



PLACE
Design+Planning



St Helen's School

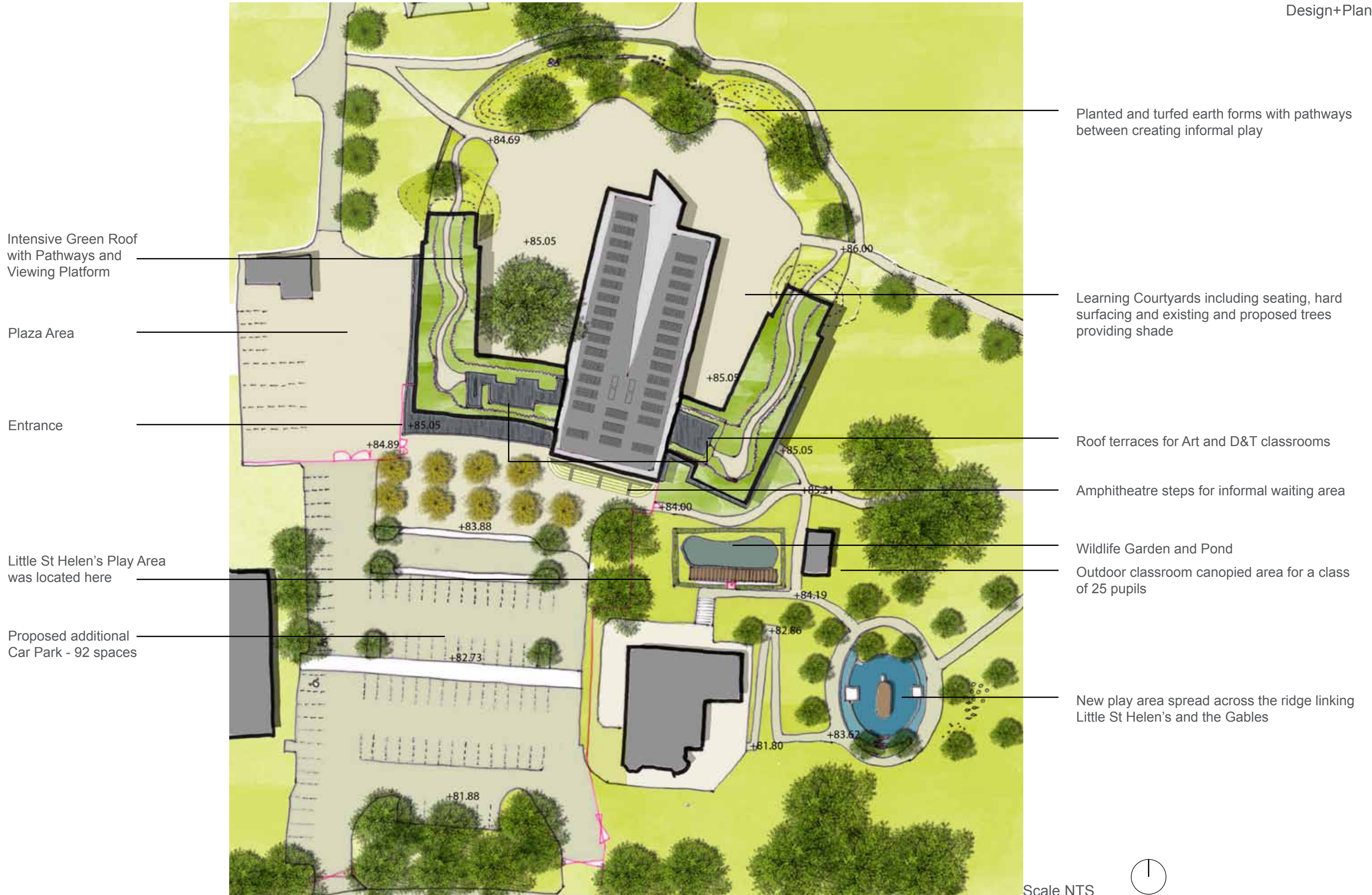
Landscape Strategy

July 2014

Rev E

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1. Landscape Masterplan



2. Bird's Eye View of Landscape Scheme of Entrance Landscape and Roofs

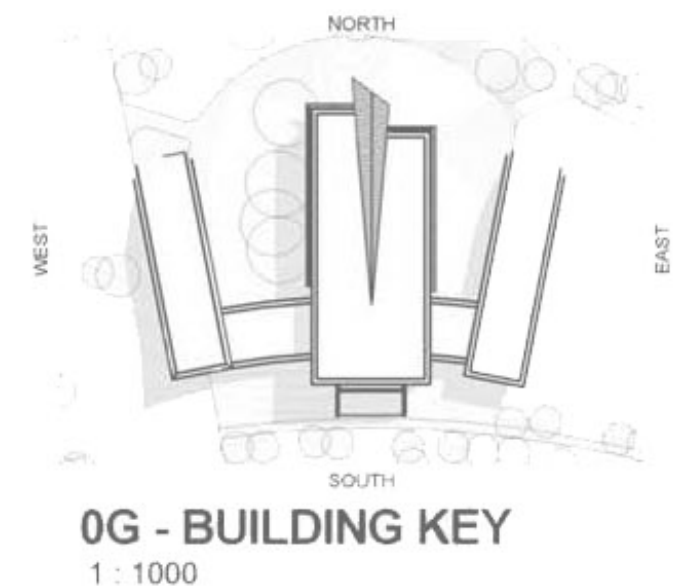


An illustration looking north east towards the building. The playable landscape mounding to the north (amongst the existing trees) links the east and west wings of the building which will have open access for pupils and staff to venture up onto the rooftop viewing areas.

LEFT Image of amphitheatre steps for casual waiting areas and coloured Macadam surface which would allow for both vehicular traffic area and a informal parking and/or event area.



3. Illustrative North Elevation



4. Learning Courtyards



The Learning Courtyards will be predominately hard communal areas for gathering, socialising and informal lessons and play. Moveable seating will be provided for staff to arrange for specific activities. Paving could be resin bound gravel surfacing with the possibility to include a mosaic produced by the school.

The existing lime tree with proposed groundcover planting beneath provides shade and vertical accents.

Landform elements of turf mounds and valley pathways punctuated by existing and new tree planting provide a landscape of adventure and fun to the north of the proposed junior school building.

This aims to complement the roof forms of the proposed building and help the building to nestle into the existing site.

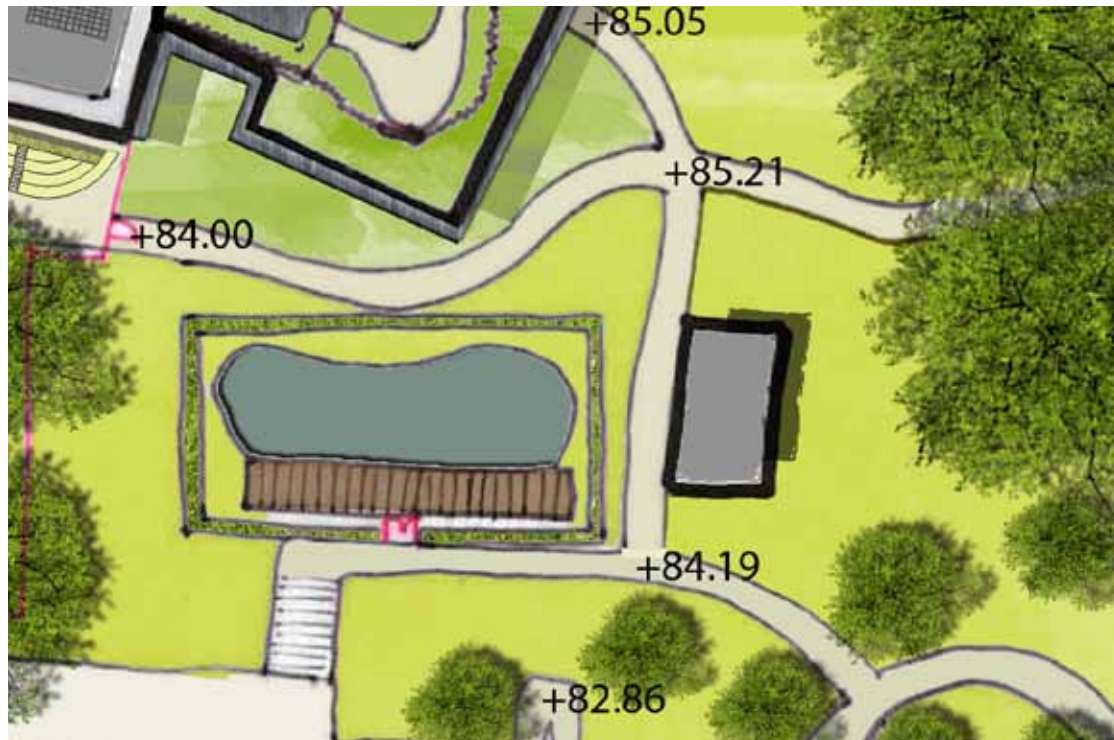
Place D + P generated visual images, showing ideas for the interface between learning courtyards and sculpted turf mounds covered in summer wildflowers.

Ideas for seating and shade structures are also demonstrated providing spaces for learning, relaxation and informal play.

Please review Playground Inspection and Maintenance Report, St Helens School, March 2014. All equipment to be relocated in accordance with BS EN 1177.



5. Outdoor Classroom



Outdoor Classroom Canopied Area overlooking the wildlife pond. A new path links to the eastern entrance to Junior School

An area adjacent to the new Junior School Building forms an occasional outdoor classroom for use at warmer times of the year.

The space is linked to the proposed new building by a short pathway.

The seating and surfacing to be confirmed by school - potential reuse of timber from removed trees to form stump seats.

A canopy above the space shall provide shade and protection from light rainfall.

Existing and additional tree planting is used to form a backdrop to the space and anchor the area into the landscape.

The following images illustrate the types of canopies we have installed at schools in the past few years.



Canopy structure installed at Clapton Girls School, Hackney



Canopy structure installed at Cardinal Pole, Hackney



Canopy structure installed at Oasis Academy, Mayfield

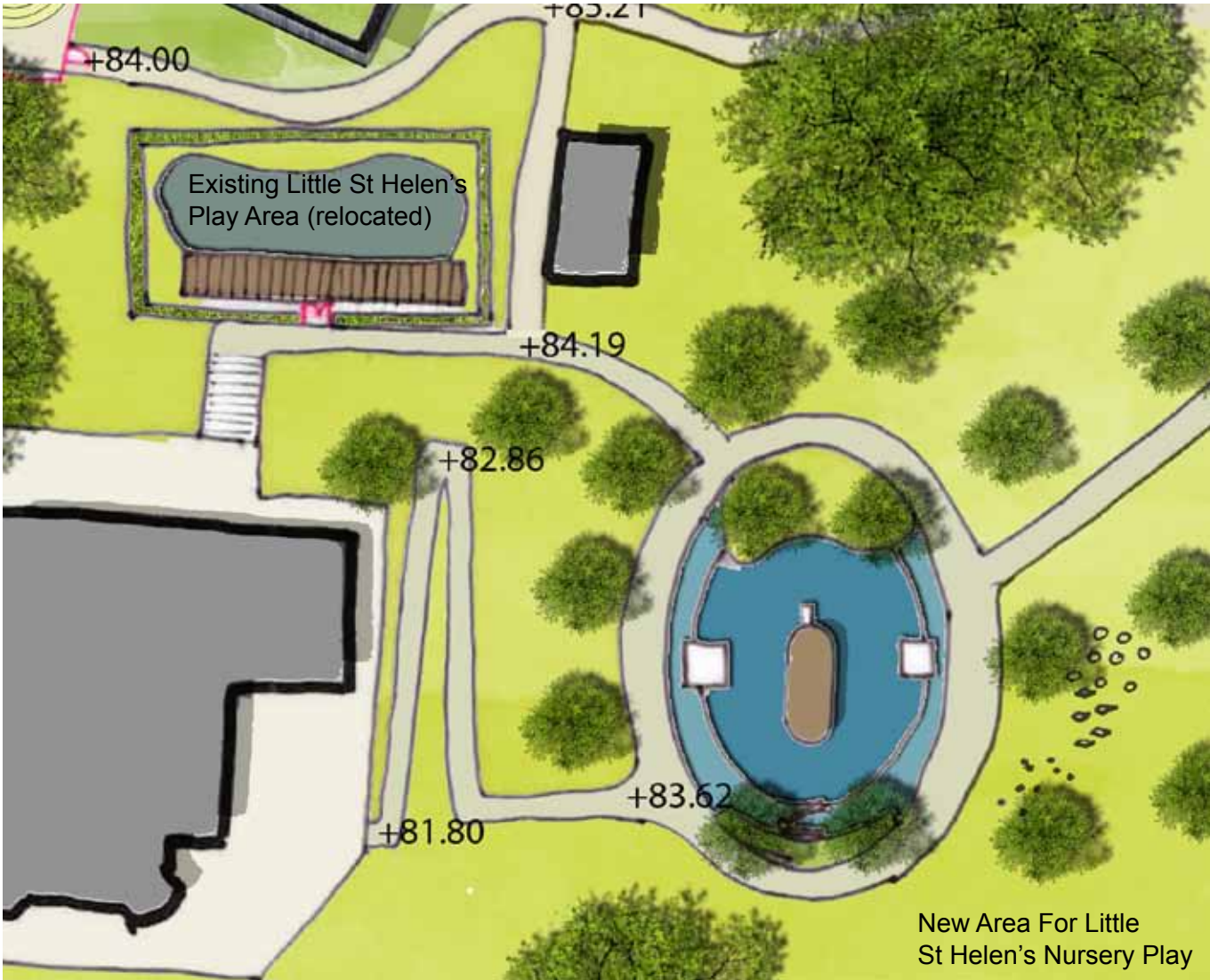


Canopy structure installed at New Line Academy, Maidstone



A woodland shelter will be created to form the outdoor classroom. Formed of a mixture of metal core and timber cladding, it will provide a rustic shelter from shade and light rain. It could include an extensive green roof which (along with the surrounding tree planting) would help to bed it into the landscape structure of the site. Views of the roof would be possible from the roof of the junior school.

6. Little St Helen’s Nursery - Play Area



The existing Little St Helen’s Nursery play area is to be relocated from its present position to the east of the Little St Helen’s building to enable the construction of the new Junior School.

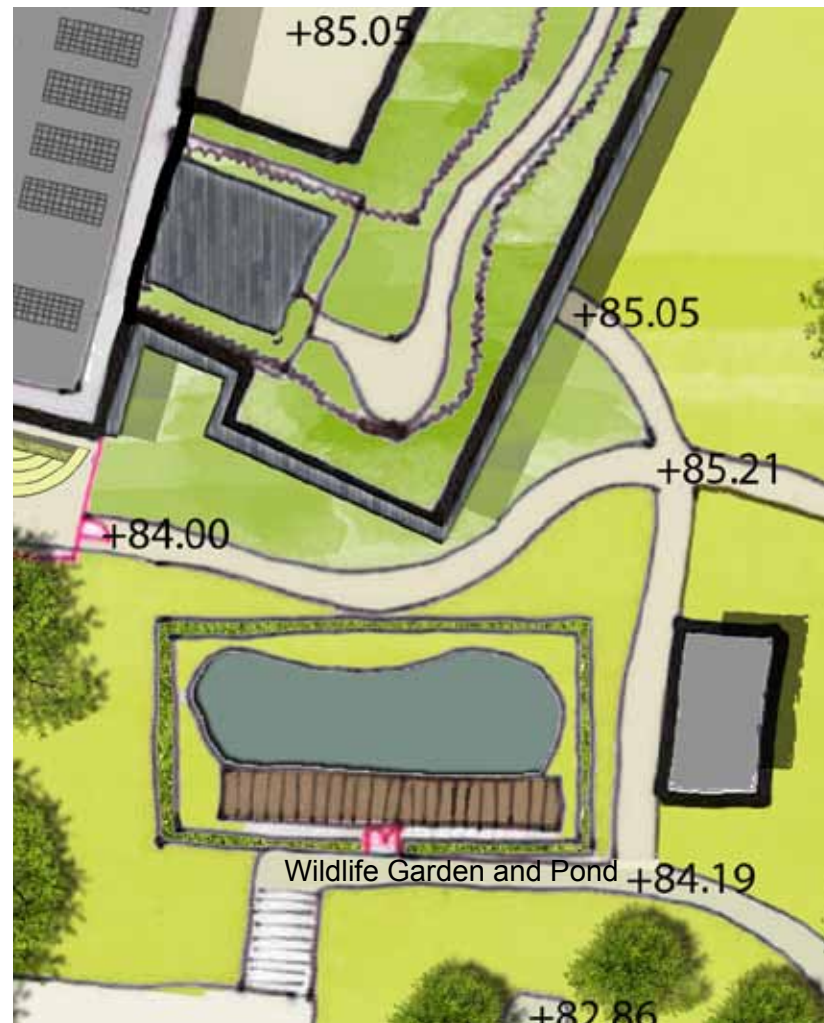
Play equipment to be refurbished and relocated or replaced where necessary, in accordance with EN:1176 (play equipment) and EN:1177 (safety surfacing). A Registered Play Inspector will carry out a Post-installation Safety Inspection to ensure the works have been carried out to best practice.

The design of the new area shall concentrate on the following:

- Adventure;
- Exploration;
- Learning through play; and
- Safety



7. Wildlife Garden and Attenuation Pond



A pond with boardwalk style 'dipping' platform forms the central element to a wildlife discovery and learning area.

Mown pathways and stepping stones will be created through native planted areas and wildflower drifts.

Seating for the class would be beneath the outdoor classroom canopy

Plants are chosen for:

seasonal interest;
textural variety;
wildlife habitat creation;
biodiversity; and
edible nature.



Log piles for wildlife habitat creation



Stepping stone pathways through planting



Marginal planting around pond edge (eg Butomus umbellatus)



Planting for seasonal interest (eg Corylus avellana purpurea)

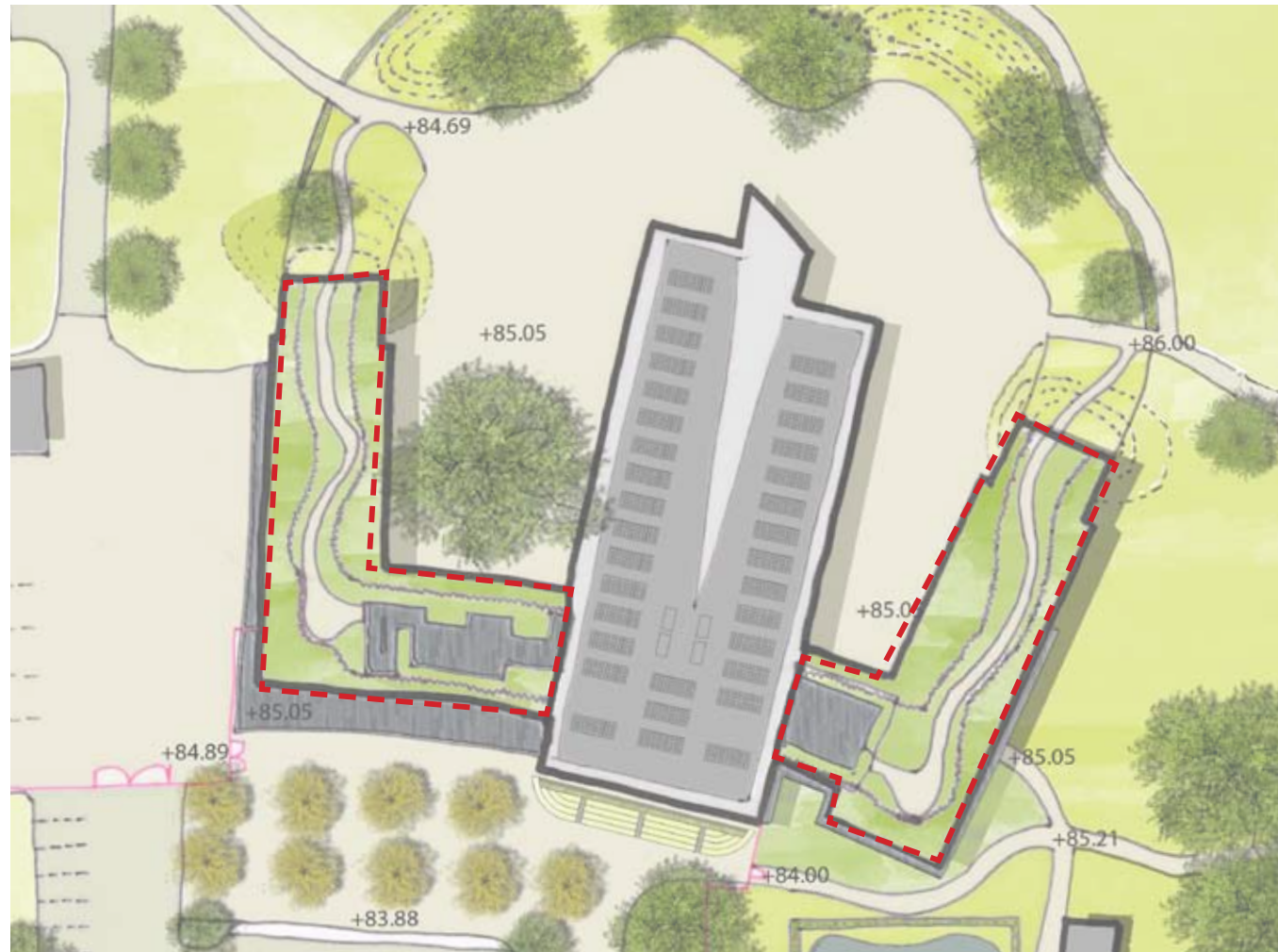


Pond dipping activities for discovery and exploration of underwater life



Pond provides further educational back drop to amphitheatre seating arrangement

8. Green Roofs - Intensive Roof



Initial Plant Palette



Armeria maritima



Phlox douglasii 'Iceberg'



Achillea millefolium



Potentilla erecta

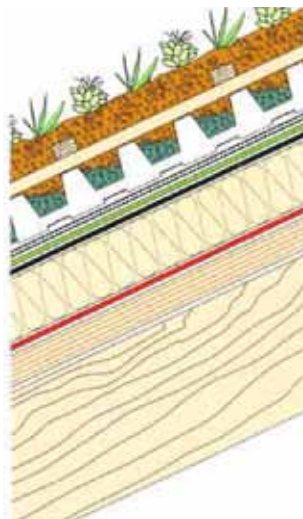


Liriope muscari



Stipa tenuissima

For slopes between 15 - 25 °, an untreated timber trellis is used to help retain the substrate until the plant roots have established, after which time the trellis is superfluous and will rot away.



Meandering deck pathway creates serpentine journey along length of roof



Intensive green roof rising from ground level



Steep gradient green roof treatment

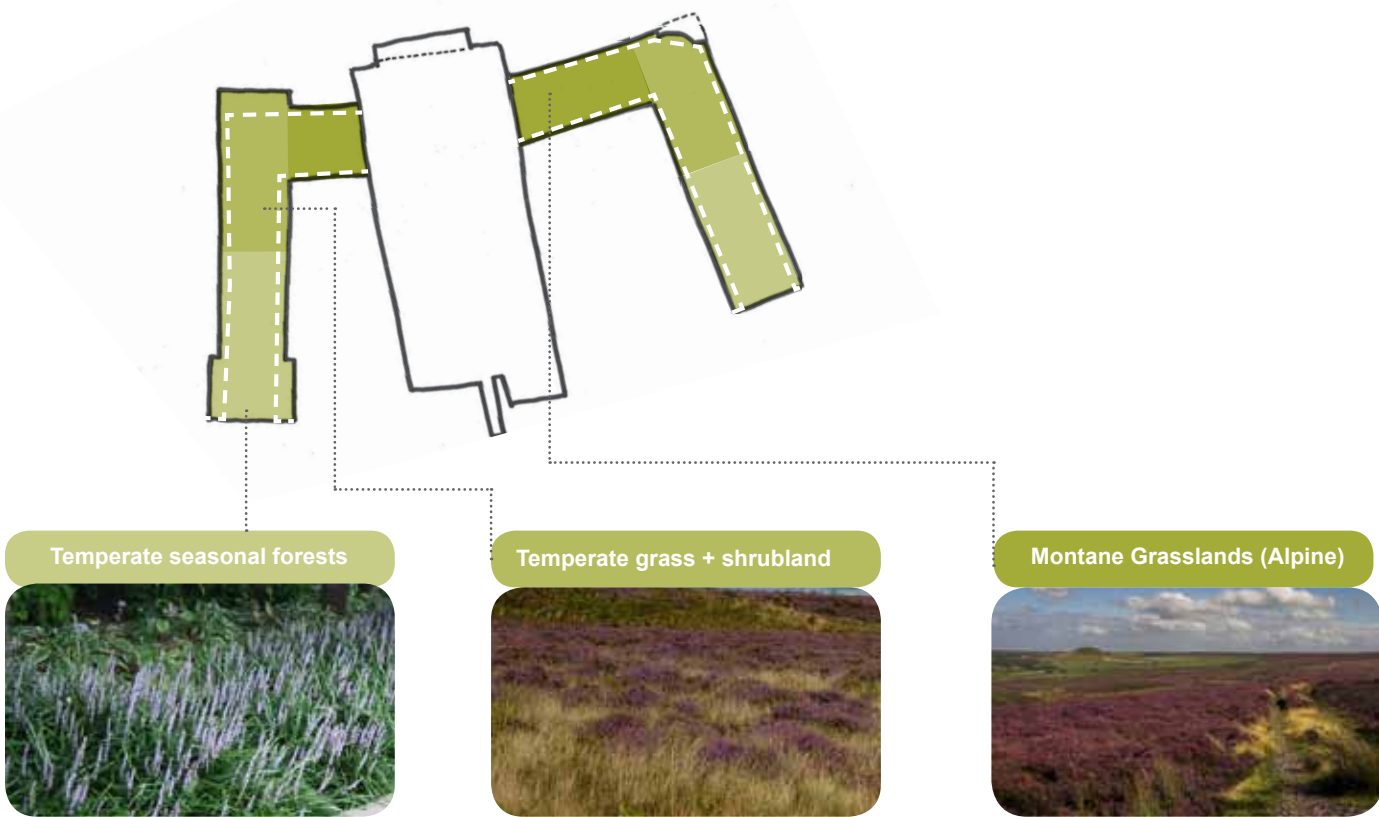


Intersecting hedges at roof edge to hide safety rail



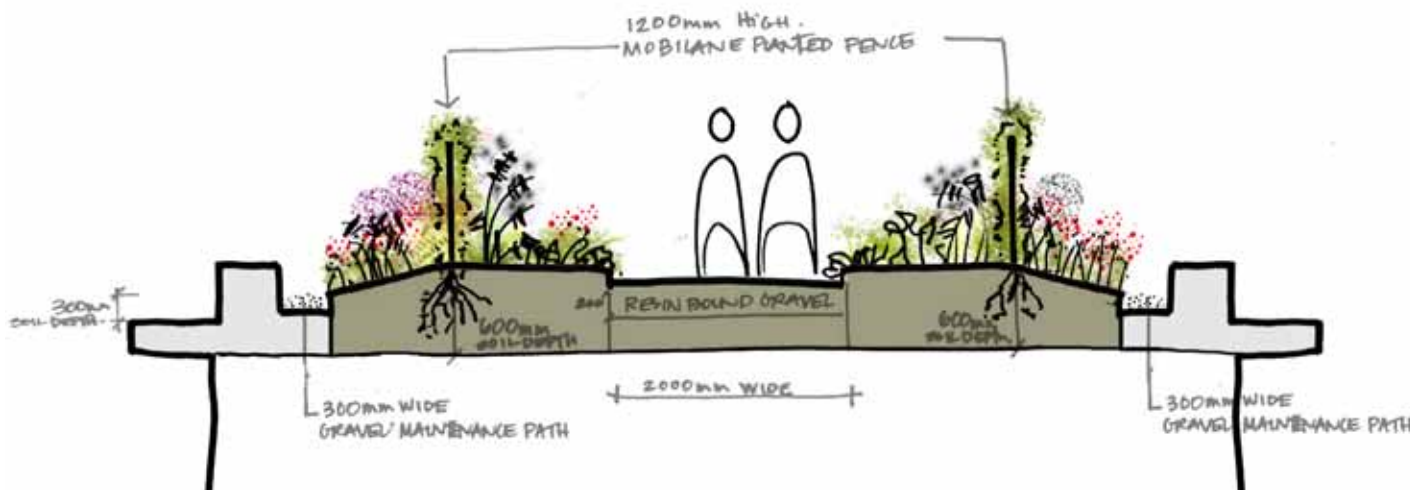
Access onto green roof could be via a ramp or steps with willow arches allowing safe access to roof top

Ecological Biome Planting Scheme



Biomes and ecozones		
Terrestrial biomes	Polar/montane	Tundra • Taiga, Boreal forests • Montane grasslands and shrublands
	Temperate	Coniferous forests • Broadleaf and mixed forests • Grasslands, savannas, and shrublands
	(Sub)tropical	Coniferous forests • Moist broadleaf forests • Dry broadleaf forests • Grasslands, savannas, and shrublands
	Dry	Mediterranean forests, woodlands, and scrub • Deserts and xeric shrublands
	Wet	Flooded grasslands and savannas • Riparian • Wetland

Typical Detail of Path at Ground Level

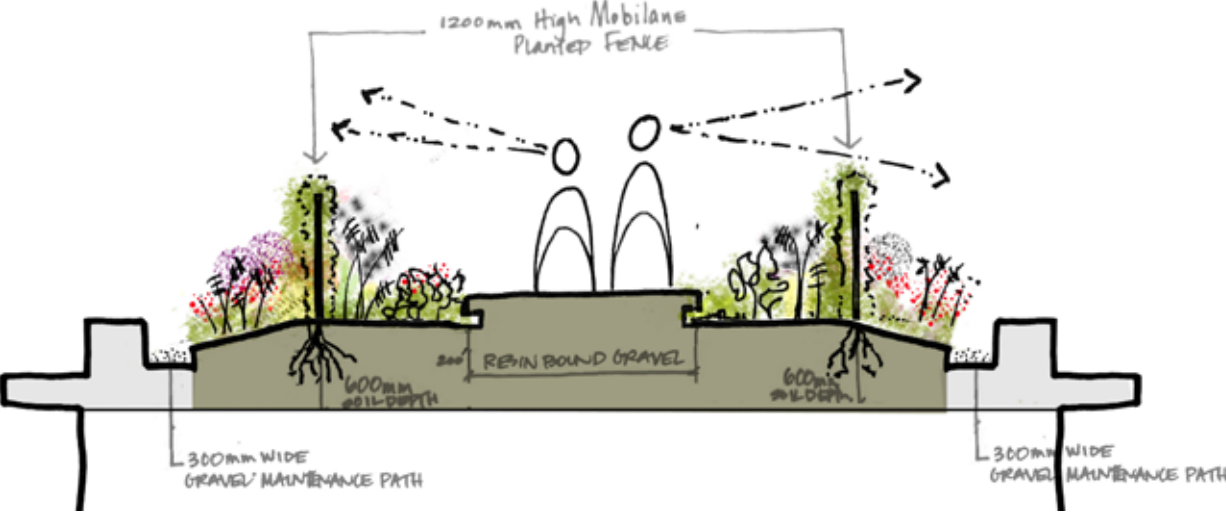


Mobile Green Screen



Glass portal opening up views through screen

Option of Typical Detail of Raised Path



NOTE: All details to be coordinated with architect's building edge.

Temperate Seasonal Forests



Abelia x grandiflora

Temperate Grass & Shrubland



Stipa tenuissima

Montane Grasslands (Alpine)



Sedum acre



Liriodendron muscari



Ceanothus 'Judy Coulter'



Lavandula x intermedia 'Grosso'



Perovskia 'Blue Spire'



Sedum repens 'Angelina'



Sedum spectabile



Santolina chamaecyparissus



Sedum alba



Sempervivum tectorum



23 trees will be removed to facilitate the development of the Junior School. These range in size and category with two holding TPO status and ten in the conservation area.

However the proposals provide the opportunity to retain the small leafed lime in the centre of the western courtyard and mature oaks to the north which will form the boundary to the school playground.

A substantial number of new trees are proposed across the whole school site, not just the Junior School, to enhance and maintain the school's strong parkland style landscape long into the future.

Further information on the existing trees can be found in the tree survey carried out by MJC Tree Services Ltd.



-  Orchard trees
-  Avenue trees
-  Woodland native trees
-  Ornamental trees
-  Courtyard trees
-  Existing trees retained

The tree strategy seeks to enhance and integrate the built form into the parkland setting that is St Helen's School grounds. The trees will be used to provide a structure to the different areas around the Junior school, from demarcating the routes through to defining the playground spaces. Many of the trees are varieties of natives, cultivated specifically for planting amongst built form with narrower crowns than their native forms.

The grouping of trees provide character to the spaces, woodland style planting within the playground, orchard style around the wildlife area, replacing new for old and ornamental to the arrival spaces.

Varieties include: Hornbeam, oaks, magnolias, liquid ambers, scots pine, rowan, field maple and cherries.



Avenue trees



Courtyard trees



Orchard trees



Woodland native trees



Ornamental trees

Hardscape Options



Entrance
Tagenta E Natural Stone Setts
105x200x100mm
Hardscape, Kellen



Entrance Plaza
Resin Bound Gravel
Addaset
Colour: Autumn Gold (option)



Timber Decking
John Brash Standard Timber Decking

Furniture



Vestre
Code Modular Furniture



Footpaths
Breedon Gravel
Colour: Pale Yellow



Entrance Plaza
Resin Bound Gravel
Addaset
Colour: Silver (option)



Fencing

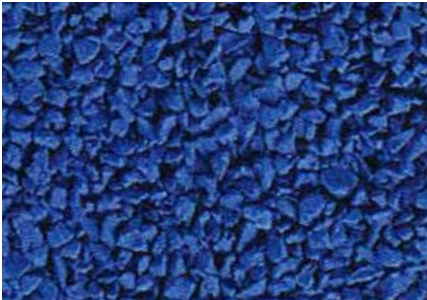
Retractable Fencing
Jackson's, or similar approved
1.1m high



Boulders
Boulders for child play



Footpaths
Breedon Gravel
Colour: Pale Yellow



Rubber Play Surface
Rubber Wet Pour
Colour: Dark Blue



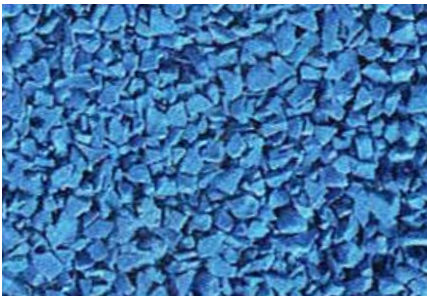
Green Fence Line
Mobilane, or similar approved
1.2m high



Tree trunks
Tree Trunks (felled from site trees) for child play



Roof Terrace
Marshalls Slabs
Colour: Silver Grey
450x450mm
Pedastals TBC



Rubber Play Surface
Rubber Wet Pour
Colour: Sky Blue



Recycled Tyres
Recycled Tyres for child play



Rubber Play Surface
Rubber Wet Pour
Colour: Egg Shell

The car park will be mitigated by tree planting to break up lines of parking into shorter more defined lengths. The hard landscape finishes, including play areas, will be selected to provide a porous finish as required to allow natural percolation of surface water into the ground.

11. Site Images

