

MILWAUKIE, OREGON

Dianna Montzka | Winter 2015

Designing the downtown light rail adjacencies with nature: sun, water, and wind

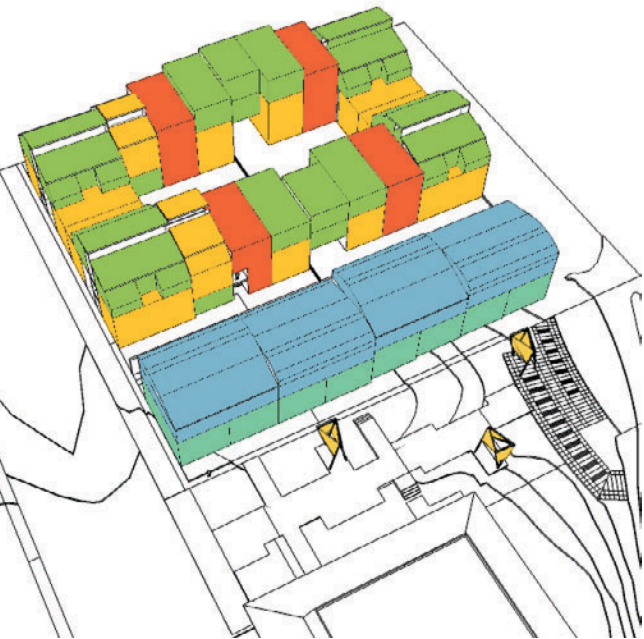
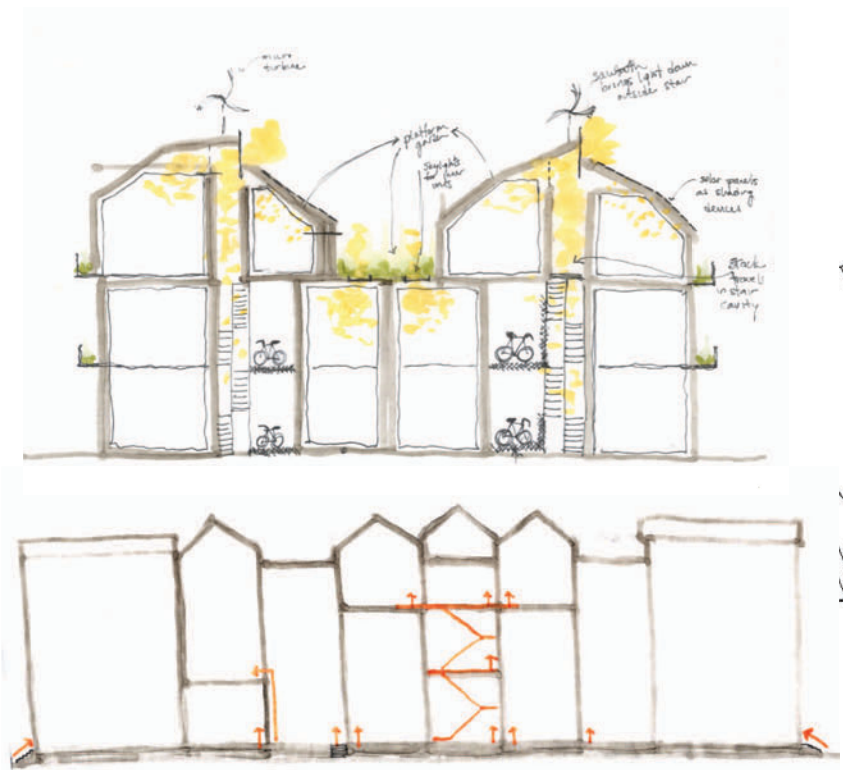
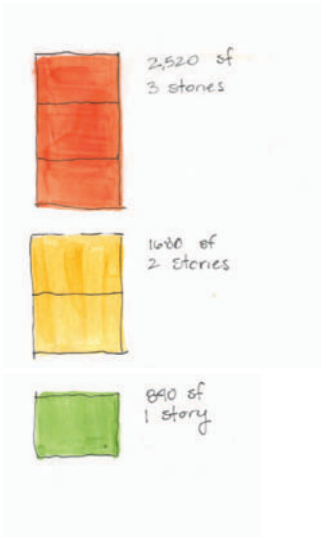


DESIGN INTENTIONS

- Hold a strong urban edge
- Respect and foster the environment and site resources: sun, water, and wind
- Create an engaging node to the downtown
- Provide diverse and convenient housing
- Educate through natural resources

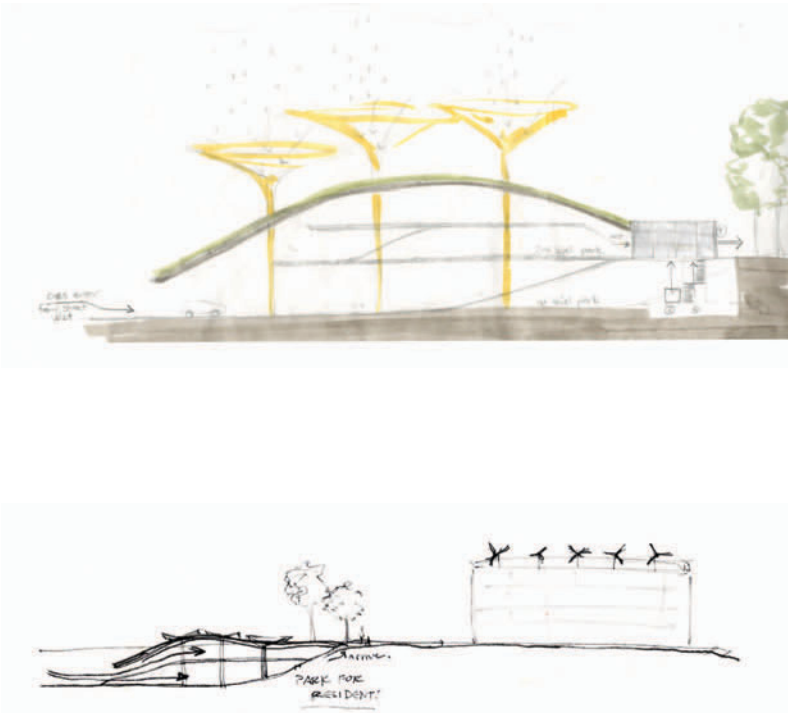
EAST SITE PROGRAM

- 2/3 mixed residential units at a minimum of 30 units/acre
- 1/3 retail and offices on the Adams street connector to the light rail
- Residential:
 - light on both sides
 - transparency between in and out
 - solar and wind energy
 - unit diversity
 - stack ventilation
 - bike and public transit focused
 - eyes on the street
 - inner courtyard oasis
- Retail
 - small boutique shops
 - close access amenities for residential
 - activated and supported by traffic from light rail
- Offices
 - incubator offices

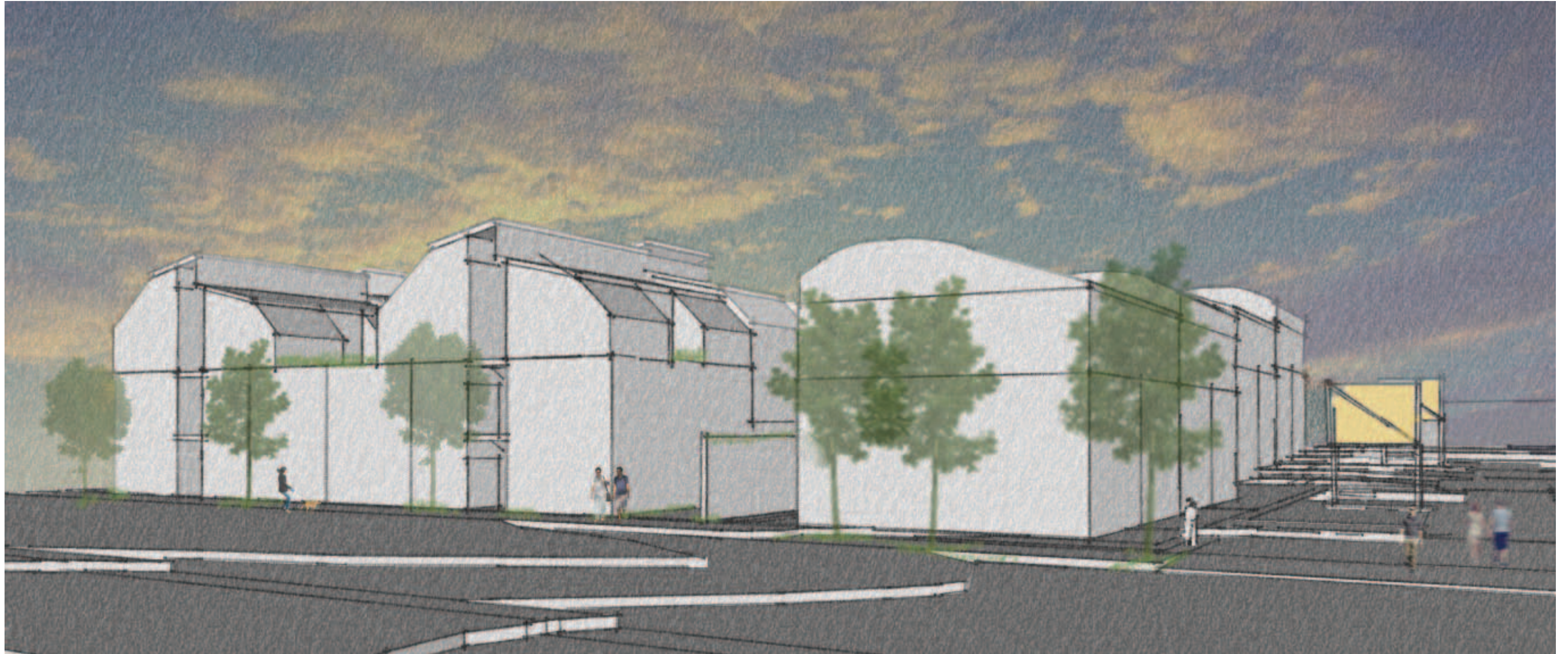


WEST RIVERSIDE SITE PROGRAM

- Destination node at the terminus of Adams Street
- Community gardens
- Native plant ecosystem boardwalk
- Water sculpture park
- Underground parking garage for residential with green roof blending into
- natural topography
- Education of water catchment systems-- sustainable water use and reuse
- Education on sustainable living through food geography education
- Education on native plants, ecosystems, and wetlands
- Education on sustainable transportation
- Elevate human footprint



EAST SITE PERSPECTIVE



South Downtown Plan: Mixed-Use (Retail, Office, Parking)

School: University of Oregon
Student: Jeff Toreson
Instructor: Nancy Cheng

What:

"A design proposal for the site adjacent to the future TRI-met Rail Stop and existing Main street in the South Downtown Milwaukie area."

Why:

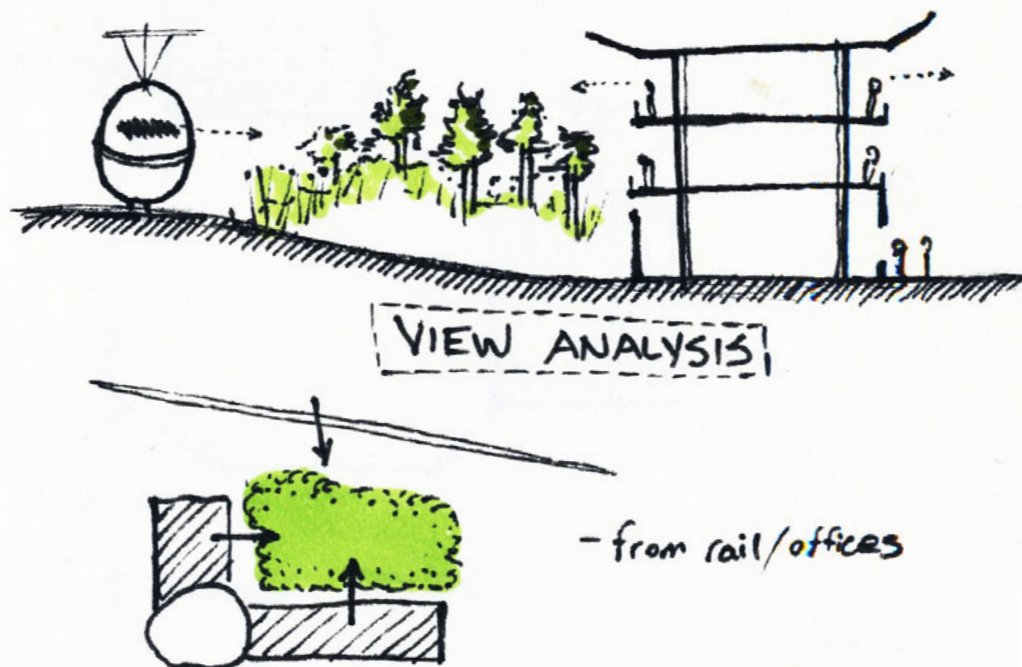
- + Attractive building at South Downtown edge
- + Revitalize area with **shops**, public spaces
- + Provide more **office spaces**
- + Tall building allowing for **river views**
- + Showcase **green design** at Light-Rail entry point

Project Goals:

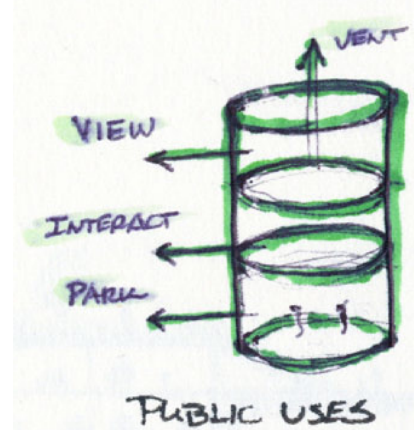
- Sustainable structure
- Busy corner zone
- Urban faces
- Interactive core spaces

Design Concepts:

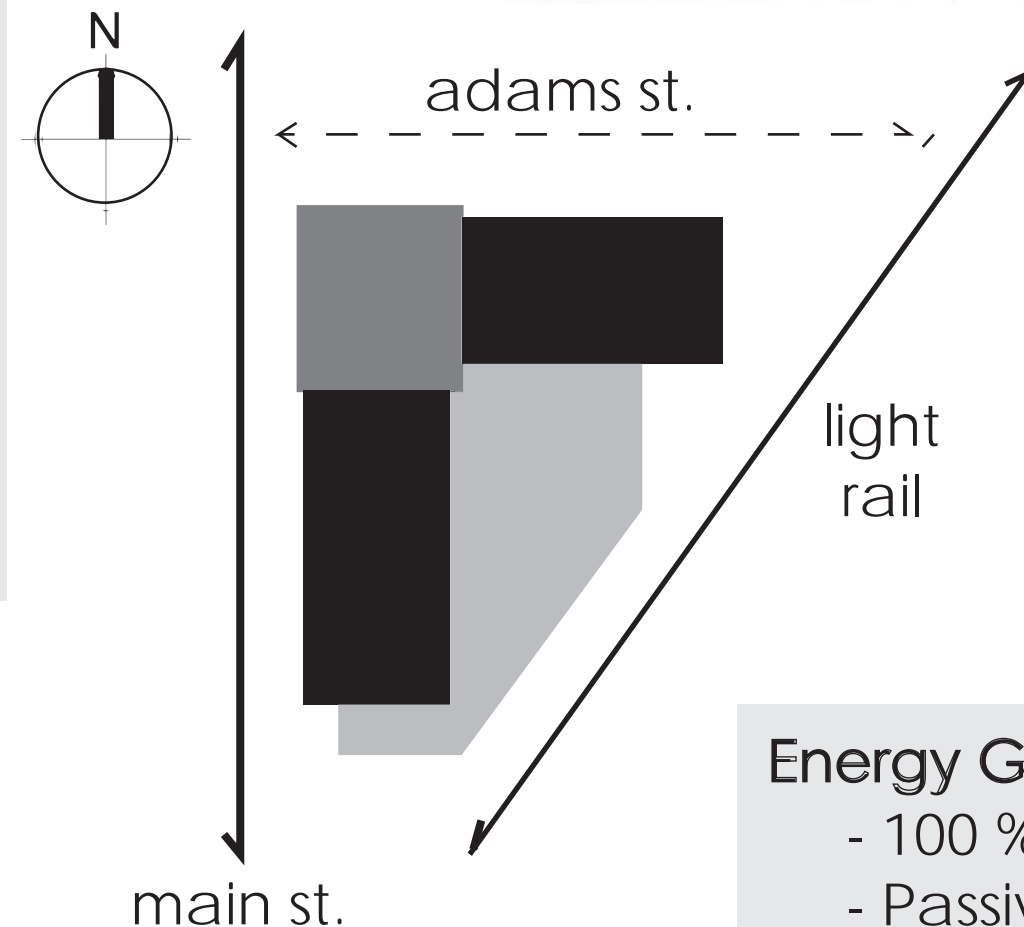
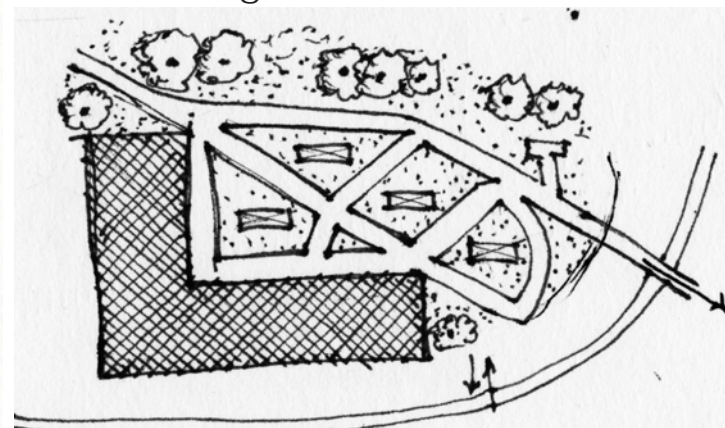
rail entry



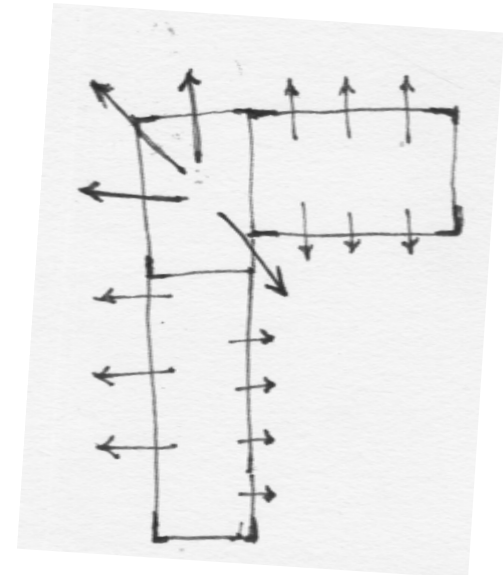
core



interactive green roof



views:



Energy Goals:

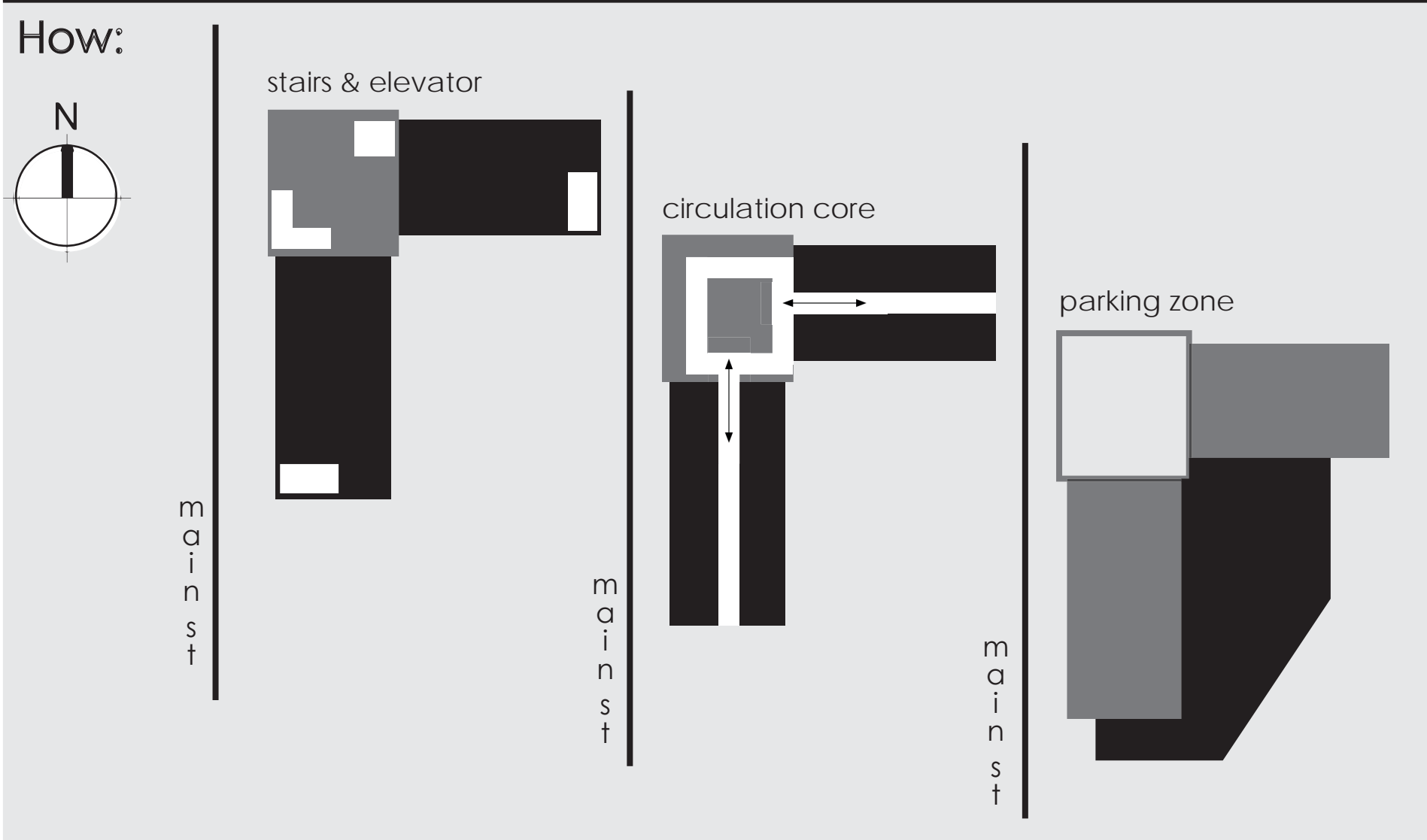
- 100 % Natural Daylighting
- Passive Cooling
- Stack Ventilation

Environmental Features:

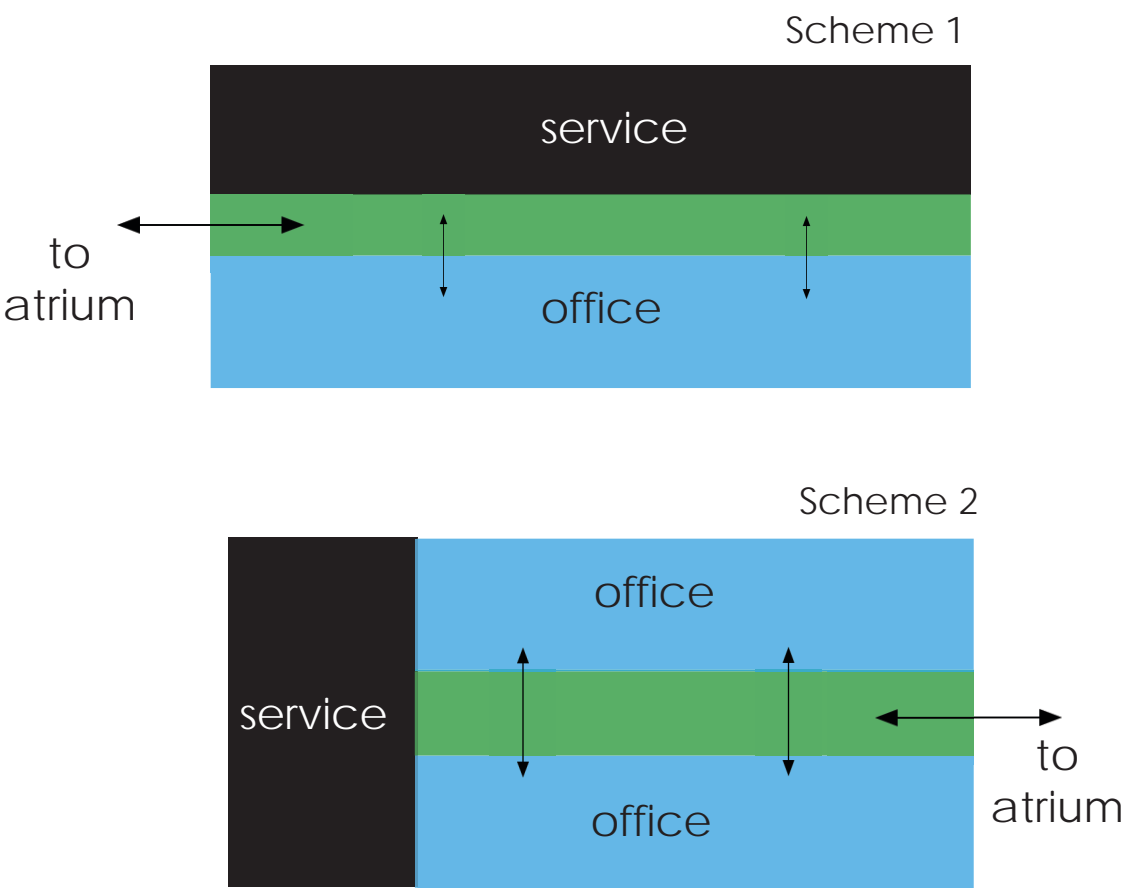
- + Green Roofs
- + Living & Fixed Shading
- + Operable Windows
- + Rainwater Collection

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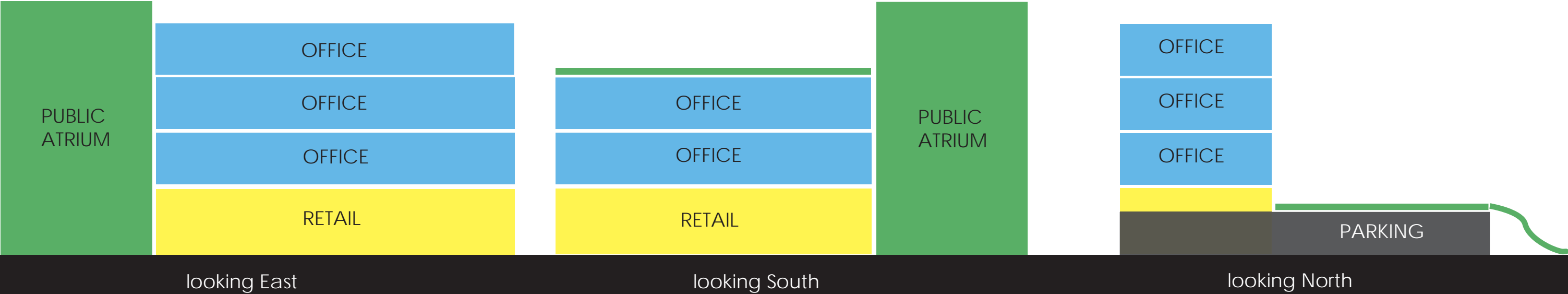
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Office Space:



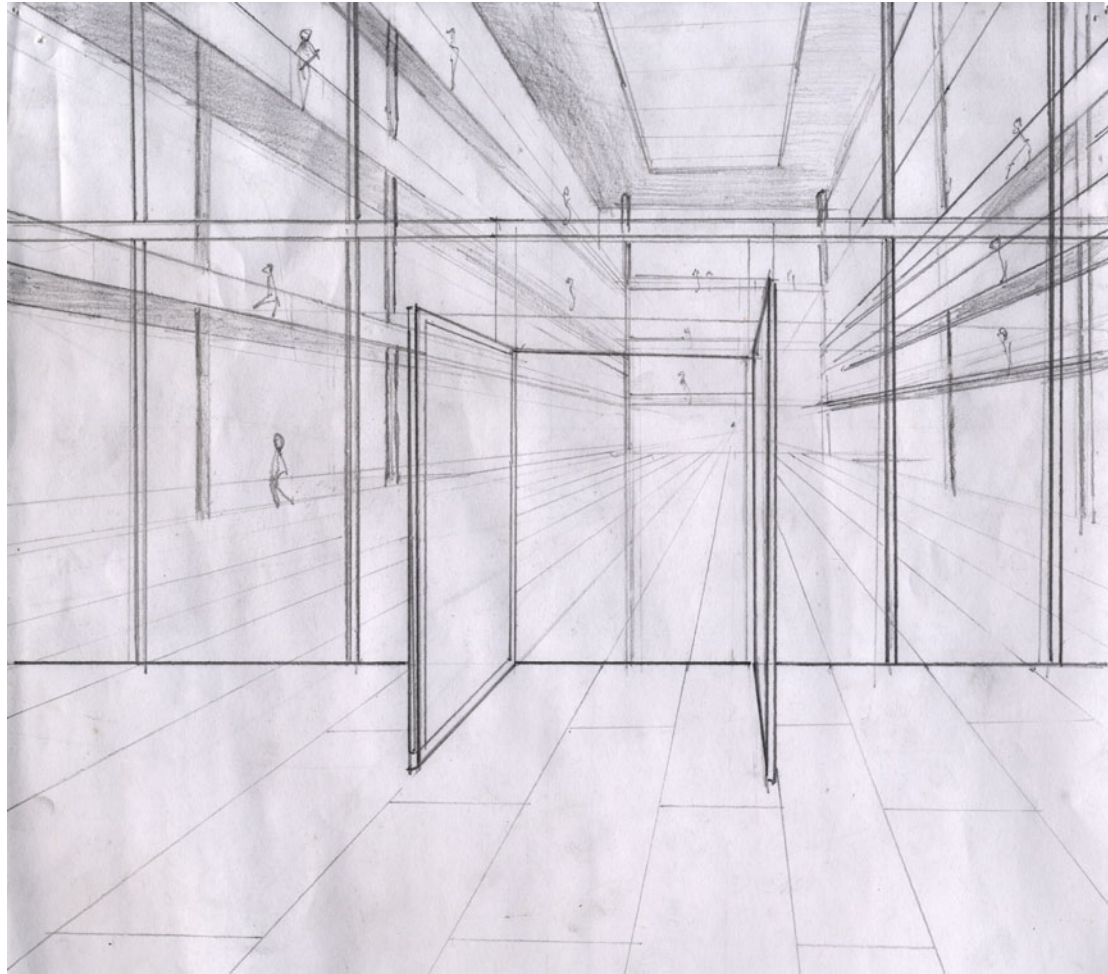
Sectional Views: Mixed-Use



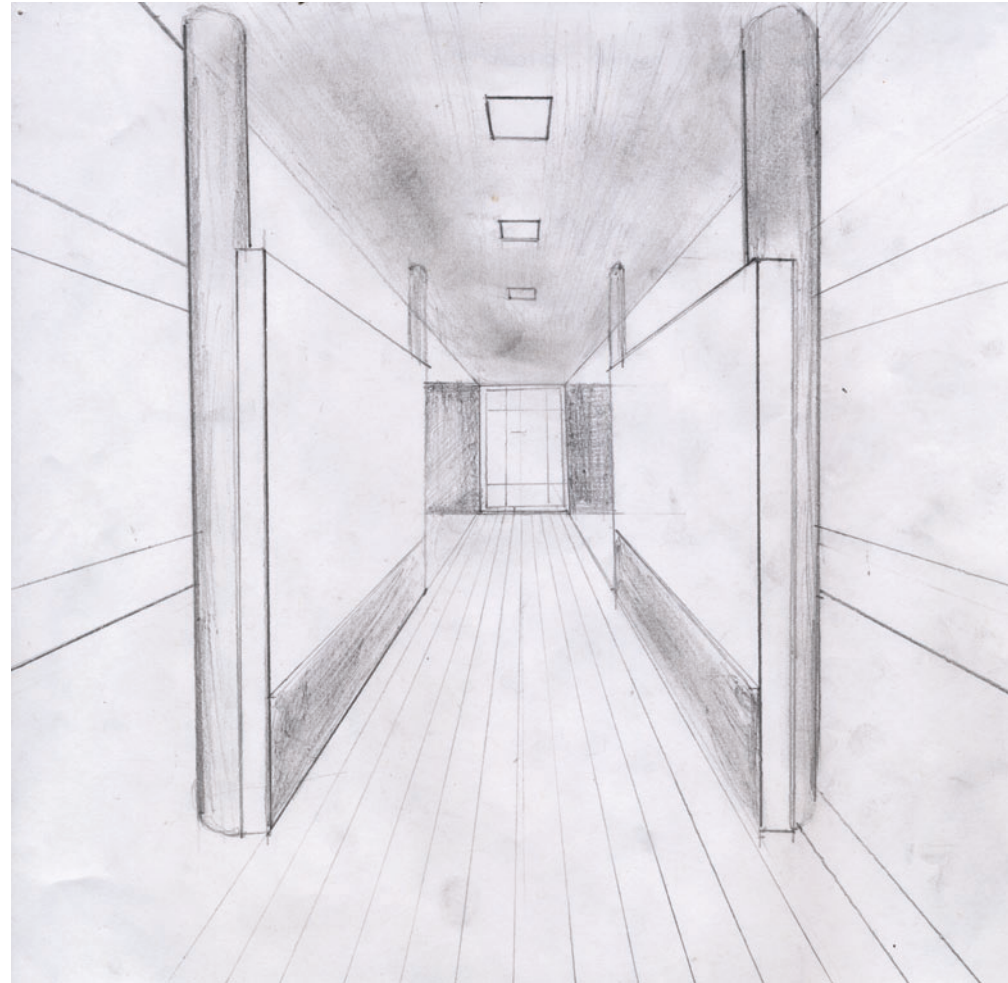
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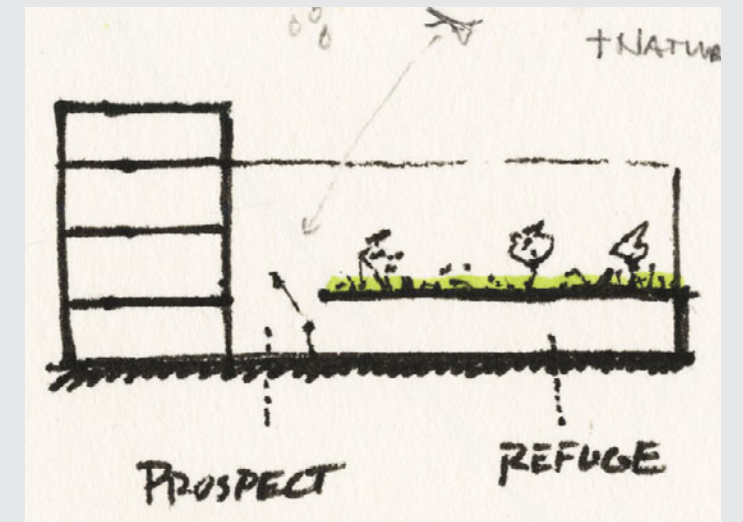
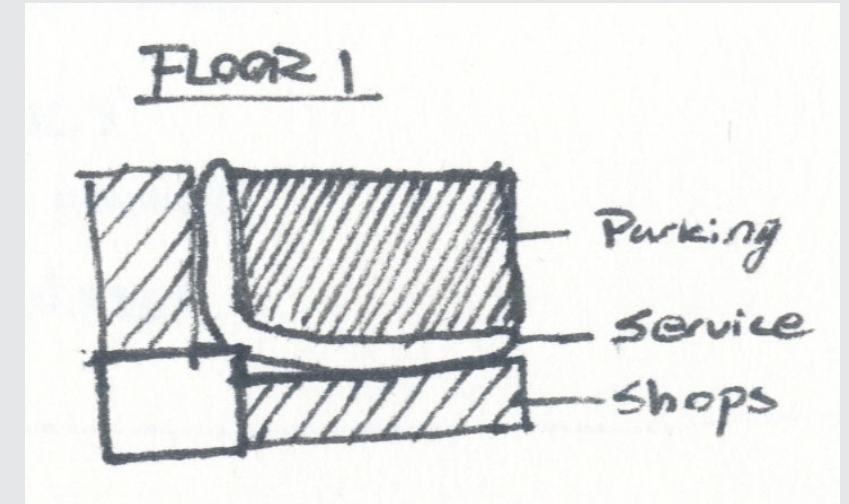
Perspective Vignette's:



atrium entry

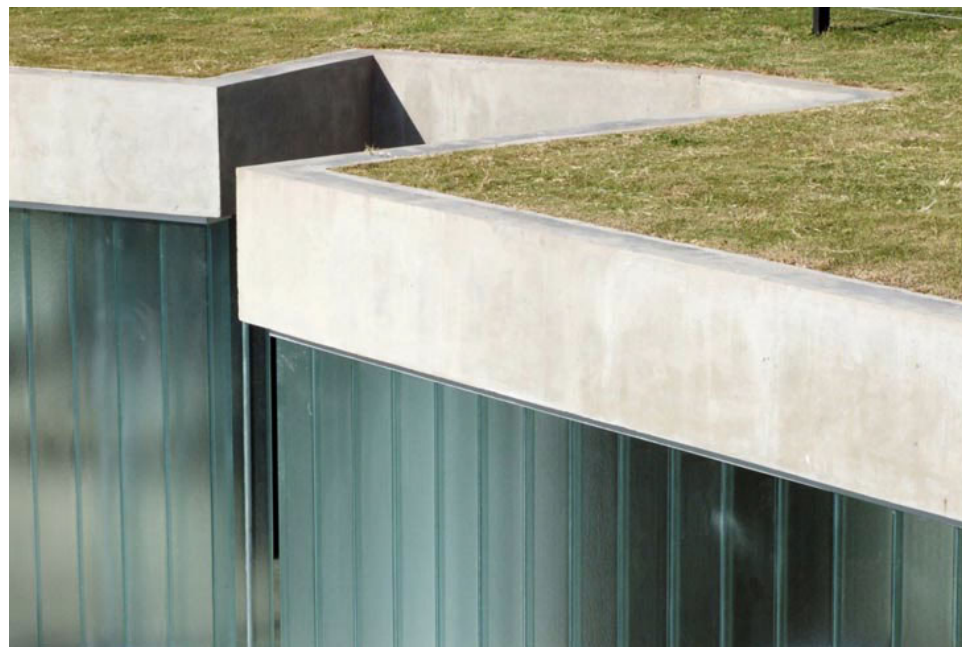


double-loaded corridor

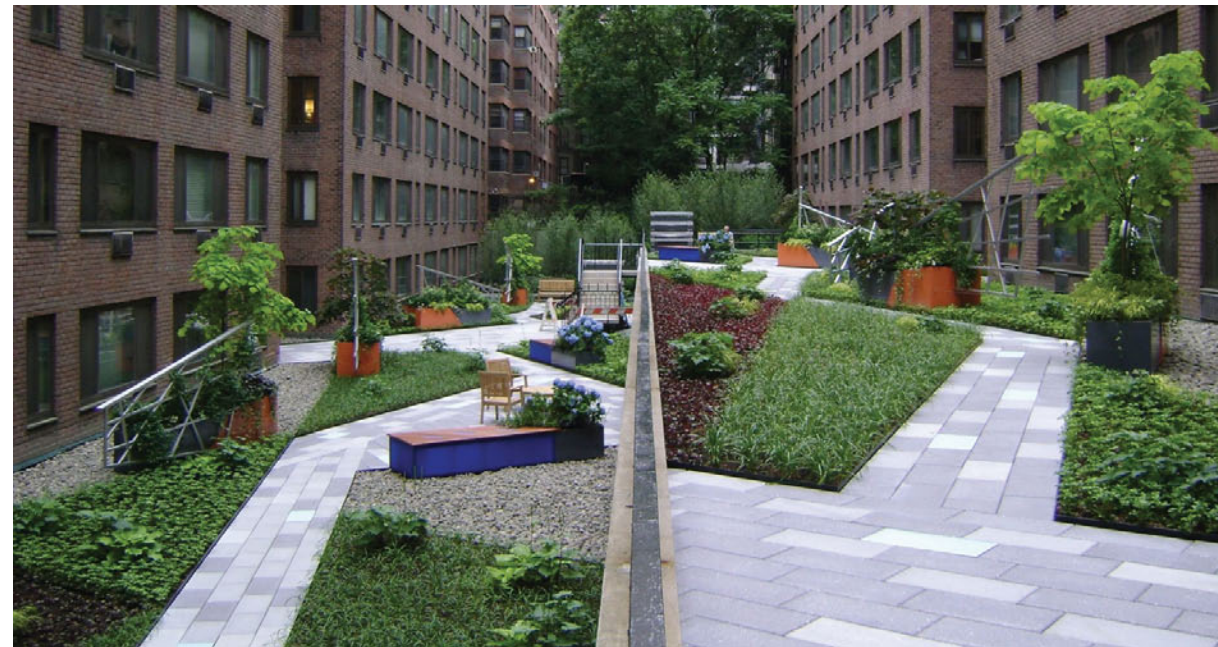


Precedent Images:

"A lively green roof to showcase sustainability Milwaukie, OR"



<http://assets.inhabitat.com>



<http://planet.vectorworks.net>



<http://www.michiganmainstreetcenter.com>