treatment, if applicable. Photographs taken by the ecologist, landscaper, landowner/s and land manager are to be included in the reports submitted to the LPA. The landowner/s should advise the LPA of changes to the ecologist or assigned landscaper as well as changes in ownership or land manager if required.
Y3 Est. 2029	May NLT September	July NLT October	Confirm successful establishment of habitats including all Other Neutral Grassland, Mixed Scrub and Urban Trees. Ensure any planting failures have been replaced. Advise on if any further adaptive measures were taken. Review success of previous management, and whether further measurements are required. Confirm presence/ absence of invasive species on-site, and identify any locations needing treatment, if applicable. Confirm that the Other Neutral Grassland and Mixed Scrub creation and enhancement are on-track to meet Moderate condition within the desired timeframe and advise on if further planting is required. Photographs taken by the ecologist, landscaper, landowner/s and land manager are be included in the reports submitted to the LPA. The landowner/s should advise the LPA of changes to the ecologist or assigned landscaper as well as changes in ownership or land manager if required.
Y5 Est. 2031	May NLT September	July NLT October	Confirm habitat retention and assess habitats present on-site, and what conditions are being met. Compare habitats to previous years photographs, composition, and percentage cover to identify trends. Review success of previous management, and whether further measurements are required. Confirm presence/ absence of invasive species on-site, and identify any locations needing treatment, if applicable. Confirm that the Other Neutral Grassland and Mixed Scrub have achieved Moderate condition. Review the HMMP and confirm if the management plan is still appropriate, and identify further measures required to implement habitats over next five years. In order to revise the HMMP formal approval must be provided by the LPA. Confirm responsibilities with the landowner in appointing new management and monitoring for this timeframe. Photographs taken by the ecologist, landscaper, landowner/s and land manager are be included in the reports submitted to the LPA. The landowner/s should advise the LPA of changes to the ecologist or assigned landscaper as well as changes in ownership or land manager if required.

Adaptive Management

Summary of Adaptive Management Approaches (MS-B02)
Regular robust monitoring is set out above, with regular visits to be completed by the landscaper whilst new habitats are still in defects. The landscaper will be made aware of all remedial measures outlined herein and will advise on the ecologist on if they are undertaking such actions, or if any additional minor remedial actions are required. They will also advise on the schedule and date of their visits, including where they have prescribed additional monitoring. Ecological monitoring visits are proposed bi-annually in this time to identify if any major intervention is required, including if the adaptive management prescriptions set out above are required. Further long-term monitoring from the ecologist is set out to confirm appropriate habitat management has continued, ensure retention of all features, and identify if gradual declines in condition criteria are occurring or require intervention. The ecologist will then set out further adaptive management to ensure that the habitats achieve or maintain their target condition for the duration of the 30+ year monitoring period. For the Other Neutral Grassland parcel, the landscaper will monitor the presence of invasive species, bracken and scrub, and then undertake corrective action as specified in the remedial risk measures above. Adaptive management of wildflower grassland has not been overly prescriptive, as grassland development can be unpredictable. Once the grassland sward has established, the botanical diversity should improve over time with appropriate management (using low mowing intensity with cut and collect methods). However, some additional adaptive prescriptions the ecologist can consider will focus on whether grasses or high-nutrient forbs begin to dominate, if forb diversity is lost from the sward, and whether thatch accumulations appear. If grass growth is too vigorous yellow rattle can be sown, which is a hemi-parasite that helps to reduce the vigour of grasses. Harrowing can also be considered if thatch accumulations appear at the base of the sward, to help to create gaps for seed germination. If soil species indicative of enrichment continues to dominate the sward, then additional wildflower seeding may be required appropriate for the geology. If this continues to fail, alternative seed mixes will be considered, or soil nutrient level sampling and subsequent nutrient stripping of the sward through a more regular mowing regime, or subsoil mixing could also be considered. Adaptive management undertaken by the landscaper for the Mixed Scrub, and Urban Trees should be very minimal after the establishment phase. This is because the targeted criteria require minimal intervention to achieve after successful establishment. Key remedial measures are set out above, but in summary additional prescriptions will require the landscaper to focus on replacing failed saplings and whips, provide additional watering in dry periods, and adjust pruning to promote growth, where required. For the scrub ecological monitoring will look at the dominance of individual shrub species or presence of invasive species where they will determine if it is necessary to prescribe adaptive species removal. Adaptive management such as selective strimming or pulling could be required to protect species from being lost from the habitats through overshadowing. For all trees and young shrubs, the ecologist will be looking for signs of disease or stress, and whether inappropriate land usage has affected growth and needs to be addressed / halted through communication with the landowner.