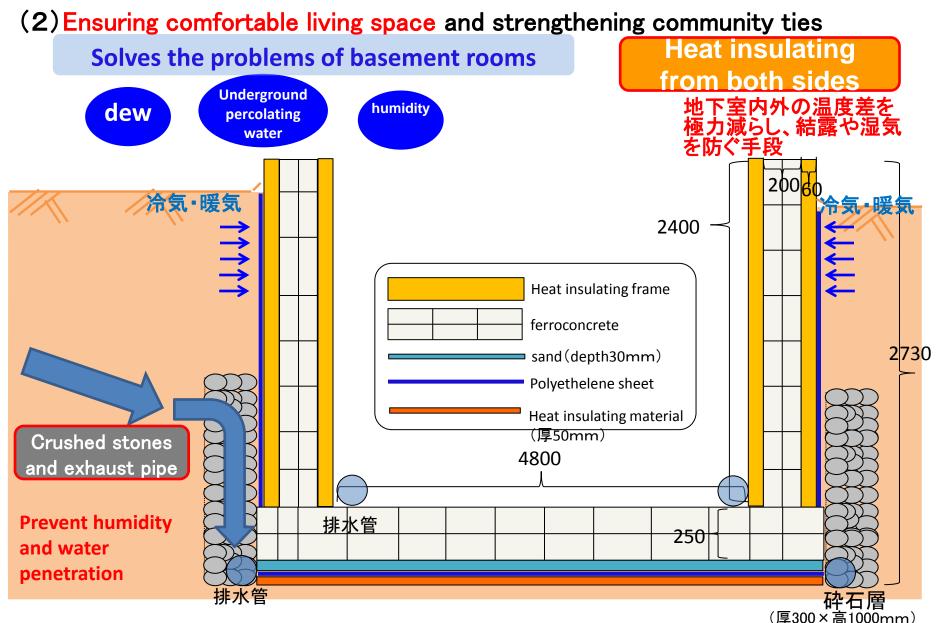
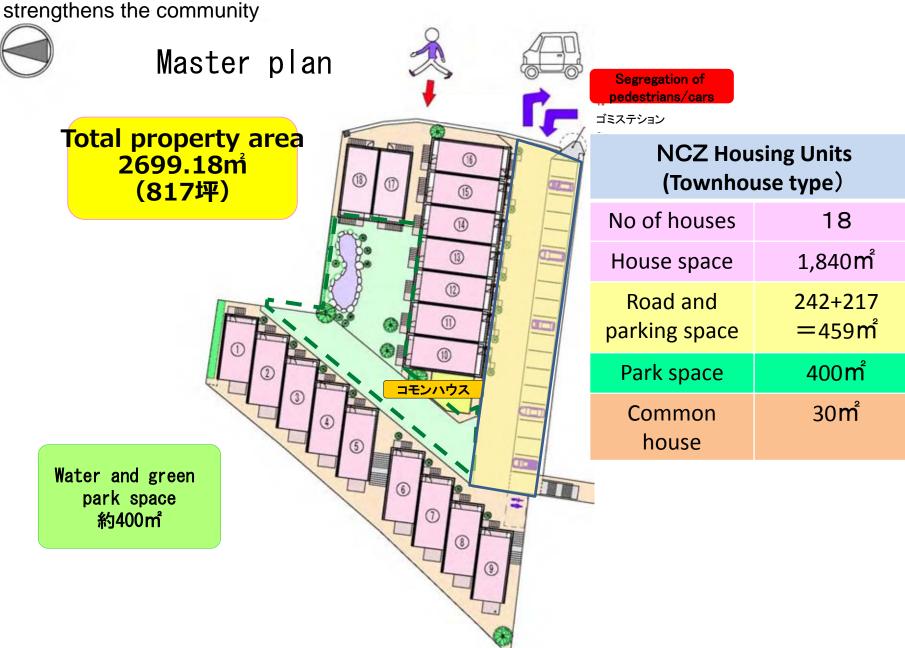
1. NCZ foundation construction method with basement which is disaster resilient and strengthens the community (2) Ensuring comfortable living space and strengthening community ties attic: 22m² 2F :46m² Possible Maximum space 160 m² Can accommodate various 1F :46m² family types and lifestyles 1 階 Basement: 46 m Floor space:138㎡(約41坪) 1. NCZ foundation construction method with basement which is disaster resilient and strengthens the community

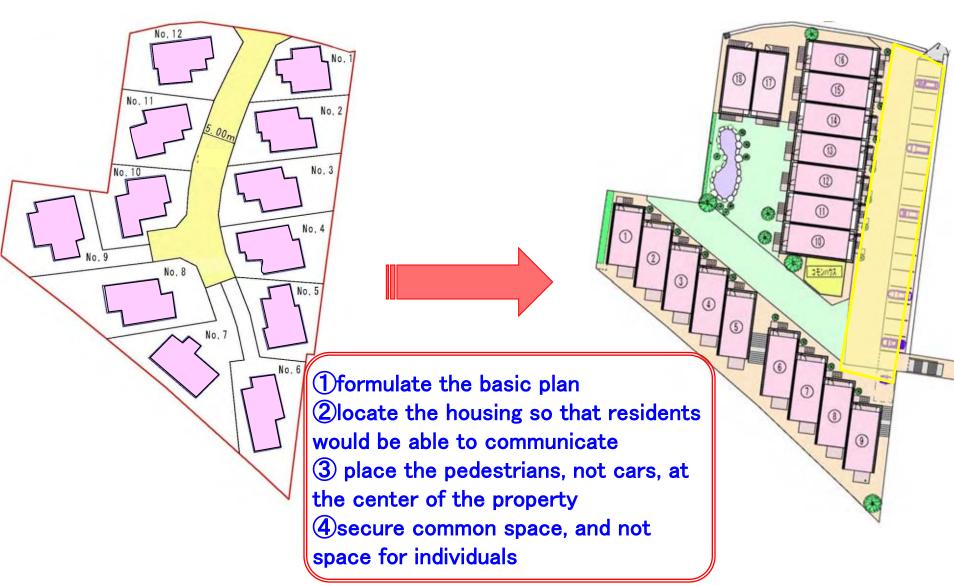


 NCZ foundation construction method with basement which is disaster resilient and strengthens the community

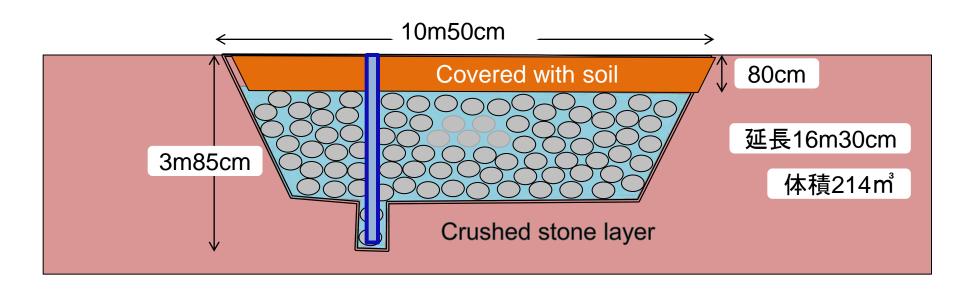


1. NCZ foundation construction method with basement which is disaster resilient and strengthens the community

(2) Ensuring comfortable living space and strengthening community ties

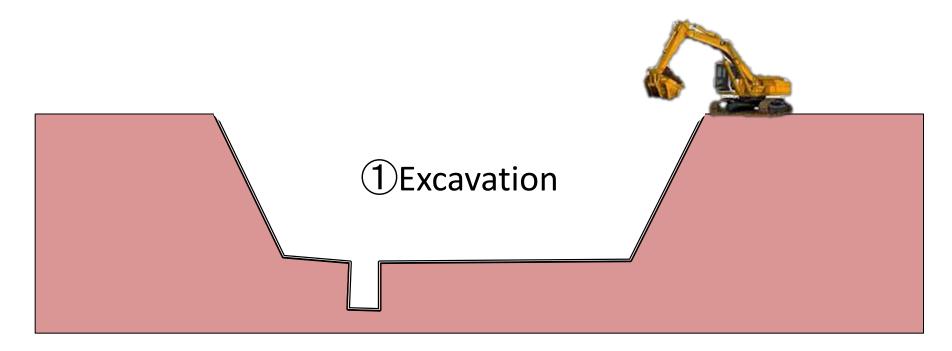


One of largest size rainwater underground harvesting tank, developed jointly with Kyushu University



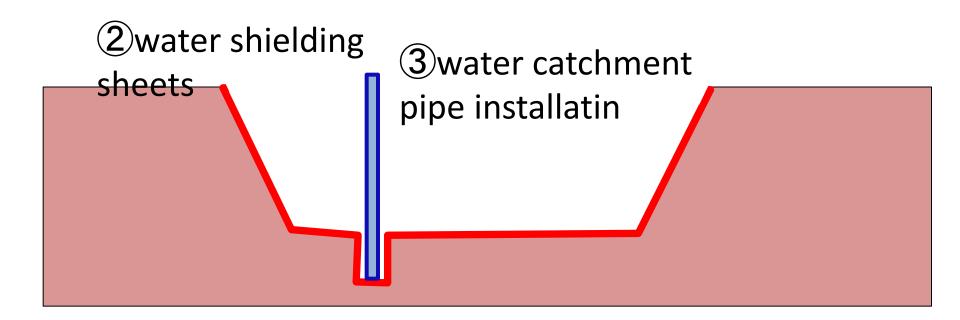
One of largest size rainwater underground harvesting tank, developed jointly with Kyushu University

Process flow of construction ① Excavation →

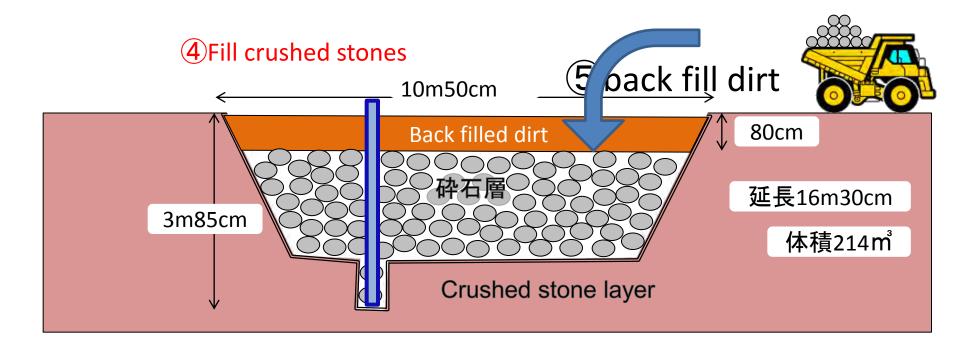


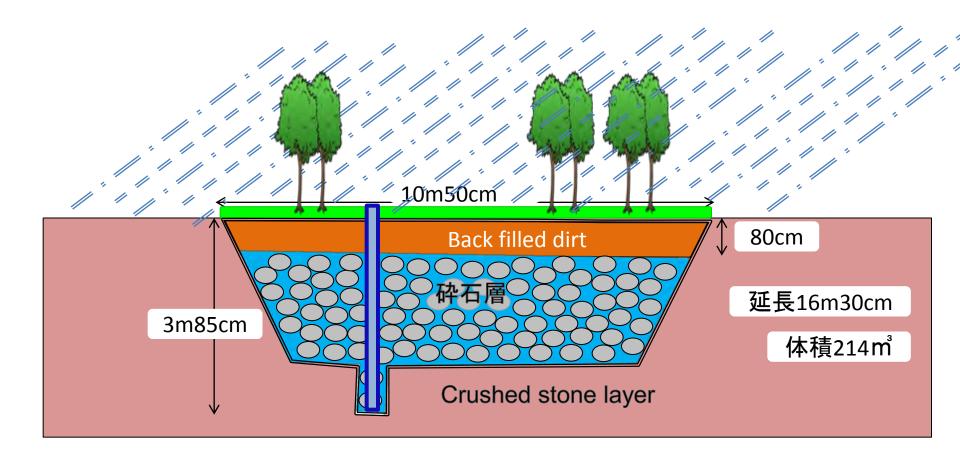
2. An easy method to store clean rainwater and use; 'The Rainwater Underground Tank'

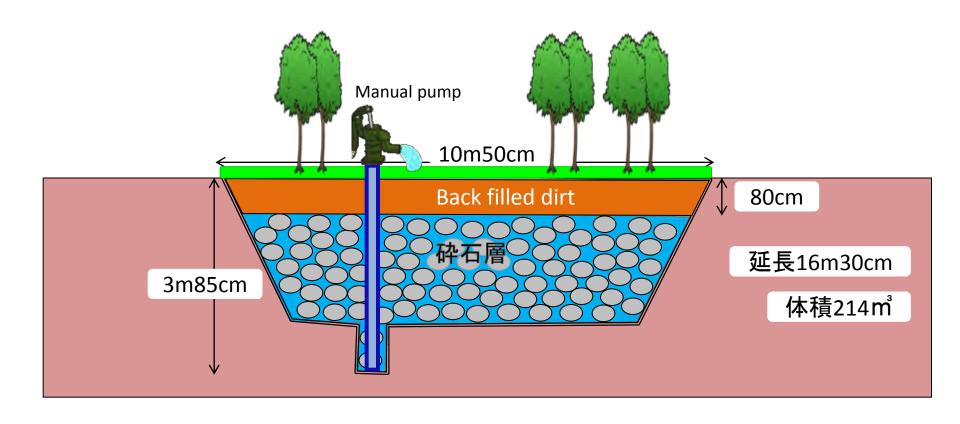
[Process flow of construction] ① Excavation → 2 placement of water shielding sheets → 3 water catchment pipe installation



[Process flow of construction] ① Excavation → ② placement of water shielding sheets → ③ water catchment pipe installation → ④ fill crushed stones → ⑤ back filling dirt



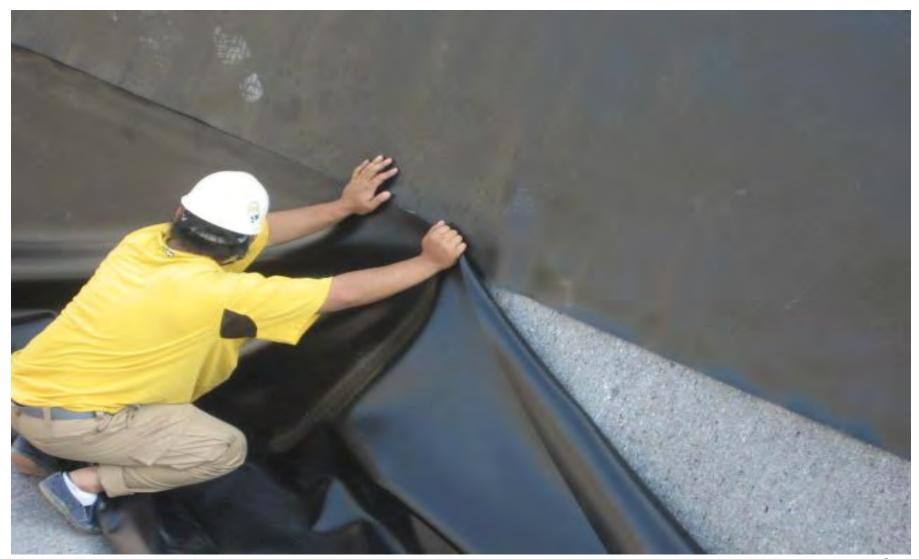




①Excavation(214m³)



2 guard sheets and water shield sheet installation



3 water catchment pipe installation



4 Filling crushed stones



Filling crushed stones: completed



5 Backfilling dirt; surface compaction



Completion





June 2012 at the center garden

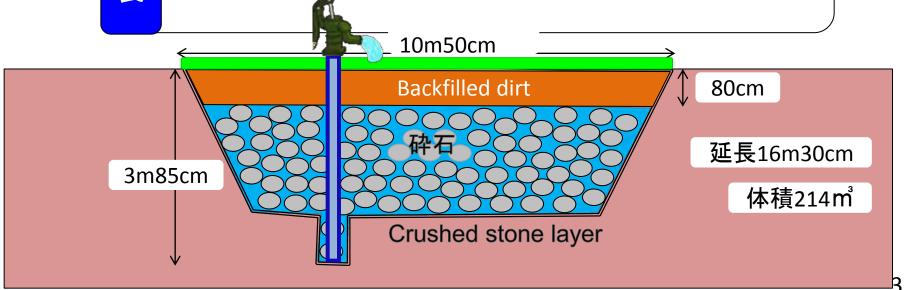
雨水貯水地下タンクの特長

Features of underground rainwater harvesting tank

(1) construction is easy and construction period is short
1/3 time compared to concrete tank, ½ cost

(2)Able to capture 50% of rainwater at the excavated area stone content 214m³ × 0.5=approx107m³(実際112㎡)

- (3) The water is not exposed to direct sunlight and therefore the water quality and temperature is very sustainable
- (4) Water intaking can be done easy by manual pumps
- (5) The surface land can be used



Thank you for your attention

