

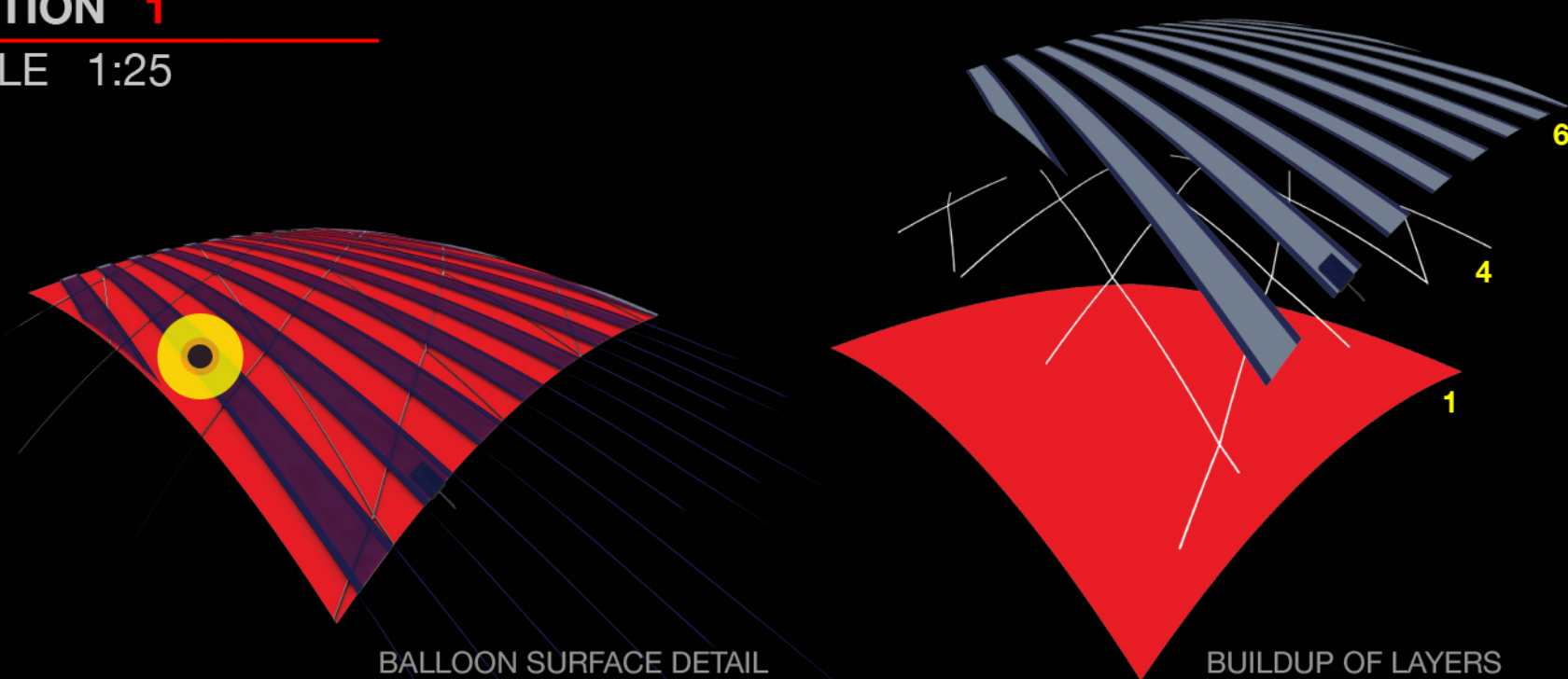
THE SPHERICAL ARRAY OF SOLAR FILM ALLOWS A DYNAMIC WAY OF TRACKING THE SUN'S RAYS THROUGHOUT THE DAY. ENERGY COLLECTED AT THE CELL, PASSES THROUGH A JUNCTION BOX AT THE BALLOON'S SUSPENSION NET, AND THEN TRAVELS DOWN THE TETHER CABLE TO THE LANDING PLATFORM FOR EASY CONNECTION TO THE CENTRAL GRID.

CUTTING EDGE, THIN FILM SOLAR TECHNOLOGY IS PAIRED WITH THE TIMELESS ROMANCE OF MOTORLESS FLIGHT. GLOBAL MANUFACTURERS ARE CONTINUALLY IMPROVING THE SOLAR TECHNOLOGY, INCLUDING NOTABLE CELLS THAT APPROACH 13% EFFICIENCY WITH A 25-YEAR LIFESPAN. LONG STRIPS OF THIS THIN FILM ARE ATTACHED TO A TETHERED HELIUM BALLOON. MANUFACTURED BY SEVERAL INTERNATIONAL FIRMS, TETHERED HELIUM BALLOONS OFFER 20 - 30 PASSENGERS A MEMORABLE 10-MINUTE RIDE UP TO 150 m (500 ft) ABOVE THE PIER. THIS COMBINATION OF TECHNOLOGIES HAS THE POTENTIAL TO SHOWCASE SANTA MONICA'S AMBITIOUS SOLAR INITIATIVE IN A PLAYFUL, FUN WAY FOR YEARS TO COME.

BIG BEACH BALLOON

SITE PLAN
SCALE 1:50

SECTION 1 SCALE 1:25



1 BALLOON
HEIGHT 34 m (105 ft)
NOTE: BELOW TOP OF FERRIS WHEEL WHEN MOORED.
DIAMETER 23 m (72 ft)
VOLUME 5,950 m³ (210,000 ft³)
LIFT 4,800 kg (105,560 lbs)

2 GONDOLA
DIAMETER 6 m (19 ft)
WEIGHT 360 kg (800 lbs)
RING-SHAPED COMPOSITE TUBULAR FRAME WITH CLEAR, IMPACT-RESISTANT ACRYLIC PANELS. ALL PASSENGERS WEAR SAFETY HARNESSES DURING FLIGHT.

3 TETHER CABLE
DIAMETER 22 mm (1 in)
LENGTH UP TO 300 m (984 ft)
HIGH TENSILE STEEL WITH OPPOSING WOUND STEEL.

4 SUSPENSION NET
STRENGTH 41,000 kg (90,390 lbs)
HAND SPLICED, HIGH TENSILE POLYESTER ROPE WITH UV RESISTANT COATINGS.

5 LANDING AND OBSERVATION PLATFORMS
DIAMETER 50 m (164 ft)
LENGTH 80 m (262 ft)
CONSTRUCTION TO MATCH EXISTING PIER - PILES, WOOD BOARDWALK, AND PIPE GUARDRAILS. HIGH AND LOW MOORING POINTS PROVIDED ON LOWER LANDING, AND UPPER OBSERVATION PLATFORMS.

6 THIN-FILM SOLAR CELL
DIMENSIONS (< 1 mm THIN) X (200 mm WIDE) X (> 2 m LONG)
WEIGHT < 1 kg / m²
EFFICIENCY UP TO 13%
STABLE HIGH TEMPERATURE BEHAVIOR. NO TOXIC MATERIALS USED IN PRODUCTION OR FINAL PRODUCT; EASILY RECYCLED. SOLAR FILM CONNECTED WITH DISCRETE JUNCTIONS.

SECTION 2 SCALE 1:25

