URBAN TECTONIX

2016 Scan|Design Studio, University of Washington

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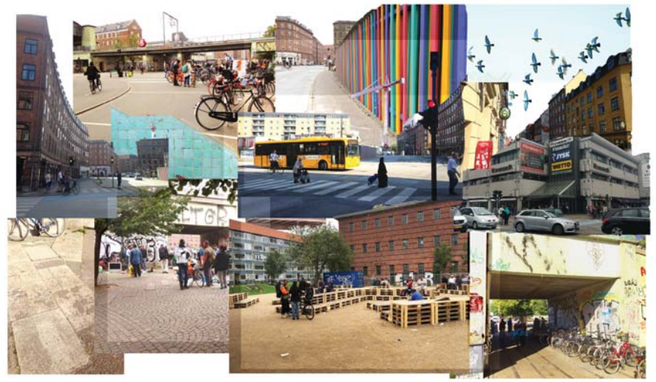
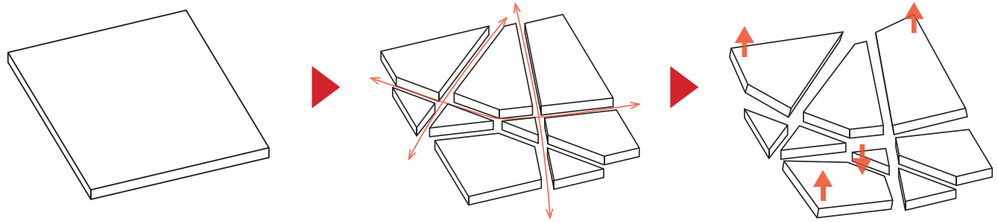
Nørrebro Experience



Nørrebro Context



With a new Metro station opening in 2019 and a rising influx of refugees, the Norrebro neighborhood must balance changing demographics and climate while increasing capacity as a transit hub. URBAN TECTONIX is the direct result of this collision of urban forces. Contrasting social, ecological, cultural, and movement patterns cause tension within our site. In order to release this tension, we utilize natural forces of tectonics to increase porosity of public space and connect the layers of this diverse and dynamic site. Cracks become pathways and drainage. Subduction (lowering) fosters water retention/detention and defines space while offering nature a chance to thrive. Raising allows 40,000 bikes to flow through the site unimpeded and increases access to transit. URBAN TECTONIX provides Norrebro with a new center that better reflects the diversity and local character that makes this neighborhood unique.

Goals

PRIORITIZE SOFT MODES OF TRANSIT

- separate pedestrians and bikes from cars and buses
- no through automobile traffic on Nørrebrogade
- provide multiple routes through and around site for bikes and pedestrians
- consider future of transit and automobiles in design

FLEXIBLE & ADAPTIVE DESIGN

- design spaces that can be adapted by future demographics
- design for climate change and ecological growth
- design for destruction, chaos and the unpredictable
- provide space for seasonal markets and food trucks

DESIGN FOR STORMWATER MANAGEMENT

- integrate Copenhagen Cloudburst Plan into design
- create opportunities for retention in low spots
- treat and reuse the stormwater captured on site
- water features must have social or ecological functions

REVEAL THE LAYERS OF NØRREBRO

- create functional pastoral landscape to reveal ecological history of site
- to design a democratic public space for all
- design that incorporates immigrant history and also for the future
- connect different modes of transport by pushing planes up and down in visual and intuitive ways

ECOLOGICAL · SOCIAL · CULTURAL · PHYSICAL

Program

- green gateway
- sunken court
- skate park
- public promenade
- community kitchen
- market bazaar
- grocery store
- bike bridge
- bike parking
- bike repair shop
- transit tunnel
- maker space
- amphitheater
- local cafe
- hotel
- bar under the bridge
- retention pasture
- shared street

Site Analysis

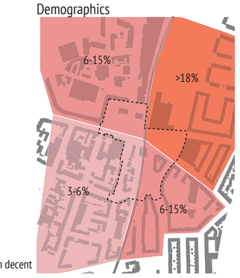
Mobility

Private Green Space
Public Green Space
Public Open Space

Open Space Network

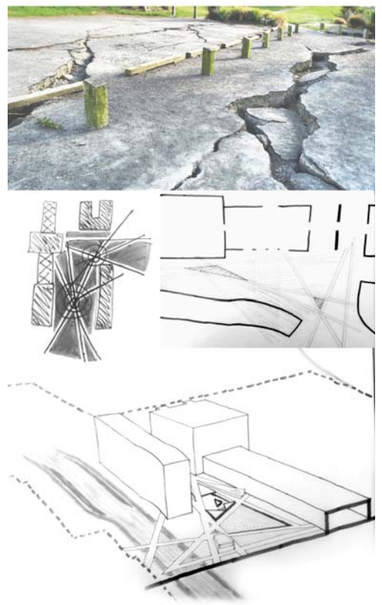
Stormwater

Demographics



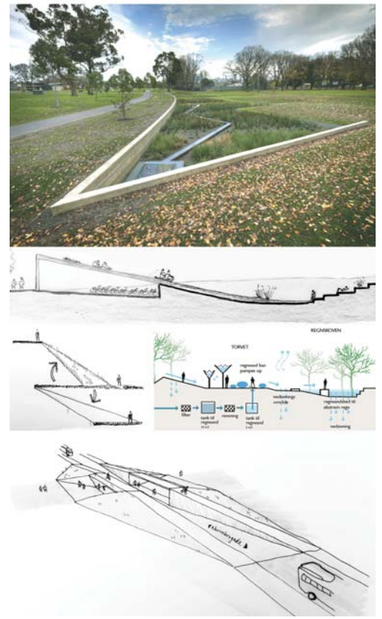
Percentage non-Danish decent

Cracking



Raising

Lowering



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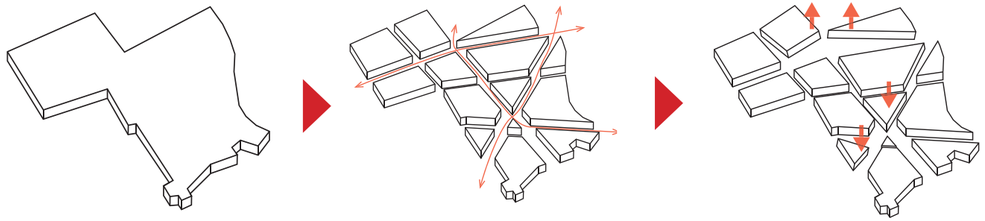
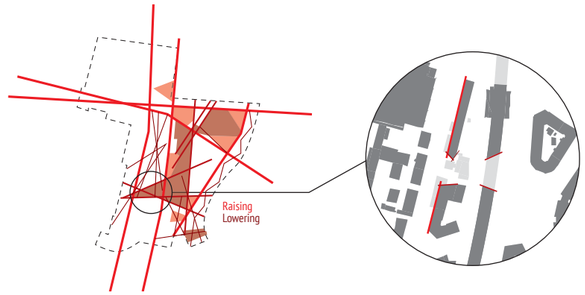
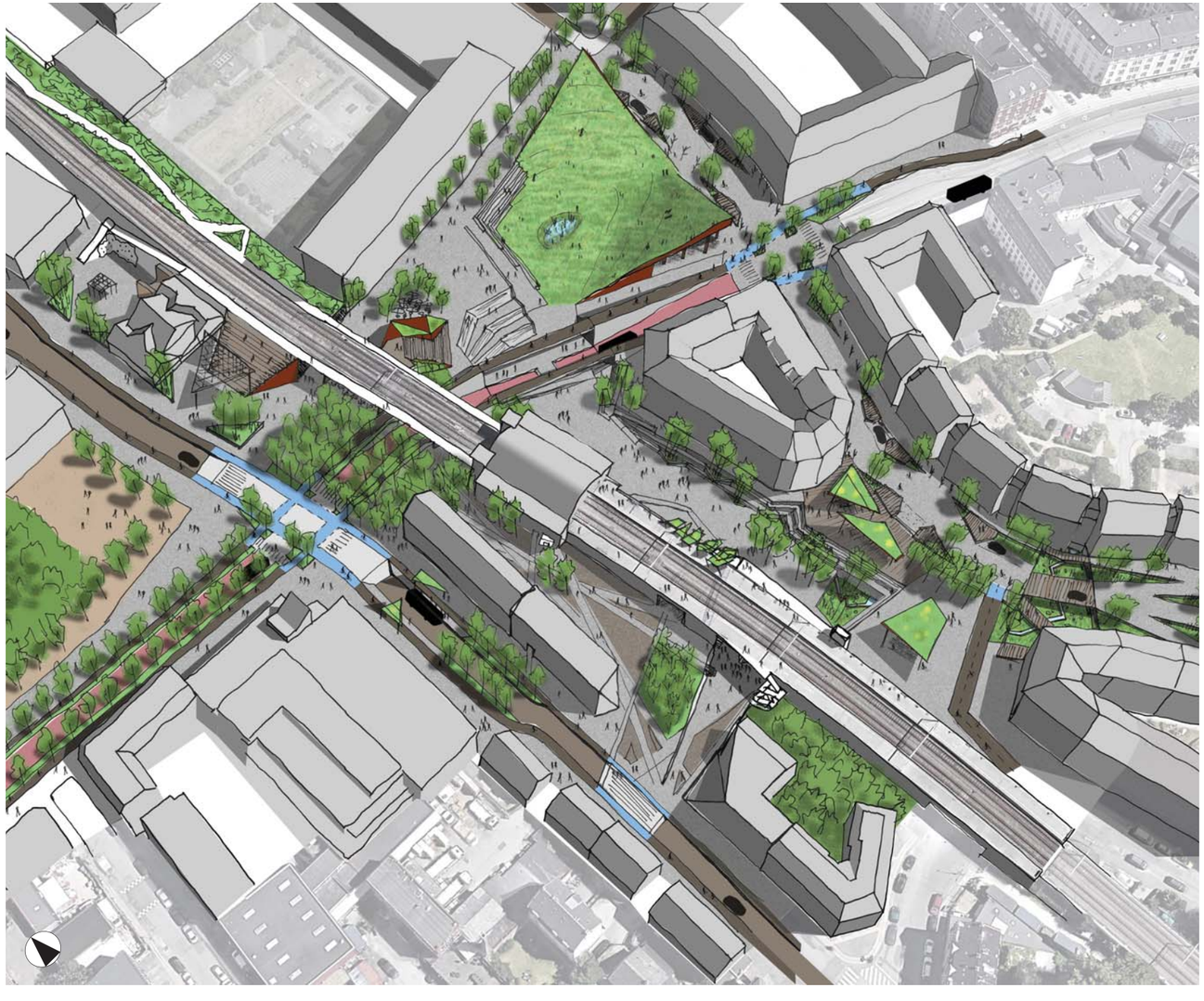


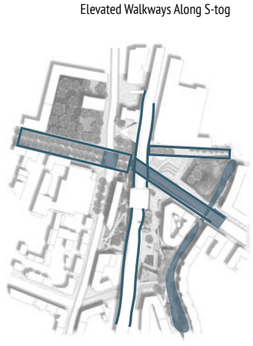


Before

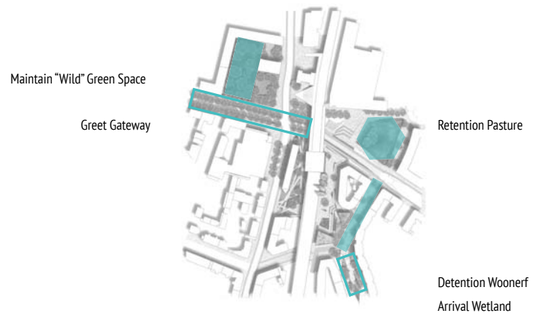
After



Prioritize Soft Transit



Design for Stormwater Management and Urban Nature



Flexible and Adaptive Design

Reveal the Layers of Norrebro

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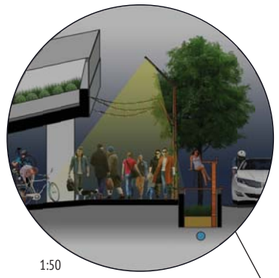
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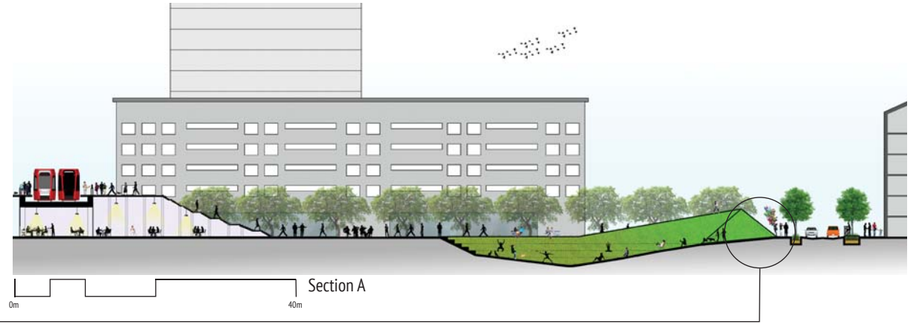
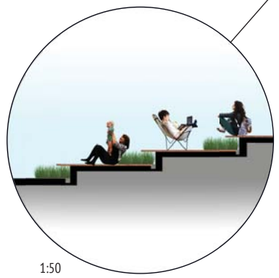


Section A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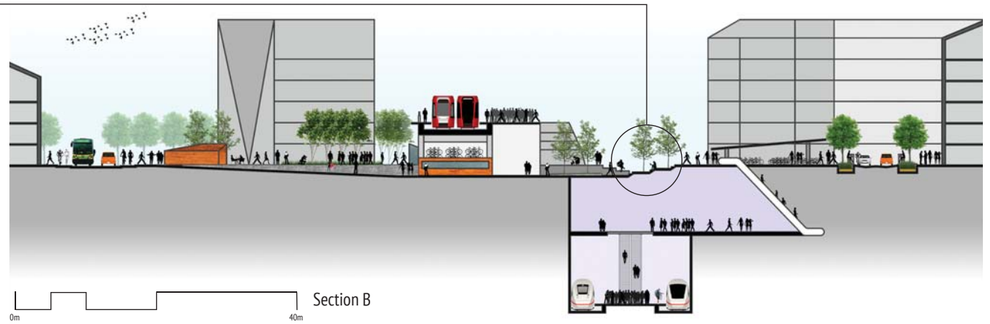
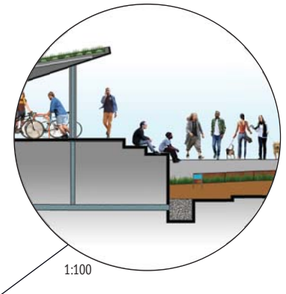


Section B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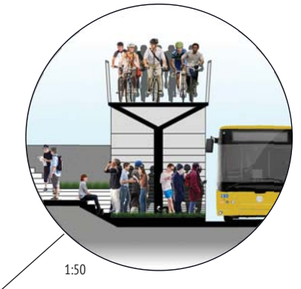
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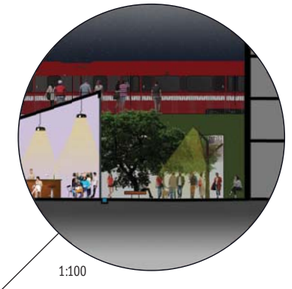
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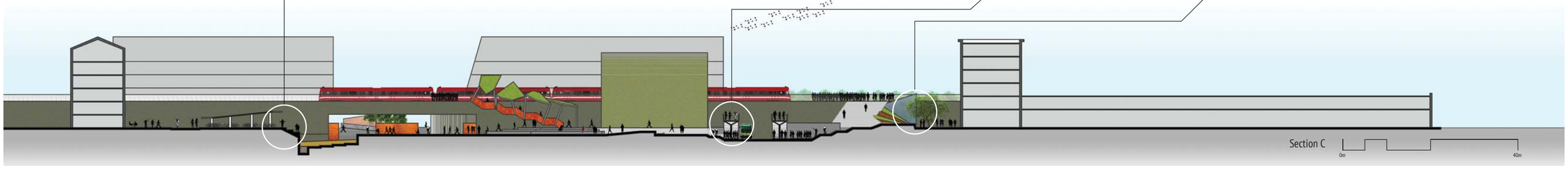

Section C

Experience Nørrebro

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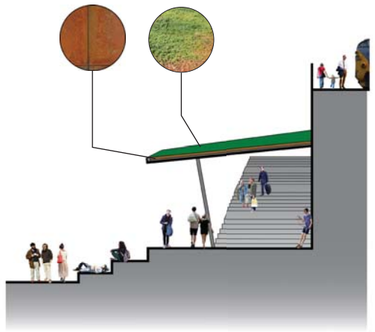
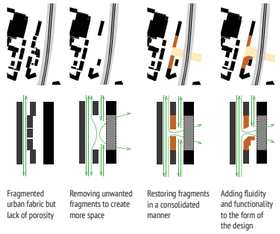
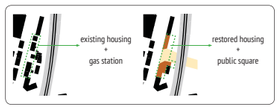
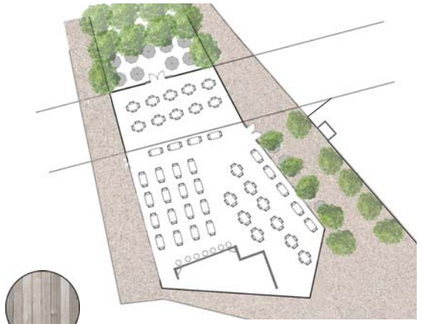
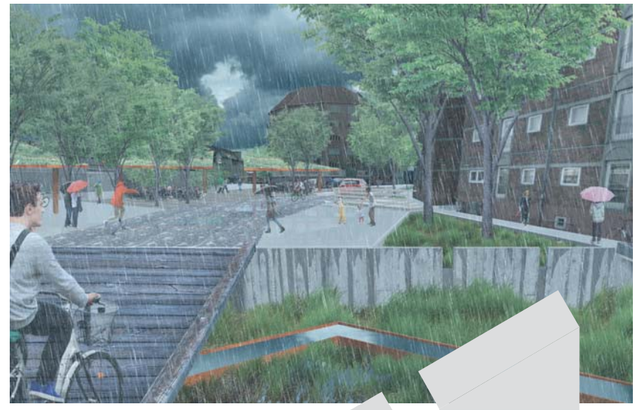
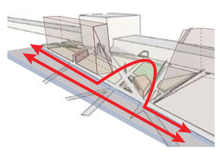




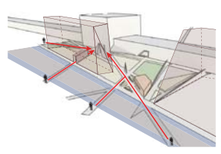




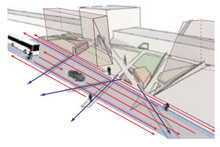




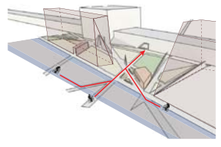
bringing the street into public square



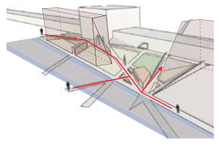
commuters rushing to the S-tog station



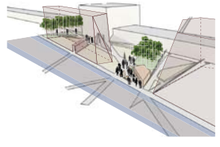
multi-modal street interjected with pedestrian crosswalks



commuters rushing to park their bikes in the new covered parking area



casually strolling along the public square to the community market



gathering in the public square on a relaxing day