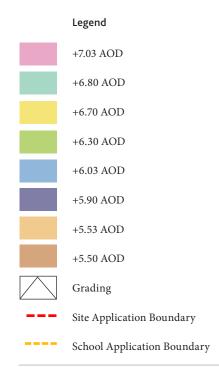
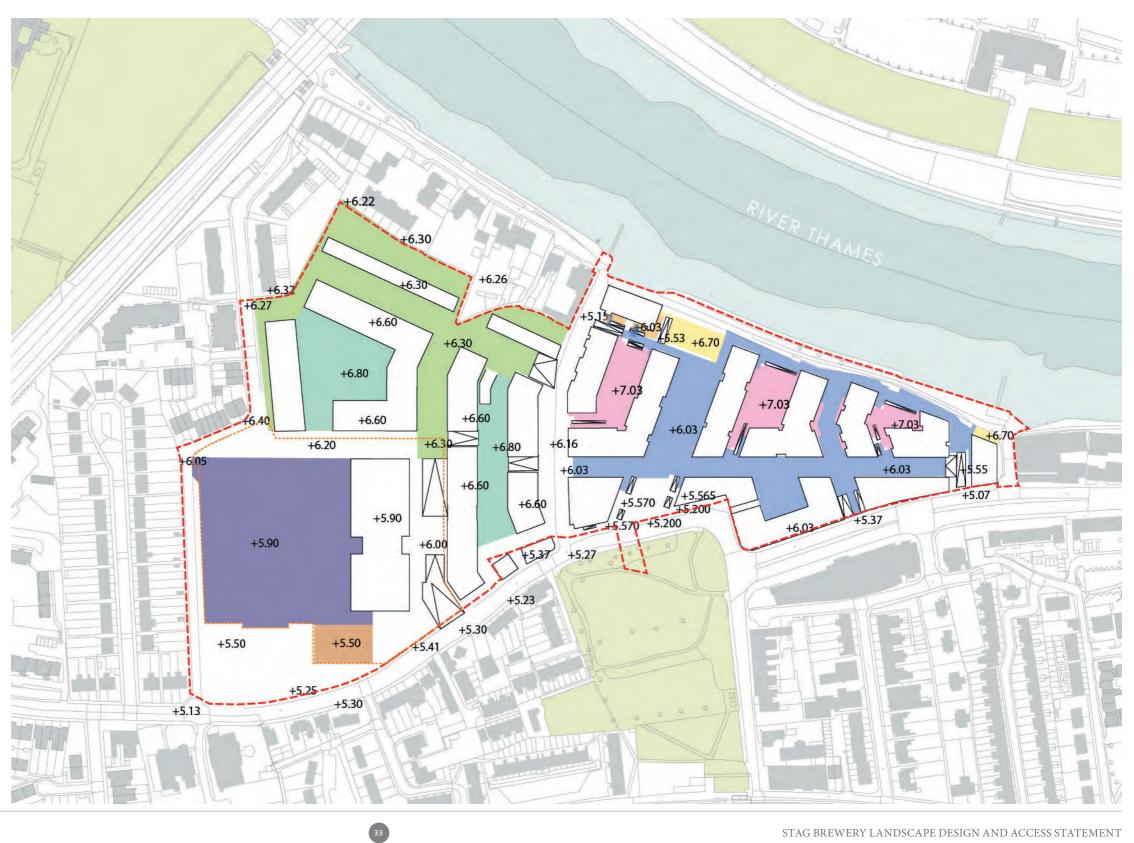
LEVELS PROPOSAL

SITE LEVELS

Broad levels and grading across the site has been indicated to illustrate the relative level of the development to the surroundings and the variation between residential (flood immune) areas and other open spaces and commercial areas.

Requirements for flood protection along the river frontage have been satisfied through provision of a wall to 6.70 AOD along the frontage of the eastern portion of the site.





STAG BREWERY LANDSCAPE DESIGN AND ACCESS STATEMENT

HARD LANDSCAPE STRATEGY

PAVING STRATEGY

The main aims of the hard landscape strategy are simplicity of design and layout, and overall quality, bearing in mind maintenance considerations, and cost limitations. The best of existing granite sett paving will be retained and reinstated wherever possible, in particular historic cobbles in Bull's Alley and along the Towpath.

Colour, texture and unit size help to define the uses of various spaces, including using paving sizes and patterns in 'streets' to identify pedestrian priority, service vehicle routes and loading bays. The accessibility requirements of vision and mobility impaired users is a factor in the determination of surface and edge types to provide a legible and safe environment in accordance with current requirements.

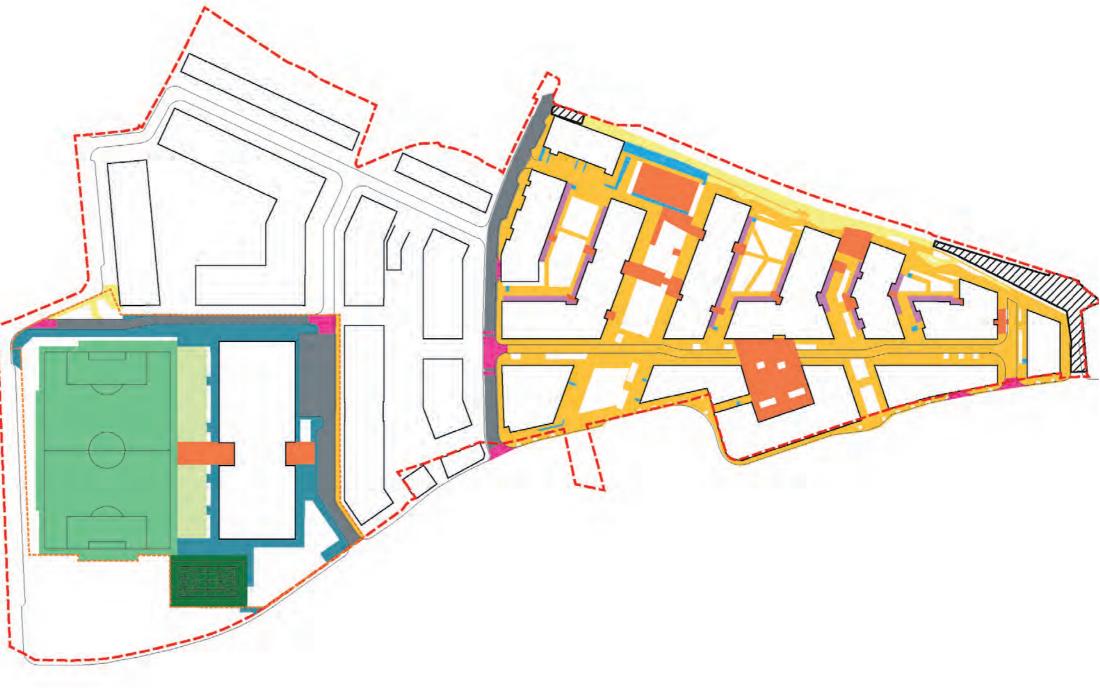
It is proposed to use paved surfaces of different scale and grain to create a range of distinct characters within a unified warm palette of materials. Natural stone paving is proposed in areas of shared (vehicular and pedestrian) zones, with some integration of bound gravel in several of flexible open spaces created within the masterplan, to provide variety and definition while creating a more permeable surface for stormwater infiltration.

The courtyard areas will be finished with stone pavements and resin bound gravel, with softfall (rubberised) pavements in designated play spaces.

LBRuT Guidance

Consideration has been given to Public Realm Design Guidelines (2006) published by LBRuT and pavements in the public realm reflect the intent and broad material selections recommended by this guide.









MUGA - Pitch Treatment



3G Pitch Treatment

Resin Bound Aggregate Paving







Hot Rolled Asphalt



High Quality Pre-Cast Concrete

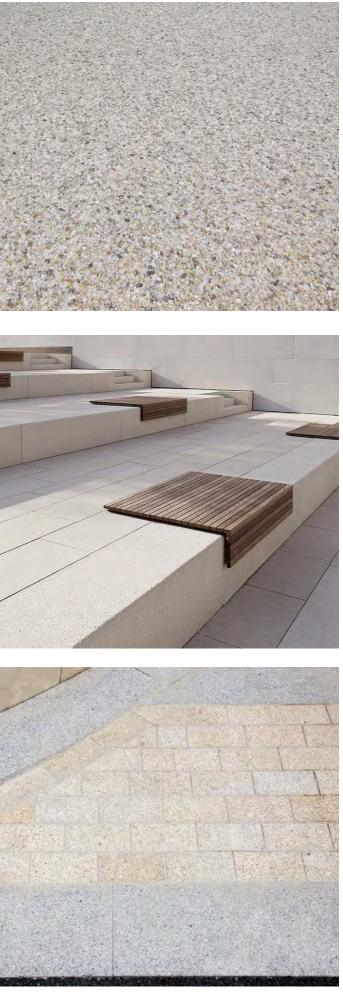


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High Quality Stone Paving

Feature Mix Stone Paving

High Quality Stone Paving



FURNITURE STRATEGY

MATERIALS AND SITE FURNITURE

The redevelopment of the site is designed to integrate the site with the wider precinct and the community of Mortlake – improving permeability and access. The selection of materials and finishes reflects this approach and is intended to integrate this site into the broader context of Mortlake.

Subtle changes of materials and patterns will be used to differentiate use areas and functions between public and private, vehicle and pedestrian and to define different character to special areas. Materials are selected for durability and functionality as well as appearance. Where feasible, materials will utilise recycled and recyclable materials and techniques and minimise energy and resource use throughout their lifecycle.

PRINCIPLE LANDSCAPE MATERIALS

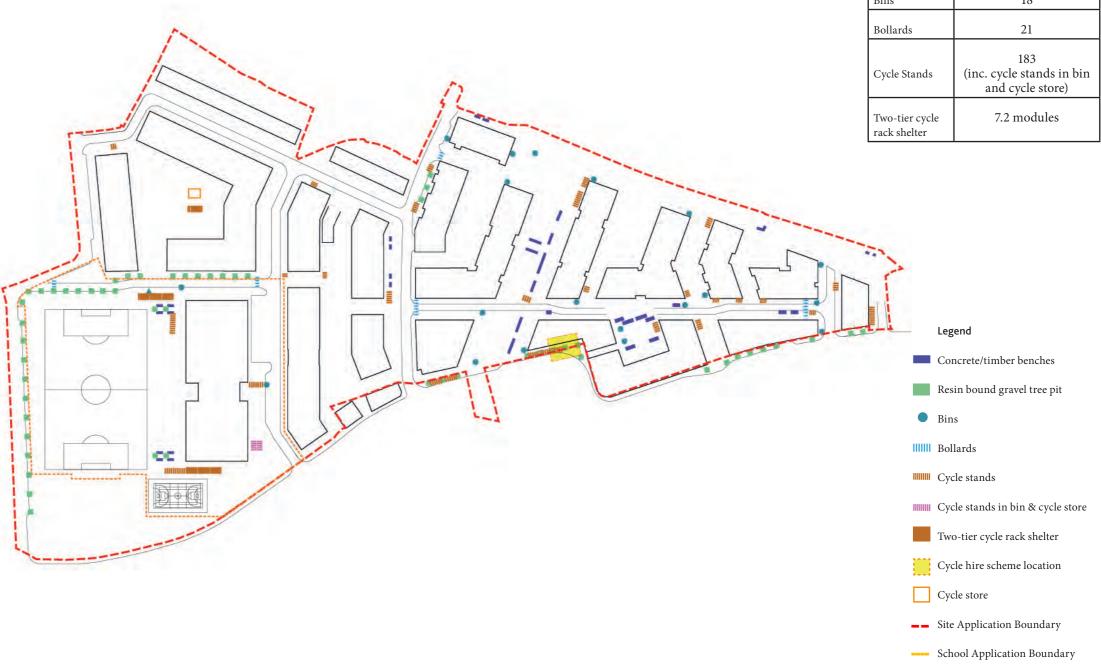
- » Powder coated mild steel
- » Corten steel
- » Stainless steel (matte / brushed finish only)
- » Natural York Stone
- » Natural granite
- » Precast concrete paving slabs and furniture elements
- » Dutch / London brick wall facings and paving
- » Fair-faced insitu concrete for low walls and seating elements

SITE FURNITURE

- » Seating:
- Low walls (concrete in situ or pre-cast construction) Pre-cast concrete seats
- » Bins
- » Bollards
- » Cycle Stands
- » Balustrades
- » Glass with anodised aluminium posts and frames
- » Fences mild steel (powder coat finish)
- » Screen walls private courts / defensible spaces

LIGHTING

A Lighting Strategy has been developed and is covered in detail in Michael Grubb's 547-(101)-DC-LS-J Lighting Strategy and 547-(010)-RP-EX-LA-A Sports Pitch Lighting Assessment for the School Application. The overall strategy has been developed in conjunction with the landscape and public realm to allow extended use of amenity spaces and safety and security throughout the site. Feature lighting (uplights, water features and function area lighting) has been provided, with careful management of light spill along the river edge to prevent conflict with ecological requirements (bats) and requirement to limit lighting onto the Towpath and the river.



Furniture Items	No. of items (inc. School)
Benches	25
Tree pits	54
Bins	18
Bollards	21
Cycle Stands	183 (inc. cycle stands in bin and cycle store)
Two-tier cycle rack shelter	7.2 modules



Concrete benches





Bins

Bollards



Resin bound gravel tree pit



Tree grilles



Manchester Cast Bollard / SFD560

Product Description

The Manchester Cast Iron Bollard has a traditional and contemporary design which makes it popular choice with Architects and Councils. The Cast Iron Bollard adds a classic look to any high street, while providing strength.

Dimension

Length 1300mm. Diameter 230mm. Manufactured from Cast Iron, Finished in black gloss. Root Fixed.





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Call our Sales Team: 01625 879442 Email: sales@streetfurnituredirect.co.uk Web: www.streetfurnituredirect.co.uk





CYCLE PARKING STRATEGY

CYCLE STRATEGY

Following consultation with the Cycle Access Group and the revision of the residential unit numbers, mixes and distribution an evaluation of the location and number of the cycle parking provision was undertaken. The cycle parking strategy has been adjusted to locate cycle stands and storage in close proximity to the proposed cycle routes and access to the residential cores.

	No. of New Parking (Long Stay)		No. of New Parking (Short Stay)	
	Required	Provided	Required	Provided
Detailed Application	1,181*	N/A	208	224
Outline Application	923*	46	14	46
School	165	160**	13	14
TOTAL	2,269	206**	235	284

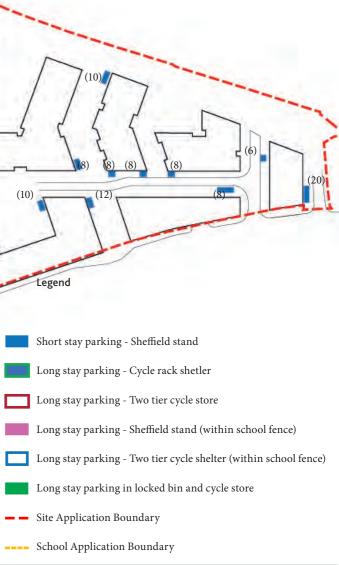
* The majority of long stay parking will be provided at basement level. Refer to architects Design and Access Statement for more information.

** Plus 20 long stay cycle parking spaces in locked bin and cycle store.

(10)(10) (18)(22) (24) (8) (60) (10) (30) (28) (20) (60) A REAL PROPERTY.

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NOTE: For long term cycle parking space requirements for Development Area 2 please refer to Stantec's calculations.



BIODIVERSITY STRATEGY

BIRD AND BAT BOXES

Bat boxes are integrated into the green and brown roofs on various buildings of the development (detailed component) with a total of ten boxes, tubes or bricks provided in association with soft landscape treatment on these roofs. Boxes are to be oriented between south-east and south-west to suit use.

Bird boxes (total 20 No.) are also provided on roofs closer to the River Thames, including five Schwegler Boxes for swifts and fifteen (15) additional boxes for other bird types. These are to be oriented east or west to suit use. Refer to Ecological report and Protected Species Report for more detail on location and types.

Plant species have been selected to suit a variety of habitats and microclimatic conditions across the site.

These will include a range of plants suitable as food or habitat plants for a wide range of fauna, including bee attracting flowering plants.

For Development Area 2, the biodiversity strategy will utilise the same principles as above and will be provided in detail design stage.





SOFT LANDSCAPE STRATEGY

PLANTING STRATEGY

The soft landscape strategy of the Stag Brewery development includes several layers of planting typologies including streetscapes, plazas and squares, courtyards, riverside littoral planting and incorporation of existing trees.

The main structural planting of trees will comprise lines of feature trees defining one or both edges of the main access routes – Ship Lane, Green Link and Thames Street.

Street trees will also be installed along residential streets, as well as augmenting tree planting on Lower Richmond Road and Mortlake High Street. A mix of perennial shrub and groundcover planting will be provided throughout all softscape areas, with mass planting and screen planting to suit use of each area. Planting mature heights will take into account safety and secure by design parameters to ensure general safety and to maintain sightlines and passive surveillance opportunities.

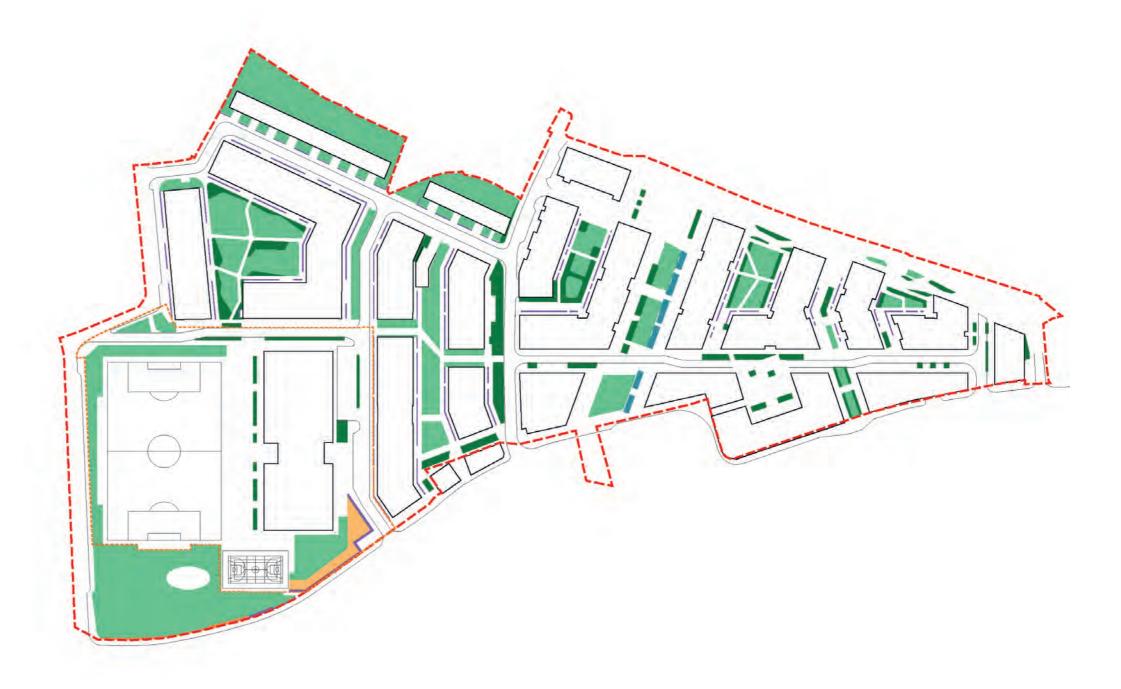
Soft landscape strategy for plazas and squares in the development will provide for a range of functions and activities, as well as providing resting places, shade and seasonal celebration. Residential courtyards will provide green amenity open space for residents and visitors, as well as natural play opportunities for children.

Littoral plant species are used in the areas close to the river edge, responding to existing riverside vegetation. This plant selection emphasises the riverside location and integrates the river edge living environment into the development. A mix of native, locally adapted and exotic plants are proposed to provide increased biodiversity and a sustainable mix of plants with improved drought resistance and longevity.

Good quality existing trees around the site will add valuable character to the site, and together with the soft landscape strategy, will deliver a well-connected green network in and around Stag Brewery development.



---- School Application Boundary











Rain Gardens

Law



Mass Planting



Mass Planting

MASS PLANTING: TYPICAL MIXES

SHADE PLANTING



Aconitum spp.



Lunaria



Vinca difformis

SUN PLANTING





Eremurus





Aster divaricatus



Helleborus niger



Tiarella spp.



Persicaria affinis



Digitalis



Blechum orientale



Polypodium



Polystichum



Osteospermum





Armeria maritima



Lupinus



Crocosmia

42



Digitalis purpurea



Helianthemum



Agastache





Aster



Perovskia





Thymus vulgaris

RAIN GARDEN PLANTING



Myosotis Scorpioides









Angelica Purpurea



Iris Versicolor

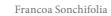
UNDERSTOREY / GROUNDCOVERS





Galium Odoratum





Luzula Nivea



Dianella Tasmanica



Phalaris Arundinacea

Mentha Aquatica



Juncus Articulatus



Silene flos-cuculi







Reed Borders



Wildflower Borders



Asarum Europaeum





Asplenium scolopendrium

Wildflower Borders







Zantedeschia Aethiopica





Heuchera Cylindrica



Crinum Asiaticum





Adiantum Aleuticum

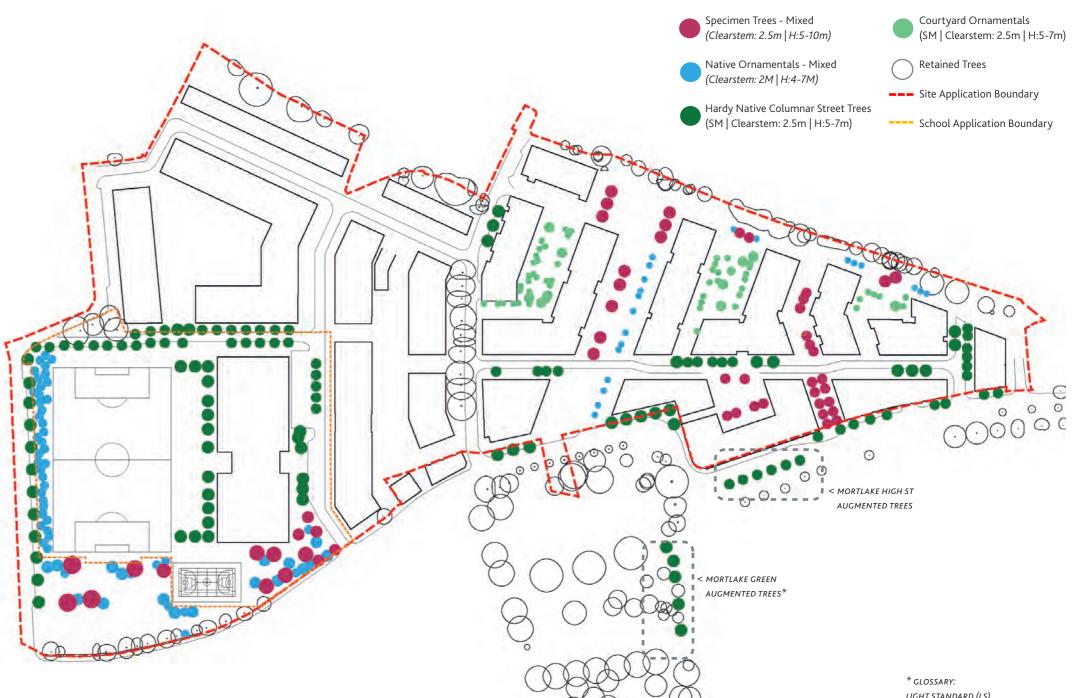
TREE PLANTING

STRATEGY

The proposed tree strategy can be broken down into the following landscape types and will be defined by the tree species shown in the indicative planting list and the tree strategy plan:

- 1. Retained trees: on-going husbandry and canopy management of the existing trees, alongside a new augmented tree planting to emphasise and enhance the amenity impact of any blocks of planting.
- 2. Large feature trees underpin pedestrian avenues and squares, framing the urban sphere by creating a soft backdrop and creating a shaded threshold to any main spaces; Clusters of small feature trees are informally scattered in large green area to provide shade and define more intimate spaces within.
- The Courtyards: mainly small trees will be chosen for their hardiness in 3. these conditions, light weight and light dappled canopy to ensure their suitability for the conditions encountered.
- Structural Street Tree Planting: along the streets, tree planting is to be 4. predominantly species with columnar canopies, allowing the trees to be situated in close proximity to the building massing & thereby providing shade and shelter from wind and giving seasonal interest in leaves, bark and form. Interspersed softscape bays and corners are populated with clusters that unify the street scene and define their own character.
- Augmented tree planting in softscape areas throughout the wider 5. masterplan: these are predominantly of a smaller habit, native species and mixed forms with some multi-stem species that have good seasonal qualities, suited to the spaces and anticipated light levels.
- Specimen trees: will be interspersed throughout the development in 6. selected parts of pedestrianised areas and in locations which present a good opportunity to host and display trees of particular merit.
- Native small trees will be located in a grove in the pocket park below the 7. school, providing community access and educational opportunities for students.

The selection will conform to the Borough's Greenscape Guidance - being a varied palette of predominantly native trees, with a sourcing preference for UK stock with adaptability to climate change, and comments received in consultation with LBRuT officers and the arboriculturalists engaged for the submission taken into account. Further information can be found in the Environmental Statement, appendices and addendums.



TREE PLANTING STRATEGY DIAGRAM

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Legend

LIGHT STANDARD (LS) STANDARD (S) SELECT STANDARD (SS) HEAVY STANDARD (HS) EXTRA HEAVY STANDARD (EHS) ADVANCED HEAVY STANDARD(AHS) (SM)SEMI MATURE

TREE PLANTING - TREE PALETTE





EG: QUERCUS ROBUR



EG: MALUS SYLVESTRIS



EG: PRUNUS SERRULA(STANDARD & MULTI-STEM)



EG: BETULA UTLIS V. JACQUIMONTII (STANDARD & MULTI-STEM)



EG: CRATAEGUS MONOGYNA





EG: VIBURNUM OPULUS



EG: CORNUS SANGUINEA



EG: ROSA CANINA

TREE PLANTING - TREE PALETTE





EG: ACER PLATANOIDES 'COLUMNARE'



eg: betula utlis v. jacquimontii (muti-stem)

EG: CORNUS SANGUINEA



EG: CARPINUS BETULUS 'FRANS FONTAINE'



EG: ACER CAMPESTRE 'STREETWISE'



EG: ACER GRISEUM

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EG: AMELANCHIER LAMARCKII

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Development Area 1	1
--------------------	---

	1 bed	2 bed	3 bed	4 bed
Market and Intermediate Units	116	295	140	7
Social Units	0	0	0	0

Total Units	558

Geographic Aggregation	London
PTAL	PTAL 0-2

Yield from Development

	Market &		
	Intermediate	Social	Total
Ages 0, 1, 2, 3 & 4	109.0	0.0	109.0
Ages 5, 6, 7, 8, 9 , 10 & 11	74.5	0.0	74.5
Ages 12, 13, 14 & 15	21.6	0.0	21.6
Ages 16 & 17	11.4	0.0	11.4
18-64	989.4	0.0	989.4
65+	23.6	0.0	23.6
Total Yield	1229.6	0.0	1229.6

Play Space Calculator

Total Children	216.6	1
r		2
	Benchmark (m ²)	Total play space (m ²)
Play space requirement	10	2166.0

Development Area 2

	1 bed	2 bed	3 bed	4 bed
Market and Intermediate Units	202	122	25	13
Social Units	12	63	84	6

PTAL 0-2

527

Geographic Aggregation	London

Total Units

PTAL

Yield from Development

	Market & Intermediate	Social	Total
Ages 0, 1, 2, 3 & 4	50.6	92.3	142.9
Ages 5, 6, 7, 8, 9 , 10 & 11	33.8	76.4	110.2
Ages 12, 13, 14 & 15	8.6	42.7	51.3
Ages 16 & 17	4.6	22.5	27.1
18-64	589.4	300.3	889.6
65+	14.1	6.9	21.0
Total Yield	701.0	541.0	1242.1

Play Space Calculator

Total Children	331.5

Benchmark (m ²) Total play space (m ²)			
Play space requirement	10	3314.6	

REQUIREMENTS AND OBJECTIVES

Playful Landscapes

Integration of play and playable landscapes is a major element in the development of the landscape and public realm for this site. The site is designed to limit and manage vehicular traffic, with access for service and emergency vehicles only at ground level. All residential, retail and visitor cars are located at basement level, providing a pedestrian dominated environment throughout Development Area 1, a similar approach will be adopted across Development Area 2 to create a pedestrian friendly environment.

Play space for all age groups is proposed across the Stag Brewery site and consideration of existing facilities in the area has influenced the approach to provision of play. The inclusion of a Secondary School within the site is also taken into account, with the intention of the developer to establish a community agreement for shared access to sporting and play facilities for the local community on site.

The calculated child yield (based on unit numbers and mix) has informed the quantum and distribution of space allocated for play and are calculated separately for Development Area 1 and Development Area 2. Residents will have access to play within the private and public amenity space of the masterplan, and in the wider context of the proposed community park, Mortlake Green and surrounding area.

The mix and unit number for Development Area 2 has not yet been fixed, therefore the playspace has been generated on an assumption in order to enable the scheme to be designed with sufficient capacity. It is worth noting that the Affordable mix isn't fixed and the maximum child yield has been assumed to calculate the maximum play space.

The play strategy accords to current best practice guidelines for play, including the London Supplementary Planning Guidance "Providing for Children and Young People's Play', Play England's "Design for Play: A guide to creating successful play spaces" and LBRuT Supplementary Planning Document "Residential Development Standards". London Play (GLA) aims for every child in London to have quality, accessible and inclusive play opportunities.

Objectives for Play

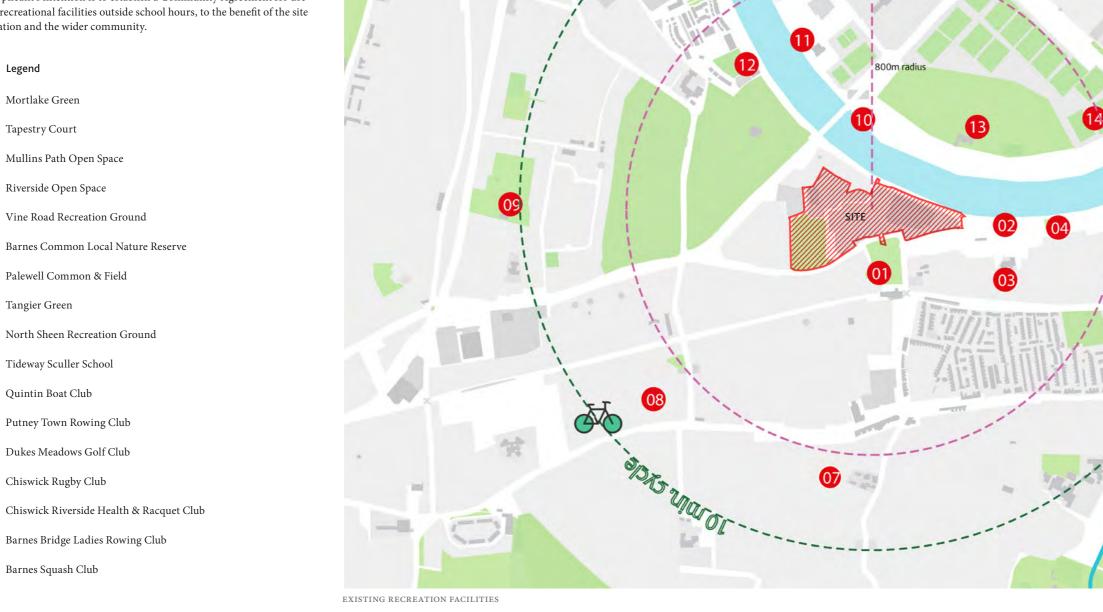
The landscape masterplan objectives for play provision include:

- The integration of play provision within an overall open space strategy, recognising that play can take place in a variety of settings which may or may not involve equipment;
- The provision of opportunities for accessible play to occur within the whole environment that a child occupies;
- Ensuring a well-defined and overlooked 'playable route' along key pedestrian connections;
- The creation of locally accessible 'greenspace', including playable elements and seating opportunities;
- Exploring opportunities to introduce natural elements of risk and challenge within play provision while considering safety and maintenance;
- The concept of a 'Playable Route' or 'Play on the Way' within the 'homezone' where opportunities for informal play are woven into the proposed public spaces rather than providing stand alone fenced off play areas;
- Improvements to the nearby play areas in the park to accommodate the extra demand.
- Access to river based activities rowing or canoeing

EXISTING RECREATION FACILITIES

The site benefits from a number of existing surrounding open spaces and recreational facilities as shown. In particular, the long established open space of Mortlake Green provides a significant landscape setting and recreational asset to the site and the design maximises this connection.

Discussions with council indicate the majority of these, including children's playgrounds, are used to capacity. Planning of the development has therefore endeavoured to provide for all stipulated play requirements within the site. Facilities within the Secondary School have been considered, in part, as the Applicant's intention is to establish a Community Agreement for use of the recreational facilities outside school hours, to the benefit of the site population and the wider community.



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GILLESPIES

01

02

03

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(11)

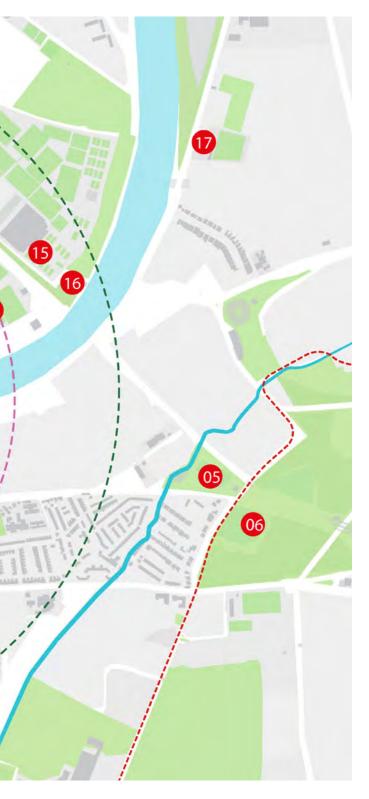
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16



PROPOSED PLAY DISTRIBUTION

The provision and distribution of play facilities within the site has been developed within the overall Masterplan and aligns with recommendations of GLA (Play and Informal Recreation SPG 2012) and London Borough of Richmond upon Thames (Planning Obligations SPD 2020).

Play facilities for different age groups are positioned within residential courtyards, parks, plazas and open space areas around the site, to achieve the required areas of play and the distribution related to residential apartments, as set out below:

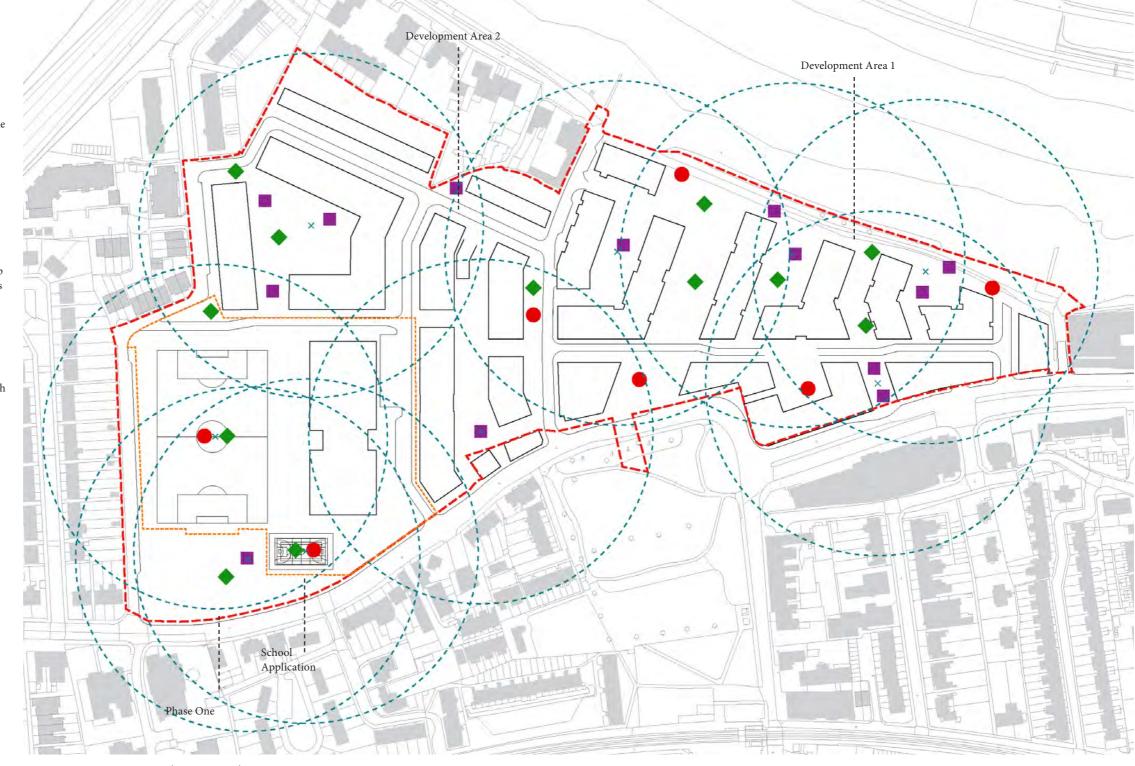
- » Doorstep Play (Under 4) within 100 metres of residential units
- » Local Playspace (5-11yrs) 400 metres
- » Neighbourhood Space (12+yrs) 800 metres.
- » Play on the way (All ages)

This diagram indicates proposed location of play facilities for each age group and 100m walking distances from each location. Play elements and facilities are provided in a range of forms within the public and private realms of the development, including designated and fenced playgrounds, unfenced but contained play spaces with a range of play elements and carer seating, topographic variation and play opportunities in the landscape (within planting areas) and 'play on the way' elements within circulation spaces and public realm areas. Proposed development of a rowing club facility in the base of Block 09 at the eastern send of the site with direct link to the tow path and Bulls Alley slipway will provide additional recreational functions for older children.

Refer to more detailed precedent studies in this report.



---- School Application Boundary



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PLAY FACILITIES DISTRIBUTION (BY AGE GROUP)

STAG BREWERY LANDSCAPE DESIGN AND ACCESS STATEMENT

PROPOSED PLAY PROVISION

The GLA Population Yield Calculator (2019) requirements stipulate a target of 5,480.7 m² of dedicated amenity play space is required within the site as a whole (Development Areas 1 and 2), while LBRuT play standards require a target of 7,542 m². The current masterplan allows to exceed GLA required play space without considering the school facilities for Development Area 1 and when considered holistically the total quantity of play achieved will exceed that required by LBRuT.

The proposed configuration of play space for different age groups has been developed as shown on this diagram.

Tables 1 and 2 illustrate the targets and achieved provision of play space for the different age groups. Table 1 contains the description of play requirements for Development Areas 1 and 2 only while Table 2 includes both of these areas and the School site in its calculations in addition to areas that may be subject to overshadowing.

For calculation of the school facilities (indoor and outdoor) a weighted contribution has been included in achieved play for 4 years and above in line with the intention to arrange a community use agreement with the residential community. We have calculated these facility areas on the basis of intermittent use outside school hours (during week nights and weekends) as 2/7 of the actual space.



INDOOR SCHOOL SPORTS HALL /ACTIVITY STUDIO



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SITE WIDE PLAY PROVISION

[#]Derived from eb7 document 2201_R16_SA01 ** Indoor sports hall and activity studio contribution

1000		1	A state of the sta					
d	Actual playspace achieved (Excluding school)	Play Space required GLA (Sqm) Development Area 2	Actual playspace achieved (Excluding school)					
	1,306	1,429	1,850					
	1,996	1,102	1,445					
	680	784	193					
	3,982	3,315	3,488					

	0								
e	(Excluding	Actual playspace achieved (Excluding school) of which in sunlit/shaded* area		School Playspace contribution (as 2/7 of the actual	Actual playspace achieved				
	Total	Sunlit	Shaded	space)	(Including school)				
	3,156	2,115	1,041	0	3,156				
	3,441	1,986	1,455	898 + 55.4**	4,395				
	873*	859	14	1,765 + 185**	2,823				
	7,470			2,903	10,374				

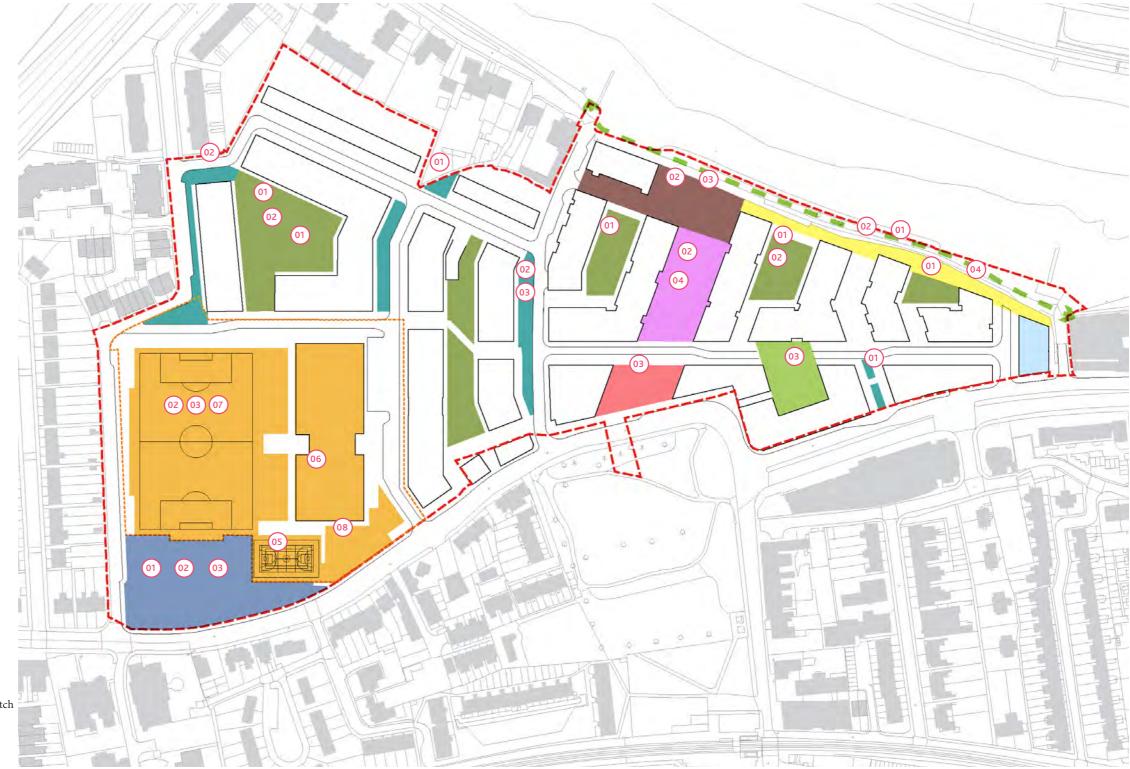
PLAY STRATEGY - SITE-WIDE APPROACH

BREAKDOWN OF SPACES

In accordance with best practice and policy including Shaping Neighbourhoods: Play and Recreation (Mayor of London, 2012) and Site Layout Planning for Daylight and Sunlight (BRE Trust, 2nd edition) play spaces and equipment are, wherever possible, located within areas that receives sunlight throughout the year. Further information relating to the sunlight amenity assessment utilised in the allocation of play space was produced by Eb7. Not only does this improve the visual amenity of the play spaces and their setting it increases their usability year round across all age groups and encourages healthy tree and plant development where integral to play. Each courtyard and open space containing play facilities has been indicated, with the age groups referenced.

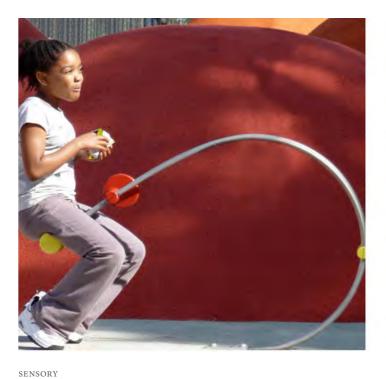
The facilities within the School development are proposed to be made available to the wider community outside school hours and under the auspices of a Community Agreement.





TYPES OF PLAY ELEMENTS

The design concept for the public realm is to facilitate incidental playable space throughout the scheme with dedicated areas to cater for 0-18yrs through Doorstep and Local Playable Spaces as defined by the SPG.





CONSTRUCTION



CHALLENGE



TOPOLOGY

SCULPTURAL

INCIDENTAL / SAFE ROUTES

FIXED PLAY EQUIPMENT

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PLANTING

SEATING

GILLESPIES

1



TOPOLOGY



SPORTS EQUIPMENT

DOORSTEP PLAY (0-4 YEARS)

Opportunities for informal play including lawn, mounds, and natural features. Play elements would include:

- Within 100m of each residential apartment
 Land forms including small hillocks and grassed mounds (1)
 Climbing, stepping and jumping blocks set within grass areas (2)
 Small scale play equipment with softfall surface material (3)
 Stepping stones for balance and clambering (4)

- » Sensory play elements (5)
- » Seating in close proximity for parents and carers





PRECEDENT IMAGES ABOVE SHOWING DESIGN INTENT.









LOCAL PLAYSPACE (5-11 YEARS)

Opportunities for informal playable landscape features as well as more formal play elements set within area(s) of soft play surface to cater for older children:

- Within 400m of doorstep
 Natural play features as for 0-5 years
 Low walls, seats and stepping stones for balance and clambering (1)
 Small climbing structures (2)
- » Landscaping to create natural feel, including changes in level (3)
 » Equipment that allow children to swing, slide and climb (4)
- » Sensory play elements (5)
- » Seating areas adjacent to equipment and play space
- » Water play (if possible)





PRECEDENT IMAGES ABOVE SHOWING DESIGN INTENT.







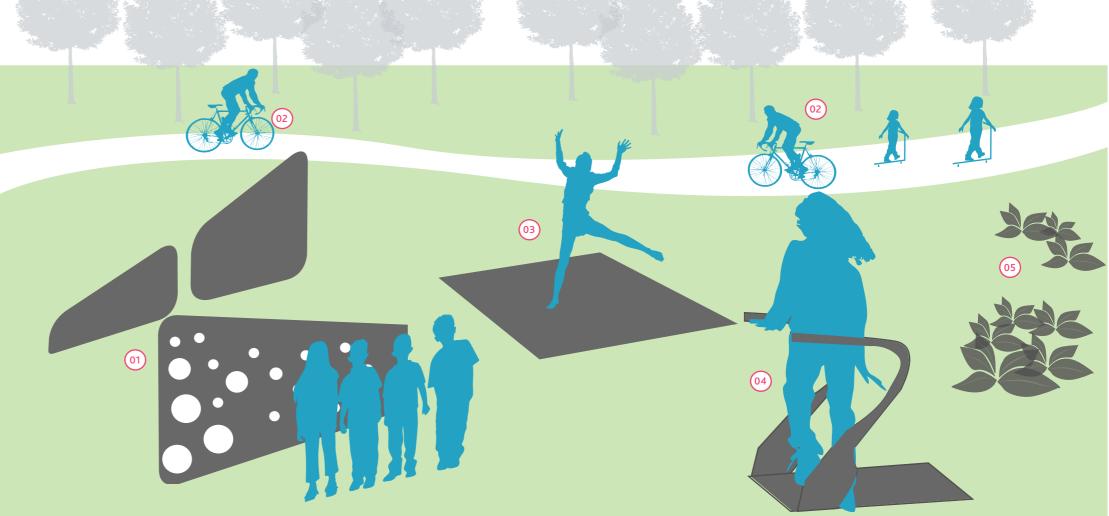




Opportunities for teenagers to play can be integrated into public realm landscapes of the site such as Malting Plaza, Entrance Plaza and Bottleworks Square.

These facilities can include:

- location preferred within 800m of doorstep
- Table tennis tables (1)
- •
- Outdoor gym facilities / Jogging and cycling trails (2) Spaces and facilities for informal sport or recreation activity e.g.. •
- climbing walls or boulders, exercise trials, outdoor exercise equipment (3)
- Shared surfaces- suitable for skating, cycling or roller-blading (4) •
- Multi-Use Games Area (MUGA) (5) •
- Multi-use all weather sports pitch (School) •
- Seating areas on the edge of the activity spaces .
- •
- •
- Boules, piste and elderly/ family play Topographic variation within landscaped areas Rowing Club or other organised sporting facilities / groups •





PRECEDENT IMAGES ABOVE SHOWING DESIGN INTENT.

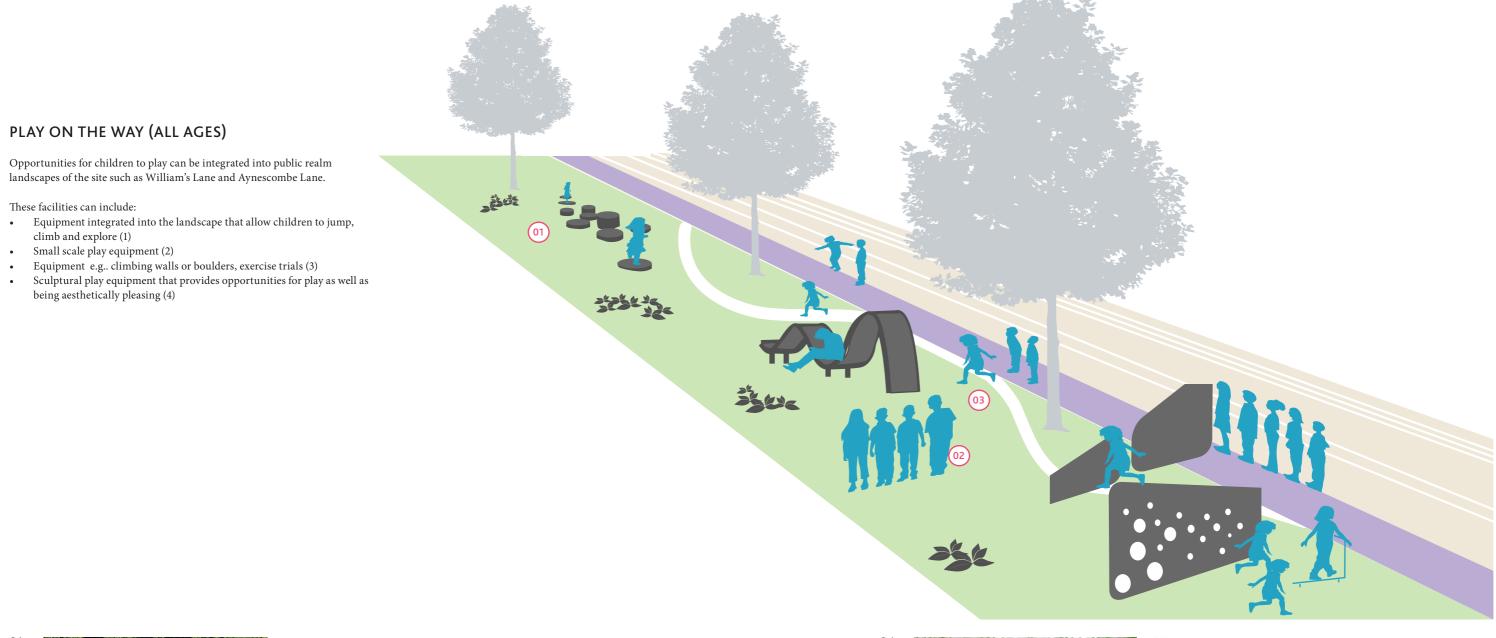














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DOORSTEP PLAY FACILITIES FOR RESIDENTIAL COURTYARDS



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PRECEDENT IMAGES BELOW SHOWING DESIGN INTENT:

LOCATION PLAN



'PLAY ON THE WAY' ELEMENTS WITHIN GREEN LINK





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PRECEDENT IMAGES BELOW SHOWING DESIGN INTENT:



'PLAY ON THE WAY' ELEMENTS IN STREETSCAPE/RIVER TERRACE



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LOCATION PLAN





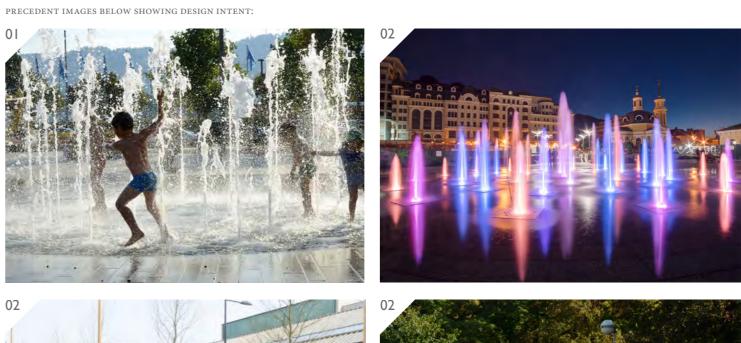
PRECEDENT IMAGES BELOW SHOWING DESIGN INTENT:

WATER PLAY AND WATER JETS AT MALTINGS PLAZA





LOCATION PLAN





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STAG BREWERY LANDSCAPE DESIGN AND ACCESS STATEMENT