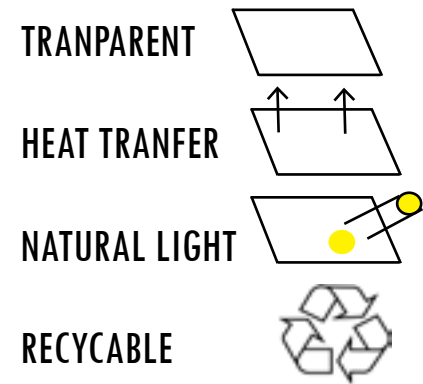


GLASS - CALIFORNIA ACADEMY OF SCIENCES

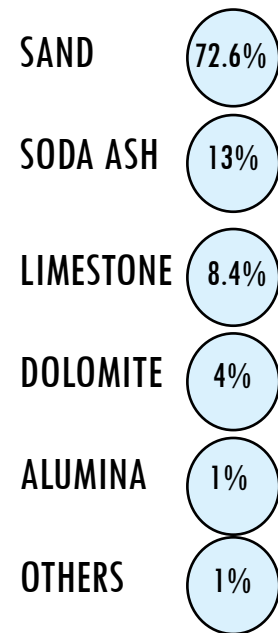
MARY MAHER / MArch / SUSTAINABLE MATERIALS / CSR #1 / 02.21.2023



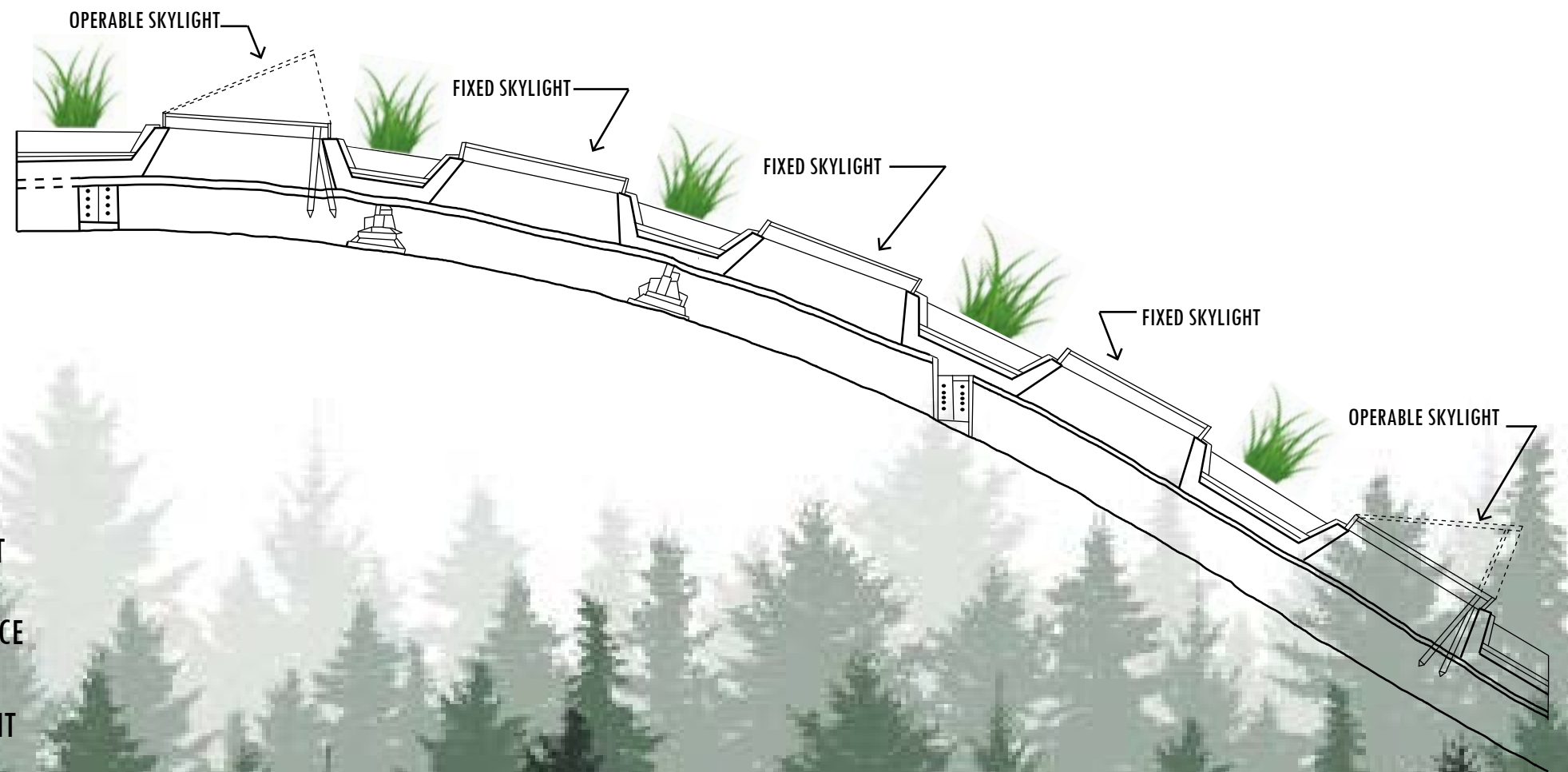
MATERIAL CAPACITY



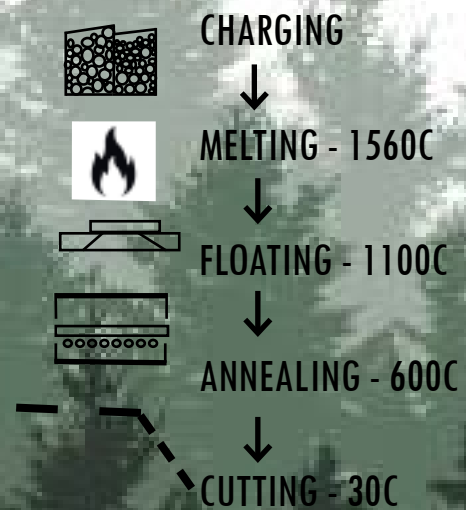
RAW MATERIALS



ROOF SECTION AT RAINFOREST SKYLIGHTS



MANUFACTURING PROCESS



SKYLIGHTS

OPERABLE SKYLIGHT	FIXED SKYLIGHT
-ALLOWS VENTILATION	-SEALED IN PLACE
-OPERATED AUTOMATICALLY	-PROVIDES LIGHT
-RELEASES MOISUTRE	-LEAK PROOF





MARY MAHER
DESIGNS

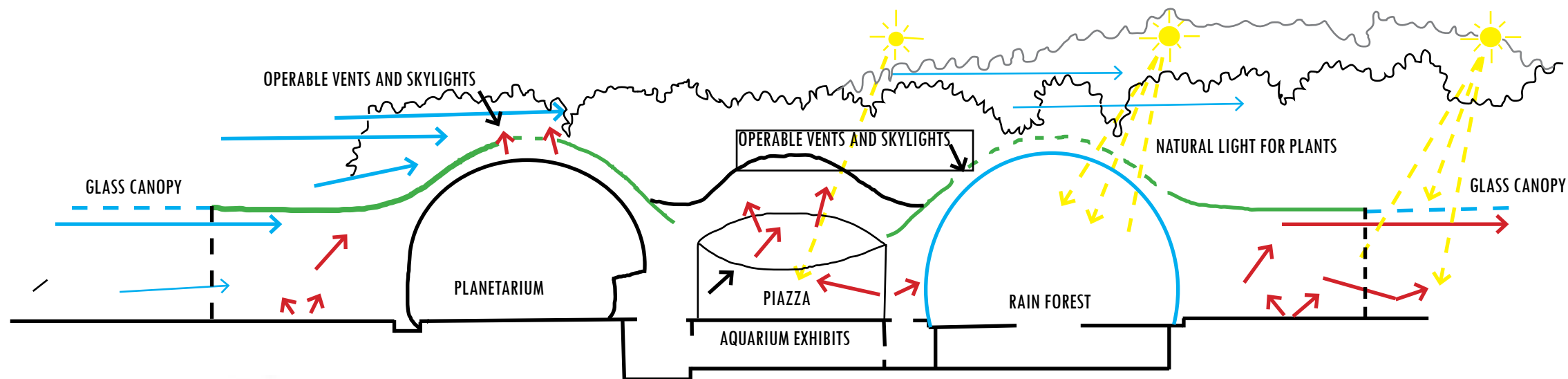
ADAVANTAGES

- ENABLES 90% OF INTERIOR LIGHT FROM NATURAL SOURCES
- NATURAL VENTILATION AND CLIMATE CONTROL
- ENSURE COMPLETE CLIMATE CONTROL AND VENTIATION WITHOUT USING PRIMARY ENERGY SOURCES
- NATURAL LIGHT CREATES HEALTHY ENVIRONMENT FOR NATURE AND HUMANS

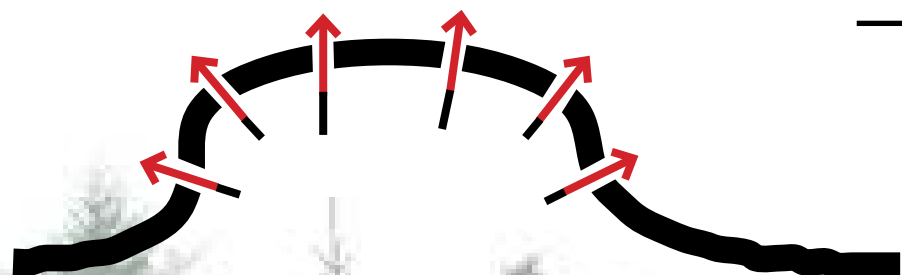
DISADVANTAGES

- LARGE GLASS SPANS POSSES A CHALLENGE IN A EARTHQUAKE PRONE REGION

SUSTAINABLE STRATAGIES DIAGRAM



ROOF WITH GLASS OPENINGS



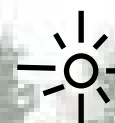
ROOF WITHOUT GLASS OPENINGS



SUSTAINABLE FEATURES



-NATURAL VENTILATION



-DAYLIGHT SENSORS



-RAINWATER HARVESTING



-GREEN OR BROWN ROOFS



-RECYCLED MATERIALS

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