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Biotopes

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Building Materials

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CHIRON

The Placement in the Nerve Centre of the Site

The development direction of the design is based on the landscape, where it stems from. The placement of the building is in the middle of the site in order to leave enough open space and gardens surrounding the building, which has a symbiotic relationship with the site through the systems of circulation, energy, water, vegetation and heating. The central location enables the possible future expansion of the building as well. The diamond shape of the building creates four corner areas on the site with their different characteristics and different relationships to the surrounding plots. The library site becomes an outdoor livingroom for the citizens and has a large variety of different activity spots, as well and open flexible spaces for events.

Contextual Divisioning of the Site

The north eastern corner is for easy access to the site with car and out to the garage and this area has been separated by vegetation from the actual entrance area of the museum.

The north western entrance area is the inviting open space for activities also with the neighbouring kindergarten. It connects with the neighboring pedestrian circulation and green network.

The south-west corner has a rainwater pool and a fascinating pedestrian bridge over it from the street. The south eastern part connects the area with the gardens of the eastern side with its landscaped garden and the future public building. An important feature of the concept is the many connections across the site creating easy access from all directions and also through the building.

Sustainable and Eco-Friendly

We suggest eco-friendly components for environmentally sustainable systems, including renewable energy, rainwater use and biodiversity. The strategy for energy production for the library is to produce geothermal heating and cooling on the site under the garden surrounding the building. The garden also includes solar panels for the production of electricity. Rest of the electricity required is bought, sustainably produced electricity with green certification. The plan increases the biodiversity of the site. The use of renewable wood extensively in interiors supports the health and well-being of the users. There is rainwater management including a garden pool, the convex roof and the watering system for the hanging gardens in the main patio. The facade of the building has been designed to prevent excessive cooling or heating.

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Building Materials

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1. Underground Car Parking Lot: 1691 m²
2. Technical Space (air conditioning machinery, heating and cooling control, electricity): 476 m²
3. Lounge: 47.6 m²
4. Main Information Desk: 27.2 m²
5. Book Cafe: 238 m²
6. Office: 183 m²
7. Office/Pantry/Lounge: 34 m²
8. Conference Room: 54 m²
9. Chief Executive Office: 34 m²
10. Archive: 34 m²
11. Workers' Cloak Space: 20 m²
12. Auditorium: 460 m²
13. Technical ducts: 18.2 m²
14. Storage: 18 m²
15. Preservation Room (Stacks): 343 m²
16. Incoming Materials/Arrangement: 68 m²
17. Resting Zone for Sanitary Workers: 19 m²
18. Server/Communications: 70 m²
19. Technical: 6.7 m²
20. Technical: 25 m²
1. Book Rental/Return 47.6 m²
2. Children's Materials 693.6 m²
3. Learning Space 218 m²
4. Club Room 68 m²
5. Volunteer Room 41 m²
6. Exhibition Space 131 m²
7. Multimedia 263 m²
8. Technical Ducts 18.2 m²
9. Storage 18 m²
10. Cultural Class 68 m²
11. Feeding Room 68 m²
12. Infant Material + Communications Room 81.6 m²
13. Common Space 151 m²
14. Book Rental/Return 47.6 m²
15. Library Space 1494.2 m²
16. Cultural/Educational Classroom 210 m²
17. Technical Ducts 18.2 m²