

The Wall: A space-time reflection.

Overstimulation of awareness.

We propose to create a wall for the city of Santa Monica. A wall that reflects its current state as a city and where it can go in the future. In a sense, this wall will act like the chalk board in your school classroom.

The city of Santa Monica has entered a period of dryness. As a result we have to keep a checklist of all the sustainable actions that we need to accomplish:

- Flyers & Ads (for how to recycle and what does not)
- Irrigation schedules
- Blue, green and black dumpster (too many containers and where to find to place them)
- To buy local produce or in season.
- "Ride your bike to work day"...

LGH...

Too many instructions with an endless list of tasks. We are constantly bombarded with this awareness to take care of the city, which as a result, it becomes an overwhelming experience and a turn-off. Yet, there is no actual element that teaches us in a space-time form.

The question then becomes, can we create a wall that teaches us and disappears when it crosses the threshold of overstimulation of endless tasks?

Hence, we propose an interactive wall that joins city and nature by place-making a wall that teaches us how to generate energy for the city, drinkable water for the environment, and vanishes when overwhelming the pier.

The Journey

Sunday 9:57 pm

It is a nice day to be outside. They are awake. I'm unplugging them from their phones.

I feel like going to the beach. I'm going to tell the others.

10:12 am

We're here. We are at the Santa Monica Pier. I'm heading to the edge of the pier and see if I can spot some sea lions.

10:15 am

What is that? There is something weird on that platform? Like the water is being reflected on the horizon. I'm going to check it out. I have to head down the pier and...

12:36 pm

I've arrived at the platform and the water reflections turn out to be these tall mirrors. The mirrors start to warp. I am going to send a picture to Mike. "I look like #godzilla taking over #SantaMonica"

12:48 pm

The panels are starting to look crazier and crazier. I think it's over. I'm about to hit the edge

01:04 pm

Dude...I haven't seen an ocean view as pure as I am seeing it now for a long time" #panoramaview

01:06 pm

I'm blown away. There is this water canal dividing the platform where the mirrors are standing and the other side is this nature rocky/shrubby path with trees. You can finally see the wall guts. It is made out of metal structure with a big net in the middle and tubes going into the ground. I am going to keep going into this path

01:09 pm

Ok. I am lost. I don't know where I am going.

01:13 pm

Sunday 1:17 pm

#trees.

I'm back at the wall? But this side is different. There is a gap between the glass and you can see the net dripping with water.

01:21 pm

THAT'S HILARIOUS... These people are crazy, making weird faces and poses. Oh... it's a one way mirror. They can't see me laughing from here.

01:22 pm

Yup. That was me a moment ago too.

01:23 pm

This is awesome. Check my photo.
#nature

01:25 pm

this is amazing. For a second feels like I'm part of nature. Come here. I'll wait for you guys here

01:30 pm

I'm going to continue walking and see what else I find

03:30 pm

Is that lady drinking from that water fountain? Here? I am kind of thirsty. Should I try?

03:45 pm

Wow! You can totally drink this water.

03:50 pm

This looks like an island but is weird since the other side has nothing in comparison.

4:10 pm

ok. I'm ready to head out.

5:32 pm

Sunday 1:45 pm

what? The whole platform is flooded...I
am going to take a picture.

#Floating #Mirrors #SantaMonicaPier #Art
#Amazing

05:46 pm

Well spent Sunday. That place was interesting.
Simple but wild? I wonder what can I do too.
Would the trash company freak out if I paint my
dumpster?

01:22 pm

Idea behind the Wall

The wall is a reflection of our everyday life. It mocks us. Plays with us. Teaches us. Angers us. It's an obstacle that once you overcome it, one discovers mysteries about life. In retrospect, the reflecting surface is the past. The construction of the city of Santa Monica. The present is wall's core, a mediator that engenders energy and water. Beyond the wall is the future, the displacement of nature.

The east side of the wall is composed of mirrored surfaces that upon arrival it incites playful interaction. As one walks along the wall, one realizes that each panel becomes more and more warped, displaying a weird juxtaposition of fiction and reality on the city of Santa Monica. The harvesting of drinkable water allows nature to grow beyond the wall. Making the other side the polar opposite of human intervention and nature rawness.

As time passes with the wall, so as the high ocean tide passes over the sand in the beach. The elevation placement and materiality of the wall allows it to vanish within nature. Instead of becoming a separating wall, the wall disappears to preserve what people want to see. A horizon.

Environmental Impact

The wall is designed to create maximum effect with minimal means. It functions both, as a solar thermal collector and water tank. The top being fixed with 205 Parabolic Trough sections that measure 2.4 meters (8 ft.) in length and run the entire length of the wall. The mirror arrays track the movement of the sun in a northwest to southeast axis. As the sun's rays hit the array, the energy is concentrated above them into an absorber pipe. When the pipe, composed of oils, minerals and water, heats up at a temperature of 400°C it's transferred to the water, producing steam that drives the turbine.

The wall measures 500 meters (1,640 ft.) in length and 6 meters (20 ft.) in height. Its annual energy capacity is 750 MWh. The average American home uses 10,900 kWh annually. This single gesture is able to power approximately 68 homes or could be stored in thermal energy modules for later use. Each panel can be manufactured with off-shelf materials for \$155 US dollars.

Inside of the wall is a Polyolefin mesh, which harvests water from fog. This plastic mesh, a readily and inexpensive material, is able to produce 500 gallons of water for every 6 meters. Ironically, during May grey and June gloom, warm weather transition, more drinkable water can be harvested.

Overall, this wall is constructed out of recycled tube steel and mirrored surface panels on plastic. Part of the break water will become flat to the east side of the wall. The land is a composition of organic elements that belong to nature and sediments that create the platform and encapsulates the power generator underground.