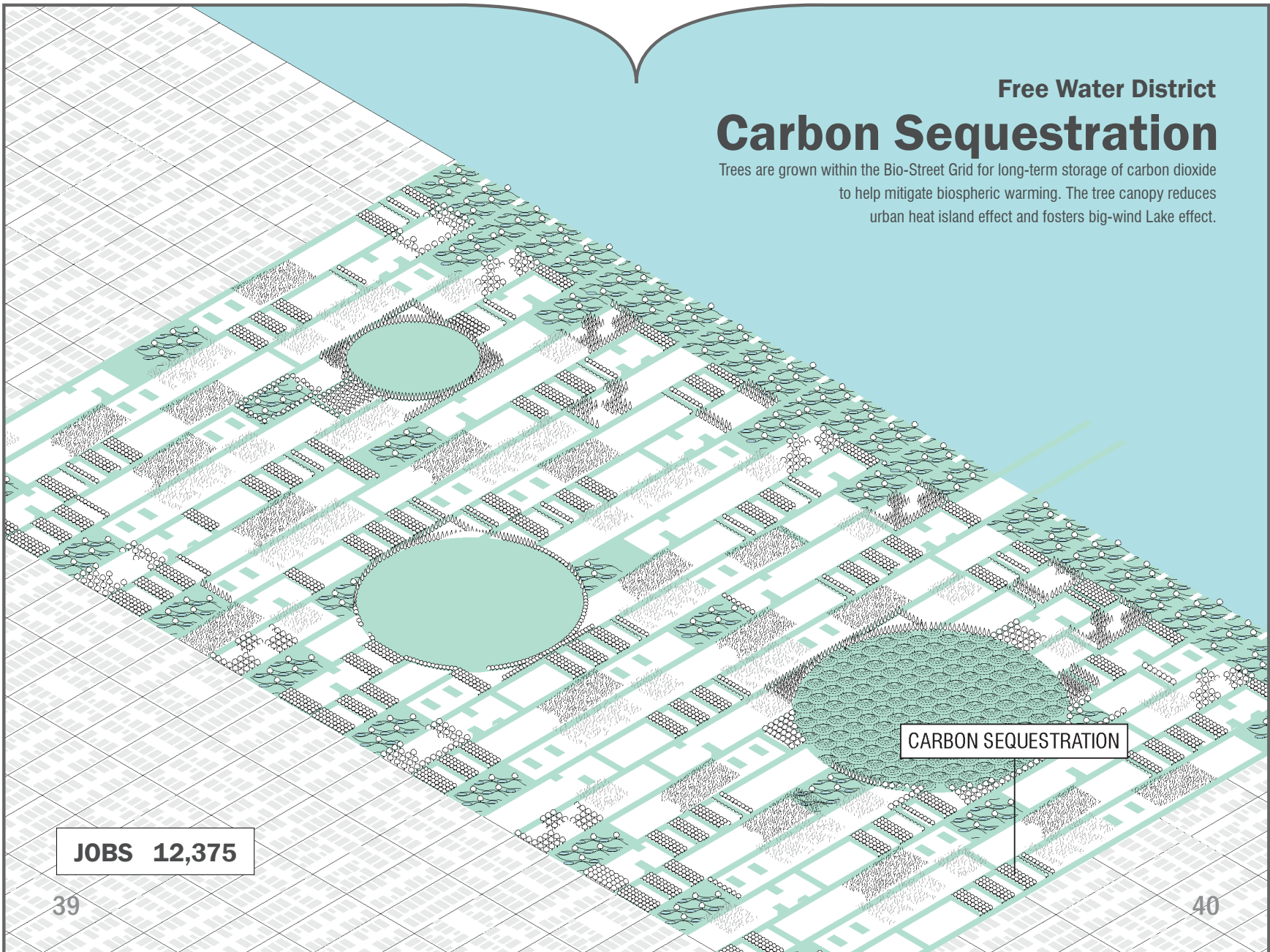
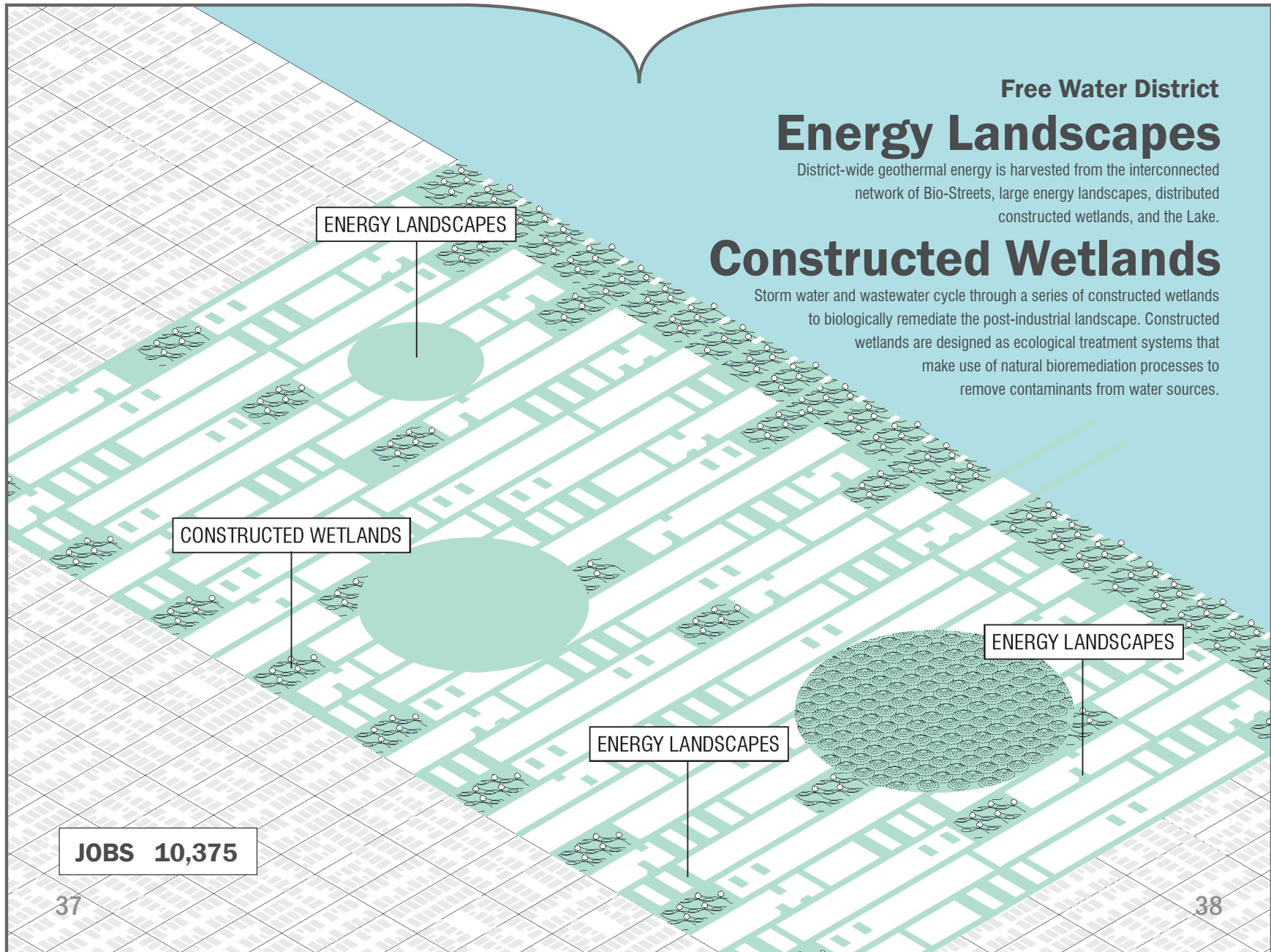


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**Bio-Streets**

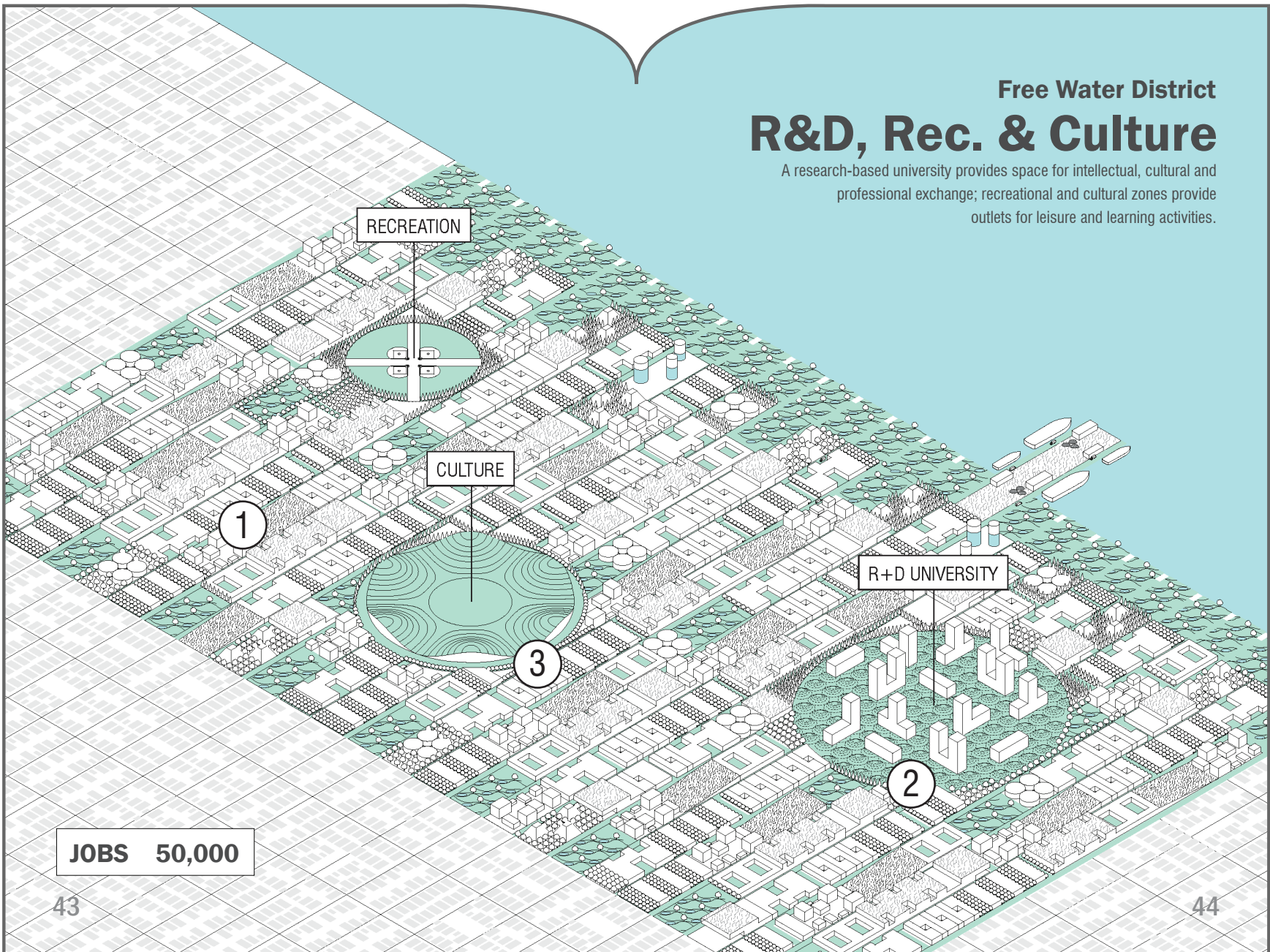
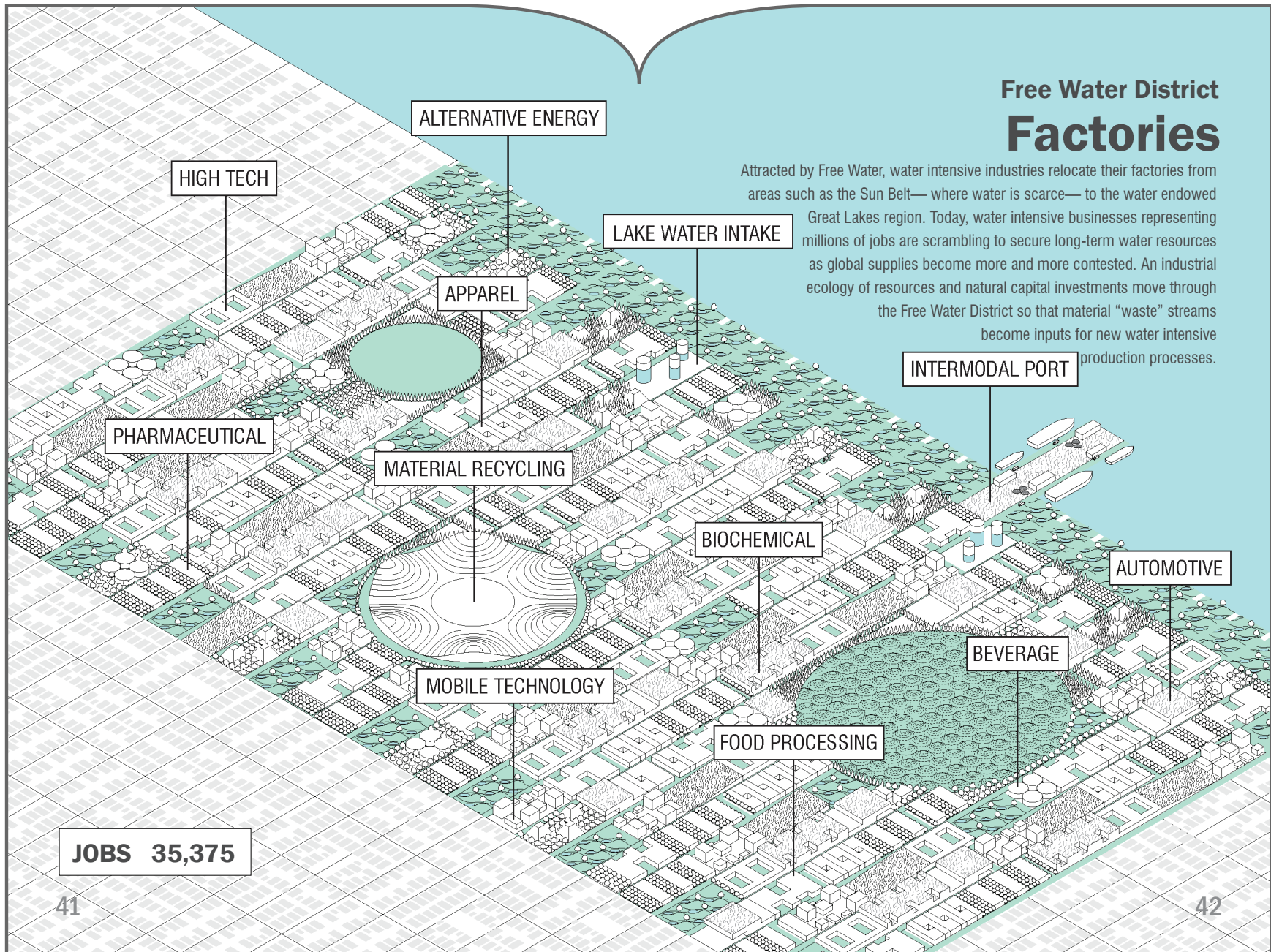
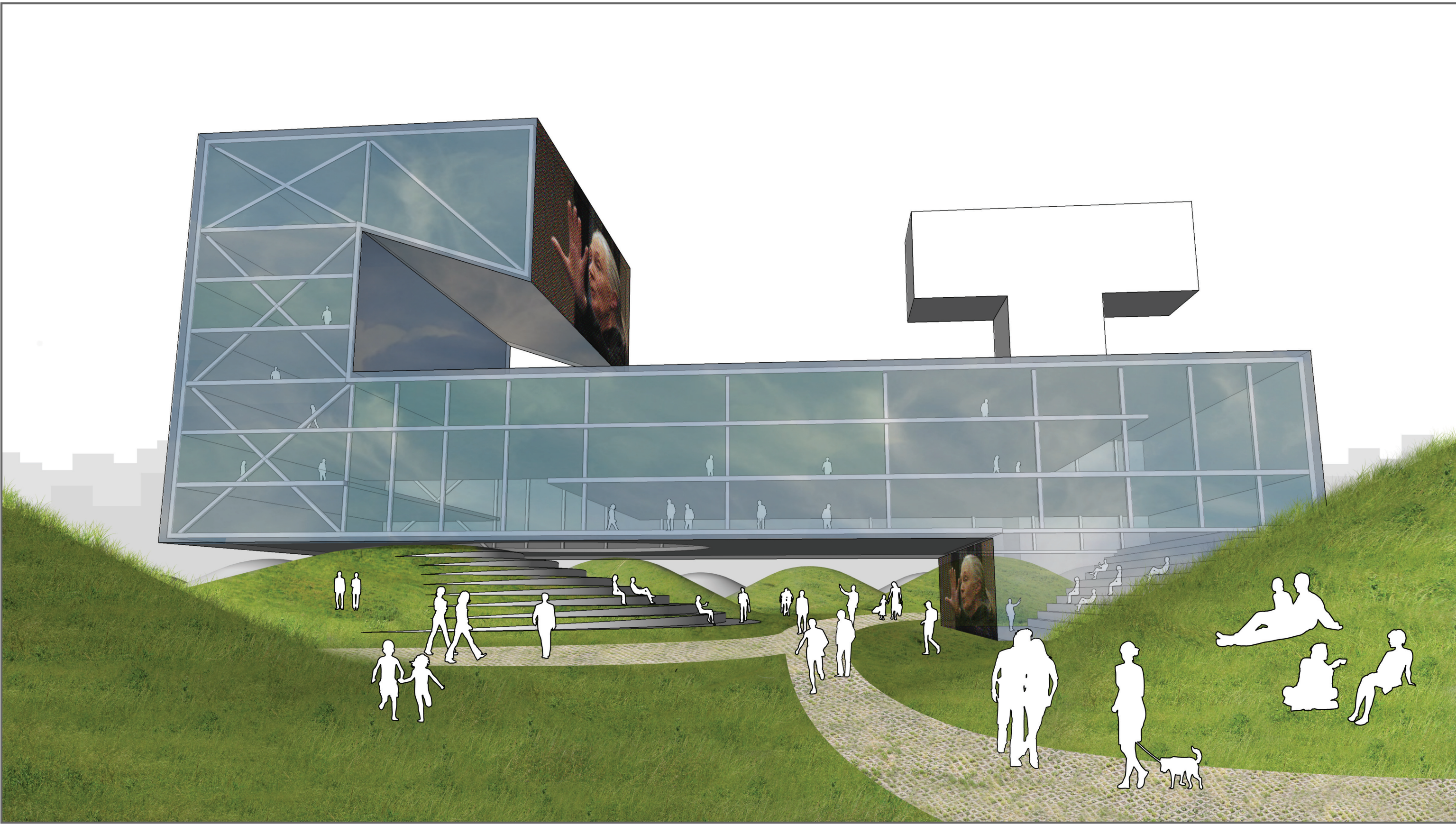
Each building is responsible for pre-processing "waste" water in an in-house bio-machine. Hydroponic bio-machines use aquatic ecological processes to treat industrial wastewater. These processes are carried out in reactor tanks and eco-cells in enclosed greenhouse-type conditions. After initial bio-machine treatment, each building ejects its wastewater into constructed (indigenous landscape) wetlands that use low energy processes to biologically filter wastewater and storm water naturally. Finally, Bio-Streets polish and transport wastewater and storm water back to the Lake.



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**R&D University**

The mission of the Research and Development University is to advance Great Lakes Watershed ecological and cultural knowledge, and develop research that will best serve the Great Lakes region and the world in the 21st century. The University is a flexibly layered sandwich of integrated activities. The top layers accommodate university programs, circulation pathways, ecological and hydrological corridors and event space. The lower layers accommodate automobiles and ground-transport of goods and services.



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**Recycle Center**

Buckminster Fuller noted that "waste is merely a resource in the wrong place." Industries in the Free Water District will reuse each others' waste as by-product resources. The Recycle Center pictured below is a massive storage and staging center for up-cycling material leftovers into production process inputs. The roof of the center is a community-scaled play field.

