KINGSTONE MEMORIAL GARDEN

WINGS OF RESILIENCE



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CLIENT BRIEF

Kingstone is a large village and civil parish in rural Herefordshire. It is located within the historic area of Archenfield, near the welsh border and the city of Hereford. The village has a rich history and is close in proximity to a number of militarily significant landmarks.

Kingstone parish council have instructed the design team to design and brief a memorial garden or central gathering place for the local community. The design is to develop a currently underutilised area of the village, surrounded by houses on all four sides.

Initial considerations include:

- Tree height should not be a potential danger or nuisance to the surrounding houses.
- Seasonal interest the garden should look good in November when it is anticipated that the village will gather here on Remembrance Sunday.
- Remembrance Sunday 2024 (10/11/2024) The best case scenario would be that the garden is completed by this date.
- Local history It is also recommended that the garden commemorates the history of the place in some way, perhaps nearby RAF Madley.







SITE ANALYSIS

The existing site has one oak tree and two existing walking routes or desire lines (one to connect the end of Whitehouse Drive with Dean Pool, and another around the perimeter of the site). The two natural walking routes through the space will be maintained and enhanced.

The soil is freely draining slightly acid and loamy.

The space is overlooked on all 4 sides by houses.

It is in full sun and SW facing.

The former site of RAF Madley is situated halfway between the villages of Kingstone and Madley. During WWII, No. 4 Signals School RAF, an RAF mountain rescue team and No. 50 Gliding School among others were stationed there.





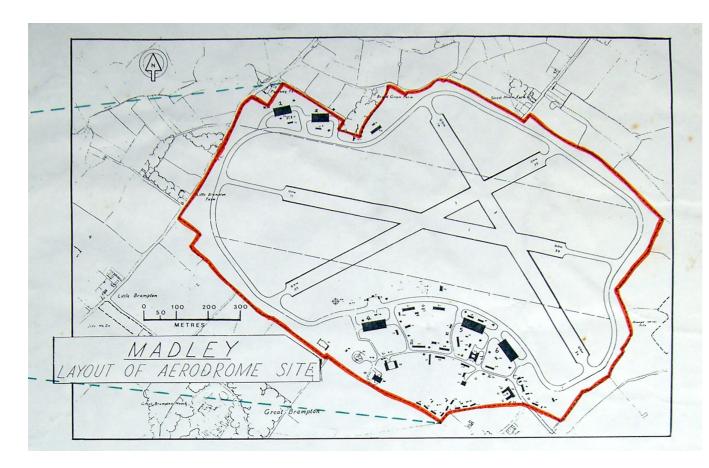


CONCEPT DEVELOPMENT

The concept for the garden is celebrating the past, especially the local RAF WWII history while looking forward to the future.

The **Wings of Resilience** garden literally takes it's shape from the runways of the nearby RAF Madley, to celebrate it's importance in WWII, as pathways. It is planted with specifically selected climate resilient trees with spectacular autumnal colour, giving the village a beautiful backdrop for Remembrance activities to take place within the garden.

The planting has year round interest and nectar for pollinators but will peak in autumn ready for Remembrance Sunday.



Aerial view of RAF Madley



Concept Board



DESIGN RATIONALE

Overview

The Wings of Resilience garden, a new memorial garden in Kingstone, Herefordshire, will not only provide a beautiful central gathering space for villagers on Remembrance Sunday but will drastically improve a well-trafficked but currently underutilised space popular with dog walkers enhancing the aesthetic of the village as well as it's biodiversity.

What is the basis for the design and what are its objectives?

The garden will celebrate the local history of the area by using shapes of the runways of nearby RAF Madley as inspiration for the paths through the space. Whilst remembering the past, the garden will aim to future-proof itself through the careful selection of hard-landscaping materials and climate-resilient plant choice, conscious of the exposed south west-facing nature of the site. The existing oak tree will be retained and the existing natural walking routes through the space will be retained and enhanced. A standing stone memorial surrounded by benches will provide the focal point of the space, an opportunity for local cohesion and shared memory.

Why is it appropriate for this client, brief and site?

Currently there is very little locally that celebrates the historical significance of the area. The garden will provide an opportunity to not only learn about the past through signs and QR codes for more in depth information, but also provide information as to why specific trees and plants have been chosen for the space and the benefits they provide to local ecosystems such as biodiversity increase, carbon storage and drought-tolerance.

In addition the hard landscaping materials have been chosen for their sustainability credentials, resilience in a public space and low maintenance requirement.

Conscious that the space is overlooked on four sides by houses, trees will be used to offer a sense of privacy to the central area of the garden at the memorial yet there will be sight lines throughout the garden to disincentivise groups from gathering or anti-social behaviour from taking place. No tree will be planted within 2m of the boundary to reduce risk of root disturbance and protect from falling branches. In addition, specific cultivars have been chosen to not grow too large for the space.

Finally, the garden will peak in autumn in time for Remembrance Sunday when it is intended that villagers will gather at the memorial and lay wreathes. The trees will be in full autumn colour and look splendid providing the perfect space to gather and remember.

How did you achieve it?

The best scenario will be for the garden to be ready for Remembrance Sunday 2024 (10/11/2024). However, tree planting season is ideally between Nov-Mar as without huge amounts of irrigation, it is likely that the trees would fail if planted outside this window. It is anticipated that the garden would take less than one month to build so, assuming funding is allocated, October 2024 would work for building the garden with trees going into the ground in November and ready in time for Remembrance Sunday.



ENVIRONMENTAL CONSIDERATIONS

Huge Increase in Biodiversity

The careful selection of trees and planting will ensure year round nectar for pollinators as well as habitat for insects. The species-rich turf will also greatly increase the size of the biodiverse area within the garden as opposed to a traditional monoculture lawn.

Resilient Plants

All plants and trees in this garden have been meticulously selected for their resilience and drought tolerance, ensuring they thrive without the need for constant irrigation. This sustainable approach not only conserves water but also creates a self-sustaining ecosystem, where each plant contributes to the overall health and balance of the environment.

Carbon Storage

20 new trees will be planted in the garden and with each tree absorbing up to 21kg of carbon per year when fully grown, this will be important for this area of the village where limited trees remain after house building activities.

Careful Selection of Hard Landscaping Materials

All hard landscaping will be sourced as locally as possible, cutting down on CO2 emission from the transport of materials. Where possible recycled materials will be used for path sub base. All specified hard landscaping materials are also permeable and SUDS compliant.



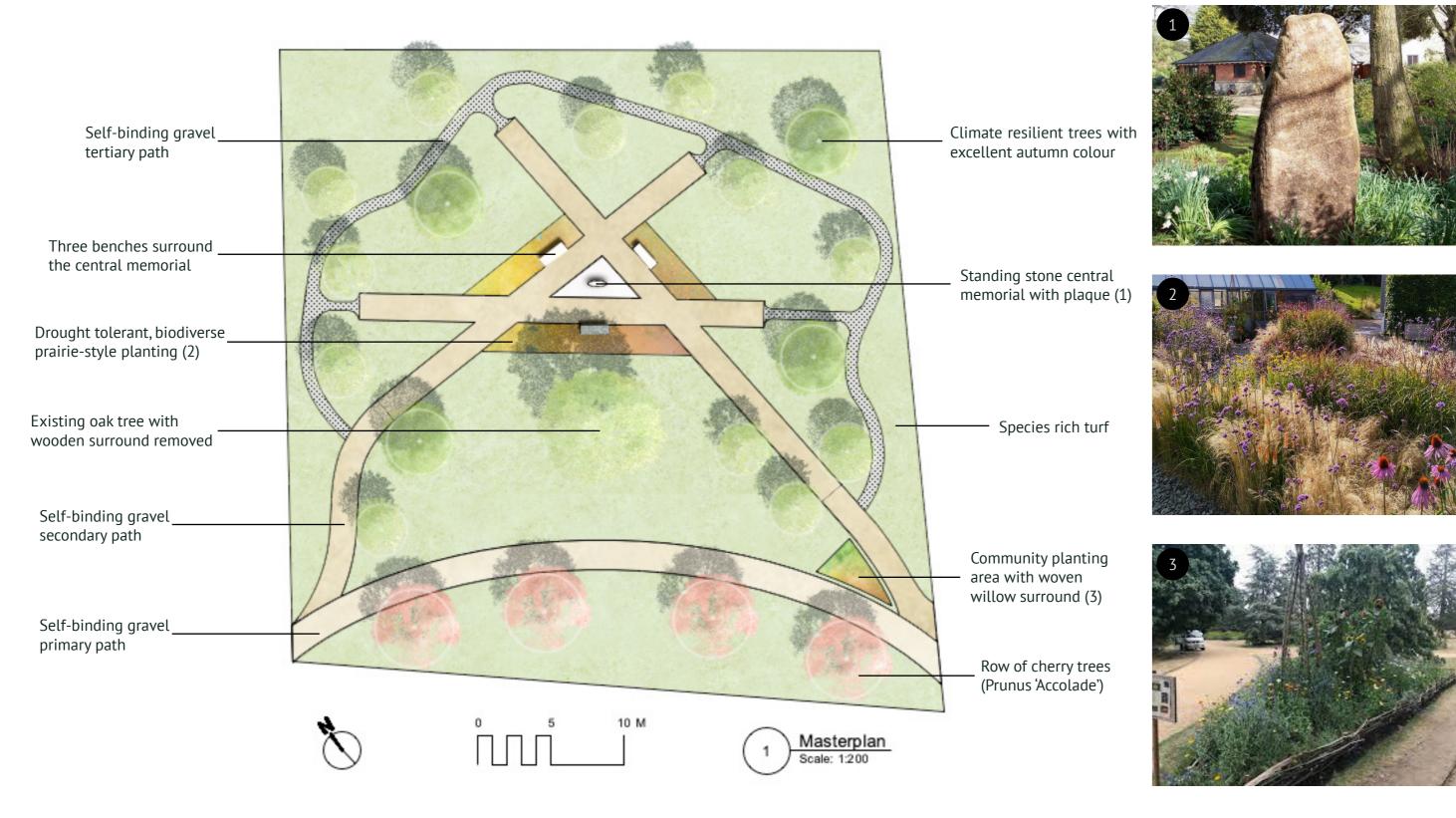








MASTERPLAN





BILL OF MATERIALS —

Element	Quantity	Notes
Path 1 - Self-binding gravel path	94m²	Soil and small stone particles are usually washed off gravel, but in this form they are retained and help bind the gravel to form a hard wearing surface that is easy to walk on.
Path 1 metal edging	100m	Metal edging will add formality to this element of the garden.
Path 2 - Self-binding gravel path	197m²	Soil and small stone particles are usually washed off gravel, but in this form they are retained and help bind the gravel to form a hard wearing surface that is easy to walk on.
Path 2 metal edging	219m	Metal edging will add formality to this element of the garden.
Path 3 - Self-binding gravel path (no edging)	74m ²	A less formal tertiary path to allow for exploration and the feeling of being in a more natural setting with soft wood chip underfoot.
Trees	20	Trees are incredibly important for climate resilience, carbon storage, species diversity and other ecosystem benefits, therefore they are central to this design. Ideally these should be bought as medium sized trees to create immediate impact in the space but not so big that they are trickier to get established.
Planting areas around Monument	49m²	Planting of resilient grasses and perennial flowers, adding to the biodiversity of the site, and will stand through winter adding structure and continued privacy to the space immediately surrounding the memorial. This will be cut down in early Spring and mulched. No other maintenance should be required.
Monument (Standing Stone)	1	A standing stone with a plaque will be a central meeting point of the village for Remembrance Sunday. Mid Wales Stone seem to supply a range of suitable options.
Triangular area surrounding monument	9m²	Detailing tbc when stone is selected. This area will be hard landscaped to create a solid area for wreath laying and gathering on Remembrance Sunday. This detailing will be repeated underneath the benches.
Benches	3	Suggest timber benches from a local supplier. Should be fixed to the ground.
Community Planting Area	8.5m ²	Suggest a small area at the entrance to the garden for local people to garden together. Could be surrounded by a small (foot tall) woven wicker boundary.



TREE PALETTE —





Koelreuteria paniculata



Liquidambar 'Moraine'



Malus x zumi 'Professor Sprenger'

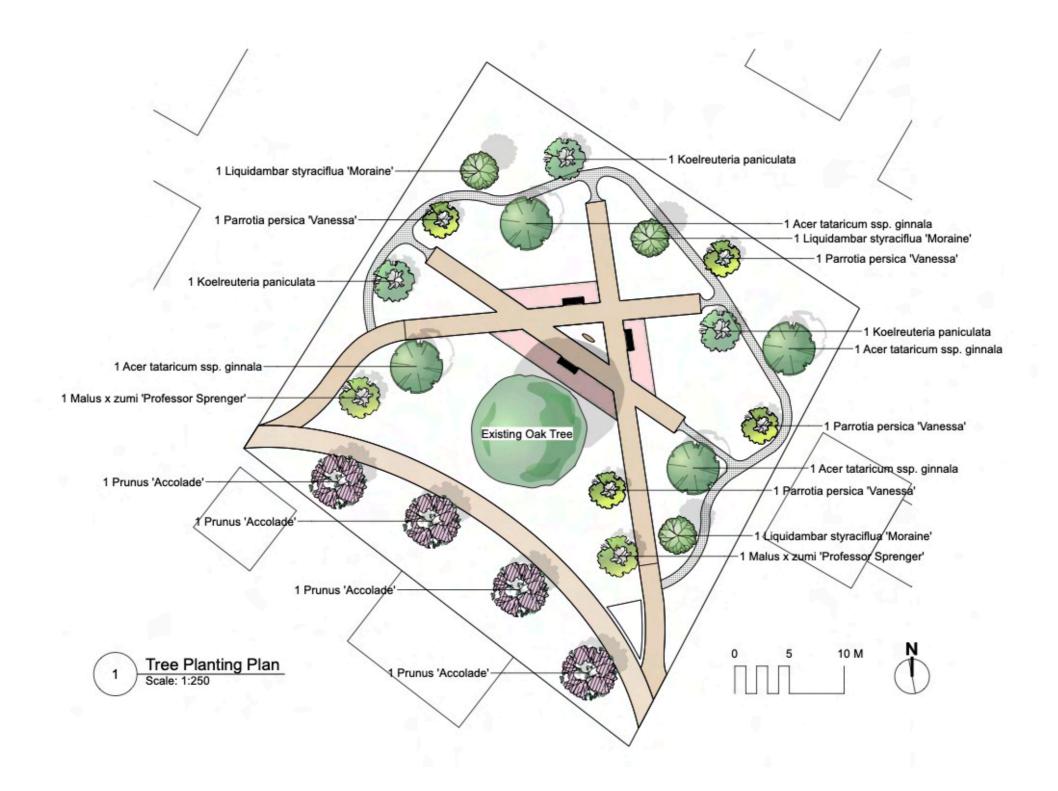


Parrotia persica 'Vanessa'



Prunus 'Accolade'

TREE PLANTING PLAN



TREE INFORMATION —

Botanical Name	Picture	Description	RHS	Growing Conditions	Hardiness	Height	Spread	Time to Maturity	Gardening Notes
Acer tataricum subsp. ginnala		A bushy deciduous shrub or small tree with deeply 3-lobed leaves which turn deep red in autumn; small cream flowers are followed by red fruit		Any soil Any pH Moist but well-drained, well-drained Full sun or partial shade Any aspect Sheltered	H7	4-8m	4-8m	20-50 years	Offers fruits and flowers Some drought tolerance Stunning autumnal colour
Koelreut <mark>eri</mark> a paniculata		An elegant small deciduous tree. Leaves pinnate, pinkish in spring, turning yellow in autumn. Small yellow flowers in conspicuous large panicles, followed by ornamental bronze fruits	POLANTS FOR SHOW IN A SHOW	Any soil Any pH Moist but well-drained, well-drained Full sun South, west or east facing Exposed or sheltered	H5	8-12m	8m +	20-50 years	Heat and drought tolerant Late flowers appreciated by nectar- gathering insects Spectacular seasonal qualities
Liquidambar styraciflua 'Moraine'		A large, hardy and narrow, pyramid-shaped deciduous tree with glossy green star-shaped leaves which turn to brilliant shades of purple, red, yellow and orange in the autumn		Any soil Any pH Moist but well-drained Full sun or partial shade South, west or east facing Exposed or sheltered	Н6	10-12m	3-3.5m	50+ years	Tolerant of warm and periodically dry conditions Easy to establish and fast growing in warm microclimates Spectacular autumn colour Can tolerate short periods of flooding

TREE INFORMATION —

Botanical Name	Picture	Description	RHS	Growing Conditions	Hardiness	Height	Spread	Time to Maturity	Gardening Notes
Malus x zumi 'Professor Sprenger'		A dense, compact, rounded, deciduous tree, with mid-green foliage turning yellow in late autumn. The very fragrant flowers open white from pink buds in mid- and late spring. Followed by large quantities of small, round, yellow and orange fruit that hang on into winter		Chalk, sand, clay soil Acid or neutral soil Well-drained, moist but well-drained Full sun or partial shade Any aspect Exposed or sheltered	Н6	4-8m	4-8m	10-20 years	Valuable for biodiversity due to generous flowers and fruit Beautiful seasonal quality Disease resistant
Prunus 'Accolade'		A small deciduous tree of spreading habit, with ovate leaves turning orange and red in autumn. Flowers to 4cm in width, semi-double, opening light pink from deeper buds	AWARDOF LINE OF STREET	Loam, sand, clay soil Any pH Well-drained, moist but well-drained Full sun Any aspect Exposed or sheltered	Н6	4-8m	4-8m	10-20 years	Spectacular seasonal qualities One of the earliest flowering cherries
Parrotia persica 'Vanessa'		A small, upright tree with attractive, flaking bark and small red flowers on bare stems in late winter and early spring. The young foliage is red and bronze turning green for summer then producing spectacular autumn colour of red, orange and purple	AWARD OF LINE STATE OF LINE ST	Any soil Any pH Well-drained, moist but well-drained Full sun South, west or east facing Sheltered or exposed	H6	8-12m	2.5-4m	20-50 years	Heat and drought tolerant when established Tolerates air pollution Spectacular autumn colour and early spring flowering

PLANT SCHEDULE - TREES —

Kingston Memorial Garden - Plant Schedule (Trees)

Botanical Name	Form	Girth	Size	Root type	Quantity	Price Each	Total Price	Nursery
Prunus 'Accolade'	Standard		3-4m	CG	4			Barcham
Acer Ginnala	Standard		3-4m	CG	4			Barcham
Koelreuteria paniculata	Clear Stem	18-20	150kg	RB 60cm	3			Van Den Berk
Liquidambar styraciflua 'Moraine'	Clear Stem	18-20	150kg	RB 60cm	3			Van Den Berk
Parrotia persica 'Vanessa'	Clear Stem	18-20	150kg	RB 60cm	4			Van Den Berk
Malus x zumi 'Professor Sprenger'	Clear Stem	18-20	150kg	RB 60cm	2			Van Den Berk
					20			

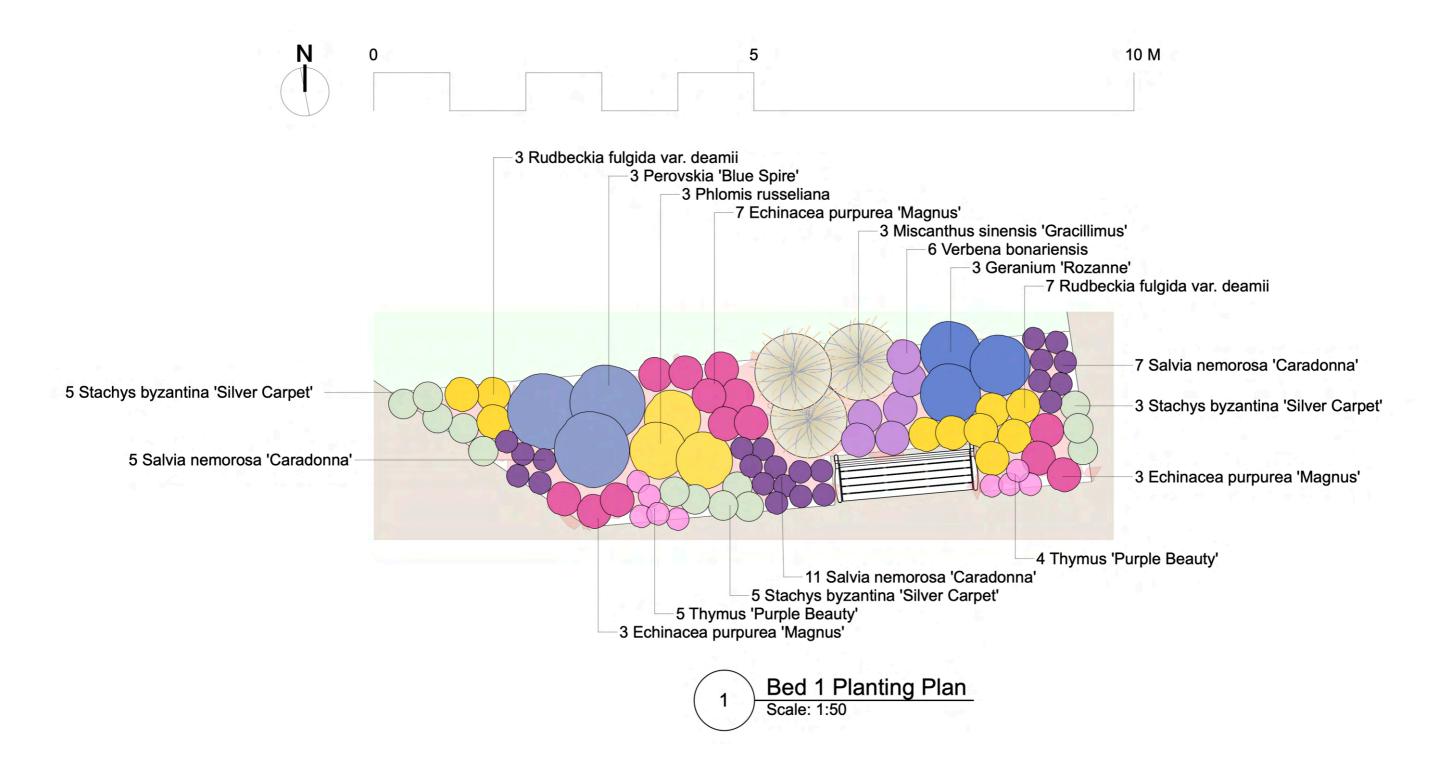
PLANTING PALETTE ——



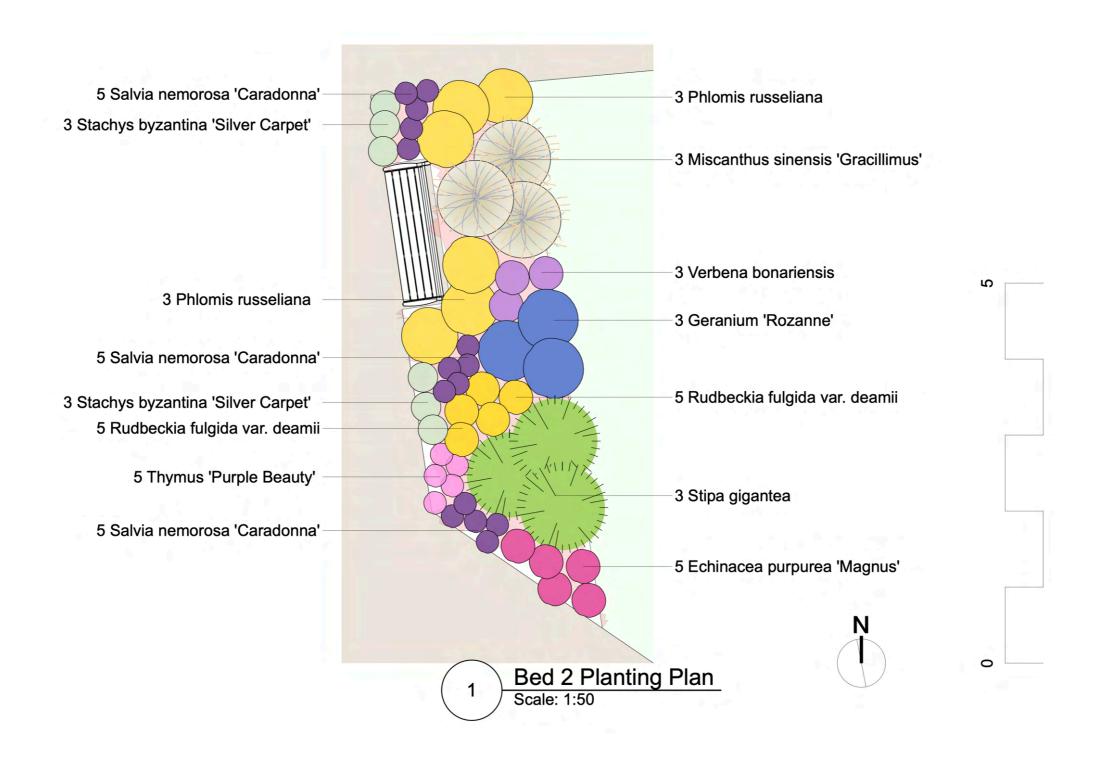
PLANTING PLAN



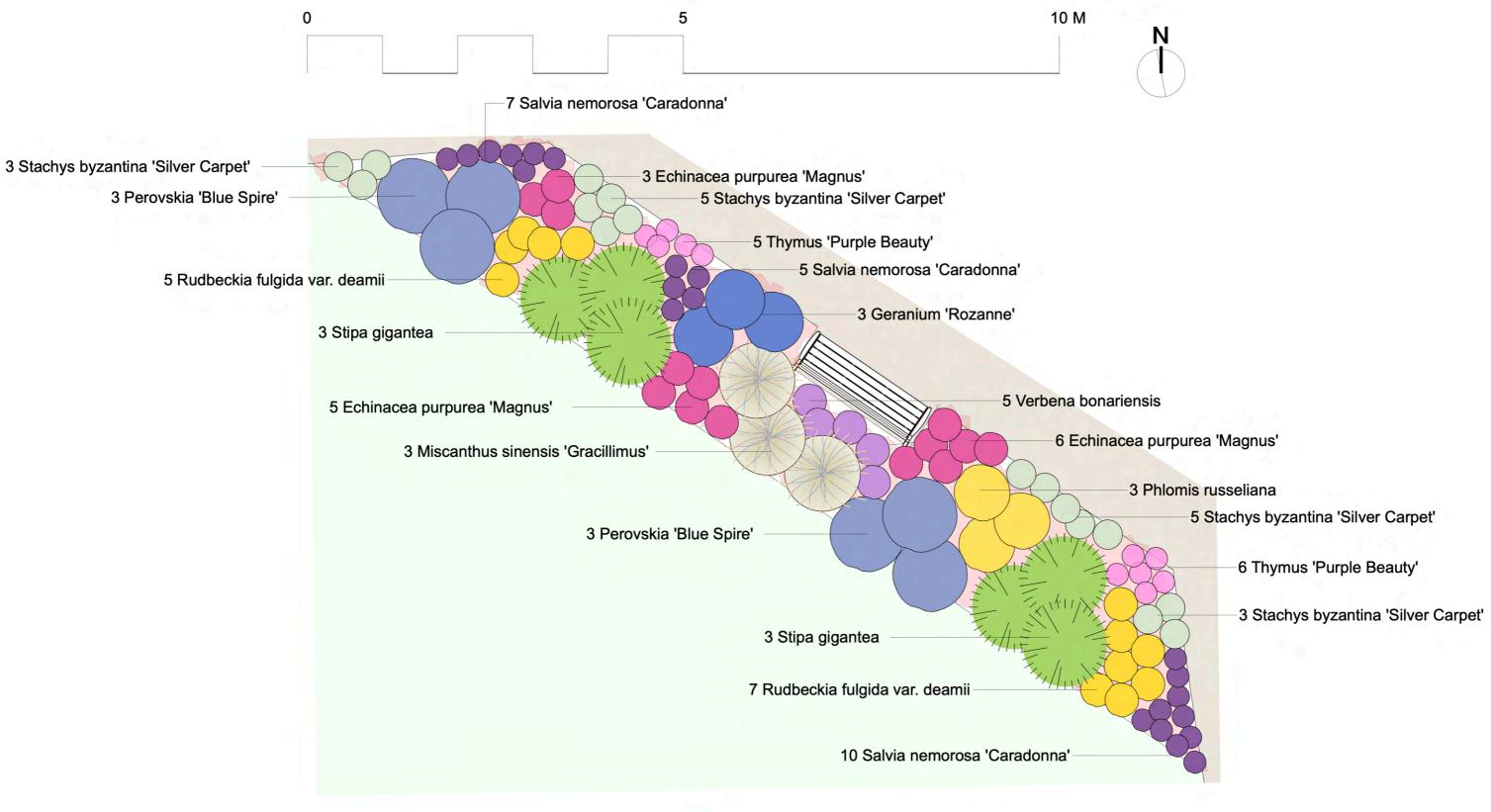
PLANTING PLAN BED 1

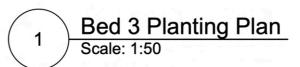


PLANTING PLAN BED 2



PLANTING PLAN BED 3





PLANT SCHEDULE - HERBACEOUS

Kingston Memorial Garden - Plant Schedule (Herbaceous)

Botanical Name	Height	Spread	Pot Size	Quantity	Price (ex VAT)	Price (inc VAT)	Total Price
Miscanthus sin. Gracillimus	130cm	120cm	2L	9			
Stipa gigantea	250cm	120cm	2L	9	†		
Verbena bonariensis	200cm	45cm	2L	14	Ť		
Echinacea purpurea Magnus	100cm	45cm	2L	32			
Salvia nemorosa Caradonna	50cm	30cm	2L	60			
Perovskia atriplici. Blue Spire	120cm	100cm	1.5L	9			
Geranium Rozanne	60cm	80cm	2L	9			
Phlomis russeliana	90cm	75cm	2L	12			
Rudbeckia fulgida var. deamii	60cm	45cm	2L	27			
Stachys byzantina Silver Carpet	20cm	45cm	2L	35			
Thymus Purple Beauty	5cm	30cm	9cm	25			
			Total	241			
Bulbs							
Allium sphaerocephalon	90cm	8cm		150			
Allium siculum	120cm	10cm		150			
Tulipa turkestanica	30cm	10cm		300			
Crocus tommasinianus	10cm	3cm		300			
			Total	900	Ť		
					Ť		
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