PROGRAM VISIONING

Facility Name:
Lake Havasu City Environmental Learning Center
(Possible alternative: The Center of Water at Lake Havasu City)

Mission:
To promote awareness and stewardship of water and desert resources of the Lower Colorado River region.

Vision:
To be a regional model of sustainability, a collaborative educational resource, and a dynamic destination celebrating all things related to water in the desert.
INDOOR

IN - 1  Water Quality Lab
IN - 2  Multi-purpose Classroom / Event Space
IN - 3  Research and Education Space
IN - 4  Meeting and Study Rooms
IN - 5  Offices
IN - 6  Academic Resource Center
IN - 7  Gift Shop
IN - 8  Food / Restaurant / Cafe
IN - 9  Indoor Farming / Hydroponics
IN -10  Exhibit and Gallery
IN -11  Recreation Resource Center
IN -12  Public Restrooms
IN -13  Signage: Wayfinding

DISTINCT SPACES:

OUT - 1  Parking
OUT - 2  Welcome Garden
OUT - 3  Living Machine Garden
OUT - 4  Stormwater Demonstration Garden
OUT - 5  Amphitheater
OUT - 6  Outdoor Classrooms
OUT - 7  Observatory
OUT - 8  Sculpture Garden
OUT - 9  Native Collection
OUT -10  Botanic Gardens
OUT -11  Nature Preserve
OUT -12  Outdoor Kitchen & Dining (Picnic Areas)
OUT -13  Gathering Spaces
OUT -14  Water / Lake Experience
OUT -15  Dog Park
OUT -16  Multi-Purpose Event Space

REPIITITION ELEMENTS:

OUT -17  Iconic Shade Structures
OUT -18  Habitat Towers
OUT -19  Trails
OUT -20  Lookouts & Vistas
OUT -21  Wayfinding & Interpretive Design
PROGRAM VISIONING
INDOOR

The program spaces proposed will be physically contiguous to the Environmental Learning Center building(s) and landscape.
**Description:**

The Water Quality Lab will be the new location for the Lake Havasu City state certified facility. It will require three types of laboratories for testing the water, and should be a flexible space for both the lab scientists as well as visiting guests.

**Program Spaces:**

- Chemistry Lab
- Microbiology Lab
- Research Lab
- Receiving Area
- Storage / Supply Room
- Chemist’s Office
- Break / Lunch Room
- Conference Room
- Restrooms

**Space Qualities + Aspirations:**

- Natural Light
- Connect to the Public - Visibility / Exhibit Opportunities
- Education Opportunities
- Integration with Nature and the Water Cycle
- Optimal Thermal Control
- Variety of Smart Equipment

- a. Filtered light from adjacent shaded exterior space
- b. Natural light via skylights
- c. Integration of nature and landscape into the lab
- d. Visible connection into the lab
Program visioning

IN-2 MULTI-PURPOSE CLASSROOM / EVENT SPACE

Description:
The Multi-purpose classroom space will be flexible and adaptable to the evolving needs of the facility. Will be designed to accommodate a range of classroom sizes and activities. Will accommodate large events by physically connecting to adjacent exterior space. As well as catering to multiple disciplines including schools, universities, government agencies, water authorities, and Lake Havasu City.

Program Spaces:
Flex Classroom: 50-150 persons
Lecture Accommodations
AV

Space Qualities + Aspirations:
Flexibility
Natural Light
Flexible Seating
Connection to Nature
Interactive Technology
Opens to Exterior Event Space
Desert Water Education: DA Drops

a. Shared communal classroom
b. Traditional classroom setting
c. Variable flexible seating
d. Opens to exterior event space
Description:
The research and education space will make the Lake Havasu City Environmental Learning Center the nexus for Water research and Education in the Southwest. The research can be accompanied by educational opportunities in the spirit of discovery and play engaging all users of the ELC in the effort of collecting and disseminating data.

Program Spaces:
Exhibition Space
Small Research / Study
Exploratorium
Testing / Prototyping Space

Space Qualities + Aspirations:
Adaptable over time
Central mixer opportunities
Engaging Program
Seminars and Lectures
Water + Nature Education
Research Partnerships with Research 1 Institutions
The Open Water Project

a . Interior / exterior testing - prototyping
b . Discover + Play - exploratorium
c . Flex work space for various research initiatives
d . Testing lab space
Description:
Meeting and Study Rooms should be a variety of spaces for both the permanent users to reserve space as well as locals to engage in community events and gathering. The variety of size of space is meant to tailor the use to all occasions from the large city meetings to the smaller student study spaces.

Program Spaces:
- Large Conference Room - 15-20 persons
- Medium Meeting Room - 8-10 persons
- Flexible informal study / meeting space - 3-5 persons
- Study Room Small - 1-2 persons

Space Qualities + Aspirations:
- Flexible Seating
- Natural Daylight
- Individual vs. Group space
- Zones for Loud and Quiet spaces
- Located in Common Areas
- Collaboratives & chance meeting opportunities

a. Group meeting and study space
b. Breakout informal zones
c. Individual study space
Description:
Private offices will accommodate the facilities permanent staff & visiting researchers.

Program Spaces:
Private Offices- 3-5
Open Offices
Co Working Opportunities

Space Qualities + Aspirations:
Privacy Walls
Visible Partitions
Daylight
Communal desk spaces for collaboration
Office emphasis on nature and water

a . Individual offices, connection to nature
b . Co-working space
c . Collaborative open space + semi-private
Description:

This space is envisioned as an environment focused on discovery through experiential learning. Digital & physical learning opportunities will define this space.

Program Spaces:

- Maker Space
- VR Stations
- AR Supplementation
- Physical and Digital Models
- Water Data Availability + Access
- Traditional “Library” Accommodations

Space Qualities + Aspirations:

- Geographical Connection (Physical Model)
- Digital Library
- Interactive Space
- Large Open Area
- Mixed Media
- Collaborative Tables
- Library of Water

a. Physical model
b. Augmented Reality + geography (water)
c. Maker space + collaborative tables
d. VR experiences of water and Lake Havasu
Description:
Community & regionally focused gift shop, engage in the local community to sell and provide Lake Havasu specific goods. It could also be a farmers market, flea market, or pop up shops for local vendors.

Program Spaces:
Interior + Exterior Flexible Space
Display tables and shelving
Rent-able Stalls
Possible Connection with Cafe

Space Qualities + Aspirations:
Open naturally lit floor area
Move-able furniture
Sharing of ideas and goods
Leave a gift not just take: giving back to the site
Marketplace atmosphere

a. Interior / Exterior market stall spaces
b. Community rent-able pop up shops
c. Traditional gift shop - local artists
Description:
Innovative regionally inspired cafe / restaurant providing accessory type accommodations for ELC, but also clear opportunities as a destination.

Program Spaces:
Cafe / Coffee Bar / Restaurant
Full Services Kitchen
Catering Kitchen
Dining Room

Space Qualities + Aspirations:
Natural Light
Direct connection to the water + vegetation
Group seating in large dining space
Visible process of food production
Flexible event space
Possible connection with indoor farming exhibit
Open comfortable setting suitable for public + private affairs

a. Picnic Space
b. Interior + Exterior flexibility
c. Visual connection to food preparation
d. Visibility between restaurant and food production
Description:
An indoor farming and hydroponics lab and exhibit space for many users to engage. A space for both education and research as well as providing the food production to the restaurant/cafe. The space can become a sustainable example for food production in the region.

Program Spaces:
Hydroponics Lab
Aeroponics Lab
Indoor Farming Exhibit

Space Qualities + Aspirations:
Natural Light
Connection to Adjacent Program

a. Natural light into exhibit
b. Indoor farming lab
c. Hydroponics workshops
IN-10  EXHIBIT AND GALLERY SPACE

Description:
A gallery and exhibition space to showcase local art as well as provide a different medium to communicate the importance of water. Opportunity to be used as connective “tissue” that joins ELC spaces together.

Program Spaces:
- Interior / Exterior Space
- Community Art Studios
- Exhibition Space

Space Qualities + Aspirations:
- Daylight
- Large open gallery, variety of display options
- Private viewing areas
- Collaborative studio environment
- Less of a traditional gallery and more so floating art throughout the project

- Variable display flexibility
- Community art studios
- Connective tissue exhibit / gallery space
- Flexible gallery space + contextual reference
Description:
The Recreation Resource Center can become a space for locals and tourists to engage with the local recreation amenities. The space can be both an office space for the inhabiting organization and also an amenity for the visitors.

Program Spaces:
- BLM or Private Outfitter Office
- Recreation Storage
- Rent-able Equipment Space
- Event Space
- Information Desk
- CAP

Space Qualities + Aspirations:
- Direct connection to the landscape
- Visible advertisement (equipment showcased)
- Flexible event space for all times of year
- Rentals: Bikes, Camping, Backpacking, Fishing, Birding, etc...

- Bicycle storage and rentals
- Flexible event space
- Direct connection to landscape
Description:
Public restrooms for the visitors and local users of the ELC. The bathrooms should be functional for the variety of users.

Program Spaces:
- Women’s Restroom
- Men’s Restroom
- Family Changing Room
- Lockers / Storage

Space Qualities + Aspirations:
- Bright Naturally Lit Restrooms
- Contextual Materials

- Light and Material
- Natural Light - outdoor
- Locker Storage
Description:
Wayfinding in the Environmental Learning Center is important to locate the varying programs. Within this wayfinding system we can incorporate intuitive tools and subtle direction markers.

Program Spaces:
- Signage - Exterior
- Signage - Interior
- Directional Cues
- Donor Signs

Space Qualities + Aspirations:
- Intuitive Wayfinding (tactile interaction)
- Evolving Signage

a. Donor Signage
b. Evolving Wayfinding
c. Sensory Wayfinding
PROGRAM VISIONING
OUTDOOR

The program spaces proposed will be physically contiguous to the Environmental Learning Center building(s) and landscape.
OUT-1
PARKING AND PAVING

Description:
Rethink parking lots with reducing the radiating heat and providing shade through natural or regenerative options. Paving can become different materials to reduce the amount of heat that is absorbed and radiated.

Program Spaces:
Parking Lot
Alternative Sidewalks
Shade

Space Qualities + Aspirations:
Stabilized Decomposed Granite / gravel
Desert Trees as parking markers and shade
Vegetation screens
Permeable Surfaces

a. Stabilized DG parking with shade
b. Trees as parking spot markers
c. Visually improved when empty
OUT-2

PROGRAM VISIONING
WELCOME GARDEN

Description:
The front entrance of Lake Havasu City Environmental Learning Center can make an important first impression on visitors, providing a sense of arrival and setting the stage for the rest of the site. The Welcome Garden should have clearly defined paths integrating color, varying plant height, iconic site structures and/or special features that both accentuate the entrance and entice visitors to explore and see what’s beyond.

Program Spaces:
Pollinator Garden
Seating Area
Drop off/Pick up Area

Space Qualities + Aspirations:
Local and/or Natural Materials
Native Vegetation
Integrated Stormwater
Iconic Shade Structure or Sculpture

A. Clearly defined path
B. Welcoming planting
C. Iconic sculpture
Description:
As a central component to the Lake Havasu City Environmental Learning Center, a living machine could illuminate ecological sewage treatment and water use and reuse within the building, labs, and landscape. Incorporating waste-water management that demonstrates a series of ecosystems that process and filter black water near the center will reinforce the water education on site by providing a unique experience to visitors as well as contributing to the site’s overall water management plan. The Living Machine can be an amenity for both demonstration and educational purposes to use recycled effluent water for adjacent gardens.

Program Spaces:
Filtration Gardens
Outdoor Education Labs
Testing / Prototyping Space

Space Qualities + Aspirations:
Adaptable over time
Water + Waste Education
Research Partnerships with Research Institutions
Aligned with the Open Water Project
Net-Zero Water Use
Native Vegetation
Revelatory Design

a. Interactive demonstration features
b. Demonstration terraces (limited access)
c. Demonstration (no access)
Description:
Welcoming and attractive stormwater demonstration gardens can serve as a valuable education tool as well as provide opportunities to experiment with innovative techniques. Highlighting stormwater capture and potential reuse can bolster on-site environmental education and understanding of water as a precious resource. Constructed wetlands for demonstration can be used as an outdoor laboratory for on-site research and data collection. Stormwater capture and reuse will emphasize Lake Havasu City’s sustainability initiatives.

Program Spaces:
- Constructed Wetlands/Staged Treatment Areas
- Rain Gardens and Bioswales
- Boardwalks and bridges
- Outdoor Laboratory

Space Qualities + Aspirations:
- Local and/or Natural Materials
- Vegetation screens
- Native Vegetation
- Revelatory Design
- Water Data Availability + Access
- Supports Research and Observation

a. Gabions as habitat
b. Local boulders as seating and edges
c. Elevated boardwalks providing interactive experiences
d. Constructed wetlands
Description:
An amphitheater could provide spaces for events, theater, music performances, etc. Potential for multiple scales across the site to double as areas for outdoor classrooms, places for groups to congregate, or for individuals to relax or picnic.

Program Spaces:
- Large amphitheater (100 seats)
- Medium amphitheater (50 seats)
- Small amphitheater (10-20 seats)

Space Qualities + Aspirations:
- Local and/or Natural Materials
- Stepped Seating
- Shaded Portions
- Lounge Seating
- Native Planting
- Acoustic Qualities
- Wired for Events

a. “Naturalized” using local materials
b. Stepped seating integrating landscape
c. Stepped seating following site contours
d. Sculptural forms
Description:
Outdoor classroom space should be as flexible as possible. Students and visitors from partnering universities could use these outdoor classroom spaces to gather together and learn about the importance of water, waste, and ecology of the surrounding area.

Program Spaces:
- Medium Classrooms: 25-50 persons
- Small Classrooms: 10-25 persons
- Small Study Areas: 1-5 persons
- Flexible shared gathering space
- “Natural” Classroom

Space Qualities + Aspirations:
- Flexibility
- Connection to Nature
- Desert Water Education: DA Drops
- Shade
- Seating
- Revelatory Design

- Natural materials in alternative set up
- Class as a stage
- Natural and built creating flexible space
- Restoration as classroom
Description:
The clear desert air and remote location of Lake Havasu provides incredible views of the night sky. Here scientists, researchers and visitors can learn about the stars and sky. Incorporating an observatory offers additional scientific program to Lake Havasu City Environmental Learning Center as well as potential research programs and partnerships. An astronomy program will also draw locals and visitors to the center during nighttime hours. Monoliths could guide visitors to observe the sky using only their eye. During scheduled open house nights, smaller diameter telescopes could let visitor’s see astronomical objects up close. A planetarium projects the night sky indoors where students learn about constellations, legends from many different cultures, and concepts that help them understand astronomy.

Program Spaces:
Outdoor Naked Eye Observatory
Telescope Observatory
Planetarium
Nocturnal Wildlife Garden

Space Qualities + Aspirations:
Curated Lighting and Framed Views to the Sky
Seating and Space for Night Lectures
Dark Skies Design
Habitat for Nocturnal Species

a. Naked Eye Observatory
b. Historic and local materials
c. Telescopic Portal
d. Framed view to the Sky
Description:
A Sculpture Garden could provide a quiet and beautiful landscape retreat to view a magnificent collection of modern, contemporary, or environmental sculpture to support lectures or artists talks. Incorporating site specific, temporary, or loaned/purchased pieces in the landscape will be an attraction for locals as well as tourists. Potential locations could include a portion of the Native Collection or Botanic Garden. Sculpture should include various scales and levels of interaction providing a framework for local, emerging and prominent artists.

Program Spaces:
- Singular Sculpture Garden Rooms
- Outdoor Gallery
- Viewing Platforms
- Seating Areas

Space Qualities + Aspirations:
- Native Planting
- Framed Outdoor Gallery Rooms
- Flexible Design for works of Varying Scale and Material
- Simple Backgrounds
- Acoustically separate for Soundscapes
- Seating
- Paths

- a. Site specific art that celebrates surroundings
- b. Aeration and sound
- c. Incorporating play and art
- d. Site specific temporary land art
Description:
Highlighting the local ecology with native plants, potentially grown on site, furthers Lake Havasu City Environmental Learning Center’s commitment to sustainability. Visitors will witness the natural wonder and temporal qualities of the landscape. The Native Collection should serve as the framework for the site’s landscape approach to stitching the campus together. Incorporating greenhouses and nurseries (potentially sharing a boundary with the botanic garden) could continuously supply the site and adjacent properties with native plants and act as an economic resource. Additionally, the Native Collections could include test plots for analysis of the impacts of climate change.

Program Spaces:
Curated Collections of Native Species
Nursery
Greenhouse
Seating Areas
Outdoor Classrooms
Trails, Vistas, and Lookouts
Seed Bank

Space Qualities + Aspirations:
Interpretive Design
Native Planting
Signage and wayfinding
Paths
Integrated Stormwater and Irrigation
Seed Collection and Storage
Highlight Seasonal Change and Native Species
a. Integrated Seating spaces
b. Framed Blooming areas
c. Highlighting seasonal change
Description:
A special collection of flora from complementary desert biomes to Lake Havasu could contribute to the Lake Havasu City Environmental Learning Center on-going research by incorporating botany. Botanic gardens will also provide a potential source of revenue from visits, lectures, and special events.

Program Spaces:
Desert Collections from around the world
Seating Areas
Outdoor Classrooms
Trails, Vistas, and Lookouts
Shaded Areas for Rest and Respite

Space Qualities + Aspirations:
Specimen Planting
Signage and wayfinding/Interpretive Design
Paths
Integrated Stormwater and Irrigation
Curated, artful plant arrangements
Seasonal Change
Day and Night Gardens

a. Specimen planting
b. Layering plant material
c. Incorporating art or iconic structures
d. Curating fauna to create moments of interest
Description:
A protected area of importance for wildlife, flora, fauna and features of geological or other special interest could be reserved and managed for conservation and to provide special opportunities for study or research. Serving as a complement to the Native Collections and Botanic Gardens, the design and construction of a Nature Preserve will reflect the site in its natural state allowing the Lake Havasu City Environmental Learning Center an additional laboratory/outdoor classroom as well as protecting space for wildlife to live and flourish.

Program Spaces:
Preserved Landscape
Limited Paths
Rest Stops
Wildlife Blinds
Research Stations

Space Qualities + Aspirations:
Preservation of Intact Native Ecologies
Limited Signage and wayfinding
Limited Access
Protected from Noise and Light Pollution

- Creating corridors for wildlife
- Minimizing human impact
- Viewpoints for nature watching
Description:

Taking advantage of natural light, or a particularly beautiful view and the celebration of indoor outdoor experiences, the site could host an outdoor kitchen and several associated outdoor dining areas. Here architecture and landscape could be integrated with outdoor patio spaces located adjacent to programmed architecture as well as scattered dining areas throughout the site offering visitors a plethora of dining experiences from seated dining to more informal picnic spaces. An outdoor kitchen could be used to cook locally grown produce as well as host cooking classes in a spectacular setting.

Program Spaces:

Formal Outdoor Dining Room
Cafe Dining Space
Picnic Areas
Outdoor Kitchen/Cooking Areas
Kitchen Garden

Space Qualities + Aspirations:

Shade
Able to host different sized gatherings
Universal Design
Comfort throughout year and day/night (heat, shade, materiality)
Flexibility
Plumbed and Wired

a. Flexible space to dine
b. Outdoor dining room
c. Covered picnic areas
d. Flexible space to cook for multiple groups
Description:
A key component to the Lake Havasu City Environmental Learning Center could be a series of flexible gathering spaces located throughout the site and programmed areas. Gathering spaces should vary in scale and materiality to include areas that are complementary to both children, families, seniors and groups of all sizes. These spaces can be educational and immersive experiences, vistas, outdoor dining and classrooms.

Program Spaces:
- Small Scale Gathering Spaces (1-5 people)
- Medium Scale (5-10 people)
- Large Scale Gathering Spaces (10+ people)

Space Qualities + Aspirations:
- Seating Area
- Immersive Environment
- Framed Views

a. Small group areas within the landscape
b. Highlighting Lake Havasu
c. Corridors as gathering space
d. Large flexible spaces for multiple sized groups
**Description:**
With water being such an important key part of Lake Havasu City and the connection to the environment. There should be a moment on the water that engages the user and the lake in a different way in which they interact traditionally.

**Program Spaces:**
- Reflection Space
- Seating and Lounging Area
- Outdoor Classroom

**Space Qualities + Aspirations:**
- Opportunity for education
- Physical connection to water
  - a. Space on the water
  - b. Physical interaction
  - c. Public Amenity
OUT-15

Description:
A dog park for the community will help add a public amenity to the site. Dog park as a program can accompany with many other program elements.

Program Spaces:
Shade Pavilion
Permeable ground cover / trails
Water Source

Space Qualities + Aspirations:
Seating Area
Garden and Dog Park Coincide

a. Art + utility boundary
b. Water presence
c. Large off leash park
d. Accompanying garden (xeriscape)
OUT-16 MULTI-PURPOSE EVENT SPACE

Description:
An exterior space that can accommodate an influx of people for large events but also have the ability to host smaller groups at one time. Work in both a formal and informal setting. A space of public gathering.

Program Spaces:
- Shading
- Seating
- Connection to interior event space

Space Qualities + Aspirations:
- Shading
- Seat

Options:
- a. Flexible multi-use
- b. Large formal event space
- c. Informal gathering
Description:
Iconic shade structures will not only create a comfortable micro-climate for visitors, but can serve as distinctive landmarks guiding visitors to various areas of the site. Additional benefits include relief from the wind, dust, the sun, rain, and noise. Materiality should reflect the site’s unique settings and reveal or enhance temporal and ephemeral characteristics such as wind, light and shadow.

Program Spaces:
- Corridor covering
- Gathering spaces
- Picnic/Outdoor Eating Areas
- Amphitheater
- Outdoor Classrooms

Space Qualities + Aspirations:
- Local Materials
- Inspired by Native Landscape
- Vegetation screens
- Energy or Water Harvesting
- Kinetic structures
- Shadow-casting and/or Sculptural

- Colorful materials to provide interest beyond
- Art or temporary pieces
- Mesh or fabric
Description:
Habitat towers provide much needed refuge for local fauna or allow people to view wildlife. Towers can be constructed with multiple “floors” to mimic nature. The ground floor becomes a home for insects, squirrels, tortoises, etc. while the top floor provide habitat for birds like the burrowing owl and bats. Adding vegetation supplies food and coverage from predators. In restoration, habitat towers can provide a home for displaced species and are interesting monuments in the landscape. Additionally, habitat towers can double as observation platforms or towers framing vistas of Lake Havasu and the surrounding desert landscape.

Program Spaces:
Habitat Garden
Living Laboratory
Outdoor Classroom
Habitat for wildlife

Space Qualities + Aspirations:
Local and/or Natural Materials
Verticality
Vegetation screens
Iconic Memorable Design
Punctuations/Follies in the Landscape
Mimicking Nature

a. Structure constructed of natural materials
b. Habitat and lookout combined
c. Vegetated structure
Description:
A planned trail network at Lake Havasu City Environmental Learning Center will allow users to explore the site in its entirety, from the Center to the lake and create a connection to the main access road and Lake trail system. Designated trails for pedestrians including their dogs, cyclists, and equestrians allow for an organized flow and management while maintaining sensitive habitat areas.

Program Spaces:
- Single Use Trails
- Multi-Use Trails (Pedestrian, Bicycle and Equestrian)
- Trail Network
- Connection to Lake Trail
- Integrated Lookouts and Vistas

Space Qualities + Aspirations:
- Low Impact for a light tough through habitat
- Safe/ADA
- Natural Materials
- Universal Design

a. Art as a way to navigate visitors
b. Using interesting material to navigate visitors
c. Simplified markers
Description:
Lookouts and vistas could be created at elevated locations throughout the site creating curated viewpoints into the landscape. These locations could also be associated with seasonality, time of day or wildlife migration.

Program Spaces:
Vistas
Lookouts
Rest Stops

Space Qualities + Aspirations:
Local and/or Natural Materials
Design Inspired by Native Landscape
Framing and/or Highlighting Views

a. Small scale landmark
b. Boardwalk to vista
c. Vertical structure
d. Bird blinds
e. Vista point
Description:
Wayfinding and Interpretive Design can serve as an important and powerful tool to inform, direct, and guide people who are unfamiliar with the site and the environment. Important information should be displayed at strategic points throughout the facility providing information about habitat and environment. In addition, creative wayfinding and interpretation can strengthen the site’s messaging reflecting its identity while providing important information about the site.

Program Spaces:
Gateways and Trailheads
Maps
Mile Markers
Educational Signage
Interpretive Exhibits

Space Qualities + Aspirations:
Signs at multiple scales
Messages can be east-to-read
Signs are well located
Information is clear and relevant
Sign design is consistent/Unified
Exterior and interior systems work in harmony
Sign systems offer flexibility for future updates and additions
Graphic symbols for people of all languages
Digital/App Integration

a. Alternative trail maps
b. Signage that reacts to the landscape
c. Mile marker for trails
d. Multi-use signs (bench as sign or directions)
PROGRAM VISIONING
IMAGE SOURCES
Water Quality Lab
A. ASU Polytechnic ISTB III, Mesa, Arizona
B. Sainsbury Laboratory, Cambridge, UK
C. ASU Polytechnic ISTB III
D. National Lab for Genomics Laboratory, Irapuato, Mexico

Multi-Purpose Classroom
A. National Lab for Genomics Laboratory, Irapuato, Mexico
B. The Activity and Dance Center, Quesnoy-Sur-Deule, France
C. Beus Center for Law and Society, Phoenix, Arizona
D. Beus Center for Law and Society, Phoenix, Arizona

Research and Education Space
A. 071 Ecotron Hasselt University, Maasmechelen, Belgium
B. Exploratorium, San Francisco, California
C. Research Center ICTA-ICP, Barcelona, Spain
D. CAPLA, Tucson, Arizona

Meeting and Study Rooms
A. Mohave Community College, Kingman, Arizona
B. Jungle Station, Ho Chi Minh, Vietnam
C. Lightspeed Office, Montreal, Canada

Offices
A. CAPLA, Tucson, Arizona
B. WeWork Moorgate, London, UK
C. New Pizzolante HQ, Caracas, Venezuela

Academic Resource Center
A. Landessmuseum, Zurich, Switzerland
B. Landessmuseum, Zurich, Switzerland
C. Innovation Lab, San Diego, California
D. Halton Hills Library, Ontario, Canada

Gift Shop
A. Phoenix Flea Market, Phoenix, Arizona
B. Ferry Building, San Francisco, California
C. Getty Villa Gift Shop, Los Angeles, California

Food / Restaurant / Cafe
A. Gastropolis, Quito, Ecuador
B. Campobaja, Mexico City, Mexico
C. The French Laundry, Yountville, California
D. The Green House, Utrecht, Netherlands

Indoor Farming / Hydroponics
A. Market at Vertical Harvest, Jackson, Wyoming
B. The Green House, Utrecht, Netherlands
C. Santa Fe CC Aquaponics Greenhouse, Santa Fe, New Mexico

Exhibit & Gallery
A. Sao Paolo Museum of Art, Sao Paolo, Brazil
B. The Art Studio, New York, NY
C. Wasit Nature Center, Sharjah, UAE
D. CAPLA, Tucson, Arizona

Recreation Resource Center
A. ASU Bike Valet, Tempe, Arizona
B. Shelby Farms Park, Memphis, Tennessee
C. Wasit Nature Center, Sharjah, UAE

Public Restrooms
A. Oslo Opera House, Oslo, Norway
B. Wembley WC Pavilion, Wembley, UK
C. Laminate Lockers, San Francisco, California

Signage / Wayfinding
A. Syracuse University, Syracuse, New York
B. Yale Art Gallery, New Haven, Connecticut
C. Sensory Meadow, Tempe, Arizona
IMAGE SOURCING: OUTDOOR

Parking
A. Cavalliere Park, Scottsdale, Arizona
B. Jones Studio Office, Tempe, Arizona
C. Jones Studio Office, Tempe, Arizona

Welcome Garden
A. Casa Meztitla, Tepoztlan Mexico
B. Sidwell Friends School, Washington D.C
C. Houtan Park, Shanghai

Living Machine Garden
A. Casa Meztitla, Tepoztlan Mexico
B. Sidwell Friends School, Washington D.C
C. Houtan Park, Shanghai

Stormwater Demonstration Garden
A. Renaissance Park, Chattanooga, Tennessee
B. Natural History Museum, Los Angeles
C. Tanner Springs Park, Portland
D. Sydney Park, Sydney Australia

Amphitheater
A. Barcelona Botanic Garden, Barcelona Spain
B. Harrington Grove Country Club, Camden, Australia
C. Velenje Promenada, Velenje, Slovenia
D. Green Acres (Athena Tacha), Trenton, New Jersey

Outdoor Classrooms
A. Water + Life Museum, Hemet, California
B. St. Martinus Primary School, Megehean Netherlands
C. Give Peace a Chance (Linda Covit & Marie-Claude Séguin), Montreal, Canada
D. Brooklyn Botanic Garden, Brooklyn

Observatory
A. Brasstown Bald Observatory, Hiawassee, Georgia
B. Desert View Watchtower, Grand Canyon, Arizona
C. Mount Evans Observatory, Mt. Evans, Colorado
D. Floating Observatory (Marc van Vliet), Terschelling, Netherlands

Sculpture Garden
A. Mirrors (Anish Kapoor)
B. Garden Fountain, Luis Barragan
C. Roombeek the Brook, Enschede, Netherlands
D. Curves and Zigzags (Claudia Comte)
The Circle of Land and Sky (Phillip K. Smith III)
Dynamic Relaxation (HG-Architecture)

Native Collection
A. College of Environmental Design, University of California, Davis
B. Serpentine Gallery Pavillion, London
C. Tivoli Congress Center, København, Denmark

Botanic Gardens
A. Phoenix Botanical Garden, Phoenix, Arizona
B. Huntington Gardens, San Marino, California
C. Cotillion Park, Dallas, Texas
D. Phoenix Botanical Garden, Phoenix, Arizona

Nature Preserve
A. Puritama Hot Springs, San Pedro de Atacama, Chile
B. MacKenzie Falls Gorge Trail, Grampians National Park, Victoria
C. Sandy River Delta Park, Triutdale, Oregon

Outdoor Kitchen and Dining
A. Embers, South Africa
B. Prinzessinnengarten, Berlin, Germany
C. Lois, Cornice Paesaggistica, Bressanone, Italy
D. Outdoor Catering Kitchen

Gathering Spaces
A. Art Park Pavilion, Kanaleneiland, Netherlands
B. Sunken Observation Deck, Voelklabrack, Austria
C. Green Train Station
D. Public Space, Gora Pulawiska, Poland

Water / Lake Experience
A. Float Lab, Philadelphia, Pennsylvania
B. Munster Sculpture Project, Munster, Germany
C. Float Lab, Philadelphia, Pennsylvania

Dog Park
A. Newport Civic Dog Park, Newport Beach, California
B. Fred Anderson Dog Park, Chicago, Illinois
C. Chaparral Dog Park, Scottsdale, Arizona
D. Chaparral Dog Park, Scottsdale, Arizona

Multi-Purpose Event Space
A. Shelby Farms Park, Memphis, Tennessee
B. Orquideorama, Medellin, Colombia
C. Orquideorama, Medellin, Colombia

Iconic Shade Structures
A. Shade Structure, Burning Man
B. Floating Pavilion, Taipei City, Taiwan
C. MPavillion (Amanda Levete), Melbourne, Australia
D. Invisible Borders (MAD), Milan
E. Houtan Park, Shanghai

Habitat Towers
A. Landesgartenschau Hemer, North Rhine-Westphalia, Germany
B. Aussichtsturm Reussdelta, Vrin, Graubünden.
C. Ishihara Park, Santa Monica, California

Trails
A. Fernbank Museum WildWoods, Atlanta, Georgia
B. MacKenzie Falls Gorge Trail, Grampians National Park, Victoria
C. Cap de Creus Cape, Cadaqués, Catalunya, Spain

Lookouts and Vistas
A. Cap de Creus Cape, Cadaqués, Catalunya, Spain
B. Martin Luther King Park, Paris, France
C. Vlooyberg Tower, Tielt-Winge, Belgium
D. Owns Lake, California
E. Observation Deck, Quilotoa, Ecuador

Wayfinding & Interpretive Design
A. Trail Registry, Joshua Tree, California
B. "
C. Parc Riu Llobregat, Barcelona, Spain
D. Pirrama Park, Sydney, Australia