



View 1 - The Entrance Atrium

# Electric Fields

## Concept – The Orchard

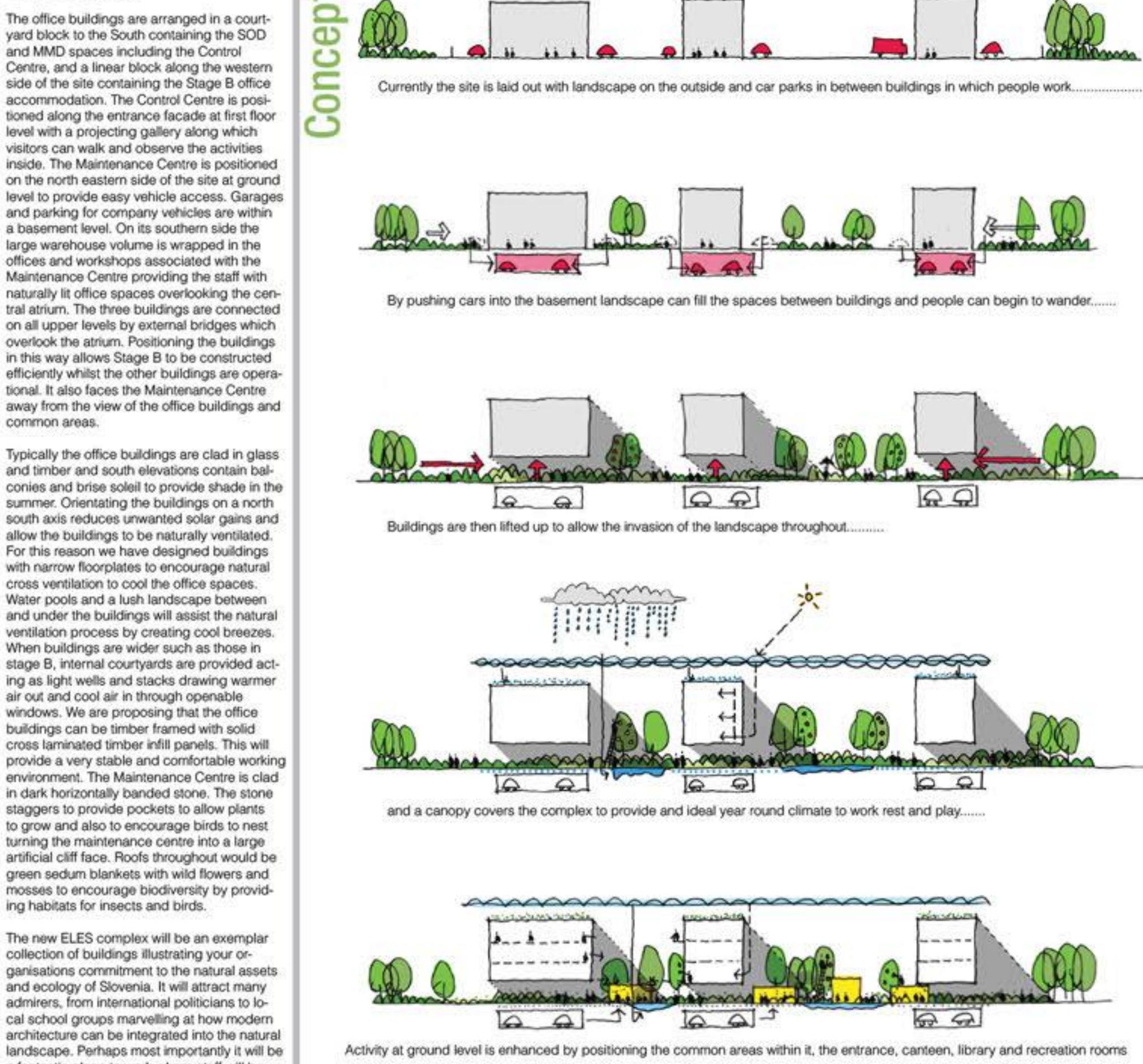
We are inspired by your wish to create a new work environment which is in harmony with the surrounding landscape and ecology. We are also inspired by the staff who maintain the apple trees in their free time, and so our ideas have grown from this. Our idea is to give you an orchard - a natural landscape which promotes biodiversity and provides a calming and lush environment for staff to work in, engage with and enjoy. We propose a basement carpark and we have lifted the office buildings off the ground to allow the natural landscape to enter into and under the complex. The buildings provide shade to the orchard floor, with cooling breezes providing spots for outdoor summer meetings. Above the entire complex is a steel lattice canopy, keeping the rain out but also holding ETFE "pillows" with integrated photo voltaic film to generate renewable solar power. The lattice turns the spaces between buildings into large atria usable throughout the year. The ETFE pillows also contain LED light fittings which could be programmed to change colour throughout the day to indicate national power use.

On the orchard floor the common areas are sprinkled within the landscape, like stones among the grass. The common uses bring activity to the garden encouraging all staff to use it and interact with each other. The entrance area, canteen and library are circular buildings to contrast with the orthogonal buildings above. Each of the buildings has a 'solid' area containing services such as toilets and stores and open areas, which are highly glazed and overlook and open up to the surrounding gardens. The recreation room faces away from the central space to provide it with privacy. Instead it overlooks a secluded garden on the northern side by the existing trees.

The orchard can have a range of activities and grow many things. Staff could try bee-keeping to produce honey for the canteen and grape vines for the wine at the office party. At lunch time they could show local school groups the hedgehogs and the frogs in the pond or the butterfly canopy and aviary with Slovenia's wild birds. The orchard isn't seen as a fixed manicured garden but an active and productive landscape changing naturally with the seasons. Staff could help out in exchange for meals in the canteen or credits in the gym. It will be a place where teamwork will be strengthened and people can meet and discuss their work and area of expertise.

The new ELES complex will be an exemplar collection of buildings illustrating your organisation's commitment to the natural assets and ecology of Slovenia. It will attract many admirers, from international politicians to local school groups marvelling at how modern architecture can be integrated into the natural landscape. Perhaps most importantly it will be a fantastic place to work where staff will be inspired by their surroundings.

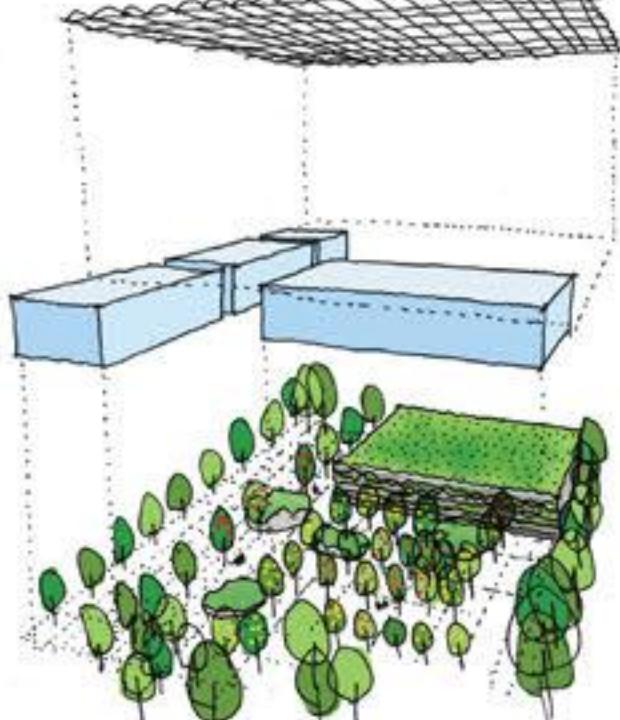
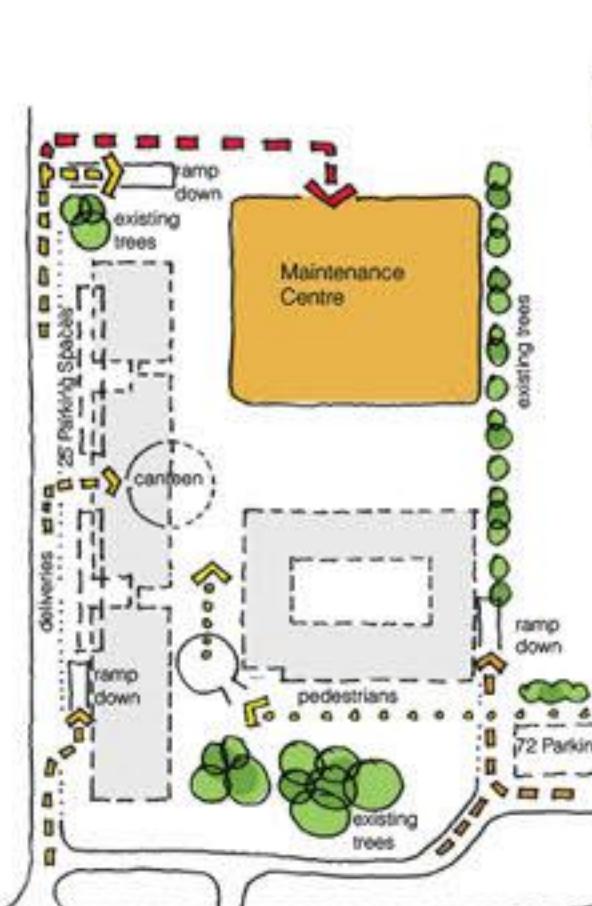
## General Arrangement



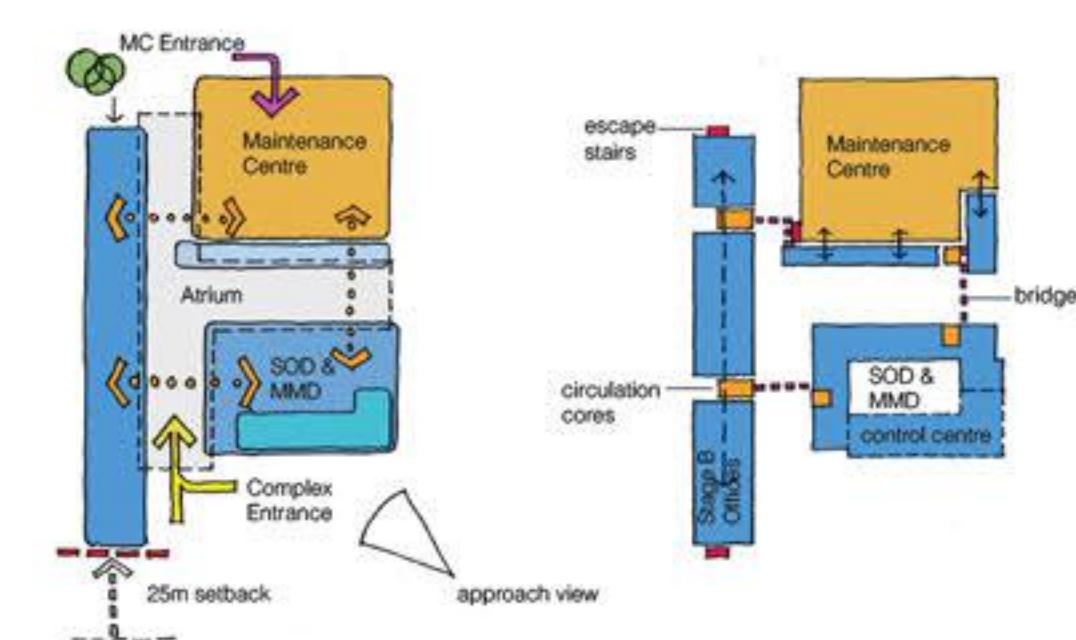
## Site Strategy

### The Orchard Concept

We have lifted the office buildings off the ground to allow the natural landscape to enter into and under the complex where an orchard floor grows with fruit trees and waterways. Above the entire complex is a lattice canopy turning the spaces in between buildings into large atria usable throughout the year

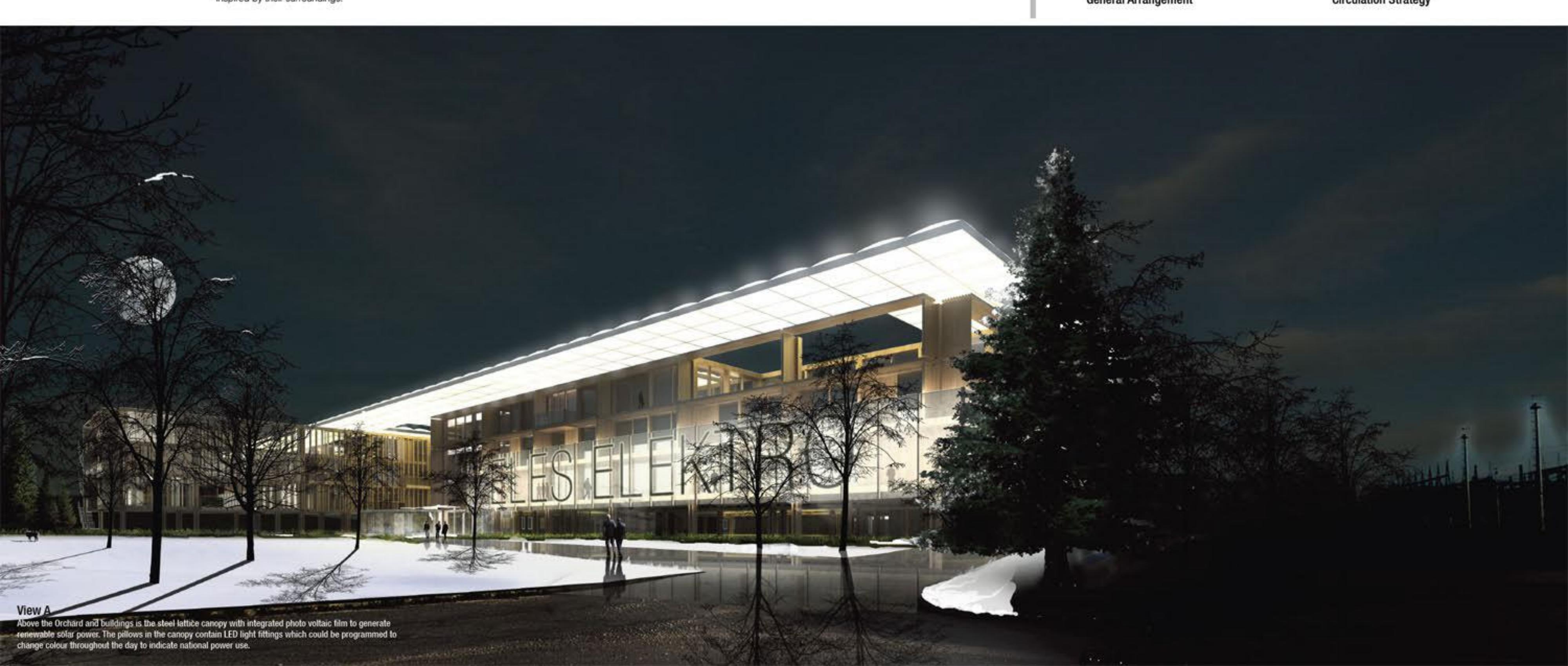


**Access Strategy**  
The design provides parking at ground level for visitors and staff, and additional staff parking underground. The existing road to the West is used as a service route for the Manipulation Yard to the North of the warehouses.



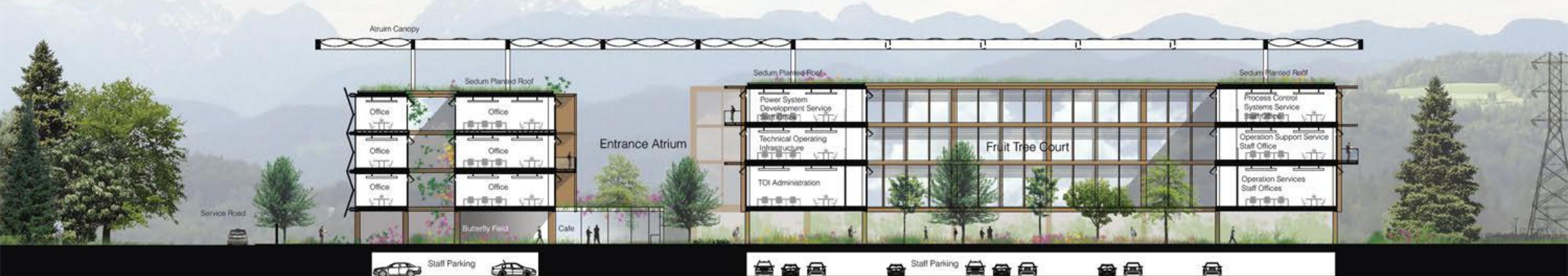
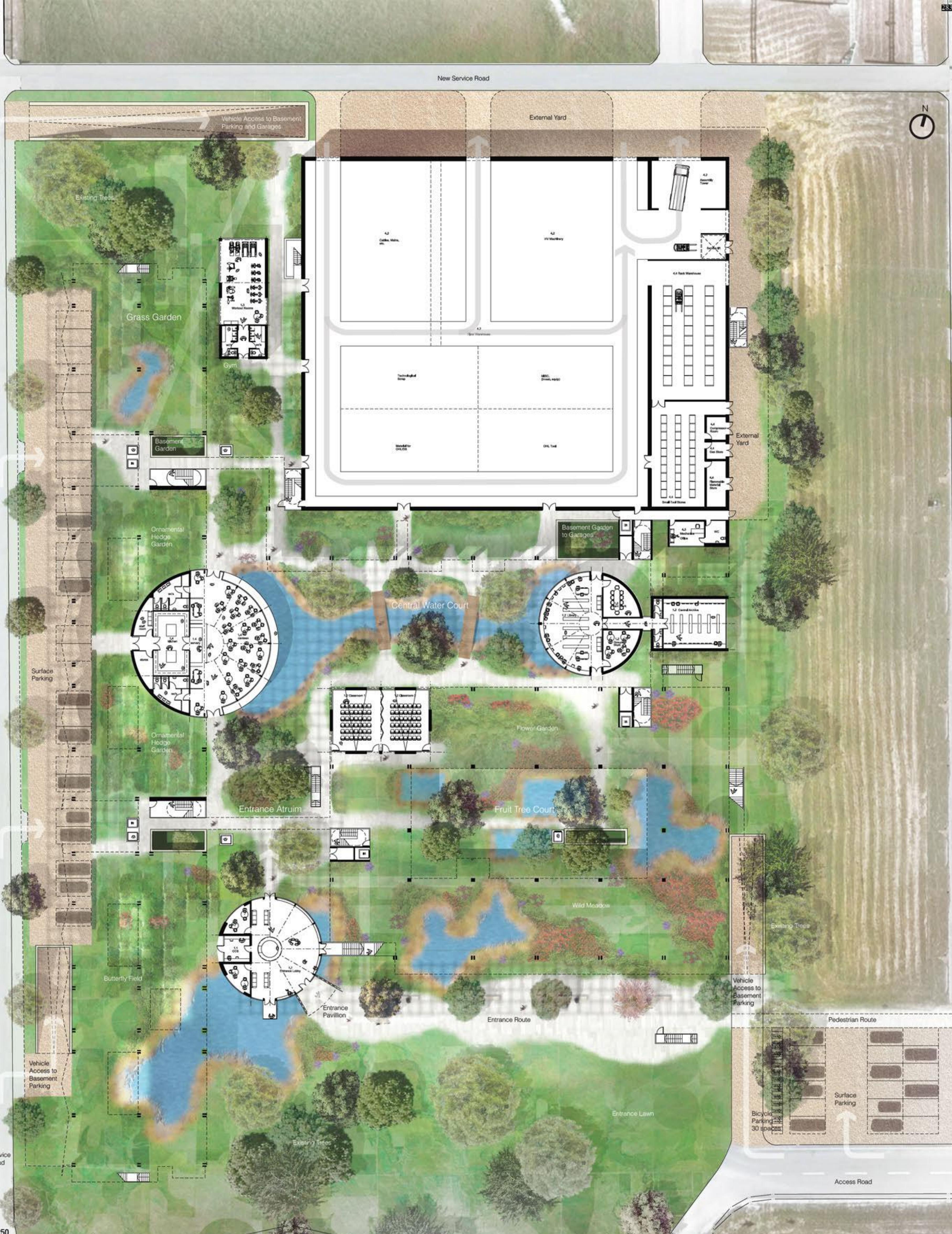
## General Arrangement

## Circulation Strategy

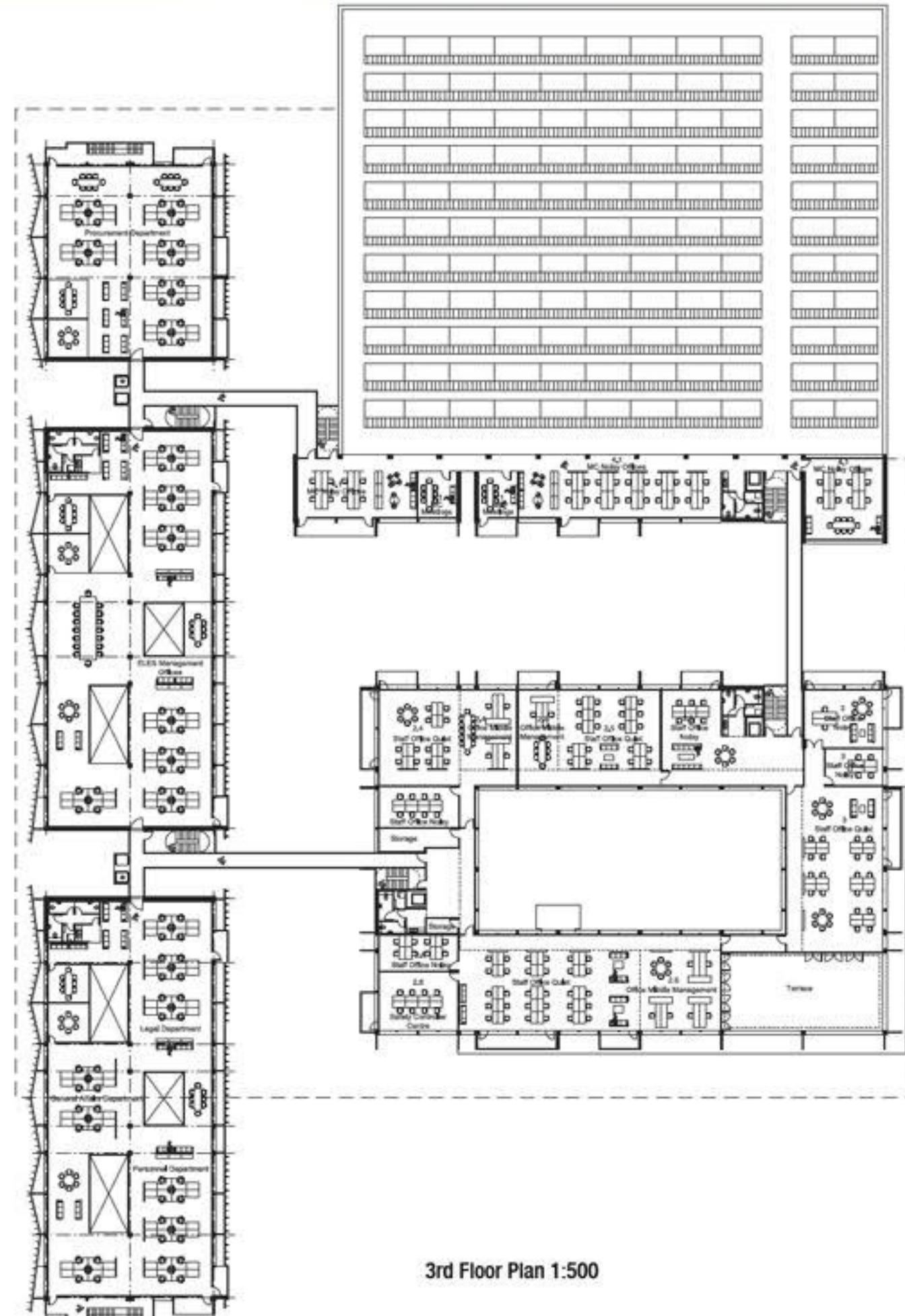
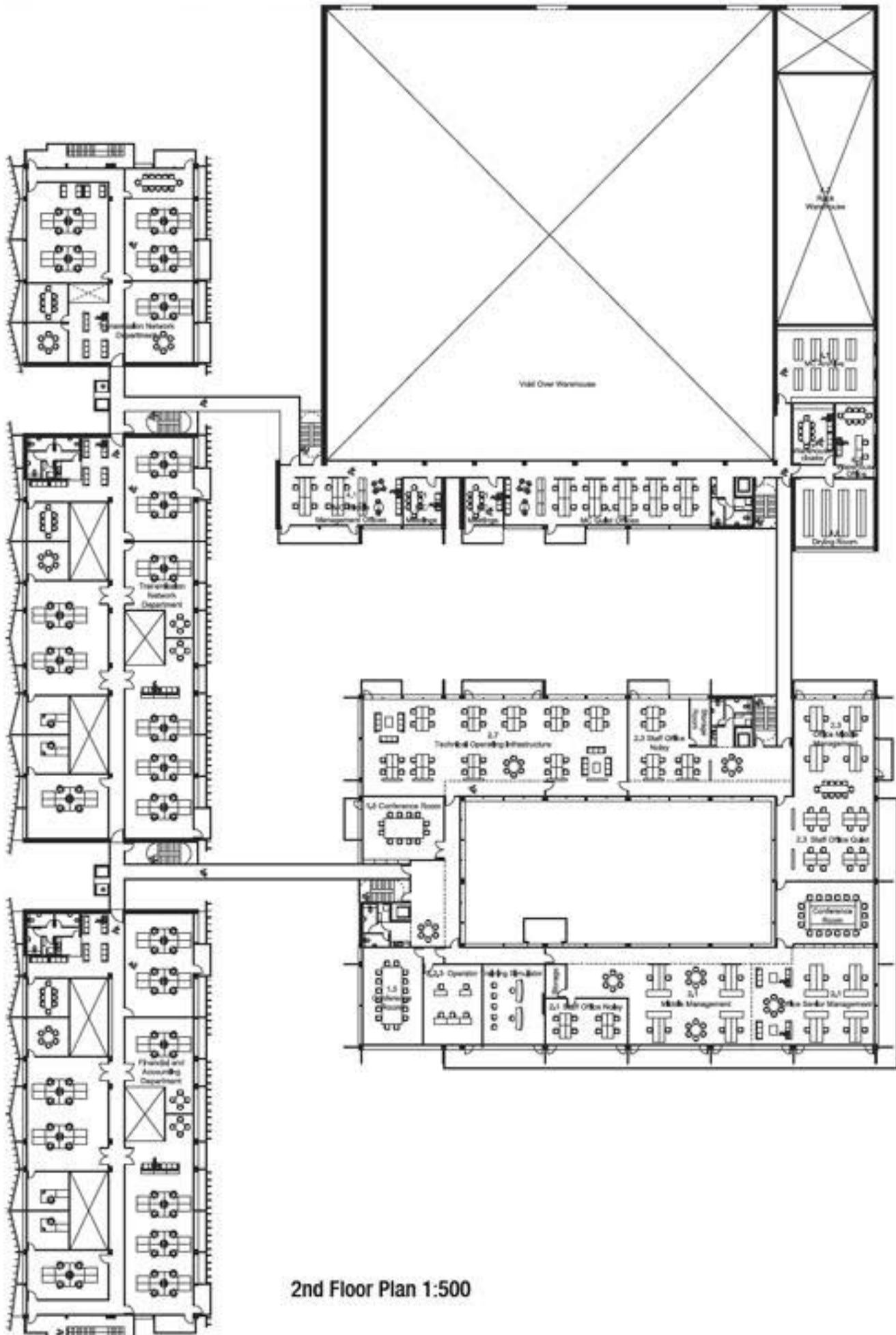


View A

Above the Orchard and buildings is the steel lattice canopy with integrated photovoltaic film to generate renewable solar power. The pillows in the canopy contain LED light fittings which could be programmed to change colour throughout the day to indicate national power use.







**Space Planning**  
We have laid out buildings in line with best practice, with vertical circulation cores containing stairs and lifts complying with EU fire escape regulations. Floor depths are appropriate to allow for very good day lighting levels to reduce the need for artificial light and also to encourage cross ventilation to reduce the need for mechanical air conditioning. Toilets, kitchens and showers areas are typically beside circulation cores. This allows the remainder of the floor plate to be open and flexible to future needs such as increases in department sizes, an increase in staff numbers, or a change in departments. As a head quarters building we also feel that there is great potential for openness and collaborative working within and between departments and we have therefore drawn most of the offices as being "open plan". However, it is very easy to lay the spaces out as individual "cellular" offices and we have indicated this in some places with broken lines.

Summary	Car Park	Warehouses	Office	Common Areas
Lower Basement	9000			
Upper Basement	9675			
Ground	10860	32	1049	
1st	10860	4480		
2nd	250	4490		
3rd	2275	31151	1049	
Total	31175	31151	1049	
Total Gross Area			26600 m²	

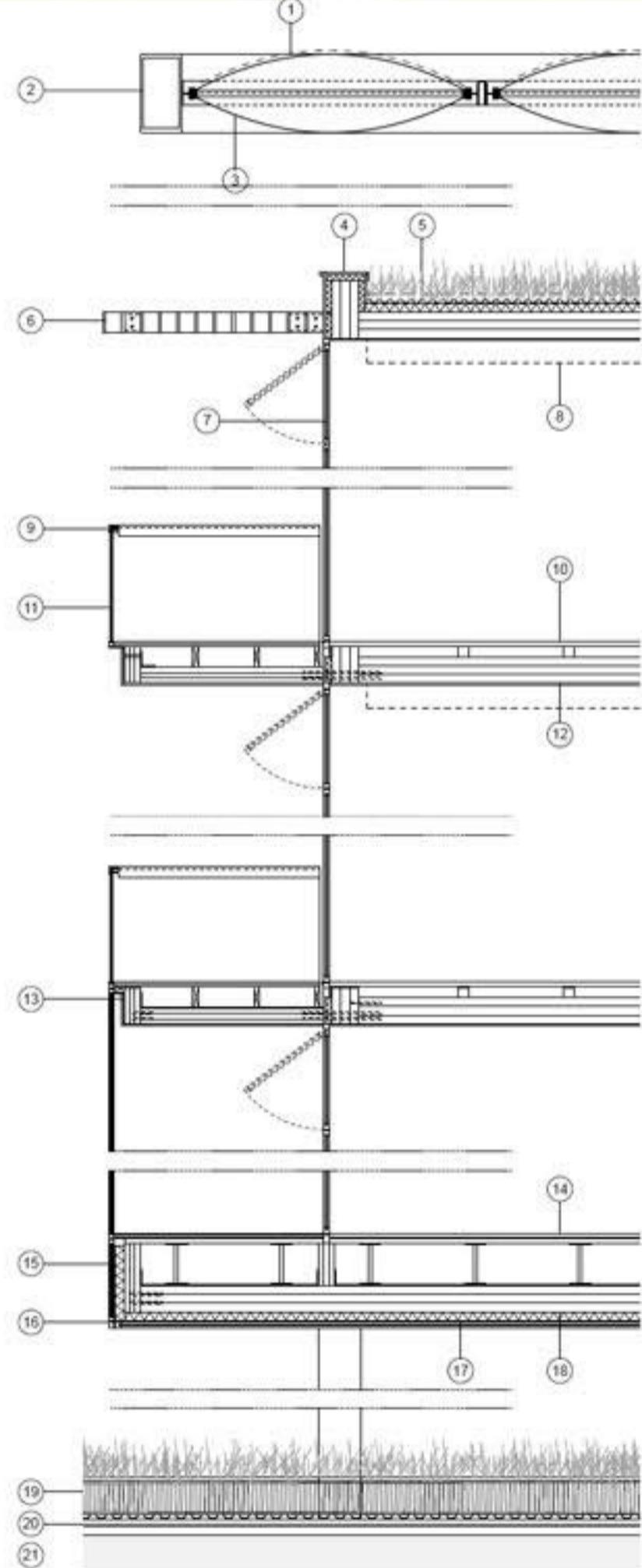
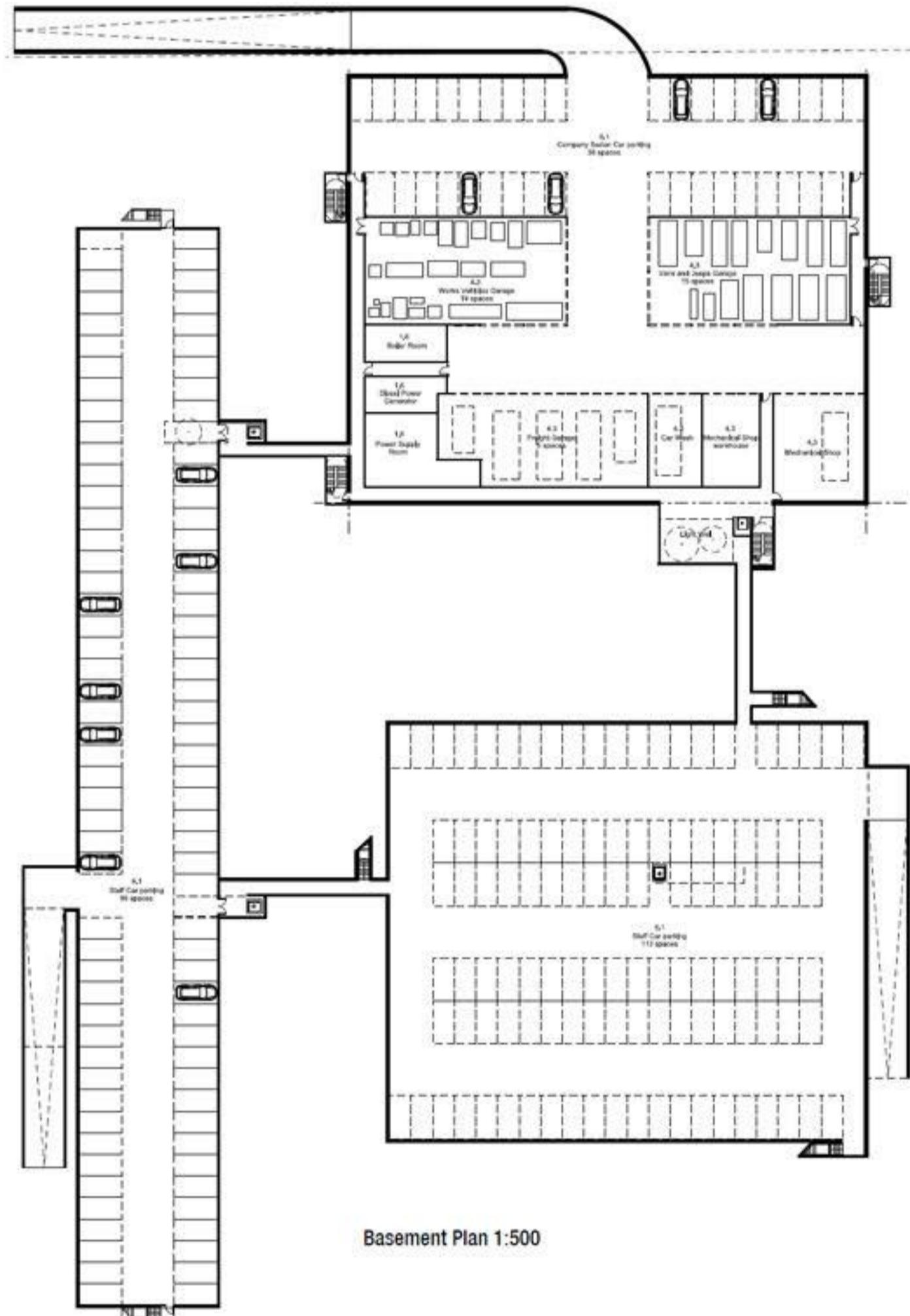
Accommodation Schedule		
Summary	Car Park	Warehouses
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Upper Basement	9675	
Ground	10860	32
1st	10860	4480
2nd	250	4490
3rd	2275	31151
Total	31175	31151
Total Gross Area		26600 m²

Parking Schedule		
Employee Parking	Parking At Grade	Parking Underground
Visitor Parking	30	30
Company Car Park	30	30
Guest Parking	30	30
Total	90	90



**View 3**

The orchard can have a range of activities and grow many things. Staff could try bee keeping to produce honey for the canteen and grape vines for the wine at the office party. At lunch time they could show local school groups the hedgehubs and the frogs in the pond of the butterfly colony and aviary with Stowman's wild birds.

**Technology**

This section shows a typical south facing facade build up. The timber frame would be glulam with cross laminated timber panels for floors and walls. On south elevations there would be high levels of glazing to maximise solar gains in winter when the sun is low and heating is required. In summer solar gains are reduced by projecting balconies and timber brise soleil. Windows would be highly efficient triple glazed units to ensure air tightness and high insulation levels are achieved. Roofs would be sedum blanket green roofs. The ETFE pillows are coated with a PV layer for generating power and would also contain LED lights to light the canopy at night.

**Facade Section 1:50****View C**

The workshops and warehouses for the mechanics and engineers are positioned to the North of the office accommodation so the Manipulation yard can directly connect to the service roads for 24 hour use if needed.