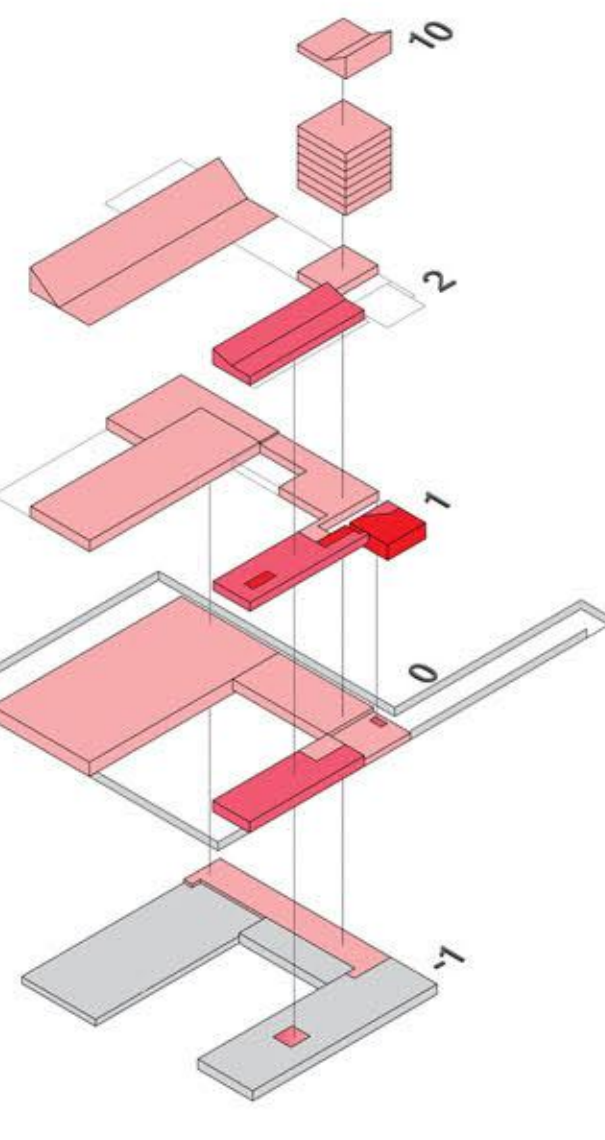
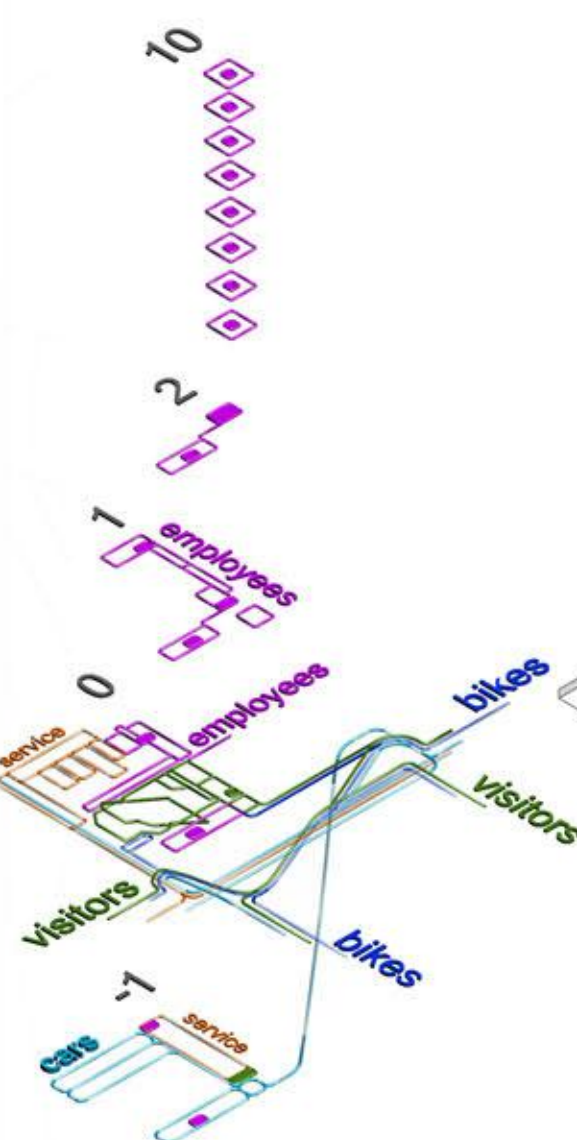
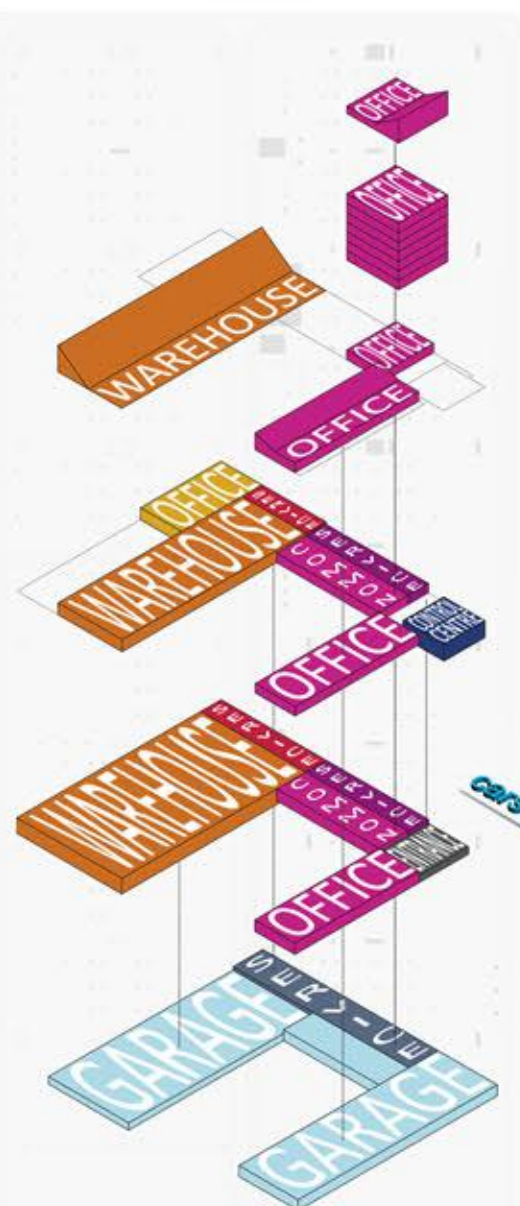
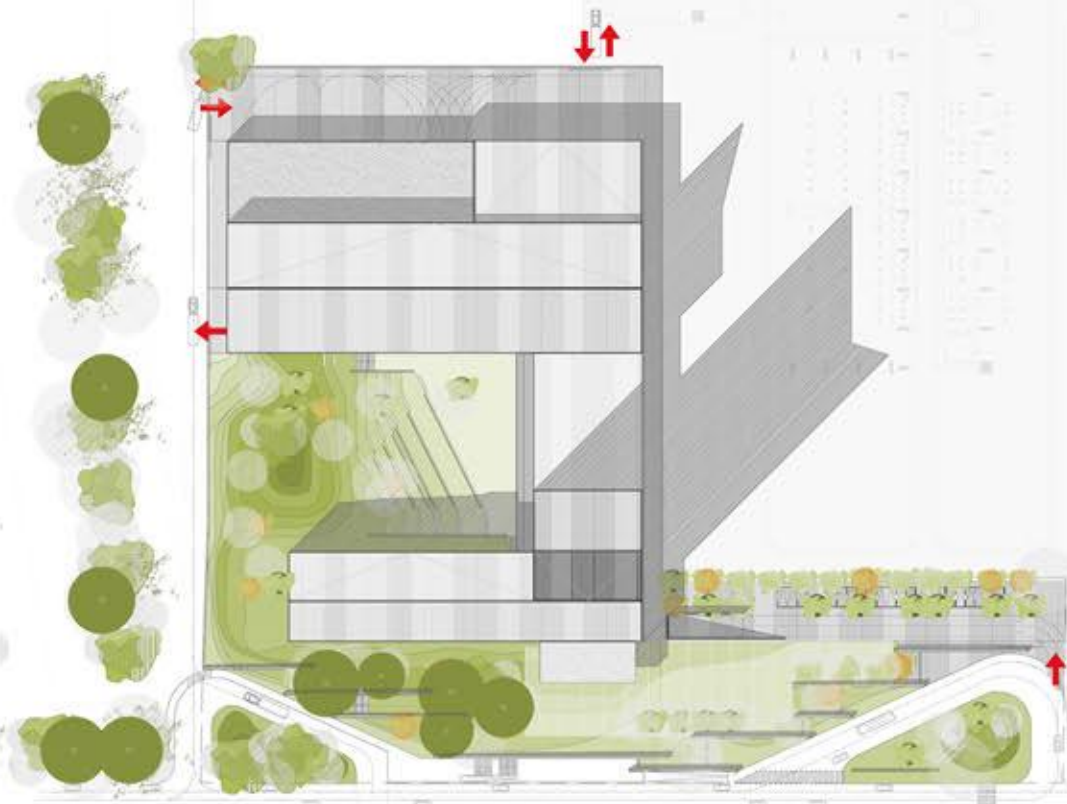


"Nature is allowed to be natural, but is contrasted with symbolic events. Each of these elements or events would create particular contrasting environments within the garden as a whole, (...) to understand as fragments of an order, of a wider understanding, held together as pieces or places of reason in the surroundings of nature".

Ovasaka, Arthur A.: The urban Garden 1978



1 2 3 4
SECURITY



SITUATION SOLUTION e 1_1000

PROGRAM

CIRCULATION

PHASE 1 - construction of underground garages for SOD + MMD
- construction of SOD + MMD and common areas (CA)

PHASE 2 - actual OCV is demolished and moved to new offices SOD+MMD

PHASE 3 - construction of new maintenance centre MC (first part)
- construction of new waste plant(WP) and drain water collecting tanks (DW)

PHASE 4 - actual with storages is d of
- new common areas can (CA) be used as storage until MC is completed
- existig waste plant (WP) is demolished

PHASE 5 - construction of underground garages for MC
- construction of maintenance centre MC (second part)

PHASE B - the extension of Phase B as high-rise is constructed

CONSTRUCTION PHASES

AN SINGULAR BUILDING – THREE DIFFERENT PROGRAMS

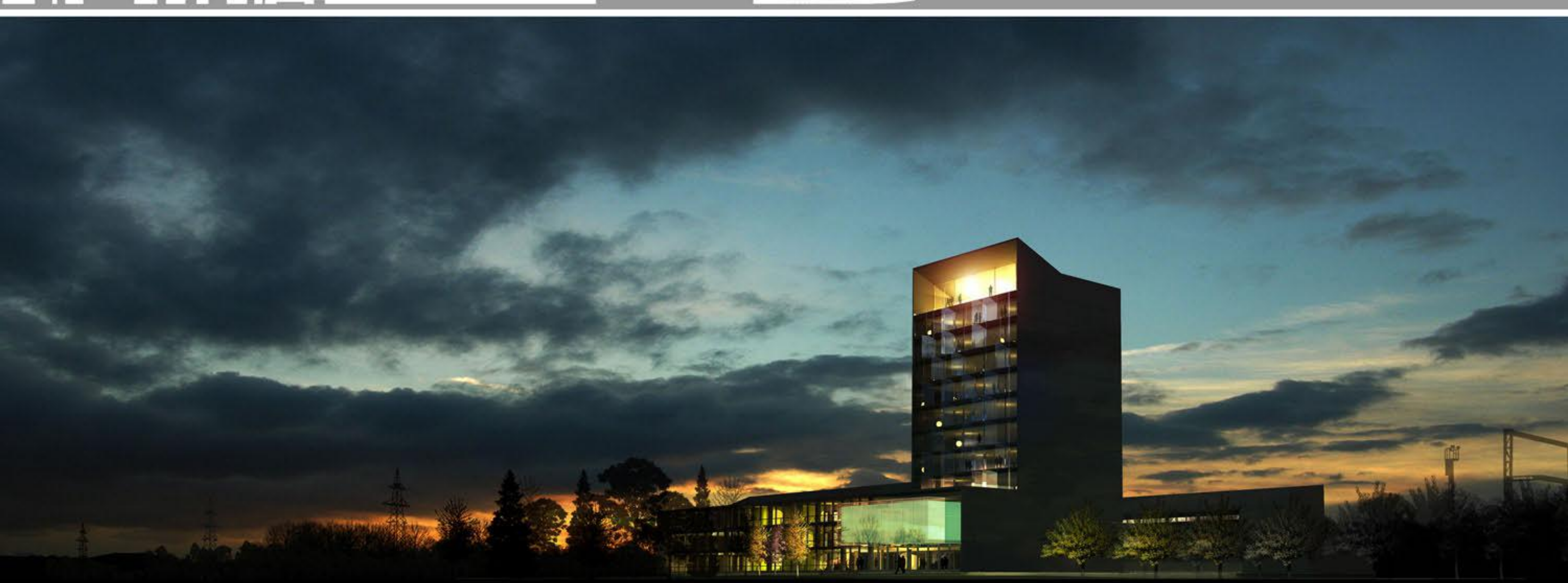
Another element crucial for project's idea, has been to create a building capable to enclose and organize three programs so diverse, as those defined in the competition: a maintenance area (with industrial character), an operations area in which the control center is located as a crucial element, and future expansion (phase B) which will house all the company's executive team. The building should be unique, in order to give an iconic image to the company. In this sense, it has chosen to place in the plot all the different uses according to their optimal position for functioning or orientation. Elements are linked through the piece that houses common elements, which becomes a space capable to link all three programs

THE OUTLINE: THE LANDSCAPE

The building's profile is meant to be an icon, the corporate image of ELES Company. In the quest for balancing the corporate image with the place where the building is located, a shape that makes a reference to Slovenia's landscape has been searched. The outline goes upwards, downwards, creating a net, iconic, attached to Slovenia's symbols shape: its landscape. Wallieye versus mountain relationship, that is. These pitched planes also allow a good thermal behaviour: the angle is adequate for solar energy uptake, snow stacking is avoided and the northern light is let inside, the most adequate for workspace illumination.

ELES: A LIGHTHOUSE IN THE LANDSCAPE

Above the trees, the tower of the new ELES complex arises imposingly, marking its position. In the last two floors, the large throne lights becoming an authentic lighthouse in the landscape. Illuminated light box symbolizes ELES in the sublime colours provided by LED powered facade.



WINTER MODE
Air supply
Solar radiation heats the air stored in the air chamber of the double skin façade. When the air temperature is higher than outdoor air temperature, the air is driven to the ventilation system as supply air.

SUMMER MODE
Outdoor air curtain
The overhang located
along the building blocks
direct solar radiation.
The façade is open to
the outdoors, so in case
the air is heated inside
the air chamber it will
flow outside reducing
heat gains.

CONSTRUCTION LEGEND

1. Selected granular fill at 40-80 mm ϕ to 200 mm
2. Plain concrete concrete slab
3. HDPE drainage protection
4. Protection screed
5. Concrete structure
6. Mortar bed for slope formation
7. Geotextile foil
8. Topsoil
9. Parking ventilation grid
10. Steel Structure
11. Composite steel deck concrete slab
12. Mineral wool insulation
13. Raised access floor
14. Steel grating
15. Insulated ventilation chamber built with two layers of concrete
16. Plasterboard ceiling
17. Ventilation racks. Position according to energy balance
18. Metal sheet finish, anchored to fixation substructure
19. Solar protection overhang, only accessible if needed
20. Roof slab with 2% slope
21. Insulated panel with mineral wool insulation
22. Water Proof membrane
23. Odour profile for exterior finish anchoring
24. Exterior steel plate
25. Tissue gluing system
26. Electrically controlled glass lowering system
27. Roof rather rafters
28. Reinforced panel substructure
29. Photovoltaic panel fixation substructure
30. Photovoltaic panels
31. Taint wall structure
32. Floor/Gelling steel sheet finish

SKYLIGHT

SKYLIGHT
The skylight profits natural light and is used as an exhaust for a natural ventilation strategy to thermally discharge the building during the summer nights and are coupled to the fire protection system, so they remain open in case a fire occurs, letting the smoke out.

LEVEL 0 e 1 200

1. COMMON USE AREAS

- ENTRANCE INTO THE COMPLEX**
- 1.1.1. Entrance lobby 100.00 m²
 - 1.1.2. Reception desk 2 workplaces 36.00 m²
 - 1.1.3. Central Surveillance System (CSS) 20.00 m²
 - 1.1.4. Storage room 10.00 m²
- CATERING FACILITIES**
- 1.4.1. Canteen
 - 1.4.1.1. A Dining hall 100 persons 160.00 m²
 - 1.4.1.1.1. & Kitchen 50.00 m²
 - 1.4.1.1.2. Storage and refrigeration rooms for the kitchen 30.00 m²
 - 1.4.1.1.3. Bar with a counter 40.00 m²
 - 1.4.2. Catering area toilet
 - 1.4.2.1. Toilets - men's 15.00 m²
 - 1.4.2.1.1. Toilets - women's 10.00 m²
 - 1.4.2.1.2. Toilets - handicapped 2.50 m²
 - 1.4.3. Catering staff service rooms
 - 1.4.3.1. Canteen
 - 1.4.3.1.1. Canteen staff - men's 6.00 m²
 - 1.4.3.1.2. Canteen staff - men's 2.50 m²
 - 1.4.3.1.3. Canteen staff - men's (1 stall + 1 stall) 4.00 m²
 - 1.4.3.1.4. Canteen staff - women's 6.00 m²
 - 1.4.3.1.5. Canteen staff - women's 2.50 m²
 - 1.4.3.1.6. Canteen staff - women's (1 stall) 2.50 m²
- SERVICE ROOMS**
- 1.5.1. Conference room 1 15 persons 40.00 m²
 - 1.5.2. Conference room 2 15 persons 40.00 m²
 - 1.5.3. Conference room 3 15 persons 40.00 m²
 - 1.5.4. Photography room - photocopying, printing, cutting 1 workplace 20.00 m²
 - 1.5.5. Janitor's workshop 10.00 m²
 - 1.5.6. Mail room (incoming/outgoing mail) 2 workplace 24.00 m²
 - 1.5.7. Refreshments (dota dispensers) 30.00 m²
 - 1.5.8. Smoking rooms 5.00 m²
 - 1.5.9. Toilets
 - 1.5.9.1. Toilets - men's 32.00 m²
 - 1.5.9.1.1. Toilets - women's 25.00 m²
 - 1.5.9.1.2. Toilets - handicapped 1.35 m²
 - 1.5.9.2. Toilets - handicapped 23.50 m²

2. SYSTEM OPERATION DIVISION

SYSTEM OPERATION DIVISION MANAGEMENT

- 2.1.1. Office (senior management) 2 workspaces 90.00 m²
2.1.2. Office (middle management) 4 workspaces 96.00 m²
2.1.4. Conference room 10 stations 50.00 m²
2.4.5. Storage room 10.00 m²

TECHNICAL AND TECHNOLOGY ROOMS.

- 2.7.1. Technical operating infrastructure (TOI) 300.00 m²
2.7.4. SPSV storage for EMS equipment 20.00 m²
2.7.5. Collocation area for external users 90.00 m²
2.7.6. RPS and UPS auxiliary equipment 20.00 m²
2.7.7. Secondary systems service storage room 50.00 m²
2.7.8. Protection systems laboratory 30.00 m²

3. MARKET MONITORING DIVISION

3. MARKET MONITORING DIVISION

- 3.1.1. Office (senior management) 2 workspaces 90.00 m²

CONTRACT AND SETTLEMENTS

- 3.3.3. Staff office - quiet 5 workspaces 60.00 m²
3.3.3. Staff office - noisy 3 workspaces 36.00 m²

4. MAINTENANCE CENTRE

WORKSHOPS AND WAREHOUSE OF THE MC LJUBLJANA

- 4.2.5. Floor warehouse 1,200.00 m²

4.2.7. Office 1 workspace 32.00 m²

- 4.3.1.1 Garage for freight vehicles and trailers 5 parking spaces 250.00 m²
4.3.1.2 Garage for vans and all-terrain vehicles 15 parking spaces 300.00 m²
4.3.1.3 Garage for work machinery and trailers 19 machines 300.00 m²
4.3.2 Mechanic's shop 120.00 m²

4.3.3. Car wash 80.00 m²

- 4.3.6. Restroom with cloakroom 16.00 m²

DS-BERKEVO

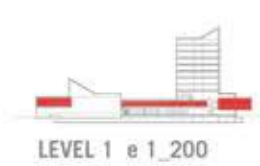
- 4.4.1. Office
4.4.1.1. DS Foreman's office 1 workspace 24.00 m²
4.4.2. Workshops
4.4.2.a Machine workshop with welding station 9.00 m²
4.4.2.b Electrical workshop 48.00 m²
4.4.2.c DS measuring chamber 42.00 m²
4.4.3. Warehouses

4.4.3.a DS small tools storage room

- 4.4.3.6 Flammable materials storage 20.00 m³
4.4.3.7 Gas storage 6.00 m³
4.4.4. Service rooms
4.4.4. Compressor room 9.00 m³
- OHL BERNEVO**
4.5.1. OHL small tools storage room 25.00 m³
4.5.2. Storage room, chain saw service station 50.00 m³

SECTION e 1 200



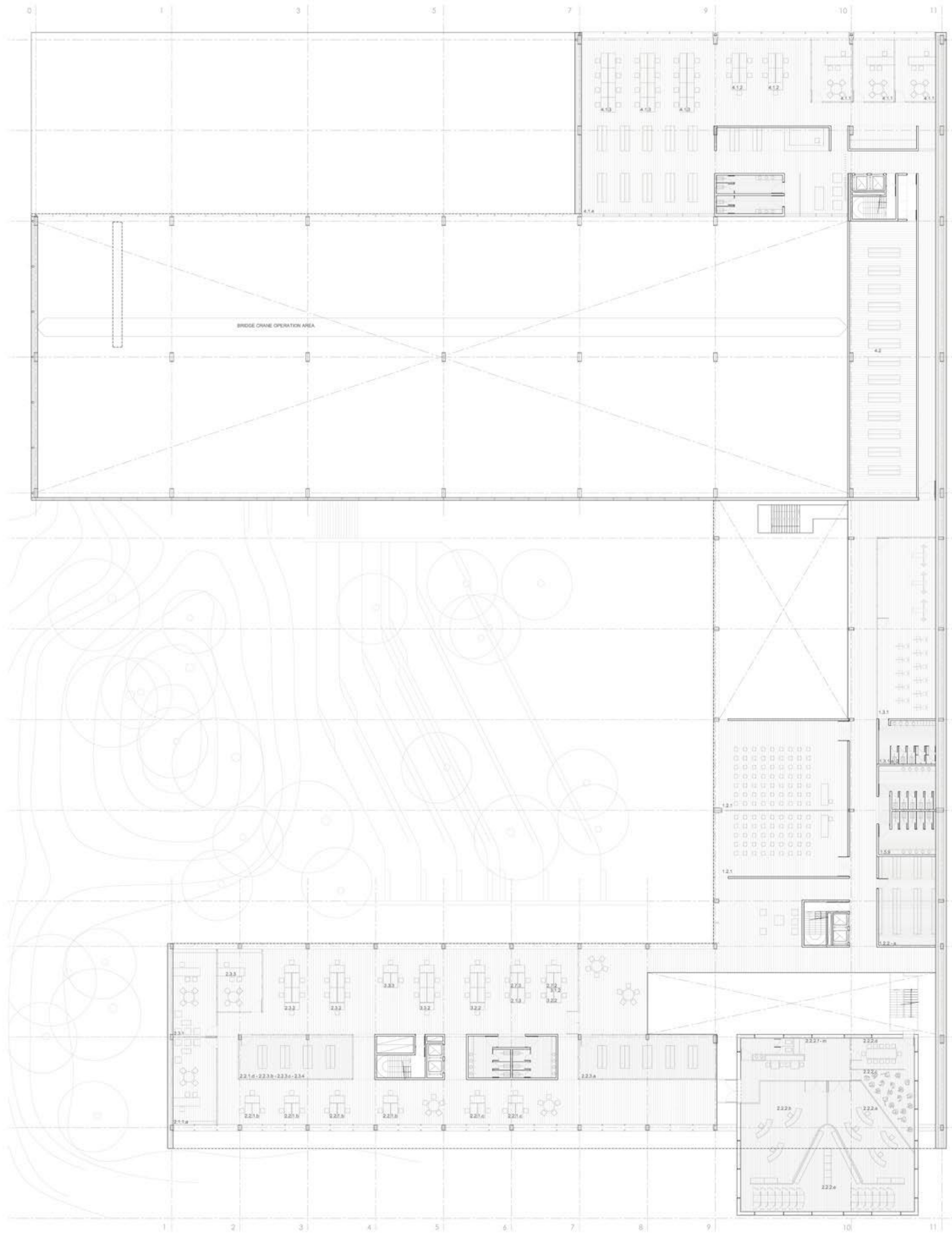


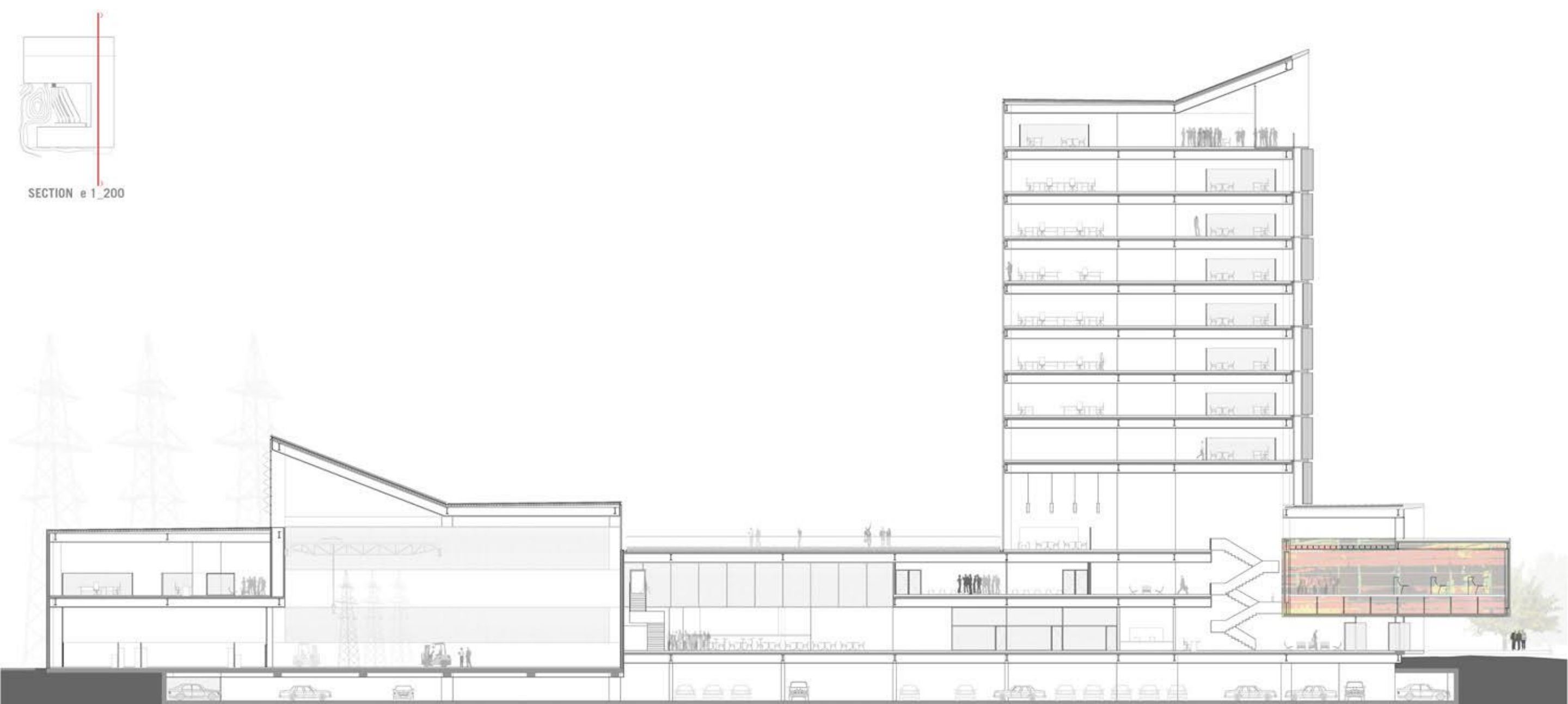
LEVEL 1 e 1_200

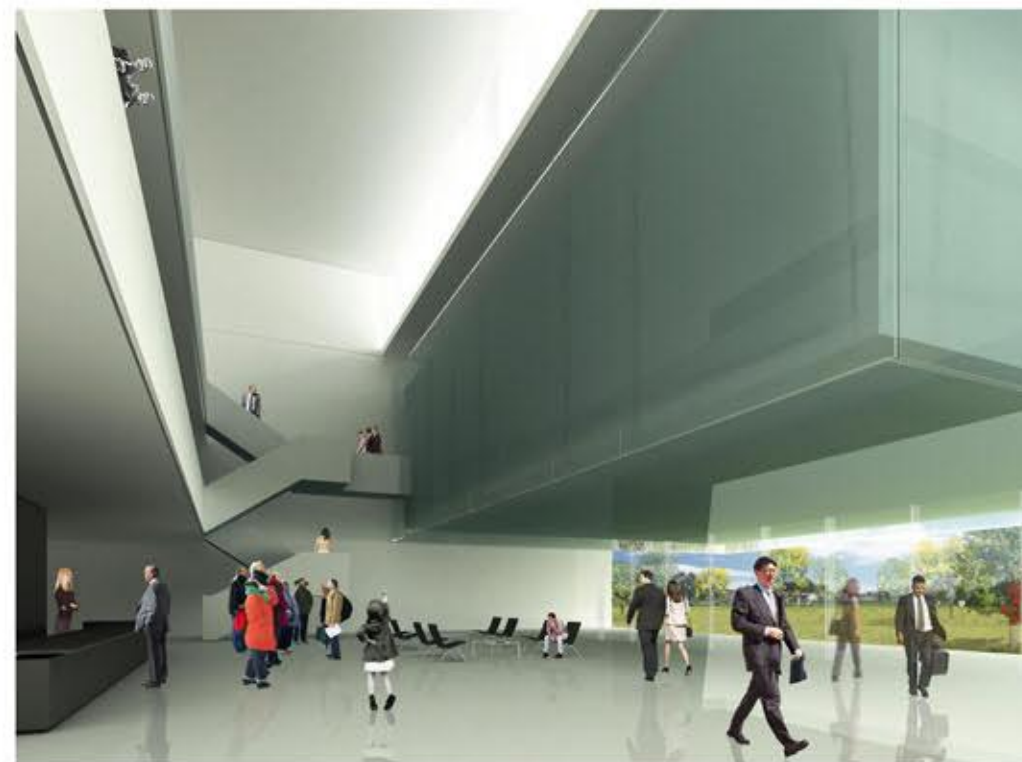
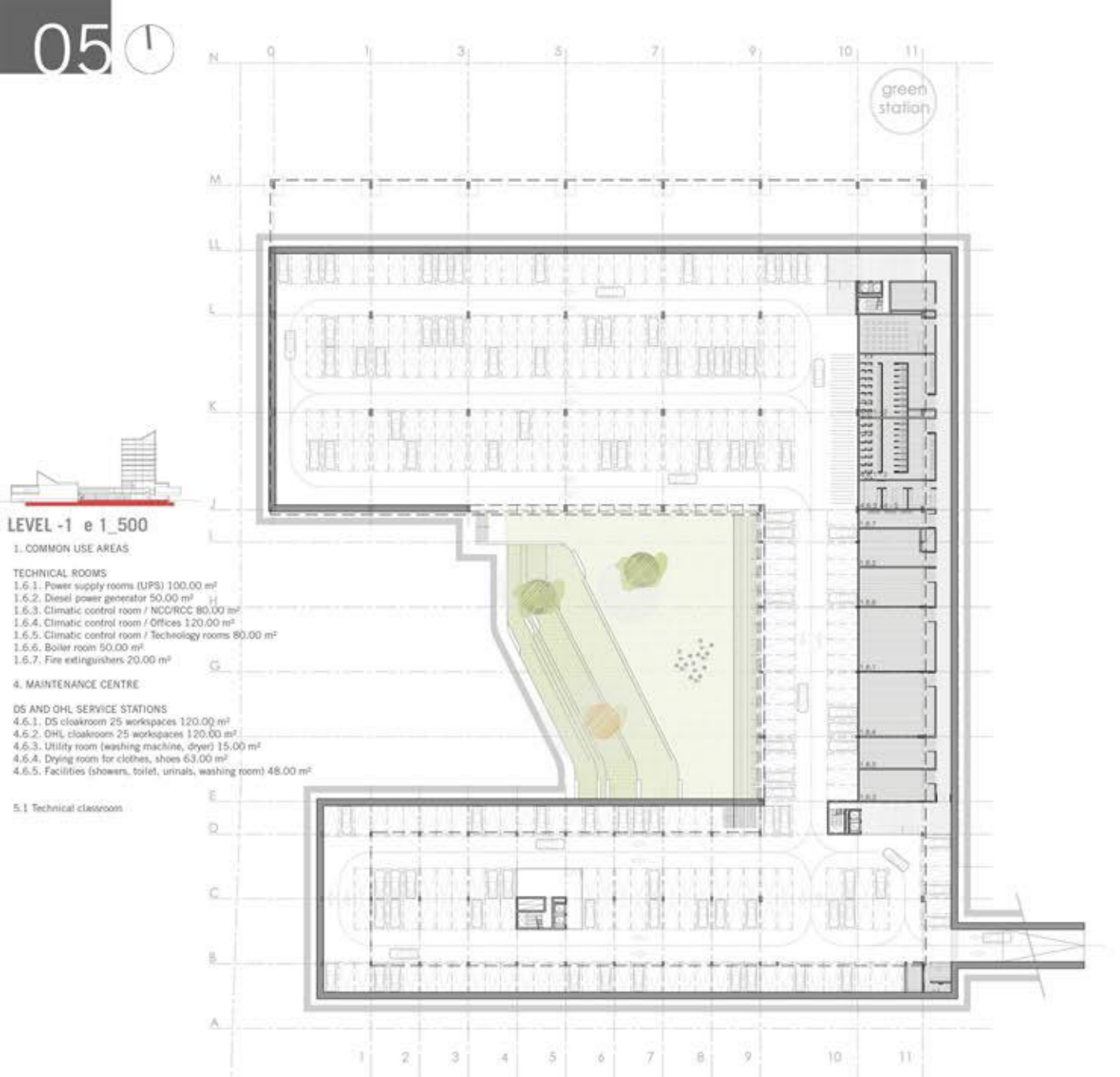
1. COMMON USE AREAS
- EDUCATIONAL FACILITIES
- 1.2.1. Classroom 1 30 persons 65.00 m²
- 1.2.1.a Classroom 2 30 persons 65.00 m²
- 1.2.2.a Central archive 1 workspace 70.00 m²
- RECREATION FACILITIES
- 1.3.1. Workout room 120.00 m²
- 1.3.1.a Cloakroom - men (showers, restroom) 8.00 m²
- 1.3.2. Cloakroom - women (showers, restroom) 8.00 m²
- SERVICE ROOMS
- 1.5.9. Toilets
- 1.5.9.a Toilets - men's 32.00 m²
- 1.5.9.b Toilets - women's 25.00 m²
2. SYSTEM OPERATION DIVISION
- SYSTEM OPERATION DIVISION MANAGEMENT
- 2.1.3. Staff office - noisy 2 workspaces 24.00 m²
- OPERATION SERVICE
- 2.2.1. Offices
- 2.2.1.a Office (middle management) 1 workspace 24.00 m²
- 2.2.1.b Staff office - quiet 11 workspaces 132.00 m²
- 2.2.1.c Staff office - noisy 5 workspaces 60.00 m²
- 2.2.1.d Storage room 10.00 m²
- 2.2.2. Control centre
- 2.2.2.a National control centre (NCC) 4 workspaces
- 2.2.2.b Regional control centre (RCC) 3 workspaces 320.00 m²
- 2.2.2.c Visitors' room 20 persons 40.00 m²
- 2.2.2.d Multifunctional crisis room 12 persons 48.00 m²
- 2.2.2.e Reference archive 15.00 m²
- 2.2.2.f Common rest room 18.00 m²
- 2.2.2.g Small rest room 6.00 m²
- 2.2.2.h Small rest room 6.00 m²
- 2.2.2.i Dining hall 6 persons 18.00 m²
- 2.2.2.j Kitchen 18.00 m²
- 2.2.2.k Cloakroom 30 persons 12.00 m²
- 2.2.2.l Bathroom 15.00 m²
- 2.2.2.m Toilets 12.00 m²
- 2.2.3. Operator Training Simulator (OTS)
- 2.2.3.a OTS centre 2 persons 100.00 m²
- 2.2.3.b Trainer room - glass wall overlooking the OTS 5 persons 40.00 m²
- 2.2.3.c Archive 10.00 m²
- OPERATION SUPPORT SERVICE
- 2.3.1. Office (middle management) 1 workspace 24.00 m²
- 2.3.2. Staff office - quiet 12 workspaces 144.00 m²
- 2.3.3. Staff office - noisy 1 workspace 12.00 m²
- 2.3.4. Storage room 10.00 m²
- TECHNICAL AND TECHNOLOGY ROOMS
- 2.7.2. TOI Administration 3 persons 45.00 m²
- 2.7.3. ICTO, TS office - noisy (desk for 6 persons) 2 workspaces 24.00 m²
3. MARKET MONITORING DIVISION
- MARKET MONITORING DIVISION MANAGEMENT
- 3.1.2. Staff office - noisy 1 workspace 12.00 m²
- CONTRACT AND SETTLEMENT SERVICE
- 3.2.2. Staff office - quiet 7 workspaces 84.00 m²
- STRATEGY AND RISK MANAGEMENT SERVICE
- 3.3.2. Staff office - quiet 5 workspaces 60.00 m²
- 3.3.3. Staff office - noisy 3 workspaces 36.00 m²
4. MAINTENANCE CENTRE
- OFFICES OF THE MC LJUBLJANA
- 4.1.1. Office (middle management) 3 workspace 72.00 m²
- 4.1.2. Staff office - quiet 10 workspaces 120.00 m²
- 4.1.3. Staff office - noisy 25 workspaces 300.00 m²
- 4.1.4. Archives of the MC Ljubljana 80.00 m²
- WORKSHOPS AND WAREHOUSE OF THE MC LJUBLJANA
- 4.2.4. Rack warehouse - first floor 300.00 m²



SECTION e 1_200

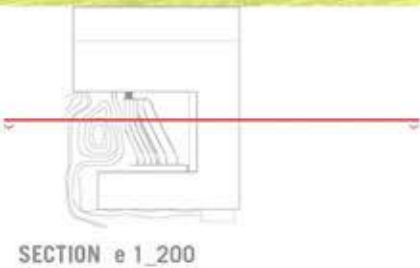






THE LIGHT BOX

At a lower scale, the building makes a new wink to the programme. The Control Centre (Regional and National Control), the most important place in the building, becomes an element capable of singularity and set the access. As a light box, it shows forward the facade indicating the entrance point and masters part of the hall, characterizing the building. Thanks to a LEDs backlight that is placed behind the glass that forms the exterior finish of the opaque envelope, the light box color may change resulting in sequences and environments that are always different.



SOCIAL GARDEN

The building shape encloses a great garden where common spaces, of floor plan and basement, meet. Thus, exterior landscape becomes part of the common area, creating a space for recreation and leisure for workers. As well, the garden view from inside the offices gives working spaces a great illumination, becoming a nice place to work.

