

INTRODUCTION

This turnkey competition is for a new \$US 350 Mil regional headquarters for the Korea Land and Housing Authority located in the Innovation City region of Jinju, Korea. The new planned community west of the existing downtown core will include relocated government/ public agencies, housing, commercial, academic, cultural and sports, and opens space network in the spirit of a green city.

The TK Competition focus is the site development of 98,500 SM site for the new 132,700 SM regional headquarters which will include office, exhibition, cultural, sports and public open space.







VISION

The Korea Land and Housing Authority (LH) vision for the project is to create a "millennium building." The new regional headquarters wants to be luxurious but have a sustainable qualities for longevity. As a sustainable new facility LH seeks smart building design and technologies including passive energy design solutions, maximized use of natural light and ventilation, limited curtain-wall facades, and strong campus environment for staff and guest circulation.

Mission and Vision

Mission

To stabilize a citizen's housing life and to efficiently use national land in an effort to improve the people's quality of life and to spearhead national economic developmen

Design + Energy + Budget



Vision

A first-class land and housing service corporation that lays the foundations for happy lives

To create a happy residential space for everyone. To develop future-oriented, new growth, green cities To go global in the arena of land development

ER HJ





DESIGN GOALS

- LH Excellence: Highly sustainable design solution with smart building systems
- Eco-Friendly Campus: Create a new eco-friendly campus with enjoyable vertical circulation that is integrated into the city urban networks
- Secure: Create a secured environment for offices within the public accessible campus
- Community: Create quality public spaces ~ min 10% public open space
- · Symbolic: Local Korean Identity with celebration of the green environment





PROGRAM

LH Regional Headquarters

Net

Gross (1.35)

Design + Energy + Budget

Office 19,518 SM 26,350 SM

Office Support 31,080 SM 41,950 SM

- Assembly, Conference, Education, Broadcast Lounge. Data Room, Management, Restaurant Social Room, Amenity Store, Trade Union Office

Subtotal 50,590 SM 68,300 SM

Welfare

- Bank, Clinic, Cafeteria, Amenities 2,000 SM

Culture and Sports 6,800

Exhibition 10,500

Child Care 1.750

Subtotal 21,050 SM 28,417 SM

Parking 31,500 SM

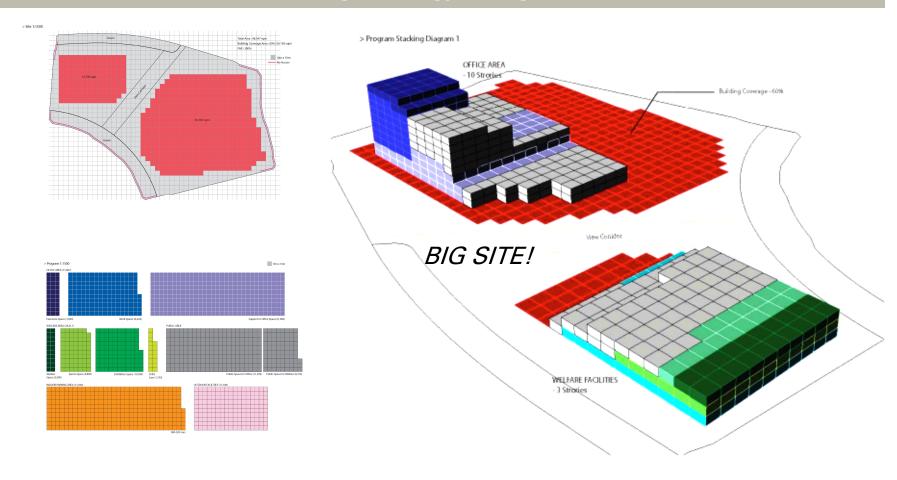
- Indoor 900 – 920 Stalls

- *Outdoor* 500 – 510 Stalls

Outdoor Sports+ Exhibition Facilities 17,180 SM

Total 96,700 SM

PROGRAM ANALYSIS



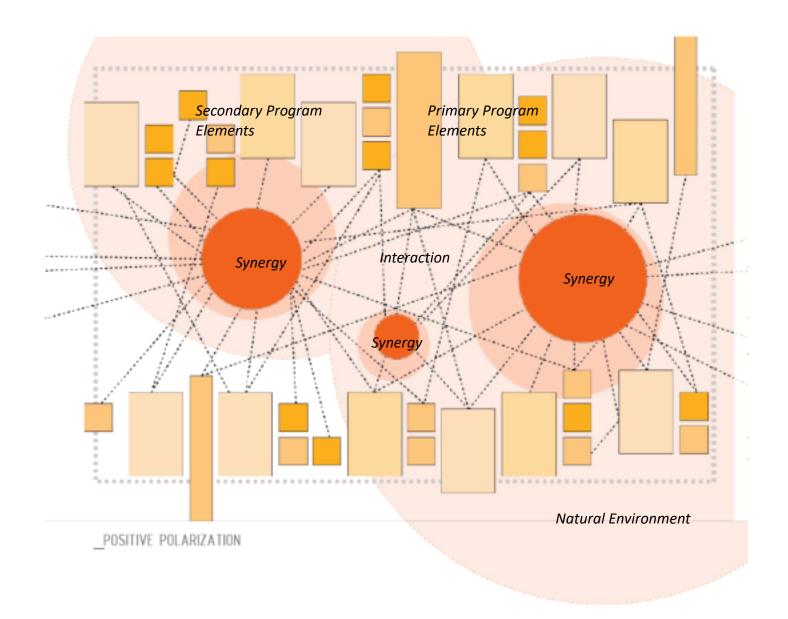


PROGRAM CONSIDERATIONS

- LH Values
- Campus Design Strategy
 - Vertical vs. Horizontal HQ Office Tower
 - Land Use Strategy
 - Open Space Strategy + Integration
 - Number of "stand-alone" Buildings
- * Workplace Culture







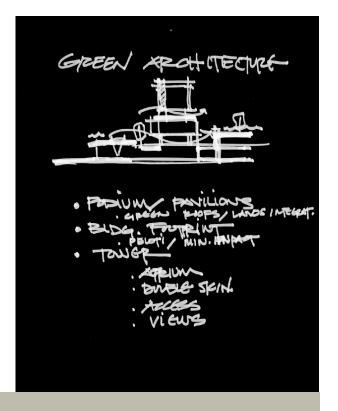
PROGRAM CONSIDERATIONS

- Sustainable Green Building Strategies
 - Land, Transportation, Energy, Material & Resources, Water Resources, Atmospheric Pollution, Maintenance, Ecological Environment, Indoor Environmental Quality
- Connectivity with Urban City
 - Vehicular + Pedestrian Networks
 - Natural Environment
- Public Image & Amenities



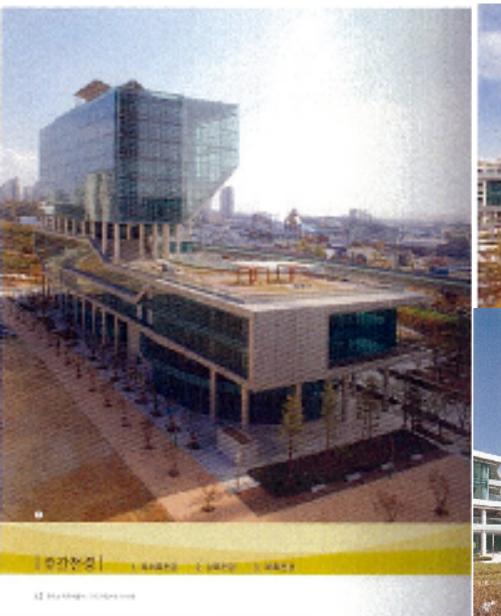
SUSTAINABLE DESIGN CONSIDERATIONS

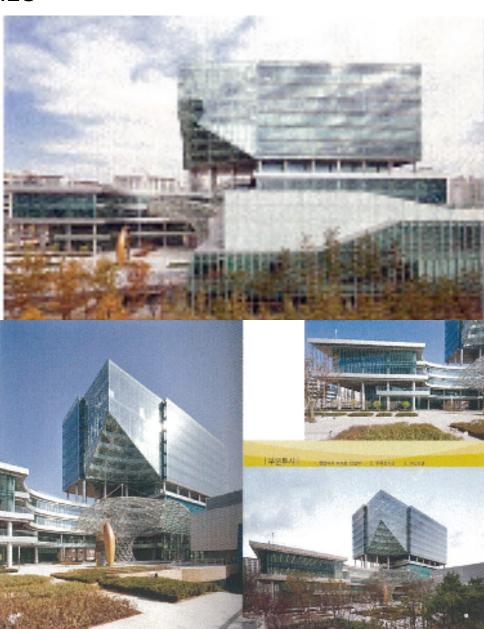
- Natural Lighting for Public Spaces + Users
- Solar Control ~ West Façade
- Building Systems + Materials
- Energy Saving Strategies
- Maintenance
- Interior Environment Quality





LH REGIONAL HQ EXAMPLE FACILITIES





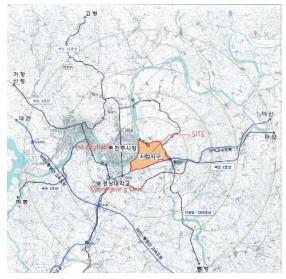
LH REGIONAL HQ EXAMPLE FACILITIES





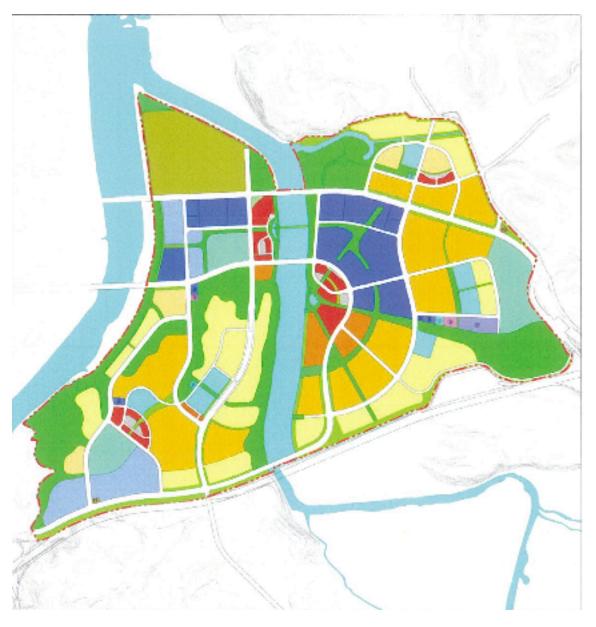
- Context & Visibility
 - Urban Context +Visibility
 - Overall Building Massing, Building Height, Materiality
- Site Orientation and Views
 - HQ Office Tower Location & Solar Orientation + Views
 - 30 m Mountain View Corridor
- Vehicular Flow & Circulation: Front Door Address?
- Pedestrian Flow & Circulation
- Connectivity
 - CBD Urban Networks
 - Public Open Space



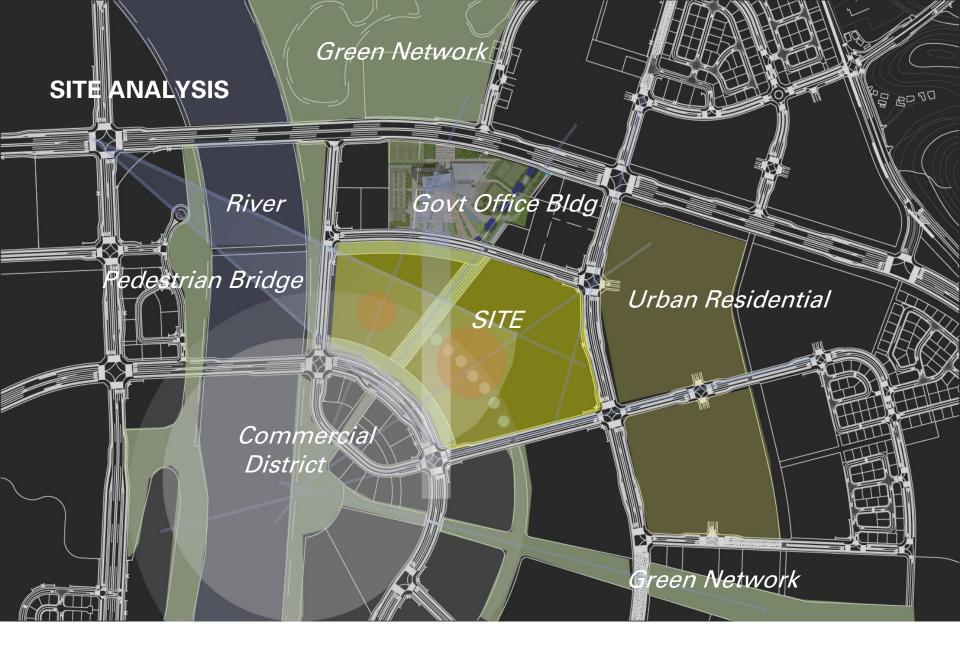








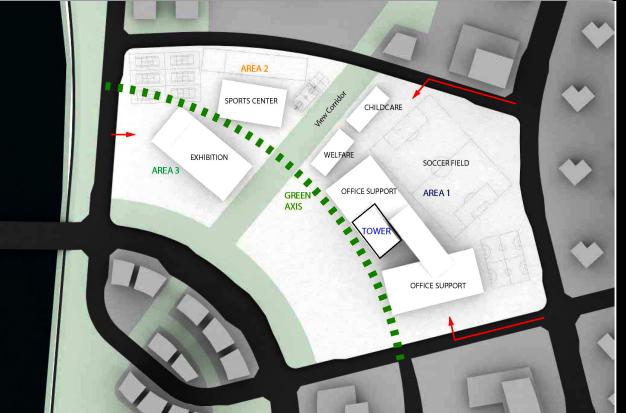
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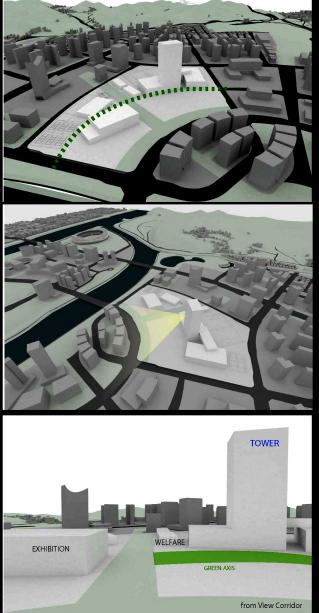


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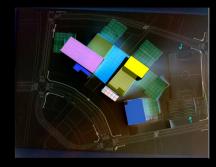


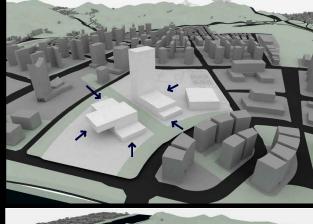


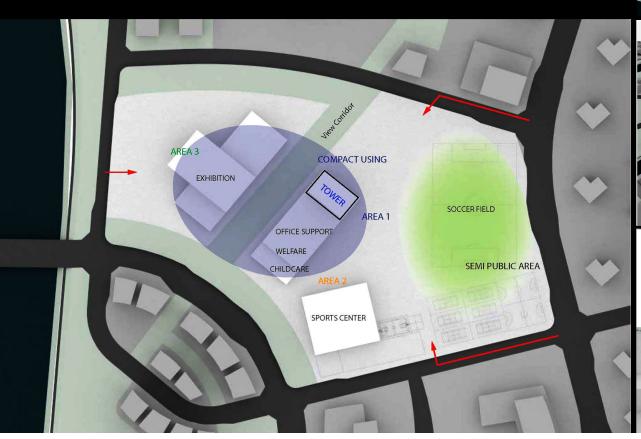


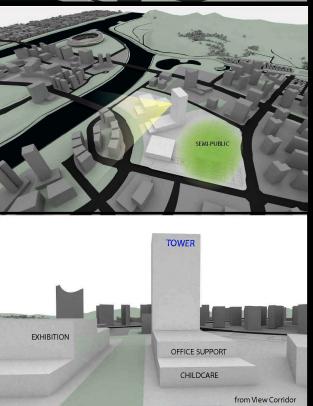


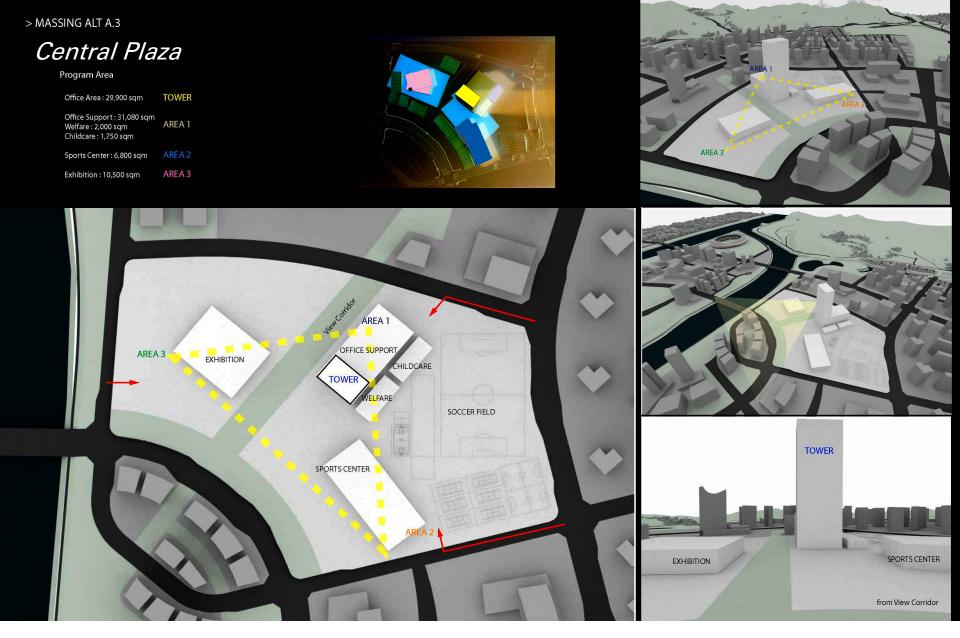
Exhibition: 10,500 sqm

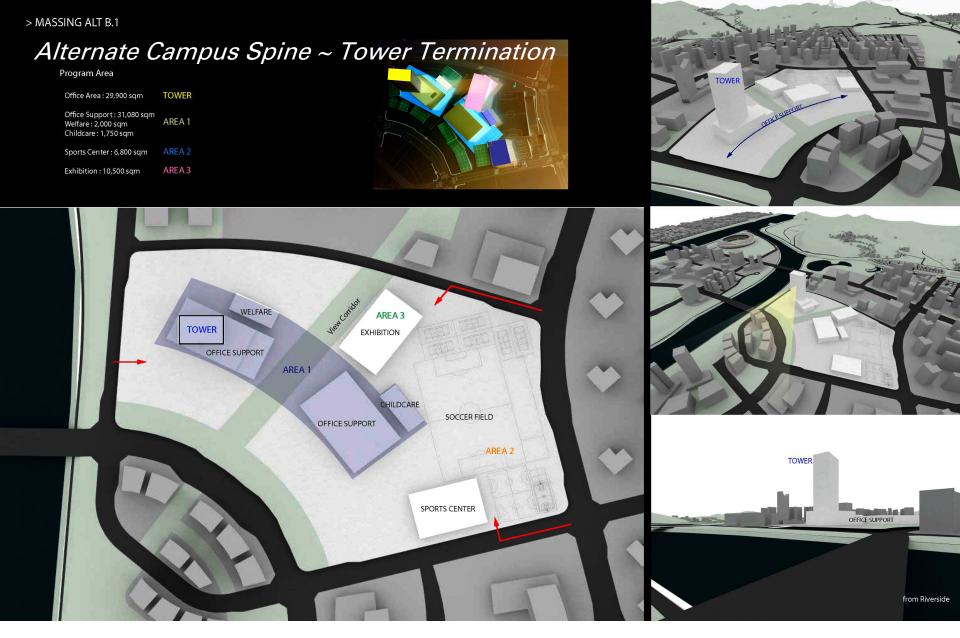


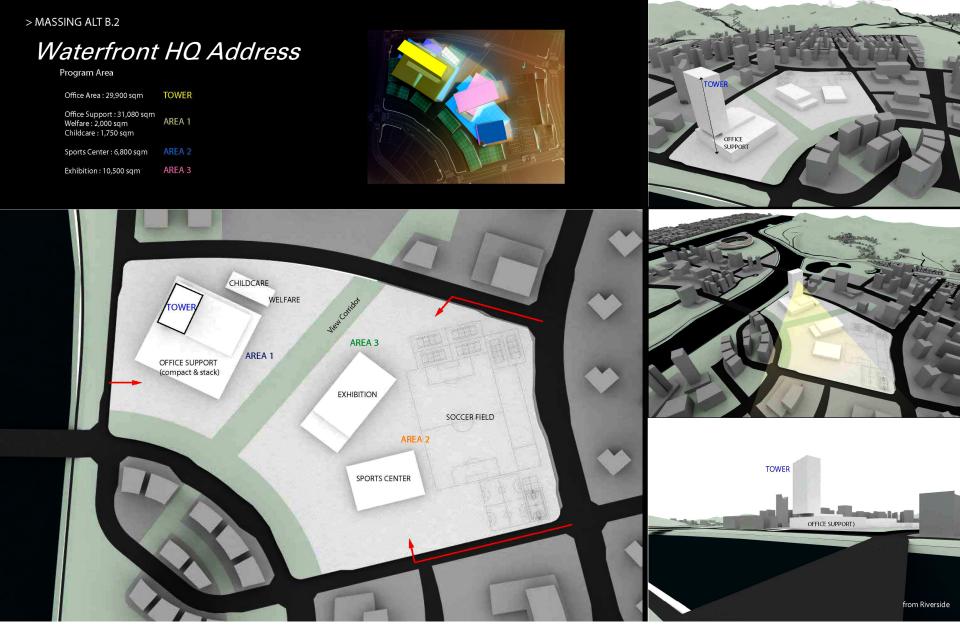


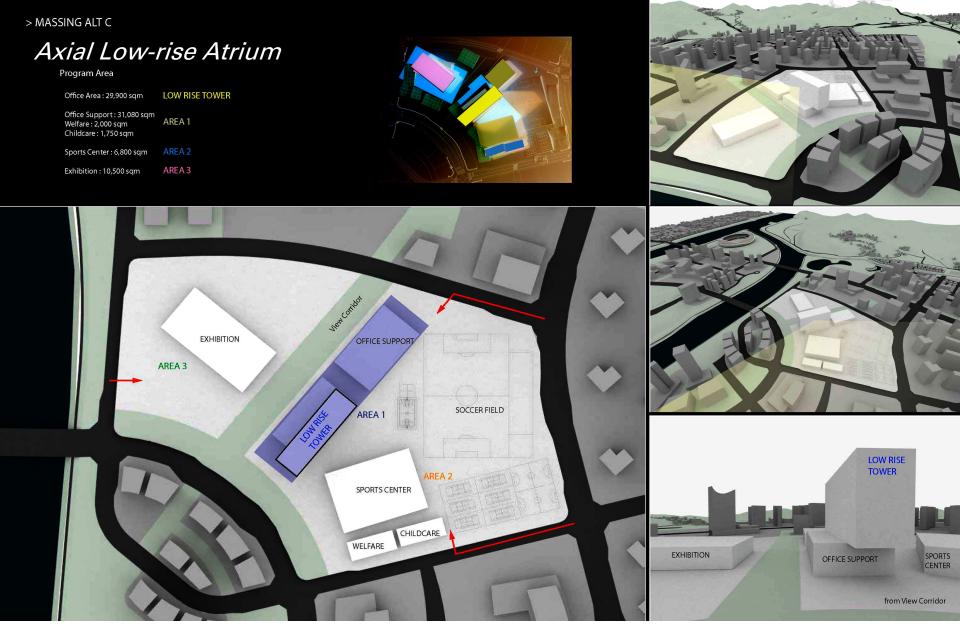




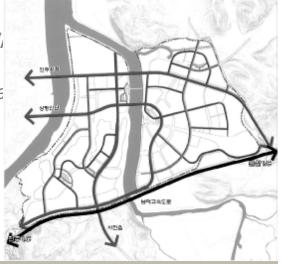


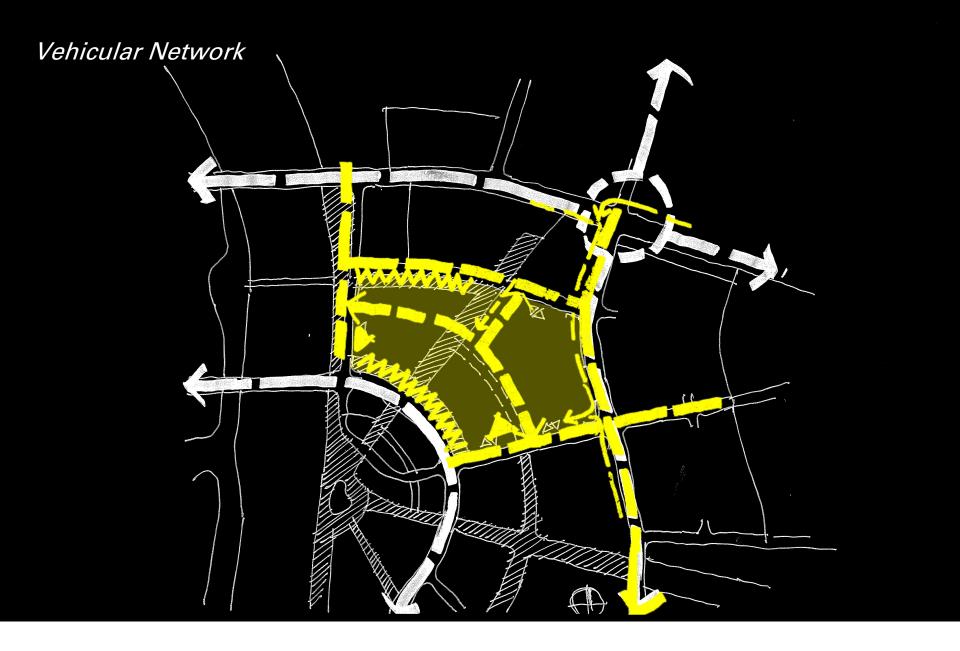






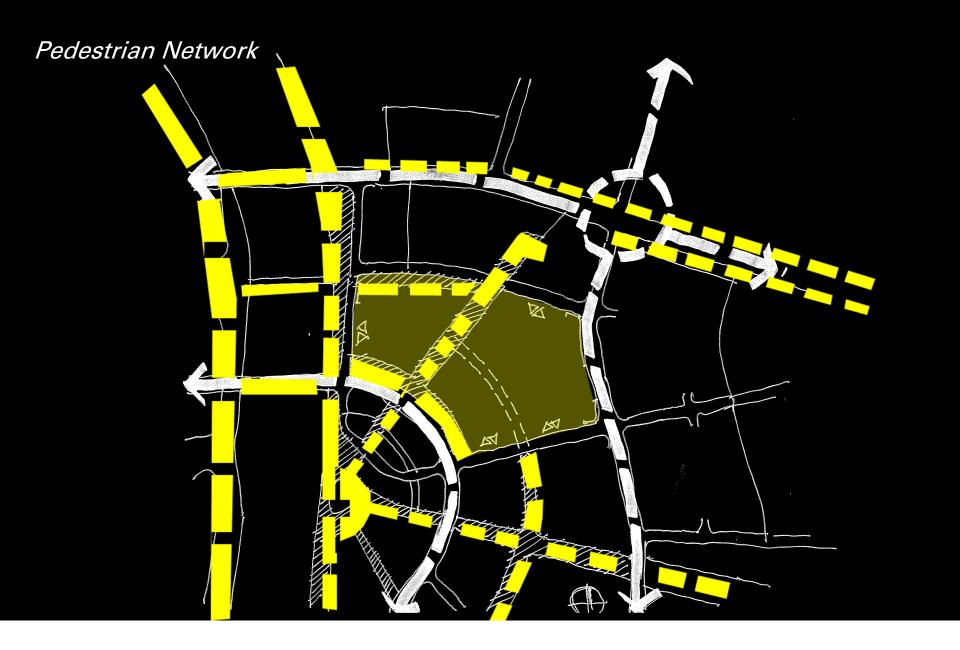
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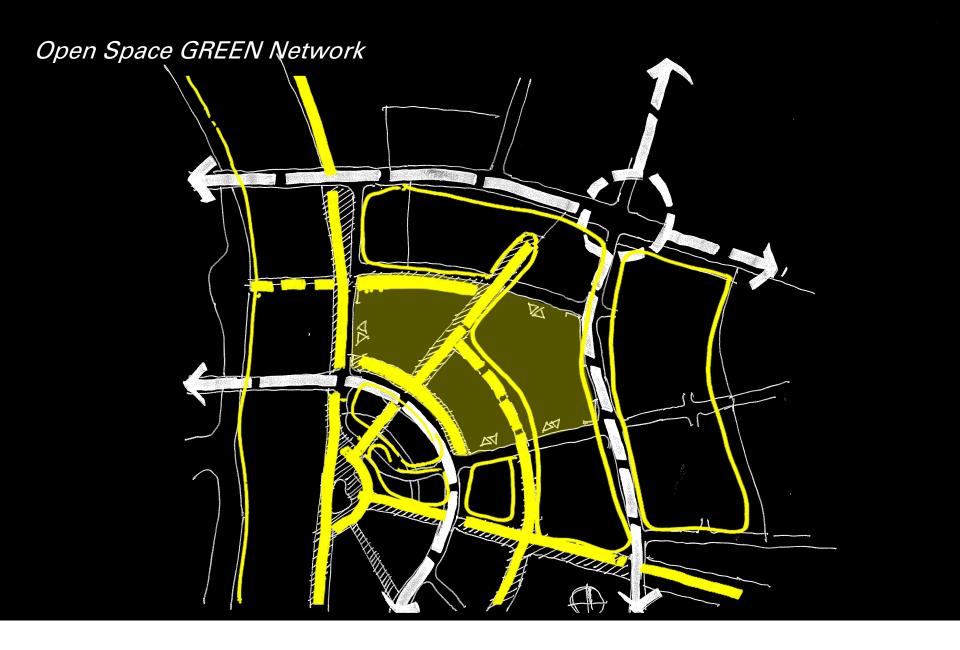


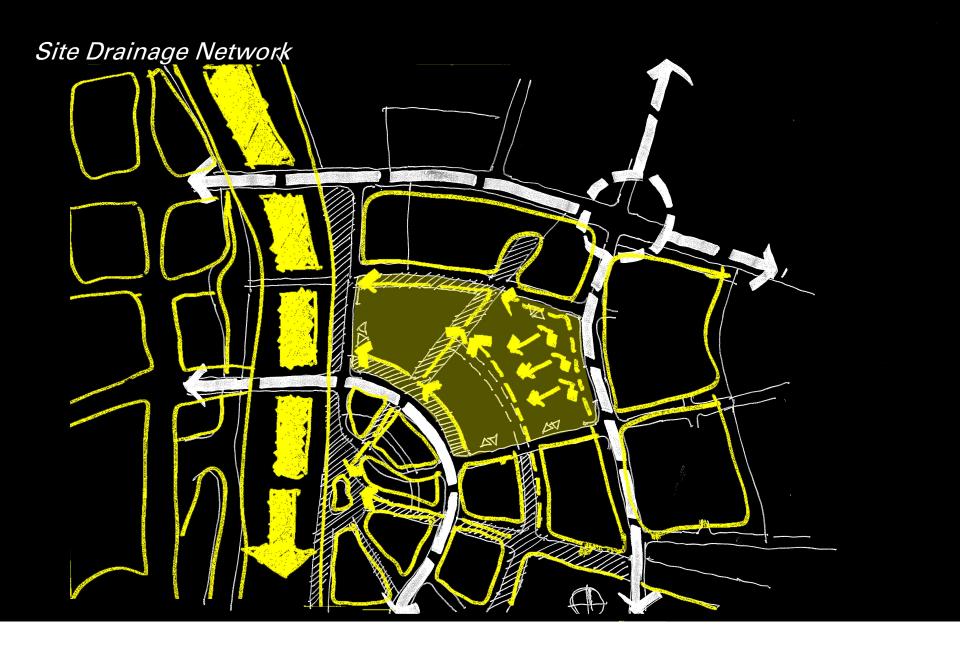
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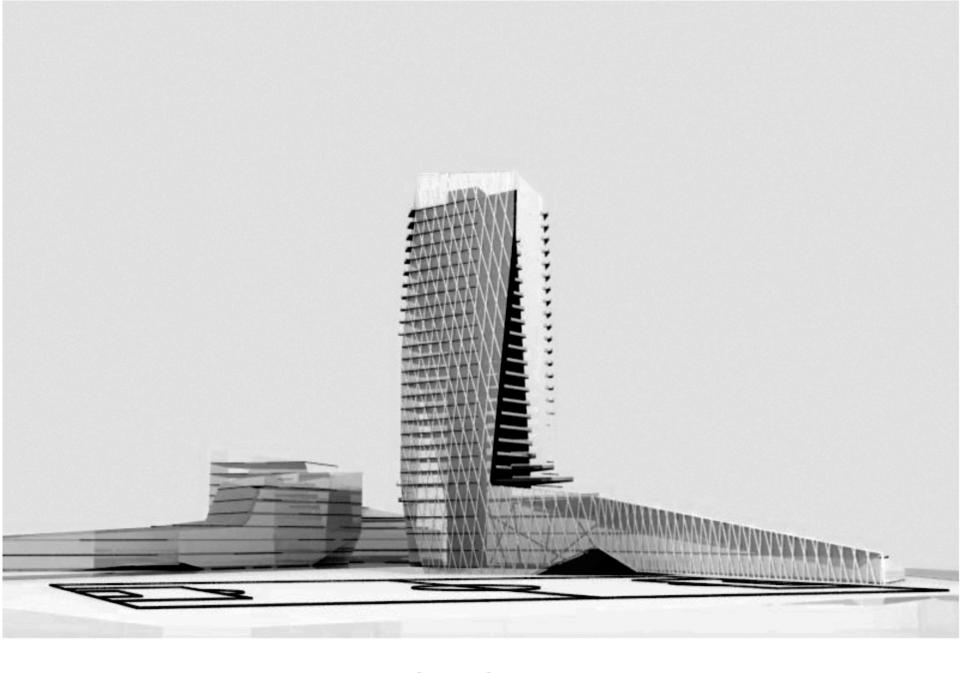






DESIGN EXPLORATION CRAG

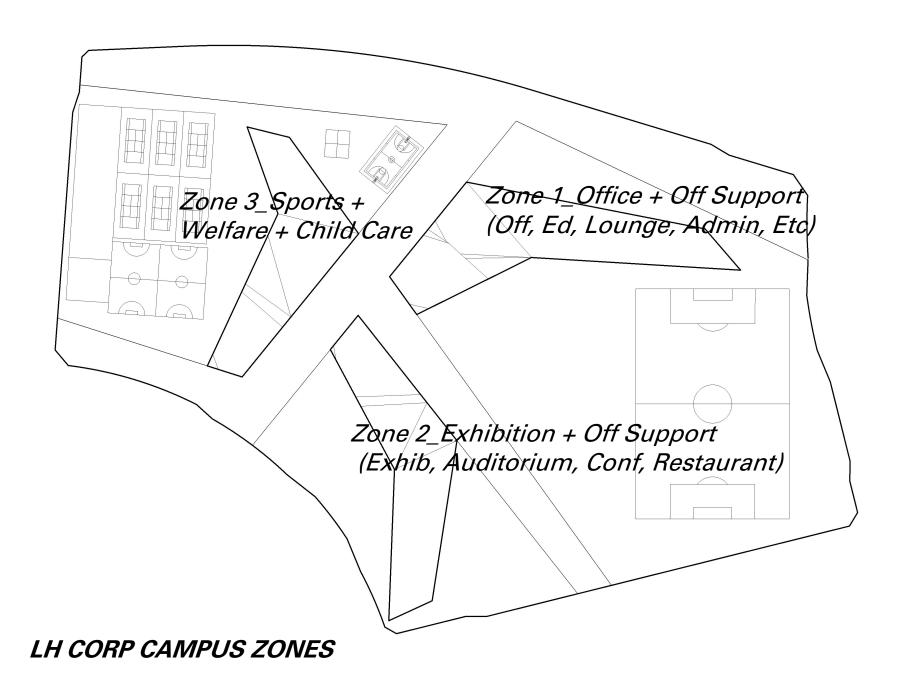
a steep rugged projecting part of rock formation

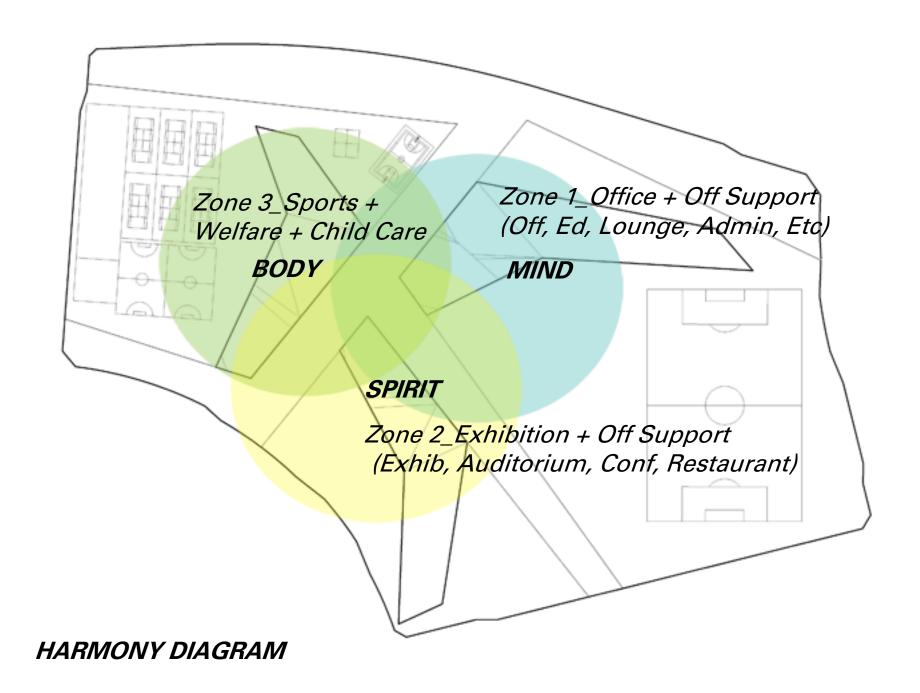


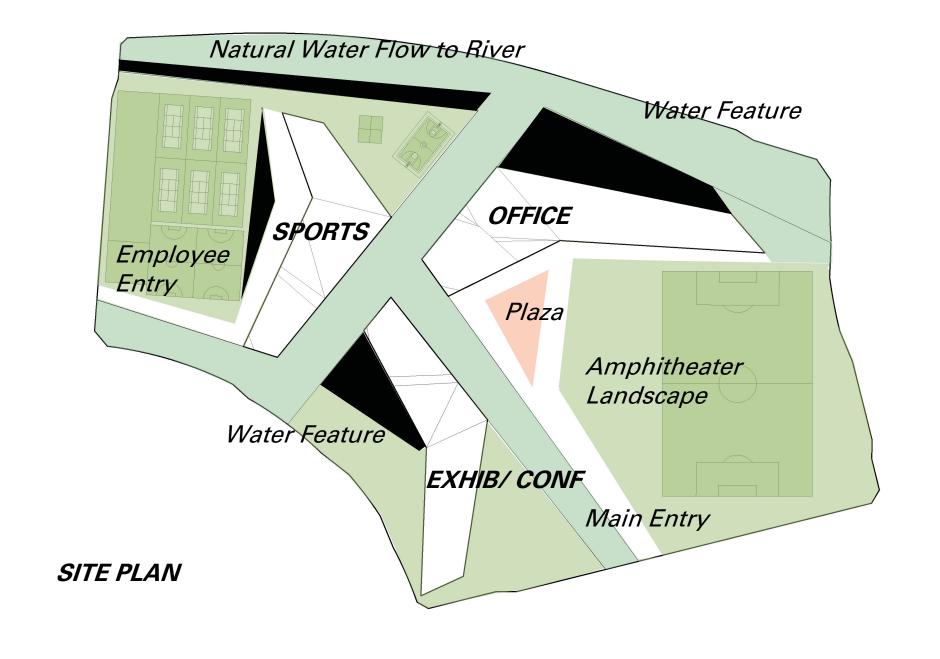
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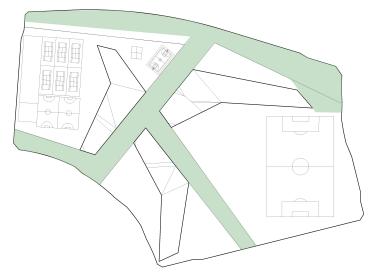


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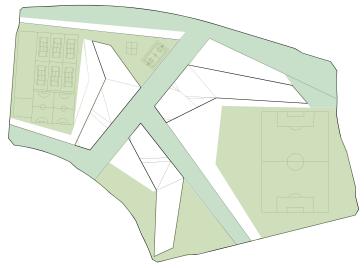






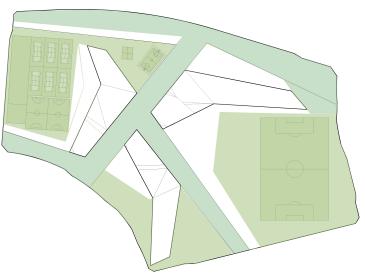


Natural Green Network

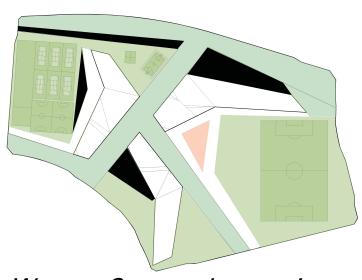


Public Open Space





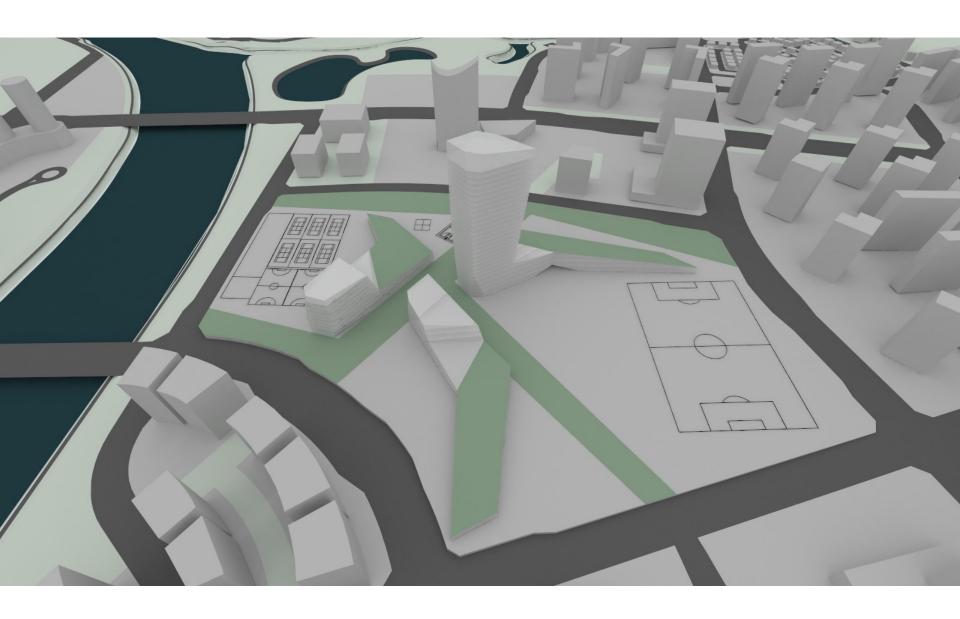
Campus Outdoor Amenities

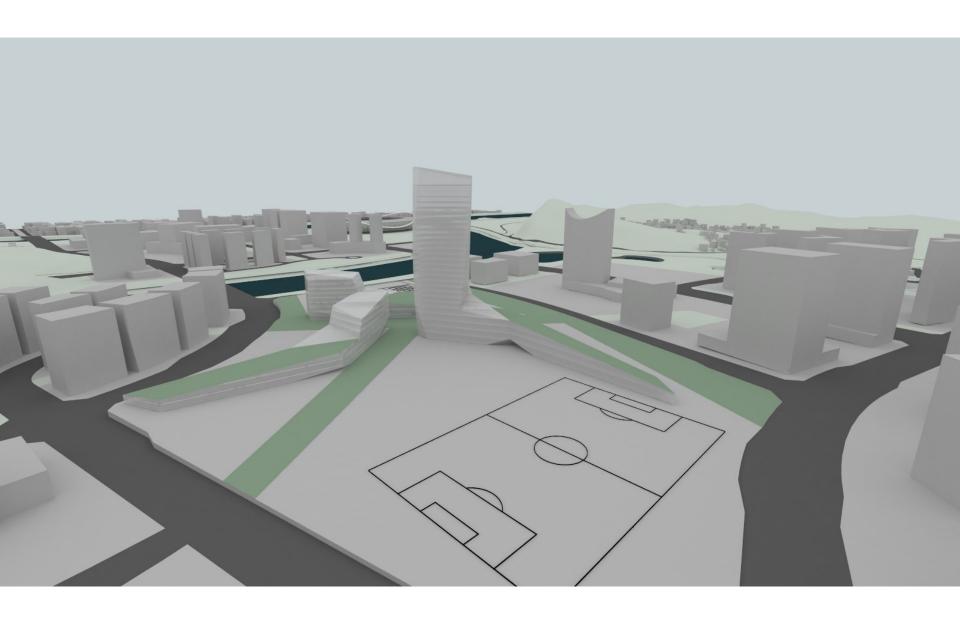


Water + Campus Integration

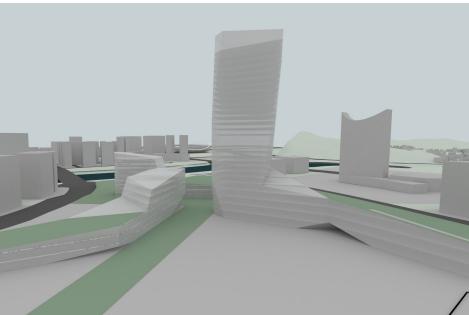


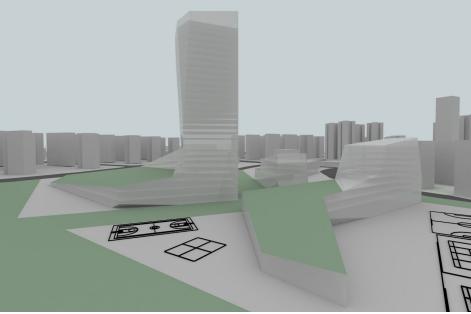
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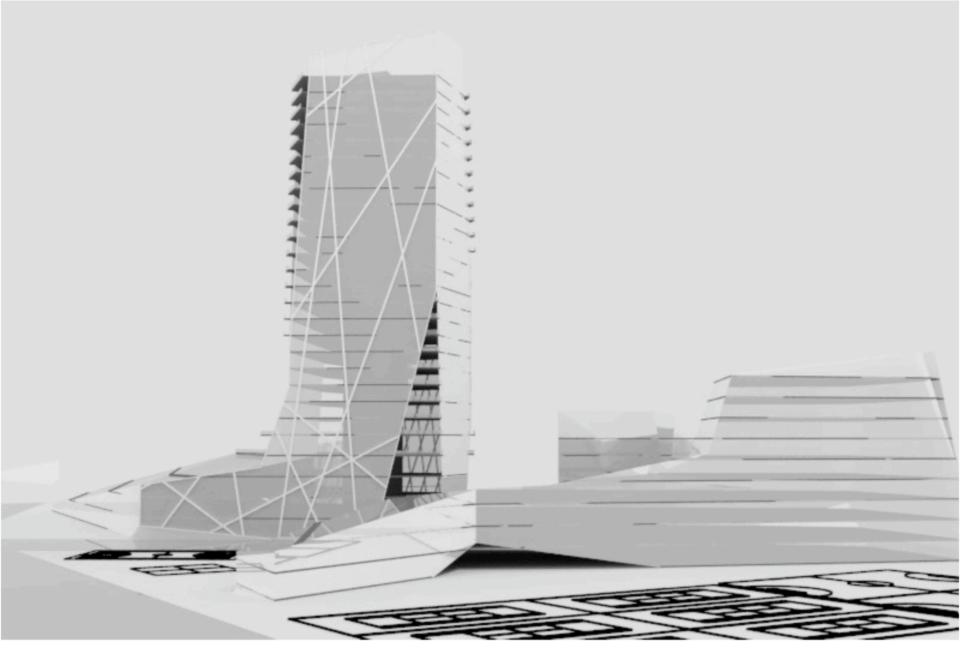




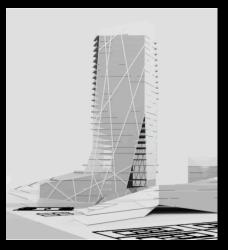




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1 Crag

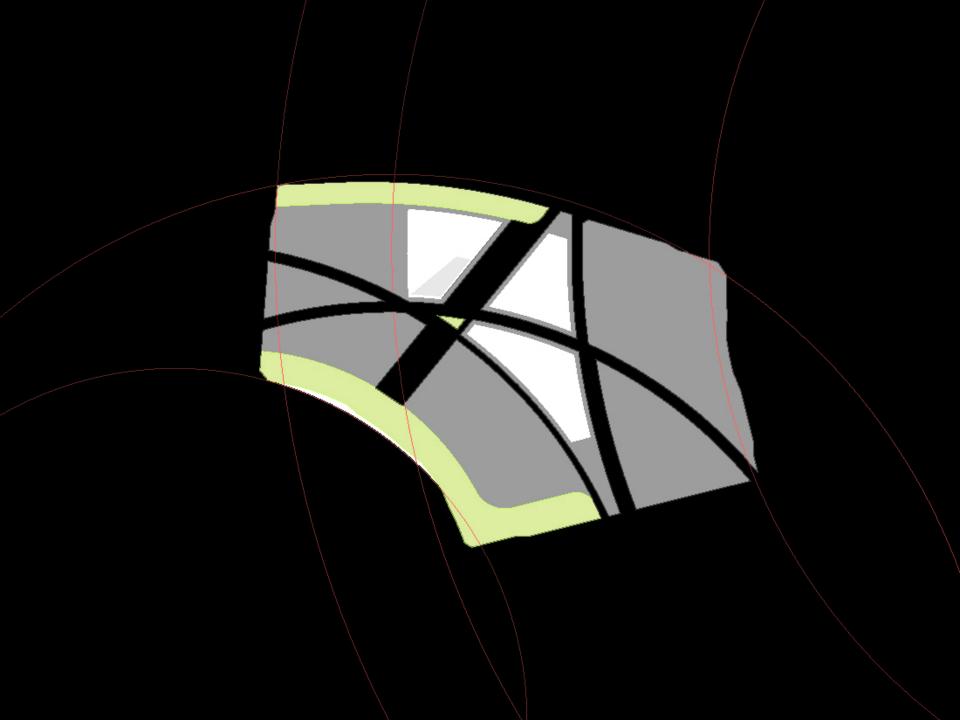
Approach

 Create a new building typology that promotes lateral cross communication between various departmental programs within a campus cluster of building organized around the GREEN NETWORK.

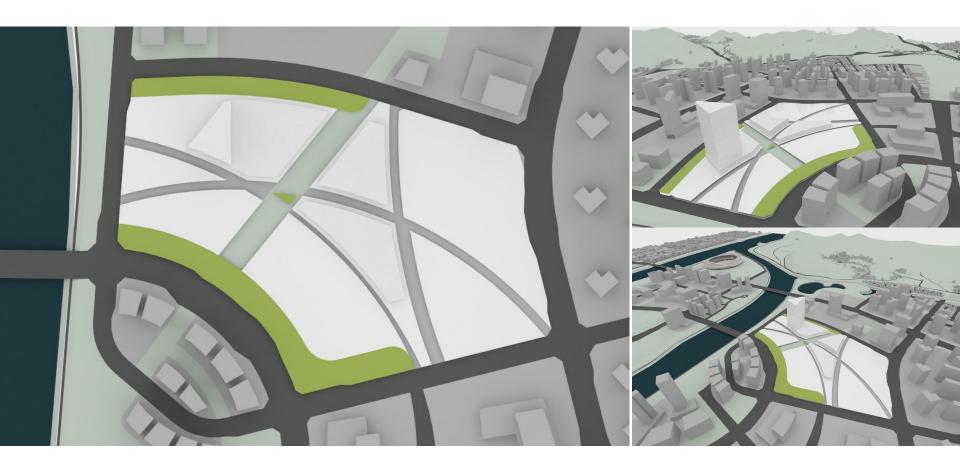
Design Attributes

- Thin floor-plate depth for natural lighting
- Reflection pool for rainwater retention and natural cooling
- Maximized roofscape for solar energy generation + green roofs
- Low building typology for campus-like corporate headquarters
 with landmark office tower element.

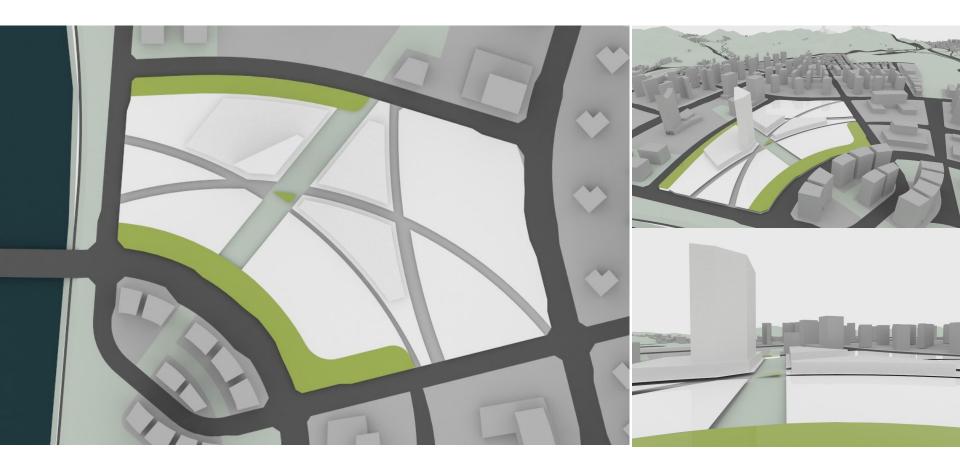
DESIGN EXPLORATION INTERSECT



DESIGN EXPLORATION 2 1

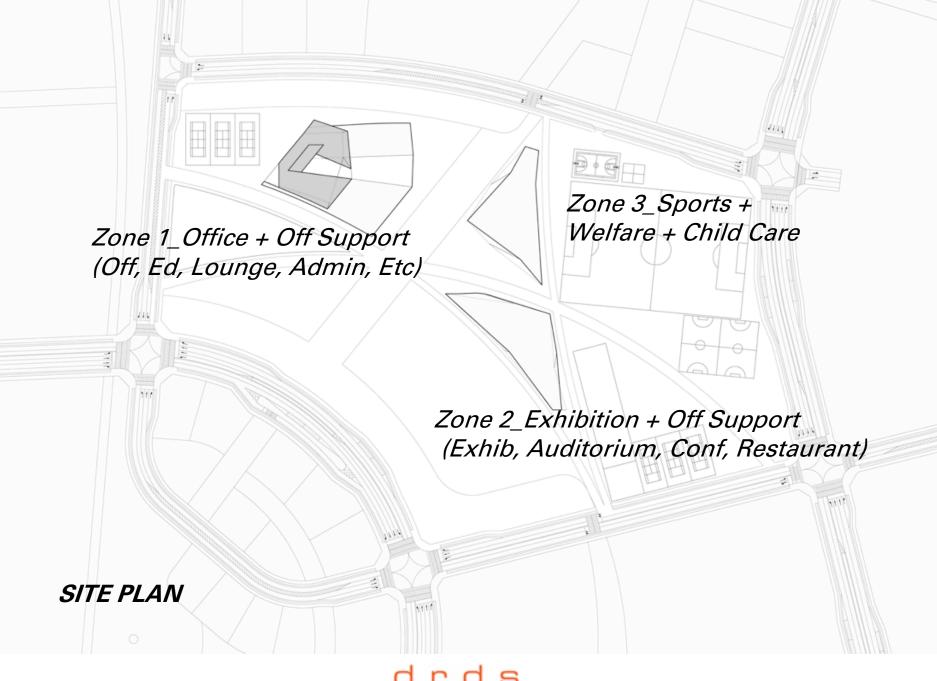


DESIGN EXPLORATION 2 2



DESIGN EXPLORATION 2.3

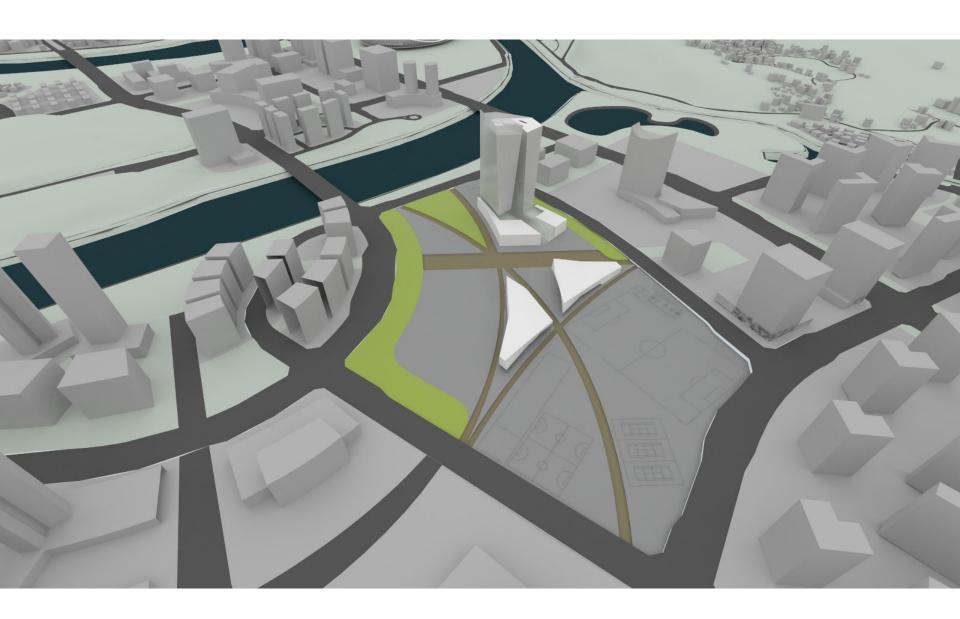




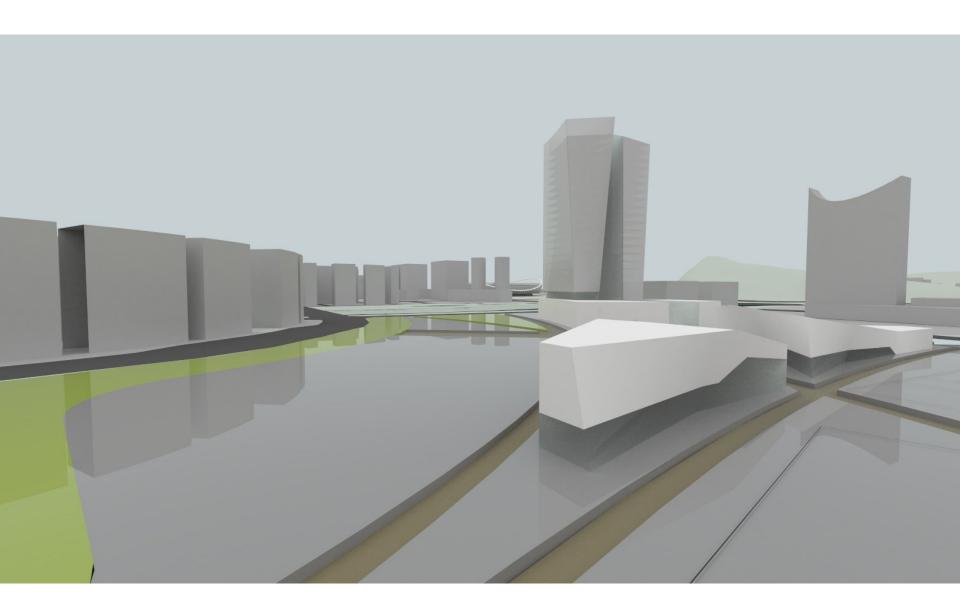


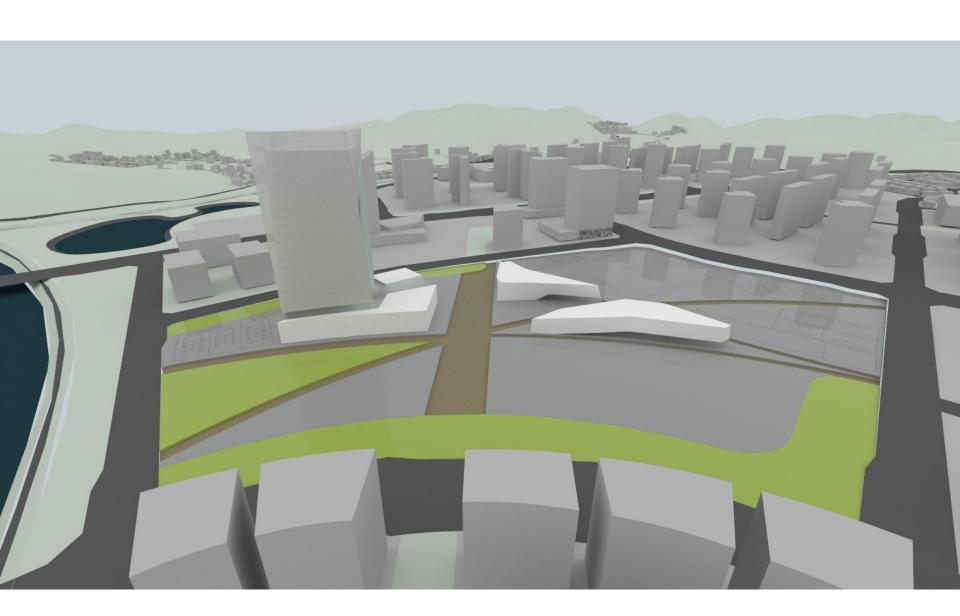


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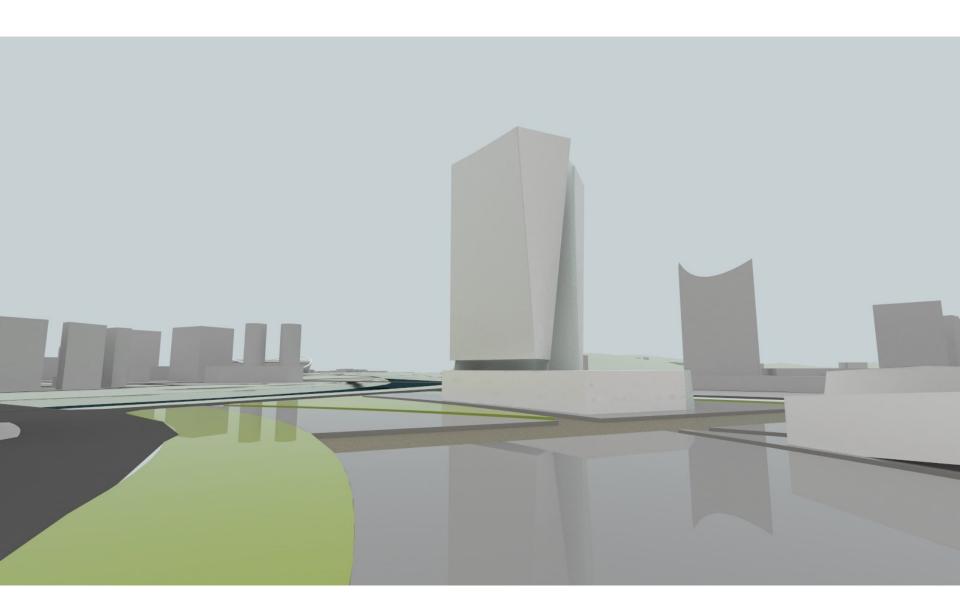


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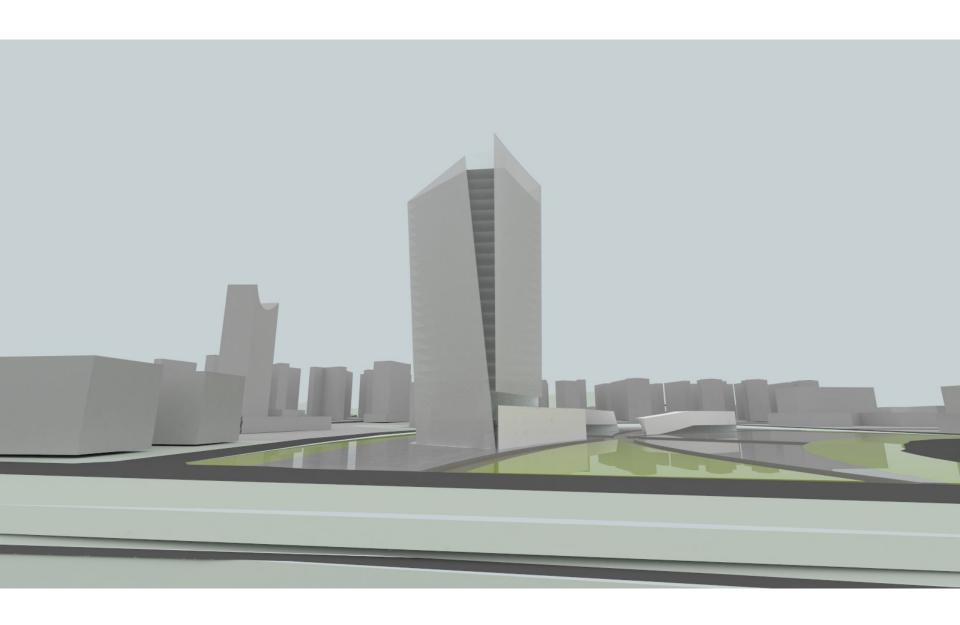




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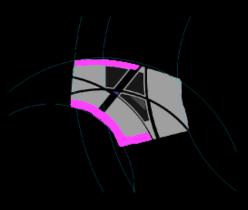


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2 Intersect

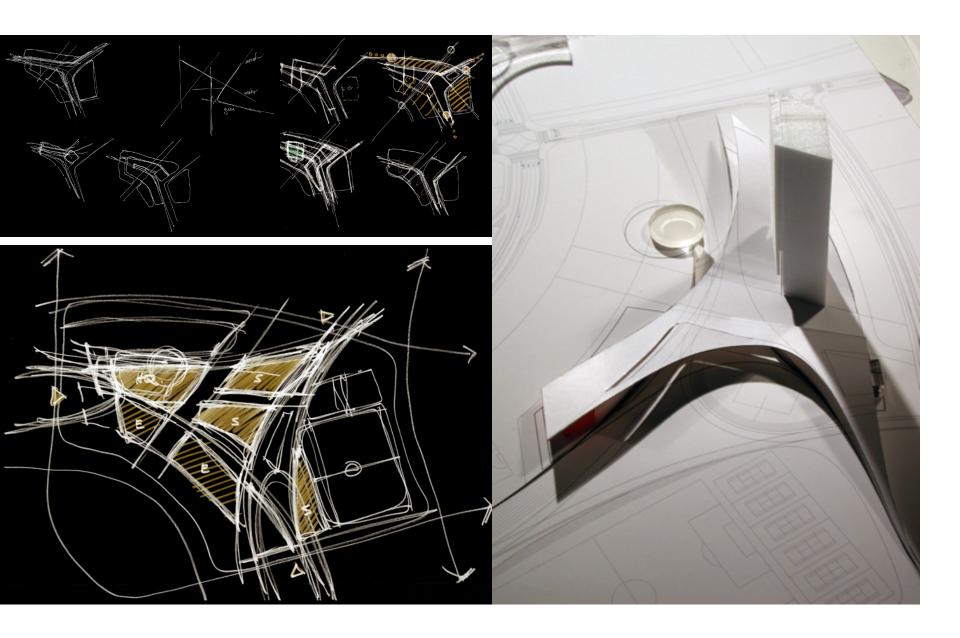
Approach

 Urban rings from the city grid intersect on campus to help inform a dynamic geometry which allows for campus cluster of building with strong pedestrian streets

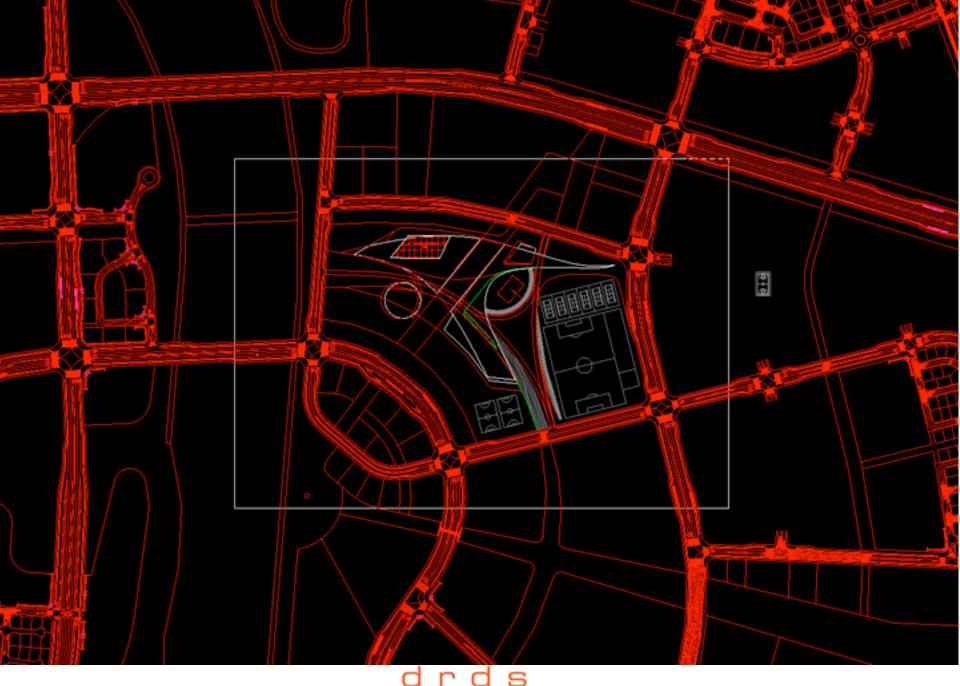
Design Attributes

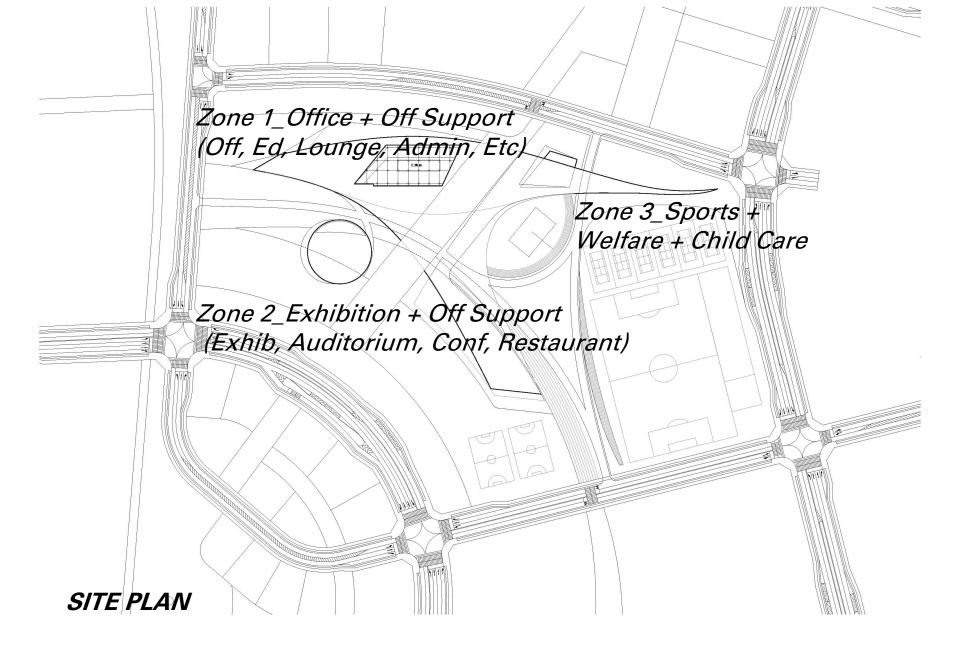
- Landmark Office Tower
- Podium Elements informed by urban radial grid
- Offer close communication and connectivity between program elements

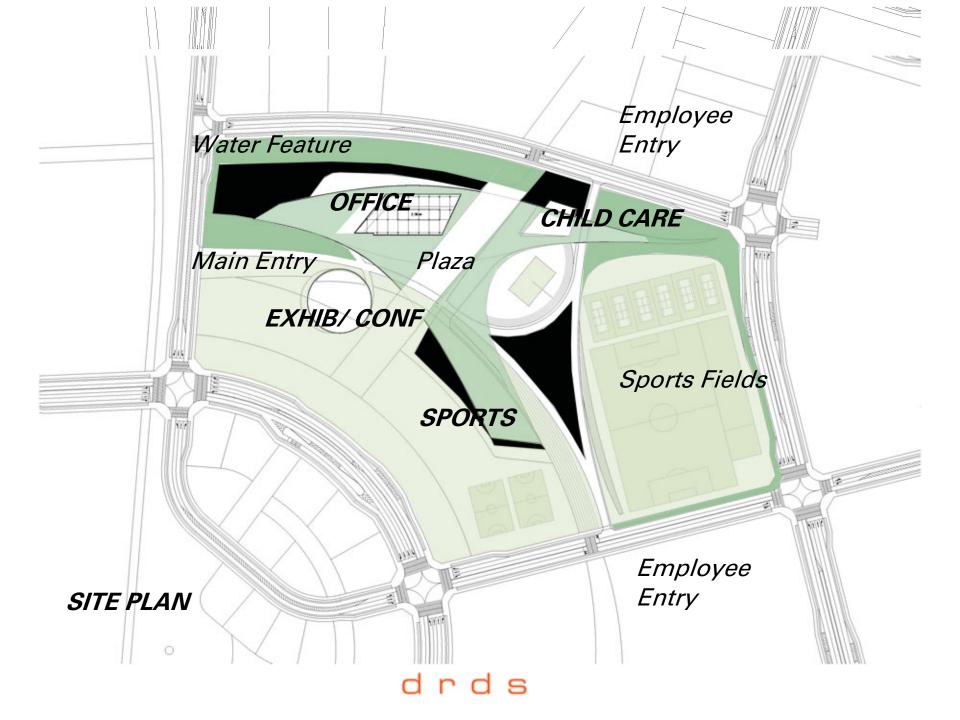
DESIGN EXPLORATION PLINTH

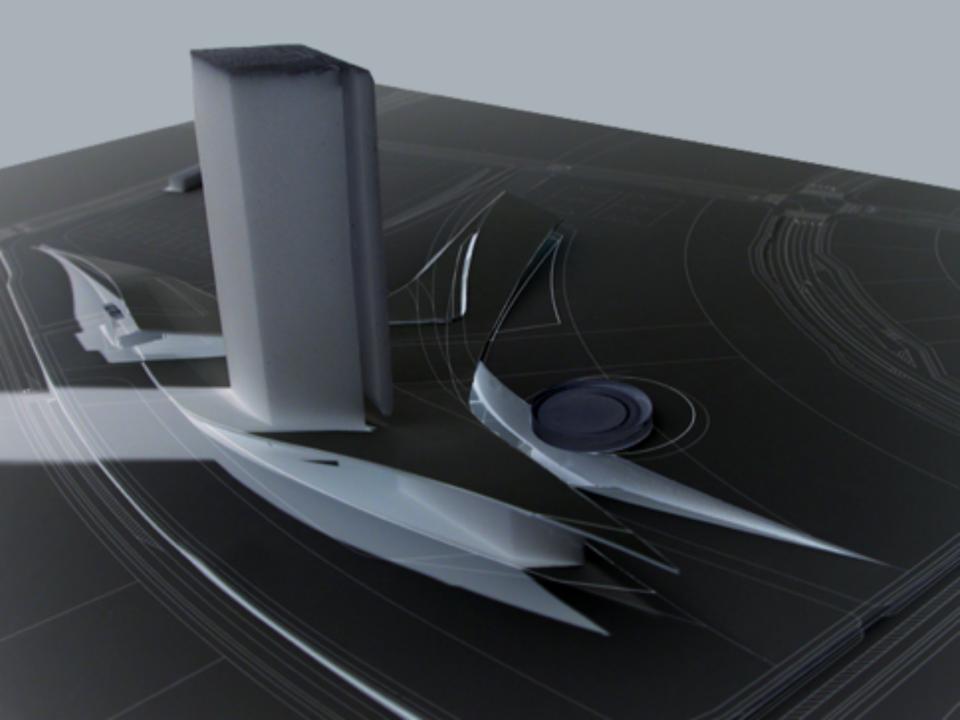


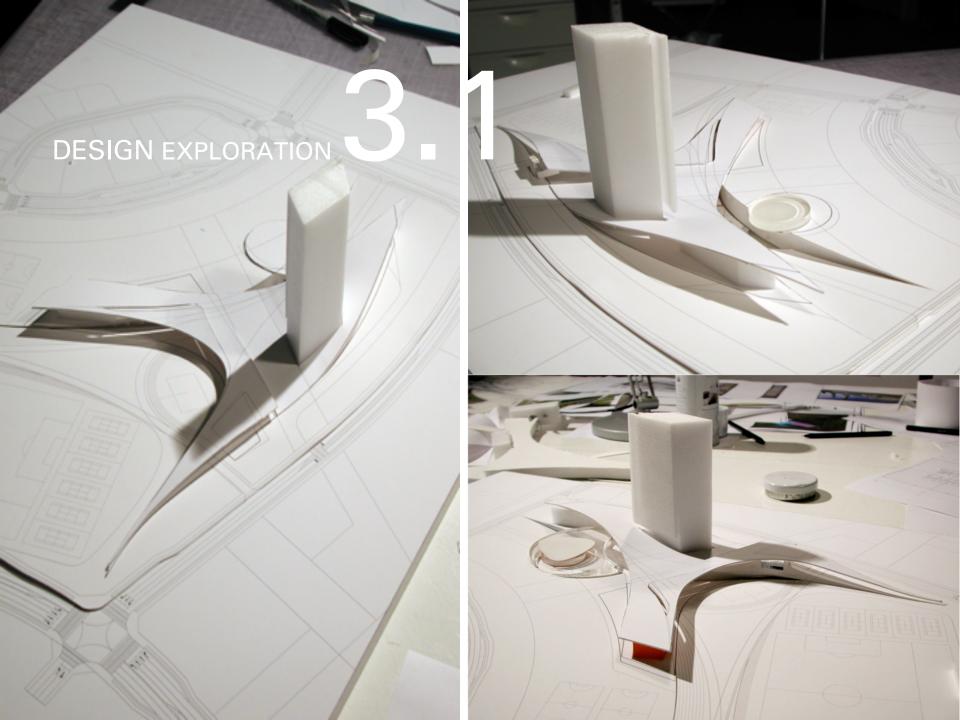
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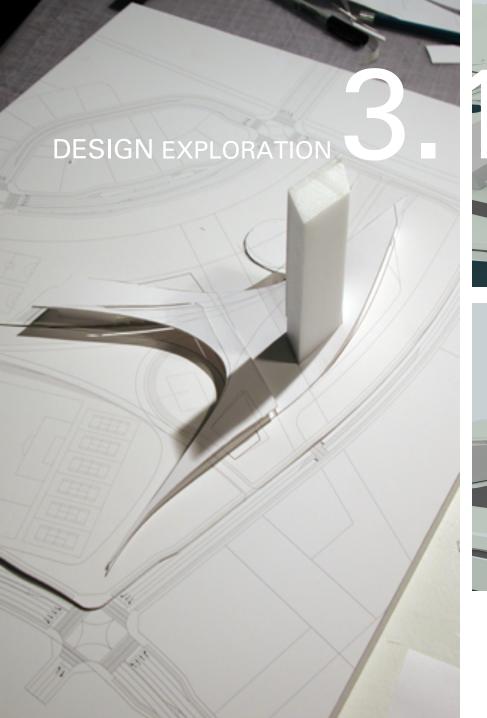




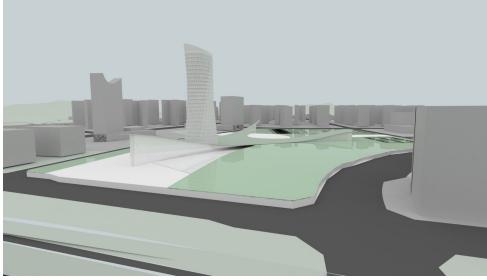


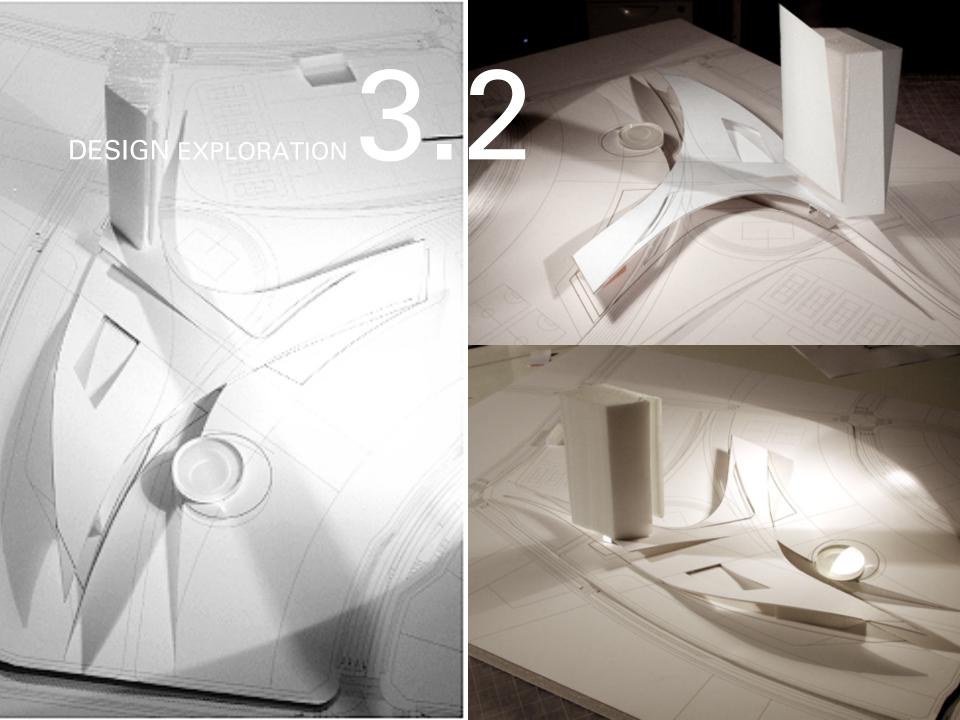


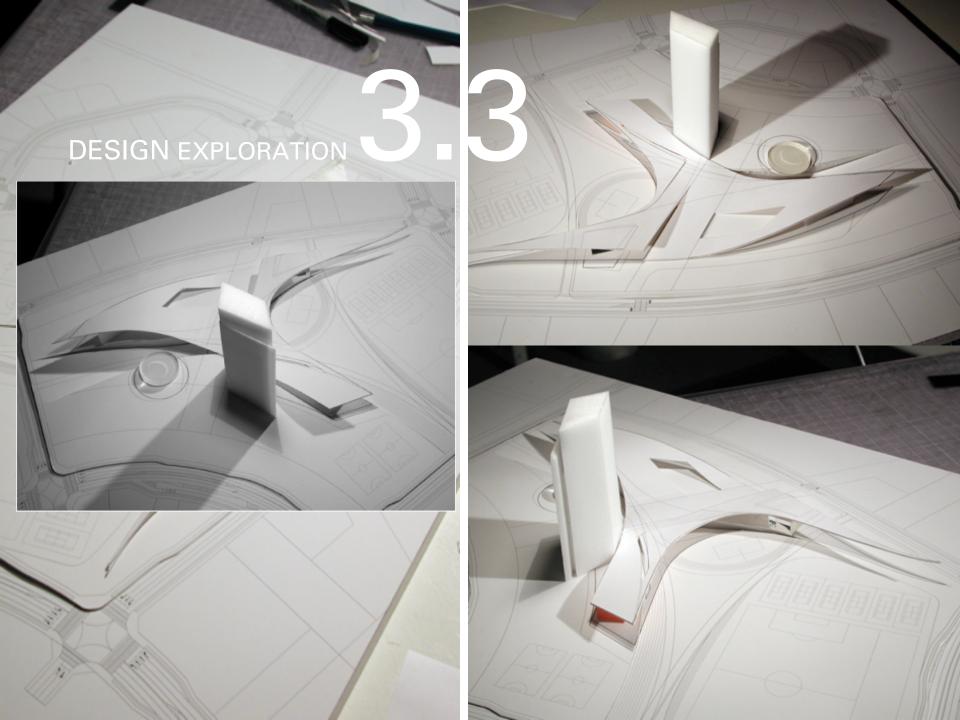


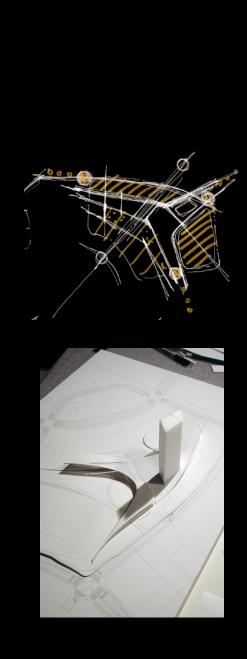












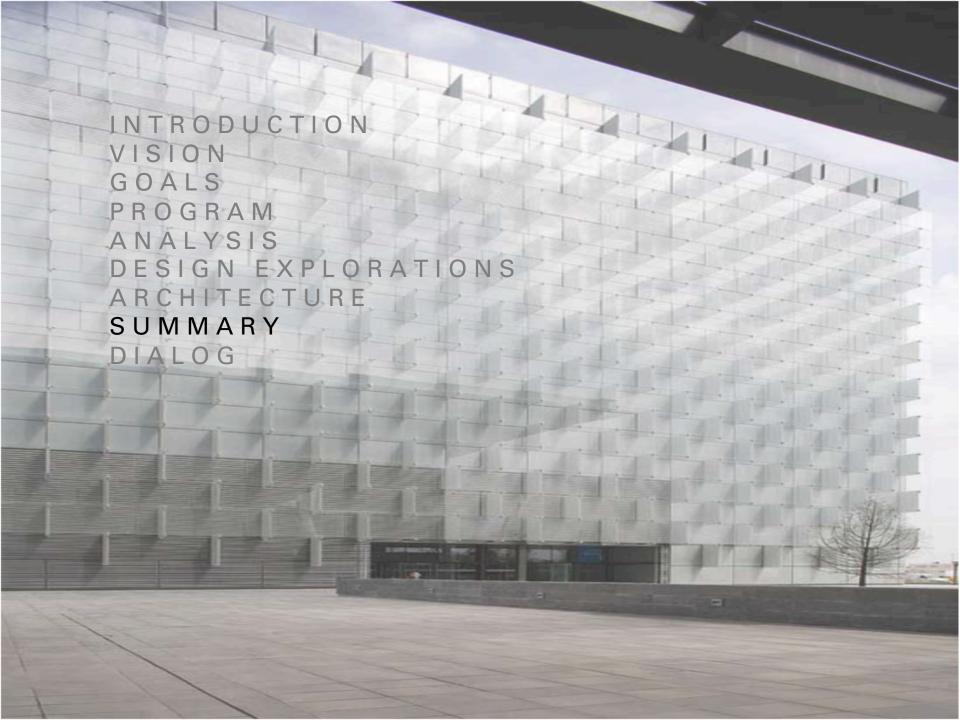
3 Plinth

Approach

Integrate the the site landscape and architecture in harmony utilizing sustainable concepts

Design Attributes

- Thin floorplate depth for natural lighting
- Reflection Pool for rainwater retention and natural cooling
- Maximized roofscape for solar energy generation
- Fractal canopy protection from harsh southern sun
- Low building typology for campus-like corporate headquarters



DESIGN EVALUATION

- _How does the new LH Regional Headquarters create a new millennium building?
- _Which Design Explorations celebrates innovation + sustainable design technology as
 - a demonstration for public benefit?
- _ What solution best balances 1) LH Regional Headquarters operations and 2) strong public open spaces for the local community to enjoy?

Design + Energy + Budget



EVALUATION CRITERIA

- Quality of LH Civic Image for the City of Jinju
- Innovation + Eco-Friendly Technology
- Organization + Relationship of Program Elements
- Efficiency, Energy Savings, Construction Cost, + Maintenance
- Address + Compatibility with Urban Context
- Quality Public Open Space

Design + Energy + Budget



