



BUILDING

TO REGULATE rainwater flow, improve heat island effect, purify urban air and optimize ecological environment.

- Plant herbaceous vegetation on the roof or high vine plants on the exterior walls of buildings.
- Install a metal chain at the bottom of the cornice to drain rainwater and protect the building from rain.

TO REDUCE the exploitation of groundwater and the pressure of urban drainage system, improve the utilization rate of water resources.

- Collecting and utilizing the rainfall runoff collected by the roof of building and stored in a cistern or tank on the ground, where the foundation of building is not allowed to dig.
- Collecting and utilizing the rainfall runoff collected by the hardened surface of buildings such as roofs and roads, squares, etc. and stored in large underground reservoirs.

PROPERTY

TO REDUCE the city flood peak flow, purify rainwater, reduce pollution and improve microclimate.

- Plant multi species of native vegetation for all naturally formed lawns in the city.
- Artificially excavated shallow green land is used to collect and absorb rainwater from the ground. The rainwater is purified by the combined action of plants and sand, and it gradually infiltrates into the soil, conserves groundwater, or replenishes the city with landscape water and toilet water.

TO INCREASE urban surface rain permeability, improve urban green coverage and reduce urban noise.

- Rearrange the existing parking area in the city, use the pervious material on the surface and insert landscape greening at meanwhile.

STREET

TO CONNECT building, property and open space to build a sustainable and integrated ecological rainwater system.

- Substitute pervious pavement in narrow street of residential area.
- Employ the pervious pavement and remove the height difference between the sidewalk and the driveway, and set up some elements (paving, rain gutters) to assist the separation between people and vehicles.
- Insert green belt which with LID intervention to separate opposite traffic in urban main road.
- Create greenway landscape beside the highway of the city.

OPEN SPACE

TO INCREASE biodiversity and improve urban water storage capacity.

- Plant more native vegetation in low density area, such as sensitive ecological habitat and open space.
- Remanage the existing park in the city and apply the LID intervention.
- Create recycle system to store stormwater for irrigation.
- Insert a buffer belt between the ditch and high permanent agricultural area.