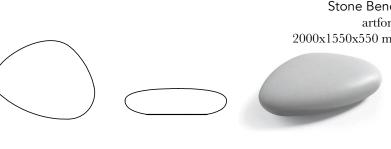
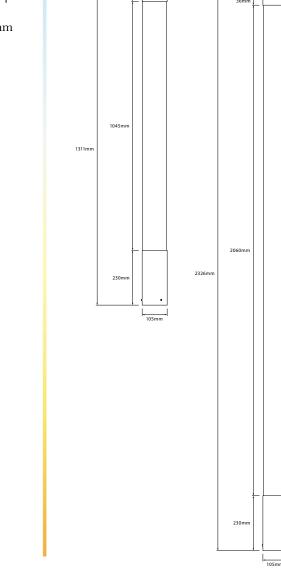


THE URBAN **DRAINAGE SYSTEM**

Water management and rainwater collection for the sustenance of the park

Water drainage takes place mainly through nature itself as the entire coastal front is transformed into a long linear park. Neverthless, in the part which is occupied by the tram line and the driveway, it is proposed a drainage system able to collects and purify stormwater; then, through a filtering system, it is possible to irrigates the entire natural belt of the coast.





GARDEN SIDEWALK- DRAINAGE TILES

 Undergrounded edge stone
 Reinforcement pre-cast concrete block **3.** Frost protection layer

DRIVING ROAD (1% slope on both sides, with integrated

1. Rubber finishing layer, 2 cm **2.** Permeable bituminous layer, 4 cm **3.** Mineral mixture 0/32, 15 cm **4.** Firm - subbase or esplanade

DRAINAGE SYSTEM

1. Water collection canal (Material: polymer, vibro-pressed

2. Containment steel profile **3.** Frost protection layer 0/32

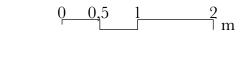
11. Tube to connect the water to the ground, 7 cm **12.** Irrigation system

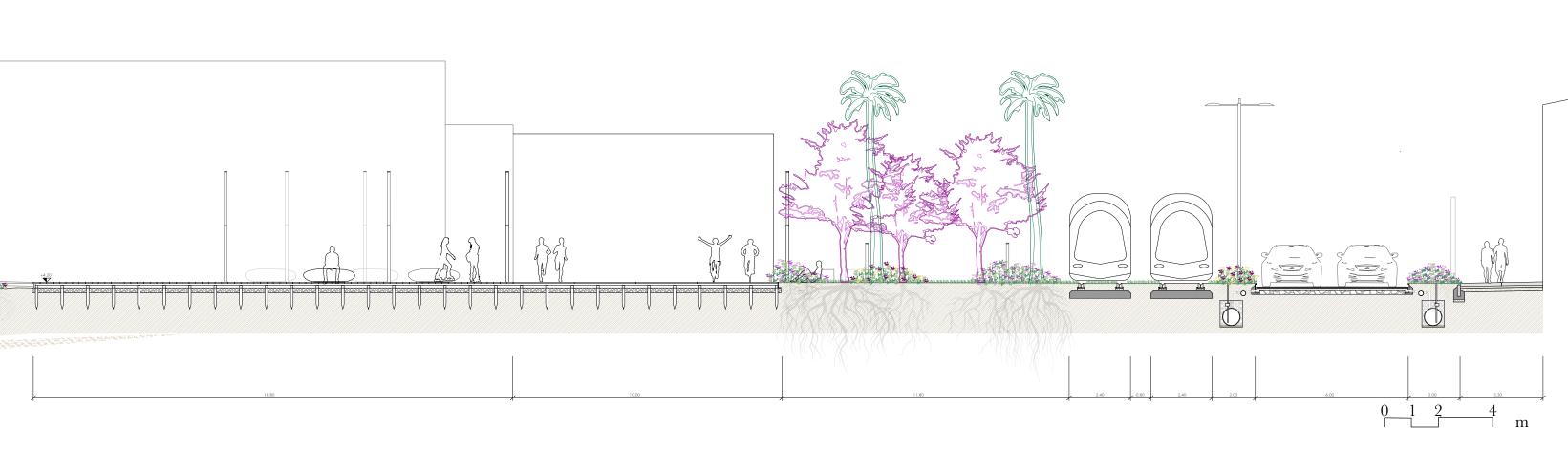
TRAM (tram with rubber wheels)

4. 30 cm of concrete base slab

WATERFRONT SIDEWALK AND WOOD TERRACES (Pine wood: very resinous >> very resistant)

1. Main beams in laminated wood h. 10 cm, each meter 2. Secondary beams in laminated wood h. 7 cm **3.** Wooden plank, 25 cm x 240 cm, h. 5 cm **4.** 30 cm of resistant material, gravel, slope of the 1% **5.** Base pillars in laminated wood, tip diameter between 10 e **6.** Wood cladding panel





POLITECNICO DI MILANO Scuola AUIC - Master of Science in Architecture BEI
Architecture - Built environment - Interiors a.a 2019-2020
Master Thesis - "Watering the Mediterranean landscape" Tav.20 Supervisor: Prof. Arch. Filippo Orsini Author: Michela Almiento