Education

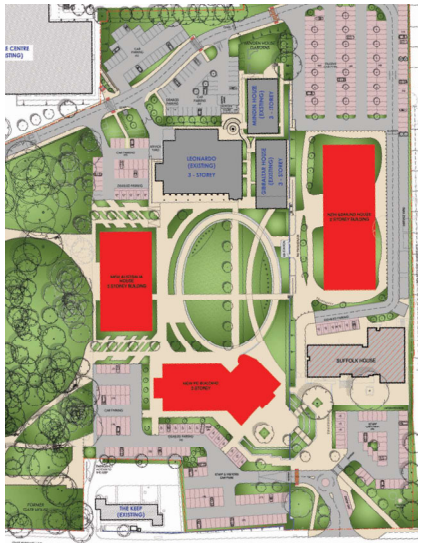
- *West Suffolk College Redevelopment, Bury St Edmunds, Suffolk*
- *Weatherall's School Extension, Soham, Cambridgeshire*
- *New Soham 3rd Primary School, Cambridgeshire*
- *Orchard Park School Extension, Impington, Cambridgeshire*
- *Shirley Primary School Renovation, Cambridgeshire*
- *School Campus Extension, Redbridge, London*
- *Multiple Schools, Norfolk & Suffolk*

In addition to the Case Studies illustrated, ELD has also provided design solutions for the following School's projects:

- **Shirley PS, Cambridgeshire**
- **Kings Hedges PS, Cambridgeshire**
- **Brampton VPS, Cambridgeshire**
- **Breckland Middle School, Brandon, Suffolk**
- **Saxmundham Free School, Suffolk**
- **Beccles Free School, Norfolk**
- **Drayton PS, Norfolk**
- **St. Cedds School, Chelmsford, Essex**
- **St Peter's CE PS, Lewes, East Sussex**
- **Loxford PS, London Borough of Redbriedge**

Education ~ West Suffolk College

Bury St. Edmunds, Suffolk



Landscape Masterplan.

Detailed Landscape Proposals.

Architect's Sections of the New FE Building.

Suffolk House, Now Renovated.

Project Description
West Suffolk College provides Higher Education Courses at the Bury St. Edmunds Campus of University Campus Suffolk. Located within the curtilage of a listed Garrison Wall, the campus contains a variety of contemporary & 1960s high rise buildings that have been identified for replacement & renovation as part of an overall strategy for redevelopment. This remodelling of the buildings has required a full redesign of the landscape setting around & between buildings, including a new entrance detail to the first phase of development, the FE building.

The first requirement was to develop a site strategy masterplan for the main campus area, based around the removal & replacement of 3 existing buildings (shown in red). Mature London Plane trees were considered for retention to break up the built form as a strategic element of existing vegetation. The masterplan comprises a new oval shaped central courtyard, with space for informal recreation combined with quiet space, bordered by floristic borders & a strategic planting scheme. The wider site car parking & arboretum were not part of the scheme.

This was followed by the detailed development of the area around the FE building & the need to traverse significant level changes, as the new access passed through the listed, garrison retaining wall. To overcome levels issues, a detailed set of steps was developed along a new central axis, leading to the new building entrance. These steps are to provide access in a straight line from the highway into the site that avoided antisocial behaviour & lingering of students. To prevent such use, the steps will be formed with a very wide tread, that is planted with a ground cover block of box hedging, clipped as a flat surface to the left & right of the pedestrian access. An alternative DDA compliant ramp provides a second access, retained by gabion structures & new planting.

Taking elements from the building design, the hard landscape reflected colour & tone, using recycled constitute granite paving in grey, black & maroon colours to define the external spaces. No dig construction was required around trees to prevent damage to the mature tree roots.

The FE building detailed design gained planning approval in June 2011. Suffolk House renovations were completed in 2012.

ELD Requirements
- To undertake a site visit to meet with the Client & understand the brief;
- To complete a tree survey, AIA to BS 5837: 2005, (current at the time);
- To complete Phase 1 Habitat Survey with recommendations for BREEAM rating enhancements;
- To prepare concept designs for both strategic masterplanning & the detailed FE building design;
- To prepare supporting Design & Access Statement Reports,
- To prepare a report containing details of materials palettes for planting & paving
- Present materials selected to the Head of College for approval;
- To produce detailed hard & soft landscape design for the scheme with a schedule of quantities & specifications for planting & maintenance to gain planning approval & act as contract tender drawings.

Project Particulars
Client: West Suffolk College
Architect: Pick Everard
Capital Value: £9 million

ELWOOD LANDSCAPE DESIGN LTD
The Barn Cherry Tree Farm Mendlesham Green Stowmarket Suffolk IP14 5RQ
t: 01449 768828 e: team@e-l-d.co.uk www.e-l-d.co.uk ELD online photo library at www. elwoodlandscapedesign.smugmug.com

Education ~ Weatherall's School Extension

Soham, Cambridgeshire

Landscape Masterplan.

Project Description
A proposed extension to the existing school, providing 630 places, instead of the current 420 places, with associated landscape improvements & outdoor learning facilities.

It was necessary to assess trees, ecological value & provide a detailed landscape design strategy with supporting reports, to be developed over 3 phases of construction; specifically to include Milestones 2, 3 & 4 for Phases 1 & 2. The first phase has already been completed, with the construction of a new grass & hard court sports facility, with extensive tree planting, setting the context for the future phases of development. This will provide the additional site area required by the school as it expands to 3FE.

Under Phase 2, a two-storey extension is to be added to the existing building which will provide a new entrance, sports hall & additional classrooms, with remodelling of the car park to provide separate parking for the School & adjacent Health Centre. The landscape strategy includes creation of a number of outdoor classrooms, located to the north & south of the proposed extension, incorporating an existing wildlife garden & trees. To the south of the extension, one outdoor classroom is to be created below 3no. Birch trees, surfaced with a raised timber deck to avoid root impact; enclosed with low hazel weave fences & surrounded by robust, low maintenance planting. The decking & seating shall be made from recycled plastic to provide a robust, vandal resistant & low maintenance finish.

To the north of the hard court, new hedges have been used to enclose a proposed pond area, containing a fenced off jetty, with marginal & aquatic planting, with significant new tree planting required to meet 'very good' BREEAM standards. Other mitigation includes the introduction of a number of bird & bat boxes & wood piles, provided to replace lost habitats. These combined proposals shall promote biodiversity, protect sensitive ecological areas & provide a network of wildlife corridors, whilst integrating wildlife within the existing landscape & new planting. These shall be maintained & managed by the school & used wherever possible, as an educational feature within the curriculum. Between the school building & the woodland edge, an enclosed area has been identified for raised planters, a polytunnel, compost area & shed for 'learning to grow' activities.

Phase 3 of the development shall see the introduction of a new access through the existing playing fields leading to the new Soham Eastern Gateway Development; a new business park & commercial centre for East Cambridgeshire. The school playing field provision will be relocated to the current allotments & the school grounds will expand eastwards.

ELD Requirements
- To complete a tree survey, AIA to BS 5837: 2005, (Current at the time);
- To complete Phase 1 Habitat Survey with recommendations to gain 'very good' BREEAM rating;
- To complete concept design & detailed design with specifications for MS4 planning application;
- Provision of Design & Access Statement, MS3 & MS4 reports & risk register contributions;
- MS5 tender package and issue.
- Attendance at meetings to include stakeholder presentations & liaison with the school Head.
- Liaison with client, design team & Local Authority to gain planning approval for development & novation to main contractor during construction.

Project Particulars
Client: Cambridge County Council
Architect: Pick Everard
Capital Value: £2.5 million

ELWOOD LANDSCAPE DESIGN LTD
The Barn Cherry Tree Farm Mendlesham Green Stowmarket Suffolk IP14 5RQ
t: 01449 768828 e: team@e-l-d.co.uk www.e-l-d.co.uk ELD online photo library at www. elwoodlandscapedesign.smugmug.com

Education ~ Soham 3rd Primary School

Soham, Cambridgeshire

Concept Masterplan.

Images of the Completed School, in Mid Winter

Project Description

Laid to cropped agricultural land within the Fens, the site is to accommodate the third, new Key Stage 1 & 2 Primary School in Soham, built across 2 phases. The project is currently at Milestone 5, tender issue pre-construction.

The first phase shall see the main building developed adjacent to The Shade highway, with the second phase extending southwards from Phase 1, located between hard & soft sports pitches. The final layout of the site will provide two separate wings of accommodation - one for Key Stage 1 (including the nursery) & one for Key Stage 2.

To the north of the building, a series of break out spaces & external classrooms are to be provided for Reception & Year 1 classes. These spaces shall be enclosed by a boundary hedge with secure fences, containing interesting & robust planting, with features of play for each year group and seating provisions. The northern boundary is planted with an avenue of trees providing a green elevation to residential houses located along The Shade.

The Pre-school shall occupy the eastern end of the building with its own enclosed private, secure garden, containing bright, colourful safety surfacing, play equipment, raised borders & planting that shall provide a safe yet stimulating environment for toddlers.

To the south of the building, a hard court area is bordered by further outdoor classrooms & an enclosed habitat garden; where bog planting, pictorial floral planting, insect houses & wildlife can be observed by class groups. The site is very exposed & will be planted with a native shrub belt & trees to provide some relief from the Fenland winds that sweep across the site from the SW.

ELD Requirements

- To complete a tree survey, AIA to BS 5837: 2005, (current at the time);
- To complete a Walk Over Survey, a Flora Survey & Phase 1 Habitat Survey with recommendations to gain 'very good' BREEAM rating;
- To complete concept design & detailed design with specifications for MS4 planning submission;
- Provision of Design & Access Statement, MS3 & MS4 reports & risk register contributions;
- MS5 Tender Package Issue.
- Attendance at meetings;
- Liaison with client, design team & Local Authority to gain planning approval for development & novation to main contractor during construction.

Project Particulars

Client: Cambridge County Council
Architect: Pick Everard
Capital Value: £5 million
Main Contractor: Morgan Sindall

ELWOOD LANDSCAPE DESIGN LTD
The Barn Cherry Tree Farm Mendlesham Green Stowmarket Suffolk IP14 5RQ
t: 01449 768828 e: team@e-l-d.co.uk www.e-l-d.co.uk ELD online photo library at www. elwoodlandscapedesign.smugmug.com

Education ~ Orchard Park Primary School

Impington, Cambridgeshire

Concept Landscape Masterplan.

Hard & Soft Landscape Material Pallette.

Project Description
This recently built school is located on the outskirts of Impington in Cambridgeshire, set within extensive school grounds with native hedges, trees and shrub beds and a low grassed mound with a timber, green roof outdoor classroom to the rear.

Unfortunately, the existing provision of classroom space, play & landscape was not well considered in the initial design in terms of size, layout & plant species choice, resulting in the need for an extension, with a need for the relocation & losses to existing planting, relocation of new play equipment and relocation of the existing outdoor, green roof classroom.

As part of the Milestone 3 and 4 requirements, it was necessary to provide a landscape design & external space strategy for outdoor learning that complemented the Primary School's proposed extension.

A staff room courtyard and variety of outdoor classroom styles are proposed adjacent to the new extension, offering extended teaching opportunities. Each outdoor classroom is paved and enclosed with low timber fences & gates, themed by different colours to provide an active zone; a calm zone & relaxing zone, based on reds, blues and shades of green, used within the materials palette. Ground level planting provides colour, scent and seasonal interest. Timber benches are positioned next to the planting beds, enabling pupils to use the classrooms for storytelling or science projects.

The trim trail, located to the front of the school building is to be relocated, allowing an extension to the hardcourt play provision and creation of a netball court. A new access path will link the relocated trim trail with the outdoor classrooms, leading pupils around to the rear of the school. The existing timber outdoor classroom is to be relocated on a grass mound to provide natural surveillance over an informal, grass kick about space.

Significant Head Teacher involvement resulted in extensive meetings & parental consultation on the design of the external space to establish an approved scheme.

ELD Requirements
- To undertake a site visit to meet with the School Head and understand the brief;
- To identify areas of vegetation that could be retained or relocated;
- To assess play provision & produce concept masterplan options for discussion with the Head, that complement the existing school & proposed extension;
- To produce detailed scheme designs, with a schedule of quantities and specifications for planting and maintenance.

Project Particulars
Client: Cambridge County Council
Architect: Pick Everard
Capital Value: £1.6 million

ELWOOD LANDSCAPE DESIGN LTD
The Barn Cherry Tree Farm Mendlesham Green Stowmarket Suffolk IP14 5RQ
t: 01449 768828 e: team@e-l-d.co.uk www.e-l-d.co.uk ELD online photo library at www. elwoodlandscapedesign.smugmug.com

Education ~ Shirley Primary School

Cambridge, Cambridgeshire

Local Planning Authority Pre-application Liaison Masterplan.

Existing Site Entrance Way.

Existing Preschool Play Area.

Existing Reception Play Area.

Project Description
Shirley Lower School is an existing, disused school situated in a residential neighborhood on the outskirts of Cambridge. Due to an increased demand for Primary School places, the Local Authority took the decision to refurbish the school, ready to reopen as a single form entry Primary School and Pre- School in 2013.

As part of the Local Authority brief, the external works design became a key component of the overall refurbishment, responding to statutory requirements for outdoor learning and sports provision. In the absence of an incumbent steering group, the design team's imaginative response was based on their significant educational sector experience.

The existing site has suffered from several years of disuse, resulting in a poorly defined site boundary, invasive weeds, an overflowing pond & mature trees in need of arboricultural works. The client's requirements had to be met within the site constraints & a tight budget; while meeting planning considerations and local residents concerns. ELD set out to achieve five clear design objectives to resolve the complexities of these issues:

- Fulfilling the educational, play, circulation & access requirements in the Employers Requirements,associated Design Guidance Documents & relevant Building Bulletins;
- Providing a welcoming entrance & attractive boundary, sensitive to the local character;
- Providing a safe, secure & accessible environment for all users to Secure by Design standards;
- Increasing the habitat potential of the site in accordance with the Ecologists recommendations.
- Fulfilling BB99 requirements.

The refurbishment work will see the site transformed, with a defined entrance with safe pedestrian access to the main building. A new car park will provide an adequate level of provision for the school & community members using the new hard games court.

A site security strategy has been put in place by way of a sequence of low key access controls, providing clear boundaries between areas for pupils only, school visitors and local community members accessing the site for sports provision. The site boundary has been sensitively dealt with to reduce the impact on neighboring properties.

New hard and soft landscaped outdoor areas have been provided for each year group with a central shared outdoor classroom. Ecological measures have been incorporated into each of the spaces creating an additional educational resource.

ELD Requirements
- To provide a tree survey, AIA to BS 5837: 2012;
- To provide a Phase 1 Habitat Survey with recommendations.
- To complete concept design & detailed design for planning submission at MS4
- Provision of Design & Access Statement, MS3 & MS4 reports & risk register contributions;

Project Particulars
Client: Cambridgeshire County Council
Architect: RH Partnership
Main COntractor: Morgan Sindall
Capital Value: £3.4 million

ELWOOD LANDSCAPE DESIGN LTD
The Barn Cherry Tree Farm Mendlesham Green Stowmarket Suffolk IP14 5RQ
t: 01449 768828 e: team@e-l-d.co.uk www.e-l-d.co.uk ELD online photo library at www. elwoodlandscapedesign.smugmug.com

Education ~ Redbridge High School Extension

London Borough of Redbridge, London

"An enjoyable and collaborative design process – with great results to show for it." ***Claire Wakelin, Ellis Williams Architects.***

Concept Sketch View.

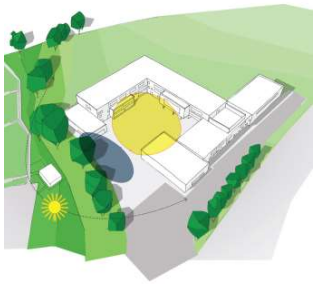
Project Description
ELD was part of the bid team for a secondary school campus extension in the London Borough of Redbridge. The scheme involved the construction of 9,000m2 of new school accommodation, to complement and connect to the existing facilities.

The landscape was broken down into district components forming a pedestrian and vehicular entrance way, arrival space, and central courtyard. The courtyard forms the heart of the scheme & is intended for social and educational activities.

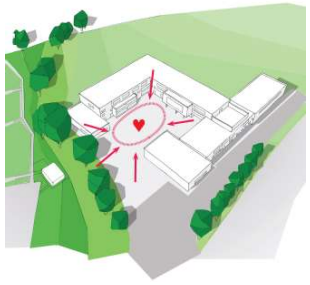
A flexible approach was taken to outdoor learning, with a number of different landscape 'settings' created within a holistic masterplan. These settings notably include a wooded glade with scattered seating for small groups; a raised amphitheatre for teaching/peer group presentation & an outdoor dining terrace. The landscape design has developed closely with the internal building layout to create suitable adjacent outdoor spaces.

ELD Requirements
- To complete alternative concept designs.
- Preparation of material for presentations & liaison with the school body via the Architect.
- To complete a design, coordinated with tree and ecological surveys.
- Develop a cost effective materials palette, within the budget.

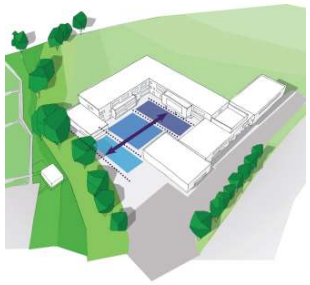
Project Particulars
Client: London Borough of Redbridge
Architect: EWA, London.
Capital Value: £16 million



Solar Gain Analysis.



Spatial Structure Analysis.



Spatial Progression Analysis.

Design Option1.

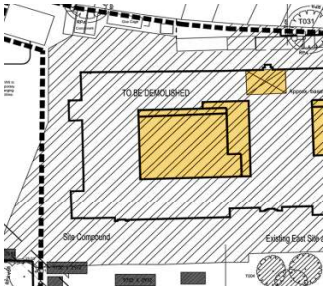
Design Option 2.

Design Option 3.

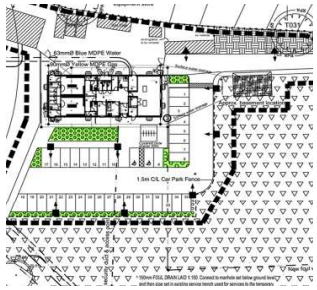
ELWOOD LANDSCAPE DESIGN LTD
The Barn Cherry Tree Farm Mendlesham Green Stowmarket Suffolk IP14 5RQ
t: 01449 768828 e: team@e-l-d.co.uk www.e-l-d.co.uk ELD online photo library at www. elwoodlandscapedesign.smugmug.com

Education ~ Multiple Schools in East Anglia — *Norfolk & Suffolk*

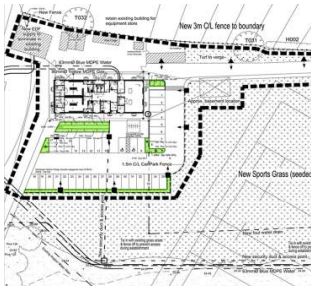
Sewell Park College Existing Buildings.



Typical Demolition Strategy.



Typical Topsoil Strategy.



Typical Planting Strategy

St Cedds Landscape Plan.

Drayton Primary School Plan.

Project Description

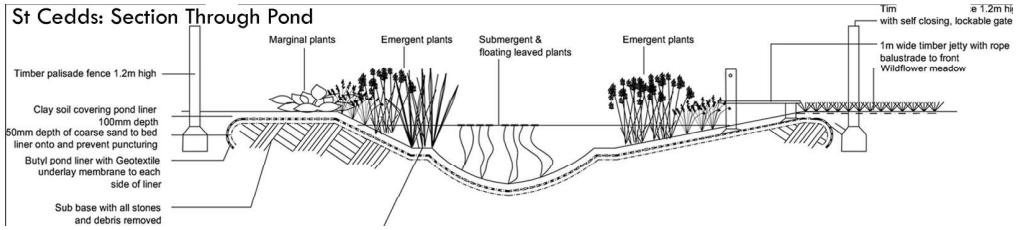
Schools related projects have been a large part of the ELD portfolio with services including detailed hard & soft landscape design, ecological & arboricultural assessments, working with the design team to find cost effective, yet innovative solutions whenever possible. The following Primary School (PS) extensions & redevelopments have been completed through Pick Everard Architects for Suffolk County Council at Kedington PS, Dell PS, Gunton PS & Hartest PS. Working with NPS South East Ltd for Norfolk County Council, ELD has also undertaken landscape design works for North Walsham High School, (see separate portfolio page) & Sewell Park College, plus a number of children's centres at Helleston, Reepham, Drayton & Acle Library.

ELD Requirements

Sewell Park College required the demolition of existing buildings, tree & ecological surveys, tree protection, soiling & drainage specifications for reinstatement & extension to playing fields, with soft landscape design around the new pavilion and access.

Working with Architects at John Finch Partnership, ELD has undertaken detailed design for St Cedd's School in Chelmsford, completing arboricultural & ecological surveys resulting in a 'Very Good' BREEAM rating. A small fenced pond with a jetty for access, aquatic and marginal planting has been specified for wildlife and educational values. A number of habitats have been retained through tree retention; plant species have been chosen for wildlife value; new habitats created through varied grass cutting regimes, strengthening of hedges, introduction of woodpiles, bat and bird boxes. These aim to teach the children about their environment and how we can encourage wildlife in an urban situation from toddlers onwards. BREEAM ratings have been enhanced at all the above school & public sector developments to include specific plant choices, bat boxes, bird boxes, bumble bee boxes, reptile hibernaculum & small ponds in schools to name a few, to encourage wildlife & educational features.

All sites look at the sustainable sourcing of street furniture made from recycled tyres or recycled wood & paving from reconstituted concrete using natural aggregate waste. SUDS have been incorporated into designs through careful choice of concrete block or geogrid/gravel surface materials combined with permeable surfacing below trees using no dig construction methods. Service/utility locations have been identified on all plans to prevent conflict between trees, new planting & trenching works. All the above points have been designed into many projects to reduce risk, increase biodiversity & retain existing landscape features.



Pond Proposed Section.

ELWOOD LANDSCAPE DESIGN LTD
The Barn Cherry Tree Farm Mendlesham Green Stowmarket Suffolk IP14 5RQ
t: 01449 768828 e: team@e-l-d.co.uk www.e-l-d.co.uk ELD online photo library at www. elwoodlandscapedesign.smugmug.com