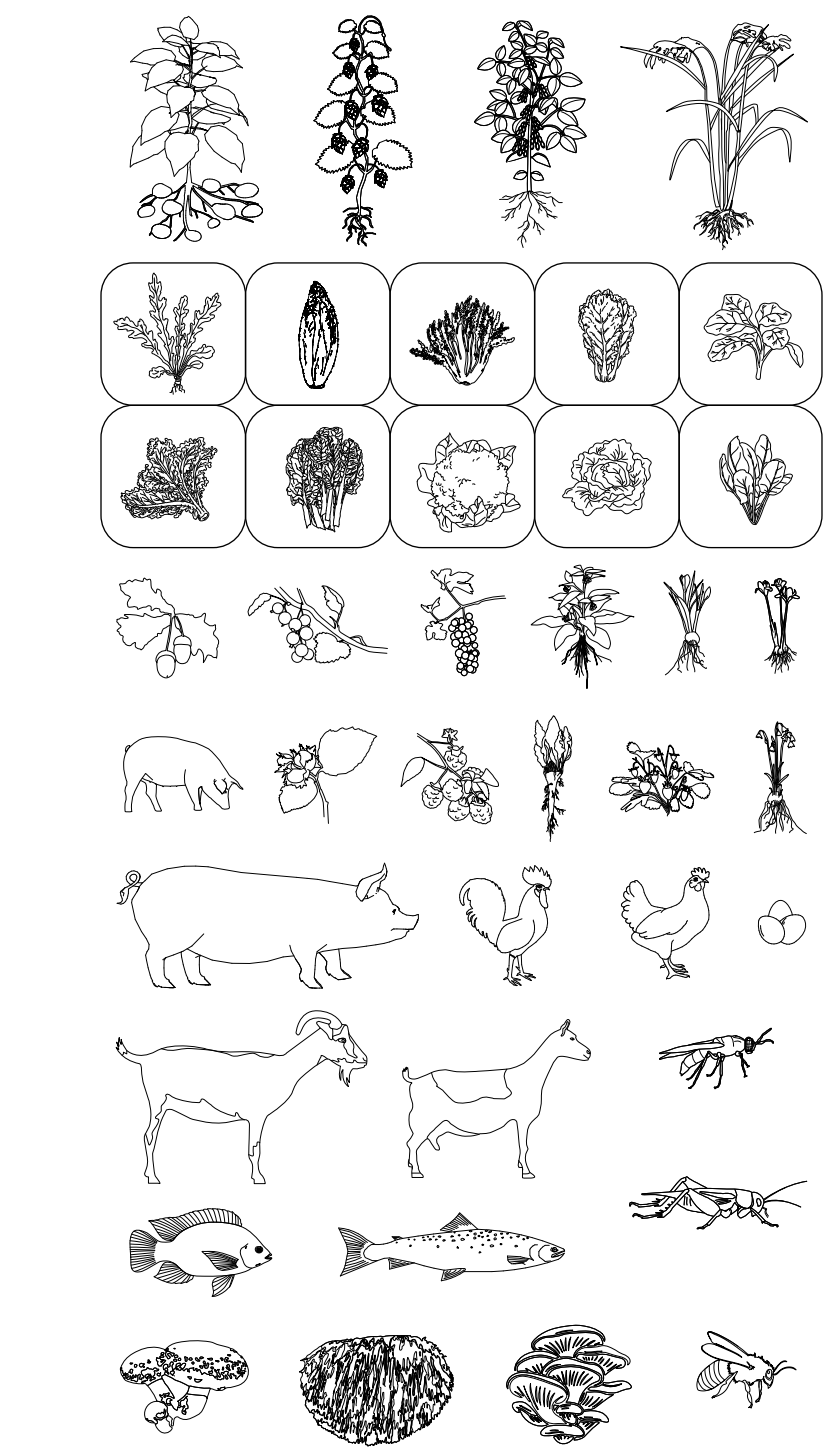


SLA

PHUOC NGUYEN



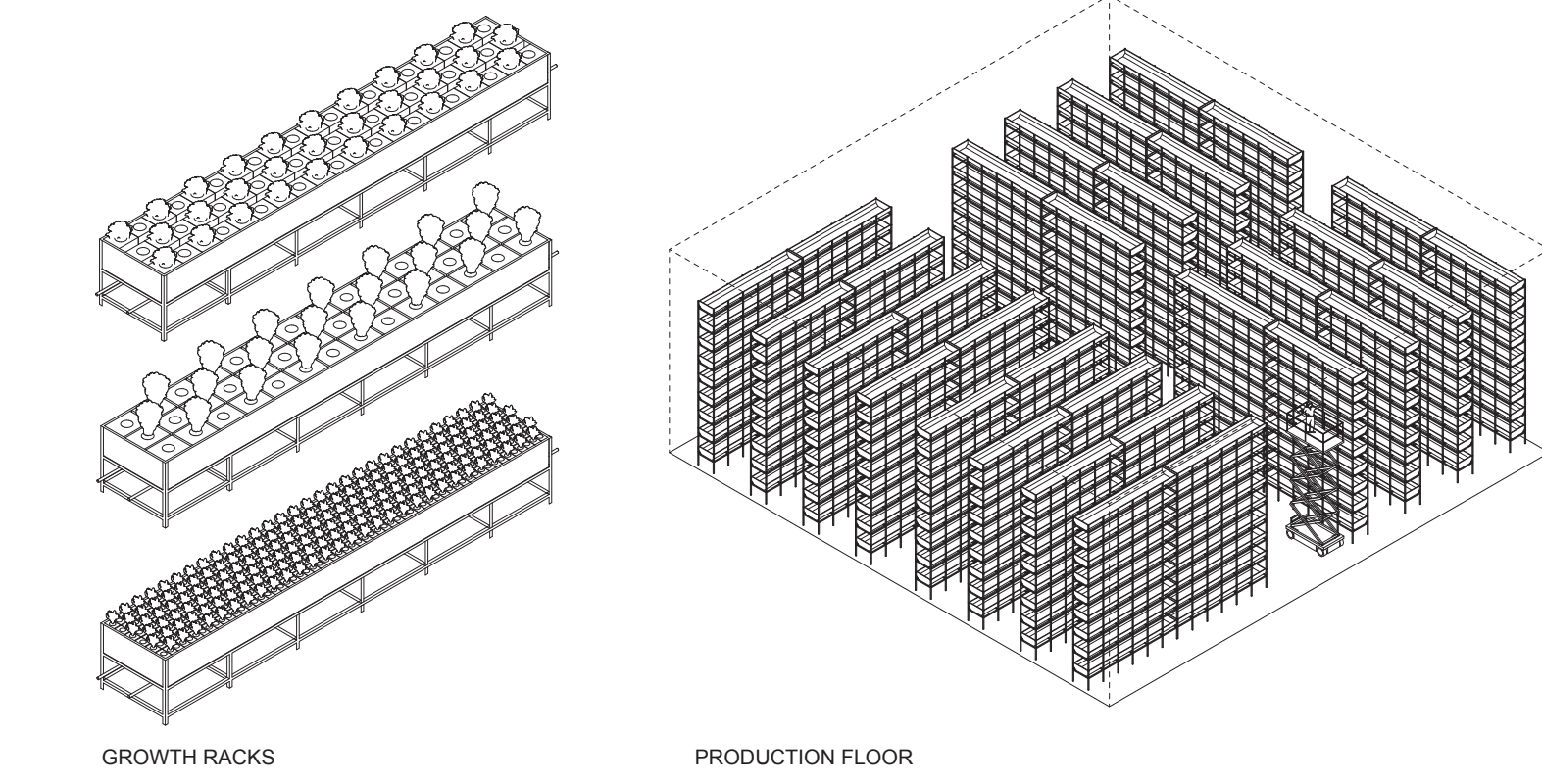
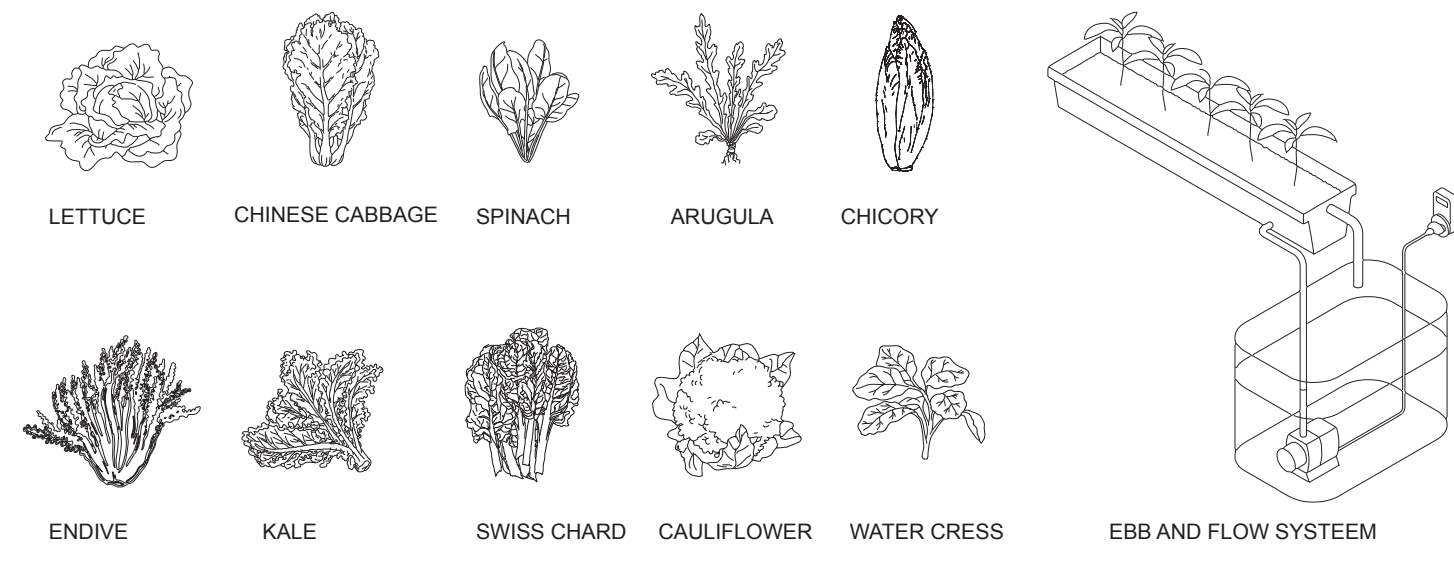
MENU

LEAFY GREEN FARM

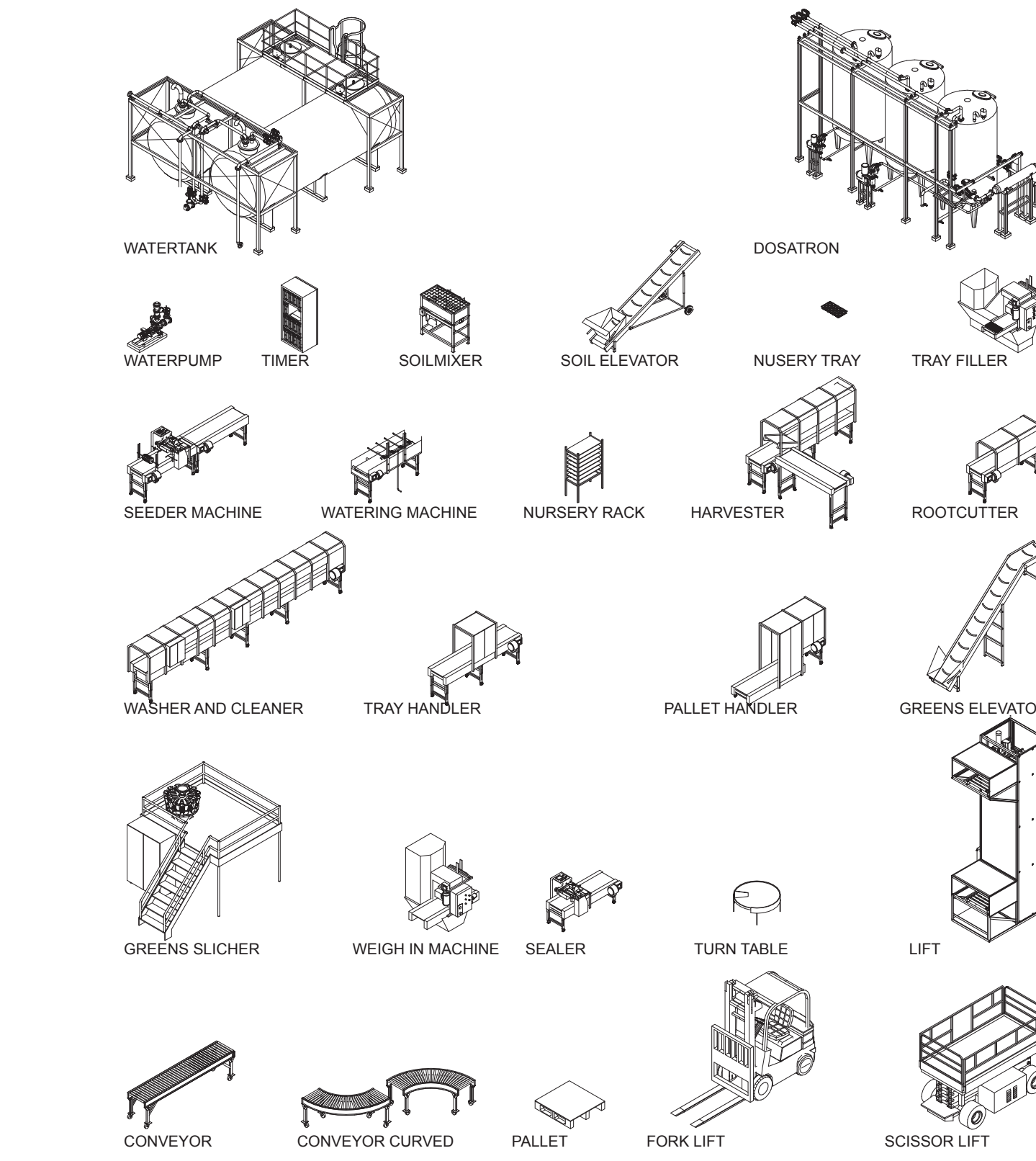
SLA is an automated vegetable farm using abc and flow system. SLA takes indoor vertical farming to a new level and productivity with minimal environmental impact and virtually zero because it is located in the city

The production floor of the farm has been pushed together to achieve the ultimate efficient growth and production process of leafy crops. This led to the production floor having a square shape. In order for the production to be carried out, the farm must have an input and an output. An input and output are antonyms of each other. To make them belong together, the floor plan layouts are arranged symmetrically. The symmetry radiates both on the facade and roof. The sloping profiled facade cladding is placed mirrored from each other over the entire building, so that it is finished with a mitred finish on all sides and corners.

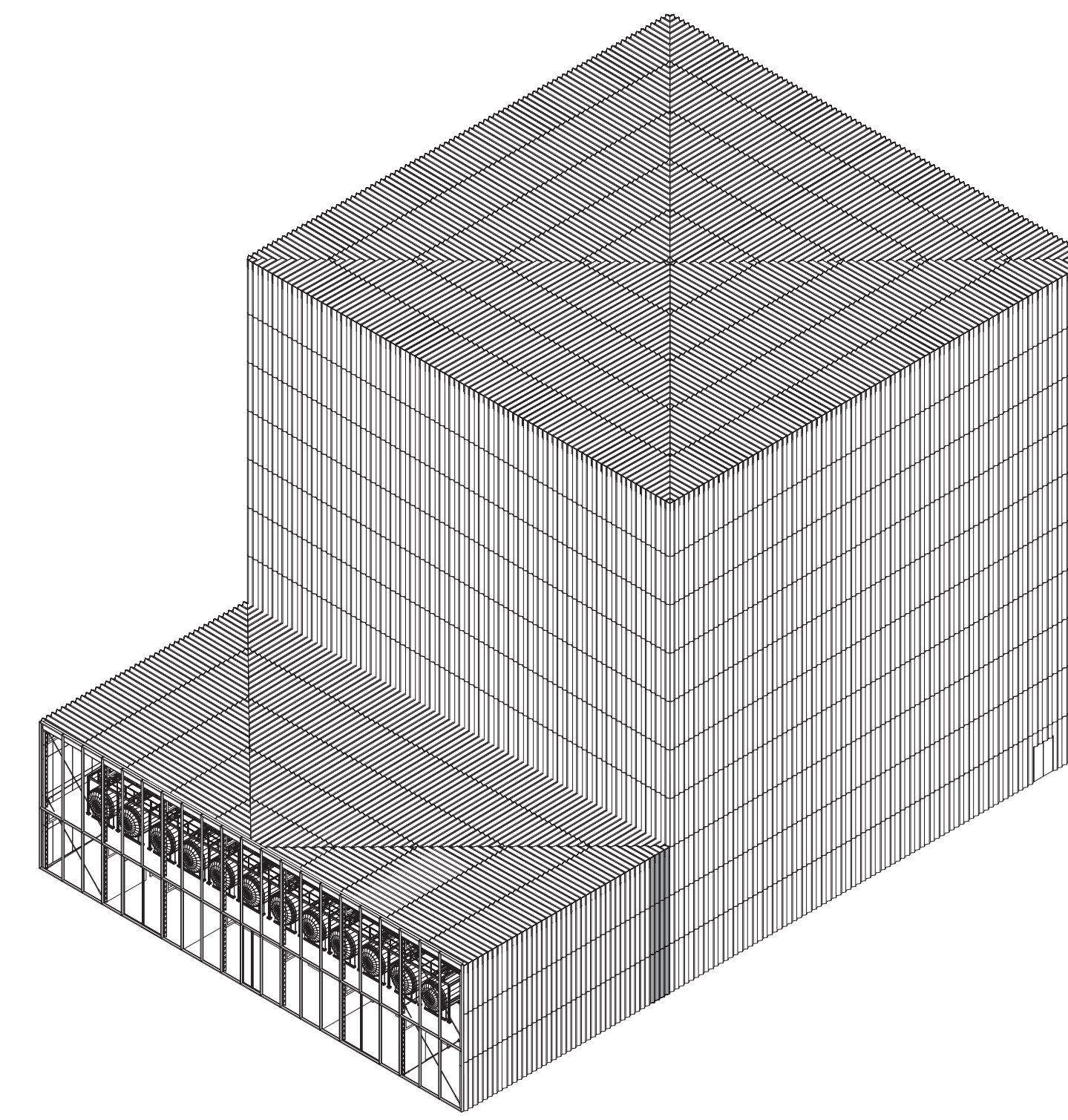
The farm consists of a total of 2380 growth racks of 1.2 meters by 6 meters. This allows the farm to produce approximately 364,000 kg of vegetables per year. In addition, SLA cuts and packs the leafy crop into a fresh salable product as short chains for the city. This means that when SLA sells mixed salads of 150 grams for 1.80 euros, the farm generates a turnover of approximately 2.4 million euros per year.



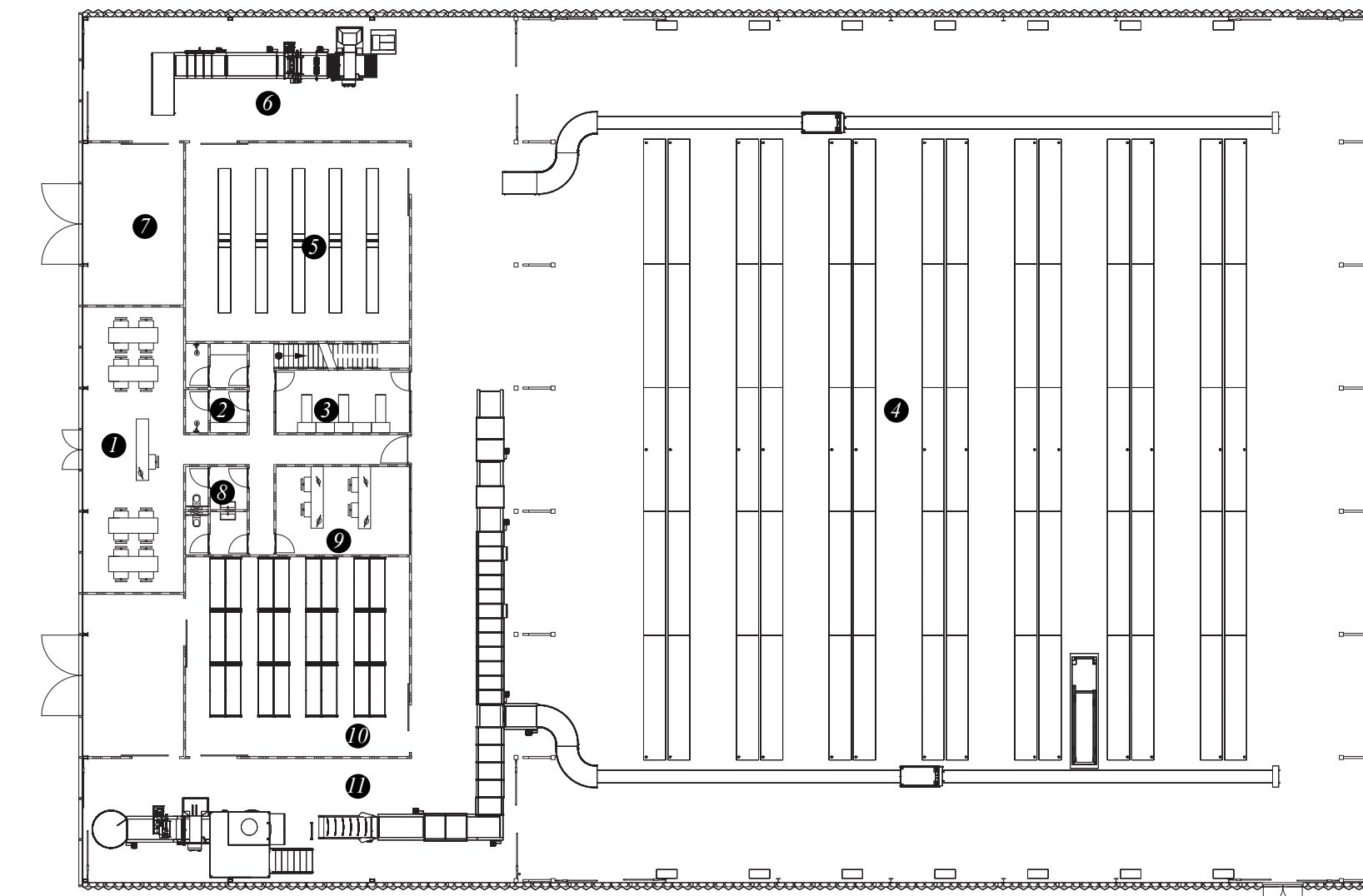
PRODUCTION FLOOR



TECHNOLOGY

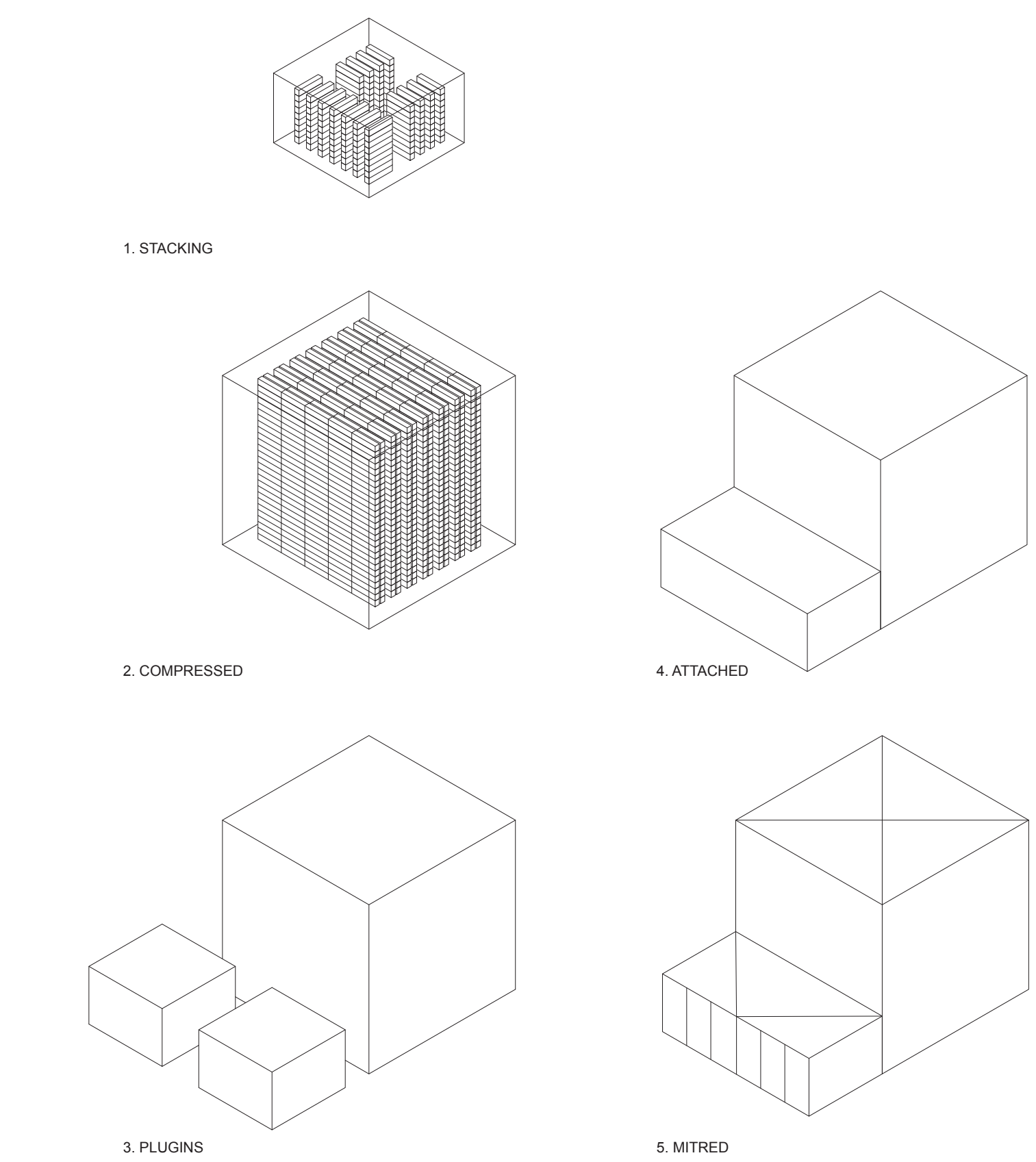


ARCHITECTURE

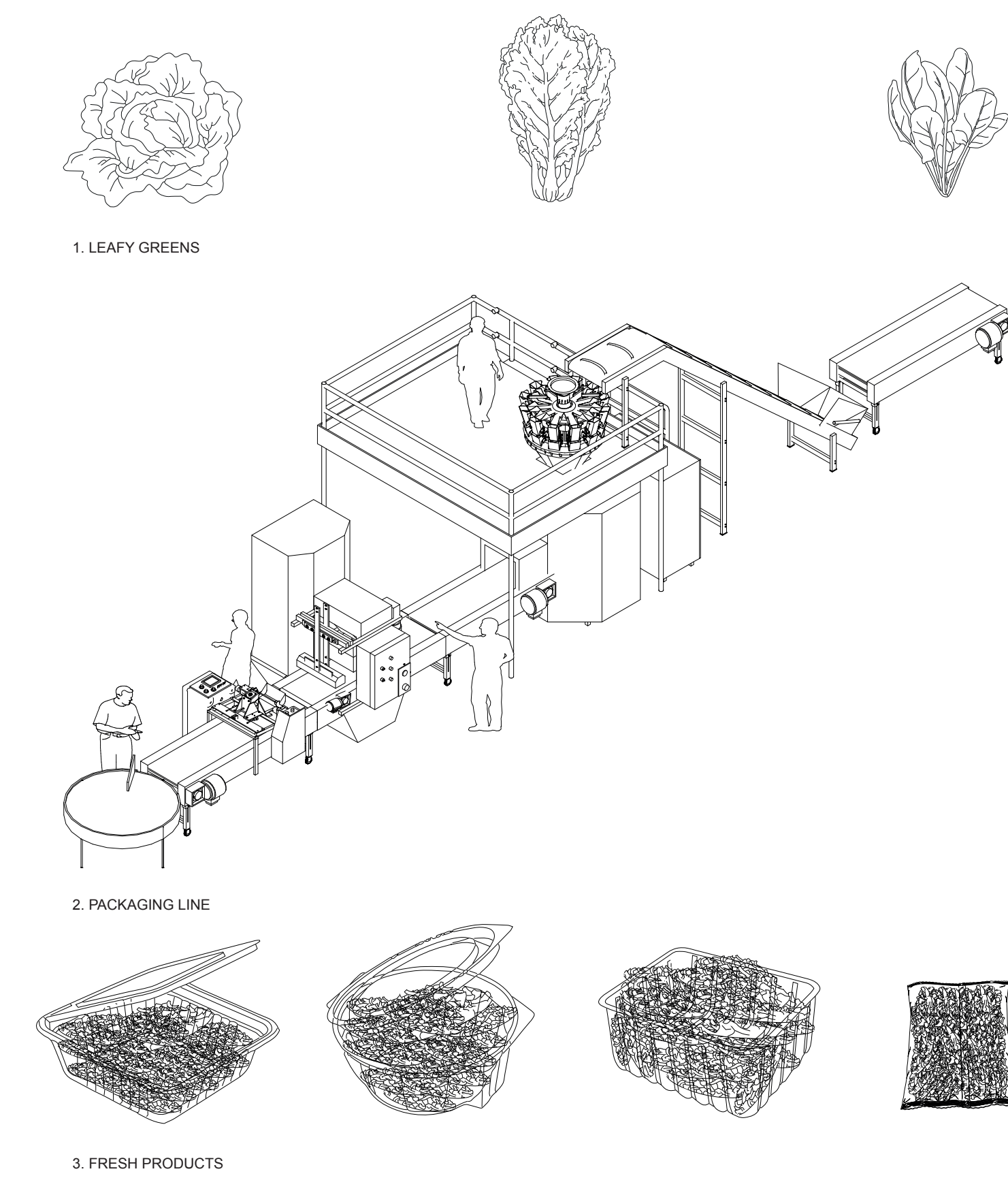


- 1 ENTRANCE/CANTEEN
- 2 CHANGING ROOM
- 3 SANITATION ROOM
- 4 PRODUCTION FLOOR
- 5 NURSERY ROOM
- 6 SEEDLING/GERMINATION
- 7 IMPORT
- 8 TOILETS
- 9 OFFICE
- 10 COLD STORAGE
- 11 PACKAGING
- 12 EXPORT

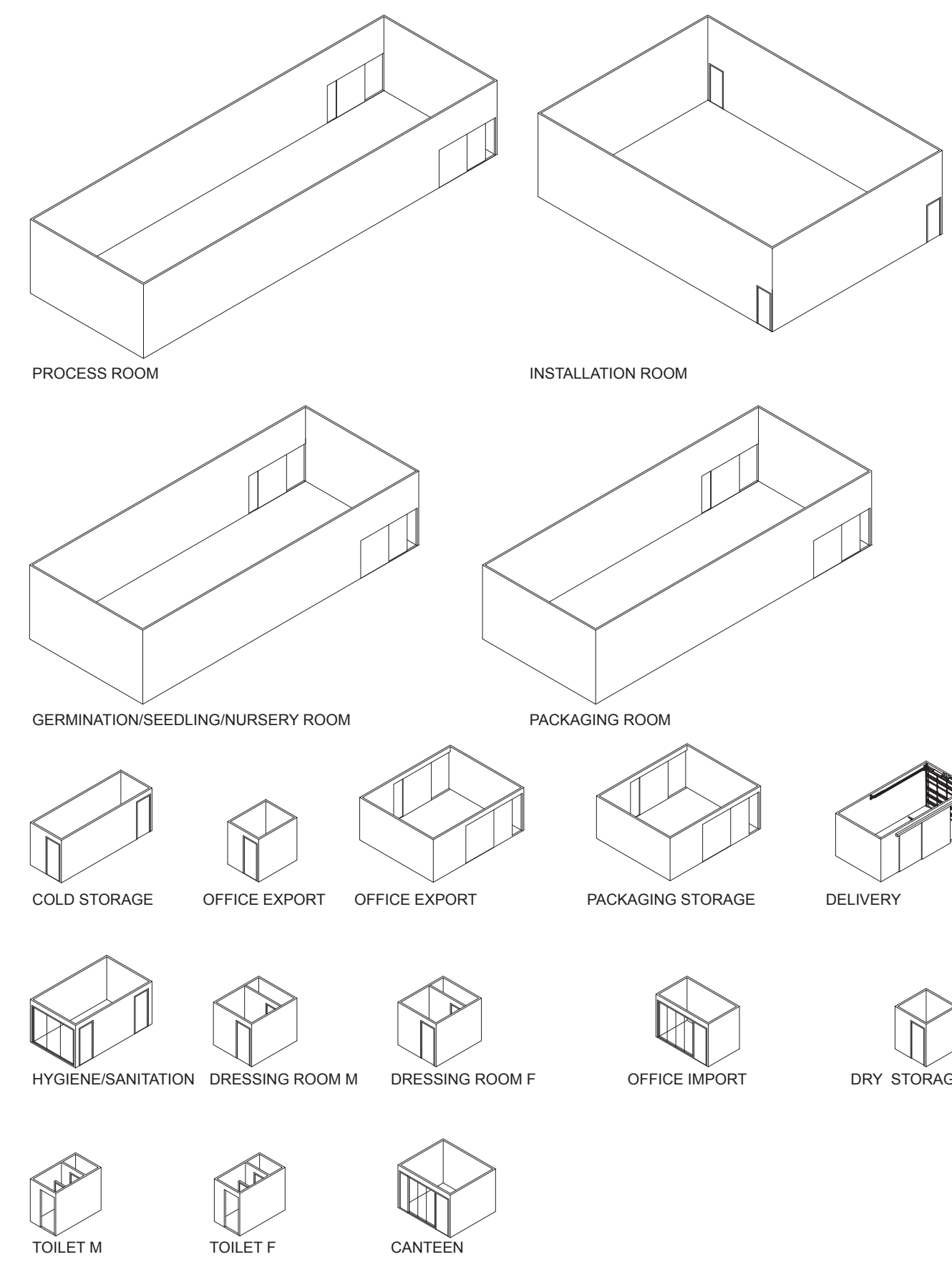
FLOOR PLAN 00



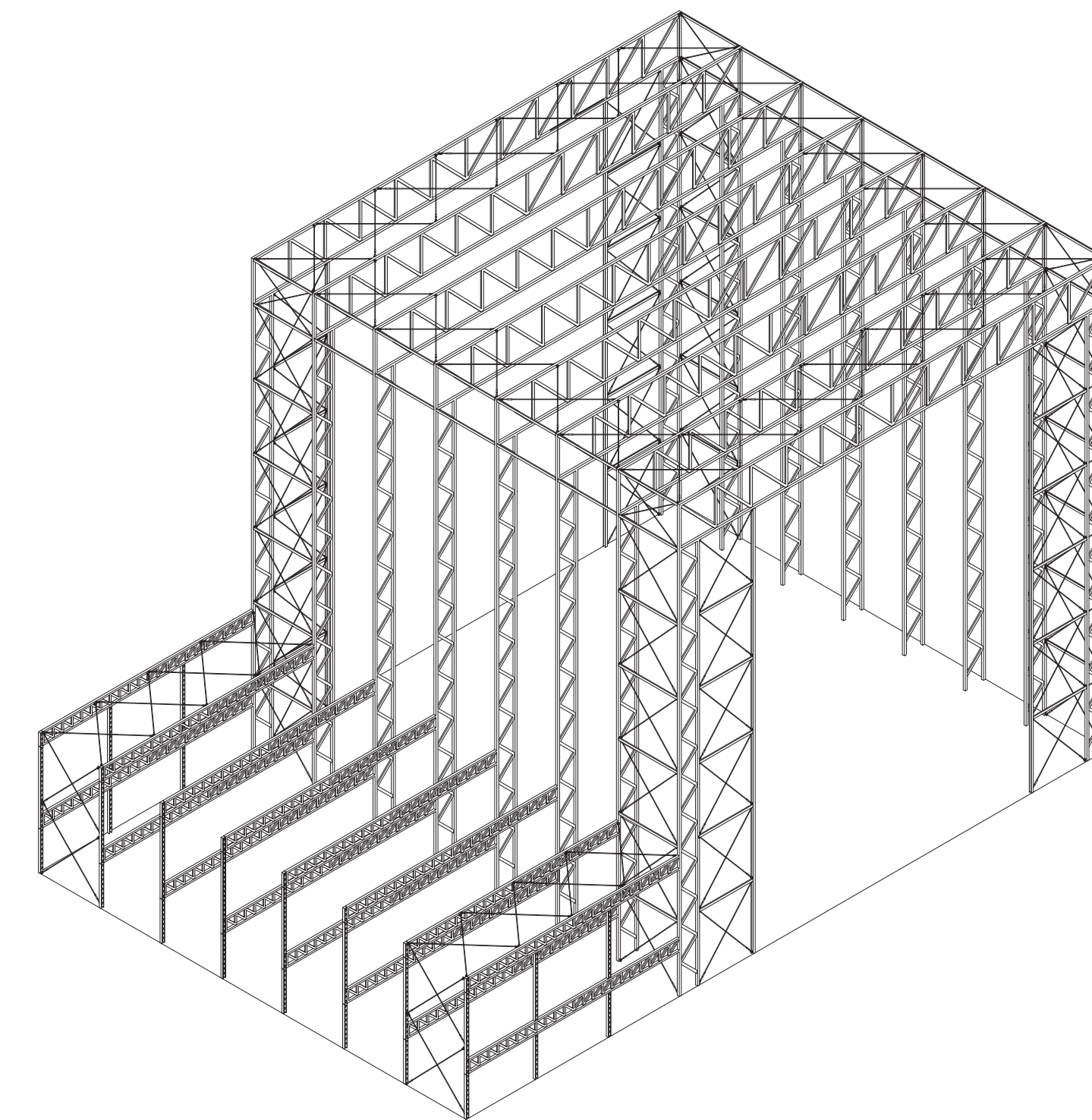
CONCEPT



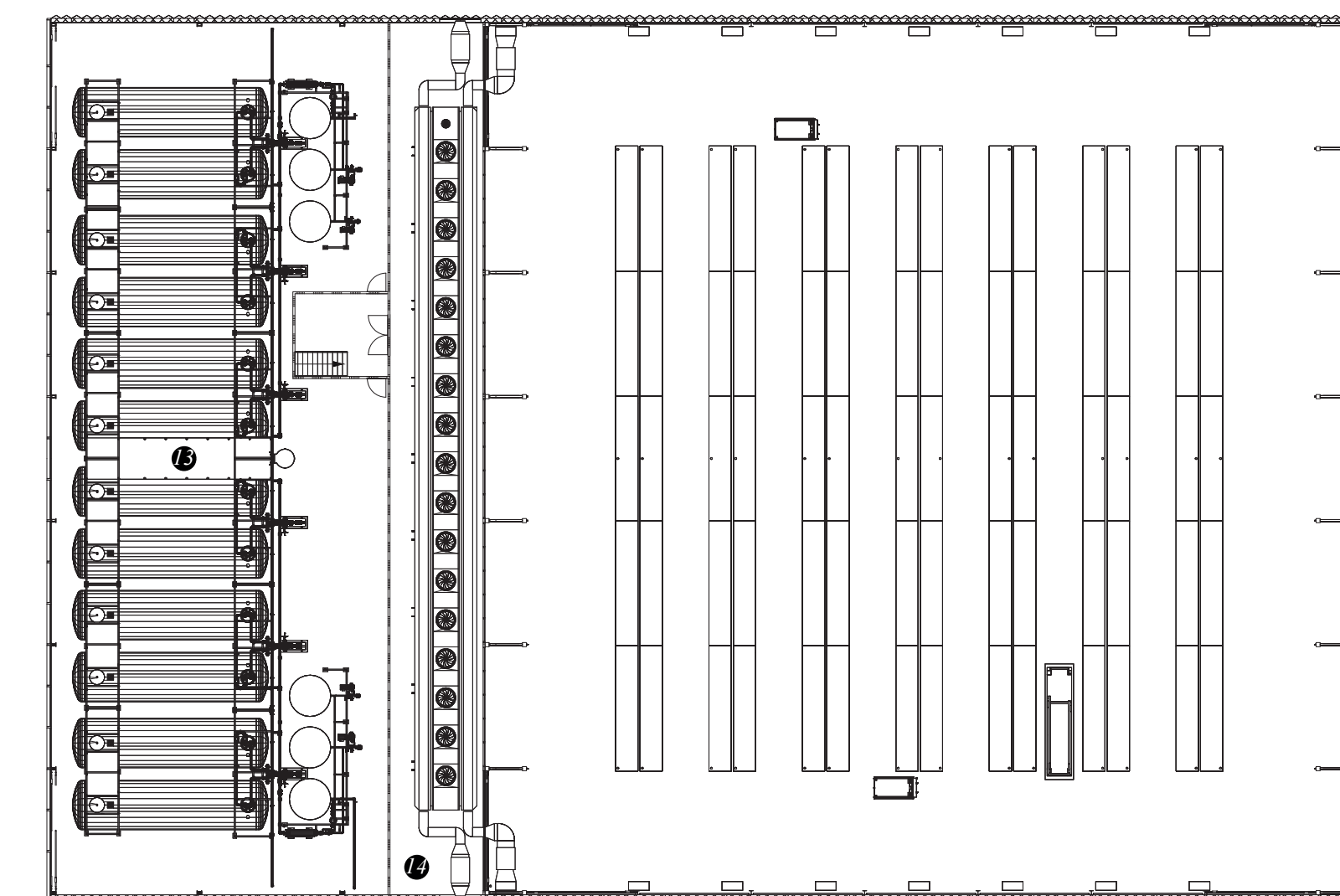
PRODUCT SYNERGY



PROCESSING & PACKAGING

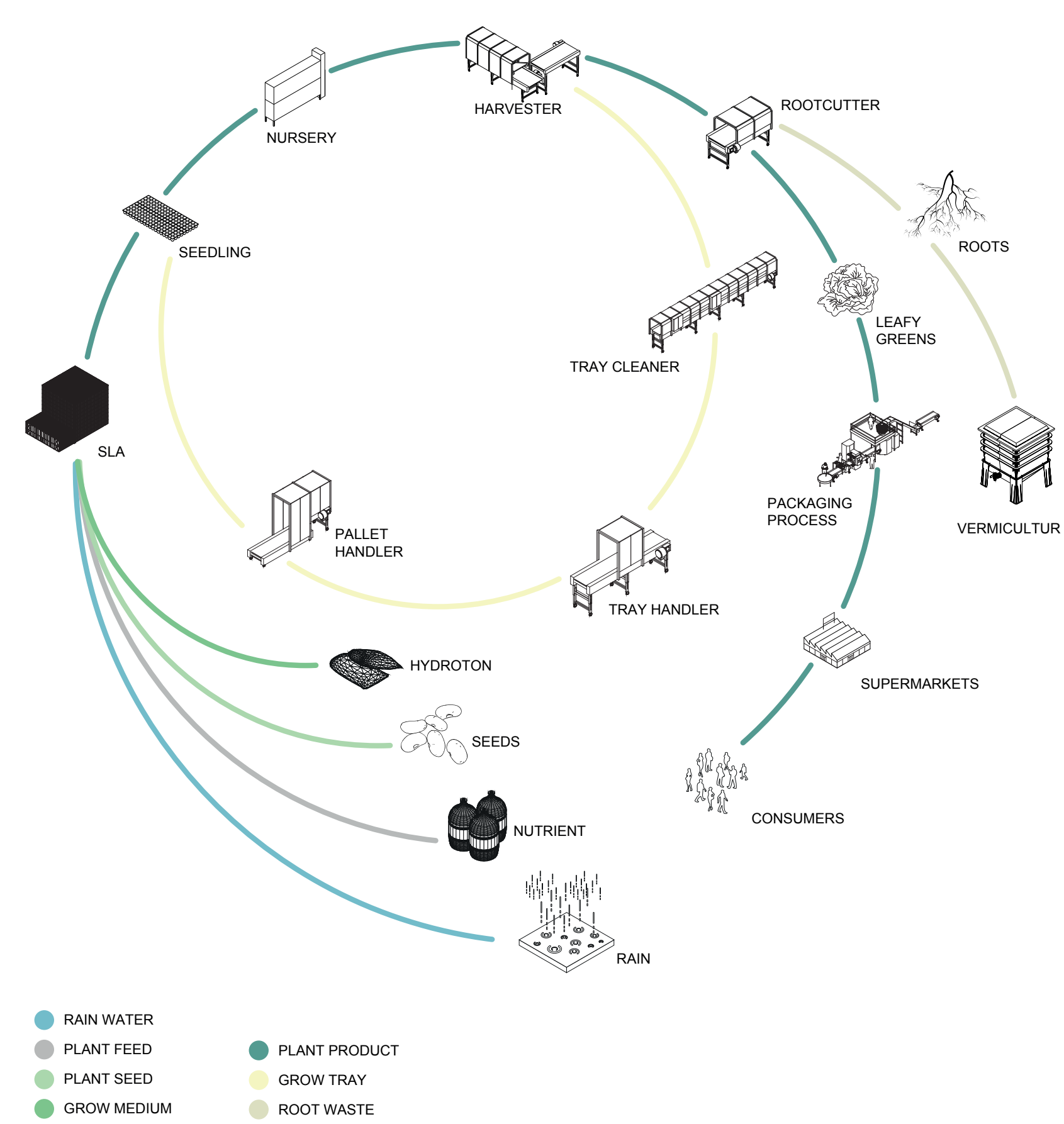


STRUCTURE

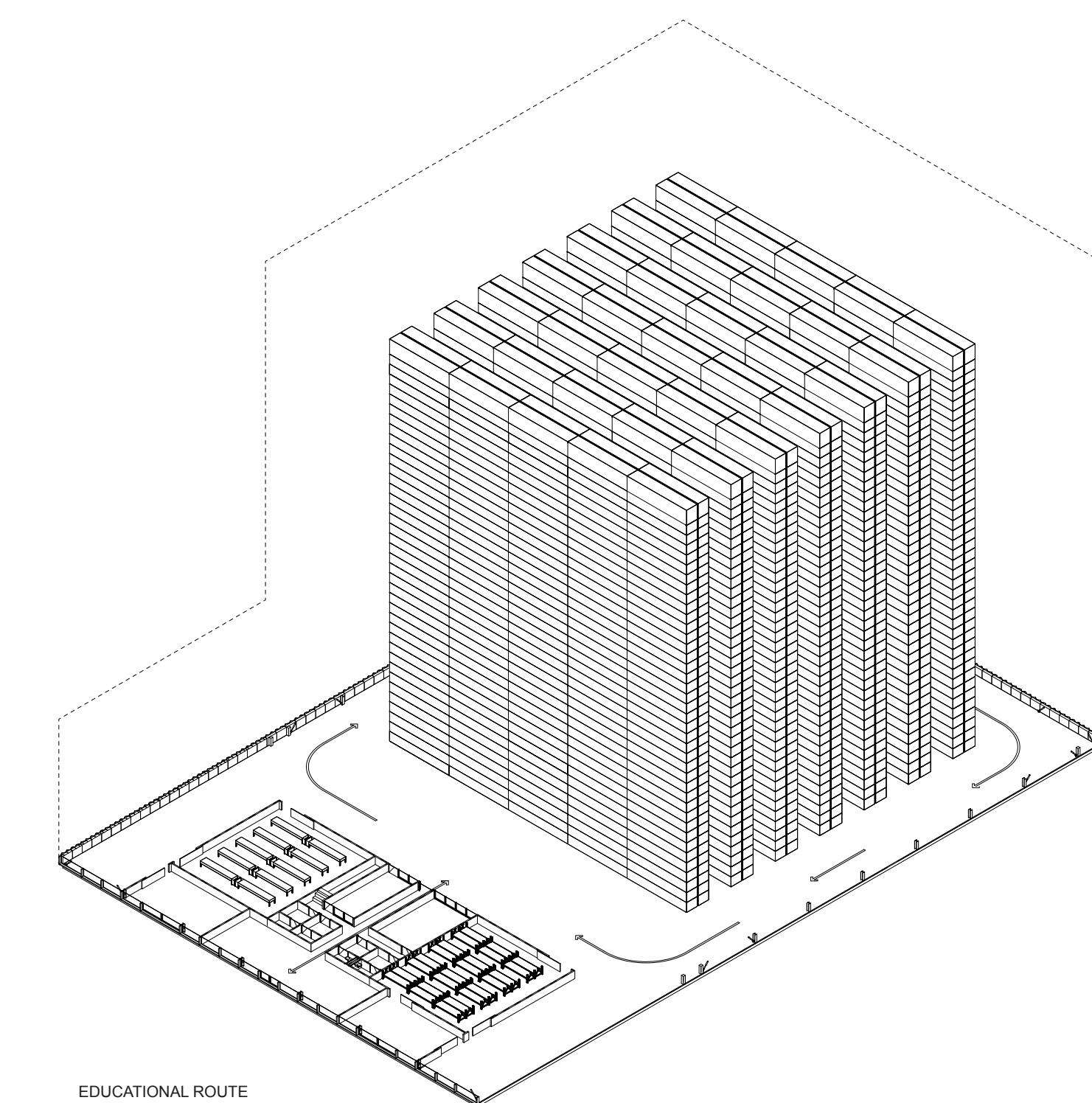


- 1 WATER INSTALLATION
- 2 AIR INSTALLATION

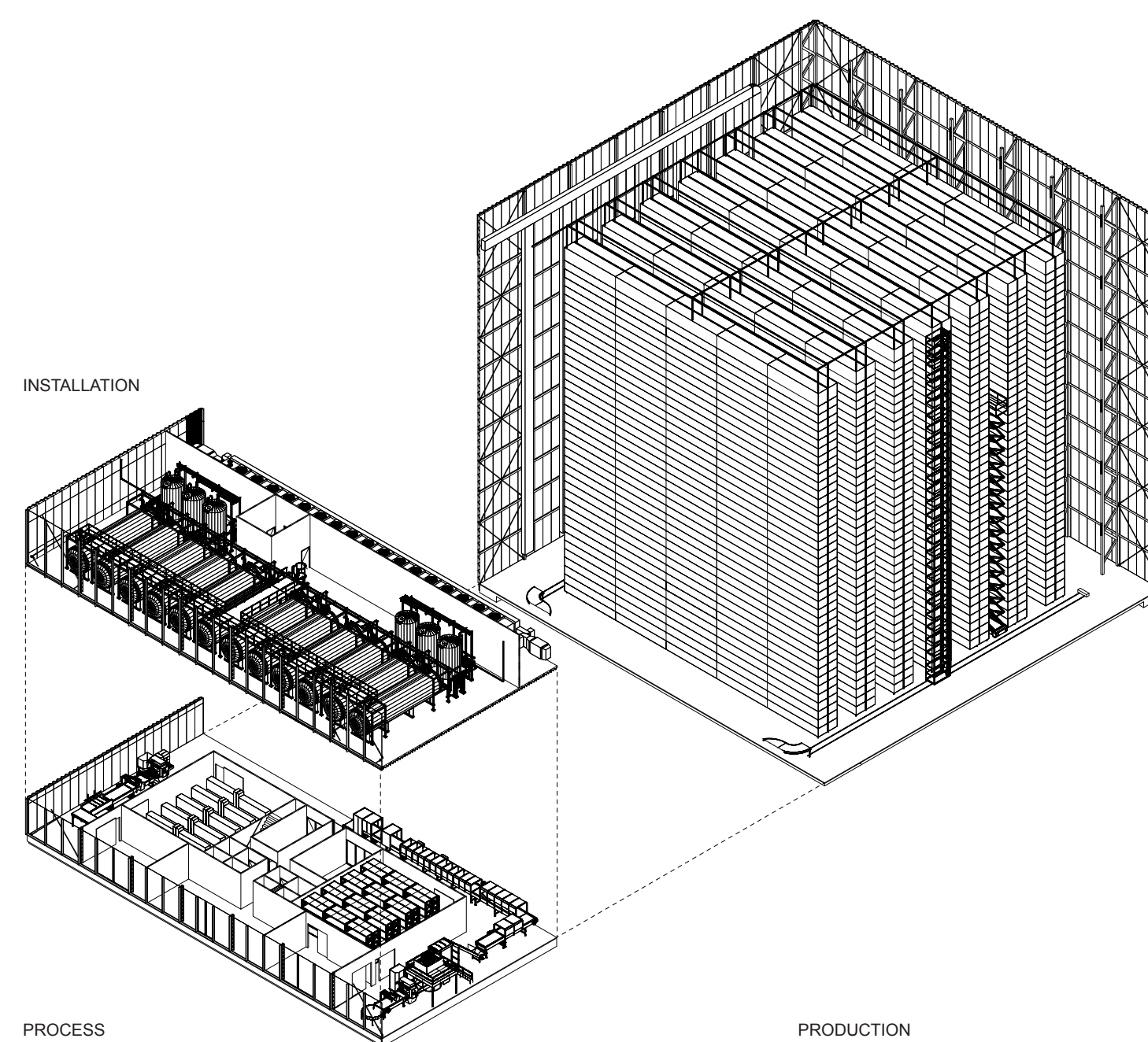
FLOOR PLAN 01



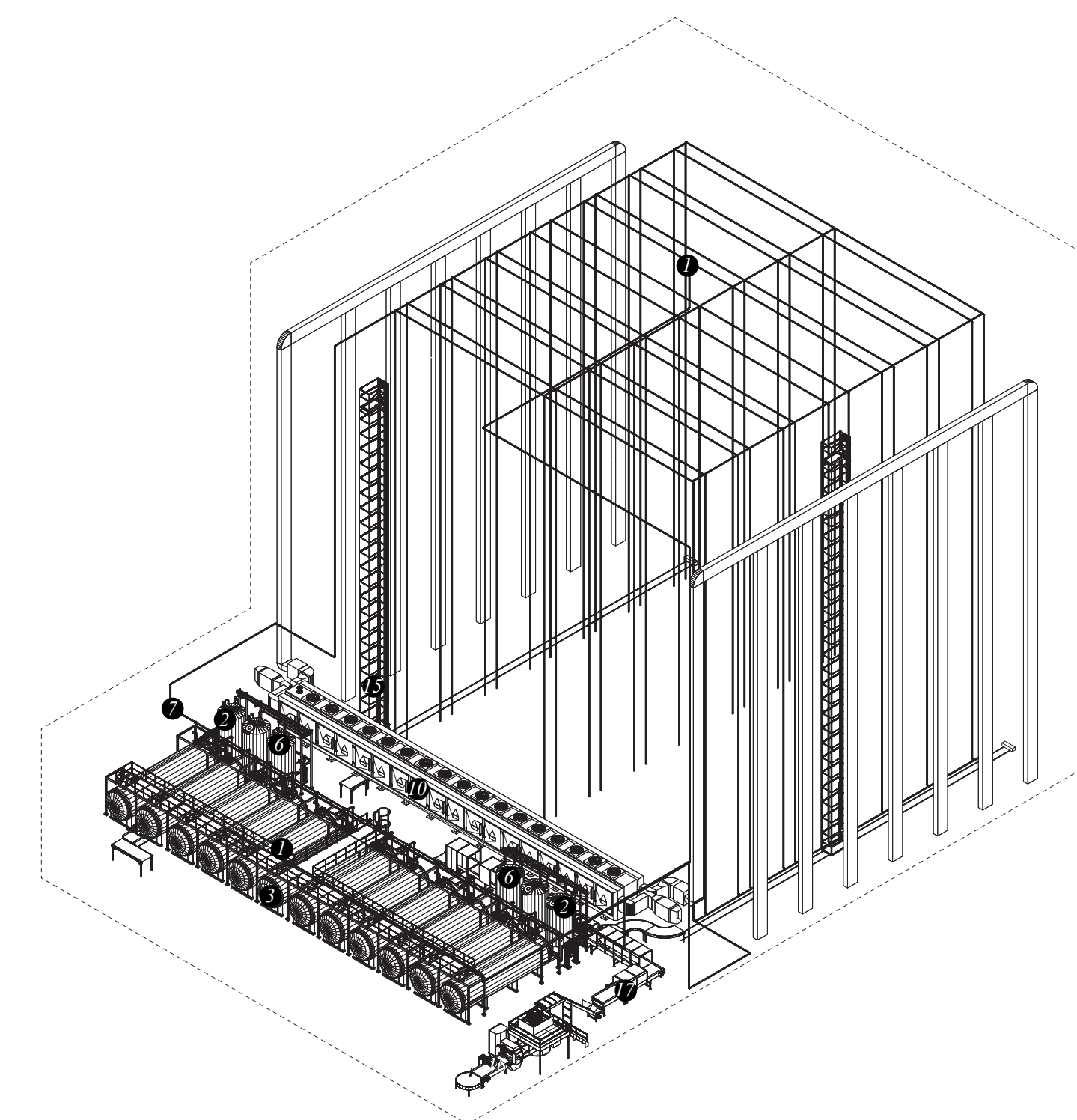
CIRCULARITY



AGRI-CULTURE

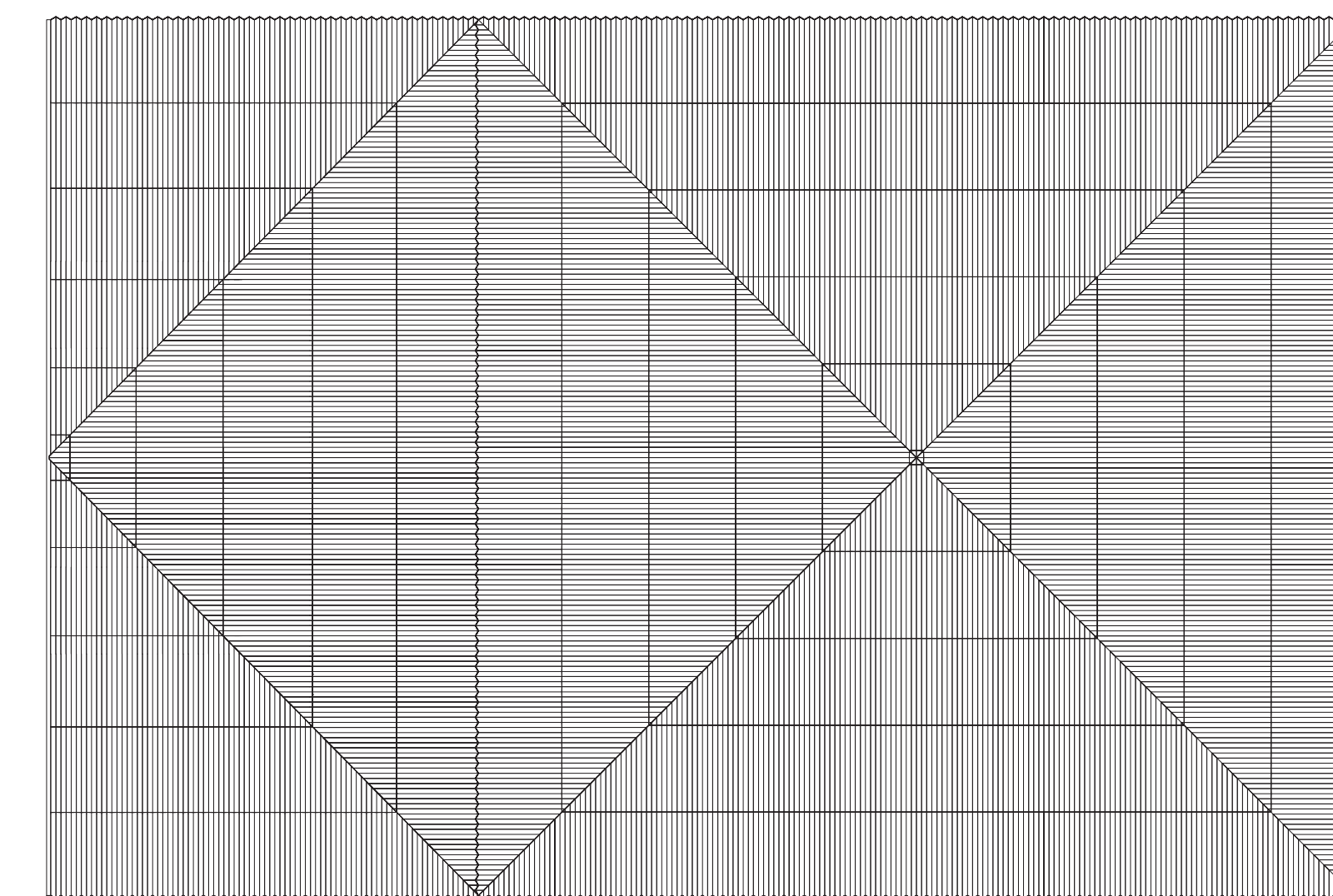


THE COMPACT MODEL



- 1 RAINWATER COLLECTION
- 2 RAINWATER FILTRATION & STORAGE
- 3 WATER TANK
- 4 WATERPUMP
- 5 TIMER
- 6 DOSATRON WATER MANAGEMENT
- 7 FILL DRAIN
- 8 OVERFLOW DRAIN
- 9 ELECTRICITY & DATA OUTPUT
- 10 CLIMATE CONTROL
- 11 TOILETS
- 12 WASTE WATER COLLECTION & PUMP
- 13 WASTE WATER OUTPUT
- 14 SEEDLING LINE
- 15 GROW TRAY LIFT
- 16 GROW TRAY CLEANER AND WASHER
- 17 ROOT CUTTER
- 18 PACKAGING LINE

INFRASTRUCTURE



FLOOR PLAN 02

SLA

PHUOC NGUYEN

