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11.307 Beijing Urban Design Studio
Summer 2008

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Zone 2

Raw Material Processing

Characteristics

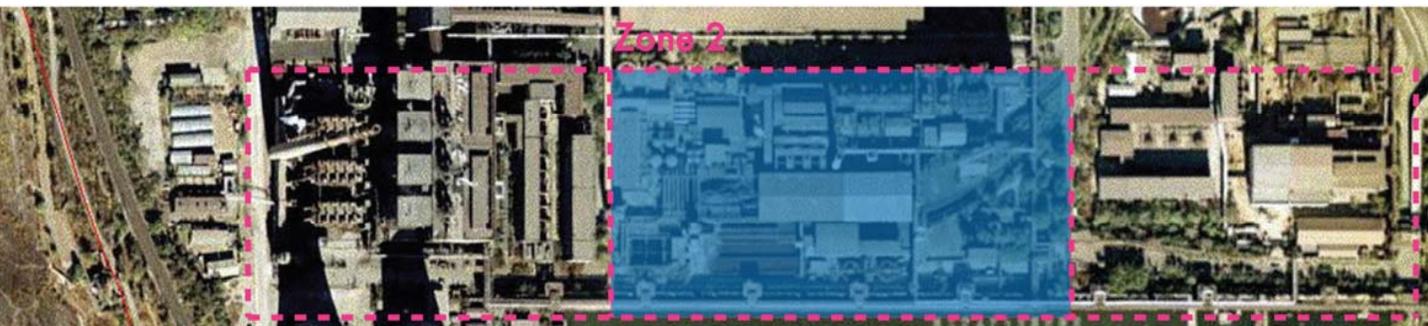
Green screens between spaces, along roadway

Steel and concrete structures

Train circulation flows through block while vehicular traffic creates edges

Large steel cranes and interesting concrete structures

Overhead pipe systems less prevalent than in other areas





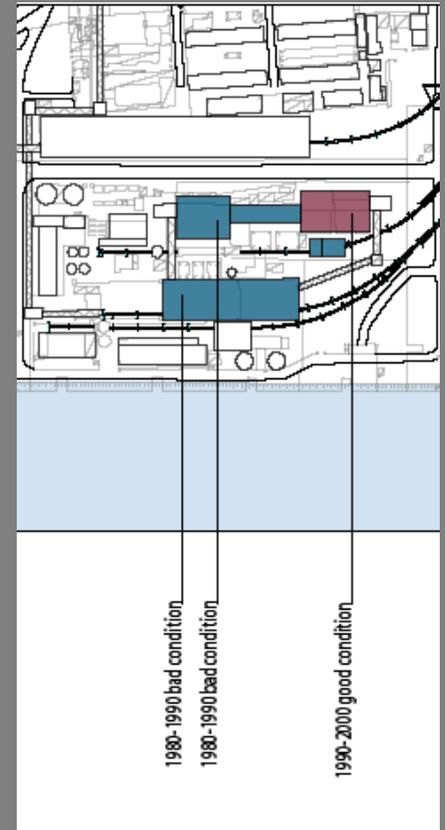
Zone 2

Raw Material Processing

Large steel structures are in poor condition

Concrete milling factory is in good condition

Vertical wells





Zone 2

Raw Material Processing

Gantry cranes

Overhead walkways

Circular structures





Zone 3

Power Factory

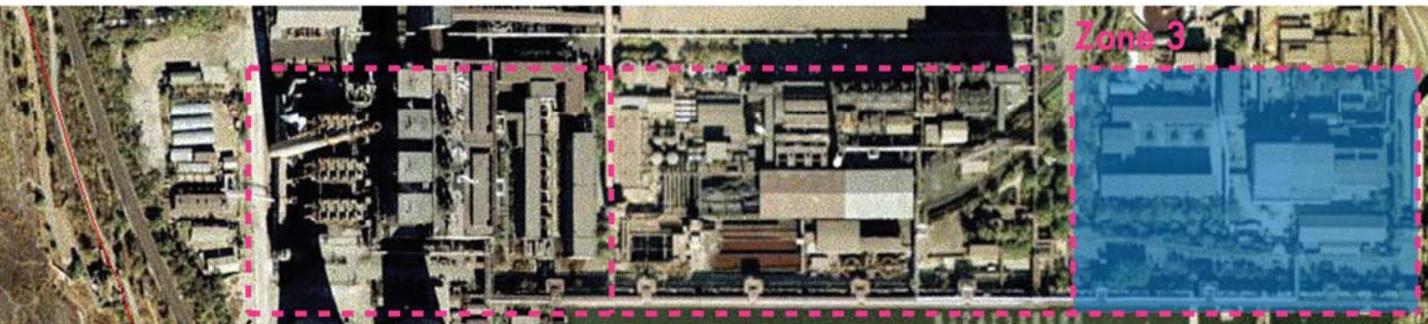
Characteristics

Two larger brick and concrete structures surrounding by smaller buildings

Structures in this area are lower than other zones

Vehicular Parking in courtyard spaces

Presence of unstructured vegetation near railroad.





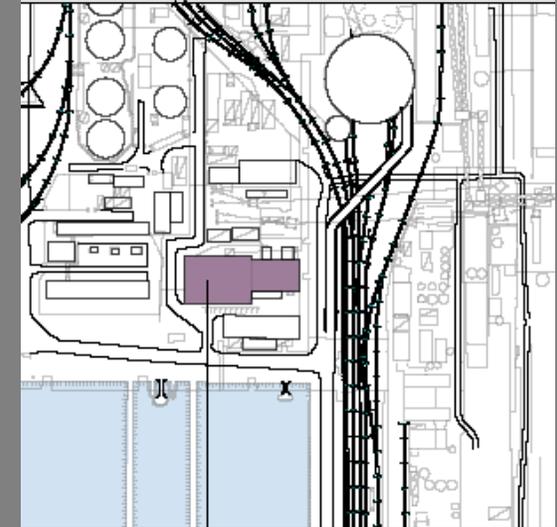
Zone 3

Power Factory

Brick and Concrete building

Good condition

Monolithic, in contrast with elevated pipe and passage systems



1990-2000 good condition



Zone 3

Power Factory

Overhead material transport systems

Structured and Unstructured Vegetation





An Engine for Transformation



Coal Delivery

Coal Storage



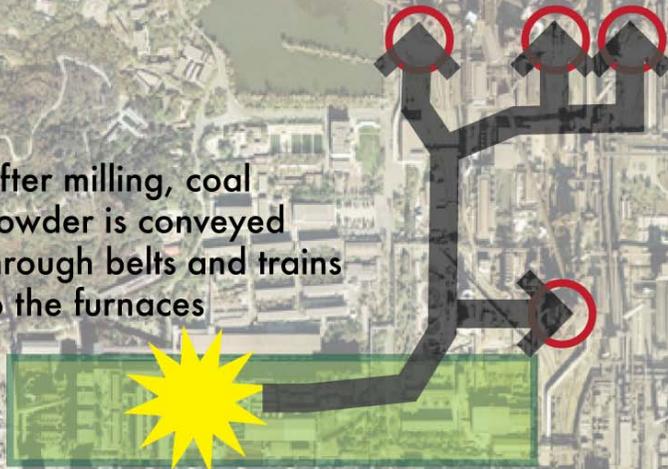
Coal stored on-site in barns

Coal Storage



Coal enters the power plant and leaves as electricity that powers the coal milling plant, the blast furnaces and local buildings

After milling, coal powder is conveyed through belts and trains to the furnaces

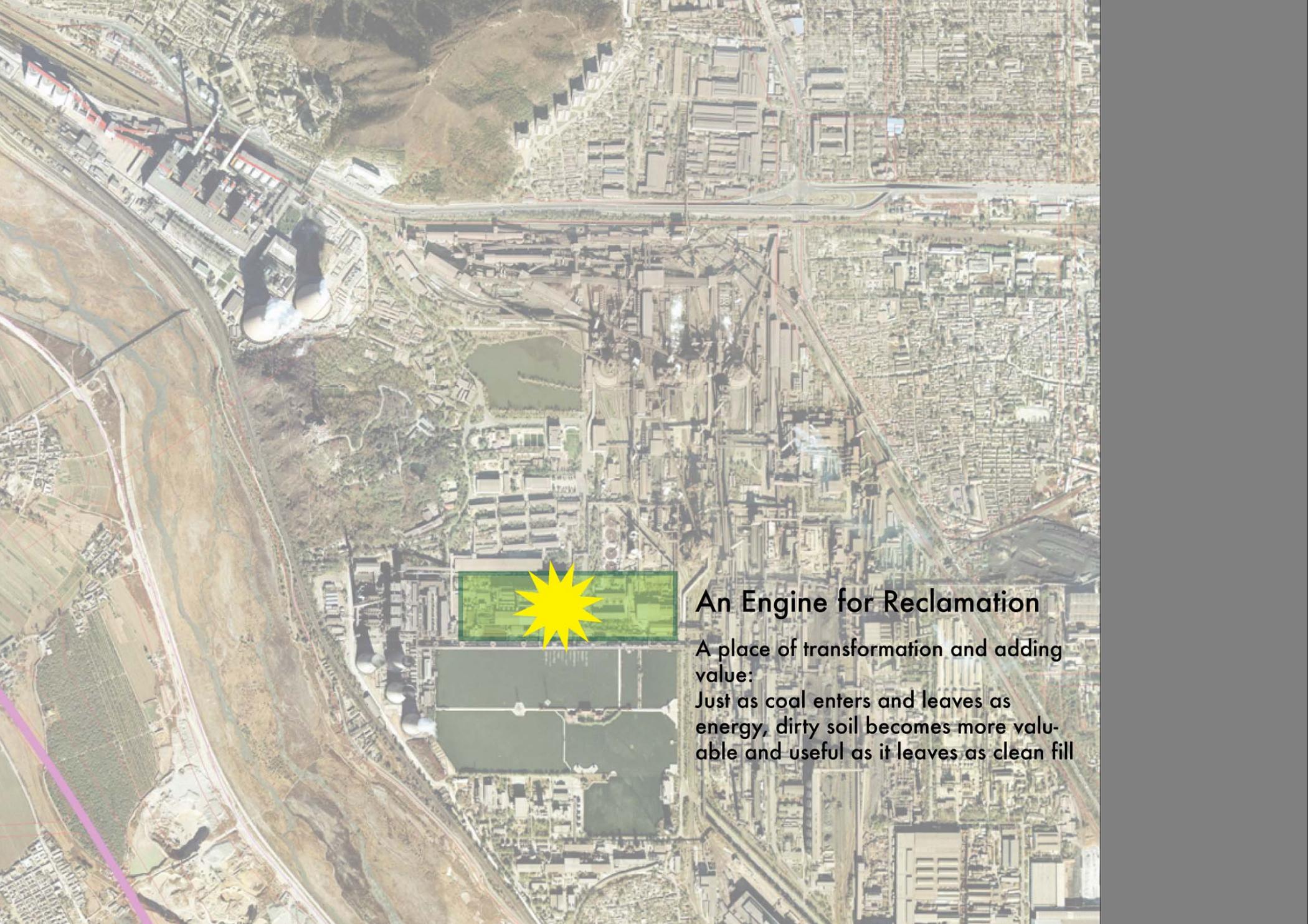




Electricity travels by conduit to the coal milling facility

Hot air, steam and gas are from the power station are piped to the furnaces

Gas and water are piped to the power station from across the lake



An Engine for Reclamation

A place of transformation and adding value:

Just as coal enters and leaves as energy, dirty soil becomes more valuable and useful as it leaves as clean fill



Soil from around the site is transported via the existing rail network to the site

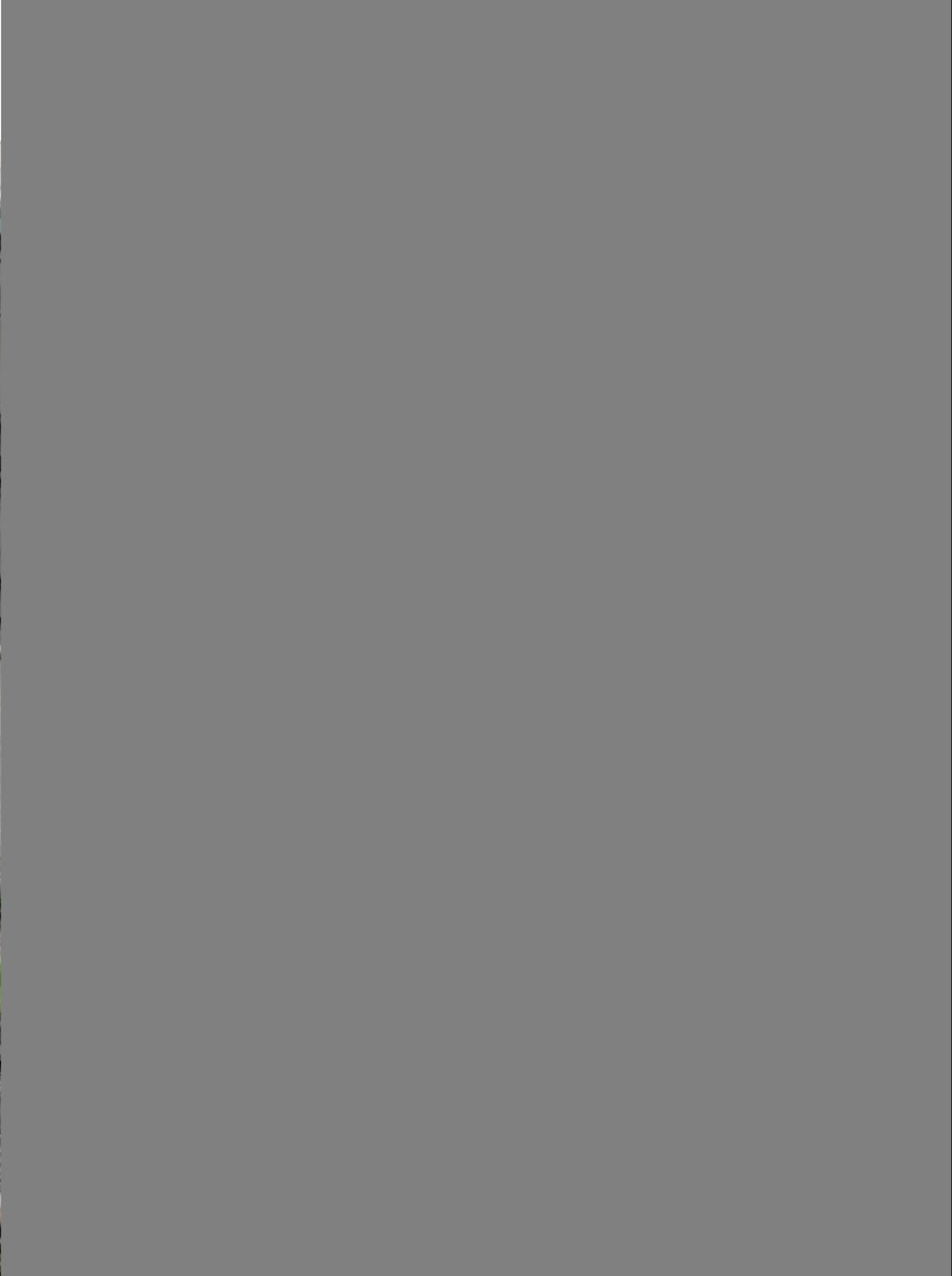
After treatment and storage on site, the soil is transported to other areas of Shougang via rail



Buffer Zone



Retaining an industrial function on the site provides a buffer zone between new programs and the power plant to the West









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Ecological Regeneration

Purification

Soil and Water Purification

Characteristics:

Power Resources:

- Windmill: “Yellow tail”
- Biological Power

Plants Selected:

- Phragmites
- Reeds

Trees Species with Strong Anti-pollution Capacity

- Oaks
- Alders
- Willows
- Poplars



Paulownia

Black Locust

Staghorn Sumac

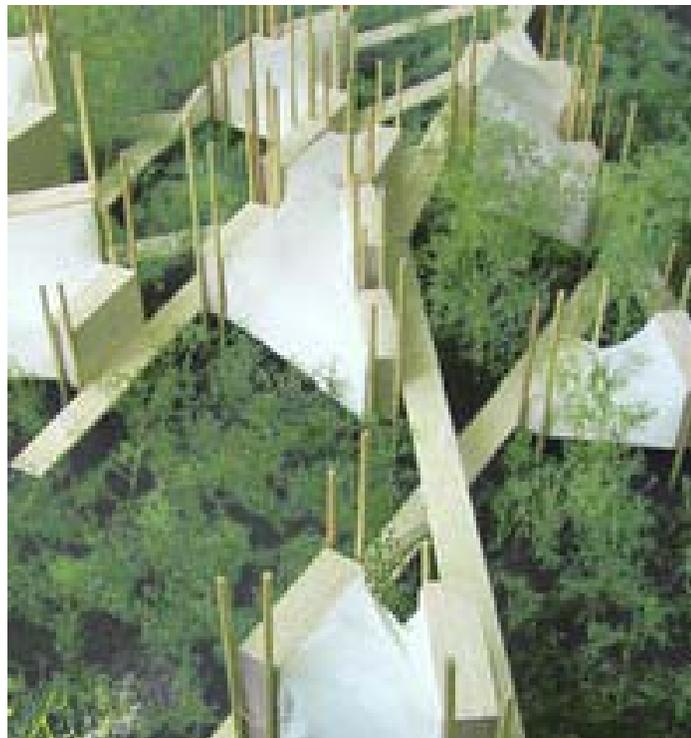
Tree of Heaven



Shrub

Soil

- Ligustrum Lucidum
- Evergreen Euonymus
- Chinese Arborvitae



Future Use



Pipe Re-use

Re-use as planters



Pipe Re-use

Re-use as planters

Pipe Structure

Re-use as multi level dining





Cooling Tower

Re-use as spa



Scrap Pile

Re-use as compost pile

Coal Barn

Re-use as kids playground



