

“The BID are committed to improving green infrastructure across Manor Royal and will work closely with our partners to deliver the vision & the strategic aims within this GI Framework.”

Manor Royal BID.



SECTION 4 - HOW TO DELIVER THIS GI FRAMEWORK

FOR THE BENEFIT OF CURRENT & FUTURE GENERATIONS

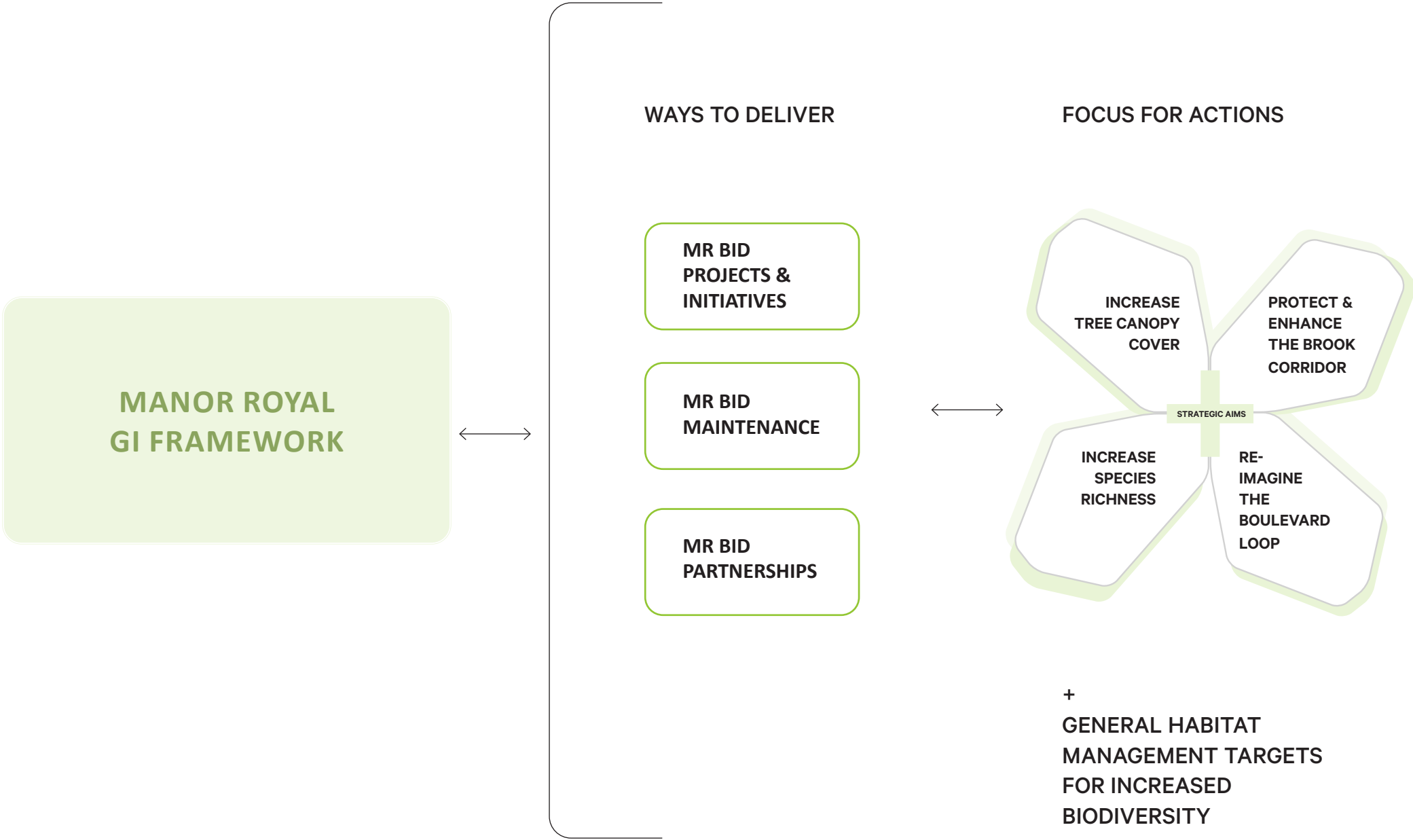
This Section provides an Action Plan tied back to the GI Framework strategic aims and the opportunities highlighted in section 3.

The Action Plans are intended to provide flexibility in the order or consolidation in delivery. Some of the actions overlap and provide multiple benefits, others are specific isolated tasks.

Ahead of Action Plans, this section provides a summary of the inter-relationship between this GI Framework and the Projects Pack; highlights where the dedicated Manor Royal Maintenance Team can help improve habitats for the benefits of biodiversity; and summarise key partners required to help deliver the Action Plan.

Land ownership mapping shows the overlap between CBC or WSCC land in relation to the GI assets and opportunities.

Funding opportunities and recommendations on next steps have also been provided.



BID PROJECTS & INITIATIVES

Manor Royal’s Projects Pack 2023-2028 provides a prospectus of targeted projects and recommended changes in the management and maintenance regimes.

The signature and hotspot projects have been assessed against BNG & UGF potential, the Strategic Aims and additional Ecosystem Services (air pollution, noise pollution, flood management and access to nature). A summary table can be found in the appendix.

The assessment confirms that by delivering the Projects Pack it will improve GI across Manor Royal and help to deliver the vision and strategic aims within this GI Framework.

The analysis also indicates that those projects that fall within the Boulevard Loop have the potential to deliver multiple aims and help address air and noise pollution. Complimenting this, are those projects that fall within areas of woodland, as these provide best opportunities for improved flood management.

The Project Pack 2023-2028 is a strategic document outlining the key projects, goals, and initiatives planned for five years to enhance the area’s business environment.

The Projects Pack is used by the BID to help plan investment as well as attract investment from others. It also means the BID is ready and able to respond and lobby in an articulate way for funding to make the place better.

Several projects have already been delivered or are planned to be delivered by 2028. This includes improvements to the public realm and gateways throughout Manor Royal.

In response to the BIDs latest business plan and the new objective “sustain and renew”, the Projects Pack 2023-2028 includes a greater emphasis on how to support nature and wildlife and become a more sustainable place taking account of the projects the BID deliver.

Utilising this GI Framework and dovetailing the Strategic Aims and actions into the development and detail of each project from the Projects Pack will ultimately help deliver both.

It may also be prudent to target forthcoming projects from the Projects Pack to align with the highest potential to enhance GI, increase BNG / UGF and improve Ecosystem Services.

Complimenting all of this, recognition of the importance and the benefits of GI can continue to be fulfilled through entering projects into local and national awards and recognising local individuals and businesses for their contribution to improving the environment and championing green initiatives..

Headlines include:

ALL SIGNATURE & HOTSPOT PROJECTS HAVE THE POTENTIAL TO ‘INCREASE SPECIES RICHNESS’

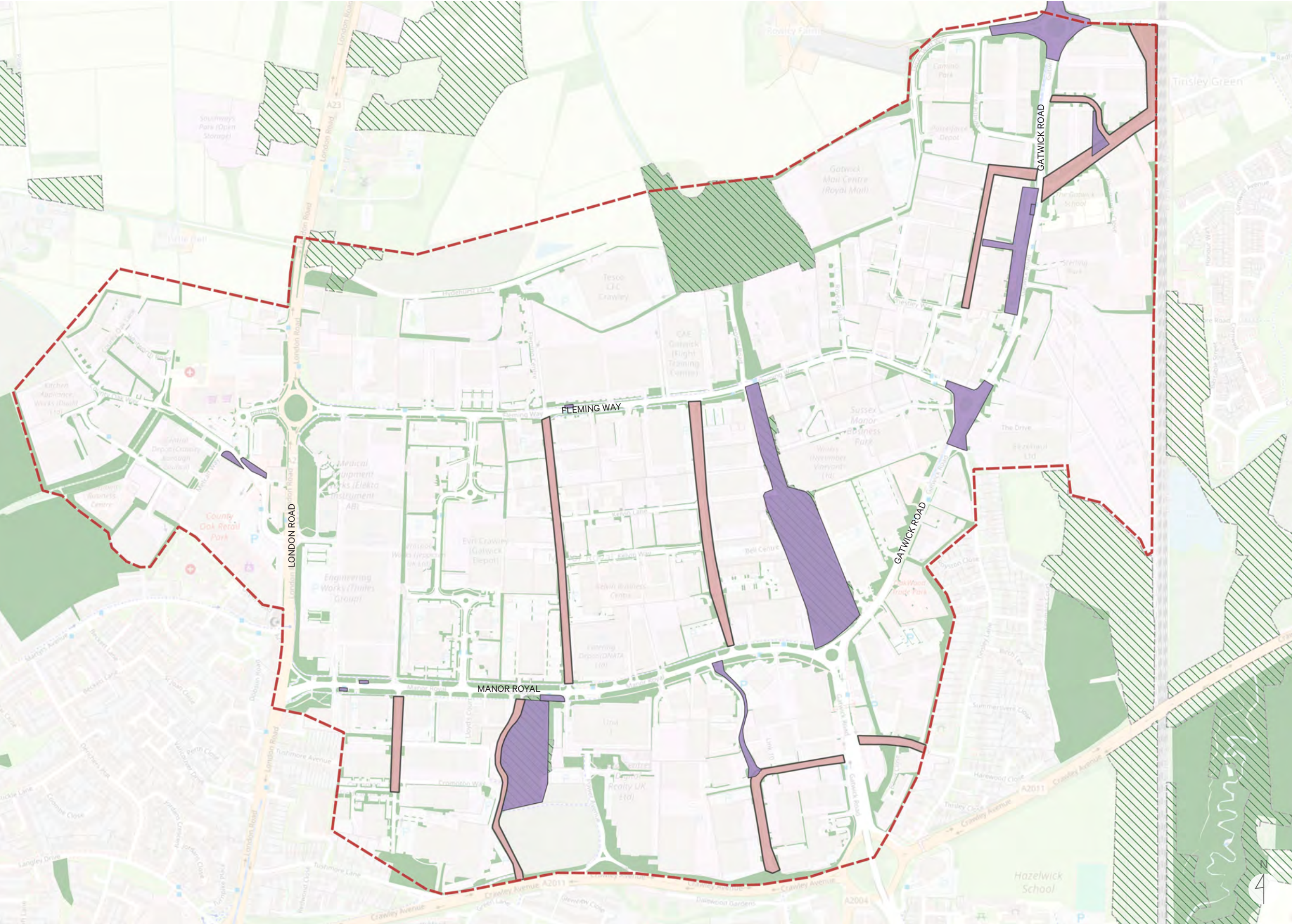
ALL FUTURE SIGNATURE PROJECTS, APART FROM ENHANCEMENT TO AREAS OF WOODLAND HAVE UGF POTENTIAL

GATEWAY 4 & 5, WOOLBOROUGH LANE, COUNTY OAK & THE AREAS OF WOODLAND PROVIDE BNG POTENTIAL

ALL HOTSPOT PROJECTS HAVE UGF POTENTIAL

MAGPIE WOOD FOOTPATH SCORES HIGHLY ACROSS ALL ECOSYSTEM SERVICES

THOSE PROJECTS THAT FALL WITHIN THE BOULEVARDS SCORE HIGHLY IN ADDRESSING AIR & NOISE POLLUTION



- MANOR ROYAL
- WOODLAND ASSETS
- GREEN ASSETS
- TARGETED HOTSPOTS
- SIGNATURE PROJECTS

CONTAINS PUBLIC SECTOR
INFORMATION LICENSED UNDER THE
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PROJECTS PACK SIGNATURE PROJECTS AND HOT SPOTS

BID MAINTENANCE

The Manor Royal Maintenance Team are dedicated to providing a daily programme of grounds maintenance and litter-picking services on top of and in addition to those provided by both CBC and WSCC.

This service currently provides enhanced maintenance such as grass-cutting, verges, hedge trimming and litter picking throughout Manor Royal via a dedicated team provided by the BID.

All of the opportunities within this GI Framework will rely on ongoing management and maintenance. The detail of who takes on this responsibility depends on the area and the asset.

However, it is envisaged that the majority of the management and maintenance related improvements to GI could be taken on and delivered by the dedicated Manor Royal Maintenance Team provided by the BID.

This could relate generally to habitat capital works and ongoing maintenance. It could also relate to specific projects such as those Hotspots indicated in the Projects Pack.

There are specific capital works and maintenance works, as shown on the table on the next page, for targeted habitats that will bring multiple biodiversity benefit to Manor Royal.

Headlines actions for BID Maintenance include:

MOST OF THE AREAS OF EXISTING AMENITY GRASS HAVE POTENTIAL TO BE ENHANCED TO SPECIES RICH GRASS THAT HELPS PROVIDE BETTER BIODIVERSITY. THIS COULD BE ACHIEVED THROUGH SEEDING & CHANGES IN MOWING REGIMES

AREAS OF EXISTING BRAMBLE SCRUB CAN BE ENHANCED & MAINTAINED TO MIXED SCRUB. EXISTING MIXED SCRUB CAN BE ENHANCED FROM POOR CONDITION TO MODERATE THROUGH ONGOING MAINTENANCE

HEDGES IN POOR CONDITION CAN BE ENHANCED TO SPECIES RICH NATIVE HEDGEROWS THROUGH PLANTING ADDITIONAL SPECIES & PROVIDING REGULAR MAINTENANCE

WORKING IN PARTNERSHIP WITH OTHERS SUCH AS THE SWT, AREAS OF WOODLAND CAN BE ENHANCED THROUGH THE REMOVAL OF INVASIVE SPECIES & A PROGRAMME OF COPPING

EXISTING TREES & THEIR CANOPY IS ENHANCED THROUGH REGULAR MANAGEMENT & MAINTENANCE. NEW TREES CAN BE PLANTED & EXTRA CARE GIVEN TO ENSURE SUCCESSFUL GROWTH

COMMITMENT TO AN UPLIFT OF ONGOING MANAGEMENT & MAINTENANCE FOR PROJECTS PACK PROJECTS INCLUDING SIGNATURE PROJECTS, GATEWAYS & HOTSPOTS.

Plus regular monitoring and reporting on progress and success of delivering this GI Framework.

CAPITAL WORKS & ONGOING MAINTENANCE FOR HABITATS

Habitat	Habitat Targets	Capital Works	Maintenance Works	Biodiversity Benefits
Scrub	Any bramble scrub enhanced to mixed scrub; existing mixed scrub enhanced to moderate condition.	Thinning out of any brambles to plant additional scrub species such as hawthorn, blackthorn, spindle, hazel, elder.	Coppicing areas of scrub on rotation to promote new growth of scrub. Removal of INNS, and control of over competitive plants.	The scrub will provide valuable refugia and feeding for birds. Invertebrates will also benefit from the diversity of plant species in the scrub.
Woodland	Both existing wet woodland and lowland mixed deciduous woodland are to be enhanced to moderate condition. Wet woodland to include scrapes to improve the wetland matrix.	Creation of scrapes within the wet woodland areas. Potential thinning of areas in the lowland mixed deciduous woodland. Potentially break Crawter's Brook out of culvert.	Removal of INNS and coppicing of understory species. Creation of temporary open spaces to improve the restocking rate of the woodland.	The woodland habitat mosaic will provide ecological benefits to wildlife including birds, amphibians, and aquatic insects, as well as supporting plant species that thrive in damp conditions.
Grassland	All areas of poor condition modified grassland will be enhanced to moderate condition other neutral grassland.	Seeding/green hay spreading of modified grassland to encourage growth of neutral grassland species.	Annual hay cuts twice per year (March-April and July-August). Arisings removed from habitat.	Increased diversity of flowering plant species will be beneficial to the pollinators, bat species as well as the soil quality.
Urban Trees	Planting of urban trees has been recommended in areas of grassland alongside roads that do not currently have lines of trees of hedgerows.	Planting of individual trees in specified areas of the site.	Pollarding and retention of deadwood. Irrigation maybe required for the formative years of the trees while they establish.	These trees will provide valuable ecosystem services in the form of carbon sequestration, temperature regulation, and air pollution reduction, as well as providing habitat for wildlife such as birds and insects.
Lines of Trees	Lines of trees will be enhanced from poor to moderate condition.	None needed.	Pollarding and retention of deadwood.	Enhancing these trees will provide vital nesting habitat for birds, as well as roosting habitats for bats.
Hedgerows	Poor condition native hedgerows will be enhanced to moderate condition species-rich native hedgerows.	Thinning of denser areas along the hedgerow to plant additional species to improve the diversity and class the hedgerow as species rich.	Hedge flailing every three years, with hedge laying every 15 years.	These hedgerows will increase species diversity and provide valuable refugia and feeding for a variety of birds and insects, while also increasing habitat connectivity across the park.

PARTNERSHIP WORKING ACROSS LAND OWNERSHIP

GI assets and suggested opportunities to improve the network generally fall within publicly accessible land and typically fall within ownership of either WSCC or CBC.

As with many enhancement projects within Manor Royal, the BID are well placed to either act as a lead, bringing together various organisations to deliver a holistic and 'place specific' outcome. Or to be a key partner in helping deliver projects led by one of the local authorities or others.

The plan on the next page shows an overlay of CBC / WSCC owned land and GI assets across Manor Royal.

Notwithstanding this, there is also much opportunity for land owners, businesses and other organisations to help deliver the strategic aims and vision of this GI Framework. The principles cross over land ownership and can be applied to all of Manor Royal.

Whilst the GI Framework focuses on GI within or close to publicly accessible land, private spaces, forecourts, frontages, buildings and development sites provide opportunities to enhance the network of GI and increase BNG and UGF. This GI Framework encourages this.

It is not the purpose of the GI Framework to replace local planning policies or Supplementary Planning Documents.

It does, however, promote and provide a steer on how to improve GI within private land and how this should sit within the wider GI network.

Other important partners of the BID who can help deliver this GI Framework are typically already helping protect and improve the existing GI across Manor Royal.

Continuing and strengthening these relationships, such as with organisations like Sussex Wildlife Trust (SWT) and Gatwick Greenspace Partnership (GGP) could aid accessing external funding, delivery of nature conservation work and related people engagement activities.

This GI Framework can also help influence CBC's Green Infrastructure Plans and Policies, updated Supplementary Planning Documents and the Manor Royal Design Guide. It can also support WSCC's Local Nature Recovery Strategy (LNRS).

The Action Plans within this GI Framework are intended to illustrate how partnerships will deliver the vision and strategic aims. They can be updated on a regular basis and actions added to under each of the thematic and strategic aims is required.

LIMITATION AND CAVEATS

Some considerations that influence what the Manor Royal GI Framework can and can't do:

- The BID runs in 5 year cycles, so medium and longer term plans could be broken into phases to fit that schedule;
- The BID is not the landowner;
- The GI Framework looks at all public realm i.e. land accessible or viewable as you move through the BID area, however this is a mix of private and public land;
- Any recommendations arising out of the GI Framework will need permission of other land/owners businesses as appropriate;
- Due to the location of Manor Royal being within 13km of Gatwick Airport, all proposals will need to be consulted on with Gatwick Airport so to minimise bird strike risk;
- Whilst the BID maintains much of the land through an its grounds maintenance team, many businesses manage their land independently;
- Some GI Framework recommendations will need approval of other regulating bodies e.g. CBC, WSCC and the Environment Agency if proposing works that impact on water and/or drainage. Natural England will need to be engaged if impacting on protected species, habitats, or designated conservation areas;
- Any project proposals will have to be costed and fund raised either through the MR BID levy and/or external funding;
- External funding applications are likely to be affected by grant funding schedules e.g. applications on 3 month, 6 month cycles; and
- BNG may provide a mechanism to help with long term i.e. 30 years funding for some proposals, however there are some initial and ongoing costs e.g. initial baseline condition assessments and establishing HMMP's, costs related to registration with Natural England and other marketing; and also ongoing maintenance.

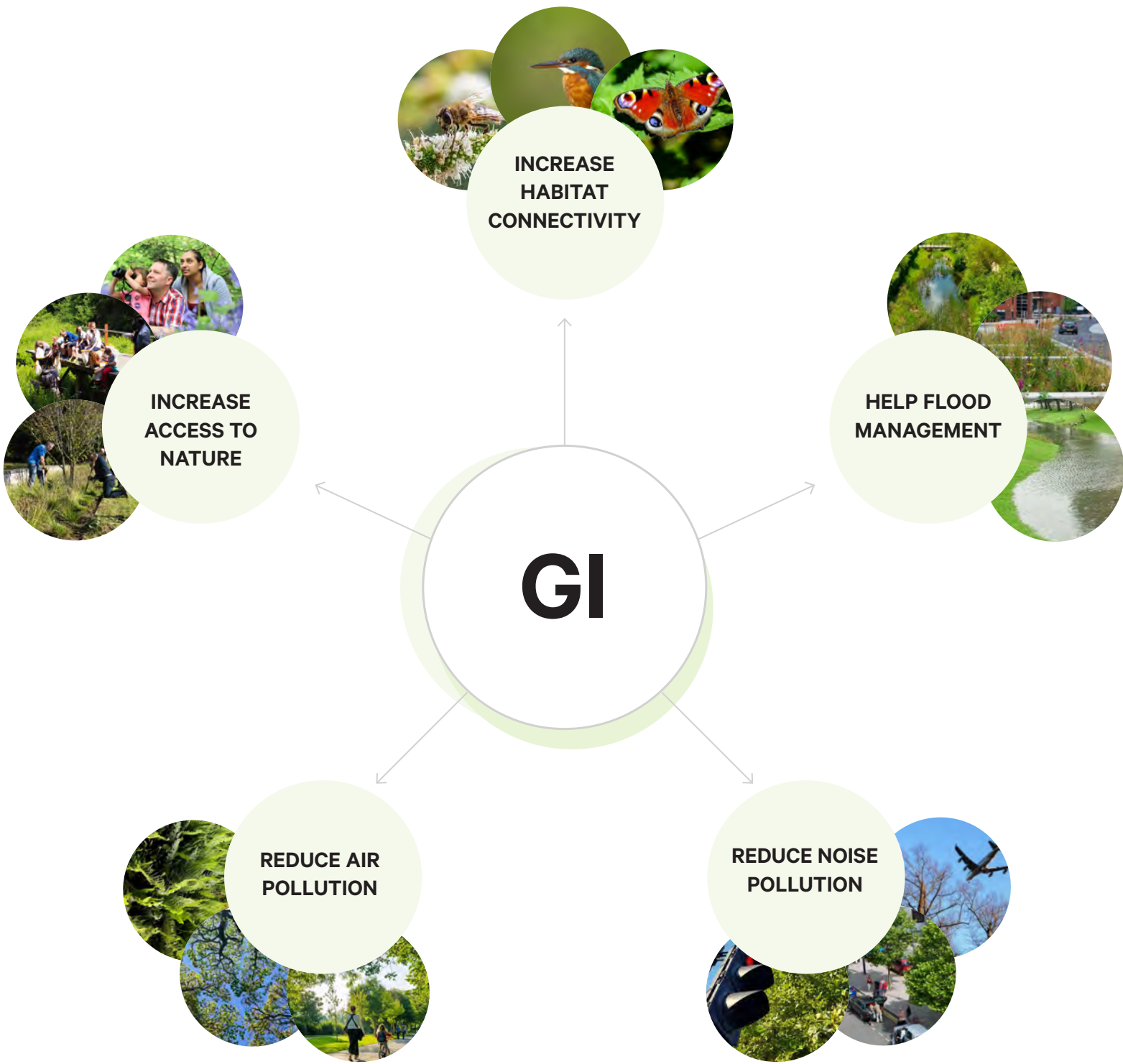


GREEN INFRASTRUCTURE & COUNCIL OWNED LAND

As noted in section 1 of this GI Framework, protecting and improving GI within Manor Royal requires action. These actions can be measured against the potential benefits they bring to Ecosystem Services for Manor Royal.

Each action within the following Action Plans has been initially and broadly assessed against these 'potential benefits'.

This has helped inform if the action is a high priority in relation to delivering the GI Framework Vision and its Strategic Aims.



Potential benefits from improving GI within Manor Royal have been considered and used to assess each Action.

HOW TO USE THE ACTION PLANS

Specific actions to deliver this GI Framework are framed and listed under each of the Strategic Aims.

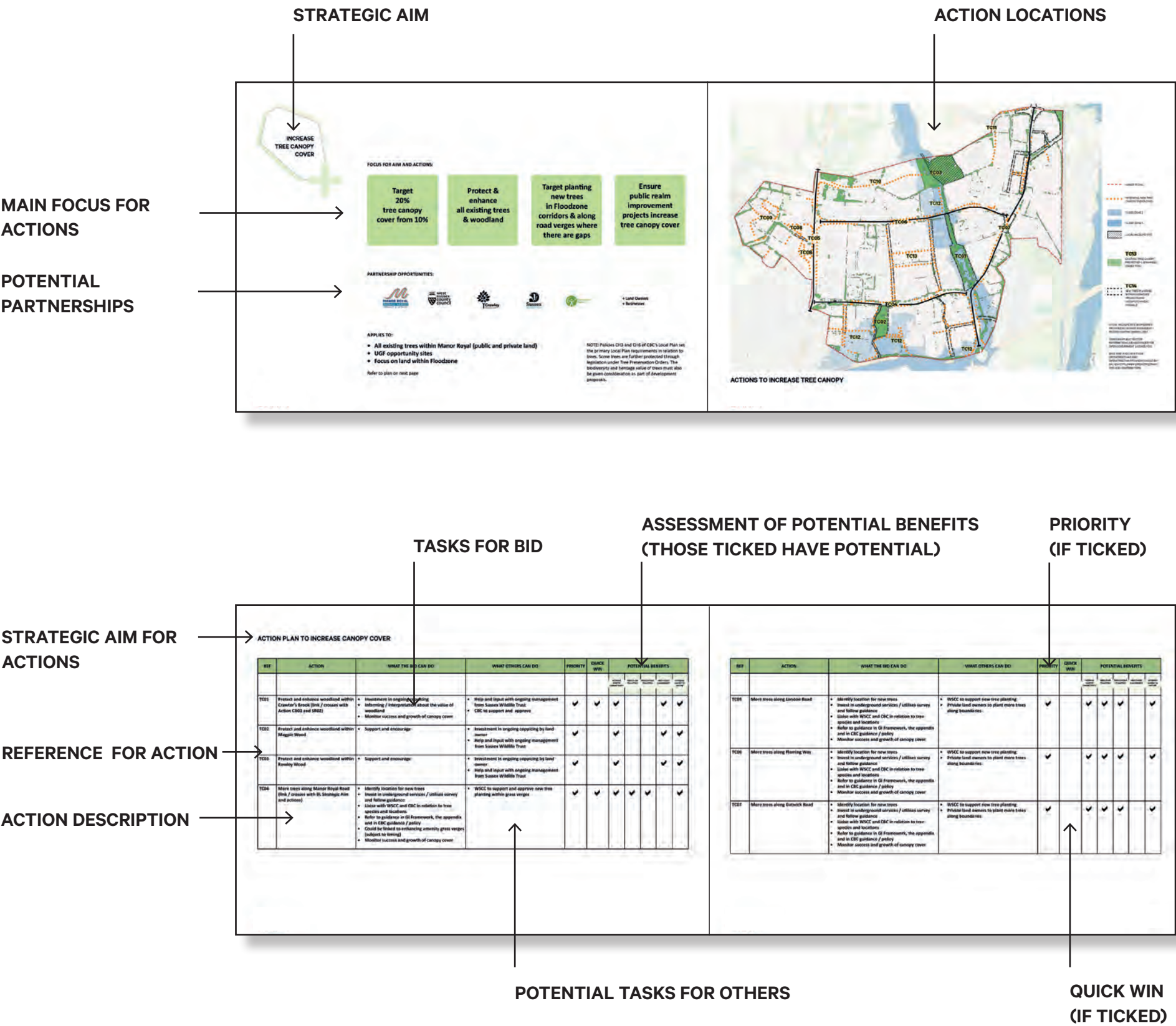
Some actions can deliver multiple aims.

Each action has been given a code / ref. These are also shown spatially on the supporting plans.

Priority and quick win Actions have been indicated together with an initial assessment against the potential benefits the action could bring if implemented.

Priorities have broadly been selected based on the potential benefits and impact and the deliverability of the action. Priorities may change based on factors such as available project budgets or external factors.

Potential partnership opportunities have been indicated at the start of each Action Plan section.





**INCREASE
TREE CANOPY
COVER**

FOCUS FOR AIM AND ACTIONS:

**Target
20%
tree canopy
cover from 10%**

**Protect &
enhance
all existing trees
& woodland**

**Target planting
new trees
in Floodzone
corridors & along
road verges where
there are gaps**

**Ensure
public realm
improvement
projects increase
tree canopy cover**

PARTNERSHIP OPPORTUNITIES:



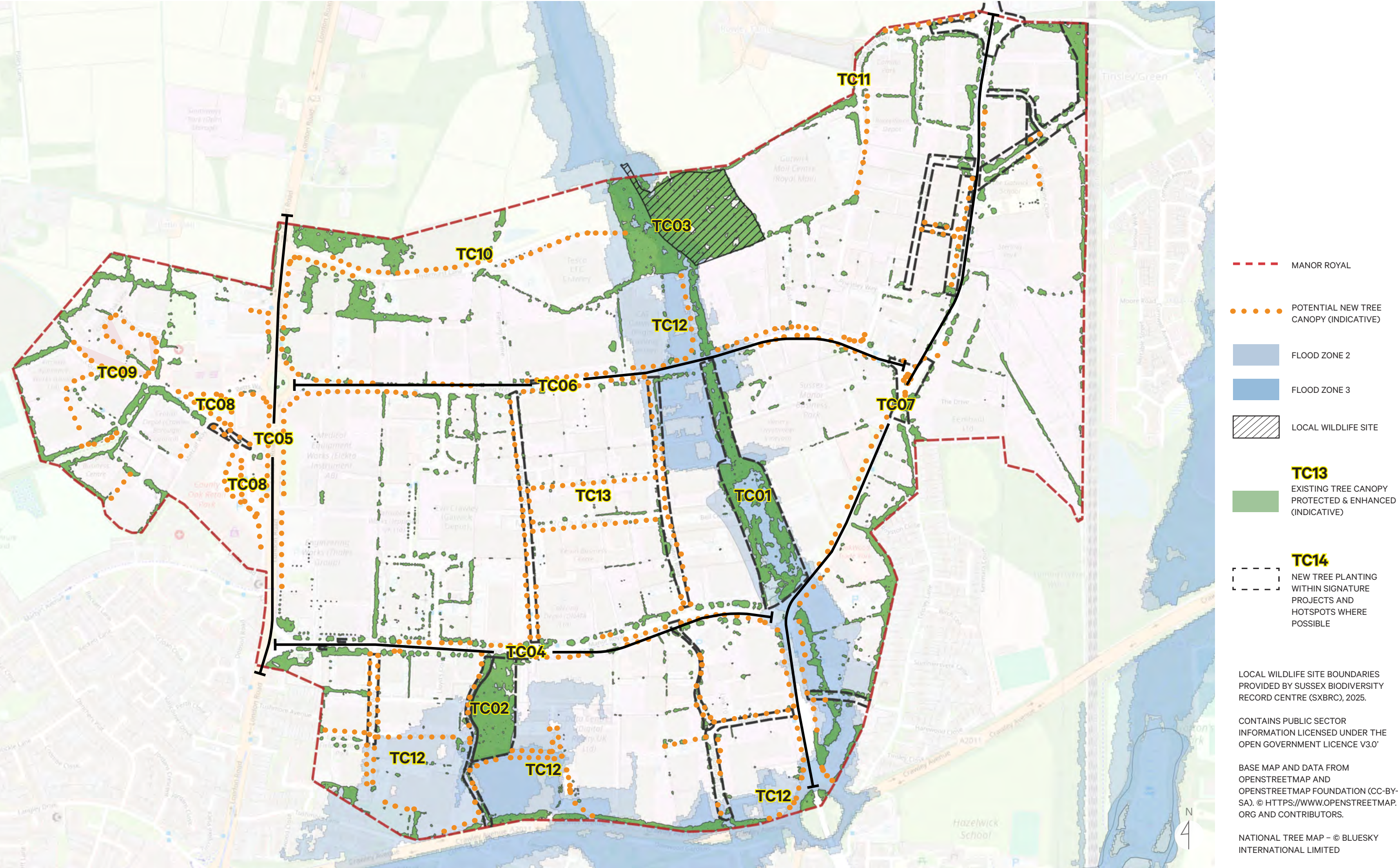
**+ Land Owners
+ Businesses**

APPLIES TO:

- **All existing trees within Manor Royal (public and private land)**
- **UGF opportunity sites**
- **Focus on land within Floodzone**

Refer to plan on next page

NOTE: Policies CH3 and CH6 of CBC's Local Plan set the primary Local Plan requirements in relation to trees. Some trees are further protected through legislation under Tree Preservation Orders. The biodiversity and heritage value of trees must also be given consideration as part of development proposals.



ACTIONS TO INCREASE TREE CANOPY

ACTION PLAN TO INCREASE CANOPY COVER

REF	ACTION	WHAT THE BID CAN DO	WHAT OTHERS CAN DO	PRIORITY	QUICK WIN	POTENTIAL BENEFITS				
						INCREASE HABITAT CONNECTIVITY	REDUCE AIR POLLUTION	REDUCE NOISE POLLUTION	HELP FLOOD MANAGEMENT	INCREASE ACCESS TO NATURE
TC01	Protect and enhance woodland within Crawter's Brook (link / crosses with Action CB03 and SR02)	- Investment in ongoing coppicing - Informing / interpretation about the value of woodland - Monitor success and growth of canopy cover	- Help and input with ongoing management from Sussex Wildlife Trust - CBC to support and approve	✓	✓	✓			✓	✓
TC02	Protect and enhance woodland within Magpie Wood	Support and encourage	- Investment in ongoing coppicing by land owner - Help and input with ongoing management from Sussex Wildlife Trust	✓		✓			✓	✓
TC03	Protect and enhance woodland within Rowley Wood	Support and encourage	- Investment in ongoing coppicing by land owner - Help and input with ongoing management from Sussex Wildlife Trust	✓		✓			✓	✓
TC04	More trees along Manor Royal Road (link / crosses with BL Strategic Aim and actions)	- Identify location for new trees - Invest in underground services / utilises survey and follow guidance - Liaise with WSCC and CBC in relation to tree species and locations - Refer to guidance in GI Framework, the appendix and in CBC guidance / policy - Could be linked to enhancing amenity grass verges (subject to timing) - Monitor success and growth of canopy cover	WSCC to support and approve new tree planting within grass verges	✓	✓	✓	✓	✓		✓

REF	ACTION	WHAT THE BID CAN DO	WHAT OTHERS CAN DO	PRIORITY	QUICK WIN	POTENTIAL BENEFITS				
						INCREASE HABITAT CONNECTIVITY	REDUCE AIR POLLUTION	REDUCE NOISE POLLUTION	HELP FLOOD MANAGEMENT	INCREASE ACCESS TO NATURE
TC05	More trees along London Road	- Identify location for new trees - Invest in underground services / utilises survey and follow guidance - Liaise with WSCC and CBC in relation to tree species and locations - Refer to guidance in GI Framework, the appendix and in CBC guidance / policy - Monitor success and growth of canopy cover	- WSCC to support new tree planting - Private land owners to plant more trees along boundaries	✓		✓	✓	✓		✓
TC06	More trees along Fleming Way	- Identify location for new trees - Invest in underground services / utilises survey and follow guidance - Liaise with WSCC and CBC in relation to tree species and locations - Refer to guidance in GI Framework, the appendix and in CBC guidance / policy - Monitor success and growth of canopy cover	- WSCC to support new tree planting - Private land owners to plant more trees along boundaries	✓		✓	✓	✓		✓
TC07	More trees along Gatwick Road	- Identify location for new trees - Invest in underground services / utilises survey and follow guidance - Liaise with WSCC and CBC in relation to tree species and locations - Refer to guidance in GI Framework, the appendix and in CBC guidance / policy - Monitor success and growth of canopy cover	- WSCC to support new tree planting - Private land owners to plant more trees along boundaries	✓		✓	✓	✓		✓

REF	ACTION	WHAT THE BID CAN DO	WHAT OTHERS CAN DO	PRIORITY	QUICK WIN	POTENTIAL BENEFITS				
						INCREASE HABITAT CONNECTIVITY	REDUCE AIR POLLUTION	REDUCE NOISE POLLUTION	HELP FLOOD MANAGEMENT	INCREASE ACCESS TO NATURE
TC08	More trees along road and within public car park areas (eg Retail Park car parks)	- Support an urban tree planting programme to increase canopy cover - Working with Retail parks and CBC land owner	- WSCC to support new tree planting - CBC to support new tree planting - Retail Park to review carparking arrangement and look for space for more trees. - Refer to guidance in GI Framework, the appendix and in CBC guidance / policy			✓	✓	✓	✓	✓
TC09	More trees along streets and public footpaths to create linear urban trees	- Identify location for new trees - Invest in underground services / utilises survey and follow guidance - Liaise with WSCC and CBC in relation to tree species and locations - Refer to guidance in GI Framework, the appendix and in CBC guidance / policy	- WSCC to support new tree planting - Private land owners to plant more trees along boundaries	✓		✓	✓	✓		✓
TC10	More trees along Hydehurst Lane	- Identify location for new trees - Invest in underground services / utilises survey and follow guidance - Liaise with WSCC and CBC in relation to tree species and locations - Refer to guidance in GI Framework, the appendix and in CBC guidance / policy - Monitor success and growth of new trees	WSCC to support and approve new tree planting within grass verges			✓	✓	✓		✓
TC11	More trees along James Watt Way	- Identify location for new trees - Invest in underground services / utilises survey and follow guidance - Liaise with WSCC and CBC in relation to tree species and locations - Refer to guidance in GI Framework, the appendix and in CBC guidance / policy - Monitor success and growth of new trees	WSCC to support and approve new tree planting within grass verges			✓	✓	✓		✓

REF	ACTION	WHAT THE BID CAN DO	WHAT OTHERS CAN DO	PRIORITY	QUICK WIN	POTENTIAL BENEFITS				
						INCREASE HABITAT CONNECTIVITY	REDUCE AIR POLLUTION	REDUCE NOISE POLLUTION	HELP FLOOD MANAGEMENT	INCREASE ACCESS TO NATURE
TC12	More trees within Floodzones 2/3	- Identify location for new trees - Invest in underground services / utilises survey and follow guidance - Liaise with WSCC and CBC in relation to tree species and locations - Refer to guidance in GI Framework, the appendix and in CBC guidance / policy - Could be linked to SUDs scheme - Monitor success and growth of new trees	WSCC to support and approve new tree planting within grass verges	✓		✓	✓	✓		✓
TC13	Incorporate new tree planting in Signature Projects and Hotspot projects	- Incorporate new trees within all new Signature Projects where possible - Consider new trees within Hotspot Projects where possible - Refer to guidance in GI Framework, the appendix and in CBC guidance / policy - Monitor success and growth of new trees	CBC to support new tree planting	✓	✓		✓	✓		✓
TC14	Protect and enhance existing quality tree canopy cover	- Invest on ongoing management and maintenance of existing tree stock within public land - Monitor success and growth of existing tree canopy cover.	- TPOs / Planning controls / policies - Private developers to incorporate existing trees within development layouts			✓	✓	✓	✓	✓



FOCUS FOR AIM AND ACTIONS:

Enhance & manage existing woodland to a higher standard than existing

Naturalise the brook corridor using NbS (nature based solutions)

Increase community involvement, engagement & awareness

Target up to 25% BNG uplift within the People's Park

PARTNERSHIP OPPORTUNITIES:



+ Land Owners
+ Businesses

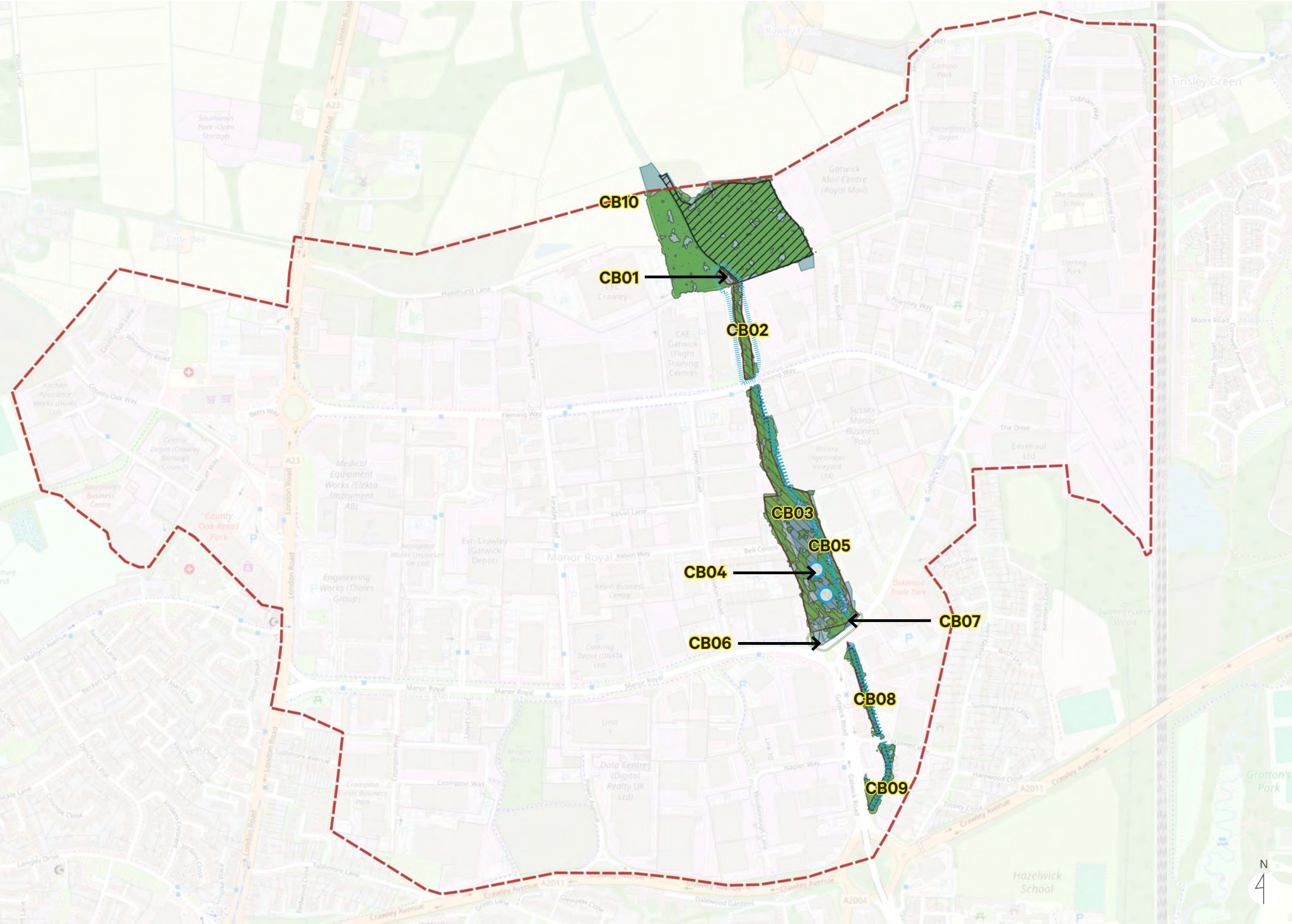
APPLIES TO:

- **Crawter's Brook corridor from Rowley Wood to Hazelwick Roundabout**
- **Crawter's Brook People's Park**

Refer to plan on next page

Note: Parts of the Corridor are designated under CBC Local Plan.

NOTE: Initiatives and actions can align with Green Flag Award criteria or other prestigious recognition awards such as Civic Trust Awards, Landscape Institute and British BIDS awards.



ACTIONS TO PROTECT & ENHANCE CRAWTER’S BROOK

ACTION PLAN TO PROTECT & ENHANCE THE BROOK CORRIDOR

REF	ACTION	WHAT THE BID CAN DO	WHAT OTHERS CAN DO	PRIORITY	QUICK WIN	POTENTIAL BENEFITS				
						INCREASE HABITAT CONNECTIVITY	REDUCE AIR POLLUTION	REDUCE NOISE POLLUTION	HELP FLOOD MANAGEMENT	INCREASE ACCESS TO NATURE
CB01	Enhancement to pump house area in Rowley Wood	- Invest in clearance and in ongoing coppicing of area by pump house - Monitor success of investment	CBC to support and approve		✓					✓
CB02	Enhance vegetation along brook on Jenner Road between Fleming Way and Rowley Wood	- Invest in clearance and in ongoing maintenance of vegetation along the brook - Monitor success of investment	- CBC to support and approve - Help and input with ongoing management from Sussex Wildlife Trust	✓	✓	✓			✓	✓
CB03	Protect and enhance woodland within Crawter's Brook (link / crosses with Action SR02)	- Invest in baseline Ecological Assessment. - Identify locations to coppice / enhance habitats. - Investment in ongoing coppicing through BID Maintenance Team or others. - Investing in information / interpretation about the value of woodland and habitats within Crawter's Brook - Invest in monitoring success - Involve volunteers in process and outcomes	- Help and input with ongoing management from Sussex Wildlife Trust - CBC to support and approve - Businesses and local schools to be involved in volunteering etc.	✓	✓	✓	✓		✓	✓
CB04	Create ephemeral scrapes with the basin	- Instigate feasibility and delivery based on ABEC recommendation in Appendix - Consult with EA, WSCC, CBC, SWT, GGO and Gatwick Airport	Consultation with and involvement by EA, WSCC, CBC, SWT, GGP and Gatwick airport is required.			✓			✓	✓
CB05	Naturalising the brook	- Take the lead exploring options and working with partners and land owners - Invest or seek investment in best option to deliver - Monitor success of investment	Consultation with and involvement by EA, WSCC, CBC, SWT, GGP and Gatwick airport is required.			✓			✓	✓

REF	ACTION	WHAT THE BID CAN DO	WHAT OTHERS CAN DO	PRIORITY	QUICK WIN	POTENTIAL BENEFITS				
						INCREASE HABITAT CONNECTIVITY	REDUCE AIR POLLUTION	REDUCE NOISE POLLUTION	HELP FLOOD MANAGEMENT	INCREASE ACCESS TO NATURE
CB06	Increase species richness of grass area by picnic area (link / crosses with Action SR02)	- Implement through Manor Royal Maintenance Team. - Following guidance within GI Framework and its appendix - Monitor success of investment	CBC to support		✓	✓				✓
CB07	Increase species richness of grass area by Gatwick Road secondary entrance (link / crosses with Action SR02)	- Implement through Manor Royal Maintenance Team. - Following guidance within GI Framework and its appendix - Monitor success of investment	CBC to support		✓	✓				✓
CB08	Improve quality of GI along Crawters Brook south of Gatwick Road behind Bank Precinct. This could be linked with a wider project to naturalise the channelled edge of the brook.	- Implement general enhancement through Manor Royal Maintenance Team. - Following guidance within GI Framework and its appendix - Take the lead exploring options and working with partners and land owners - Invest or seek investment in best option to deliver - Monitor success of investment	Consultation with and involvement by EA, WSCC, CBC, SWT, GGP and Gatwick airport is required.			✓			✓	✓
CB09	Improve quality of GI along Crawters Brook south of Maxwell Way behind Baird Close. This could be linked with a wider project to naturalise the channelled edge of the brook.	- Implement general enhancement through Manor Royal Maintenance Team. - Following guidance within GI Framework and its appendix - Take the lead exploring options and working with partners and land owners - Invest or seek investment in best option to deliver - Monitor success of investment	Consultation with and involvement by EA, WSCC, CBC, SWT, GGP and Gatwick airport is required.			✓			✓	✓



FOCUS FOR AIM AND ACTIONS:

**Increase areas
of coppiced
woodland**

**Enhance
all areas
of existing
bramble scrub
to mixed native
scrub**

**Convert most
verges of mown
amenity grass
to species rich
meadow grass**

**Upgrade existing
hedges &
hedgerows to
species rich mixed
native hedgerows**

PARTNERSHIP OPPORTUNITIES:

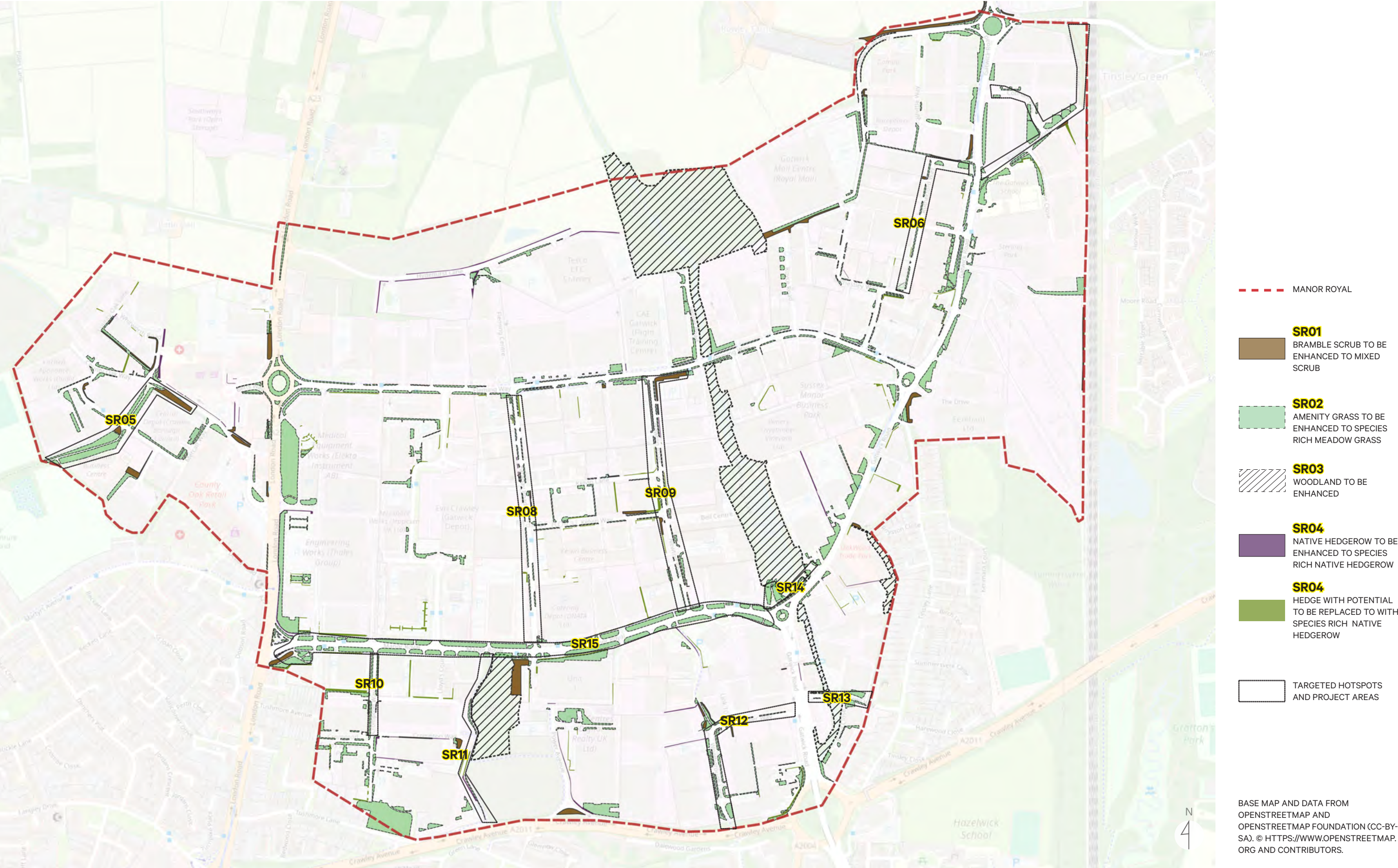


**+ Land Owners
+ Businesses**

APPLIES TO:

- **All GI within Manor Royal**

NOTE: Principles can be applied to all GI across Manor Royal.



ACTIONS TO INCREASE SPECIES RICHNESS

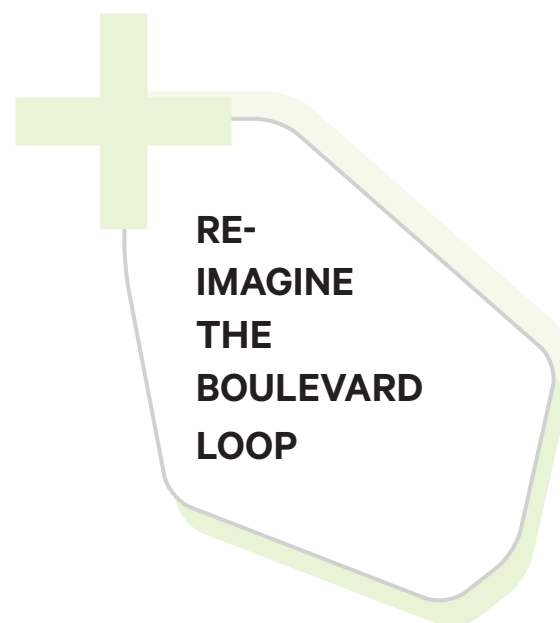
ACTION PLAN TO INCREASE SPECIES RICHNESS

REF	ACTION	WHAT THE BID CAN DO	WHAT OTHERS CAN DO	PRIORITY	QUICK WIN	POTENTIAL BENEFITS				
						INCREASE HABITAT CONNECTIVITY	REDUCE AIR POLLUTION	REDUCE NOISE POLLUTION	HELP FLOOD MANAGEMENT	INCREASE ACCESS TO NATURE
SR01	Enhance areas of scrub	- Invest in ongoing management and maintenance plan to enhance areas of bramble scrub to mixed native scrub - Monitor success through additional habitat condition surveys and / or visual observation. - Provide information and interpretation about the benefits of scrub	Scrub to be enhanced on private land can also follow the guidance within this GI framework			✓				✓
SR02	Enhance grass verges and other areas of amenity grass	- Invest in ongoing management and maintenance - Monitor success through additional habitat condition surveys and / or visual observation. - Provide information and interpretation about the benefits of wildflower	Amenity grass to be enhanced on private land can also follow the guidance within this GI framework	✓	✓	✓				✓
SR03	Coppicing areas of woodland (links to CB03 and TC01)	- Investment in ongoing coppicing at Crawter's Brook - Informing / interpretation about the value of woodland - Advocate and support coppicing on private land - Monitor success through additional habitat condition surveys and / or visual observation.	Land owners to undertake this follow guidance in the GI Framework.	✓	✓	✓			✓	✓
SR04	Upgrading hedgerows to species rich native hedgerows	- Invest in ongoing management and maintenance plan to enhance hedgerows - Monitor success through additional habitat condition surveys and / or visual observation. - Provide information and interpretation about the benefits of hedgerows	- Landowner to follow guidance - SWT / GGP to support / be involved in delivery - Community / volunteers to be involved in delivery			✓				✓

REF	ACTION	WHAT THE BID CAN DO	WHAT OTHERS CAN DO	PRIORITY	QUICK WIN	POTENTIAL BENEFITS				
						INCREASE HABITAT CONNECTIVITY	REDUCE AIR POLLUTION	REDUCE NOISE POLLUTION	HELP FLOOD MANAGEMENT	INCREASE ACCESS TO NATURE
SR05	Cherry Lane Playing Field / Metcalf Way enhancement Project Area	- Lead on this project working with partners - Short-term improvements through changes in mowing regime follow guidance on increasing species richness of amenity grass. - Medium to longer term project to look at broader improvement - Monitor success through additional habitat condition surveys and / or visual observation.	CBC to support	✓		✓				✓
SR06	Improve habitats / surface types along Rutherford Way as part of delivering targeted hotspot improvement (Projects Pack)	- Invest and lead on these through ongoing management and maintenance. - Monitor success through additional habitat condition surveys and / or visual observation.	CBC to support	✓		✓	✓	✓		✓
SR07	Tinsley Lane North / Old Gatwick Road enhancement Project Area	- Lead on this project working with partners - Short-term improvements through cutting back scrub branches and implement coppice regime on some selected hawthorn plants. - Medium to longer term project to look at broader improvements including removal of tarmac or reduction in width of tarmac - Replace tarmac with either woodchip or permeable paths to aid permeability and create a more 'natural' space. - Monitor success through additional habitat condition surveys and / or visual observation.	- Support the proposals - Help secure any necessary permissions re re-naturalising the route			✓			✓	✓
SR08	Improve habitats / surface types along Faraday Road as part of delivering targeted hotspot improvement (Projects Pack)	- Invest and lead on these through ongoing management and maintenance. - Monitor success through additional habitat condition surveys and / or visual observation.	Support	✓		✓	✓			✓

REF	ACTION	WHAT THE BID CAN DO	WHAT OTHERS CAN DO	PRIORITY	QUICK WIN	POTENTIAL BENEFITS				
						INCREASE HABITAT CONNECTIVITY	REDUCE AIR POLLUTION	REDUCE NOISE POLLUTION	HELP FLOOD MANAGEMENT	INCREASE ACCESS TO NATURE
SR09	Improve habitats / surface types along Newton Road as part of delivering targeted hotspot improvement (Projects Pack)	- Invest and lead on these through ongoing management and maintenance. - Monitor success through additional habitat condition surveys and / or visual observation.	Support	✓		✓	✓			✓
SR10	Improve habitats / surface types along Crompton Way as part of delivering targeted hotspot improvement (Projects Pack)	- Identify areas to the enhanced. - Invest in initial on site Habitat condition survey to establish on site baseline to monitor and measure success. - Replace selected areas of amenity grass with meadow rich species following guidance within GR Framework (or additional best practice / specifications from seed suppliers). - Invest in interpretation signs to communicate the project / intent / outcomes. - Monitor success through additional habitat condition surveys and / or visual observation.	Support	✓	✓	✓			✓	✓
SR11	Improve habitats / surface types along Magpie Wood walkway as part of delivering targeted hotspot improvement (Projects Pack)	- Identify areas to the enhanced. - Invest in initial on site Habitat condition survey to establish on site baseline to monitor and measure success. - Replace selected areas of amenity grass with either woodland understory or meadow rich species following guidance within GR Framework. - Invest in habitat creation such as log piles and bug hotels. - Invest in interpretation signs to communicate the project / intent / outcomes. - Monitor success through additional Habitat condition surveys and / or visual observation.	- Support - Businesses and local schools to be involved in volunteering etc.	✓	✓	✓			✓	✓

REF	ACTION	WHAT THE BID CAN DO	WHAT OTHERS CAN DO	PRIORITY	QUICK WIN	POTENTIAL BENEFITS				
						INCREASE HABITAT CONNECTIVITY	REDUCE AIR POLLUTION	REDUCE NOISE POLLUTION	HELP FLOOD MANAGEMENT	INCREASE ACCESS TO NATURE
SR12	Improve habitats / surface types along Woolborough lane / Napier Way as part of delivering targeted hotspot improvement (Projects Pack)	- Identify areas to the enhanced. - Replace selected areas of amenity grass with meadow rich species following guidance within GR Framework. - Link to Woolborough Lane Linear Park construction project. - Invest in interpretation signs to communicate the project / intent / outcomes. - Potential to invest wider to reduce vehicular overrun issue. - Monitor success through additional habitat condition surveys and / or visual observation.	Support	✓	✓	✓			✓	✓
SR13	Improve habitats / surface types along Maxwell Way as part of delivering targeted hotspot improvement (Projects Pack)	- Invest and lead on these through ongoing management and maintenance - Follow guidance in this GI Framework and within Projects Pack - Monitor success through additional habitat condition surveys and / or visual observation.	Support	✓	✓	✓	✓	✓	✓	✓
SR14	Enhance existing areas of amenity grass near picnic area at Crawter's Brook to species rich grasses. (link / crosses with Action SR02 and CB02)	- Invest and lead on these through ongoing management and maintenance - Follow guidance in this GI Framework and within Projects Pack - Monitor success through additional habitat condition surveys and / or visual observation.	Support			✓				✓
SR15	Enhance existing grass verges along Manor Royal Road to species rich grasses. (link / crosses with Action BL01 and TC04)	- Identify areas to the enhanced. - Invest in initial on site Habitat condition survey to establish on site baseline to monitor and measure success. - Replace selected areas of amenity grass with meadow rich species following guidance within GR Framework (or additional best practice / specifications from seed suppliers). - Invest in interpretation signs to communicate the project / intent / outcomes. - Monitor success through additional habitat condition surveys and / or visual observation.	Support	✓	✓	✓				✓



FOCUS FOR AIM AND ACTIONS:

**Target up to
+40%
Urban Greening
Factor (UGF) uplift
Potential**

**Increase
multifunction
qualities of
linear Green
Infrastructure**

**Reduce
noise & air
pollution**

**Influence and
enable adjoining
private land &
buildings to
provide
quality GI**

PARTNERSHIP OPPORTUNITIES:

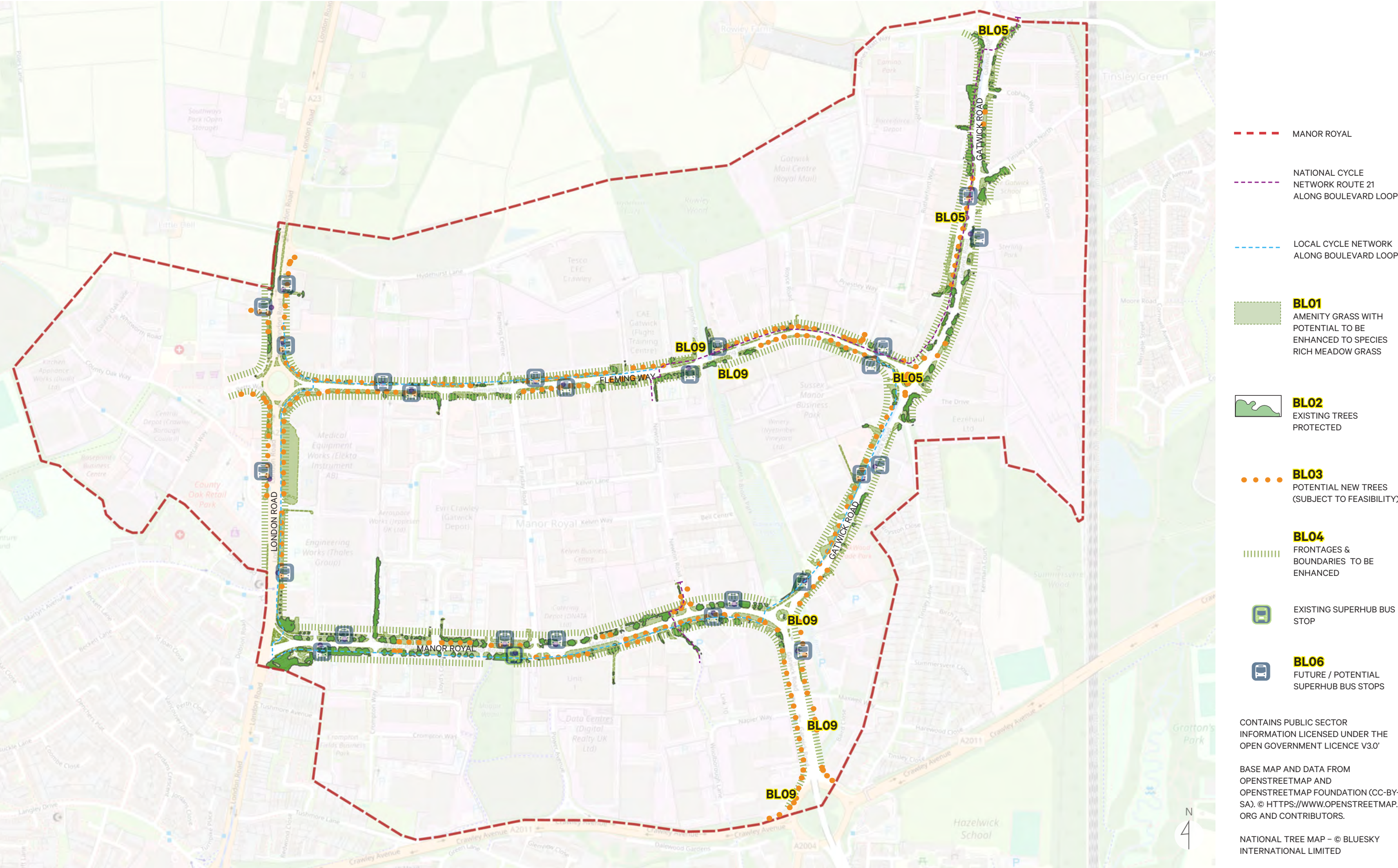


**+ Land Owners
+ Businesses**

APPLIES TO:

- **Manor Royal (Road)**
- **London Road**
- **Fleming Way**
- **Gatwick Road**

Note: GI along Manor Royal Road is identified as Structural Landscaping in CBC's Local Plan. Refer to Policy CH7 in the Local Plan.



ACTIONS TO RE-IMAGINE THE BOULEVARD LOOP

ACTION PLAN TO RE-IMAGINE THE BOULEVARD LOOP

REF	ACTION	WHAT THE BID CAN DO	WHAT OTHERS CAN DO	PRIORITY	QUICK WIN	POTENTIAL BENEFITS				
						INCREASE HABITAT CONNECTIVITY	REDUCE AIR POLLUTION	REDUCE NOISE POLLUTION	HELP FLOOD MANAGEMENT	INCREASE ACCESS TO NATURE
BL01	Enhance all grass verges along the Boulevard Loop	- Invest in changes to management of grass verges and follow guidance in this GI Framework - Monitor success through additional habitat condition surveys and / or visual observation. - Provide information and interpretation about the benefits of wildflowers along road verges	Amenity grass to be enhanced on private land can also follow the guidance within this GI framework		✓	✓				✓
BL02	Protect and enhance all trees along the Boulevard Loop	- Invest in ongoing management and maintenance of trees along the Loop - Monitor success and growth of existing canopy cover	- Support - Invest	✓	✓	✓	✓	✓		✓
BL03	Plant more trees along the the Boulevard Loop (Links with TC04,05,06,07)	- Identify location for new trees - Invest in underground services / utilises survey and follow guidance - Liaise with WSCC and CBC in relation to tree species and locations - Refer to guidance in GI Framework, the appendix and in CBC guidance / policy - Could be linked to enhancing amenity grass verges (subject to timing) - Monitor success and growth of canopy cover	WSCC to support and approve new tree planting within grass verges	✓	✓	✓	✓	✓		✓
BL04	Improve boundary treatments along Boulevard Loop	- Invest in enhancing vegetation within public land along boundaries and follow guidance in this GI Framework - Advocate for this approach to land owners / Or invest in this and incorporate boundary treatments along loop within ongoing management and maintenance of the BID - Monitor success through additional habitat condition surveys and / or visual observation.	Boundary treatments to be enhanced on private land can also follow the guidance within this GI framework			✓	✓	✓		✓

REF	ACTION	WHAT THE BID CAN DO	WHAT OTHERS CAN DO	PRIORITY	QUICK WIN	POTENTIAL BENEFITS				
						INCREASE HABITAT CONNECTIVITY	REDUCE AIR POLLUTION	REDUCE NOISE POLLUTION	HELP FLOOD MANAGEMENT	INCREASE ACCESS TO NATURE
BL05	Deliver Signature Projects within Projects Pack 2023 2028	Lead on these projects working with partners	- Support - Invest	✓		✓	✓	✓	✓	✓
BL06	Transform other bus stop locations (following principles applied to the Manor Royal Centre Superhub pilot scheme) + incorporating other green initiatives such as green walls, green roofs, rain gardens, air quality control displays etc.	Lead on these projects working with partners	- Support - Invest				✓	✓		✓
BL07	Prepare a comprehensive strategic masterplan for the Boulevard Loop (longer term and wider project) – with a focus on meeting all / multiple benefits	Take the lead on this strategic project, working with partners such as WSCC, CBC and land owners	- Support - Invest - Partner	✓		✓	✓	✓	✓	✓
BL08	Design guide to assist development along the adjoining land of the Loop	Lead on these projects working with partners	- Support - Invest - CBC to adopt as new SPD? - Developers to deliver			✓	✓	✓	✓	✓
BL09	Investigate and Deliver Sustainable Urban Drainage Systems (SuDS) within the public realm, with a focus on those areas along the Loop within Flood Zone	- Take the lead on this project, working with partners such as WSCC and CBC - Establish a Pilot scheme	- Support - Invest - Partner			✓			✓	✓

FUNDING GI ENHANCEMENTS

Much to improve the GI can be achieved with existing resources, used in a different way e.g. changing mowing regimes.

There may be the opportunity to develop a habitat bank within Manor Royal which could be the recipient of BNG Units/Credits.

It is outside of the scope of this report to investigate the feasibility or otherwise of this. However if it was agreed to develop a longer strategic plan for the area then funding would be a strand of that work

With the development of Project Pack initiatives MR will be the developer and as such will have to show at least a 10% increase in biodiversity to comply with planning regulations.

That will be most likely through on-site enhancements, with off-site enhancements if this is not possible, however it is likely that these will contribute to biodiversity enhancements within Manor Royal.

Manor Royal has a levy scheme in place which can be used either directly, or possibly could be used as match funding to help lever in larger pots of grant funding.

Biodiversity can be funded through many grant schemes. This includes both habitat and species work, although there are likely more opportunities for the former.

Projects that have already started can't be funded, salaries and related on costs can be more difficult to secure funding for.

Some funders will pay for staff costs, often requiring open recruitment, though there can be exceptions. Maintenance costs are generally not funded, however restoration and regeneration projects can be eligible for grant funding.

Grant funding sources, especially landfill tax and aggregates funding, lend themselves to funding access works which could be of use in terms of providing controlled access.

WAYS TO FUND GI INCLUDE:

- BNG
- National Lottery Heritage Fund
- National Lottery Community Fund
- Landfill Communities Fund
- Community Infrastructure Levy
- Section 106 Agreements
- Local Authority Grants
- Gatwick Airport Community Trust
- BA Better World Community Fund

“Urban green spaces alone support 2.1 million people in meeting their weekly physical activity needs.

This is estimated to be worth £5.6 billion and to avoid health service costs of around £1.4 billion.

The importance of high-quality GI is already recognised in the government commitment, contained in the Environmental Improvement Plan, that everyone should live within 15 minutes of green and blue space.”

Taken from Natural England’s Green Infrastructure Framework guidance

“We are also seeing a huge increase in the recognition of how regular contact with nature is beneficial to people’s health and well-being, and the role this can play in the prevention or treatment of a range of long-term health conditions.

At the same time, partnerships of local authorities, communities and wider stakeholders are providing the GI knowledge, skills, experiences and connections that enable GI planners and providers to improve their local GI to benefit the local economy, creating the towns and cities of the future.”

Taken from Natural England’s Green Infrastructure Framework guidance

NEXT STEPS

The integration of well planned, designed and managed Green Infrastructure into the Manor Royal Business District is supported by legislation, and both national and local policies.

It also strongly aligns with ongoing work by the BID and its partners. By aligning with these policies and ongoing work, future enhancements in the area can contribute to a more sustainable, biodiverse, and resilient environment, benefiting both businesses and the local community.

The GI Framework has been prepared by Allen Scott and ABEC, initially, as a draft for review by the BID and its partners.

The intent is to also launch the GI Framework and promote the opportunities across the Manor Royal community, stimulating buy-in and interest.

Subject to further work and guidance given to the Manor Royal Maintenance Team, changes to ongoing management and maintenance can be implemented based on the aims and actions within the GI Framework.

Ahead of this it may be prudent to record further detail on the existing condition of habitats so to measure and monitor success annually.

For those capital works projects that require planning permission Habitat Management and Monitoring Plans (HMMPs) will outline the selected areas for BNG uplift to be monitored and kept to a management regime. The HMMP will lay out when an area is monitored i.e. time of year, and how often, as well as what management prescriptions are required including when and how often.

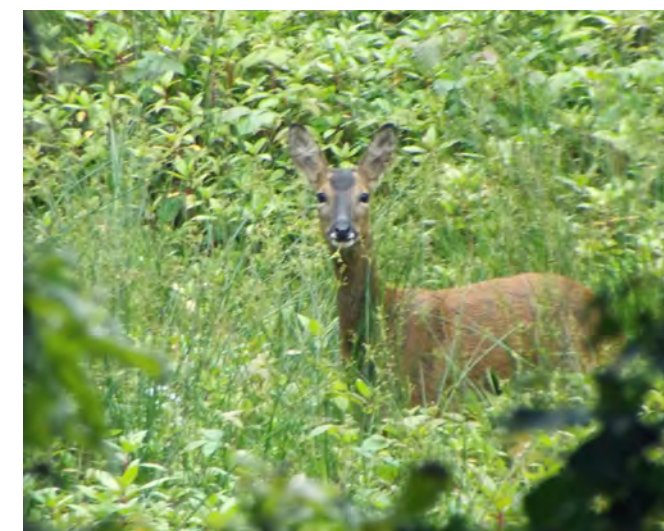
There is also opportunity to track changes in biodiversity across the site using a multi-taxonomic monitoring programme to highlight the changes that to the habitats and how they are improving the areas for wildlife.

Partnership, resourcing and funding is ultimately needed in the delivery of the GI Framework.

To help enable this, it may be prudent to establish a **Manor Royal Green Infrastructure Steering Group** of it’s own that takes ownership of delivering the GI Framework and championing its vision. This group could be led by the BID.

Alternatively or in tandem, this GI Framework and its actions could be promoted as a ‘Green it’ initiative, similar to other initiatives promoted by the BID.

It is recommended that this GI Framework is reviewed and updated to align and to coincide with BID renewal.



Deer at Crawler’s Brook People’s Park

USEFUL LINKS ABOUT GI:

<https://gipartnership.org.uk/useful-links/>

<https://designatedsites.naturalengland.org.uk/GreenInfrastructure/Home.aspx>

<https://crawley.gov.uk/planning/planning-policy/local-plan/supplementary-planning-documents/green-infrastructure-spd>

<https://publications.naturalengland.org.uk/publication/5846537451339776>

<https://www.gov.uk/government/collections/biodiversity-net-gain>

FINAL WORDS

As recognised by the UK Government's investment in preparing and championing a National Green Infrastructure (GI) Framework through Natural England, high-quality GI is essential for delivering multiple economic, environmental, social and health benefits for communities, particularly in urban areas such as Manor Royal.

Enhancing biodiversity through investment in and improvement of GI assets also contributes to local nature recovery.

With the BID as its champion, Manor Royal has significant potential to continue transforming its environment to achieve these multiple benefits.

The Manor Royal GI Framework strategically positions investment and effort to maximise these outcomes.

Its vision and goals are founded on a robust baseline assessment and a clear understanding of the area's Biodiversity Net Gain (BNG) and Urban Greening Factor (UGF) potential.

The Strategic Aims are meaningful and tailored specifically to Manor Royal and its unique GI context. The Actions identified are multi-faceted and adaptable, allowing for delivery either collectively or independently. Progress can also be monitored and reported over time.

Behind the Framework lies a wealth of research, baseline assessment, mapping, and benchmarking. Further detail on this evidence is provided in the appendix and within the GIS database created as part of this project.

“Through this project we’ve demonstrated that Green Infrastructure (GI) can make a valuable contribution to nature recovery by creating and connecting places rich in wildlife. GI provides natural solutions to challenges such as poor air quality, flood risk and urban heating from climate change, while also offering accessible spaces where people can enjoy the health and wellbeing benefits of contact with nature.”

The Manor Royal Green Infrastructure Framework is the first of its kind for the BID and its community. It represents an ambitious yet pragmatic approach to enhancing GI for the benefit of people, place and nature. It reinforces the benefits delivered by the BID since 2013 and sets out a clear vision for the future.

The Framework is championed by the BID and has been prepared by a multidisciplinary team with expertise in Landscape Architecture, Ecology, Environmental Planning, and Management and Maintenance.





“It is about making it ‘greener’ but it’s not just about that. Evidence supports that protecting and enhancing the green infrastructure also has economic, social and health benefits alongside the all important environmental ones. By investing in this GI Framework and delivering the actions, we can expect to realise multiple returns that benefit Manor Royal and everyone that uses it, including the insects, bees and birds.”

Steve Sawyer, Executive Director, Manor Royal BID.

APPENDIX

In preparing the Manor Royal GI Framework, Allen Scott (authors) and ABEC (co-authors) have carried out detailed studies, surveys and analysis to support the findings and recommendations contained within the report. This has been essential to ensure the Framework is based on robust, reliable and measurable data necessary for establishing the baseline and quantifying the impact of those actions the Manor Royal BID take forward either independently or with its partners.

A list of technical appendices detailing those studies undertaken in producing this framework is available here www.manorroyal.org/GIF. Where possible these will be made available via the Manor Royal website or by contacting the Manor Royal BID office.

