Joseph Norton Academy Deighton Landscape Statement

19^h April 2024 JNA-COL-XX-XX-DOC-005_Rev03 for Planning



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DESIGN STRATEGY

A SCHOOL IN NATURE

The landscape concept for Joseph Norton Academy has been developed in close liaison with Kirklees Council, Frank Shaw Architects, the school trust, together with arboricultural and engineering advice.

The landscape concept design seeks to complement the function and character of the proposed building, creating a holistic site that supports the overarching educational & pastoral needs of pupils. The external environment will play an essential role in providing a welcoming, safe, calm, attractive and fully inclusive environment for all pupils, staff and visitors, and will offer a valuable resource that can be accessed and utilised to meet relevant aspects of each pupil's EHCP.

"The more green that people see throughout their day, the greater the help to calm and regulate"

Shaun Kiernan, Wellspring Academy

The design has been developed in accordance with the DfE's BB104 guidance and draws out the unique qualities of a site - blessed with attractive mature vegetation, long views - that will work in concert with an educational philosphy that includes a farm and forest school at its heart.

KEY PRINCIPLES

The landscape concept includes:

- An identity shaped by Outdoor Learning Spaces and Forest School
- A secure site with appropriately designed boundaries, ensuring the safety of pupils, staff and visitors
- Inclusive, level access throughout the site
- Carefully designed vehicle routes and parking, to facilitate efficient and safe drop-off and pick-up close to the building's main entrance and individual Key Stage entrances
- Outdoor classroom spaces, physically connected to indoor classrooms
- Safe, intuitive and legible routes around the site
- Incorporation of carefully chosen trees, shrubs and lawn areas throughout the site, to create a calm, naturalistic setting for all
- Physical and visual links to the surrounding landscape context, to create wildlife corridors across the site, and 'borrowed' views beyond the site boundary



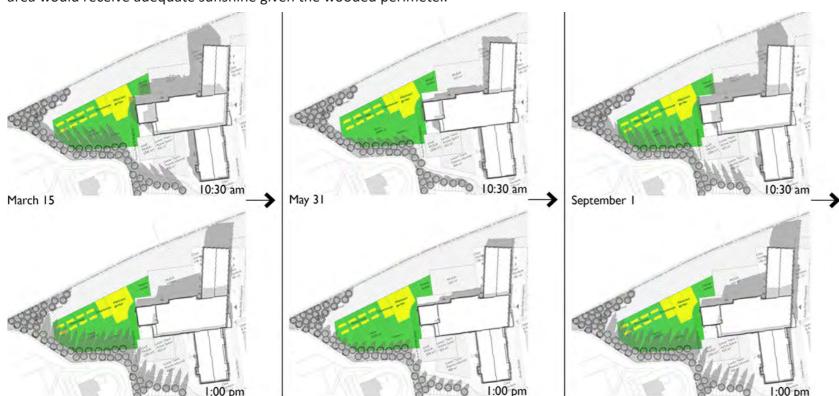


SITE ANALYSIS - TOPOGRAPHY & SOLAR STUDY

The characteristics of the site and surrounding area have informed the location and orientation of the proposed building and landscape, leading to a site selection to the west of available land. This avoids and sits above the two large terraces with sports fields.



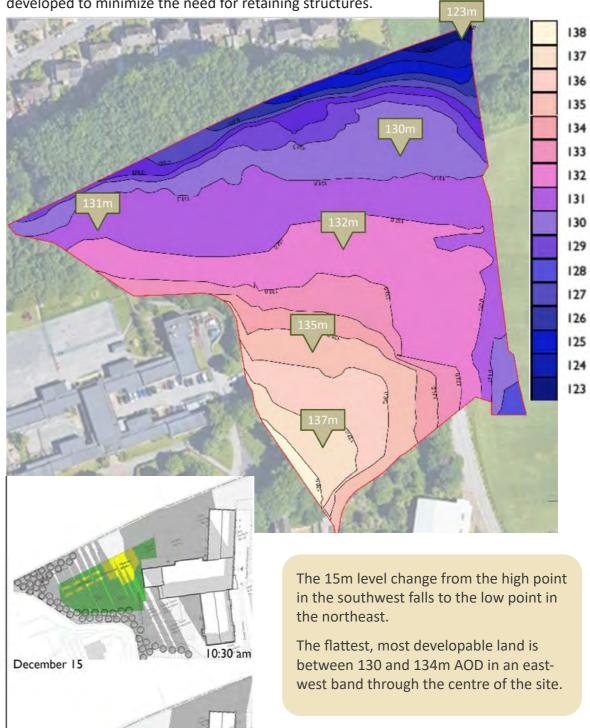
Solar studies were used early in the design process to provide assurance that the crop growing area would receive adequate sunshine given the wooded perimeter.



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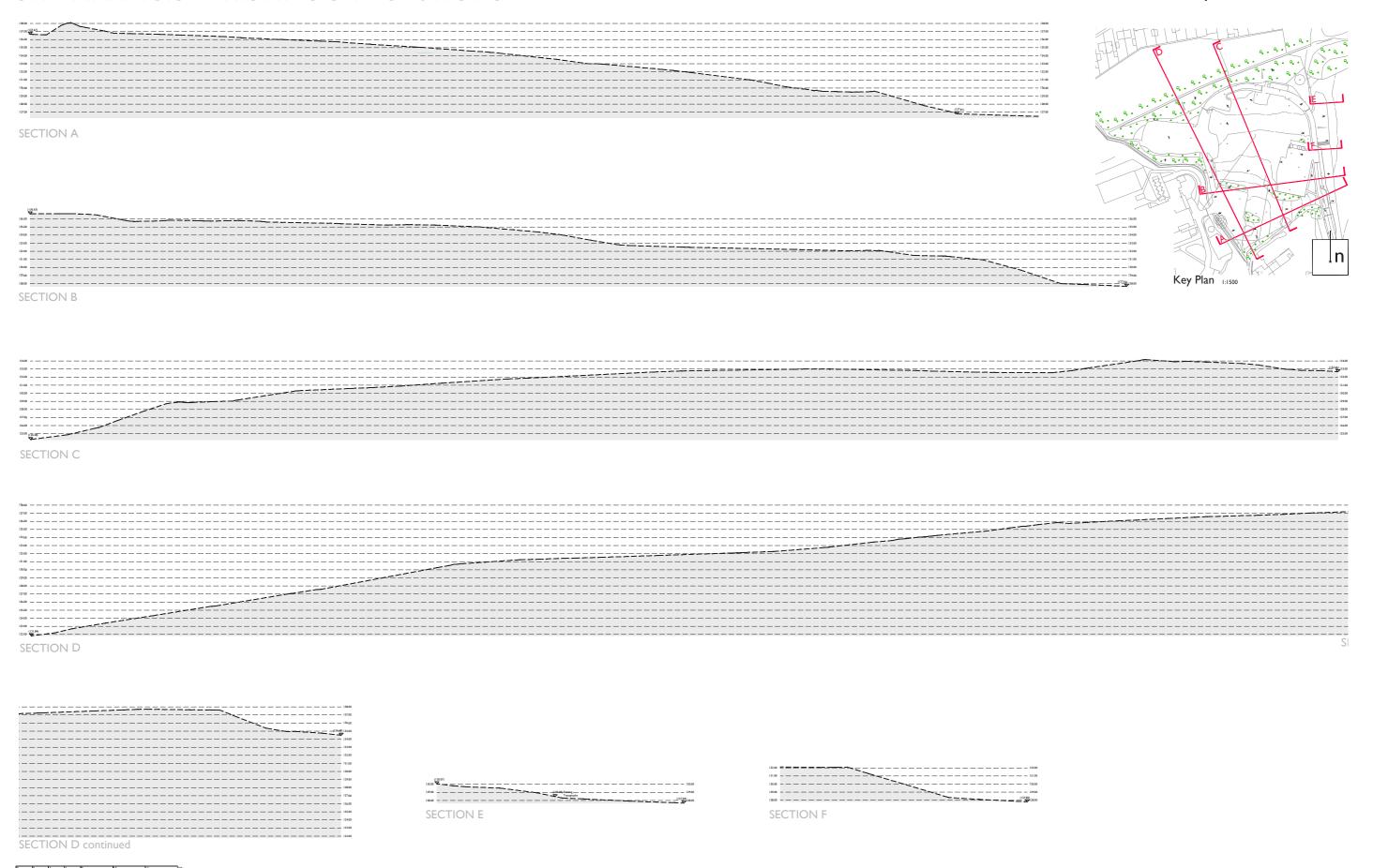
Within the site, there is a significant level change with a largely north-easterly aspect, and two principal terraces that drop away sharply to the north. The design has been developed to minimize the need for retaining structures.



SITE ANALYSIS - EXISTING SITE SECTIONS

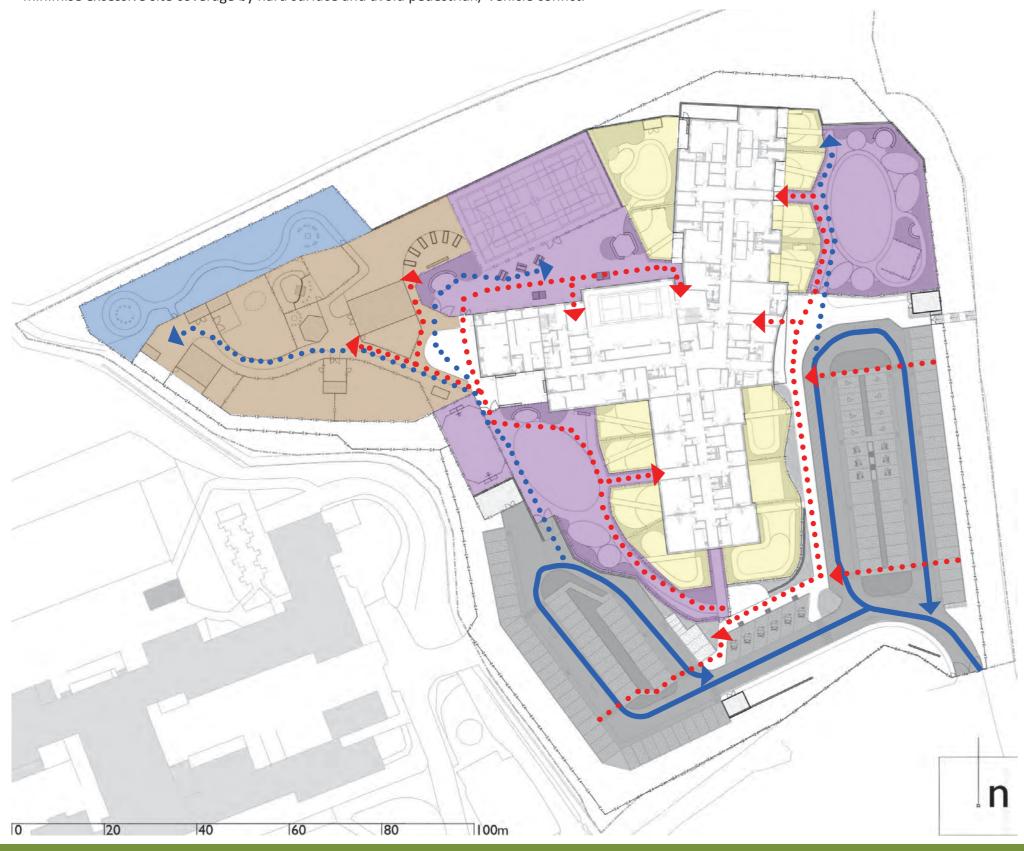






ACCESS STRATEGY

Movement into and around the site is safe, intuitive and legible. The site layout separates vehicles from key pedestrian routes and spaces; the former is located to the east/south and the latter to the west/north. These zones are semi-public and private, respectively. Morning drop-off and evening pick-up has been prioritised to the front of the site to minimise excessive site coverage by hard surface and avoid pedestrian/ vehicle confict.







A GREEN SETTING

The site has been organized into zones which seek to 'weave' nature into the fabric of the site and its daily routine, so as to maximise the beneficial impact of vegetatiom on pupils.



1 Arrival Orchard





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A welcoming start to the day with minimal stress Spring blossom, Summer leaves & Autumn colour

Orchard is part of forest school concept
Opportunities for food production and

Joseph Norton



positive associations

(2) Outdoor Learning Area & Vocational Space





"Pigs are for therapy not bacon"

- Part of the daily routine at all ages
- Transfer and expand the current facilities
- Security of livestock is vital
- Solar study to locate crop growing areas
- Polytunnel and raised beds
- Composting
- Insect hotels
- Vocational space as part of the approach

4 Woodland Frame



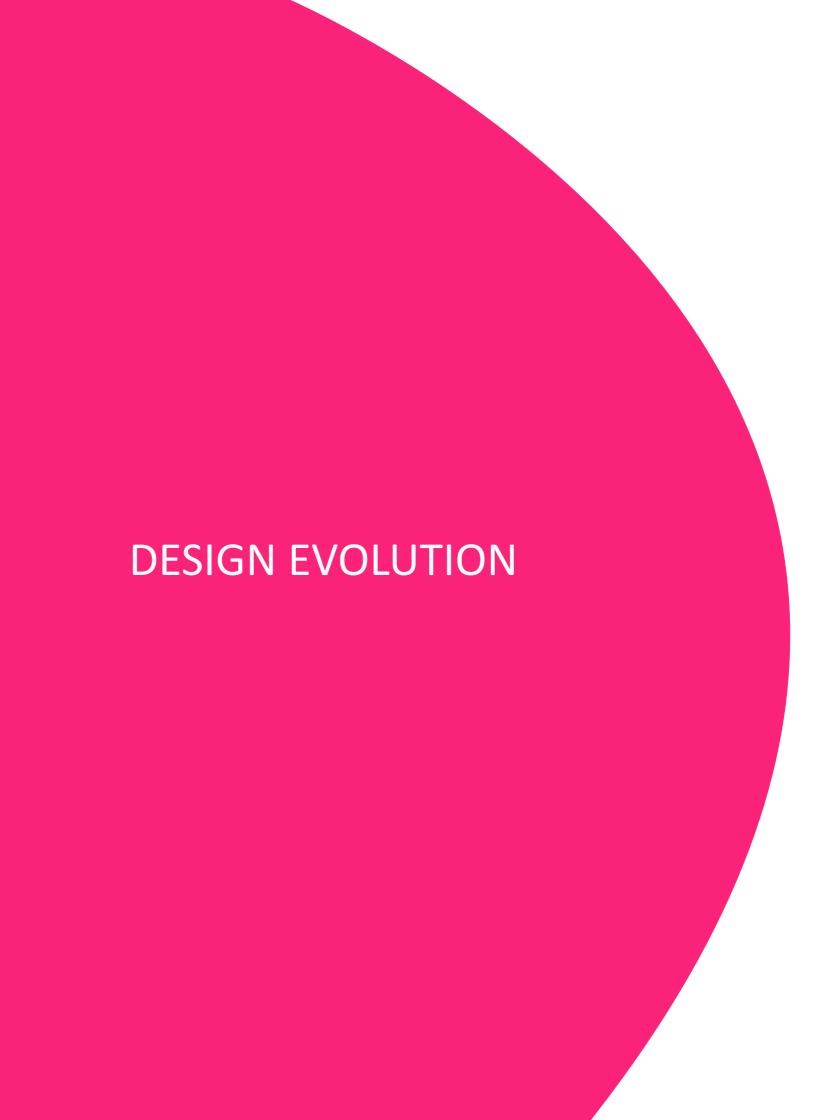


(3) Forest School





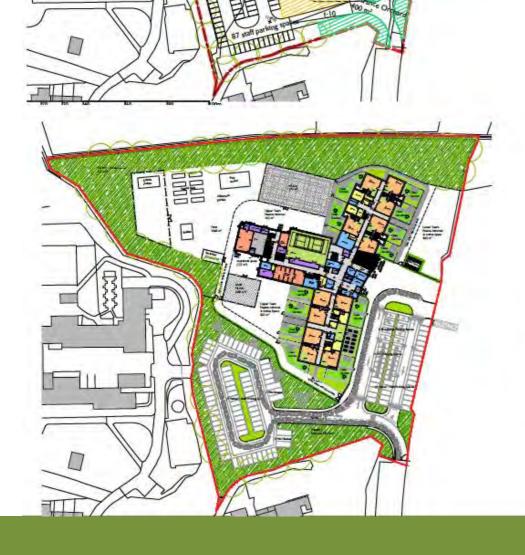
- Borrow the mature wooded surroundings to give character and warm embrace to the school
- Embed activities such as slides
- Sensory and calming walks forest bathing
- Settings for outdoor learning
- Nudges for activity
- Screen fencing wherever possible
- Part of the daily routine at all ages
- Biodiversity enhancement with woodland



DESIGN EVOLUTION

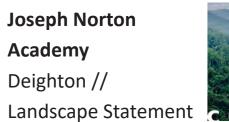
Development of the landscape masterplan has been a highly iterative process between the educational operator including head teacher and farm manager, Kirklees Council, architecture, ecology, arboriculture, civil engineering, mechanical & electrical engineering, transport and cost planning with the landscape design.

To date there have been 31 revisions of the landscape masterplan so as to develop the optimal supportive layout for students welfare, wellbeing and operational requirements.













URBAN GREEN SPACE

URBAN GREEN SPACE

As can be clearly understood from this Landscape Statement, the proposed school has been designed with planting and green infrastructure at the heart of its ethos so as to create a green supportive setting for the highly sensitive users of the school for whom environmental triggers can significantly determine their wellbeing and behaviour both positively and negatively.

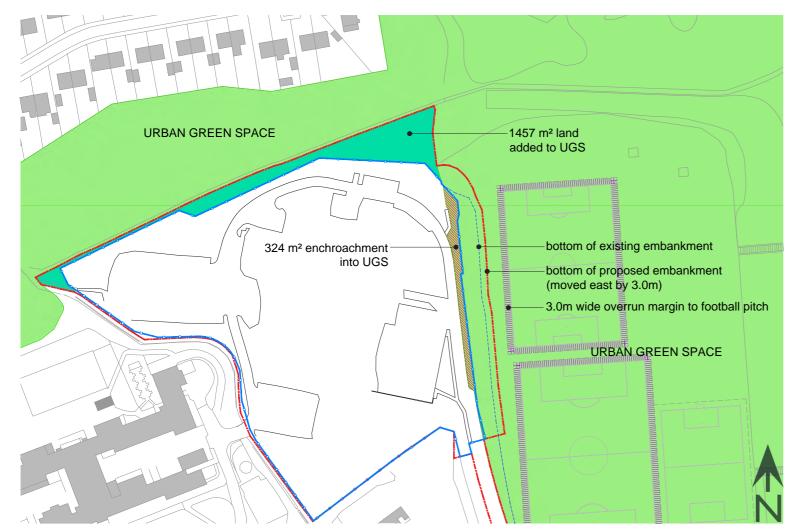
We have sought to develop an integrated landscape – architectural – transport - civil engineering scheme that minimises these environmental triggers for pupils.

In order to meet this brief, it was however necessary to incorporate into the site a 324m2 slither of Kirklees' Urban Green Space (UGS) of average width 3.5m on the bank along the eastern boundary and currently of use with the adjacent recreational field. This proportion of bank would be primarily utilised for planting but also includes the boundary fence, an incremental edge of play areas and the eastern extent of car parking space along the eastern boundary. The boundary fence would be located at the top of the bank so as to minimise the take of UGS with a line of trees and planting outside of the fence so as to minimise potential visual impact.

In return, a zone of housing allocation to the northeast of the site has been made available to become UGS which offers back 1,457 m2, nearly 4.5 times the area encroached into.

Area of UGS gained = 1,457 m2 Area of UGS lost = 324 m2

NET GAIN = 1,133 m²



Joseph Norton Academy Deighton // Landscape Statement



Why is the encroachment necessary?

There are multiple pressures on every square metre of the proposed Deighton site with particularly onerous quantitative requirements with arrival, drop off, pick up, circulation, auto tracking and parking at the front of the school which must be balanced with the qualitative needs of a highly sensitive pupil group with social emotional and mental health needs and vulnerable to environmental triggers.

Teachers of the school find that if the day starts well for pupils, it may continue well, however if it starts badly, the whole day is likely to go badly with compounded impacts on the wider school community. Calming and 'regulation' of pupils is therefore essential and evidence dictates that the greener the school environment is, the calmer pupils are. As such an approach has been taken that creates a green experience both to arrival at the school, offering a softened car park with some planting and green outdoor spaces and outlooks for pupils.

In addition, accessibility for less physical able people has been a major consideration in site design. So as to achieve accessible gradients around the school significant earthworks have been required. To achieve an optimal balance of retaining walls and minimising the cut and fill balance so that bulky material is neither imported or exported from site. In terms of the playground to the northeast of the site, so as to achieve DDA compliant gradients falling away from the school, incursion into the UGS was required to the east. Due to steep gradients to the north and complying with the area requirements of BB104, the playground could not extend north. In addition, the whole building could not be moved west as this would squeeze all the area requirements to the west which would then not fit on site.

To date, the masterplan has been revised 37 times so as to balance the often conflicting requirements. This process tested many external space, car parking and drop-off options but ultimately as a last resort the only workable option was to extend east.

A number of measures have been taken to minimise the encroachment into the UGS, including the following:

- Locating the fence at the top of the bank, so the balance of the bank could be used as part of the adjoining playing fields;
- Use of gentle gradients ≤ 1 in 3 so that the bank stays suitable for lawnmower maintainence and could continue to be used as a spectator area.
- Keeping a distance of > 5.0m from the bottom of the bank to the overrun margin of football pitches.

The physical changes

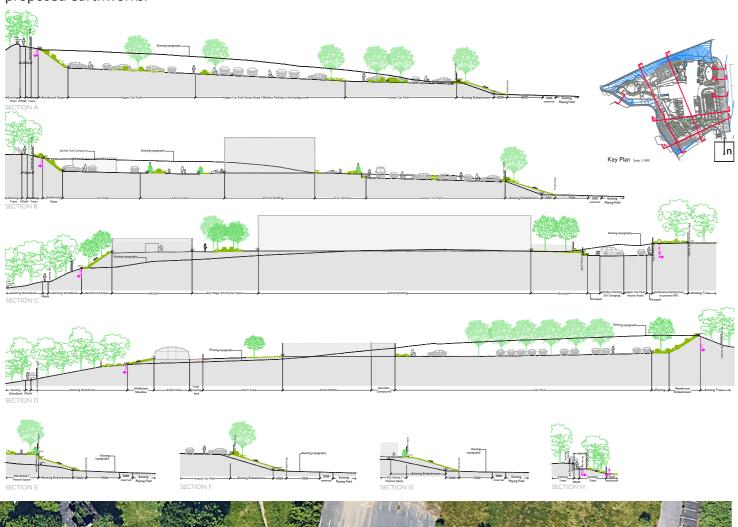
The diagram to the left illustrates the extent of the encroachment whilst the plan below demonstrates how this has been minimised:



URBAN GREEN SPACE

The physical changes

The sections below compare the existing and proposed bank profiles, giving a thorough coverage of the proposed earthworks.





The bank in question, can clearly be seen on the above aerial photograph to the east of the existing road.

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It is understood that the bank is used by spectators for events on the adjacent flat land. This use, as well as the 3.0m width overrun requirement around the football pitch would not be impacted by the moving of the 1 in 3 slope further to the east. The planting of a line of broadleaved parkland trees along the top of this this slope would both enhance the visual amenity of the bank, assist with biodiversity and provide shade on hot days during events.

Furthermore, access between top, bottom and along the bank would be enhanced through the repair and reprovision of the existing steps.

In terms of visual impact from adjacent and UGS, the reduction of the informal flat area between bottom of bank and football pitch from former average 11.5m to 8.0m is judged not to be perceptible. The addition of a 2.4m fence at the top of the bank would be partly screened by a 2.8m wide native shrub planting strip to create a 'green edge', and the line of native broadleaved trees that are indicative of recreational parkland at the southern end of the bank.

It is noted that by definition:

'Urban green spaces perform an important function by providing visual breaks in built up areas, contributing to the local character and attractiveness of towns and villages and providing important wildlife habitats'

When considering the local UGS, a measure is taken as per the above thumbnail view. The extension into the UGS equates to 324 m2 of the local 100,000 m2, which a is a loss of just over 0.3%.

In summary it is considered that the actual loss of UGS would not be significant to the material purpose or functioning of the UGS in that :

- Overwhelmingly more land would be introduced into UGS than removed;
- 2. Land on the current bank which is not usable recreational space;
- 3. It is only occasionally used for spectator use in comparison to its benefit as green infrastructure that would offer a calming setting to the users of the SEMH;
- 4. Visually, the loss of UGS would be imperceptible in context of the wider UGS.

ECOLOGICAL MITIGATION

ECOLOGICAL MITIGATION

Arbtech Consulting Limited were instructed by Frank Shaw Associates Limited to undertake a Preliminary Ecological Appraisal and an Ecological Impact Assessment (EcIA) of the site. Key recommendations have been incorporated into the landscape scheme and the key findings of the EcIA follow:



Feature	Foreseen impacts	Recommendations Measures required to adhere to guidance, legislation and planning policies.		
Designated sites	No impacts to designated sites are anticipated due to the distance of the proposed development from such sites (where known) as well as the semi urban location of the site with surrounding physical barriers.	Best practice measures to minimise the possibility of pollution and tree damagement be implemented during construction.		
	As it stands no plans have been produced indicating the location of the development. No direct impacts to any notable habitats are anticipated as a result of the proposed development. However, due to the proximity of the site to deciduous and ancient woodland, indirect effects such as pollution or tree damage could occur during construction. The proposed development will result in the loss of areas of managed and unmanaged grassland in addition to areas of scrub. This is likely to have a minimal impact on biodiversity due to the relatively low ecological value of these habitats and their semi isolated nature on the site.	Best practice measures to minimise the possibility of pollution and tree damage must be implemented during construction. The Local Planning Authority (LPA) may request an Arboricultural Assessment to determine impacts on trees.		
Amphibians	Areas of unmanaged grassland and scrub will likely be removed during construction. The loss of such habitats is likely to be inconsequential to local amphibian populations owing to their low value and the presence of more extensive habitat locally. However, site clearance could result in the death or injury of common amphibians, if present.	A precautionary working method will be implemented for common amphibians during construction.		
Reptiles	Areas of unmanaged grassland will likely be removed during construction. The loss of such habitats is likely to be inconsequential to local reptile populations owing to their low value, semi isolated nature and the presence of more extensive habitat locally. However, site clearance could result in the death or injury of reptiles, if present.	Owing to the nature of the proposed development and the low potential for impacts to reptiles, further surveys are considered to be disproportionate. A precautionary working method will be implemented during construction.		
Foraging and commuting bats	It is anticipated that the proposed development will not result in the removal of any habitats which could be used by foraging or commuting bats. The proposed development may include the use of lighting which could spill on to bat roosting, foraging or commuting habitat and deter bats from using these areas.	A low impact lighting strategy will be adopted for the site during and post-development.		
Badger	It is anticipated that the woodland areas will not be impacted by any development. It is likely that areas of scrub and unmanaged grassland will be removed during construction. The loss of such habitats could result in a reduction in badger habitat and could result in the fragmentation of the local landscape. Furthermore, construction activities could result in the death or injury of badgers, if present.	Owing to the nature of the proposed development and the low potential for impacts to badgers, further badger surveys are considered to be disproportionate. A precautionary working method will be implemented during construction.		
Hedgehog	Areas of grassland and scrub will likely be removed during construction. The loss of such habitats is likely to be inconsequential to local hedgehog populations owing to their low value and the presence of more extensive habitat locally. However, construction activities could result in the death or injury of hedgehogs, if present.	A precautionary working method will be implemented during construction.		
Birds	Areas of scrub will likely be removed during construction. The loss of such habitats is likely to be inconsequential to local bird populations owing to their low value and the presence of more extensive habitat locally. However, the proposed development could result in the destruction or the disturbance and subsequent abandonment of active bird nests.	Works should be undertaken outside the period 1st March to 31st August. If this timeframe cannot be avoided, a close inspection of the tree/vegetation should be undertaken immediately, by qualified ecologist, prior to the commencement of work. All active nests will need to be retained until the young have fledged.		

ECOLOGICAL MITIGATION STRATEGY

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Existing Woodland Frame

- To be retained.
- Improve existing moderate quality woodland with adequate understory planting and seeding.
- Proposed extension of the current woodland area by adding new native tree planting and undergrowth seeding to its fringe.
- Reduce construction impact to woodland and wildlife. Timing for vegetation removal works shall avoid the bird breed ing season from March till end of August. If this timeframe cannot be avoided, a qualified ecologist shall undertake a close inspection prior to the commencement of work. All active nests will be retained until fledging.
- Proposed Bird Nesting Boxes (8 no.) and Bat Boxes on existing trees.
- Proposed habitat creation/ enhancement for species like bats, badgers, hedgehogs & birds (e.g. log piles, rubble piles, dense coverts).

Class Gardens

- Proposed Bee/ Bug hotels and Bird feeding stations
- Proposed Bird Nesting and Bat Boxes to building
- Hedgehog gaps in the fences
- Low impact lighting strategy for the site during and post-development.



Active/ Passive Outdoor Spaces

- Proposed Bee/ Bug hotel
- Proposed bird nesting and bat boxes on trees
- Trees & hedges to screen off/ mitigate human activity impact on adjacent wildlife habitats
- Proposed Native flowering & fruiting trees to attract pollinators and provide habitat and foraging opportunities for birds
- Hedgehog gaps in the fences
- Proposed Bird boxes to existing and proposed trees
- Trees & hedges to screen/ mitigate human activity impact on wildlife habitats
- Proposed Native flowering trees to attract pollinators and provide habitat and foraging opportunities

Proposed fruit trees to attract pollinators and provide habitat and foraging opportunities for birds

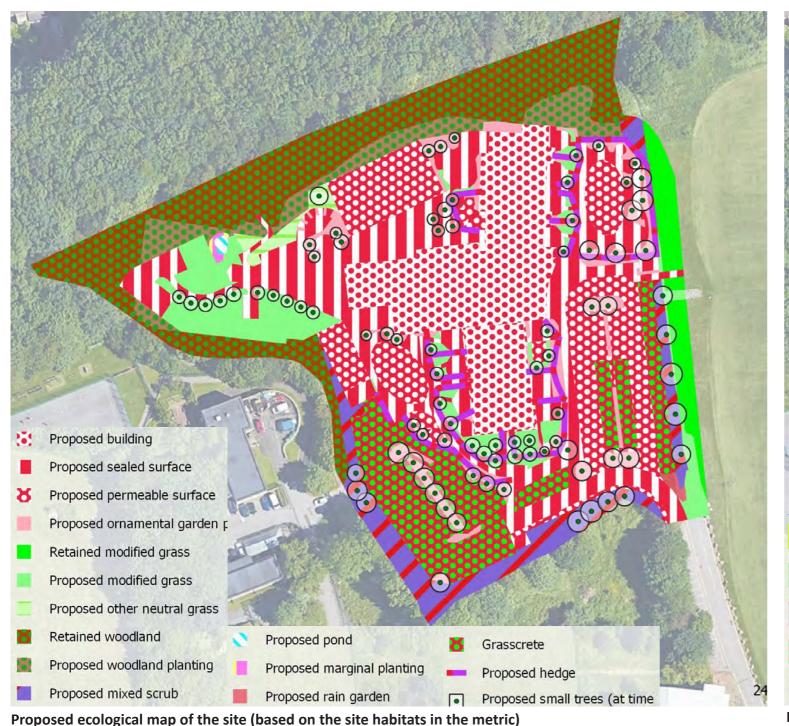
BIODIVERSITY NET GAIN

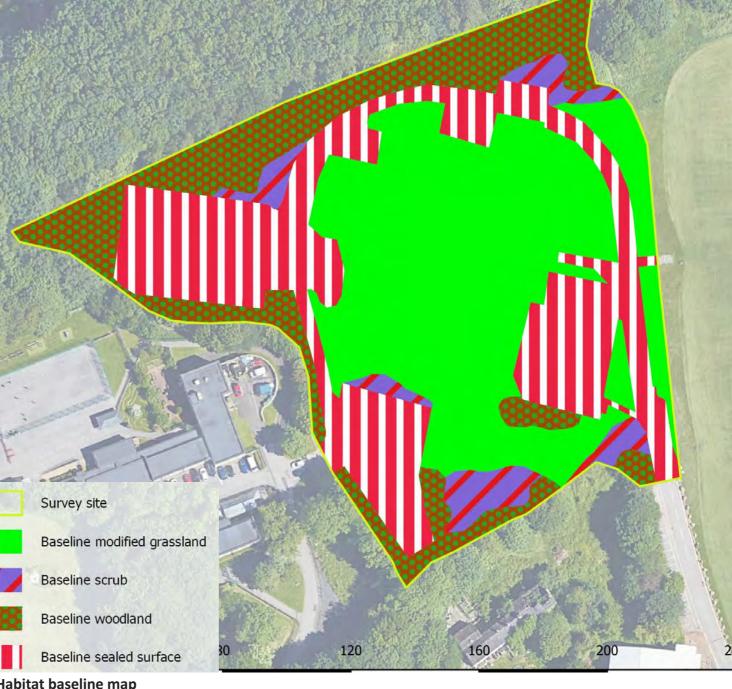
Biodiversity Net Gain (refer to BNG Report by Arbtech Consulting Ltd for details)

Arbtech Consulting Ltd were instructed by Frank Shaw Associates Ltd to undertake a Biodiversity Net Gain (BNG) evaluation of the site. The results of the metric are included in the excel file:

Biodiversity Metric 4.0 (Former Deighton Centre, HD2 1JP) v3.2

The results indicate a net gain in habitat area units (1.26 units) and a net gain in linear units (0.36 units). This is mainly contributed to replacement of part of the baseline grassland and some woodland and scrub areas with the proposed school site of buildings sealed and permeable surfaces, ornamental planting and grass areas, but compensated for with enhanced retained woodland condition on site, native scrub planting. proposed trees and the proposed planting of new hedgerows.





LANDSCAPE LAYOUT

LANDSCAPE LAYOUT



Joseph Norton Academy



	Academy			
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	La	andscape Stater	nent	colour
	Кеу	Site Boundary		
	Paving	Textured Concrete Slab Paving with stone aggregates, colour: cream, 400x400x65mm (50mm thick at pedestrian areas)		Porous Coloured Tarmac Surface, colours: buff, light blue
Street St		Standard Concrete Block Paving 200x100x60mm colour: natural		Polymeric Type 4 Sports Surface, porous, colour: light blue
		Permeable Concrete Block Paving 200x100x80mm colours: natural and charcoal		Wet Pour Safety Surface colour: light blue
		Standard Concrete Pimple Paving 400x400x50mm colour: buff		Woodchip Footpath, 150 mm thick layer
15 6 Pares ion 12 13 13 14 15	Ennoina	Vehicular Tarmac Blacktop		Gravel-filled Cellular Plastic Pavers with buff- coloured split gravel infill
	Fencing	3.0m Timber Slat/Weld- Mesh Fencing to Sprinkler Tank Compound	Softwork	S Ornamental Shrub Planting
		2.4m Timber Slat/Weld- Mesh Fencing to Bin Store		Native Shrub Planting
	Red Peld Peld Peld	2.0m Timber Featherboard Fencing as cladding to lower part of the 3.0m rebound fence at eastern side of MUGA		Hedge Planting
	BO BO BO	3.0m Rebound Weld Mesh- Fencing to MUGA		Amenity Grass Seeding
	Reg Reg Deg	2.4m Anti-climb Weld Mesh- Fencing to outdoor play spaces & site perimeter		Pre-grow, Fibre-reinforced Turf Grass
		1.8m Anti-climb Weld Mesh- Fencing to Class Gardens		Woodland Undergrowth Seeding
	To the second se	1.5m Anti-climb Weld Mesh- Fencing to Class Gardens		Wildflower Meadow Seeding
Touties Significant Control of the C	J. J	Metal Balustrade on top of Retaining Walls		Wetland / Pond Margin Seeding
State of the state		0.9m Stainless Steel Handrail to Steps		Grazing Pasture Seeding
	The state of the s	1.5m Galvanised Wire Mesh- Fencing to Chicken Run and Goat Enclosures		Existing Woodland to be improved
	17.77.77.77.77.77.77.77.77.77.77.77.77.7	1.1m Galvanised Wire Mesh Fencing to Pig Enclosure with electric pasture tape to bottom	·	Proposed Tree Planting
	17.5	Timber Picket Fencing to Forest School and Vegetable Beds		Existing Trees with Root Protection Zone (RPZ) dashed in blue
Color				Existing Trees to be removed

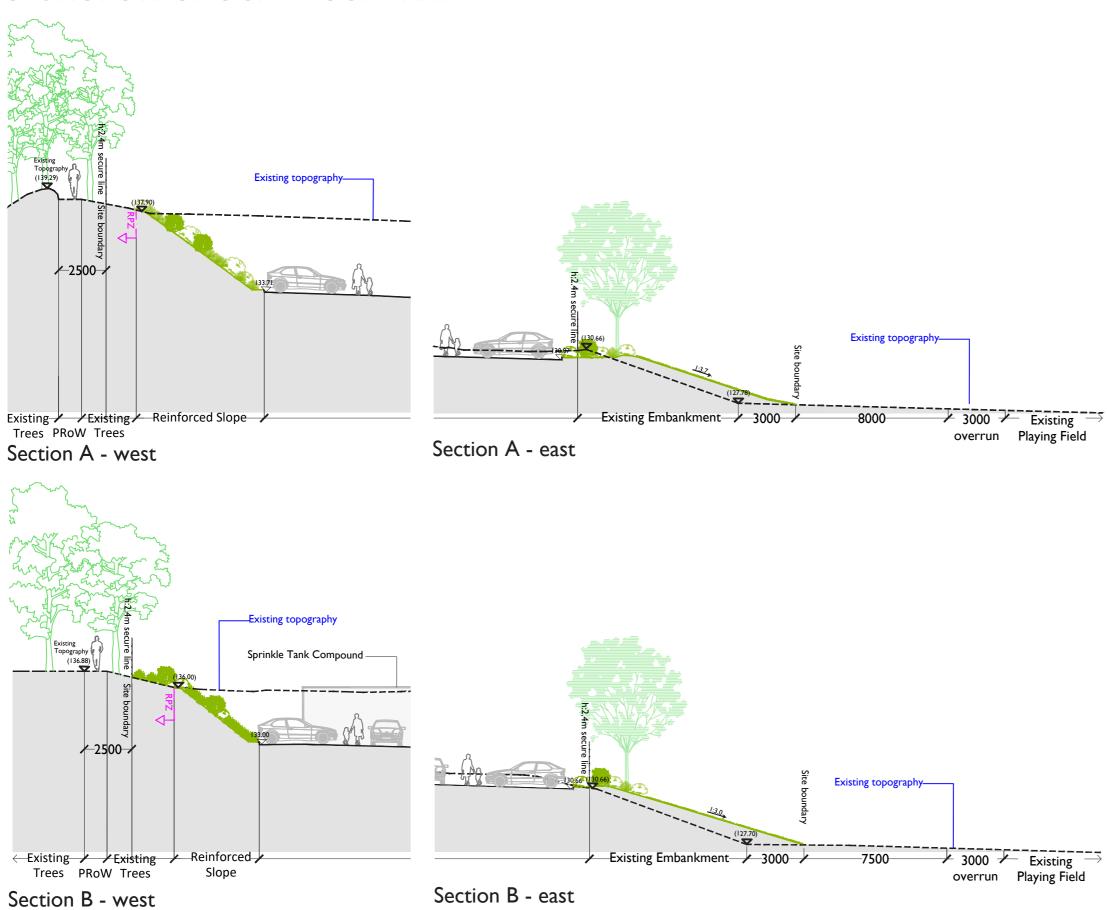
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SITE SECTIONS

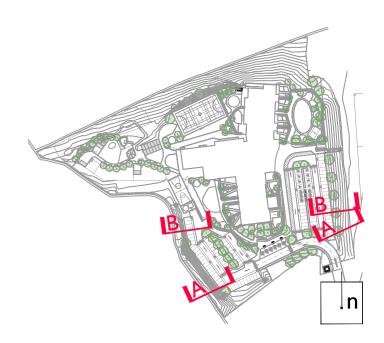


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SECTIONS ALONG SITE BOUNDARY

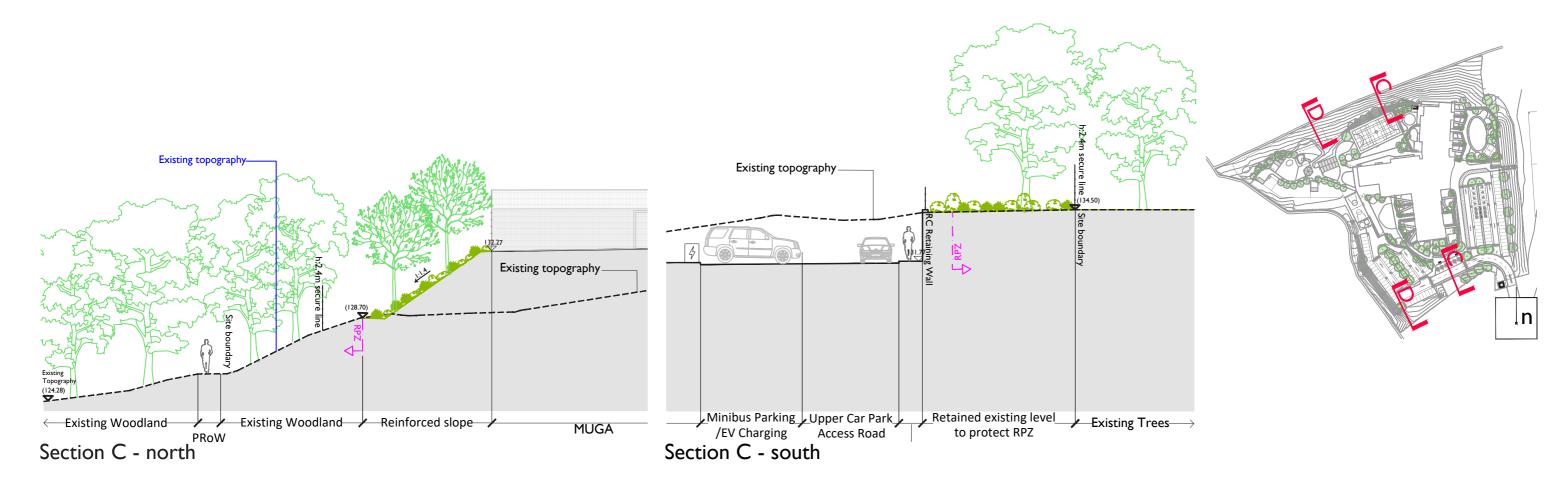


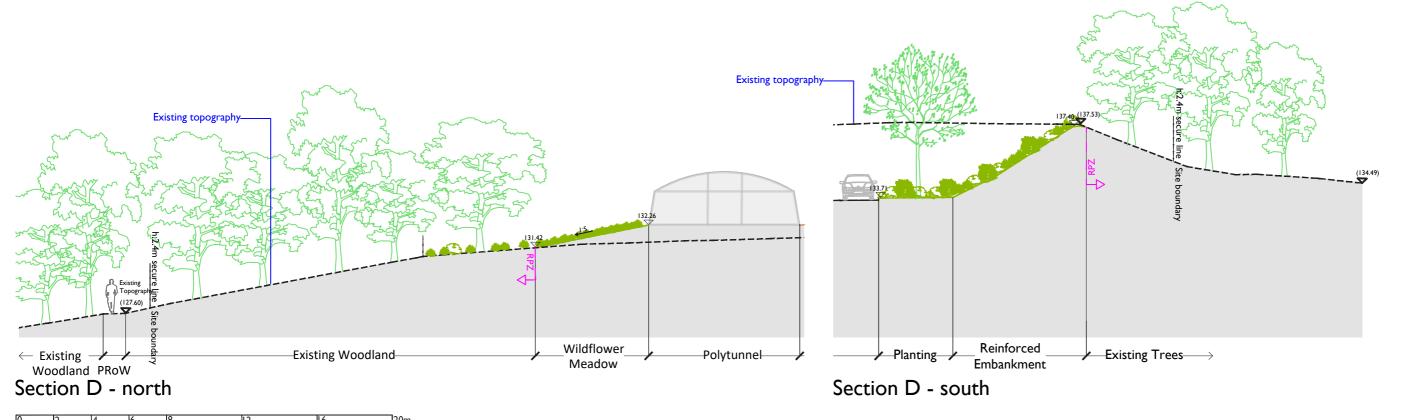




SECTIONS ALONG SITE BOUNDARY

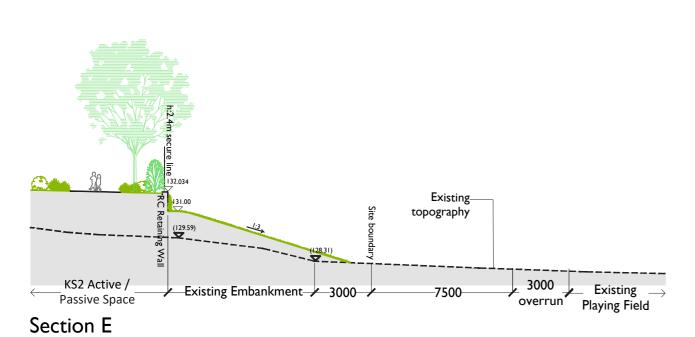






SECTIONS ALONG SITE BOUNDARY





Existing topography

Lower Car Park

Existing Embankment

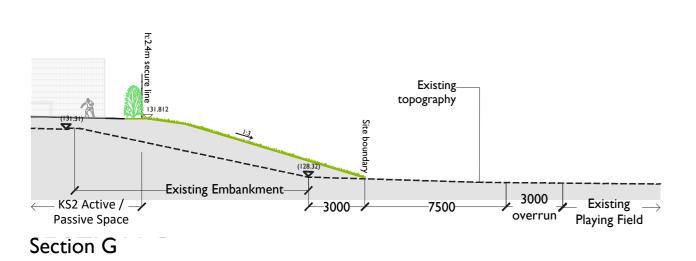
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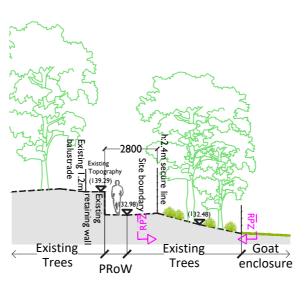
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Sexisting overrun

Playing Field

Section F

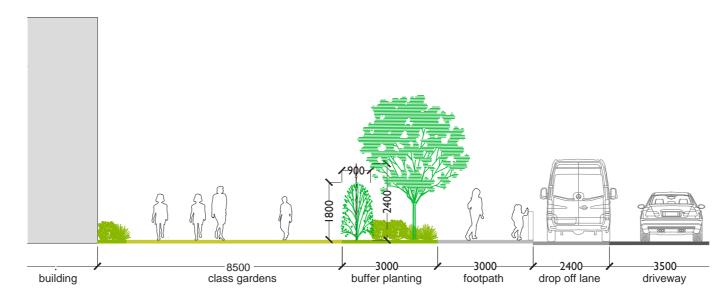




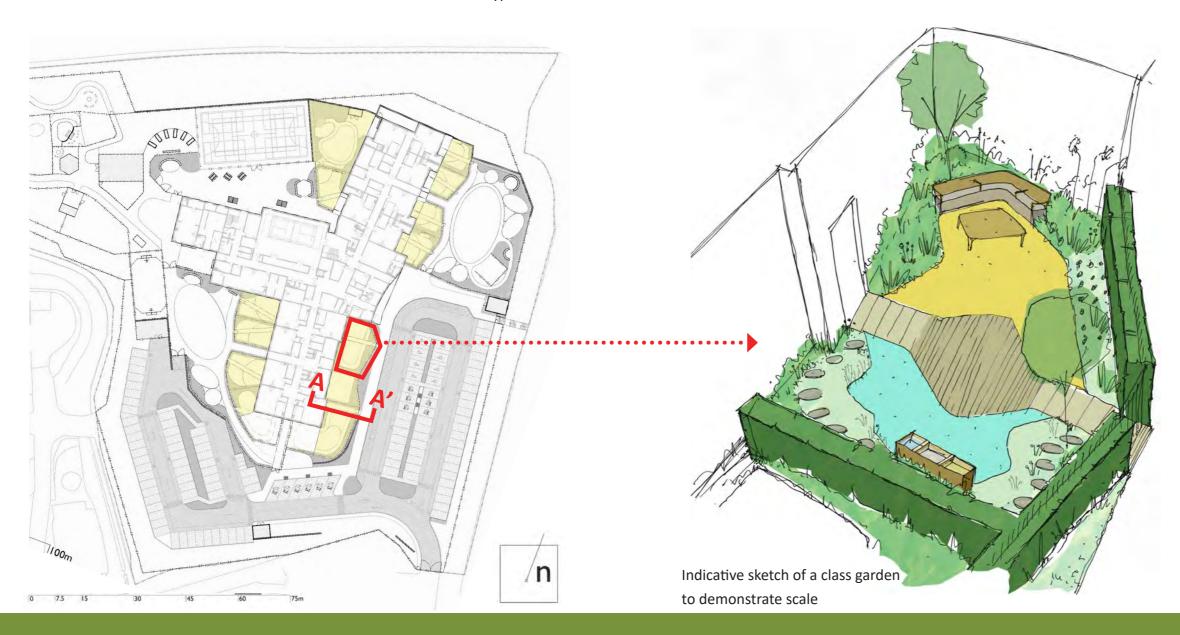
Section H

CLASS GARDENS

- Calm (NOT stimulating) views from inside to outside
- Outdoor extension of classrooms each with its designated space for ownership
- Cover and seating for increased usage
- Quiet study
- Some growing
- Messy play for younger children
- Outdoor cooking possibility for older children
- Primarily fixed furniture
- Concrete slab and block route with wet-pour defining activity / seating spaces

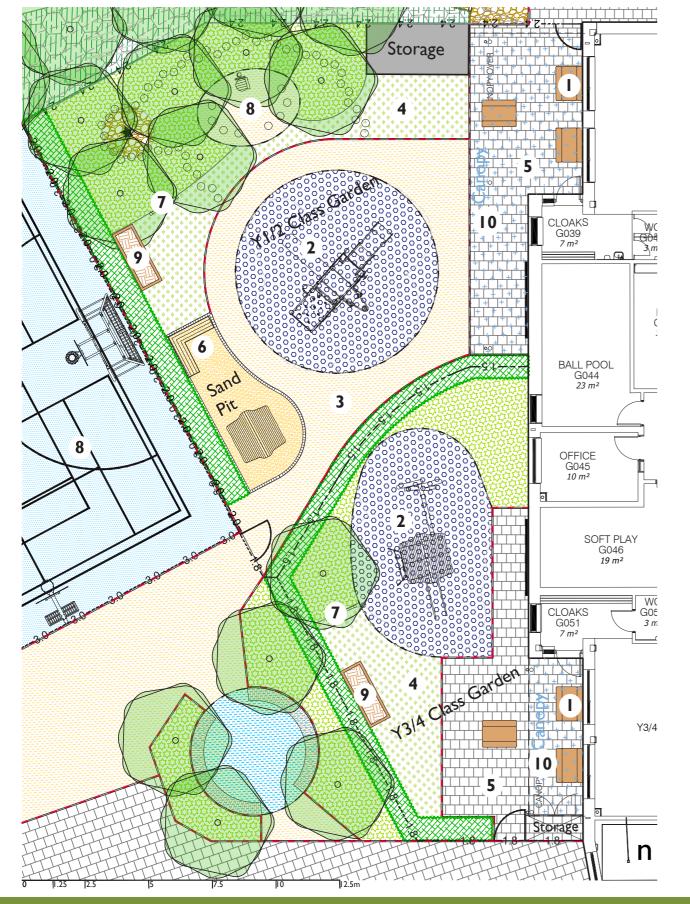


Typical Section A-A'





KS1 CLASS GARDENS (years 1/2 and 3/4)



Brief provided by Kirklees Council

- Active & passive space provision in the class garden.
- To look good and work year-round.
- Mud Kitchen.
- Messy play.
- Story telling space.
- Imaginative play opportunities.

- · Cleanable.
- Allow for use year-round for much of the day (shelter).

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- Routes for Wheeled toys trikes etc.
- Sensory variety.
- Storage for wheeled toys, loose toys. Storage for wellies.
- Growing areas minimal.



Children-sized table/ seats



2 Wet-pour Safety Surface, skyblue



3 Light buff coloured Tarmac



4 Fibre-reinforced amenity turf



5 Textured Slab Paving



6 Mud Kitchen



7 Sensory Play



8 Story telling



9 Crop growing



10 Canopy

KS2 CLASS GARDENS (years 5 and 6)



Joseph Norton Academy Deighton // Landscape Statement



Brief provided by Kirklees Council

- To look good and work year-round
- Important areas for growing multiple crops
- Storage for tools and wellies
- Regulation space
- Some messy play facilities.
- Normally no use at break times.



I Table/ seats



2 Bench



3 Light buff coloured Tarmac



4 Fibre-reinforced amenity turf



5 Textured Slab Paving



6 Crop growing



7 Storage

KS3 CLASS GARDENS (years 7 to 9)



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Brief provided by Kirklees Council

- These three year 8 and 9 class gardens adjacent to the playground to be freely available for use at breaks.
- All six KS3 class gardens to have very clear use that is not an active use.
- Must especially not be attractive for playing ball games.
- Primary use as seating and passive activities in class and at breaks.
- No growing space required as this age group will use the farm.
- Important design is very suitable for sitting and having sanctuary.
- Design to be suitable for wide range of classroom learning.
- The school are considering using this class KS3 garden as an especially quiet zone for use of breaks by those children who will struggle with the busy playground.
- Important design is very suitable for sitting and having sanctuary.
- Design to be suitable for wide range of classroom learning.
- The school are considering using this class KS3 garden as an especially quiet zone for use of breaks by those children who will struggle with the busy playground.



I Table/ seats



2 Bench



3 Light buff coloured Tarmac



4 Fibre-reinforced amenity turf



5 Textured Slab Paving

ACTIVE / PASSIVE OUTDOOR SPACES



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Aims

- Calming ambience in nature biophillia
- Active and quiet passive areas
- Woodland backdrop and atmosphere
- Sensory environment sound, smell, touch, movements,
- Teaching and learning opportunities
- Highlight the changes of season
- Collecting, measuring, counting, painting, stories
- Quiet decompression places recovery
- Promote biodiversity with natural play
- Incidental play and physical engagement
- Track for learn to ride



KS2 ACTIVE / PASSIVE SPACES

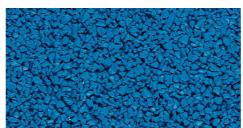




Seating



2 Sunshade sail



3 Wet-pour Safety Surface, skyblue



4 Light buff / blue coloured Tarmac



5 Textured Slab Paving

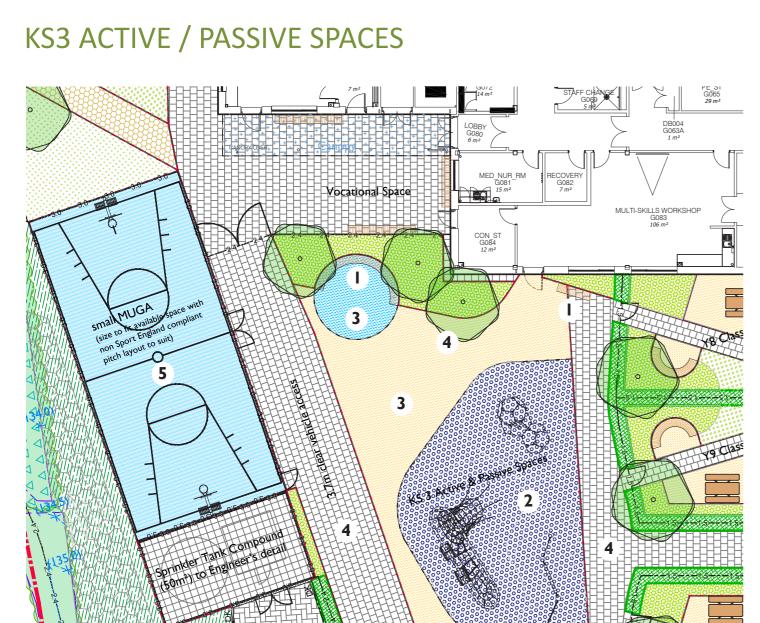
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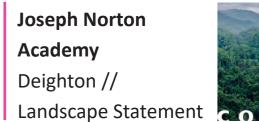


Brief provided by Kirklees Council

- Arena for seating larger groups and gatherings (incl. sunshade)
- Smaller quiet safe seating spaces
- Multi-play items for imaginative/ active play (incl. multiple levels, platforms, slide and climbing features)
- Imaginative play areas ideally that can be reimagined in multiple scenarios
- Swing suitable for multiple user, rocking items preferred
- Spinning items not required











- Arena for seating larger groups and gatherings
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- Imaginative play areas ideally that can be reimagined in multiple scenarios
- Swing suitable for multiple user, rocking items preferred
- Spinning items not required



I Seating



2 Wet-pour Safety Surface, skyblue



3 Light buff / blue coloured Tarmac



4 Textured Slab Paving



5 Polymeric Sports Surface

n



KS4+5 ACTIVE / PASSIVE SPACES



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Landscape Statement

Brief provided by Kirklees Council

- Provide primarily seating and tables creating areas for multiple groups of students to go in.
- Provide durable outdoor table tennis tables or similar.
- Basketball and net ball nets to be considered in the MUGA at right angles to the football.
- Consider if a secondary net might be put on the outside of the fence.

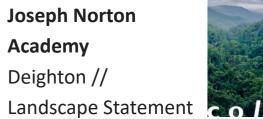


I Table tennis



6 Table/ Seats

OUTDOOR LEARNING AREA & FOREST SCHOOL









Gravel-filled Cellular Plastic Pavers



2 Raised Crop Planting Beds



3 Pond Dipping Platform



4 Gazebo



10 Goat / Pig Shelter / Storage



9 Chicken Coop



8 Polytunnel



7 Pollarded Willow Tree Row



6 Forest School



5 Bug Hotel

BOUNDARY TREATMENTS

BOUNDARY TREATMENTS

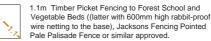














2.0m Timber Closeboard Fencing with gravel board to eastern side of MUGA, Jacksons Traditional Featherboard Fence, or similar approved.



1.5m Galvanised Wire Mesh Fencing to Chicken Run and Goat Enclosure

Jacksons Agricultural Fencing or similar approved.



1.1m Galvanised Wire Mesh Fencing to Pigs Enclosure (75-150mm mesh) with electric pasture tape to bottom, Jacksons Agricultural Fencing or similar approved.

Timber Slat Fencing



3.0m Timber Slat/Weld Mesh Fencing to Sprinkler Tank Compound, Jacksons Fencing EuroGuard Combi.



2.4m Timber Slat/Weld Mesh Fencing to Bin Store, Jacksons Fencing EuroGuard Combi.

Weld-Mesh Fencing







1.8m Anti-climb Weld Mesh Fencing to upper years class gardens,
Jacksons Fencing EuroGuard or similar approved.



1.5m Anti-climb Weld Mesh Fencing to lower years class gardens,

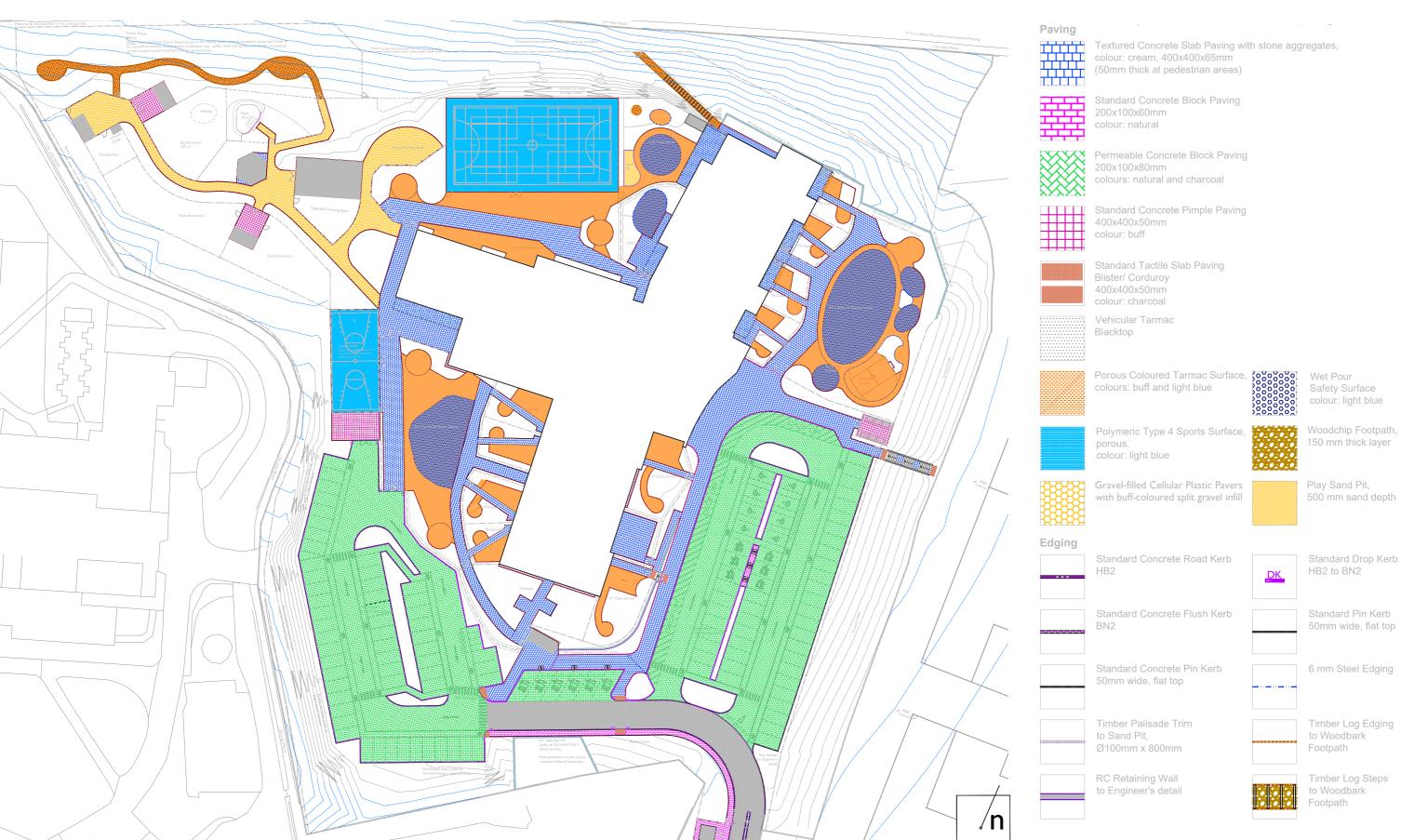


3.0m Rebound Weld Mesh Fencing to MUGA, Zaun Super Rebound Fence or similar approved



HARDWORKS STRATEGY

HARDWORKS STRATEGY



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PLANTING STRATEGY

PLANTING STRATEGY / ZONING



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Key						
	Planting					
	Ornamental Shrub Planting					
	Active / Passive Outdoor Spaces					
	Native Shrub and Woodland Planting					
	Class Gardens					
	Existing Woodland to be improved					
	Seeding					
5-5-5-5	Species-Rich Grazing Meadow Mix					
	Habitat Aid Grazing Meadow Seed Mix	4g / m2				
FEEEE	Pond Edge Mix					
	Germinal WFG9 Wetland and Pond mix	5g / m2				
	Wildflower Meadow Mix					
	Emorsgate EM3 Special General					
	Purpose Meadow Mixture	4g / m2				
£3£3£31	Hedgerow Mix					
	Emorsgate EM1 Hedgerow Mix	4g / m2				
	Grass Seeding Mix					
	Germinal WFG20 Eco Species-rich Lawn	10g / m2				
	Turfing					
20 20 20 20 20 20 20 20 20 20 20 20 20 2	Hard-wearing fibre-reinforced Amenity ABG Advanced Turf Rootzone Reinforce System with Lindum LT8 Festival Plus Tur	ment				

CLASS GARDEN PLANTING



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Aims

- Provide a safe and calming green outdoor space to every groundfloor classroom.
- Provide a green calming view out of the classroom throughout the seasons.
- Provide a screen to mitigate distraction from beyond the class garden.
- Provide a secure fence line softened and masked by hedges and climbers.
- Sensory planting for pupils to interact with.
- Trees to provide structure and shade.

Requirements

- · Avoid poisonous plants or any which can cause health issues or injury.
- Robust and low maintenance planting.
- Sensory plants (appearance, colour, fragrance, texture) which are gently stimulating but without being overstimulating.
- Plants benefiting biodiversity & pollinators.
- A good proportion of evergreen plants for green aspects throughout the year.



Shrub Planting



Prunus 'Shogetsu'



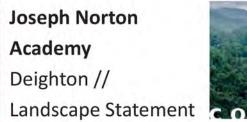
Hedge to fence Elaeagnus x ebbingei

Griselinia littoralis 'Green Hedgemaster'



Hard-wearing fibre-reinforced Amenity Grass ABG Advanced Turf Rootzone Reinforcement System with Lindum LT8 Festival Plus Turf

CLASS GARDEN PLANTING





Trees	Key	Girth cm	Height cm	Root Zone	Specification
Prunus 'Shogetsu'	6.4	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem 175-200cm;
	Ps*				5 breaks; underground rootball guying system
Note: Tree symbols marked with* = t	rees with	Underground (Guying System (refer to NBS spec	Q31.526 and drawing L-2352-DE-4003, detail section U)
Hedge to fence		Height cm	1)11 = 1	Density per m	Specification
Griselinia littoralis 'Green Hedgemaster'		120-150cm		2	Pot grown, 20L pot
Elaeagnus x ebbingei		120-150cm		2	Pot grown, 20L pot

Planting Mixture (100%)	Ratio				
Shrubs	%	Height cm	Pot size	Density per m	Specification
Choisya ternata	10	40-60	3L	3	Bushy; 4 breaks
Hebe 'Green Globe'	10	20-30	3L	4	Bushy; 5 breaks
Sarcococca confusa	10	3L	3L	4	Bushy 7 breaks
Skimmia x confusa 'Kew Green'	10	3L	3L	4	Bushy 3 breaks
Herbaceous	1 -	Pot size	11111	Density per m	2
Alchemilla mollis	6	0.5L		7	
Geranium macrorrhizum 'Spessart'	6	0.5L	aff ta	7	
Thymus serpyllum 'Elfin'	6	0.5L	11	8	
Thymus vulgaris 'Compactus'	6	0.5L		8	
Tiarella cordifolia 'Moorgrün'	6	2L	111	5	
Grasses		Pot size		Density per m	2
Briza media	6	2L		6	
Deschampsia 'Goldtau'	6	2L		3	
Festuca gautieri	6	0.5L		9	
Pennisetum thunbergii 'Red Buttons'	6	2L		3	
Stipa tenuissima	6	2L		5	



Stipa tenuissima







Prunus 'Shogetsu'

Griselinia littoralis 'Green Hedgemaster'



ABG Advanced Turf Rootzone Reinforcement System with Lindum LT8 Festival Plus Turf Elaeagnus x ebbingei (to east-facing class gardens)



Deschampsia 'Goldtau'





'Red Buttons'

ACTIVE/PASSIVE OUTDOOR SPACE PLANTING

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Landscape Statement





Aims

- Provide a safe and green outdoor environ-ment for play as well as passive use.
- Provide a sensory planting for pupils to interact with, but at the same time creating a calming environment.
- Provide a screen to mitigate distraction from beyond the school compound.
- Provide a secure fence line softened and masked by shrub planting, hedges and trees.
- · Trees to provide structure and shade.

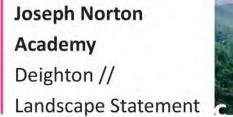
Requirements

- Avoid poisonous plants or any which can cause health issues or injury.
- Robust and low maintenance planting.
- Sensory plants (appearance, colour, fragrance, texture) which are gently stimulating but without being overstimulating.
- · Plants benefiting biodiversity & pollinators.
- A good proportion of evergreen plants for green aspects throughout the year.

Shrub Planting

Trees	Key
Acer campestre 'Streetwise'	(A'c*)
Acer saccharum	A's*
Betula papyrifera	(Bp*)
Prunus avium 'Plena'	På*
Tilia cordata 'Greenspire'	(Tċ*)
Hedge	
Griselinia littoralis 'Green Hedgema Elaeagnus x ebbingei	ster'

ACTIVE/PASSIVE OUTDOOR SPACE PLANTING





Trees	Key	Girth cm	Height cm	Root Zone	Specification
Acer campestre 'Streetwise'	Ac*	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem minimum 200cm; 5 breaks; underground rootball guying system
Acer saccharum	A's*	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem minimum 200cm; 5 breaks; underground rootball guying system
Betula papyrifera	Bp*	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem minimum 200cm; 5 breaks; underground rootball guying system
Prunus avium 'Plena'	På*	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem 175-200cm; 5 breaks; underground rootball guying system
Tilia cordata 'Greenspire'	Tċ*	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem 175-200cm; 5 breaks; underground rootball guying system

Note: Tree symbols marked with * = trees with Underground Guying System (refer to NBS spec Q31.526 and drawing L-2352-DE-4003. detail section U)

Hedge	Height cm	Density per m	Specification
Griselinia littoralis 'Green Hedgemaster'	120-150cm	2	Pot grown, 20L pot
Elaeagnus x ebbingei	120-150cm	2	Pot grown, 20L pot

Planting Mixture (100%)	Ratio				
Shrubs	%	Height cm	Pot size	Density per i	m2 Specification
Choisya ternata	5	40-60	3L	3	Bushy; 4 breaks
Sarcococca confusa	10	3L	3L	4	Bushy 7 breaks
Hebe 'Green Globe'	5	20-30	3L	4	Bushy; 5 breaks
Lavandula x angustifolia 'Hidcote'	6	15-20	2L	4	Bushy; 5 breaks
Lonicera nitida 'May Green'	5	30-40	2L	3	Bushy; 3 breaks
Rosmarinus officinalis 'Blue Boy'	5	30-40	3L	3	Bushy; 4 breaks
Skimmia x confusa 'Kew Green'	10	3L	3L	4	Bushy 3 breaks
Herbaceous	11:27	Pot size	Density per m2		
Ajuga reptans 'Catlin's Giant'	10	0.5L	8		
Geranium macrorrhizum 'Spessart'	15	0.5L	7		
Grasses		Pot size	Density per m2		
Briza media	8	2L	6		The state of the s
Deschampsia 'Goldtau'	8	2L	3		
Pennisetum thunbergii 'Red Buttons'	8	2L	3		Carlo Color
Stipa calamagrostis 'Lemperg'	8	2L	3		
Stipa tenuissima	10	2L	5		

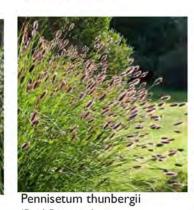


Bushy; 4 breaks Bushy 7 breaks Bushy; 5 breaks Bushy; 5 breaks Bushy; 3 breaks Bushy; 4 breaks Bushy 3 breaks







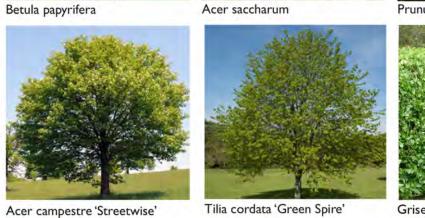


Skimmia x confusa 'Kew Green'















Stipa calamagrostis 'Lemperg'



Hebe 'Emerald Green' Ajuga reptans 'Catlin's Giant'



Lavandula x angustifolia 'Hidcote'



Briza media

'Red Buttons'

ORNAMENTAL SHRUB PLANTING



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Aims

- Benefit biodiversity and SuDS.
- Soften an extensive car park to avoid an 'institutional' impression of the space.
- Provide a welcoming and calming approach to the school.
- Provide green views from the upper floor classrooms.
- Trees to provide structure and shade.
- Fruit trees to provide a flowering aspect in spring and the opportunity for fruit harvesting.

Requirements

- Avoid poisonous plants or any which can cause health issues or injury in proximity of students drop-off and along circulation routes.
- · Robust and low maintenance planting.
- · Plants benefiting biodiversity & pollinators.
- A good proportion of evergreen plants for green aspects throughout the year.

Shrub Planting

Trees	Key
Acer campestre 'Streetwise'	(A'c)
Malus domestica 'Cox's Self Fertile'	Mc
Malus domestica 'Egremont Russet	Me
Malus domestica 'Sunset'	Ms
Carpinus betulus	(cb)
Prunus avium 'Plena'	På
Prunus domestica	6
'Reine-Claude D'Oullins'	(Pa)
Prunus padus 'Albertii'	(Pp)
Pyrus communis 'Conference'	(Pċ)
Sorbus aucuparia 'Sheerwater Seedling'	Sò
Tilia cordata 'Greenspire'	(Tċ)

ORNAMENTAL SHRUB PLANTING

Trees	Key	Girth cm	Height cm	Root Zone	Specification
Acer campestre 'Streetwise'	(A'c)	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem minimum 200cm; 5 breaks
Malus domestica 'Cox's Self Fertile'	Mc	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem minimum 200cm; 5 breaks
Malus domestica 'Egremont Russet	Me	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem minimum 175- 200cm; 5 breaks
Malus domestica 'Sunset'	Ms	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem minimum 175- 200cm; 5 breaks
Carpinus betulus	(Cb)	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem minimum 175- 200cm; 5 breaks
Prunus avium 'Plena'	Pà	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem minimum 175- 200cm; 5 breaks
Prunus domestica 'Reine-Claude D'Oullins'	(Pä)	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem minimum 175- 200cm; 5 breaks
Prunus padus 'Albertii'	Pp	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem minimum 175- 200cm; 5 breaks
Pyrus communis 'Conference'	Pċ	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem minimum 175- 200cm; 5 breaks
Sorbus aucuparia 'Sheerwater Seedling'	(sò)	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem minimum 200cm; 5 breaks
Tilia cordata 'Greenspire'	Tc	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem 175-200cm; 5 breaks
Salix alba (willow trees to be regularly pollarded to provide goat food)	Sà	10-12	300-350	RB	3x; Selected Standard; clear stem 175-200cm; 4 breaks

Hedge	Height cm	Density per m	Specification
Griselinia littoralis 'Green Hedgemaster'	120-150cm	2	Pot grown, 20L pot
Elaeagnus x ebbingei	120-150cm	2	Pot grown, 20L pot

Planting Mixture (100%)	Ratio				
Shrubs	%	Height cm	Pot size	Density per ma	Specification
Choisya ternata	10	40-60	3L	3	Bushy; 4 breaks
Lavandula x angustifolia 'Hidcote'	6	15-20	2L	4	Bushy; 5 breaks
Hebe 'Green Globe'	8	20-30	3L	4	Bushy; 5 breaks
Lonicera nitida 'May Green'	10	30-40	2L	3	Bushy; 3 breaks
Sarcococca confusa	8	3L	3L	4	Bushy 7 breaks
Skimmia x confusa 'Kew Green'	7	3L	3L	4	Bushy 3 breaks
Herbaceous		Pot size	Density per m2	2	
Geranium macrorrhizum 'Spessart'	24	0.5L	7]	
Grasses		Pot size	Density per ma	2	
Stipa calamagrostis 'Lemperg'	12	2L	3]	
Stina tenuissima	12	21	5	1	



Lonicera nitida 'May Green'



Lavandula x angustifolia 'Hidcote'



Hebe 'Emerald Green'



Geranium macrorrhizum 'Spessart'



Skimmia x confusa 'Kew Green'



Tilia cordata 'Green Spire' Carpinus betulus



Acer campestre 'Streetwise'

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Prunus padus 'Albertii'







Prunus avium 'Plena'



Stipa tenuissima



Choisya ternata



Stipa calamagrostis 'Lemperg'



Sarcococca confusa

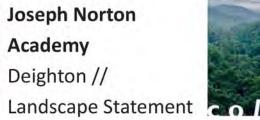


Prunus domestica 'Reine-Claude D'Oullins'



Malus domestica

NATIVE SHRUB & WOODLAND PLANTING







- · Extension and improvement of the existing woodland frame.
- Increased biodiversity through habitat improvement and creation.
- Provide a natural screen to the school.
- · To connect existing habitats on site as well as to provide improvement to the wider ecological network beyond.

Requirements

- · Native plants with benefits for local wildlife.
- · Low maintenance planting.
- Plants which can be used for fruit harvesting and ecological education.
- · Plants providing interesting aspects throughout the seasons.

Shrub Planting

Trees	Key
Acer campestre 'Streetwise'	(A'c)
Carpinus betulus	(cb)
Prunus avium 'Plena'	Pà
Prunus padus 'Albertii'	(Pp)
Quercus robur	Qr

NATIVE SHRUB & WOODLAND PLANTING

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Trees	Key	Girth cm	Height cm	Root Zone	Specification
Acer campestre 'Streetwise'	Ac	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem minimum 200cm; 5 breaks
Carpinus betulus	Cb	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem minimum 175- 200cm; 5 breaks
Prunus avium 'Plena'	På	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem minimum 175- 200cm; 5 breaks
Prunus padus 'Albertii'	Pp	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem minimum 175- 200cm; 5 breaks
Quercus robur	(Qir)	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem minimum 175- 200cm; 5 breaks







Prunus avium 'Plena'

Prunus padus 'Albertii'

Acer campestre 'Streetwise'

Planting Mixture (100%)	Ratio				
Shrubs	%	Height cm	Pot size	Density per m2	Specification
Corylus avellana	10	80-100	10L	1	Branched; 4 breaks
Viburnum opulus	10	40-60	2L	3	Bushy; 7 breaks
Sambucus nigra	10	40-60	2L	2	Branched; 3 breaks









Fruit bushes Pot size Density per m2 Specification Height cm 60-80 3L Ribes nigrum 3L Ribes rubrum 60-80 2L Rubus idaeus 'Autumn Bliss' 40-60 20-30 0.5L Rubus fruticosus Herbaceous Pot size Density per m2 0.5L Allium ursinum Aruncus dioicus 5 2L 4 7 Galium odoratum 0.5L 0.5L Geranium macrorrhizum Pot size Density per m2 Ferns Dryopteris filix-mas 10 2L Grasses Pot size Density per m2 Carex pendula 10 2L 3 10 2L Luzula sylvatica 4











Viburnum opulus

Bush 3/5 shoots

Bush 3/5 shoots

Strong cane

3

3

3

3

Corylus avellana

Ribes rubrum



Aruncus dioicus















Geranium macrorrhizum

Luzula sylvatica

Galium odoratum

Allium ursinum

Dryopteris affinis

Dryopteris filix-mas

WOODLAND IMPROVEMENT PLANTING *to be verified by the Ecologist

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- Improvement of the existing woodland understorey and fieldlayer to benefit BNG.
- Increased biodiversity through habitat improvement and creation.

Requirements

- · Native plants with benefits for local wildlife and suitable for the existing conditions.
- Plants providing interesting aspects throughout the seasons.



Woodland groundlayer seed mix Rhamnus cathartica

WOODLAND IMPROVEMENT PLANTING *to be verified by the Ecologist

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Landscape Statement



Trees	Qty	Girth cm	Height cm	Root Zone	Specification
orbus aucuparia (1 no. per 200 m2)	22	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem minimum 200cm; 5 breaks
lalus sylvestris (1 no. per 200 m2)	22	14-16	400-450	RB	3x; Extra Heavy Standard; clear stem minimum 200cm; 5 breaks
Planting/ Seeding Mixture (100%)	Ratio				
hrubs	%	Height cm	Pot size	Density per n	n2 Specification
Cornus sanguinea	3	40-60	3L	3	Branched; 4 breaks
orylus avellana	3	80-100	10L	1	Branched; 4 breaks
Crataegus monogyna	3	175-200	10-15L	1	1+1; Transplant - seed raised; branched; 4 breaks
lex aquifolium	3	60-80	3L	1	Leader with laterals
Rhanus cathartica	3	40-60	2L	2	Leader with laterals; 3 breaks
Sambucus nigra	3	40-60	2L	2	Branched; 3 breaks
iburnum opulus	3	60-80	10L	1	Branched; 5 breaks
limbers		Height cm	Pot size	Density per n	n2 Specification
onicera periclymenum	3	60-80	2L	1	Caned; several shoots; 2 breaks
ruit bushes		Height cm	Pot size	Density per n	12 Specification
libes rubrum	3	60-80	3L	3	Bush 3/5 shoots
Rubus fruticosus	3	20-30	0.5L	3	
Grasses		Pot size	Density per n	n2	
Carex pendula	4	2L	3		
uzula sylvatica	4	2L	4		
erns		Pot size	Density per n	n2	
Asplenium scolopendrium	4	2L	4	2	
Blechnum spicant	4	2L	4		
Dryopteris affinis	4	2L	2		
Woodland groundcover seed mix					
	50	4g / m2		9	

Luzula sylvatica

Carex pendula

Dryopteris affinis

Asplenium scolopendriuma

Blechnum spicant

Pteridium aquilinum

SEEDING AND TURFING



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Aims

- Providing a new wetland habitat with natural pond and wildflower meadow for ecological education opportunities and biodiversity improvement.
- Plants providing food for farm animals (e.g. pollarded willows to provide food for goats).
- Species rich pasture to provide grazing for farm animals
- Improvement of Woodland fringe habitat with native hedgerow undergrowth seeding to new woodland planting.
- To connect existing habitats on site as well as to provide improvement to the wider ecological network beyond.

Requirements

- Avoid toxic plants in areas frequented and used by students.
- Native plants with benefits for local wildlife and provide opportunities for nature studies.

	Species-Rich Grazing Meadow Mix					
	Habitat Aid Grazing Meadow Seed Mix	4g / m2				
	Pond Edge Mix					
	Germinal WFG9 Wetland and Pond mix	5g / m2				
	Wildflower Meadow Mix					
	Emorsgate EM3 Special General					
	Purpose Meadow Mixture	4g / m2				
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Hedgerow Mix					
	Emorsgate EM1 Hedgerow Mix	4g / m2				
22222						
+ + + + + + + + + + + + + + + + + + + +	Grass Seeding Mix					
	Germinal WFG20 Eco Species-rich Lawn	10g / m2				
+]+]+]+]+						
8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	Hard-wearing fibre-reinforced Amenity Grass					
	ABG Advanced Turf Rootzone Reinforcement					
	Systemwith Lindum LT8 Festival Plus Turf					

SEEDING AND TURFING



Grazing Meadow Seed Mix

(www.habitataid.co.uk/products/grazing-meadow-mix) Forage herbs (total 10%):

1% Yarrow

1% Ribgrass

4% Chicory

1.5% Sheep's Burnet

1.5% Sheep's Parsley

1% Sainfoin

Grasses etc. (90%):

10% Meadow Fescue

7% Smooth Stalked Meadow Grass

10% Crested Dogstail

5% Smaller Cat's Tail

20% Creeping Red Fescue

29% Perennial Ryegrass

7% Cocksfoot

2% Red Clover



WFG9 Wetland and Pond Area Mix

(www.germinalamenity.com/wfg9-wetland-and-pond-areas)

6.0% Salad Burnet (Sanguisorba minor)

0.3% Common Fleabane (Pulicaria dysenterica)

0.5% Meadow Sweet (Filipendula ulmaria)

1.5% Loosetrife (Lythrum salicaria)

0.3% Yellow Flag (Iris Pseudacorus)

0.5% Greater Burnet (Sanguisorba officinalis)

0.1% Water Avens (Geum rivale)

3.0% Soft-Rush (Juncus effusus)

0.5% Pendulous Sedge (Carex pendula)

2.7% Birdsfoot Trefoil (Lotus corniculatus)

1.1% Borage (Borago officinalis)

2.0% Meadow Buttercup (Ranunculus acris)

2.0% White Clover (Trifolium repens)

25.0% Slender Creeping Red Fescue (Festuca rubra litoralis)

22.5% Crested Dogstail (Cynosurus cristatus)

10.0% Smooth Stalked Meadow Grass (Poa pratensis)

10.0% Tall Fescue (Festuca arundinacea)

7.5% Chewings Fescue (Festuca rubra commutata)

5.0% Tufted Hair Grass(Deschampsia cespitosa)



EM3 Special General Purpose Meadow Mix

(www.wildseed.co.uk/product/mixtures/complete-mixtures/general-purpose-meadow-mixtures/special-general-purpose-meadow-mixture/)

Wild Flowers 20%

0.40% Agrimonia eupatoria – Agrimony

0.40% Anthyllis vulneraria – Kidney Vetch

1.60% Centaurea nigra- Common Knapweed

0.60% Centaurea scabiosa – Greater Knapweed

0.10% Chaerophyllum temulum - Rough Chervil

0.40% Cruciata laevipes - Crosswort

1.00% Daucus carota – Wild Carrot

0.20% Echium vulgare – Viper's-bugloss

1.00% Galium album - Hedge Bedstraw

0.80% Galium verum - Lady's Bedstraw

0.10% Geranium pratense – Meadow Crane's-bill

0.80% Knautia arvensis – Field Scabious

0.20% Lathyrus pratensis - Meadow Vetchling

1.00% Leucanthemum vulgare – Oxeye Daisy

2.40% Malva moschata – Musk Mallow

0.60% Medicago lupulina – Black Medick

0.20% Onobrychis viciifolia – Sainfoin

0.40% Origanum vulgare – Wild Marjoram

2.20% Plantago lanceolata – Ribwort Plantain

0.40% Plantago media – Hoary Plantain

2.00% Poterium sanguisorba – Salad Burnet

0.40% Primula veris - Cowslip

0.20% Prunella vulgaris – Selfheal

0.40% Ranunculus bulbosus – Bulbous Buttercup

0.10% Sanguisorba officinalis – Great Burnet

1.00% Silene dioica – Red Campion

0.20% Silene vulgaris – Bladder Campion

0.30% Vicia cracca - Tufted Vetch

0.20% Vicia sativa ssp. segetalis – Common Vetch

80% Grasses

8.00% Agrostis capillaris – Common Bent

28.00% Cynosurus cristatus – Crested Dogstail

24.00% Festuca rubra - Red Fescue

4.00% Phleum bertolonii - Smaller Cat's-tail

16.00% Poa pratensis – Smooth-stalked Meadowgrass



EHI Hedgerow Mix

Joseph Norton

Landscape Statement

Academy

Deighton //

(www.wildseed.co.uk/product/mixtures/complete-mixtures/special-habitat-mixtures/hedgerow-mixture/)

Wild Flowers 20%

0.50% Agrimonia eupatoria – Agrimony

1.00% Alliaria petiolata – Garlic Mustard

0.50% Anthriscus sylvestris – Cow Parsley

1.00% Arctium minus – Lesser Burdock

2.00% Centaurea nigra – Common Knapweed

0.40% Chaerophyllum temulum - Rough Chervil

0.80% Cruciata laevipes – Crosswort

0.80% Daucus carota – Wild Carrot

1.50% Dipsacus fullonum – Wild Teasel

0.40% Filipendula ulmaria – Meadowsweet

1.50% Galium album – Hedge Bedstraw

0.40% Geum urbanum – Wood Avens

0.30% Geranium pratense – Meadow Crane's-bill

1.00% Lathyrus sylvestris – Narrow-leaved Everlasting-pea

1.20% Leucanthemum vulgare – Moon Daisy

1.00% Malva moschata – Musk Mallow

0.30% Origanum vulgare – Wild Marjoram

0.80% Plantago lanceolata – Ribwort Plantain

0.60% Primula veris – Cowslip

0.40% Rumex acetosa – Common Sorrel 2.00% Silene dioica – Red Campion

0.80% Silene vulgaris – Bladder Campion

0.80% Vicia cracca – Tufted Vetch

80% Grasses

4.80% Agrostis capillaris – Common Bent (w)

I.60% Anthoxanthum odoratum – Sweet Vernal-grass (w)

4.80% Brachypodium sylvaticum – False Brome (w)

36.00% Cynosurus cristatus – Crested Dogstail

1.60% Dactylis glomerata – Cocksfoot (w)

4.00% Deschampsia cespitosa – Tufted Hair-grass (w)

19.20% Festuca rubra – Red Fescue

8.00% Poa nemoralis – Wood Meadow-grass

colour

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