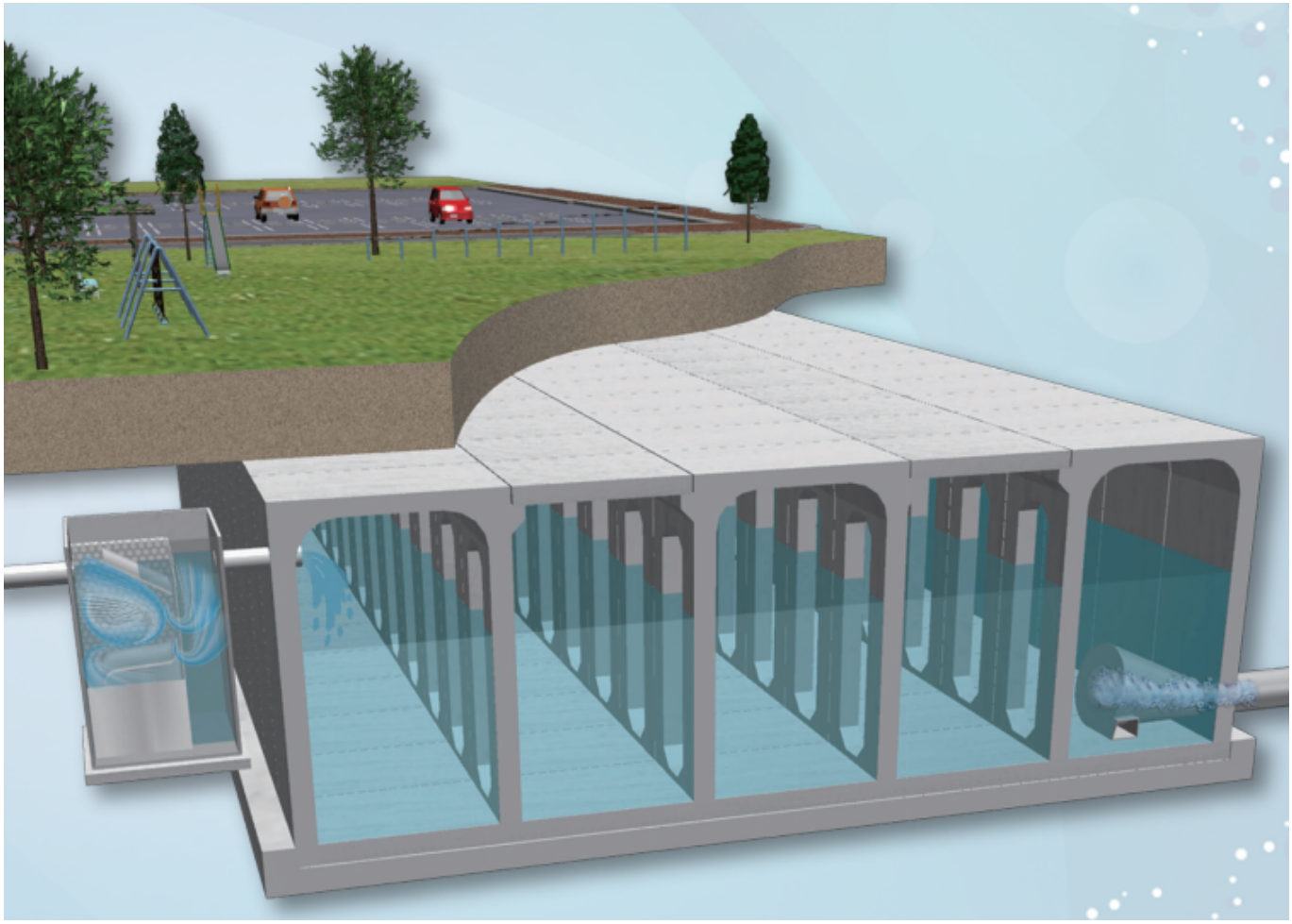
Hybrid Water Storage & Flood Prevention System

Water storage / infiltration systems with filters and flow control functions
(Systems used for Flood, Stormwater, Firefighting, etc.,)



Hazard

Earthquake Cyclone Storm Surge Flood Drought

Solution Purpose

Prevention & Mitigation Recovery

Solution Theme

Disaster Prevention Plan Infrastructure Technology Building Technology

Technology Subject

Mitigation Plan River & Basin Coast Road Railways Airport Port Essential Utilities Urban Facility for Disaster Prevention Design & Construction of Resilient Building Resilience Improvement on Existing Building

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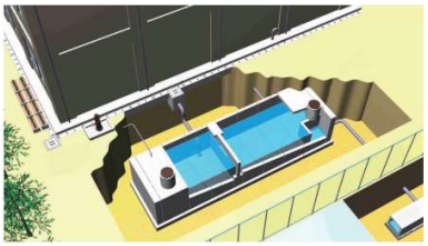
Advantages

"Hybrid Water Storage & Flood Prevention System" is a highly functional storage system that combines water storage / infiltration facilities, filters to remove impurities during inflow, and flow control functions during outflow.
By combining storage facilities with equipment, it can be used for flood control and water storage.

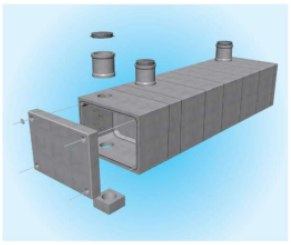
Solution Illustrated

❶ Storage facilities

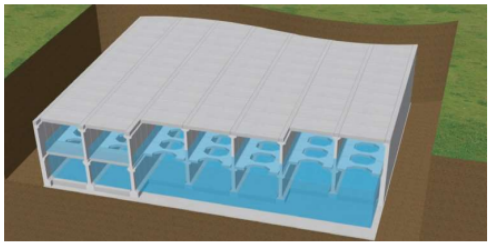
Separated storage tank



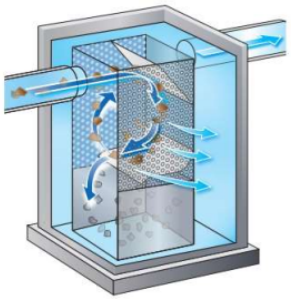
Box Culvert tank

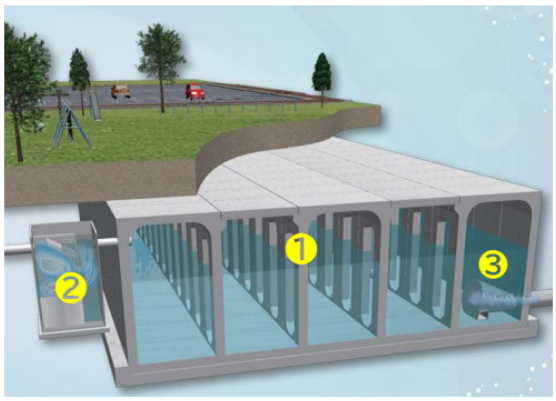


Large-scale storage tank with component assembly

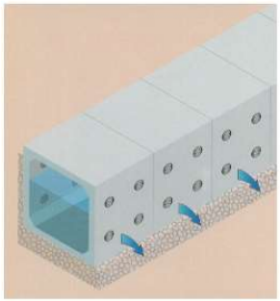


❷ Filters to remove impurities for liquid





❸ Infiltration ／ Drainage



Background

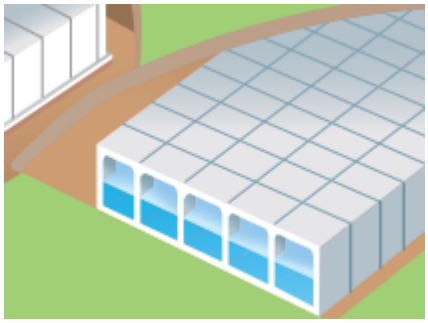
In recent years, climate change caused by global warming and other factors has caused various disasters, including flooding due to increased heavy rainfall from storms and torrential rains, and droughts due to prolonged lack of rainfall.
In addition, frequent earthquakes in different regions have caused damage to storage facilities and reduced facility functionality, both of which need to be reseolved.
By combining earthquake-resistant storage facilities with separation functions using filters, etc., and outflow control functions, it is possible to enhance the functionality of the storage facility and implement measures.

Exposition of the Solution

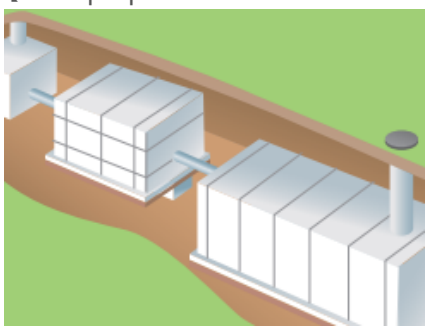
❶ Storage facilities

Various storage facilities are used depending on the purpose, scale, and duration of storage. Storage facilities may be also used alone.
【Large-scale, component assembly type】

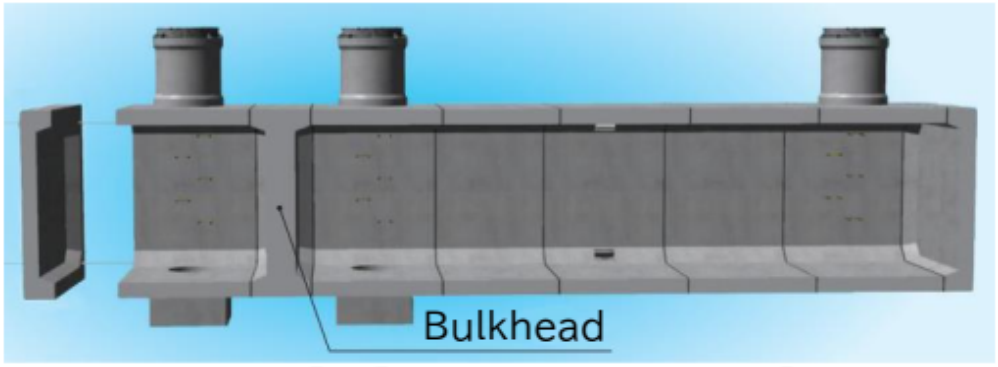
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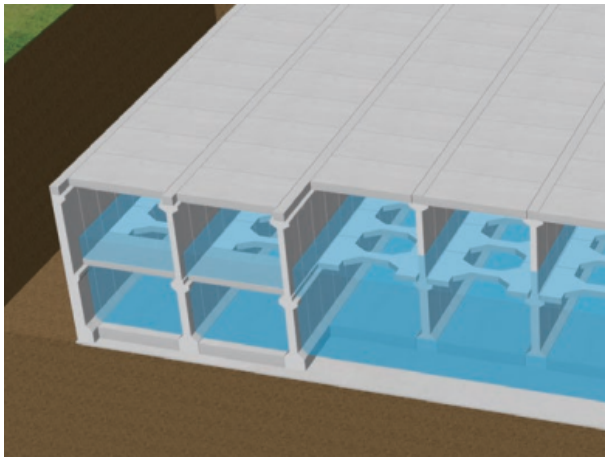
【Multipe placements and connections】



【BOX culvert tank with bulkhead】

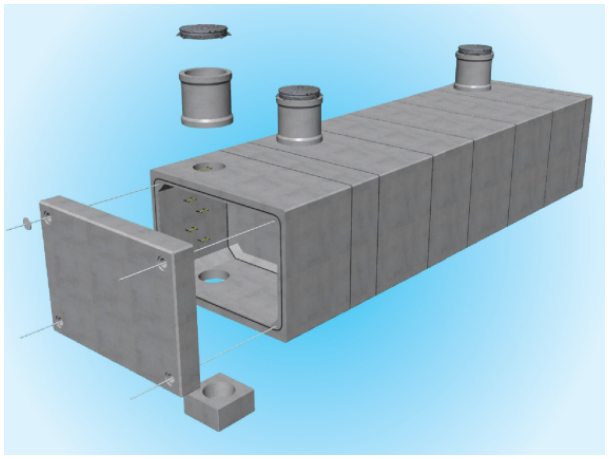


【flood control measure】

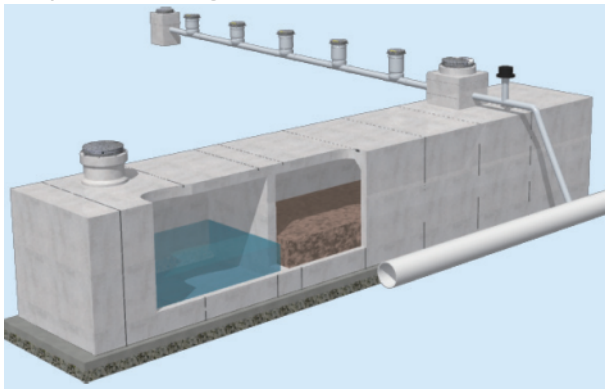


【for fire / earthquake protection】

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【separate storage】

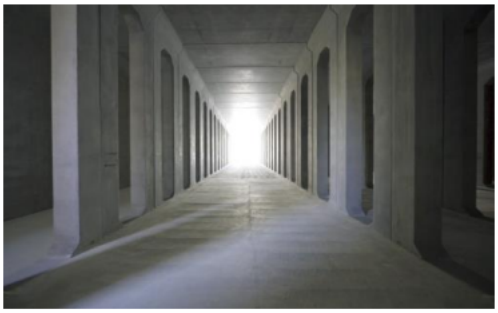


Achievements of Examples

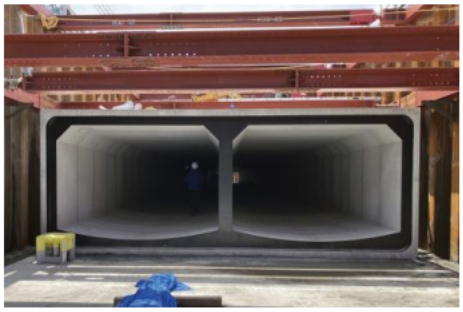
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【Example ： Large-scale, component assembly type, Storage capacity 10,000 m³】





【Example ： Box culvert tank, Storage capacity 4,400 m³】



【Example ： Open top precast concrete storage tank】



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