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Detroit: Reproductive City

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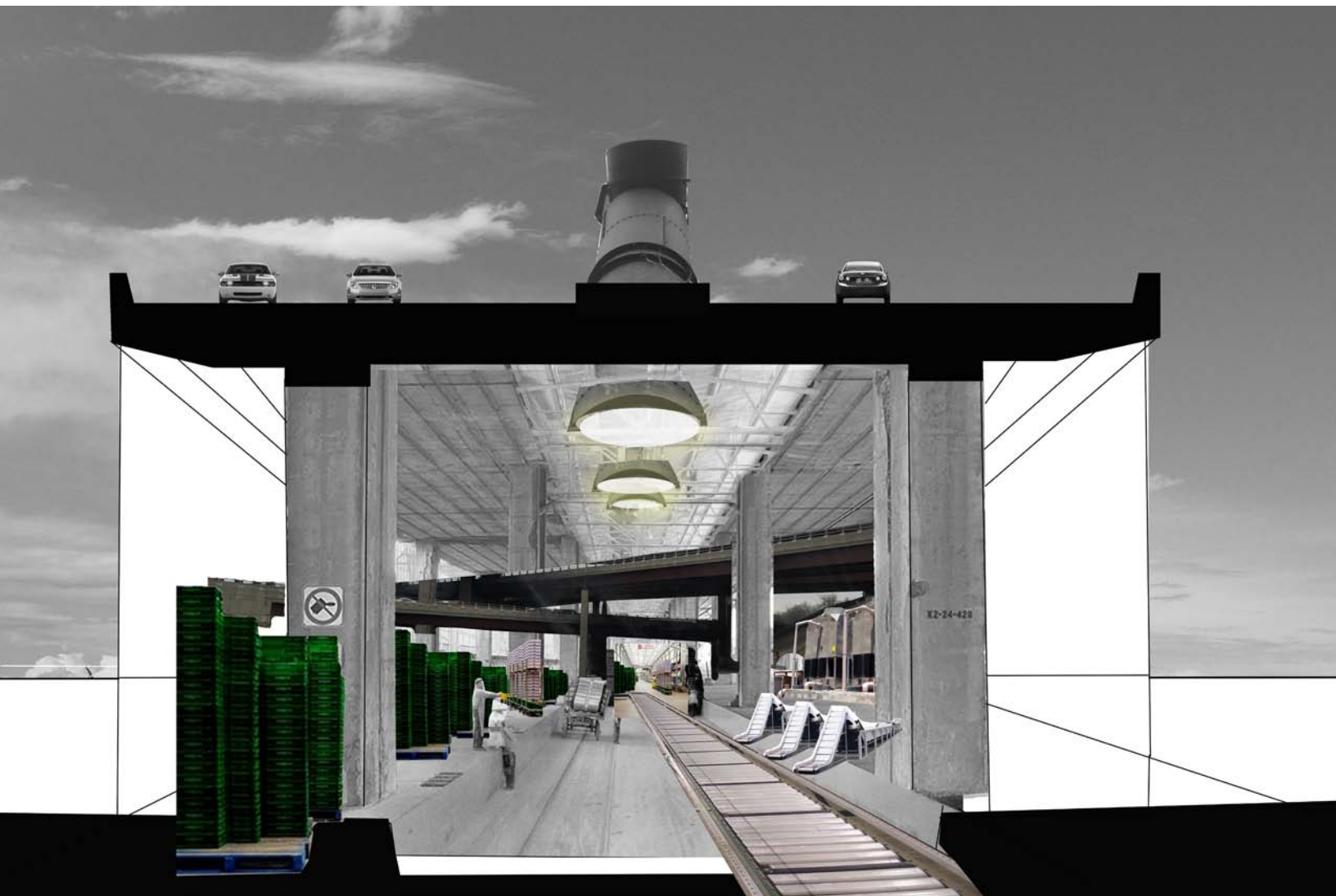
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DETROIT: REPRODUCTIVE CITY

A SYSTEMS MOTIVATED TEST, COUPLING INFRASTRUCTURES AND FOOD
PROCESSING FOR A PRODUCTIVE CITY CORE

MARIELLE VARGAS

ADVISORS: LENA VASSILEV, JON LOTT



I dedicate this book to all the fine people that made my B+ project possible.

Thank you.

And to Crisis City.



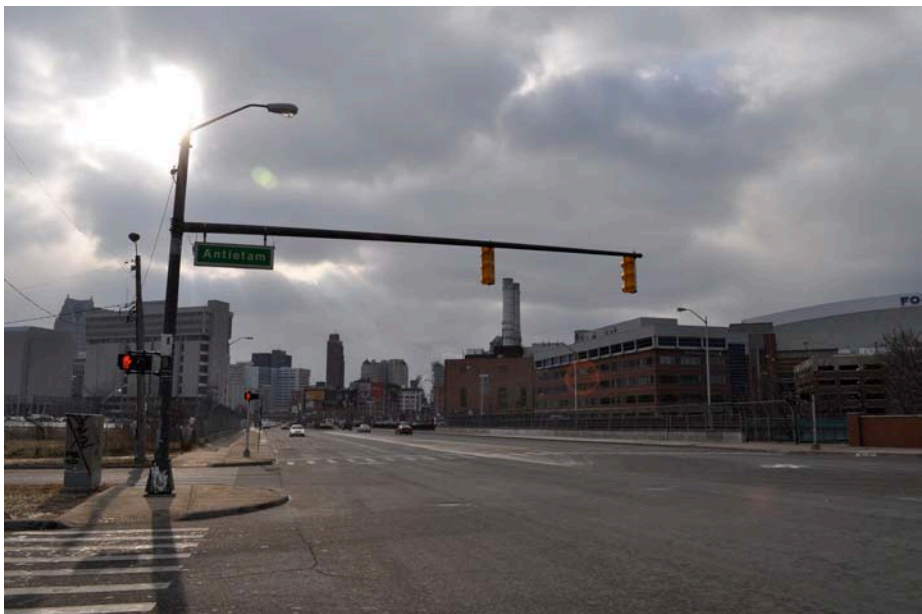
DETROIT : REPRODUCTIVE CITY

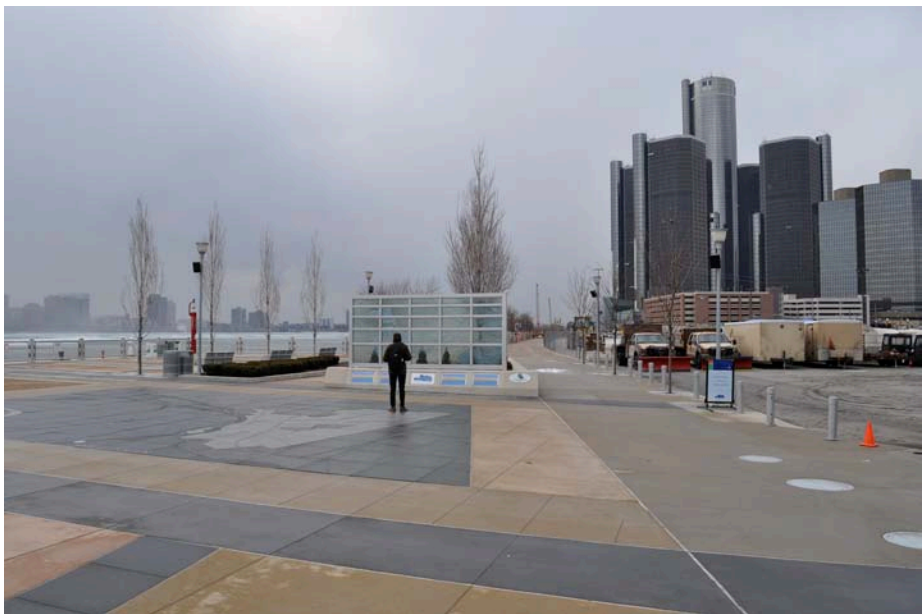
I contend that urban environments offer the greatest potential for efficient food production, process, and transport. By linking to systems existing in a city's ecology, such as water supply, transportation networks and waste management, all potentially wasted energy can instead, be converted to food. I propose a food production infrastructure for Detroit that will facilitate urban farming by providing water, and means of process and marketing, to residential communities. Using the spatial organization of the assembly line, the infrastructure will utilize the city's existing highway system and integrate an irrigation system, food processing, public spaces, and market spaces: ultimately bringing Detroit back to its full productive potential.

DETROIT, MICHIGAN

CURRENT SITE CONDITIONS







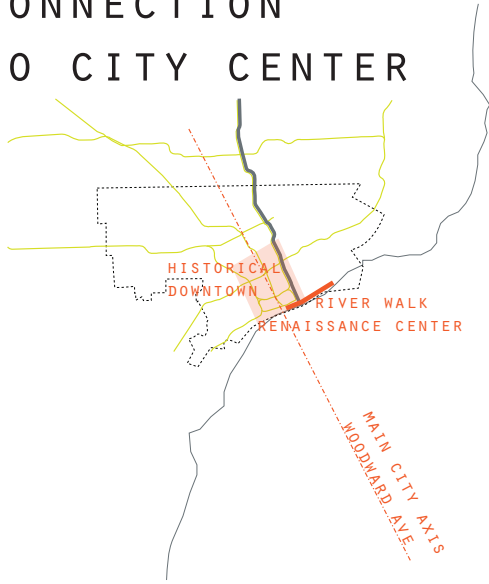


SITE

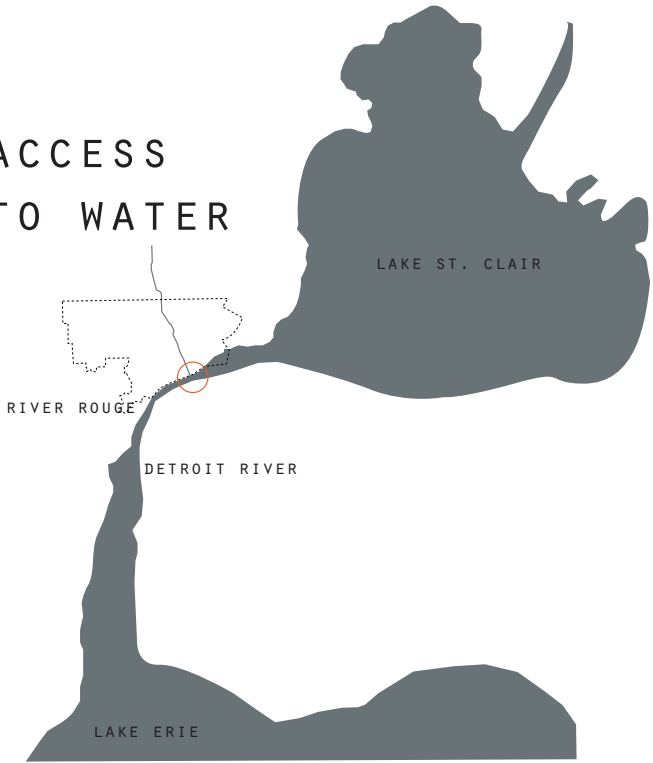
I-375, I-75



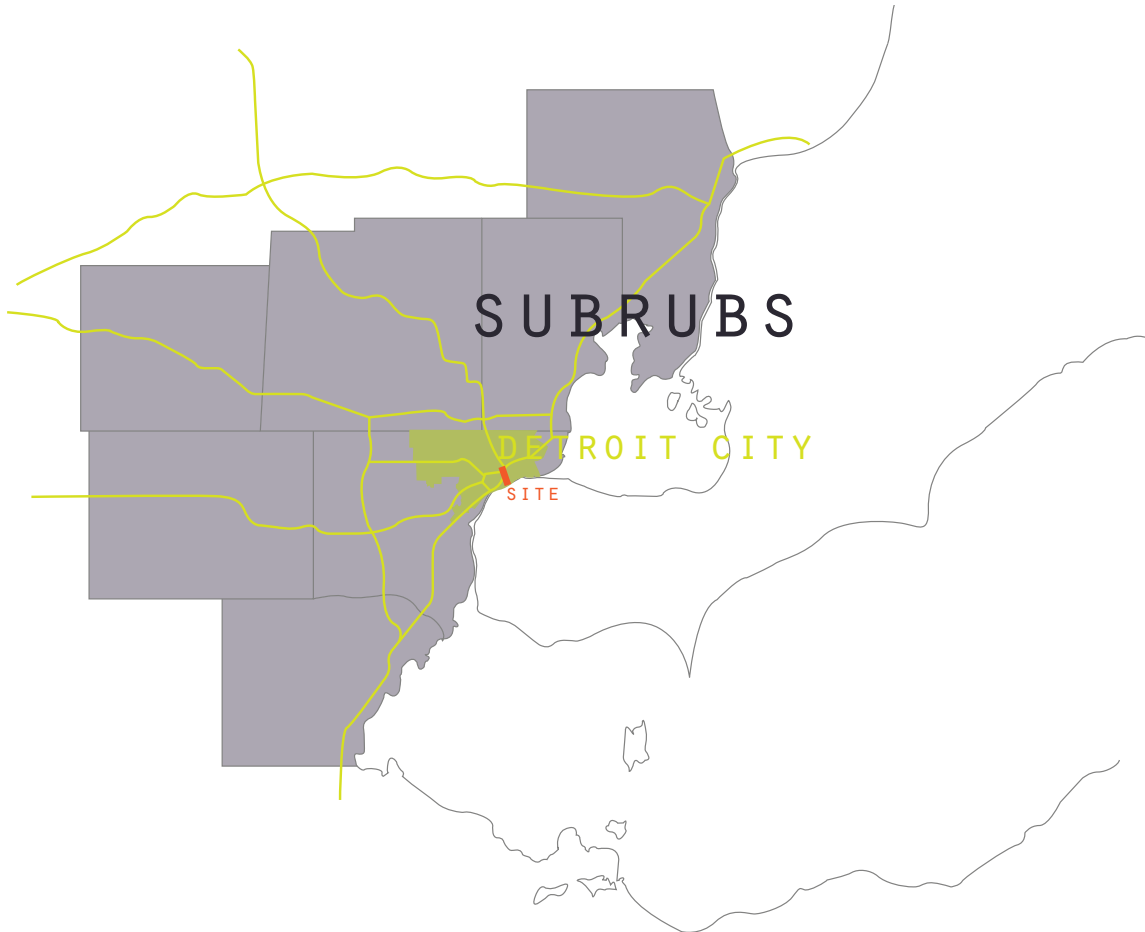
CONNECTION TO CITY CENTER



ACCESS TO WATER



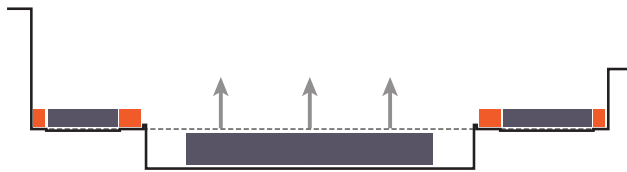
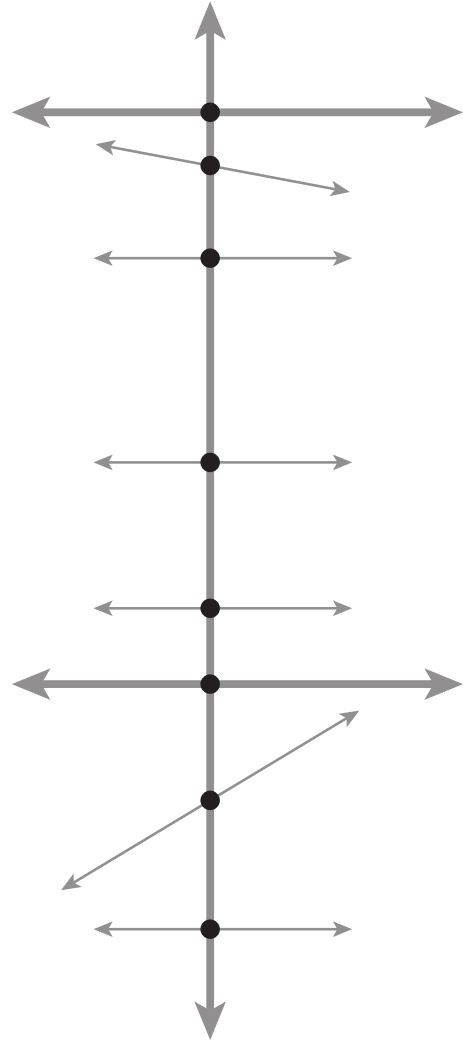
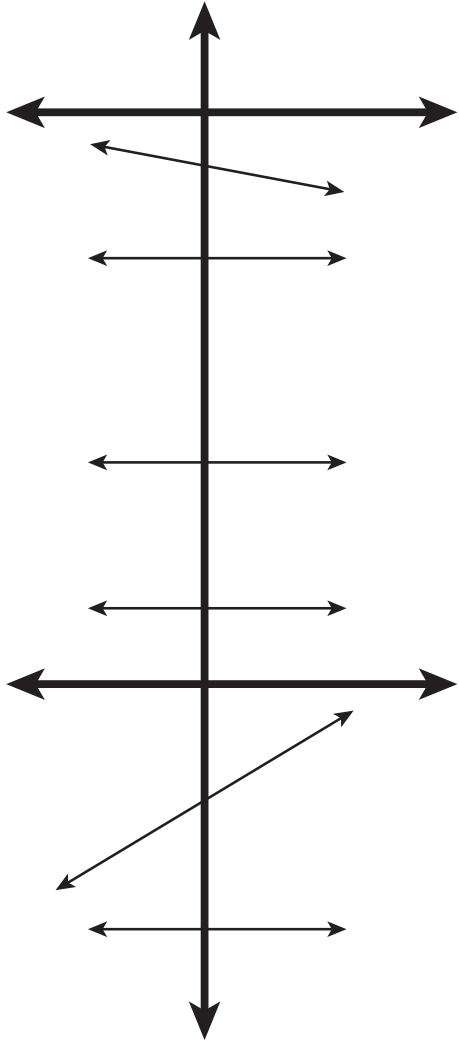
SUBRUBS



SITE STRATEGIES

LOCATING NODES, FOR PEDESTRIAN INPUT/OUTPUT OF FOOD

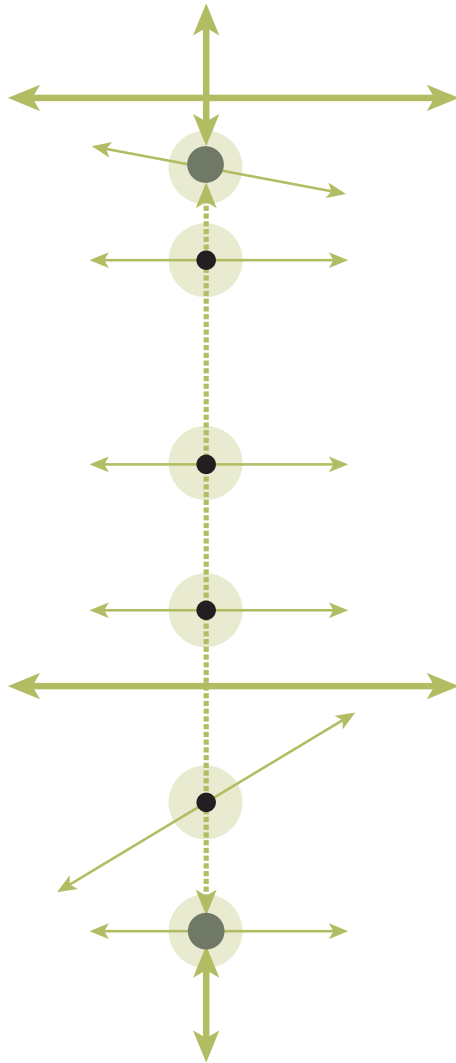
TRANSPORTATION GRID
MAJOR AND SECONDARY ROUTES



CURRENT CONDITION

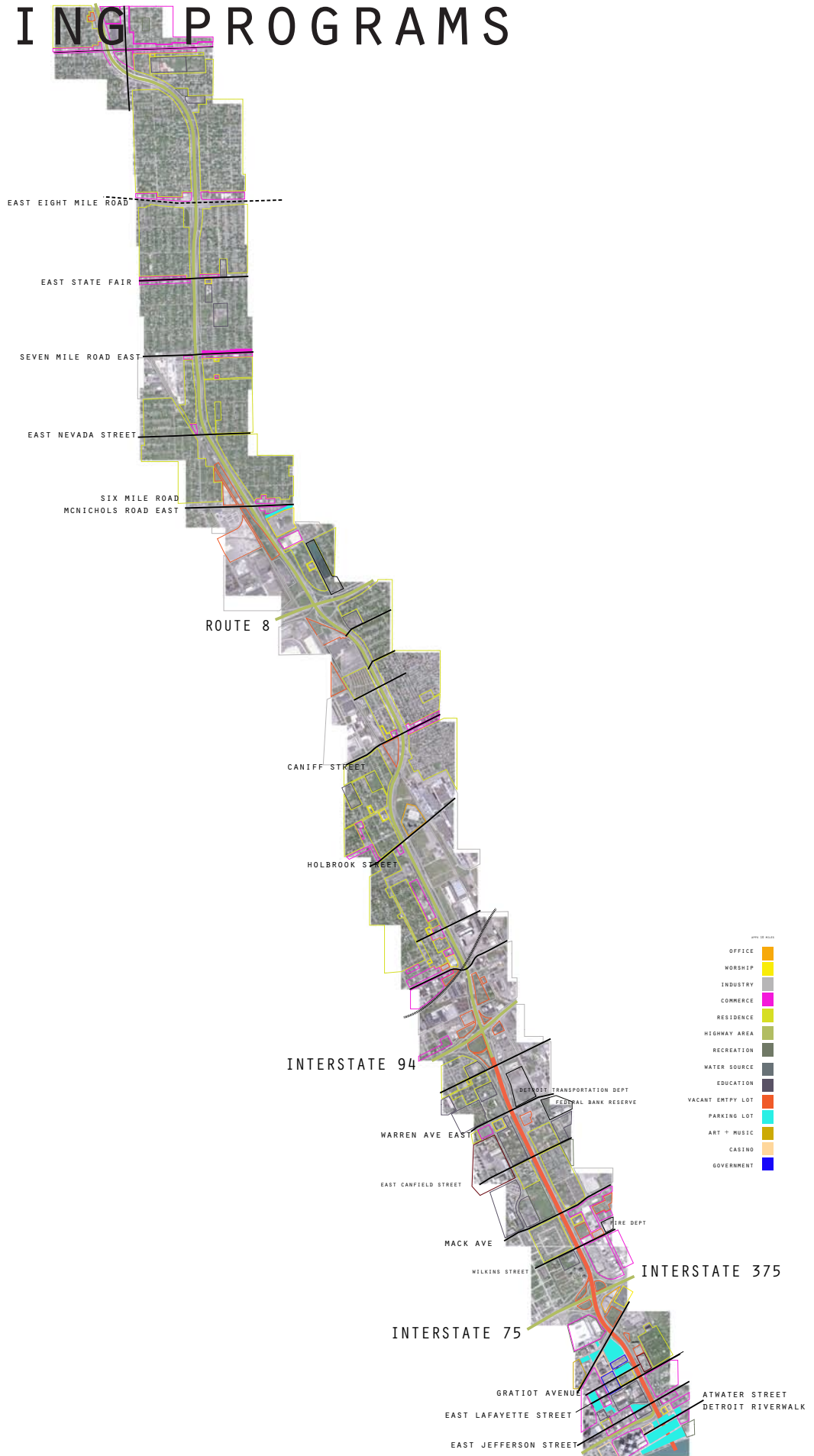


PEDESTRIAN NODES
PERMEABILITY



LIFTED HIGHWAY

EXISTING PROGRAMS



ACCESS TO HIGHWAY

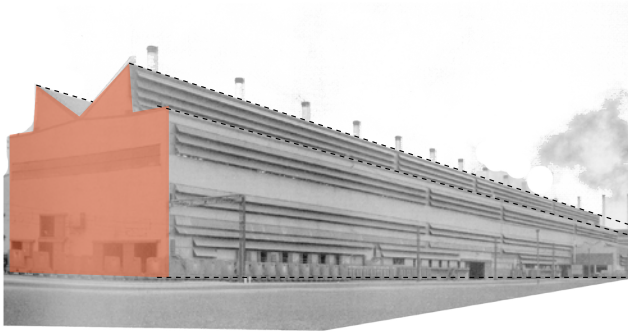
ENTRANCES AND EXITS, POSSIBLE NODES ON SITE



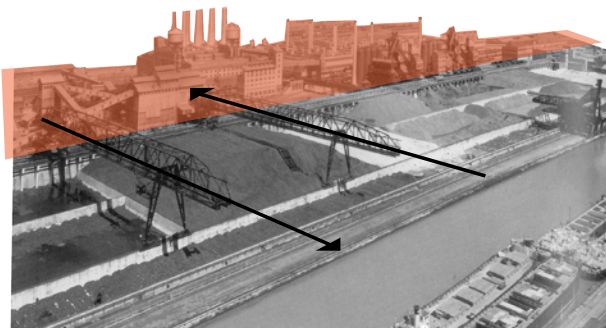
HIGHWAY + PRODUCTION

COMPARING THE COUPLED TYPOLOGIES

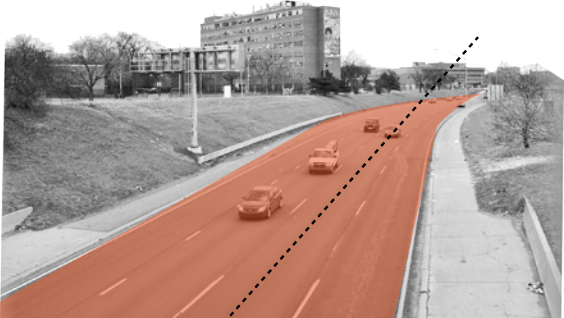
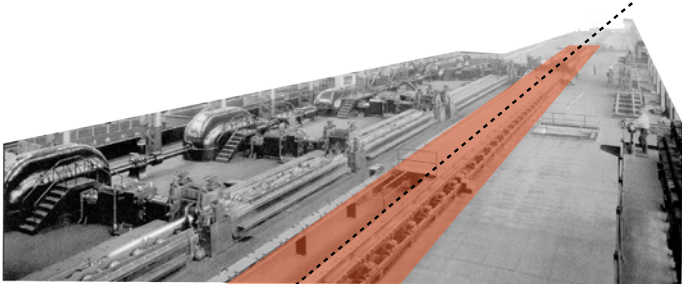
EXTRUDED FORM / REPETITIVE STRUCTURE



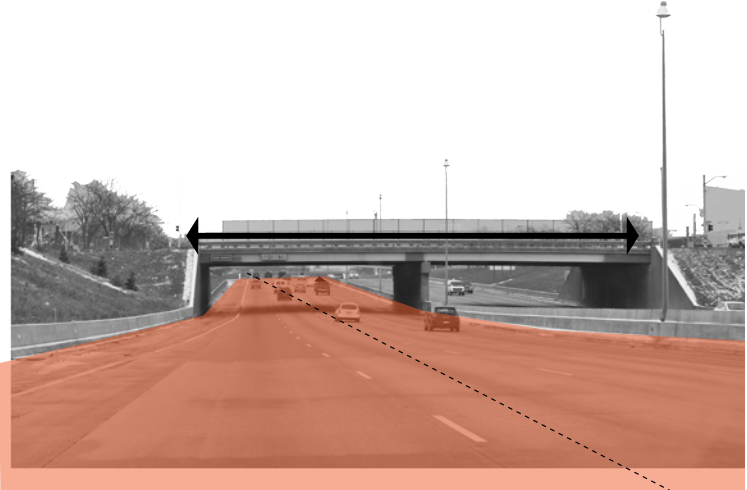
MATERIAL IN / MATERIAL OUT



ORGANIZATIONAL AXIS

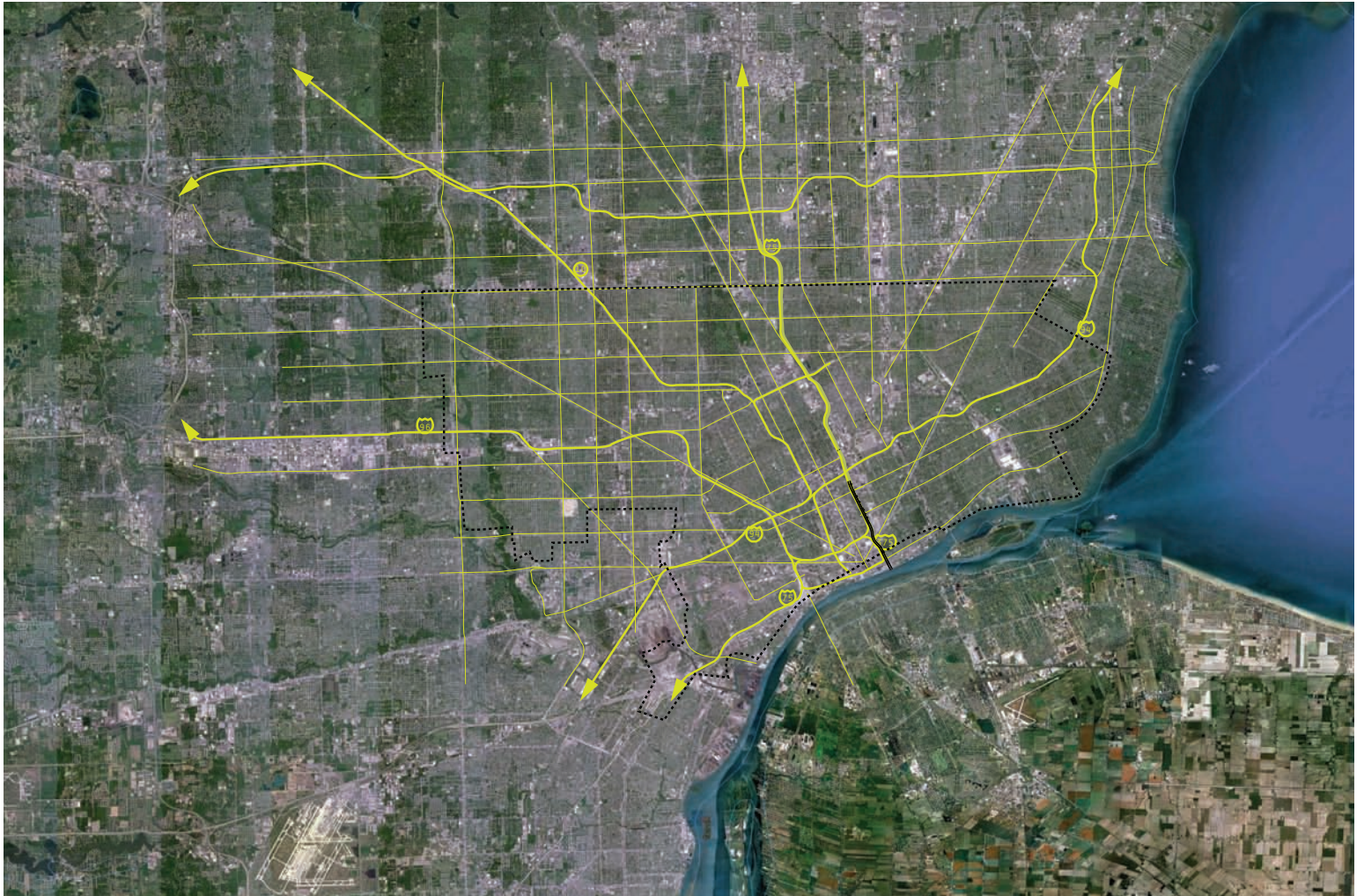


TRANSVERSE MOVEMENT



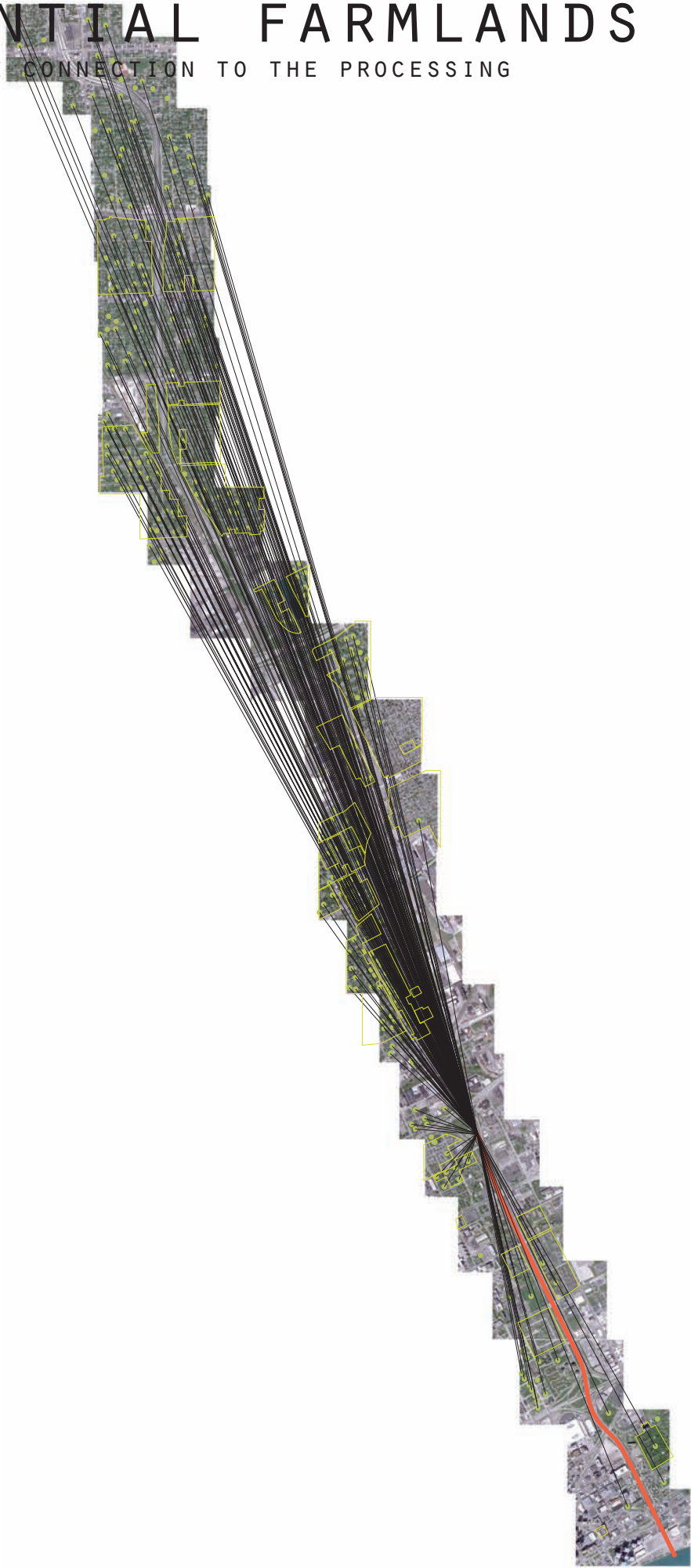
HIGHWAY SYSTEM

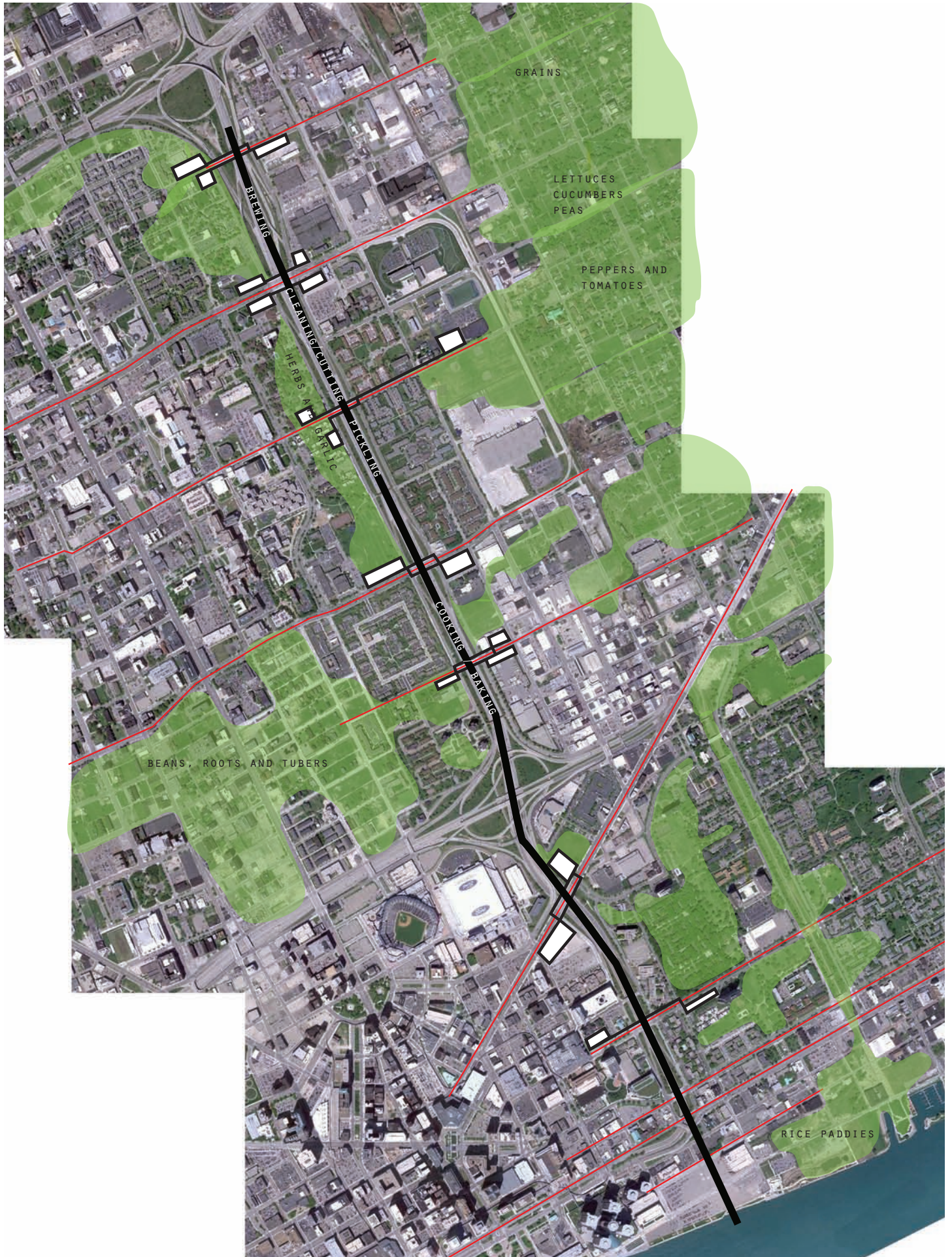
USING THE EXISTING SYSTEM TO CREATE A PRODUCTIVE URBAN
CONDITION THAT CAN PROVIDE FOR THE SURROUNDING AREAS



POTENTIAL FARMLANDS

SHOWING THE CONNECTION TO THE PROCESSING





GRAINS

LETTUCES
CUCUMBERS
PEAS

PEPPERS AND
TOMATOES

HERBS AND
GARLIC

BEANS, ROOTS AND TUBERS

RICE PADDIES

BREWING

CLEANING/CUTTING

PICKLING

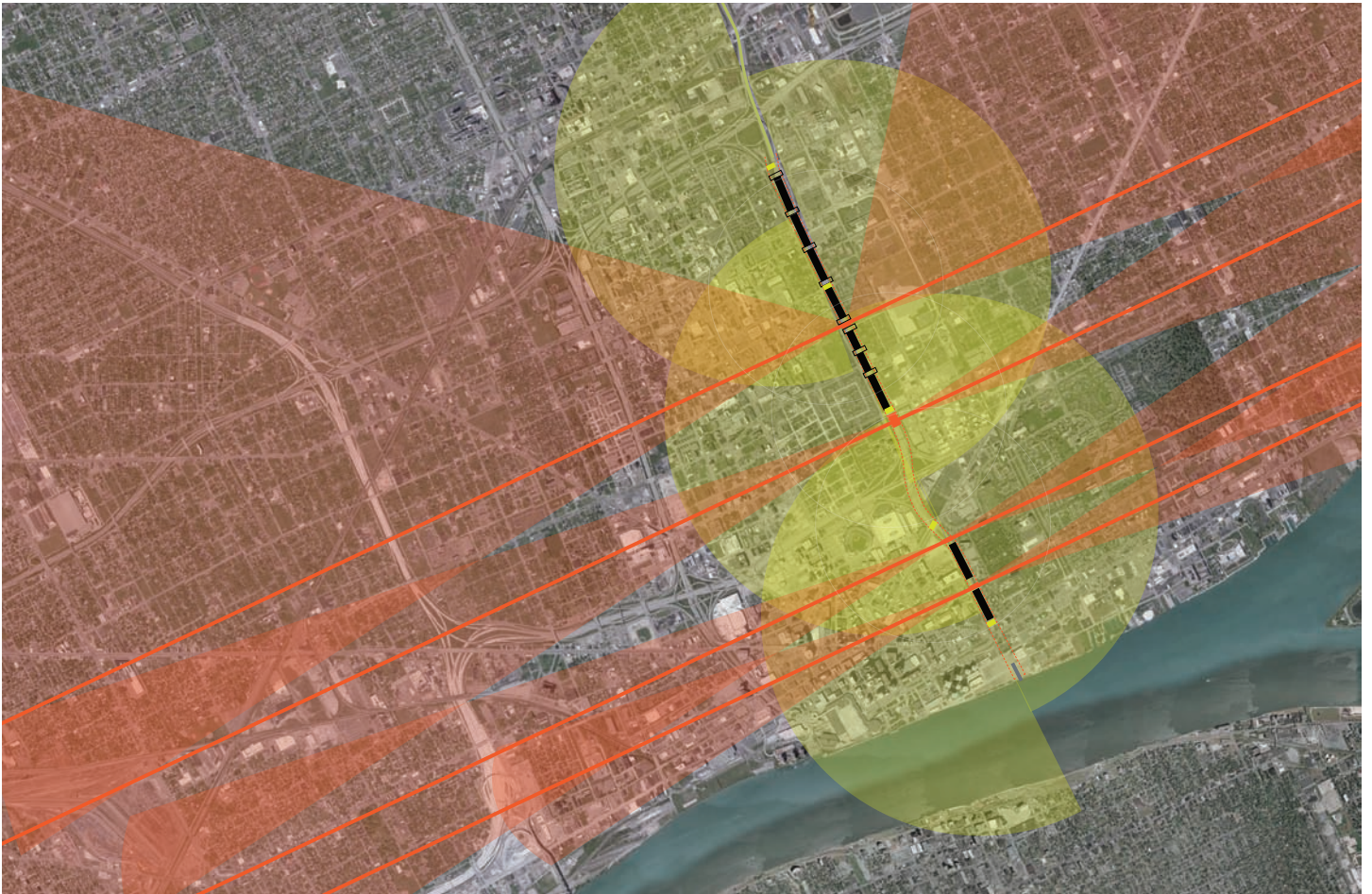
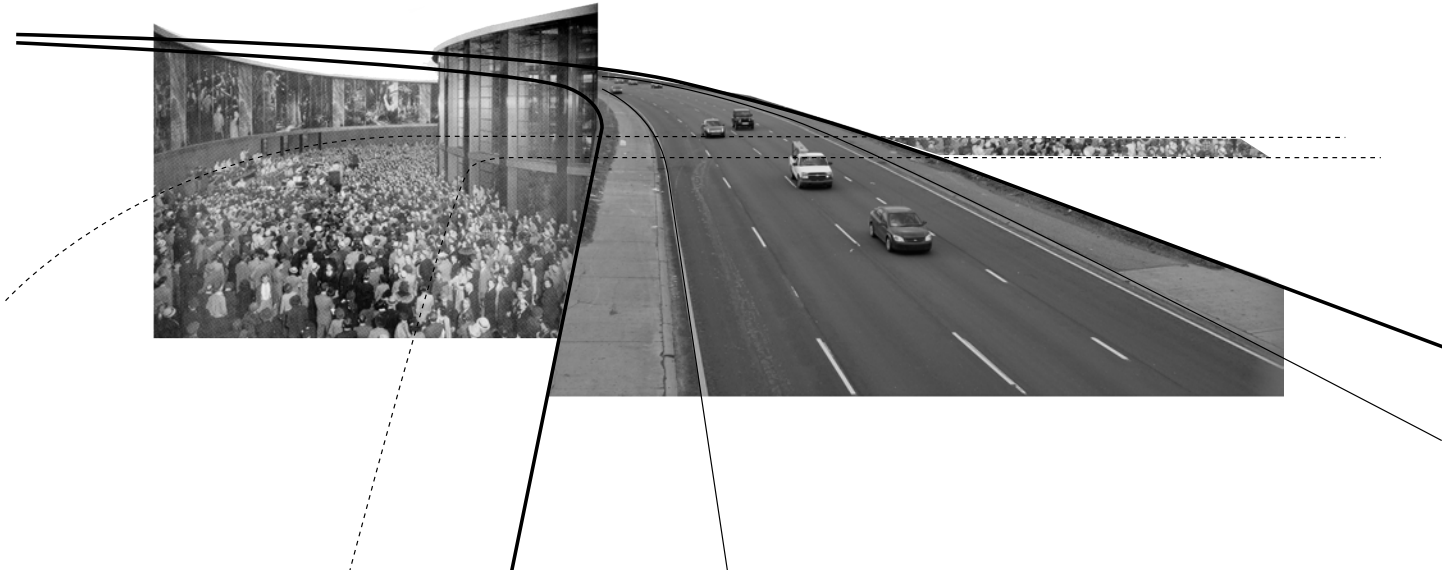
COOKING

BAKING

LOCAL + REGIONAL

USING MULTIPLE SCALES (PEDESTRIAN, CAR AND TRUCK) THE PROJECT EXTENDS PAST THE HIGHWAY WITH A LARGER SCALE CONNECTION

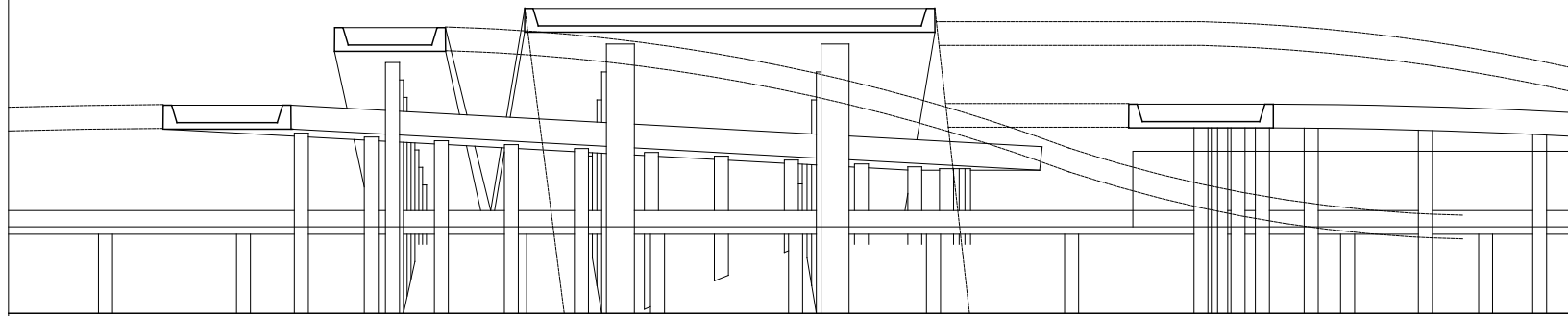
PUBLIC MOVEMENT THROUGH HIGHWAY



NODES: PEDESTRIAN ZONES

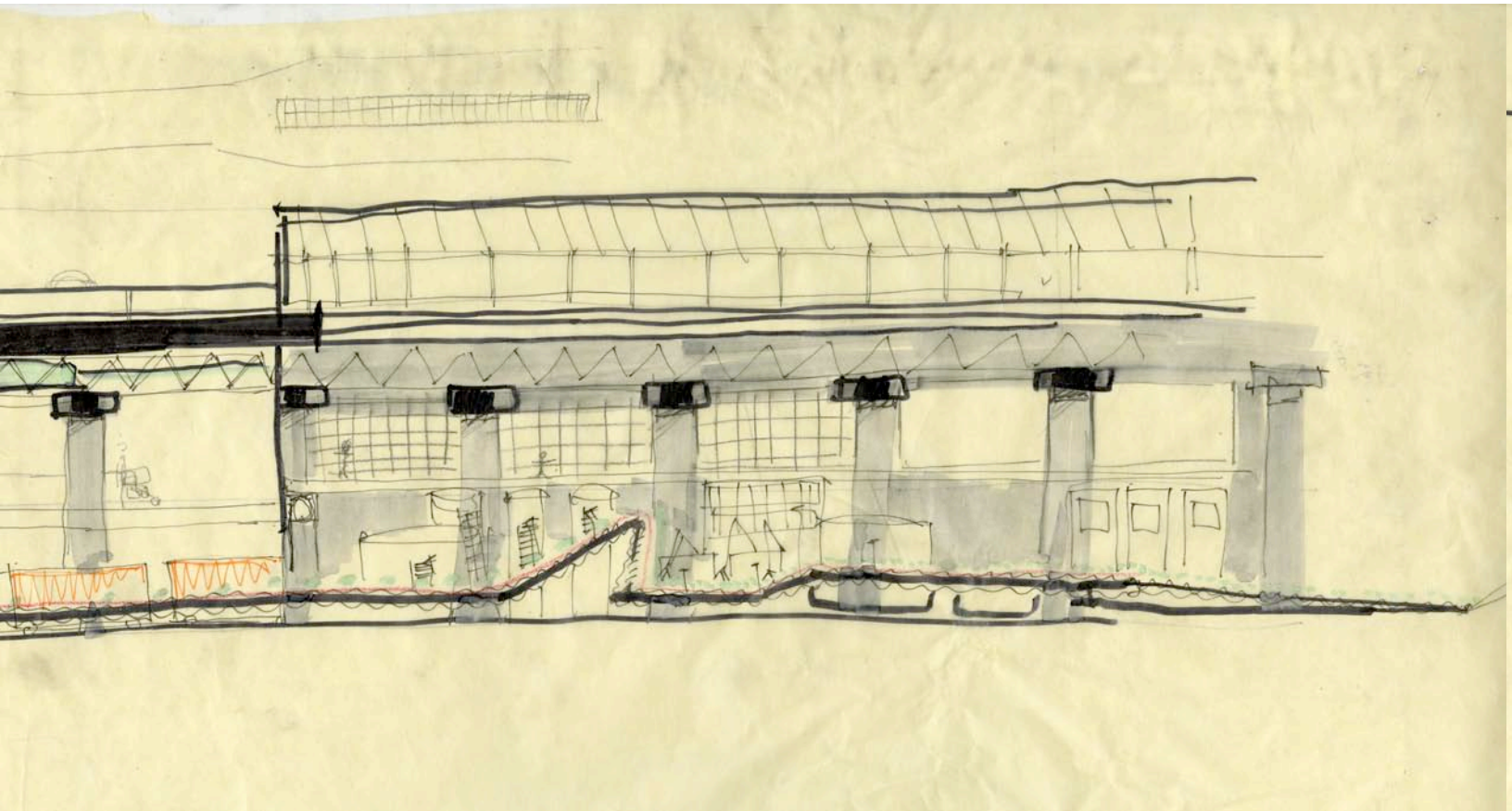
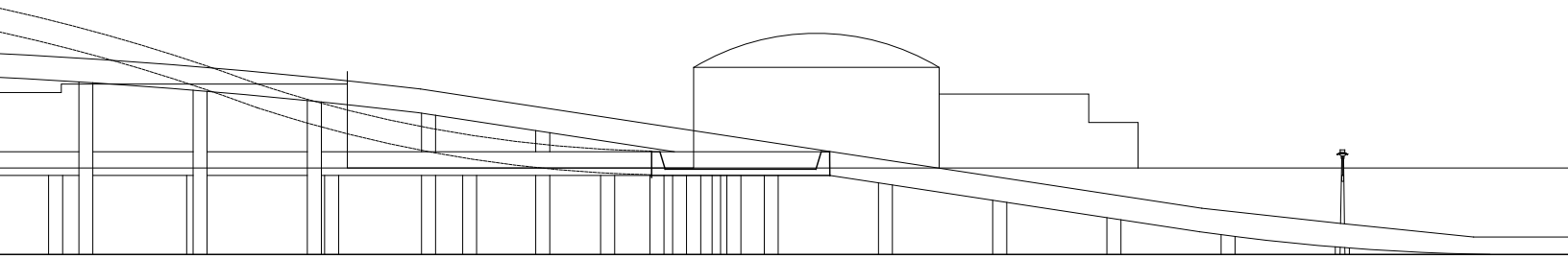
MAJOR INTERSECTIONS: PROGRAMS, HIGHWAY, WALKWAYS AND MARKETS

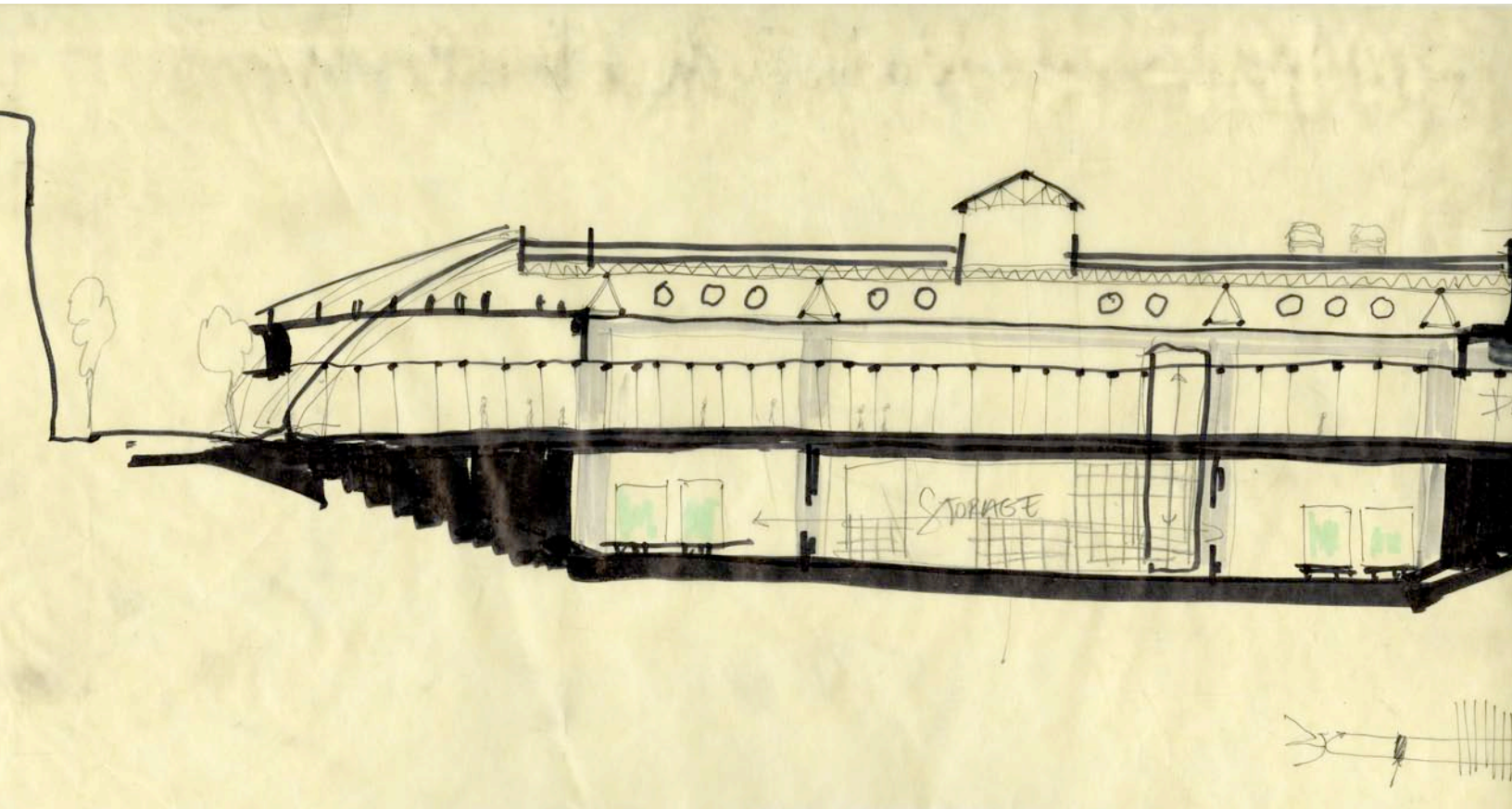
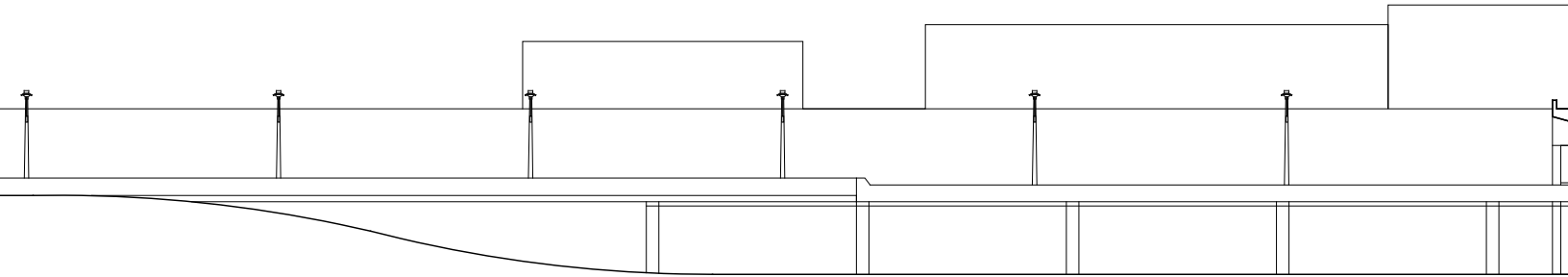


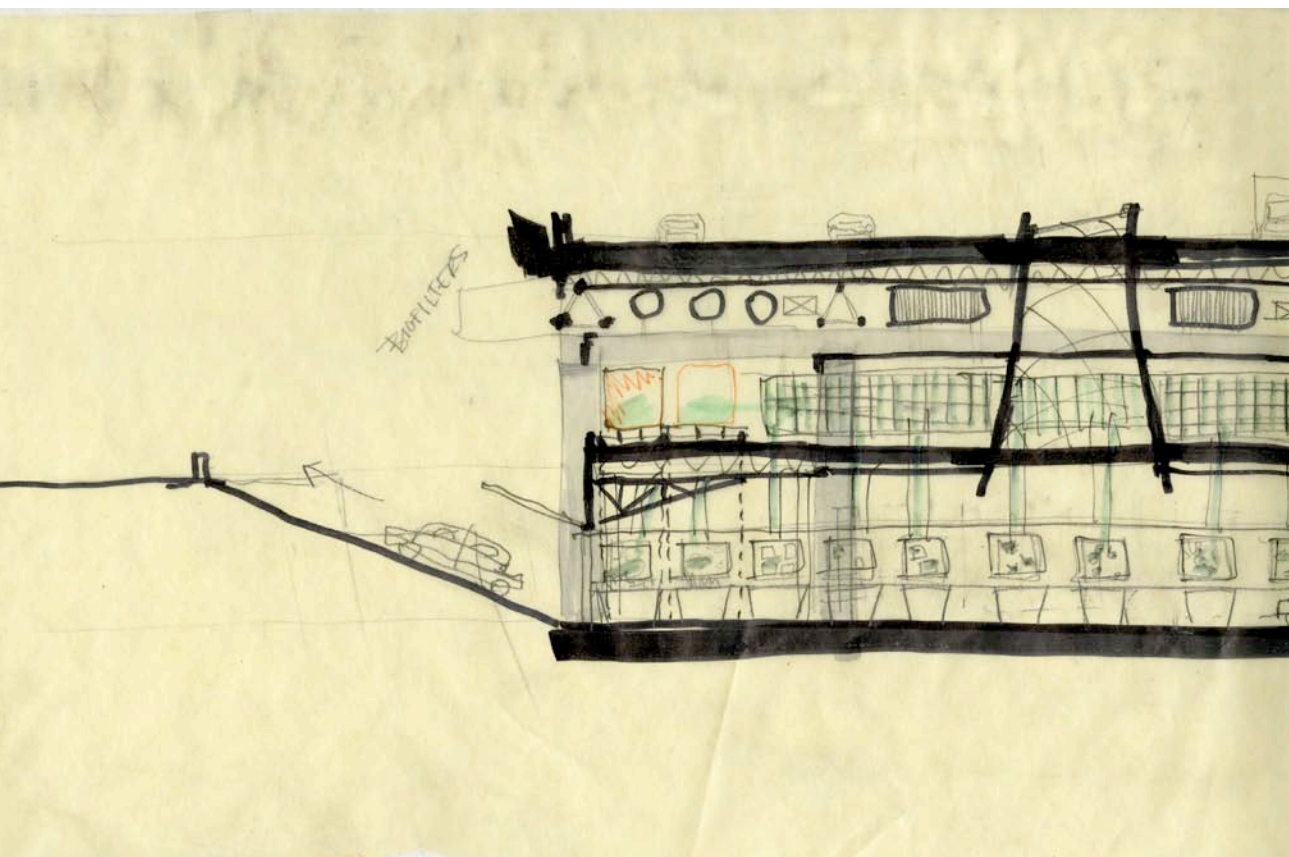
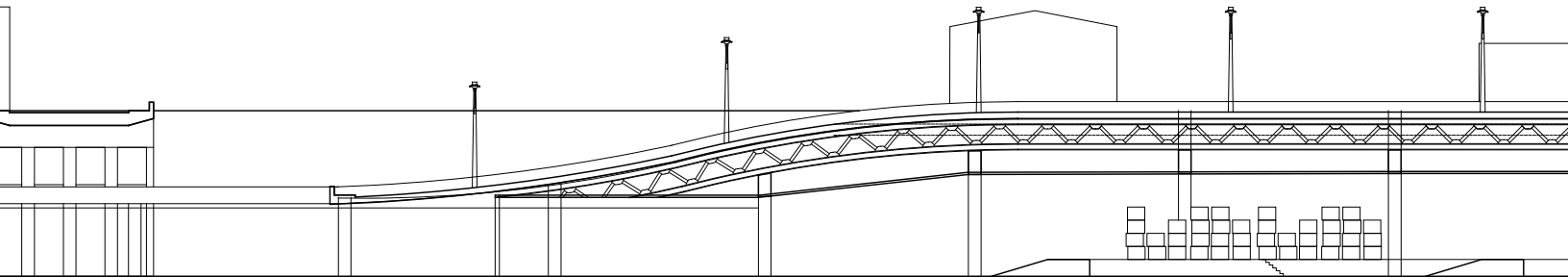


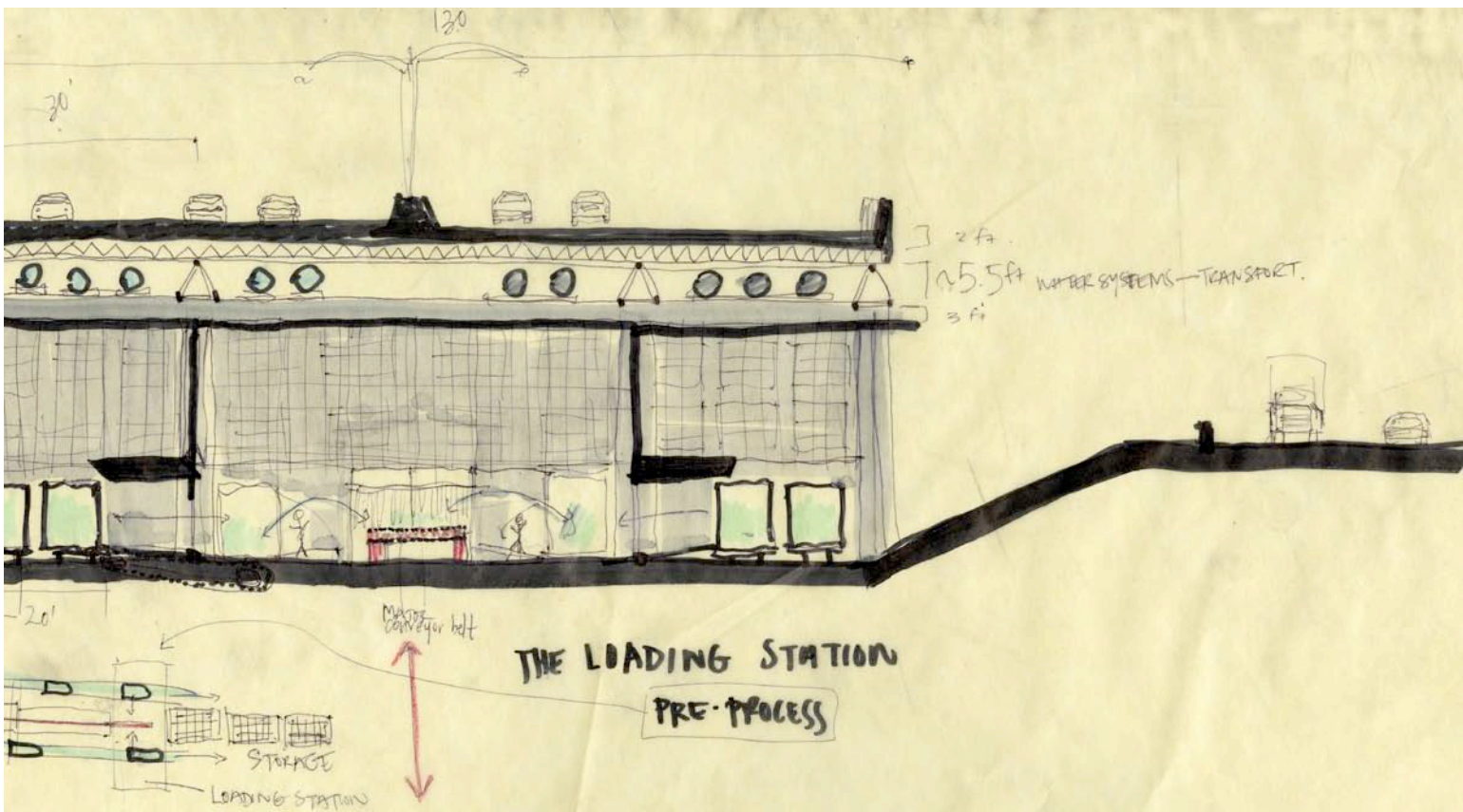
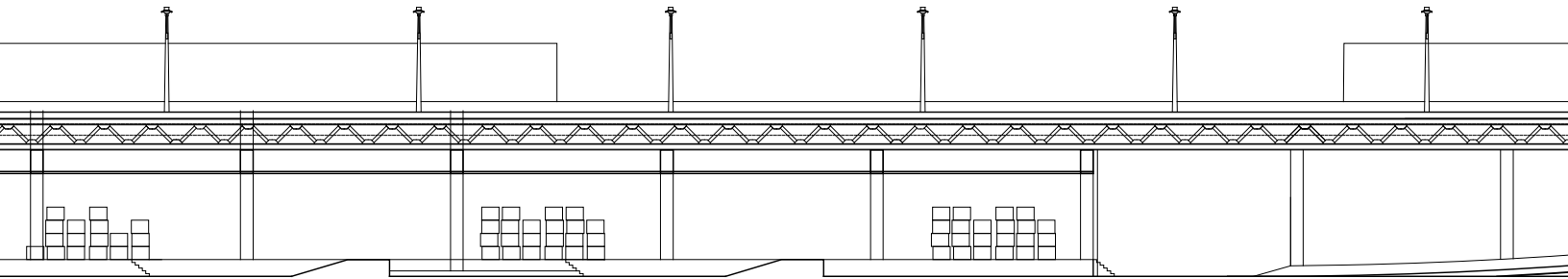
LONG SECTION

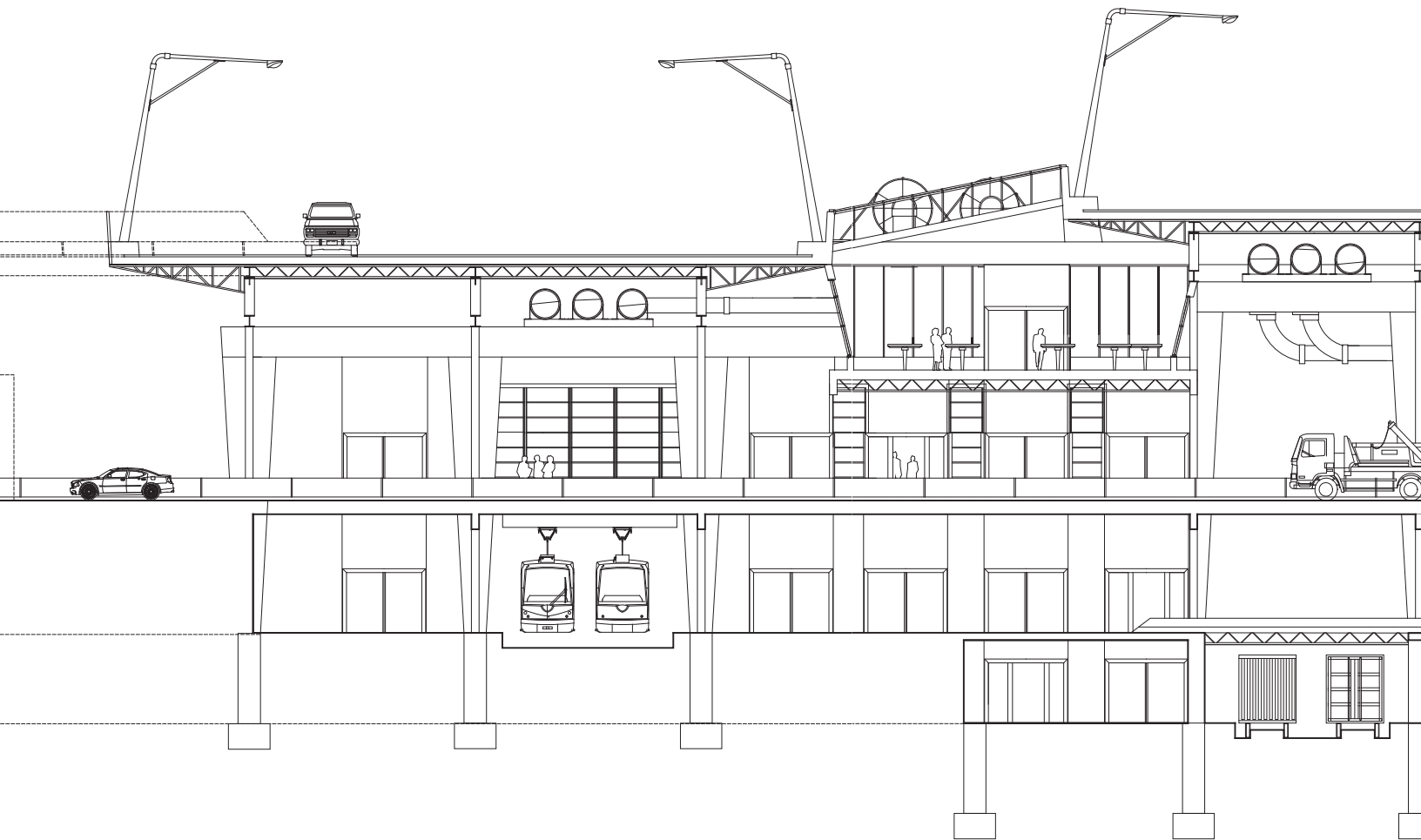
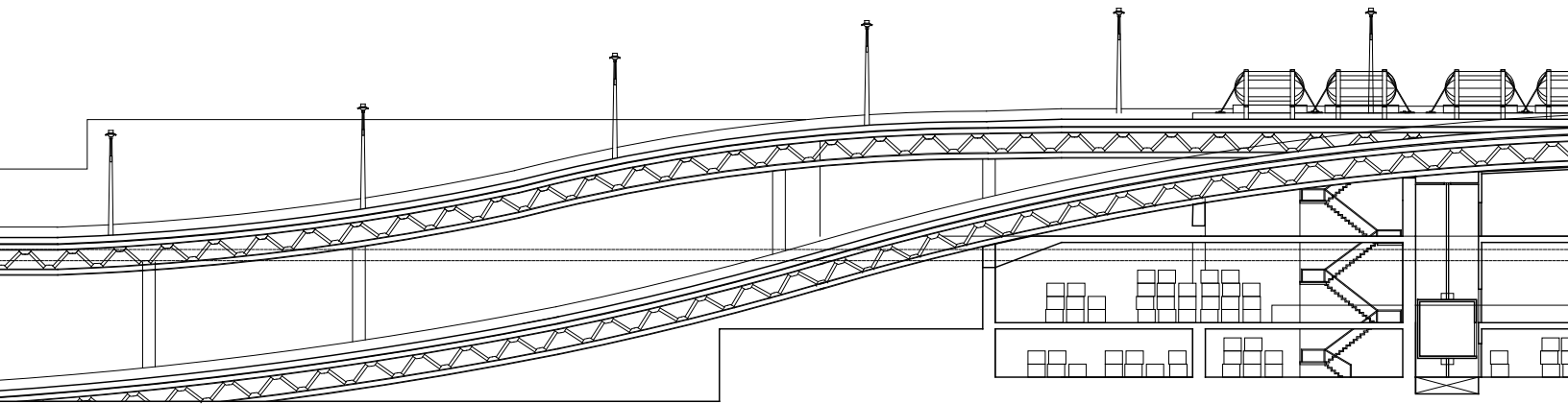


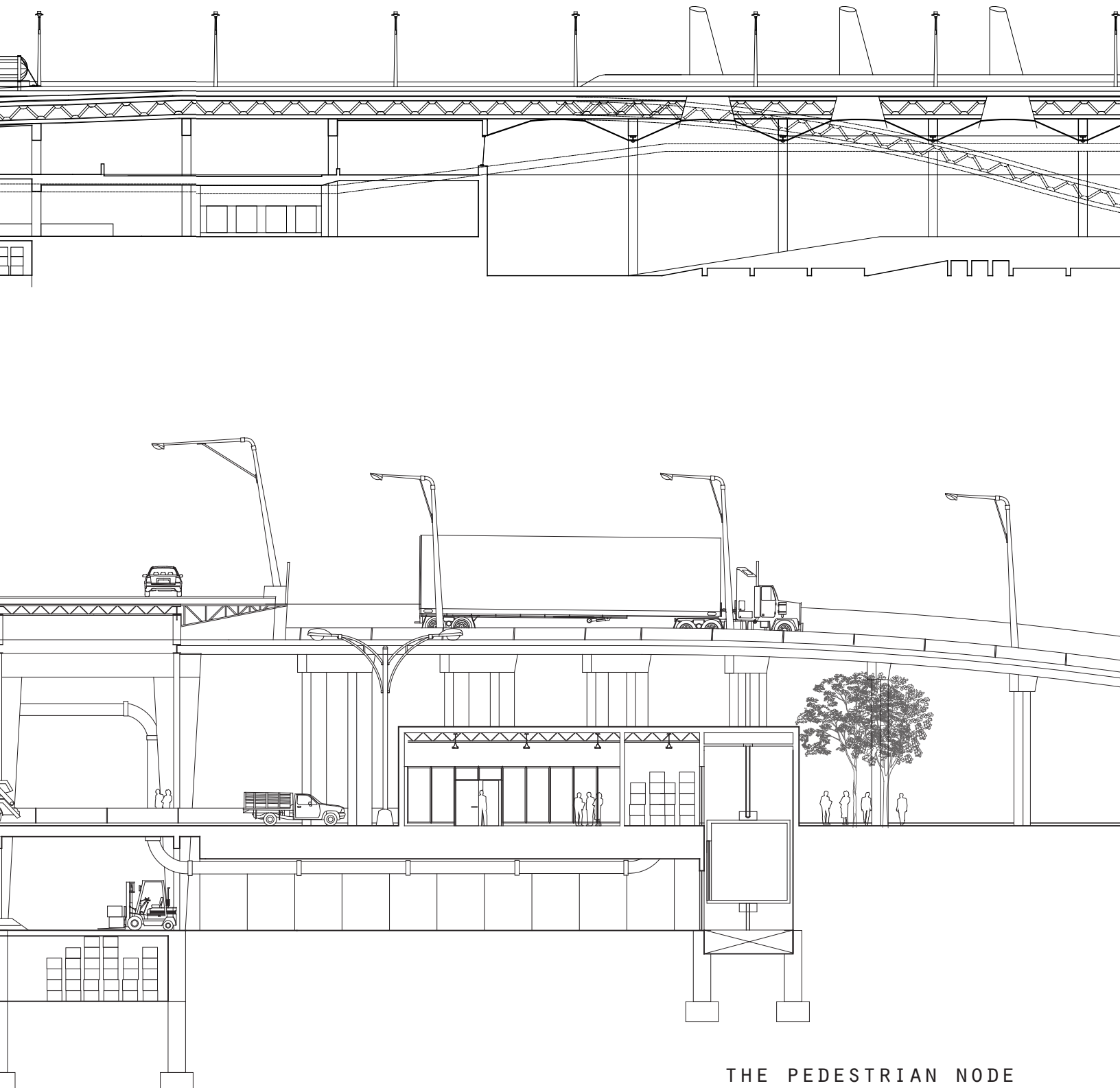




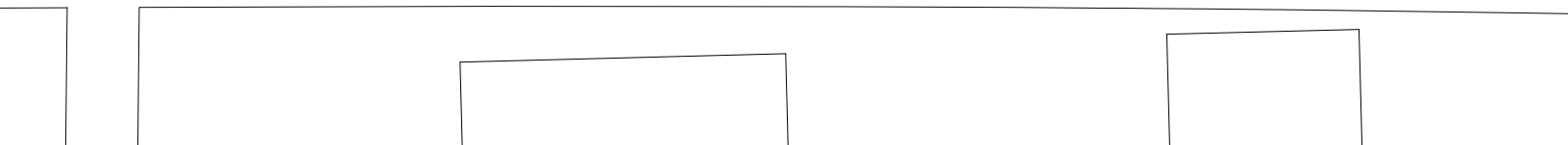
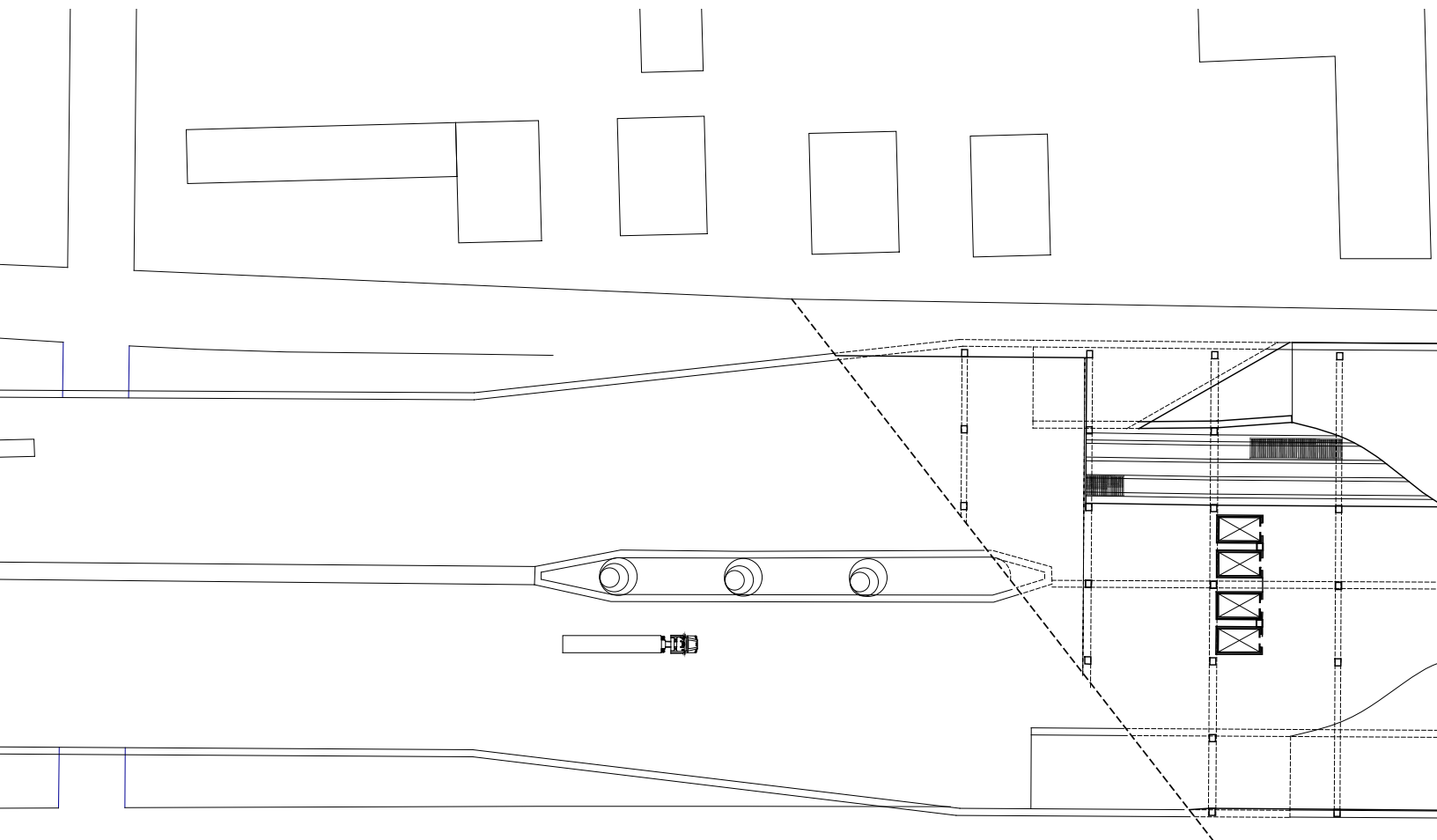
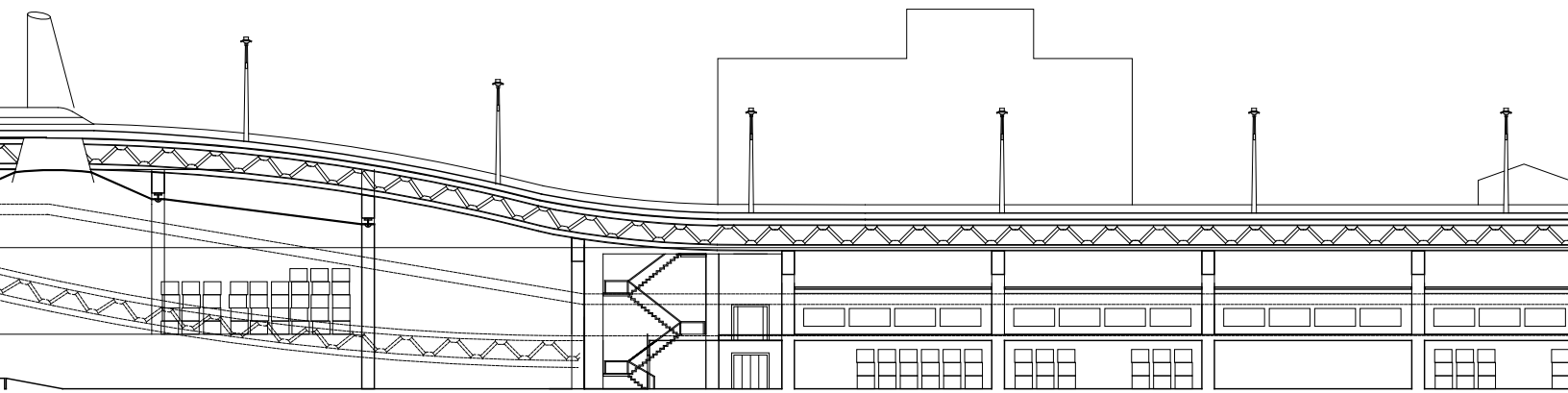


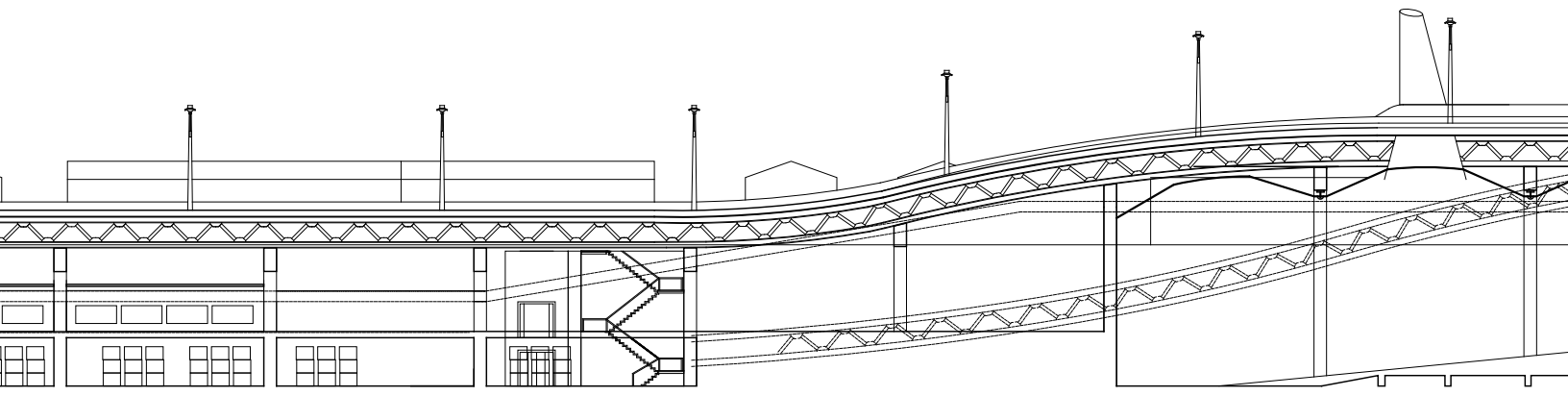




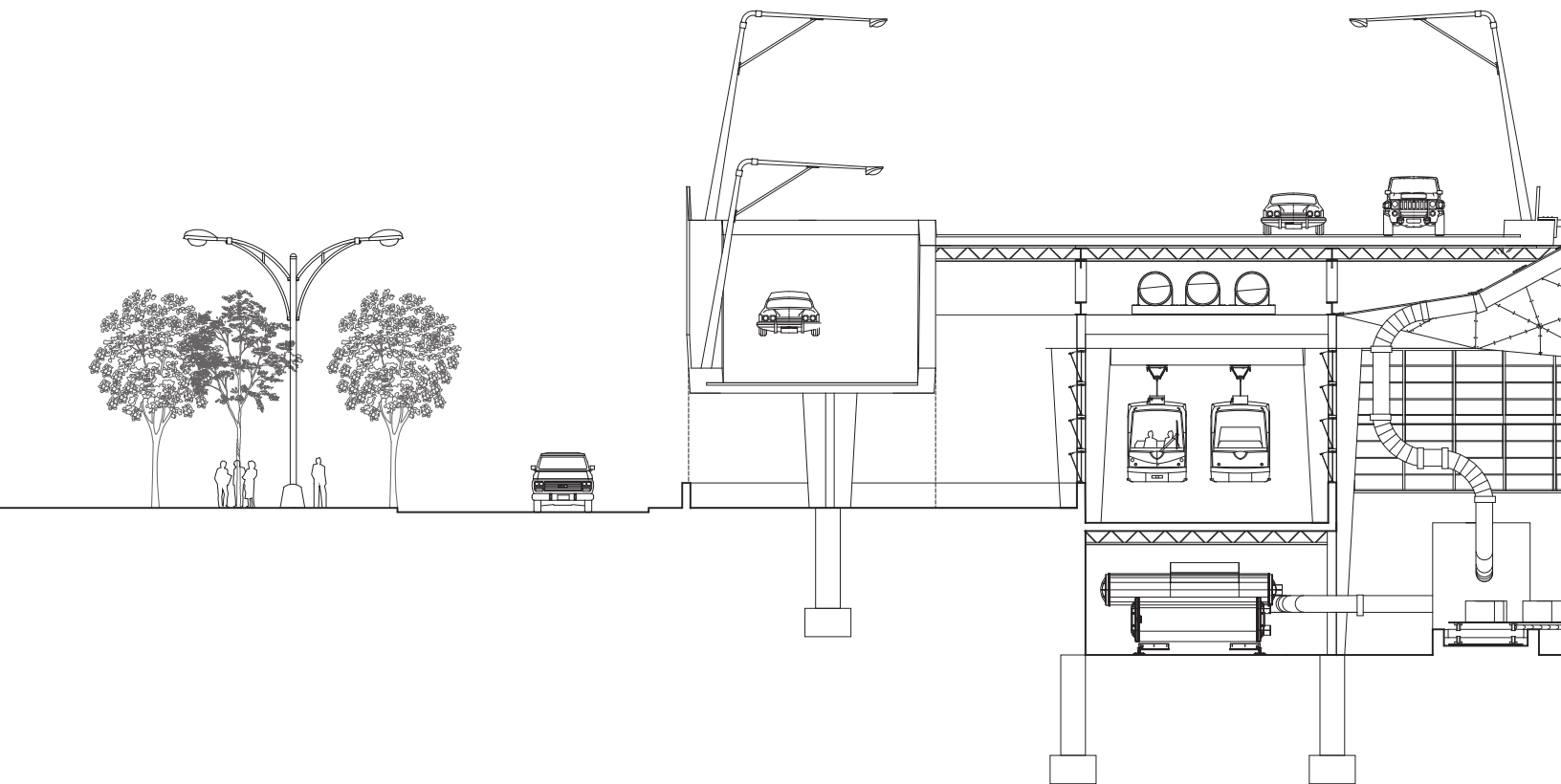
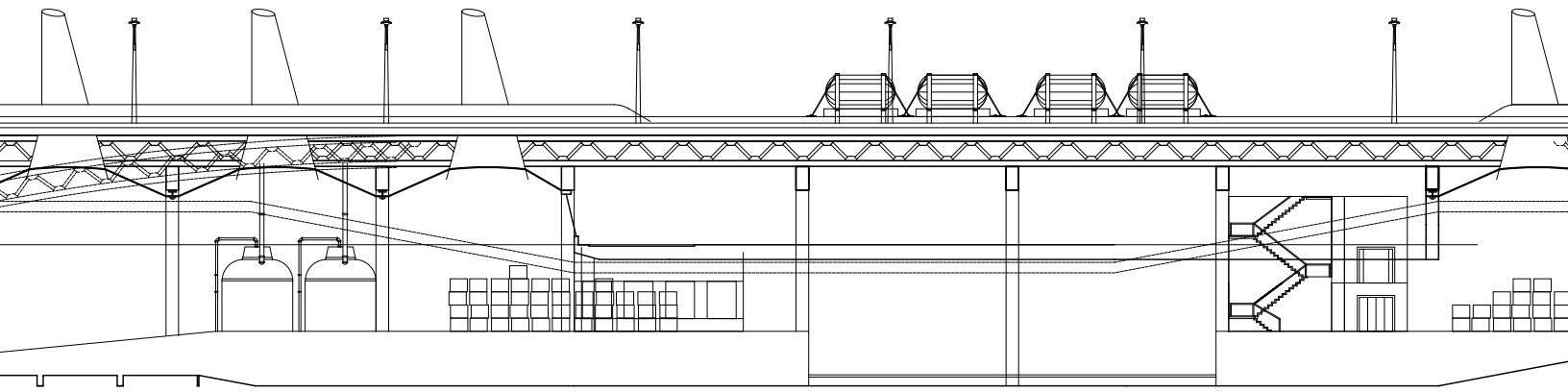


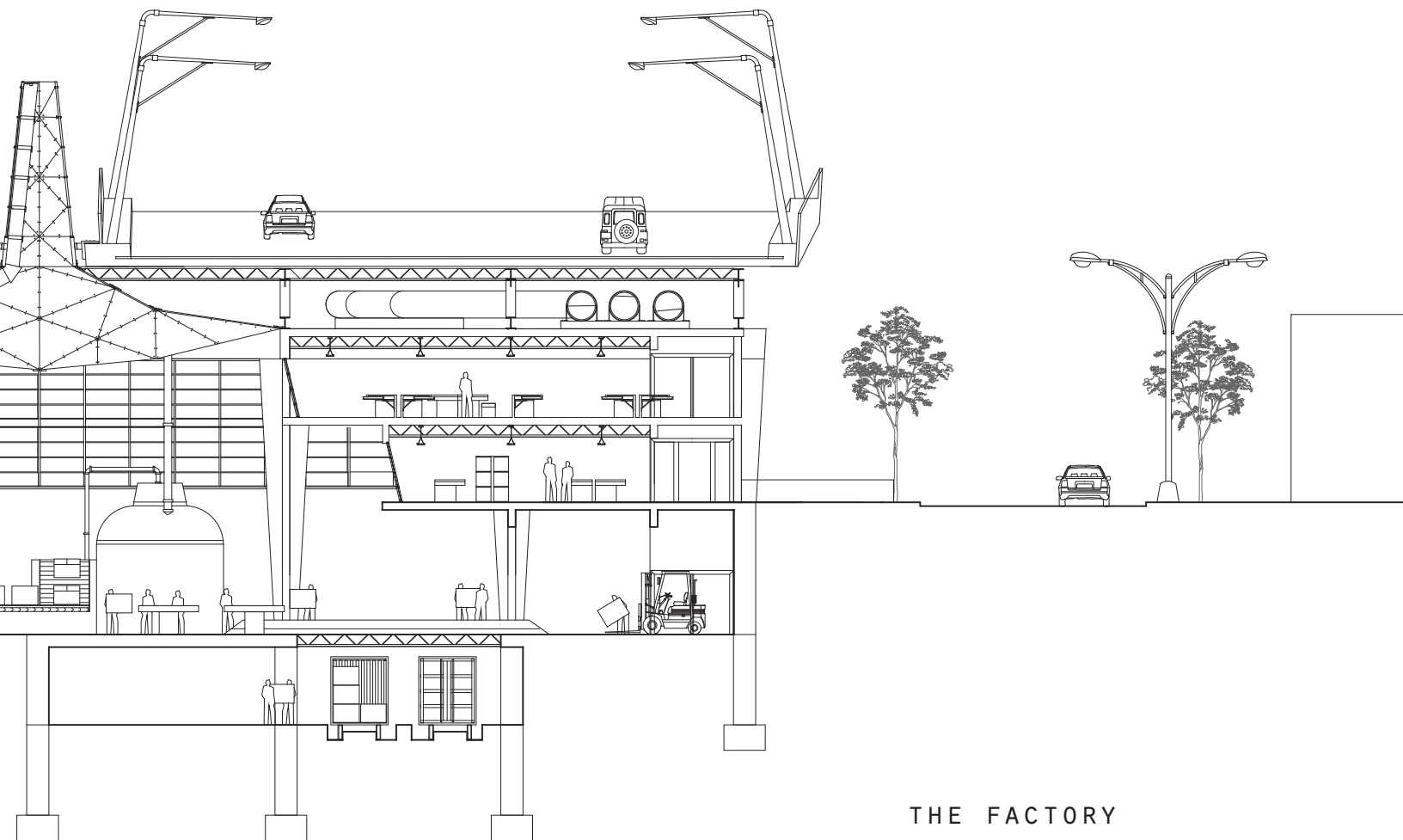
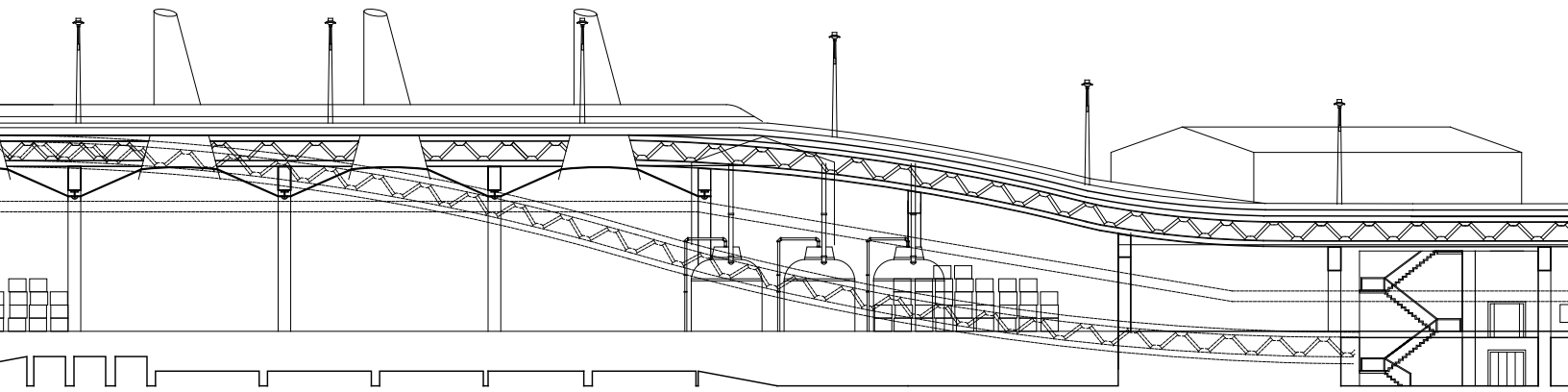
THE PEDESTRIAN NODE



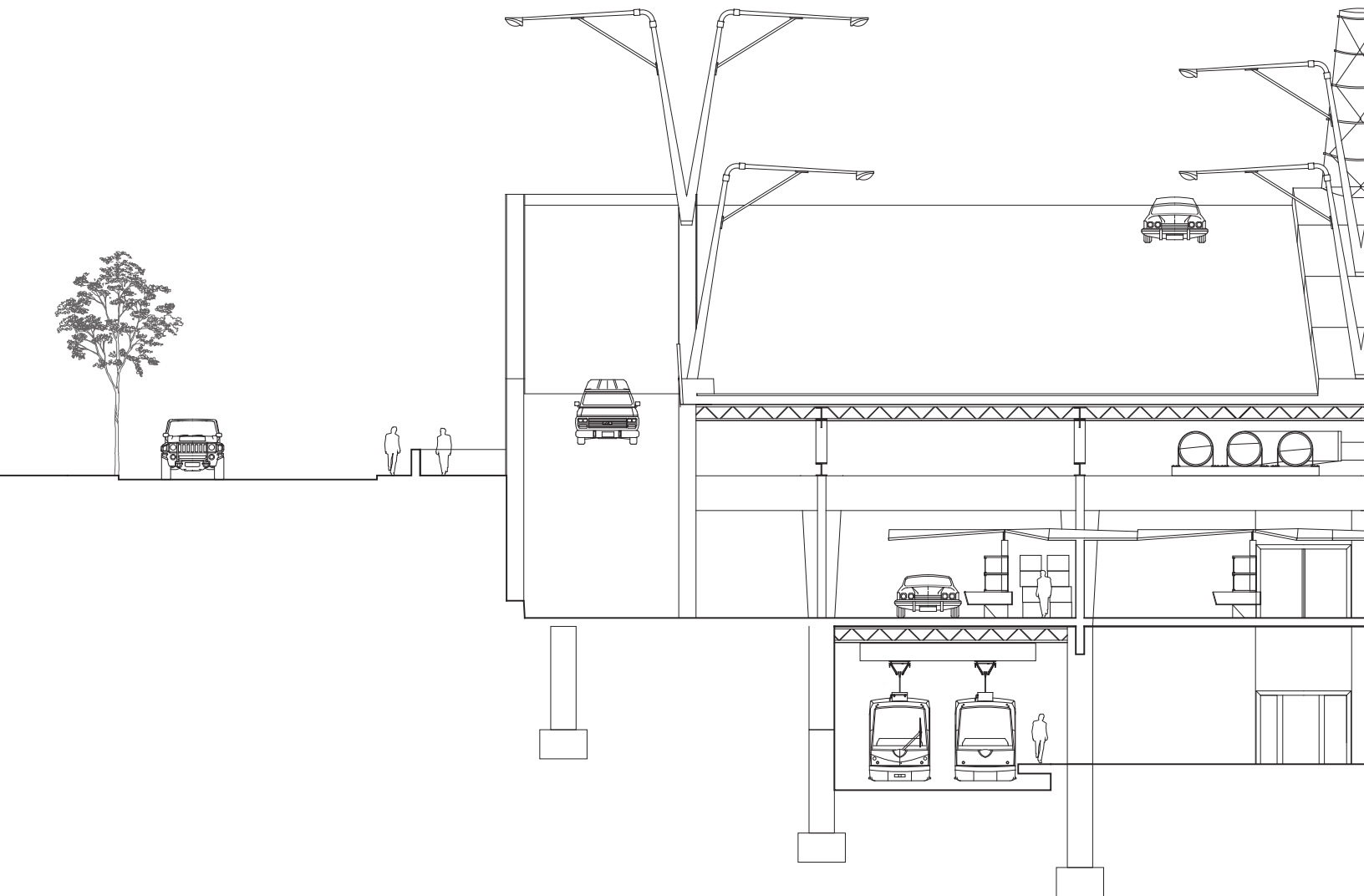
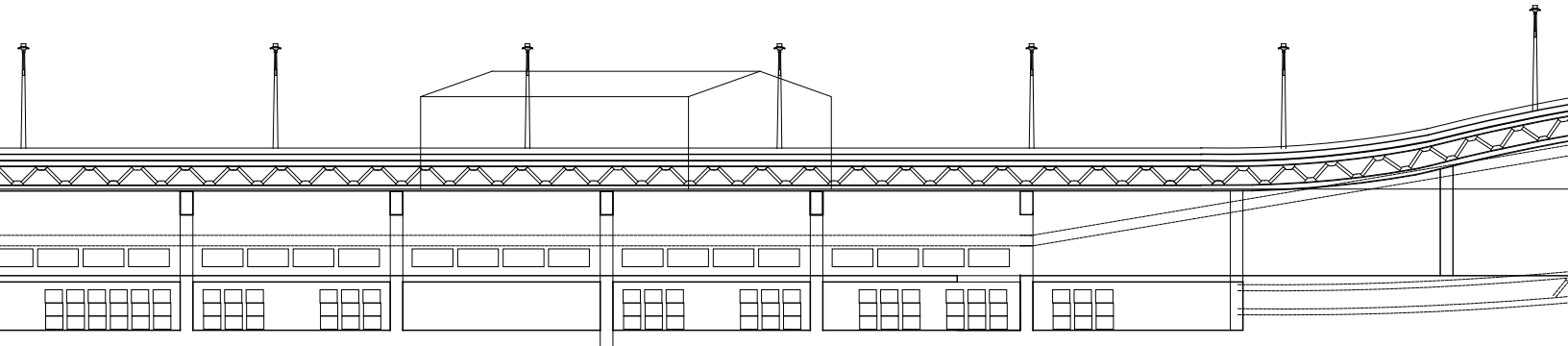


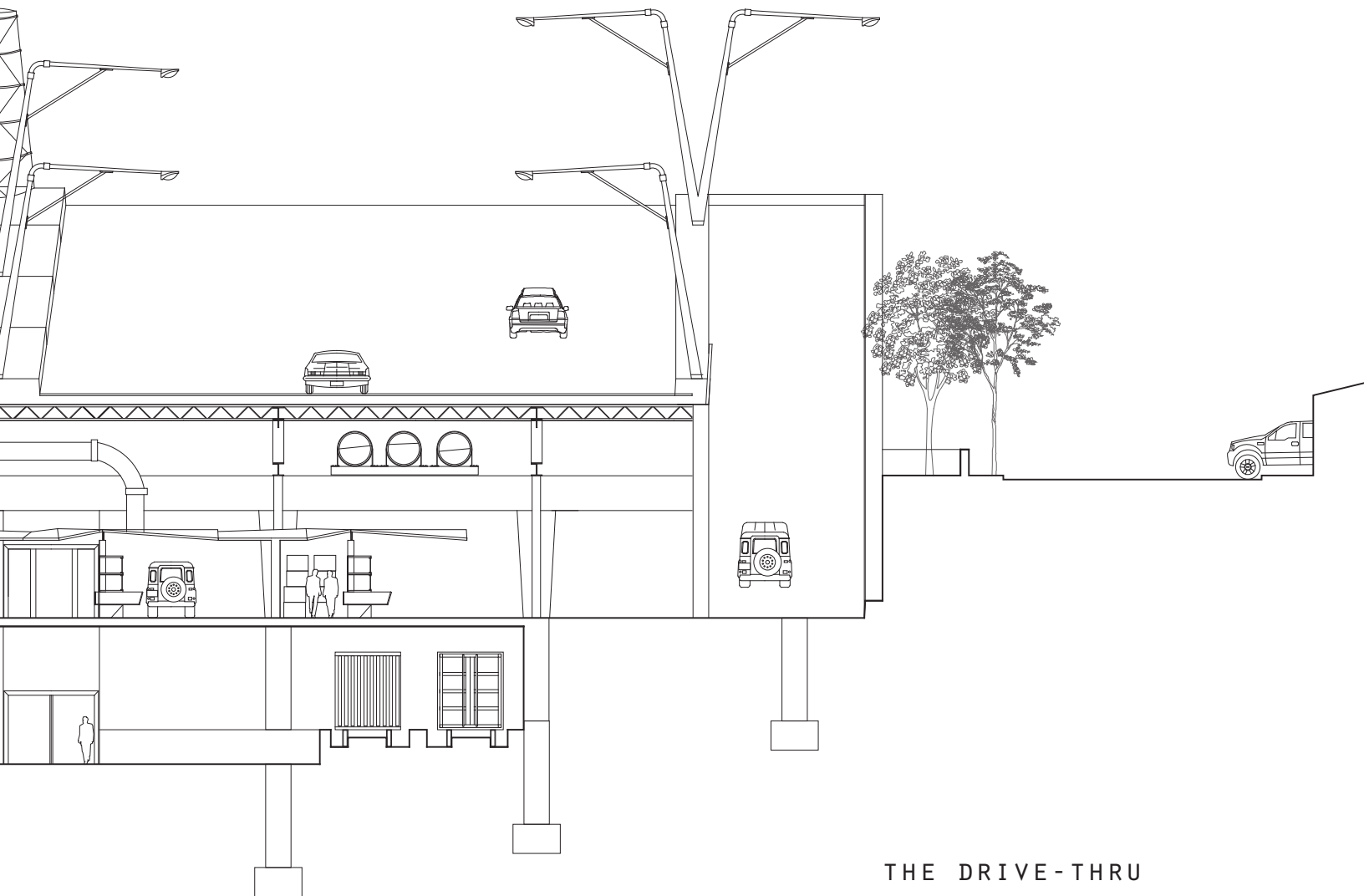
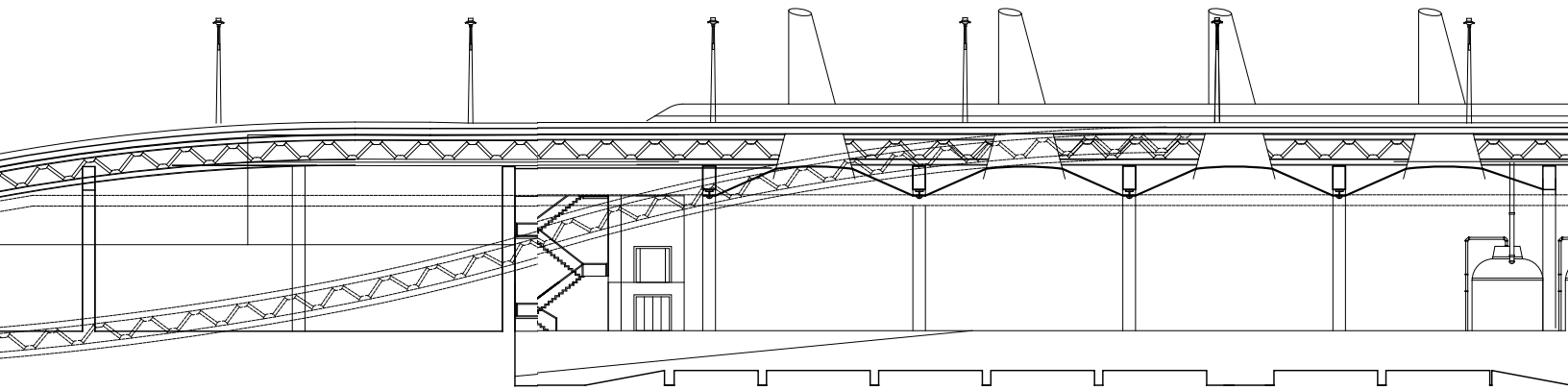
THE DRIVE-THRU



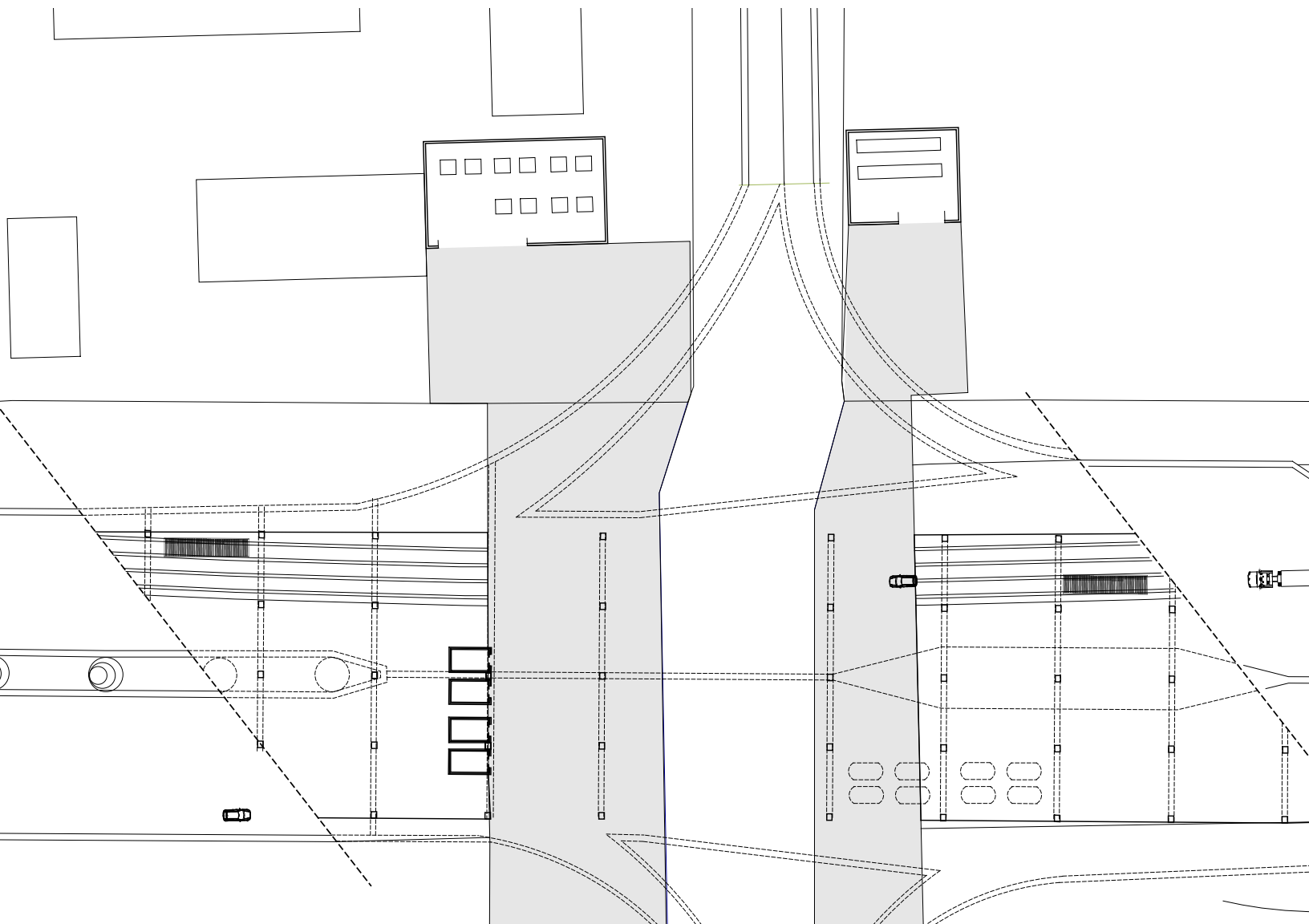
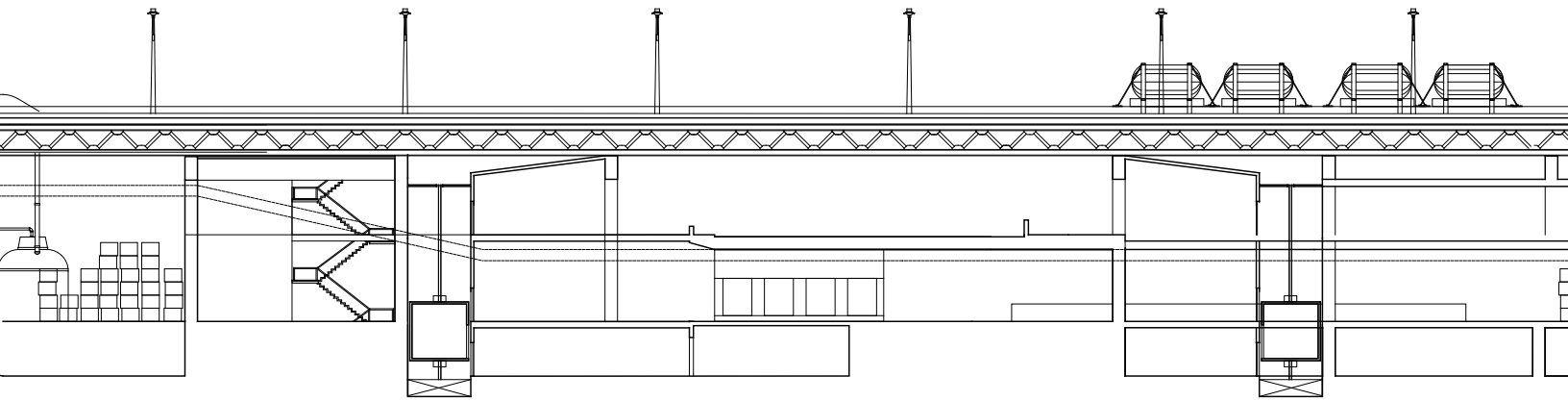


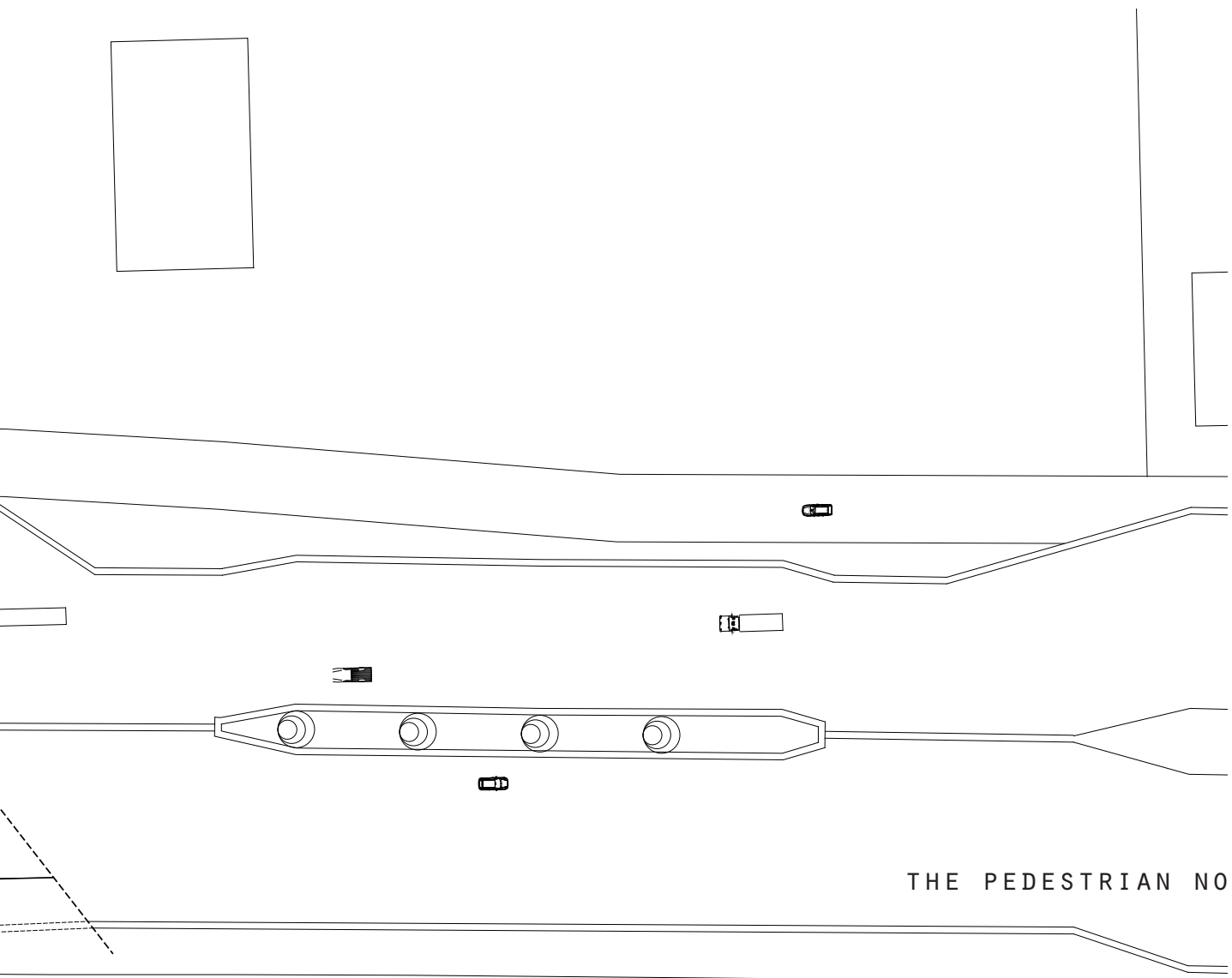
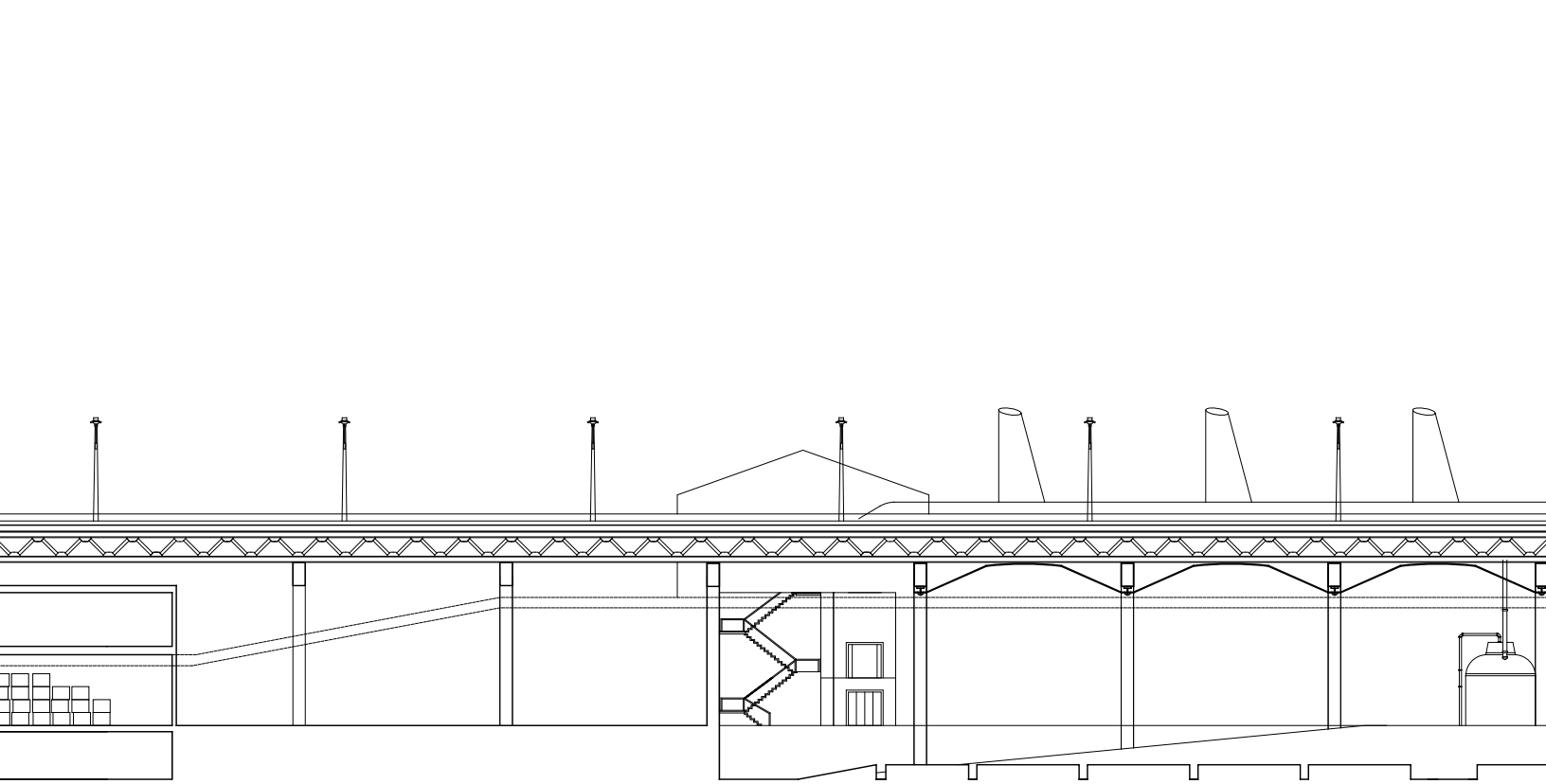
THE FACTORY



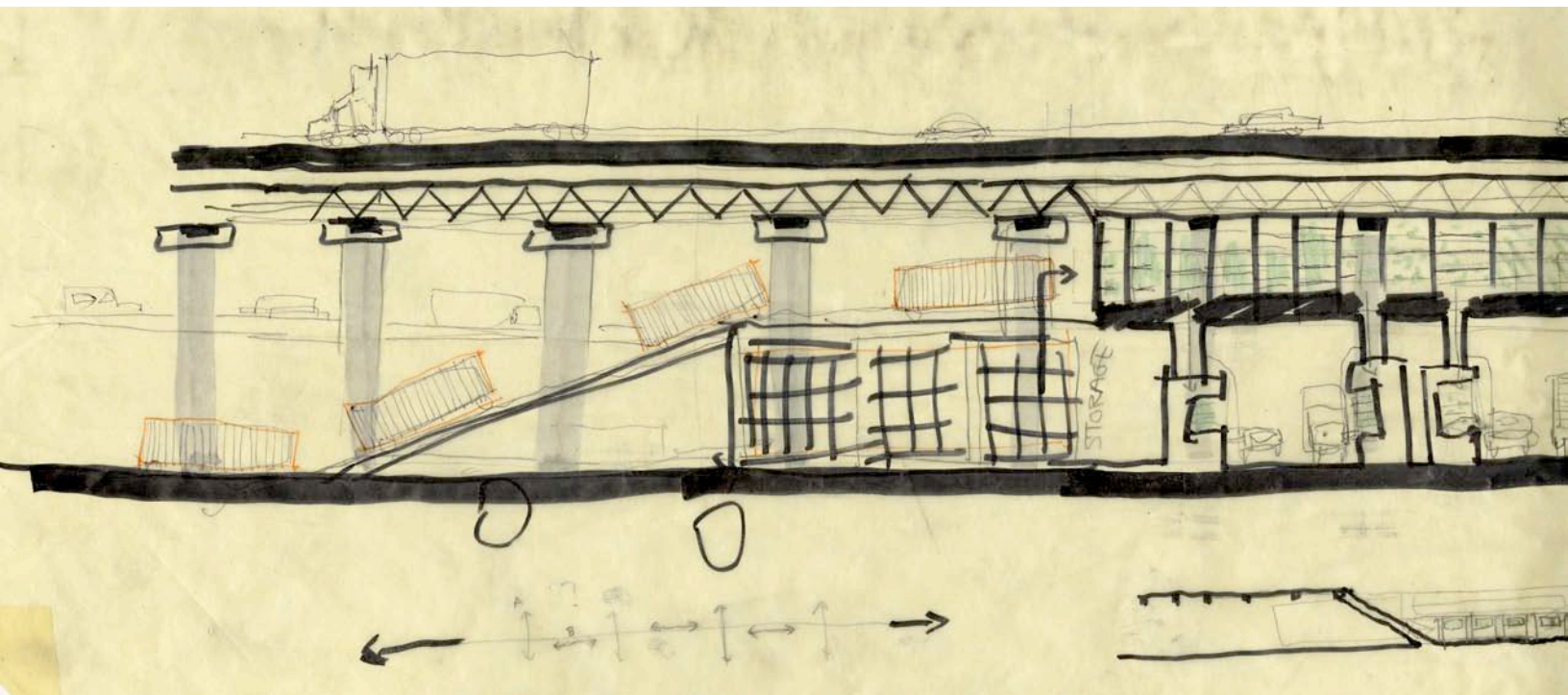
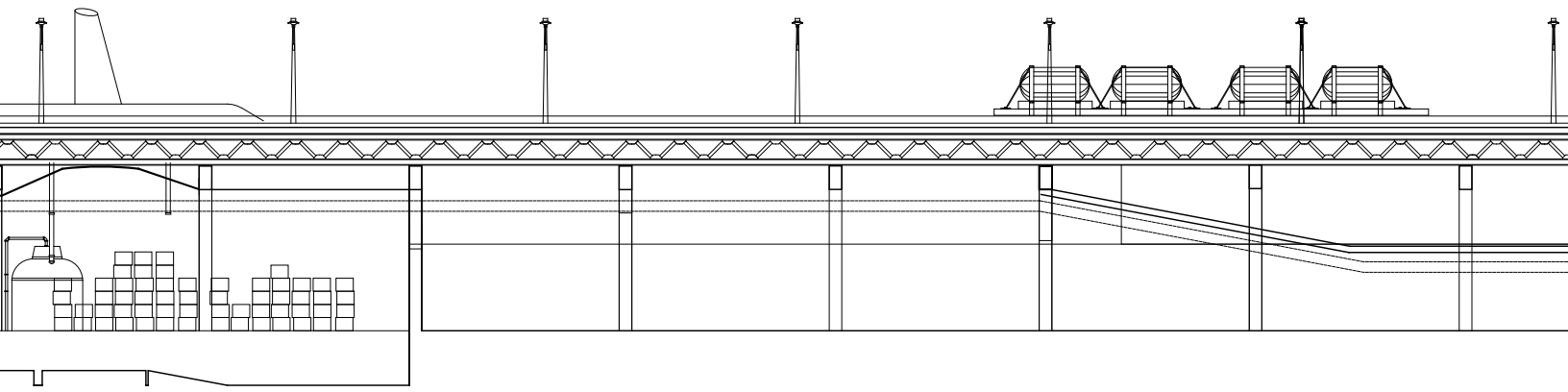


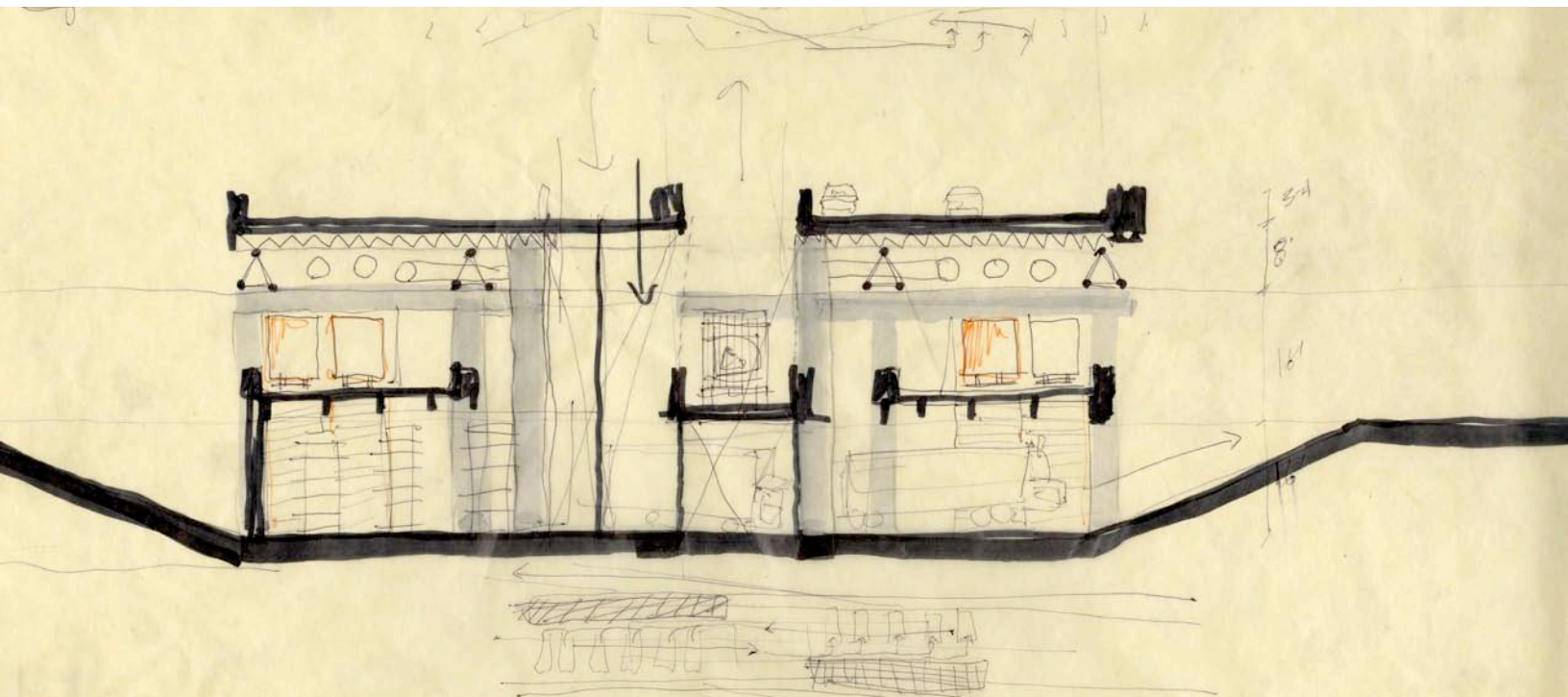
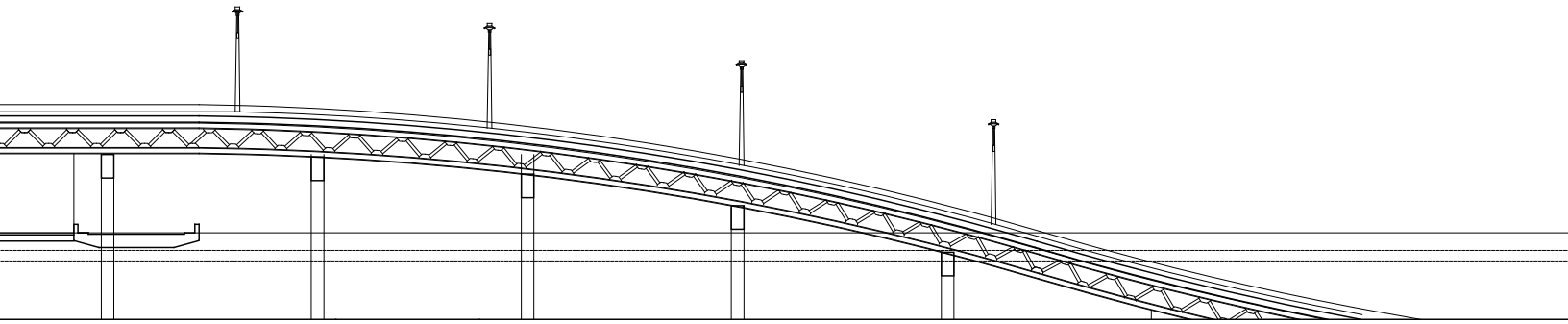
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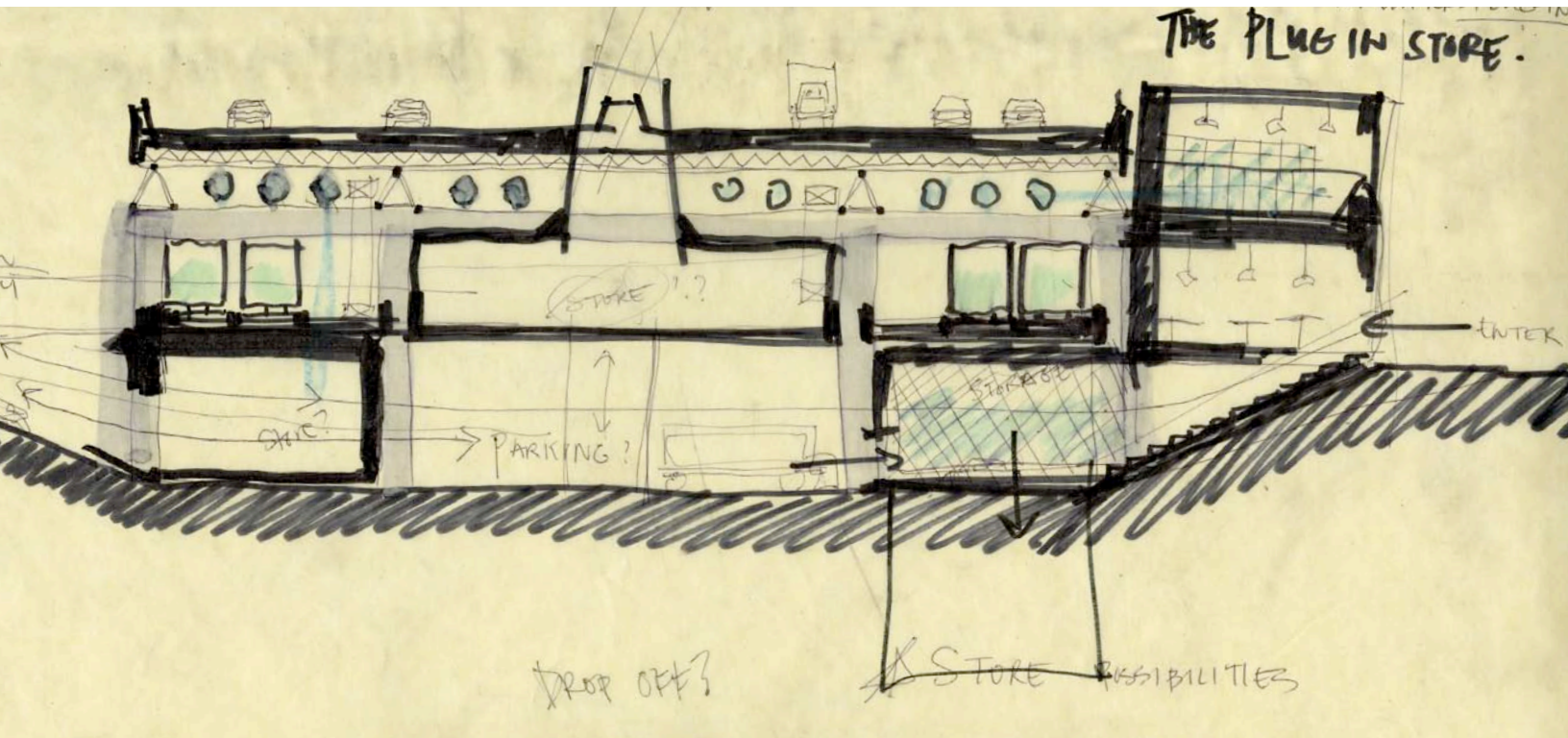
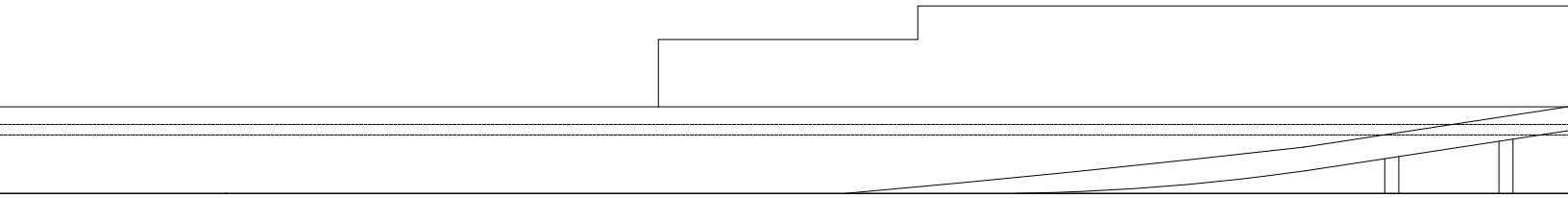


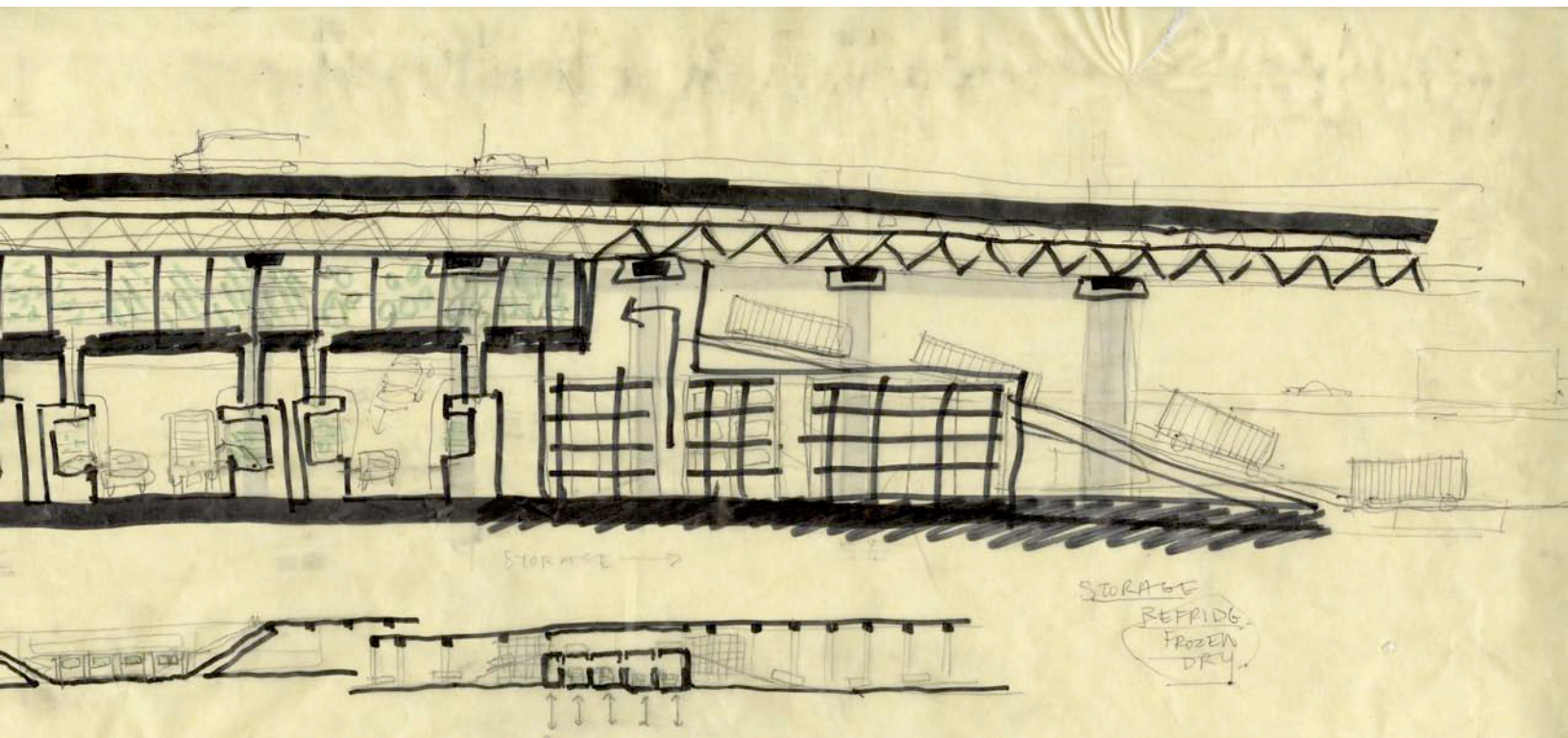
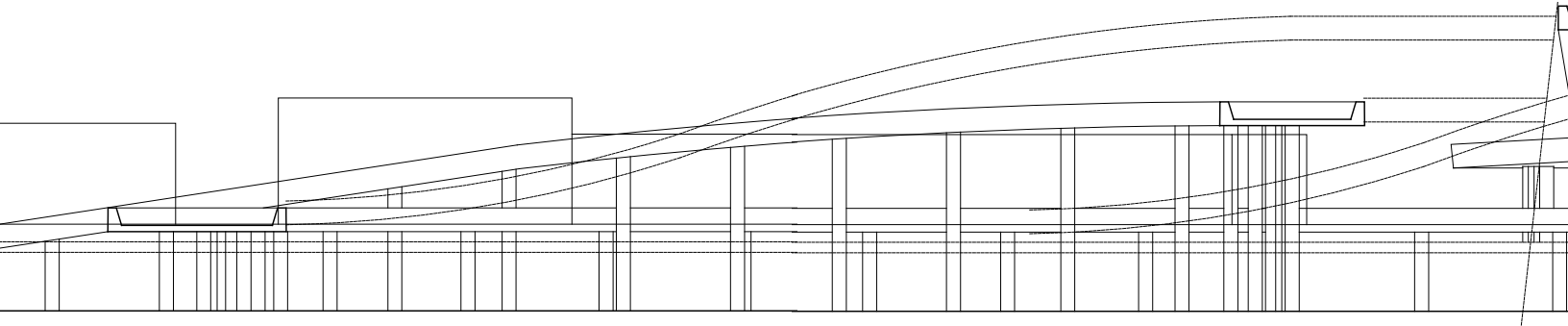


THE PEDESTRIAN NODE

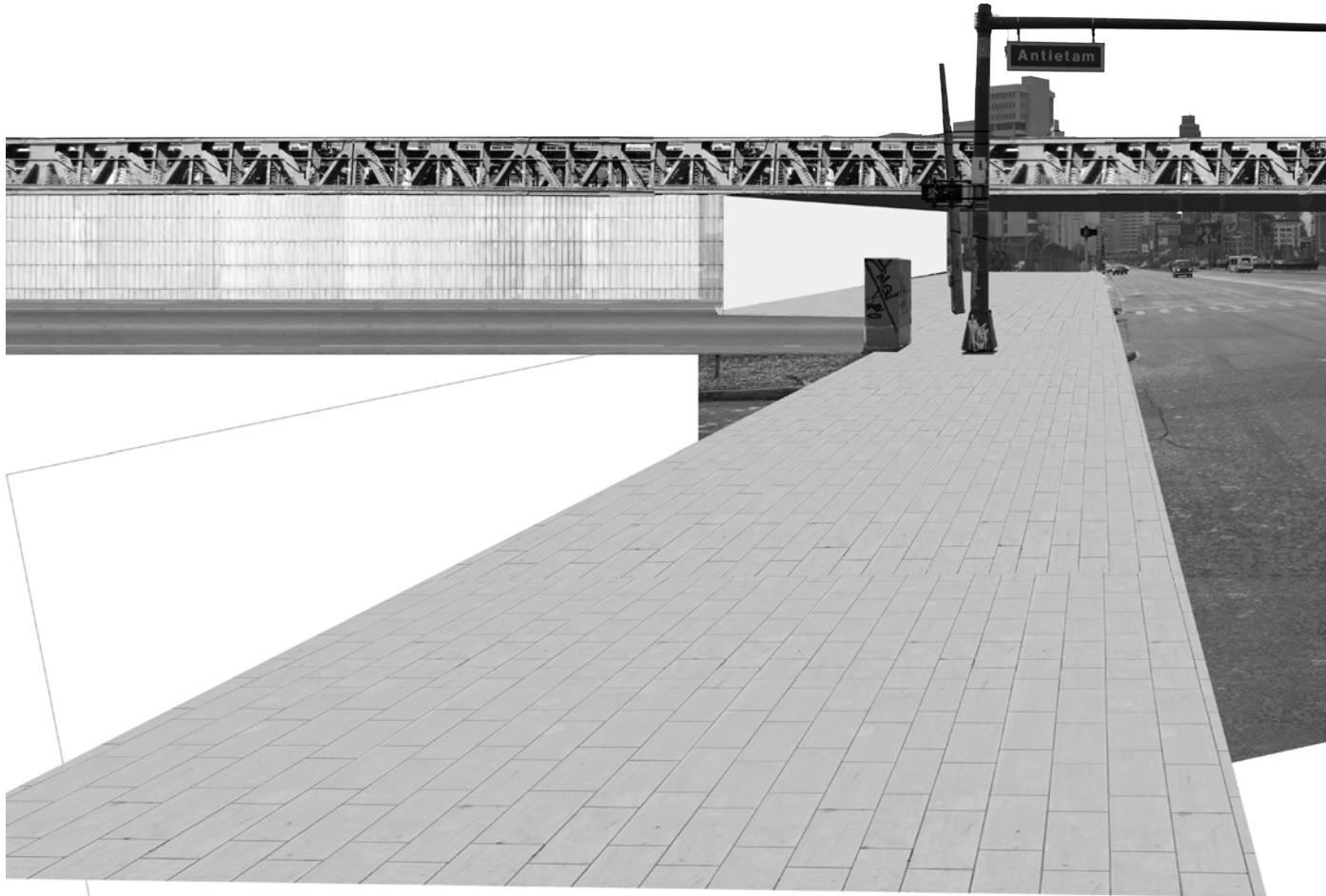
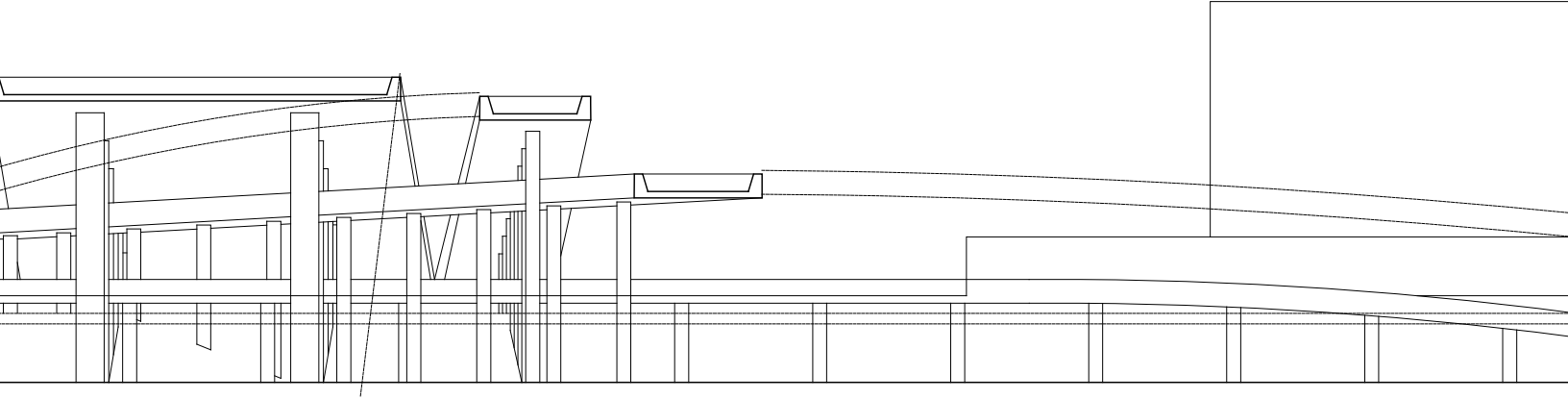


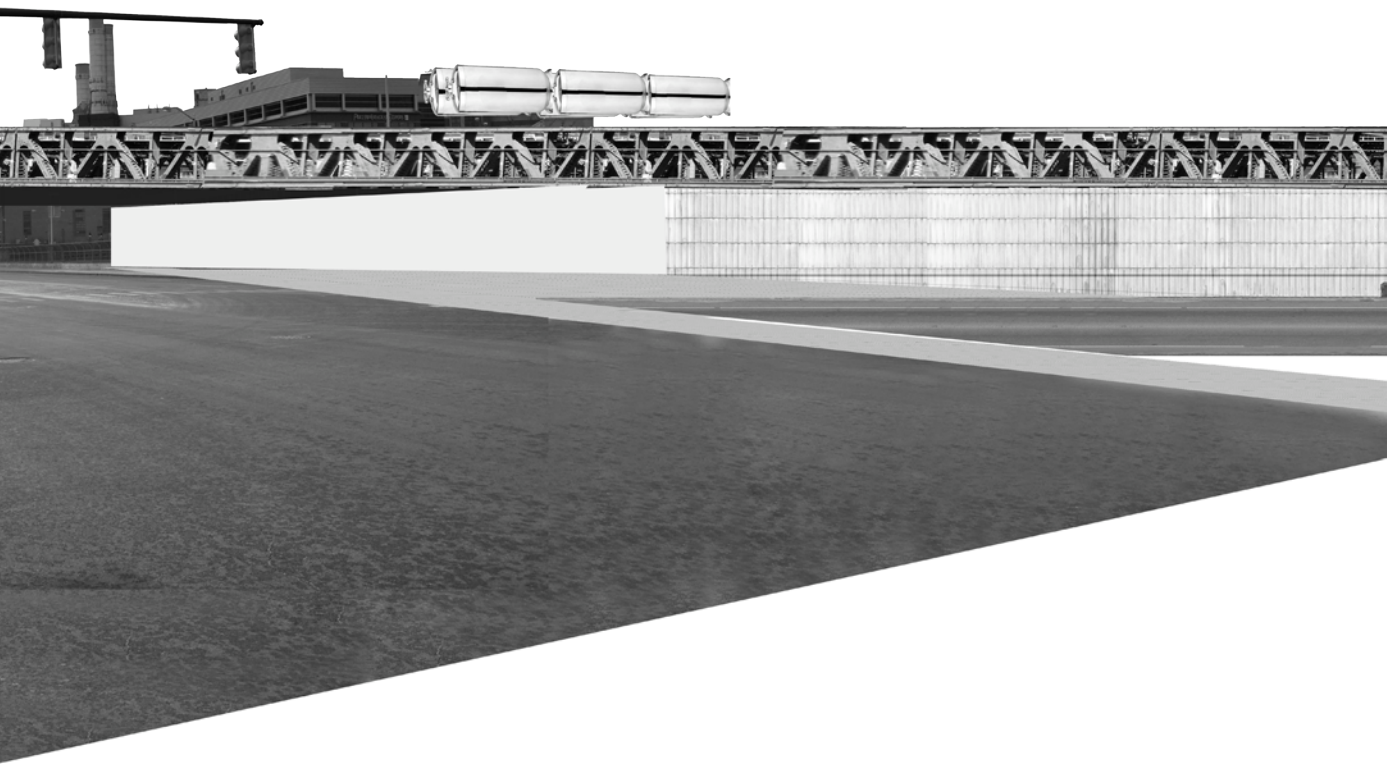
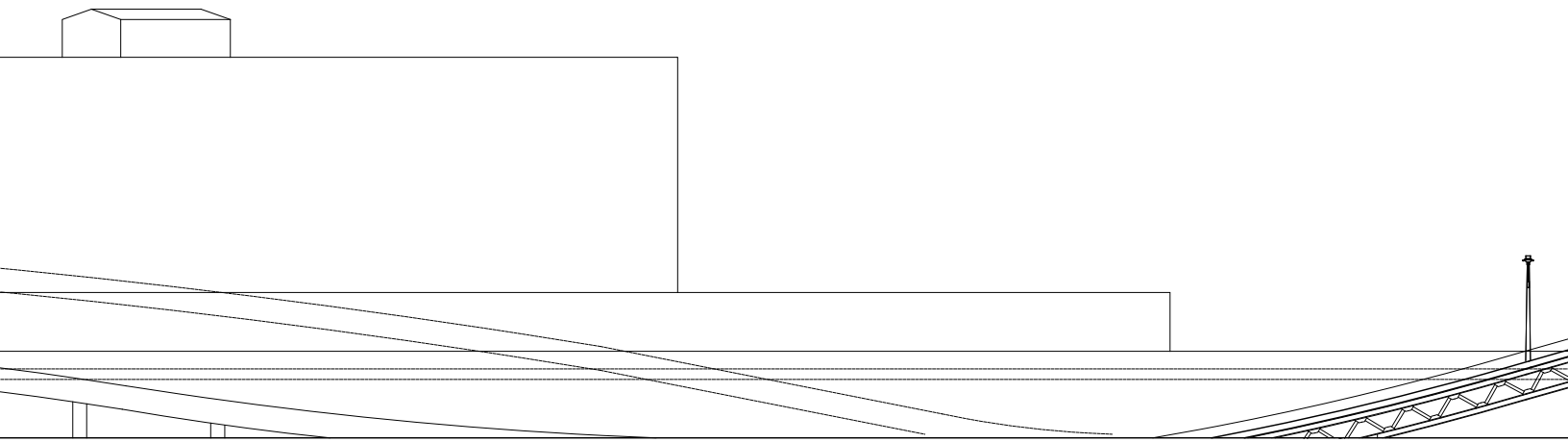




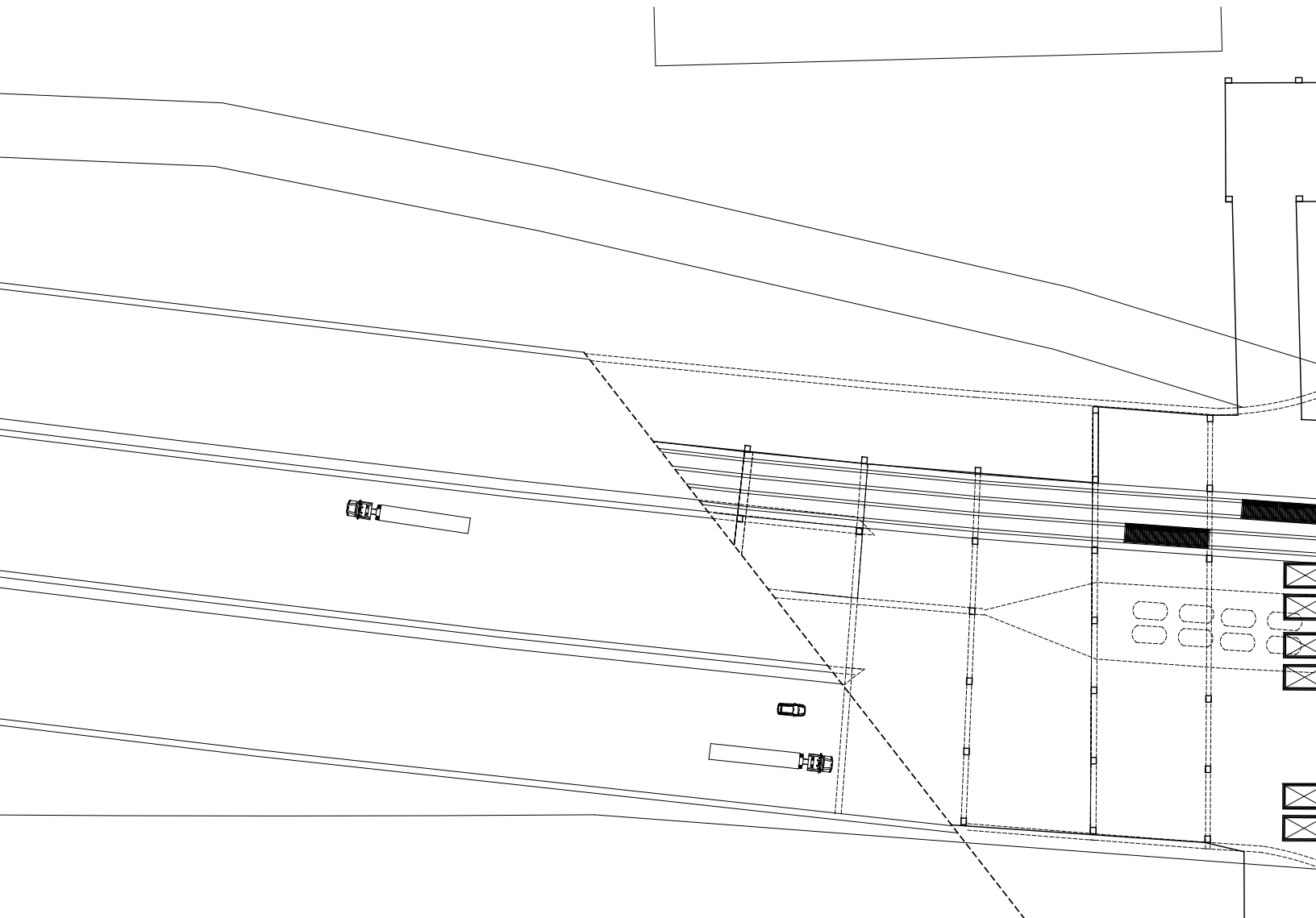
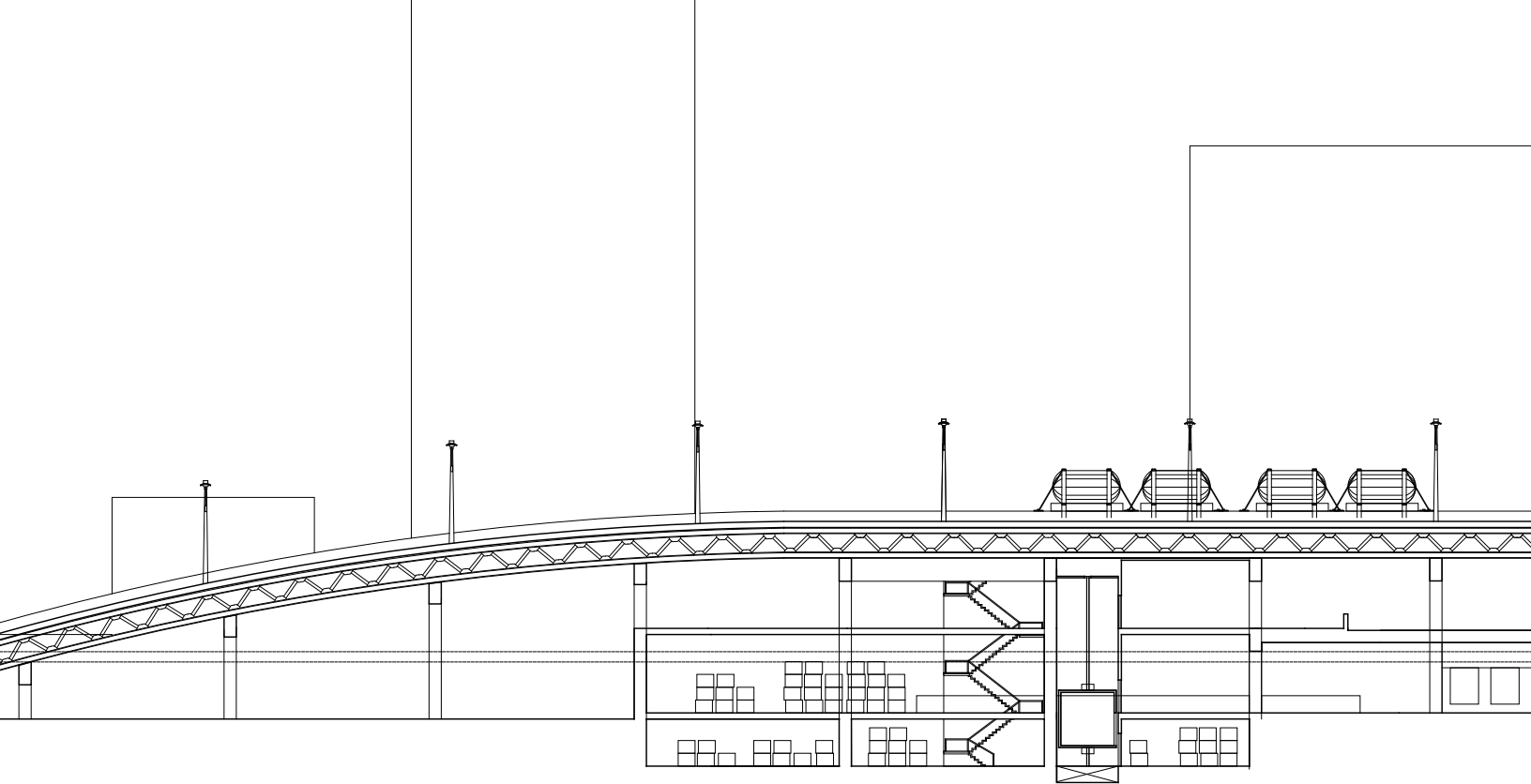


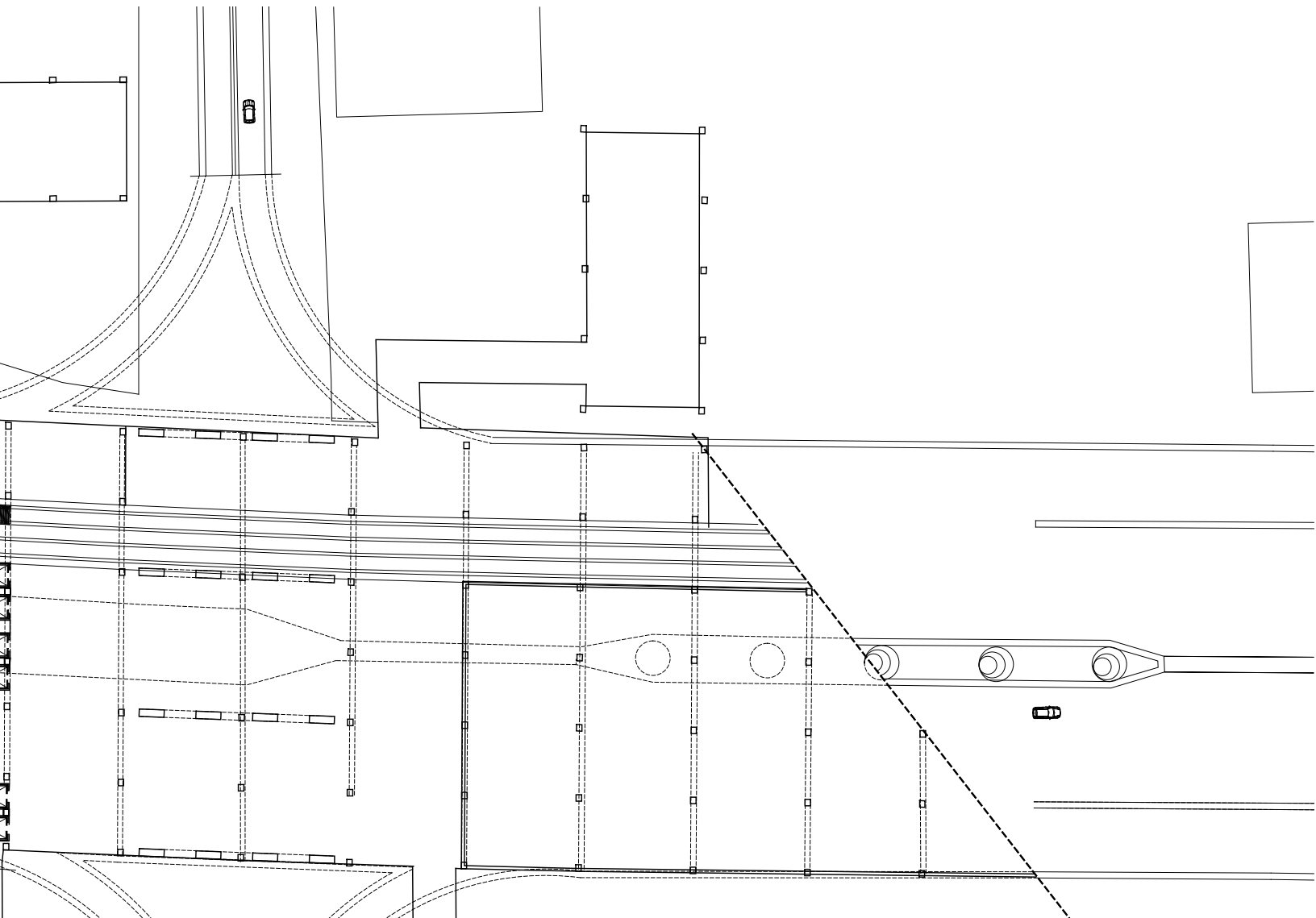
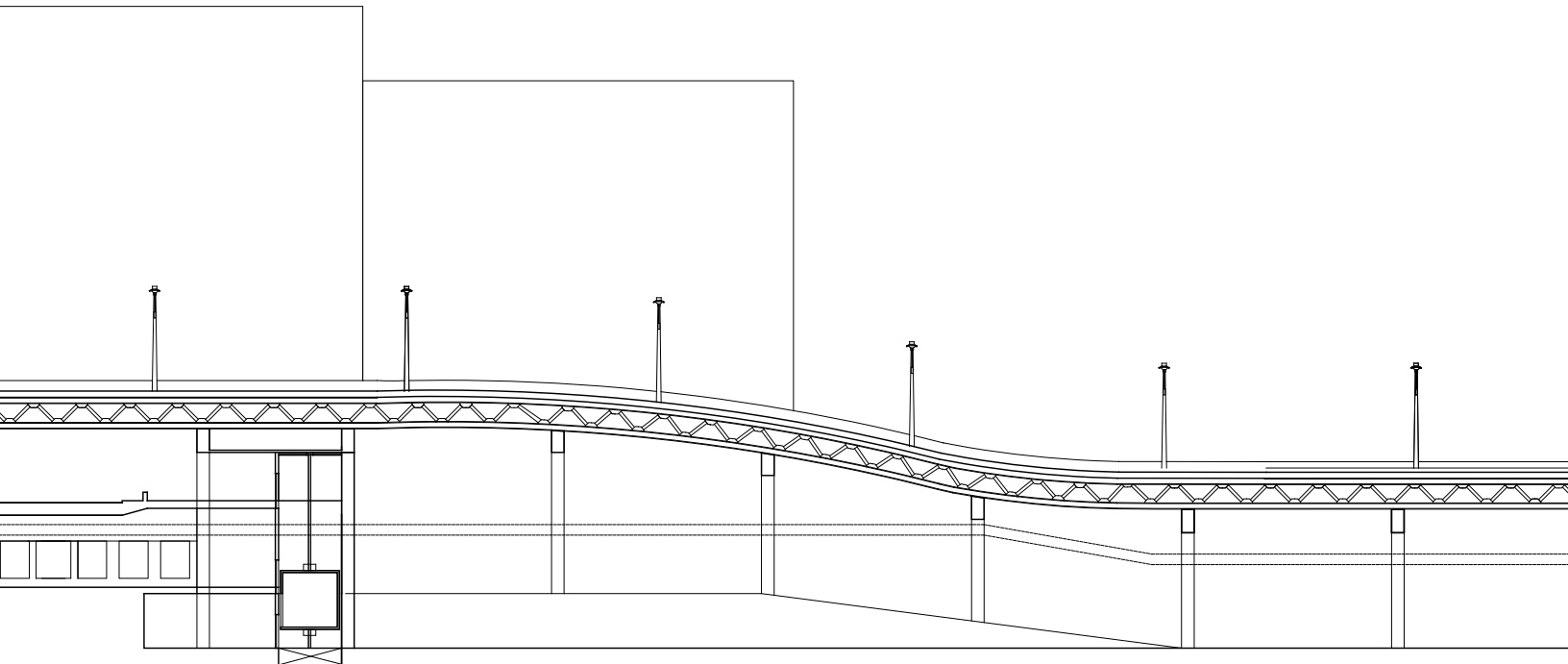
PROCESS SKETCHES

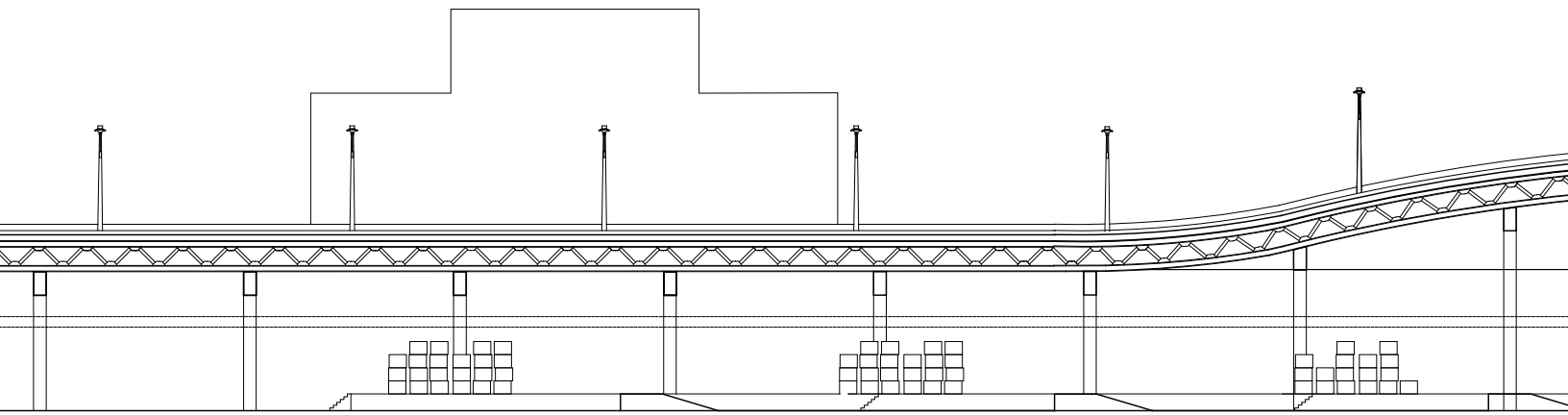


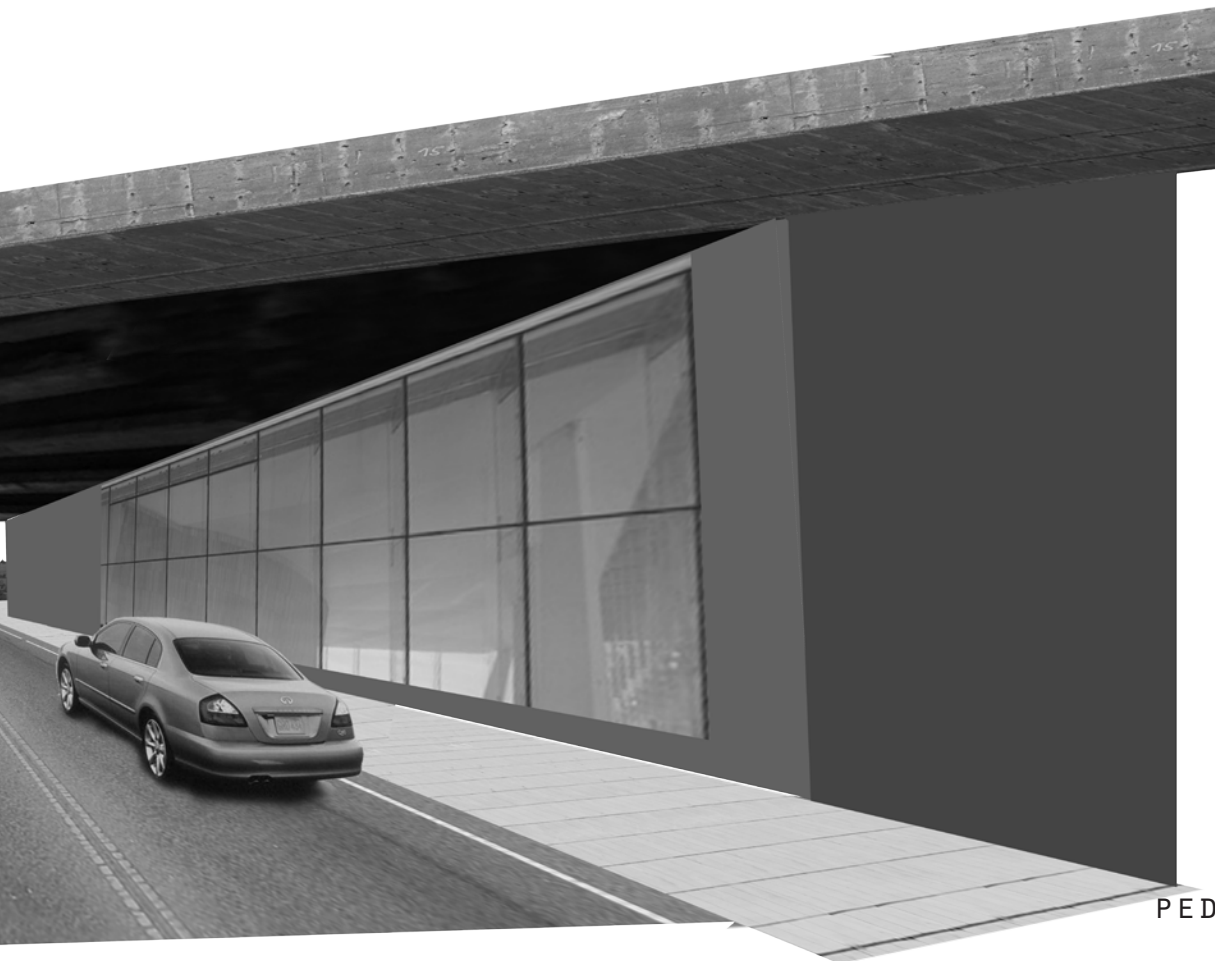
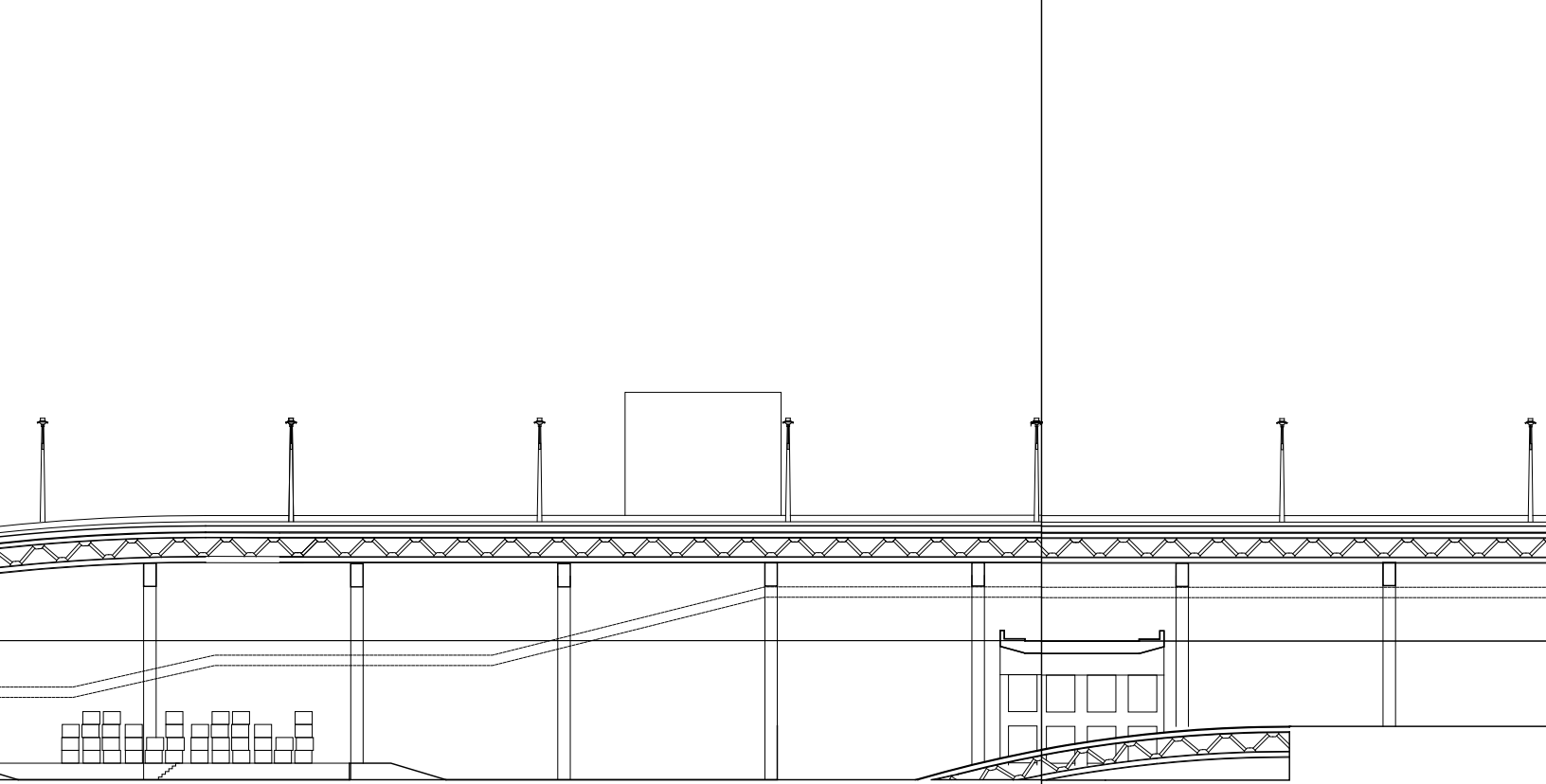


VIEW DOWNTOWN FROM GRATIOT AVE

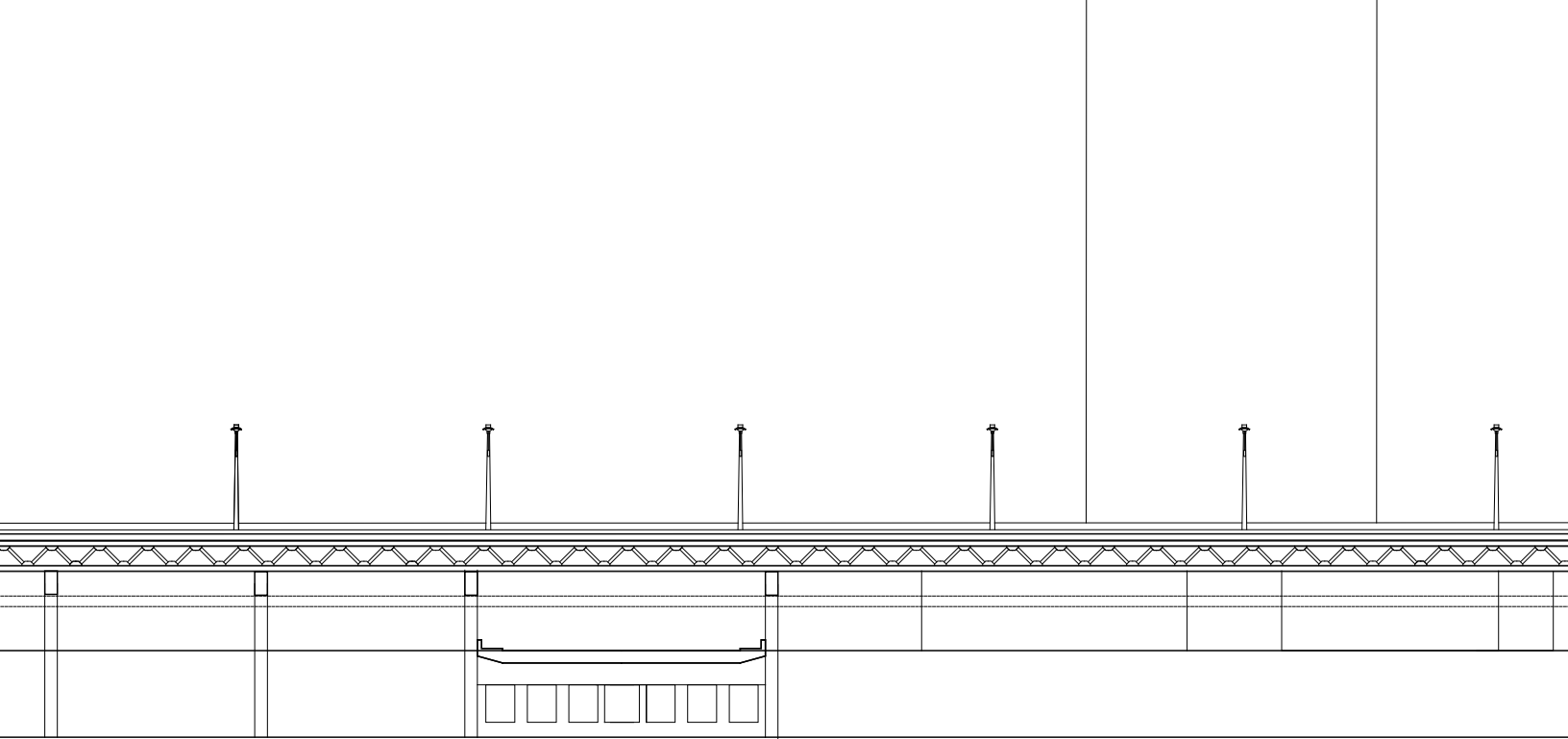




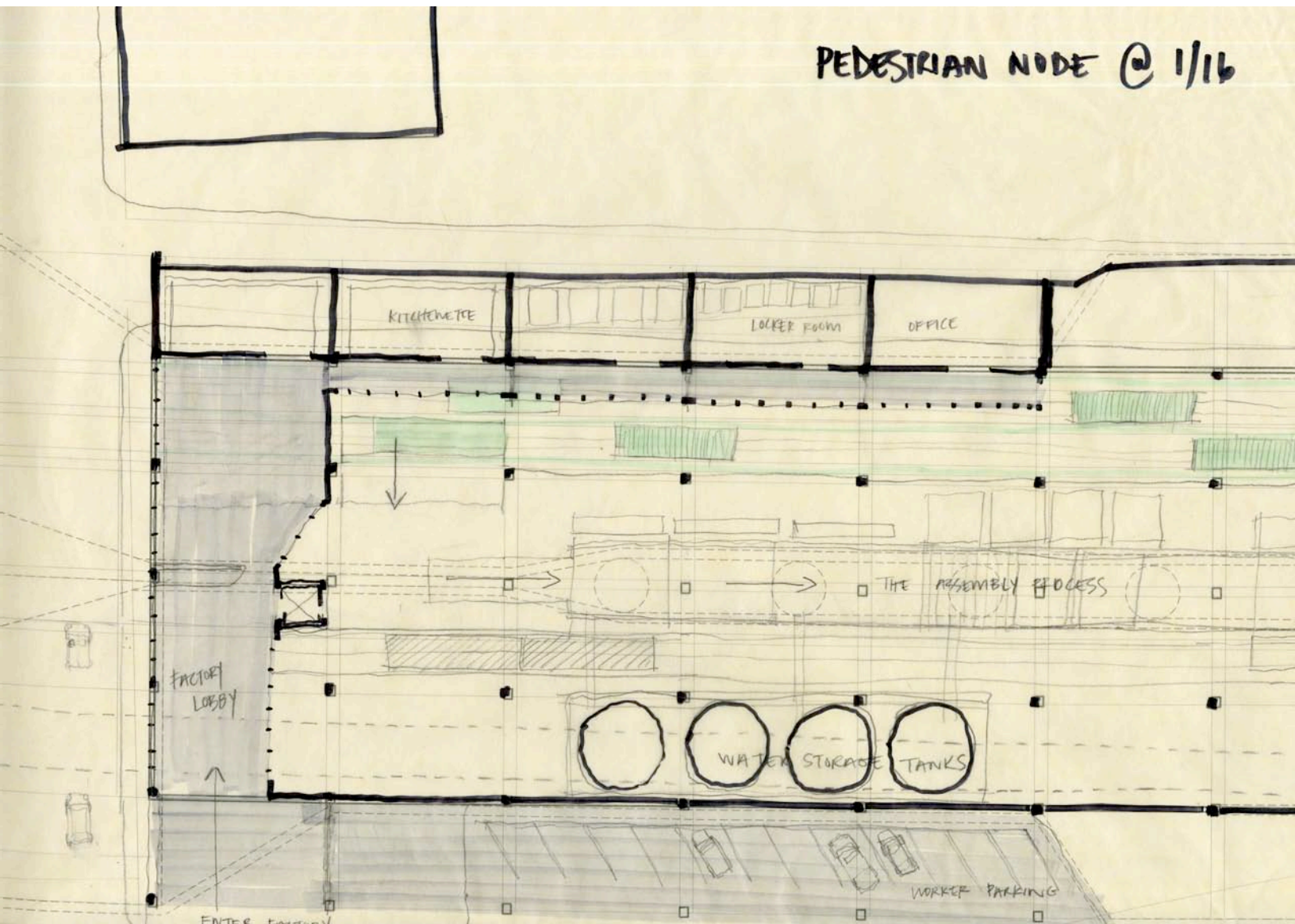


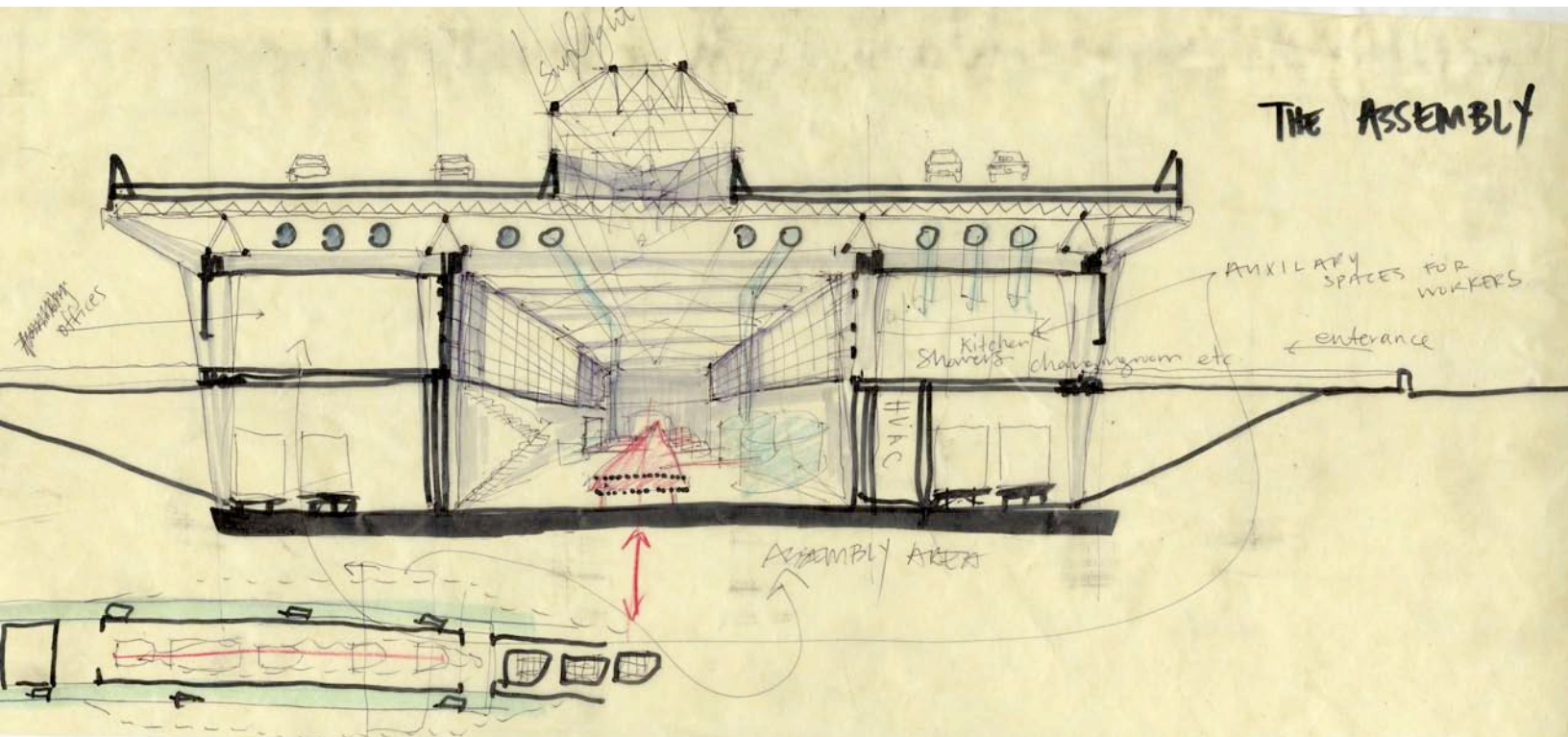
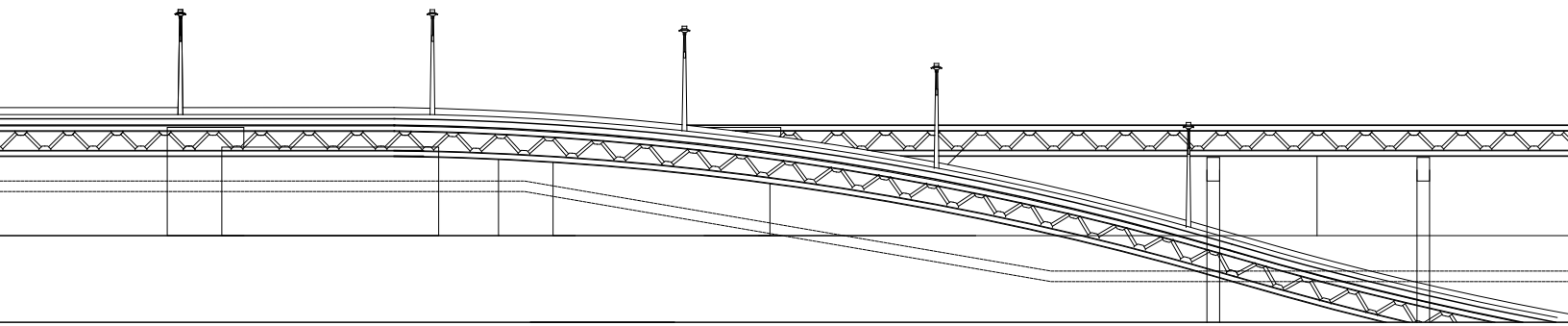


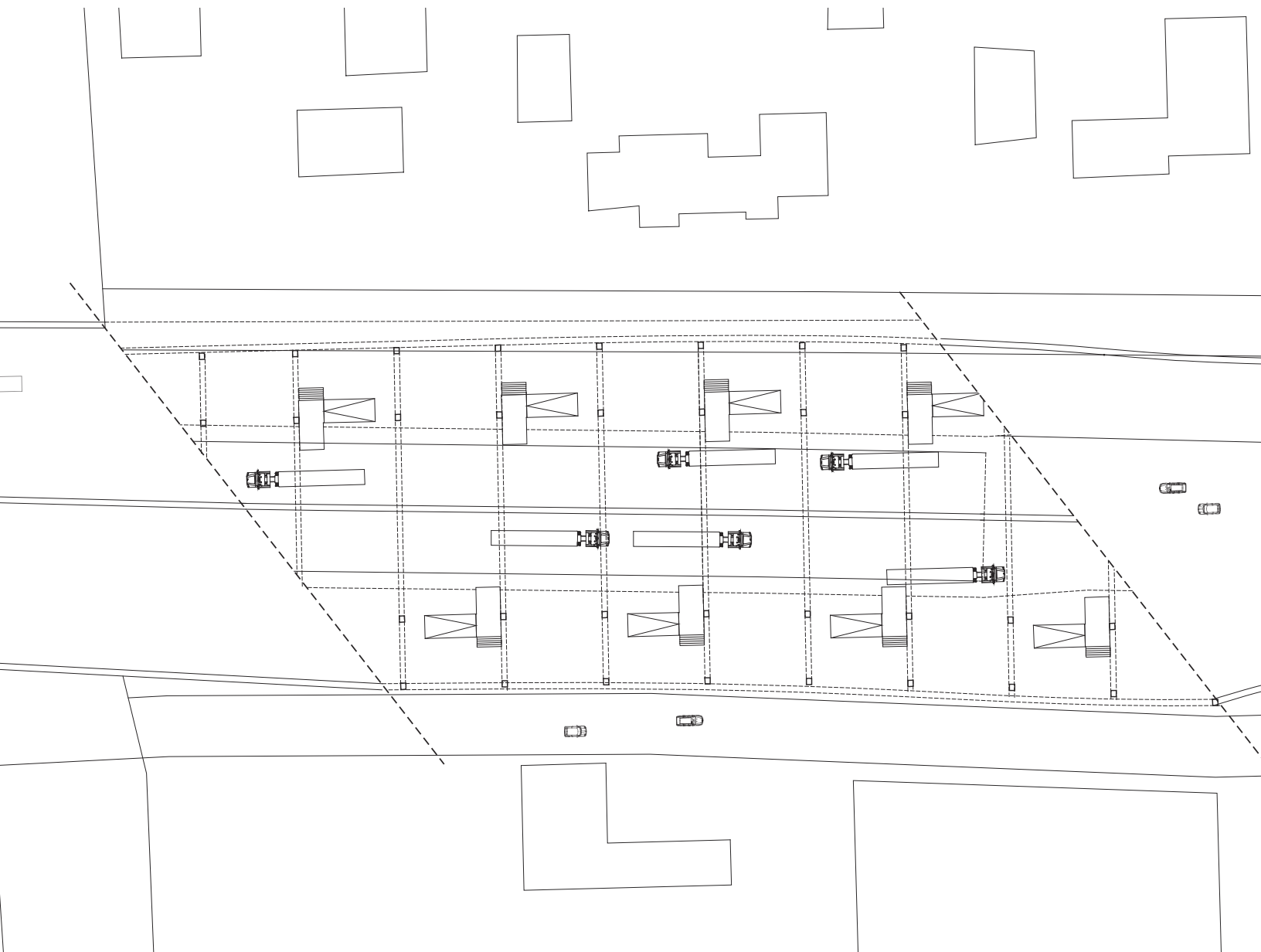
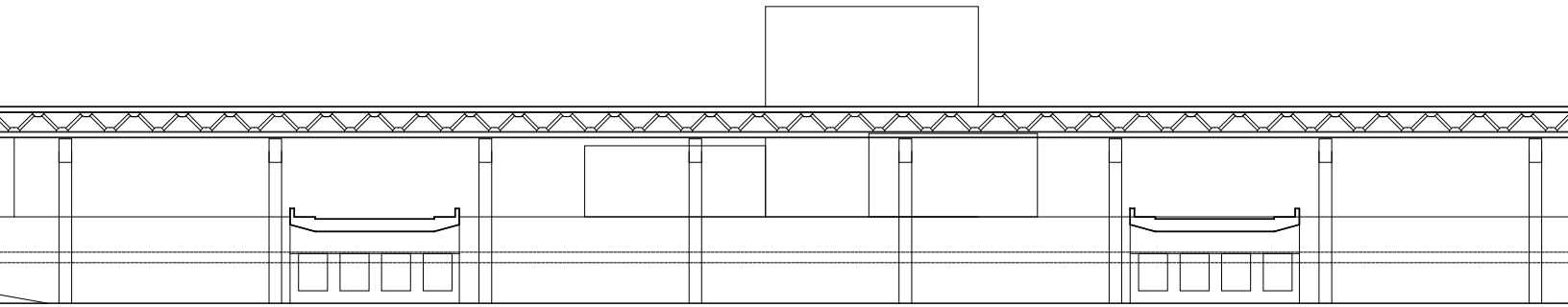
PEDESTRIAN VIEW

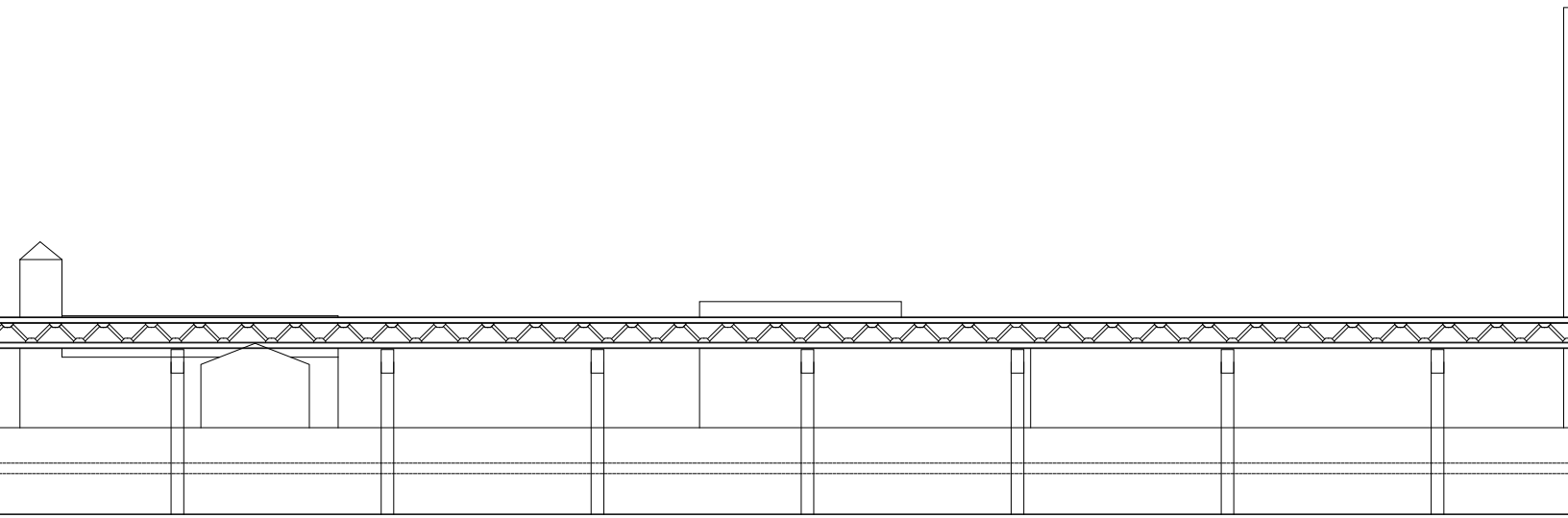


PEDESTRIAN NODE @ 1/16

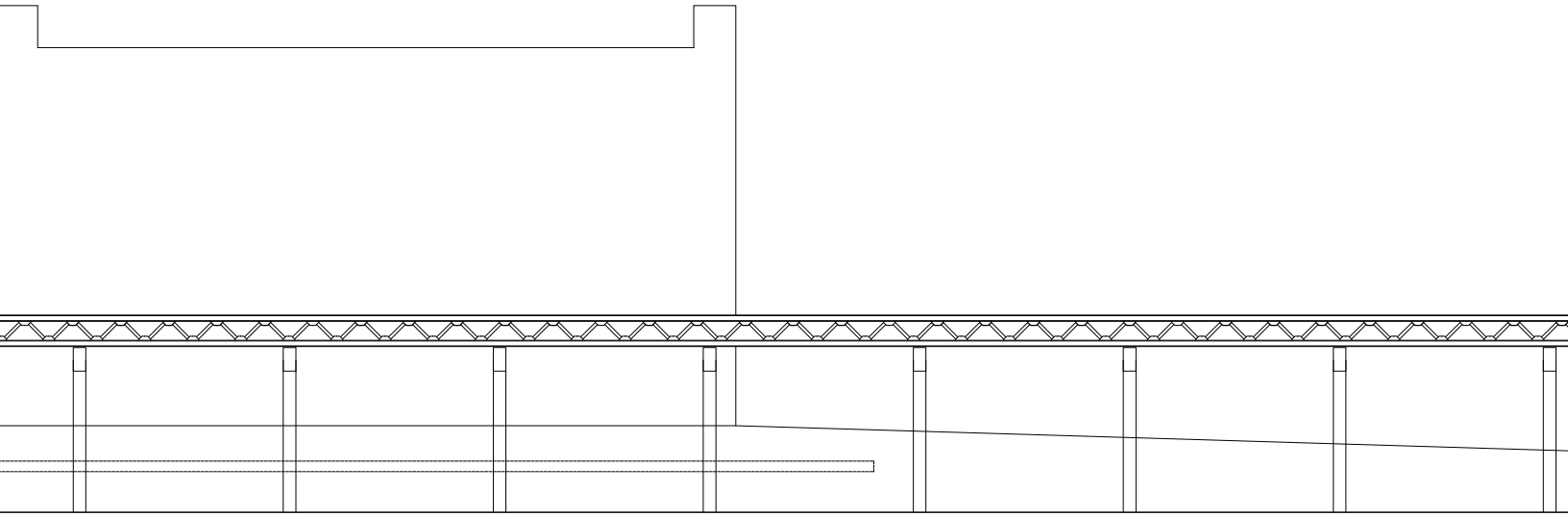


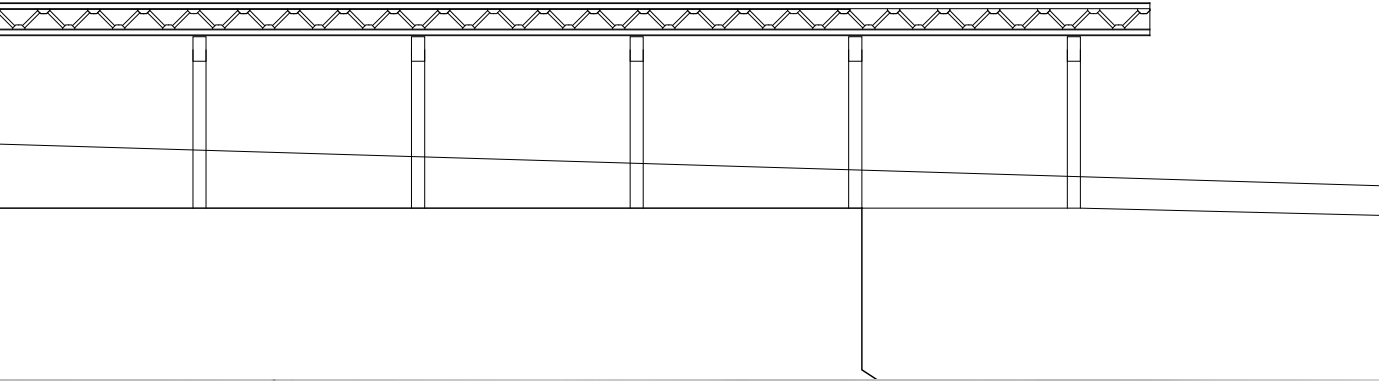






PLAN OF TRUCK IMPORT / EXPORT





VIEW FROM THE RIVERWALK LOOKING SOUTH