G5 GROWING CITY

FARMING PARK VISITOR CENTER

CONDITION OF ORE WALLS

IMAGINATION OF ORE WALLS

CONCEPT MODEL

STRUCTURE MODEL

MASTER PLAN 1:1000

BIRDS EYE VIEW

PERSPECTIVE OF ENTRANCE

PERSPECTIVE FROM LAKE SHORE DRIVE
STRUCTURE CONCEPT

Facade Structure: Existing concrete wall + New timber portal frame. (Contrast of old and new)

Inside Structure: Light timber structure attached to the existing concrete wall. (How to add new function under the same roof)

Connects between wood beam and ore wall.

CLIMATE CONCEPT

Varying Climate Varying Solution
Constant Climate Constant Solution

Natural ventilation in spring and autumn
Combine with mechanical ventilation

Pre-cooling displacement ventilation in summer

Pre-heating displacement ventilation in winter

Floor heating in winter

Natural lighting in clear day
Varying angle of louvers

Lighting

Natural lighting in cloudy day

Vertically ventilating louvers

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1. Ridge vent
2. Insulating Glazing, 8mm+22cavity+8mm, light-redirecting aluminium louvres fitted in cavity, stove-enamelled, white outside.
3. Timber portal frame, section 200mm*400mm
4. Timber purline, section 100mm*200mm
5. WICLINE 90SG all-glass intergated opening sash
6. Existing concrete wall
7. Cement adjustment layer for portal frame
8. Adjustment wood frame

SECTION B-B 1:50
White silikate paint,
12.5mm Plaster board,
200mm Sound Insulation,
12.5mm Plaster board,
White silikate paint,
Vinyl tile,
Fibermesh reinforced concrete with hydronic heating system-150mm,
Insulation 100mm,
Screed 50mm,
Bituminous membrane water barrier,
Gravel 150mm

SECTION A-A 1:50
0.5-1.3m Reinforced concrete foundation,
100mm Insulation,
5mm Water barrier,
20mm Drainage plate, d=120mm French drains.

INSIDE FACADE 1:50