





Sharing the Forest **Asian Tigers & Bears Exhibit**

25 % Design Development Briefing

Seattle Design Commission

17 November 2011

Monica Lake

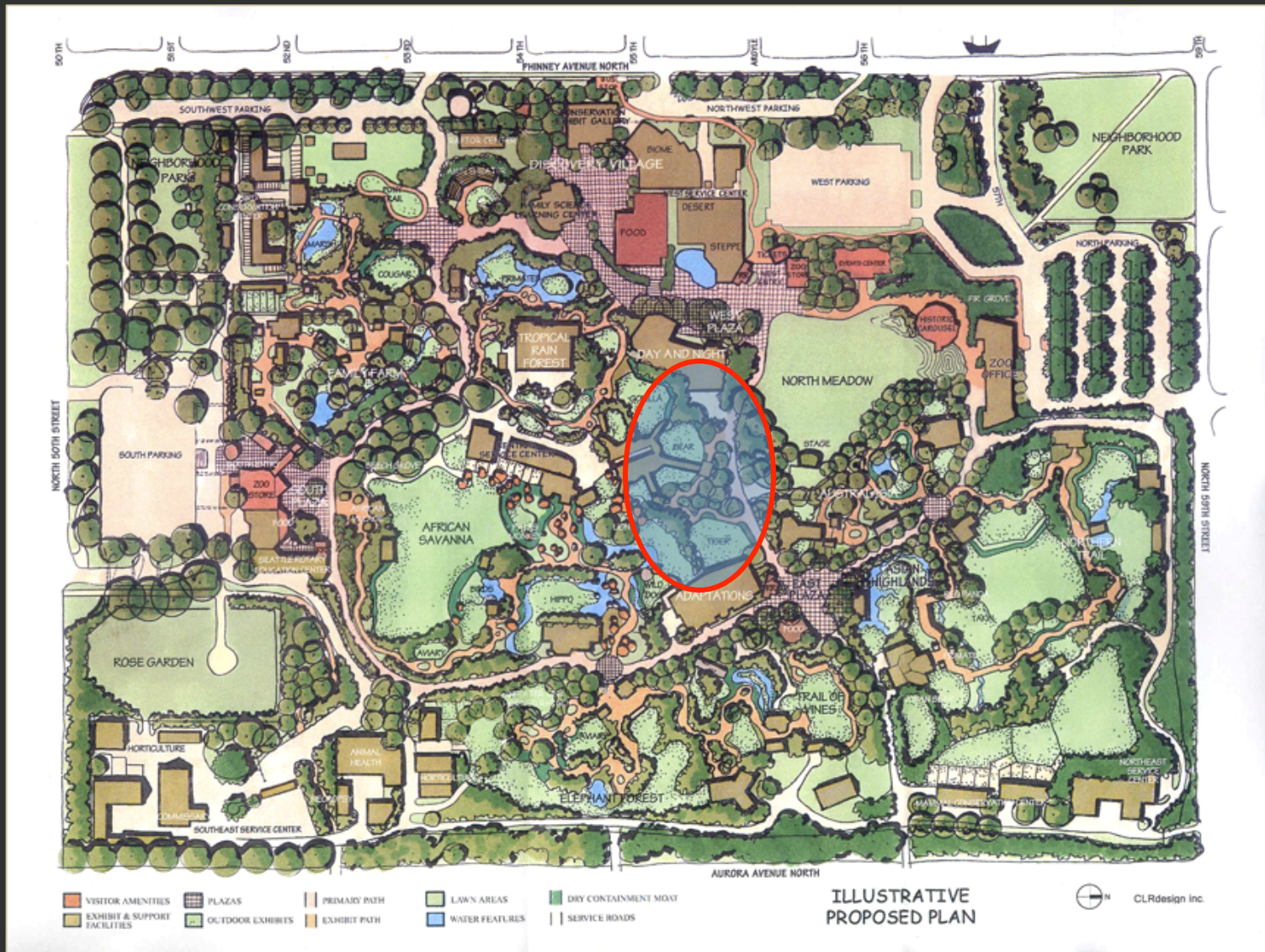
Project Manager,
Woodland Park Zoo

Becca Hanson

Partner-in-Charge,
Studio Hanson/Roberts

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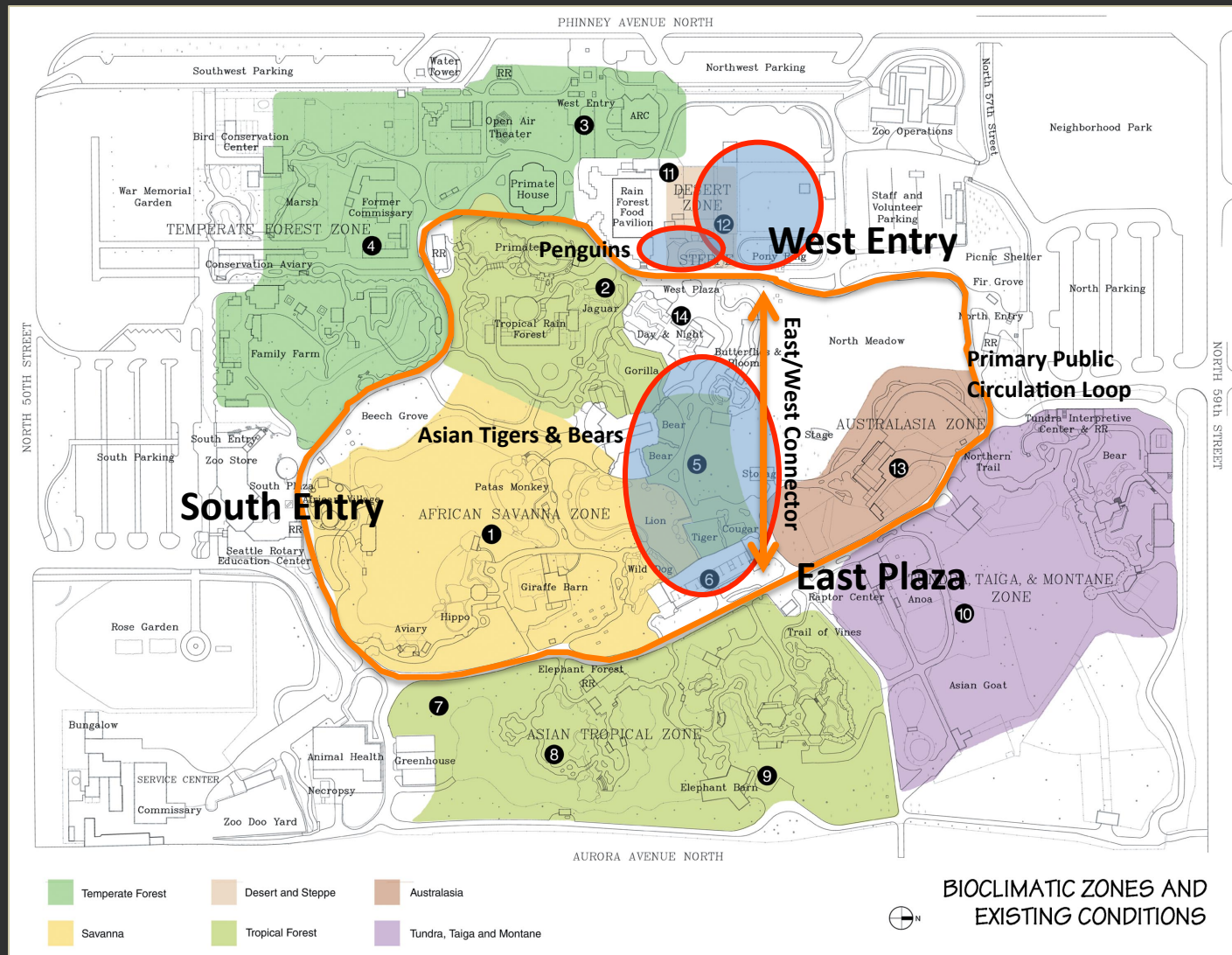
The Master Plan



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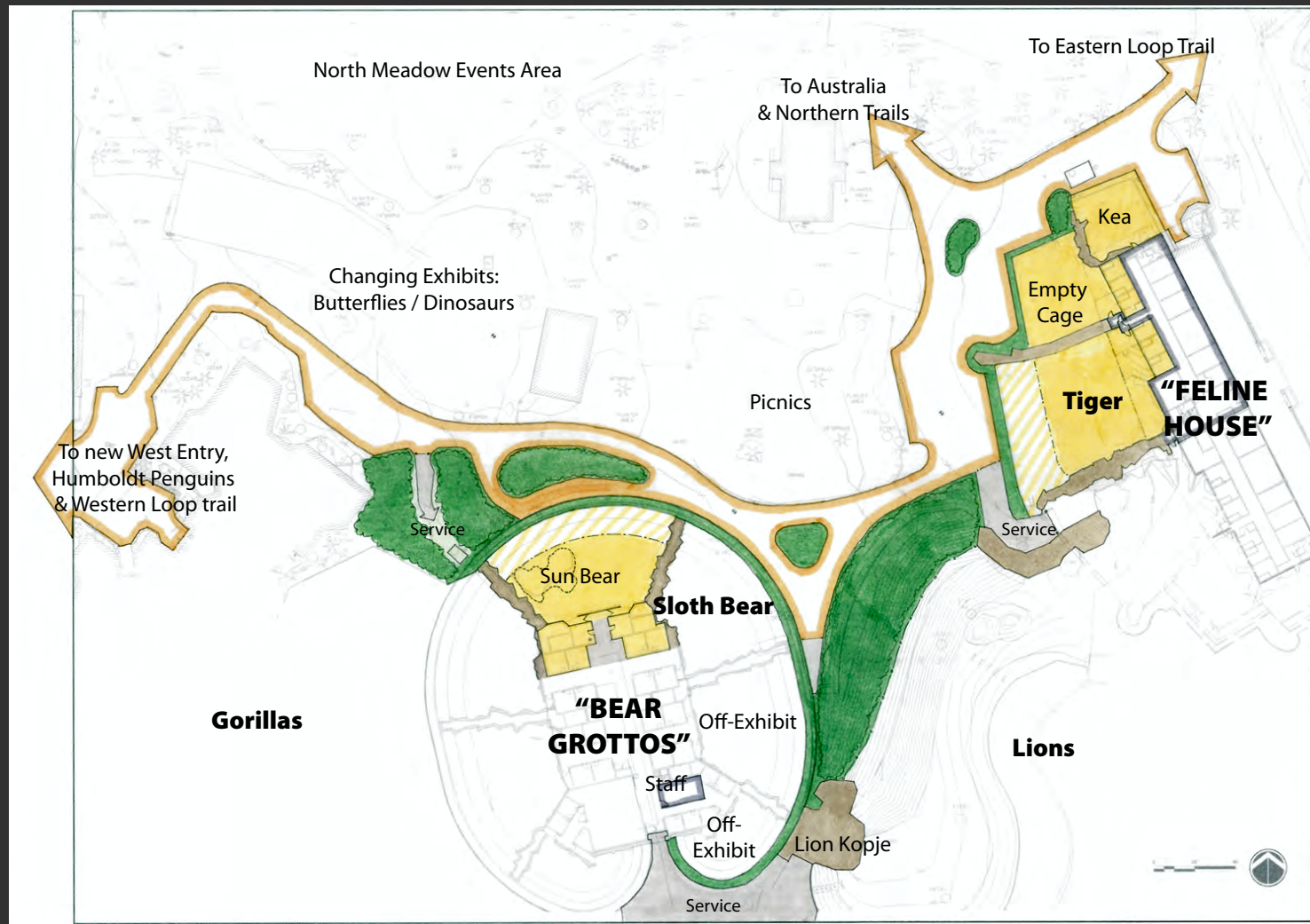
The Master Plan



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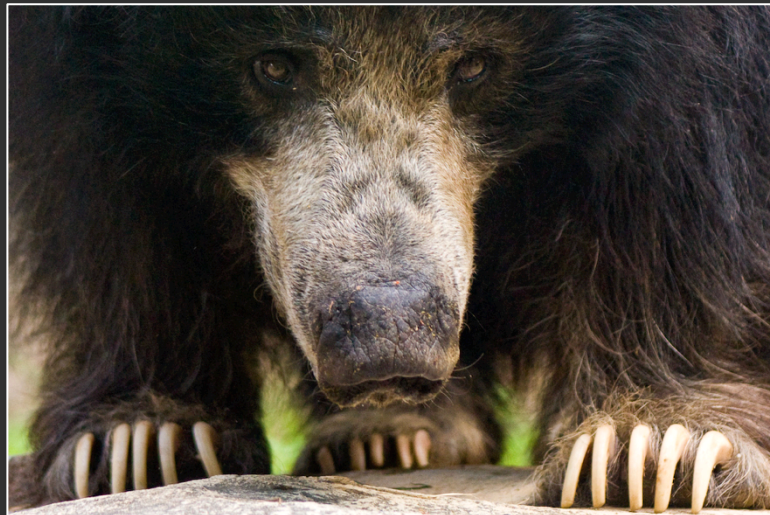
The Existing Site



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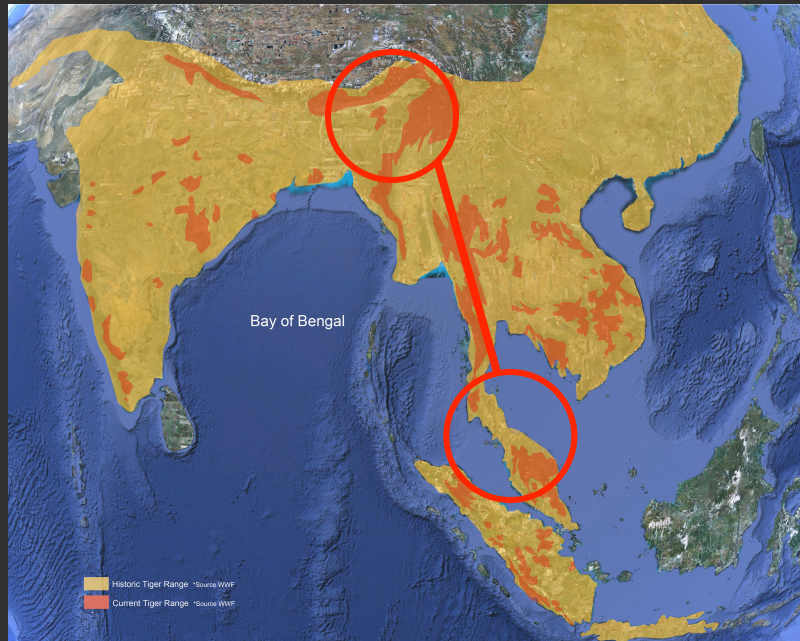
The Proposed Animals



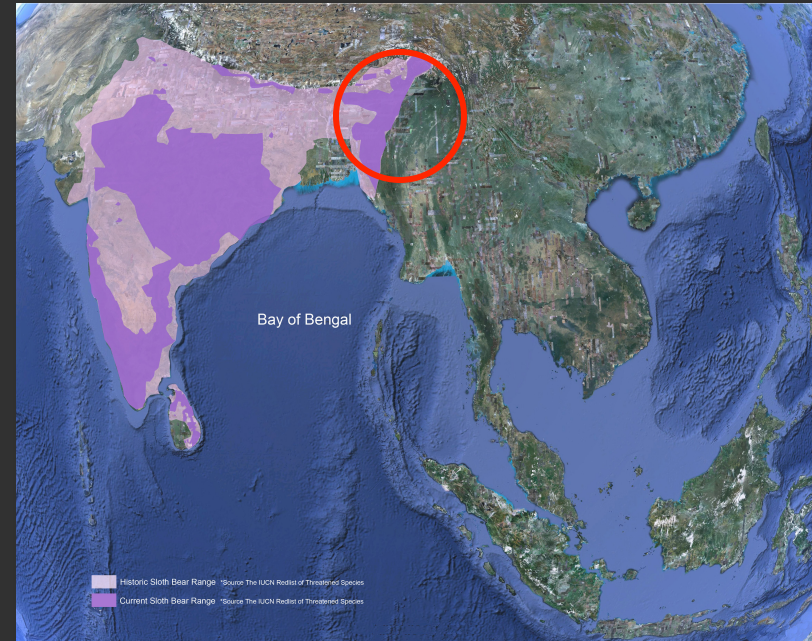
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The Proposed Place



Tiger Range



Sloth Bear Range

Dense Indo-Malayan Tropical Forest Landscapes

Mesua ferrea, Stereospermum personata, Terminalia myriocarpa, Dipterocarpus alatus, Ficus elastica, Ficus microcarpa, Nephelium, Garcinia, Sterculia, Saurauia, Wightia, Elaeocarpus, Xylopia, Magnolia, Michelia, Musa, Gigantochloa apus, Jasminum, Cyathea, Pandanus, Caryota urens, Calamus, Begonia, orchids, ferns ...

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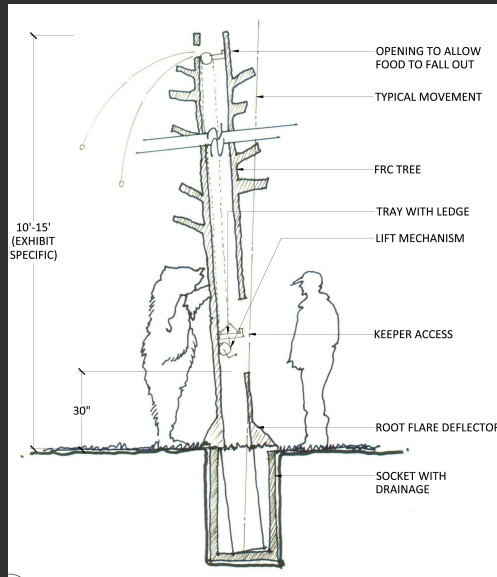
Project Components: Enrichment

- **Celebrate CARING for the animals – front & back of house!**
Move beyond the “Five Freedoms” - layer in flexible & differential challenge levels of enrichment:
 - ✓ *Feeding systems that target natural behavior.*
 - ✓ *Movement modalities to maintain fitness & offer choice.*
 - ✓ *Rest area choices.*
 - ✓ *Sensory stimulation.*

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Project Components: Enrichment



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Enrichment on Both Sides of the Barrier

TIGERS

SLOTH BEARS

GUESTS

Food

Jostle Tree/Logs
Lure Line
Stream with Fish
Food Caches/Timed Release

Jostle Tree/Logs
Sucking Tube
Grub Discovery
Food Caches/Times Release
Dig Pits
Reach Crevasses
Bone Smashing
Water Floats

Balance Logs
Interaction with Sucking Tube
Observation
Observation
Observation
Observation
Observation
Observation

Spatial

Climbing Trees/Scratching Trees
Rest Area Choices
Hiding

Climbing Trees/Padways
Rest Area Choices
Hiding

Balance Logs
Rest Area Choices
Hide & Peek

Affinity

Training Wall
Emotional Stimulation

Training Wall
Emotional Stimulation

Training Wall Interaction
Emotional Stimulation
High-Gamma Wave Brain State

Sensory

Choice of Comfort
Olfactory Stimulation

A Rich & Varied Acoustic Environment with Reward & Feedback

Choice of Comfort
Olfactory Stimulation

Choice of Comfort
Olfactory Stimulation

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Project Components: Sustainability

- Incorporate **SUSTAINABILITY ELEMENTS** that move the Zoo towards a “net zero” position!

- **Reduce Energy Demands**

- ✓ Replace the inefficient Feline House heating & ventilation system.
- ✓ Reduce energy demands by harnessing natural ecological services.
- ✓ Minimize heating needs.
- ✓ Utilize energy-efficient fixtures.

- **Reduce Potable Water Usage & Stormwater Discharge.**

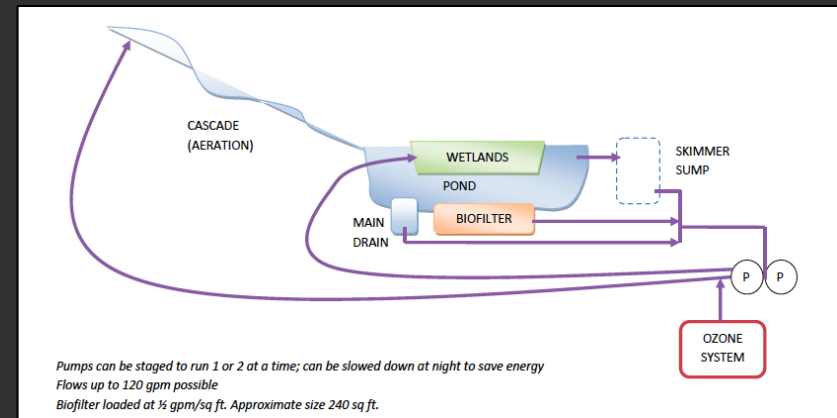
- ✓ Capture & use stormwater.
- ✓ What can't be used - infiltrate, don't drain-away.

- **Create Operational Efficiencies.**

- ✓ Minimize maintenance time requirements.
- ✓ Reduce vehicular use.
- ✓ Maximize communications.

- **Enhance Existing Natural Systems.**

- ✓ Incorporate “Dark Sky” principles.
- ✓ Create bird-safe buildings.



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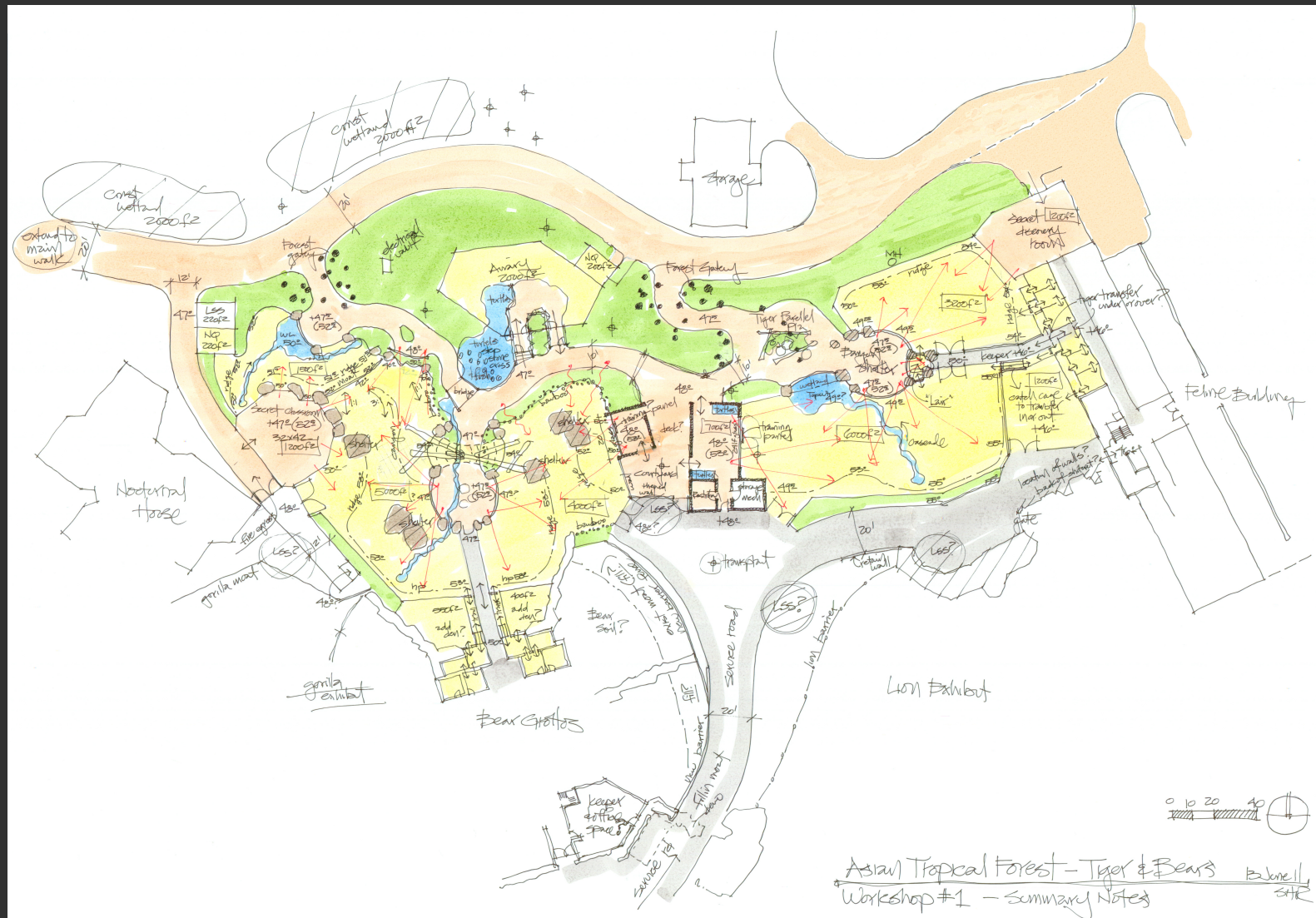
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Project Components: Visitor Experience

- Integrate INNOVATIVE INTERPRETATION that motivates thinking & conversation; moves guests to a new level of engagement with the world around them; & results in significant, positive behavioral change.
 - Thoroughly immerse guests in an “authentic” setting that has present-day cultural resonance.
 - ✓ *Being in a research reserve*
 - ✓ *Obtaining clean water*
 - ✓ *Sheltering from the elements*
 - Incorporate a back-story that focuses on what it takes to “share the forest” with “predators” ... & bring that message home to the Pacific Northwest.
 - Create an acoustic environment that drives down guest decibel levels & heightens attentiveness & emotional connection with the animals.
 - ✓ *“Mike the animals”*
 - Share the Zoo’s animal care stories.
 - ✓ *Training walls & Keeper presentations*
 - ✓ *“Back of House – In Front of the House”*
 - Engage our guests ... On-site, off-site & online!

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The Last Time You Saw the Plan



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25% Design Development Plan



Woodland Park Zoo
Sharing the Forest: Asian Tiger & Bear Exhibit

Presentation to the Board
Studio Hanson/Roberts
5 November 2011

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Public Access & Circulation



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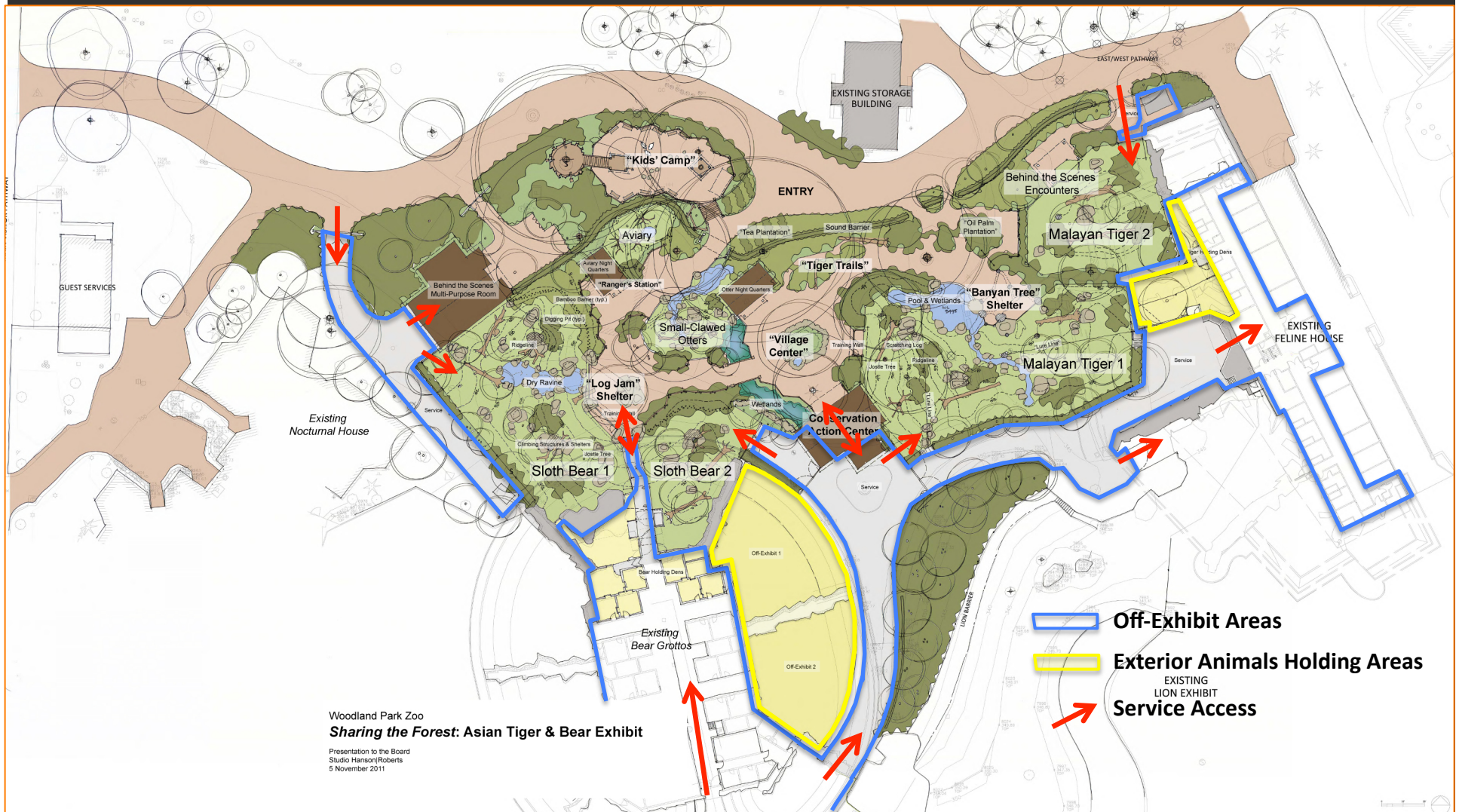
Animal Habitats & Public Viewing



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Off-Exhibit Areas & Service Access

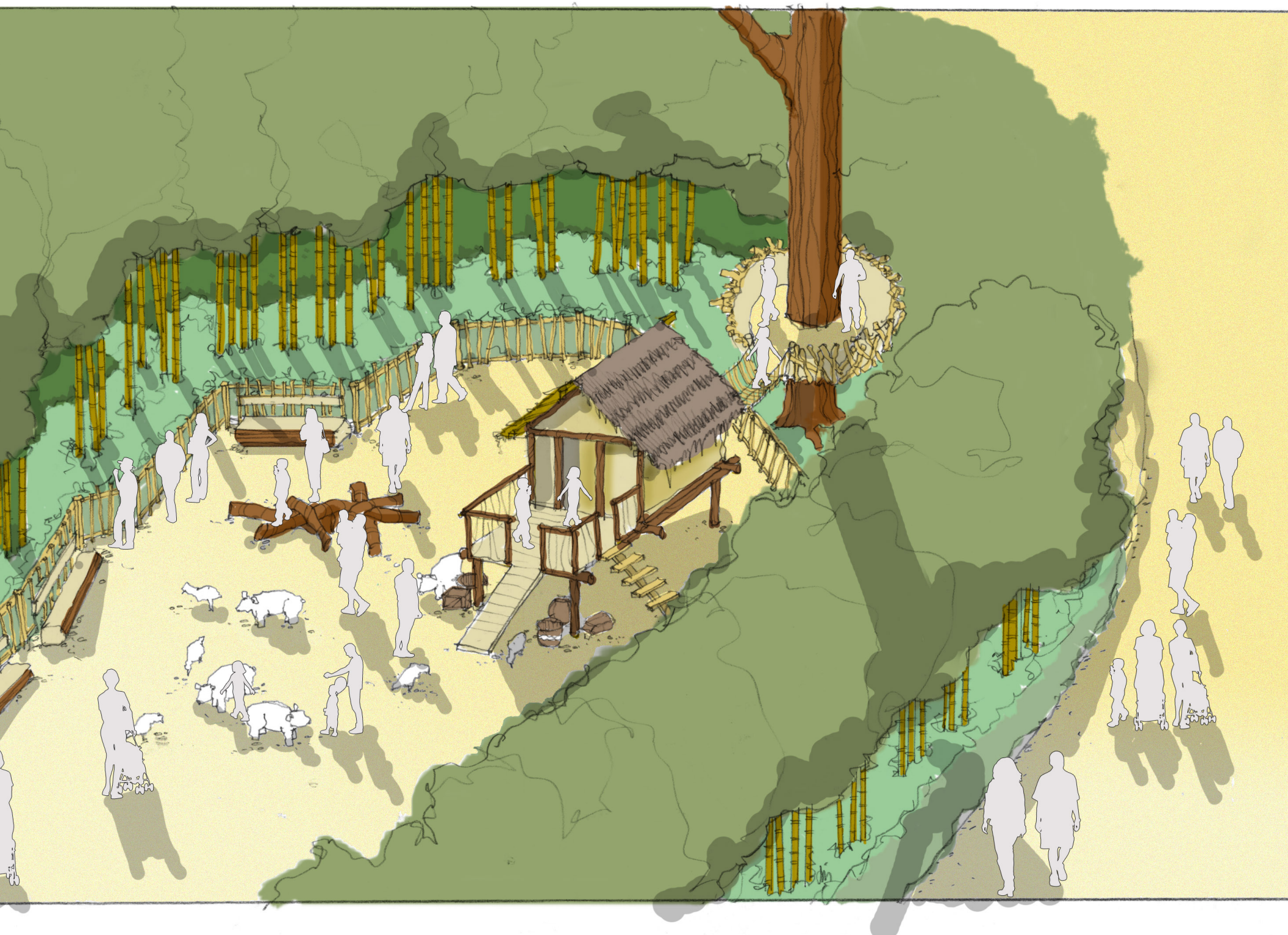


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Visitor Experience: Kids' Camp



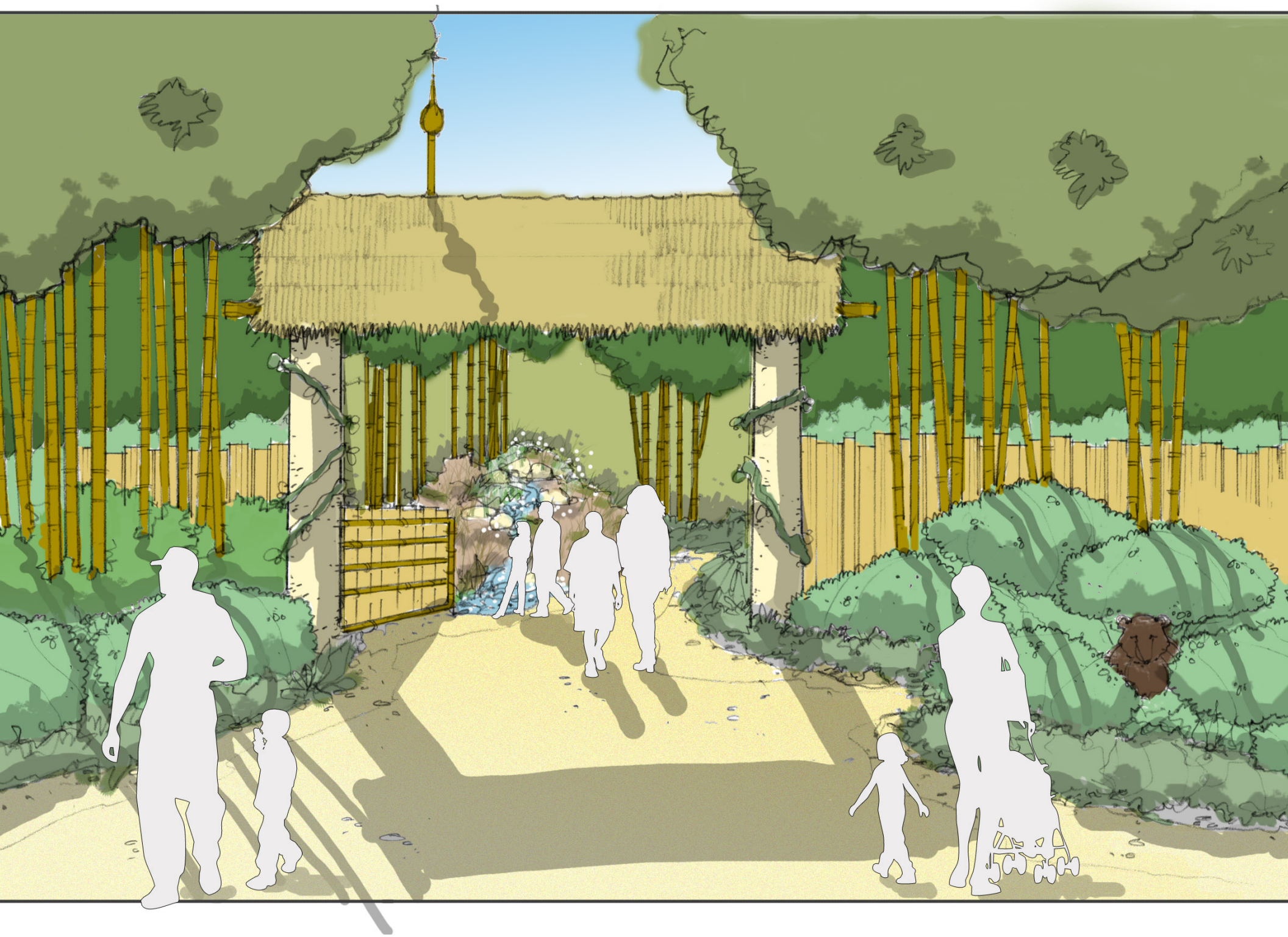


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Visitor Experience: Research Reserve Gateway





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Visitor Experience: Asian Small-Clawed Otters @ the Forest Stream



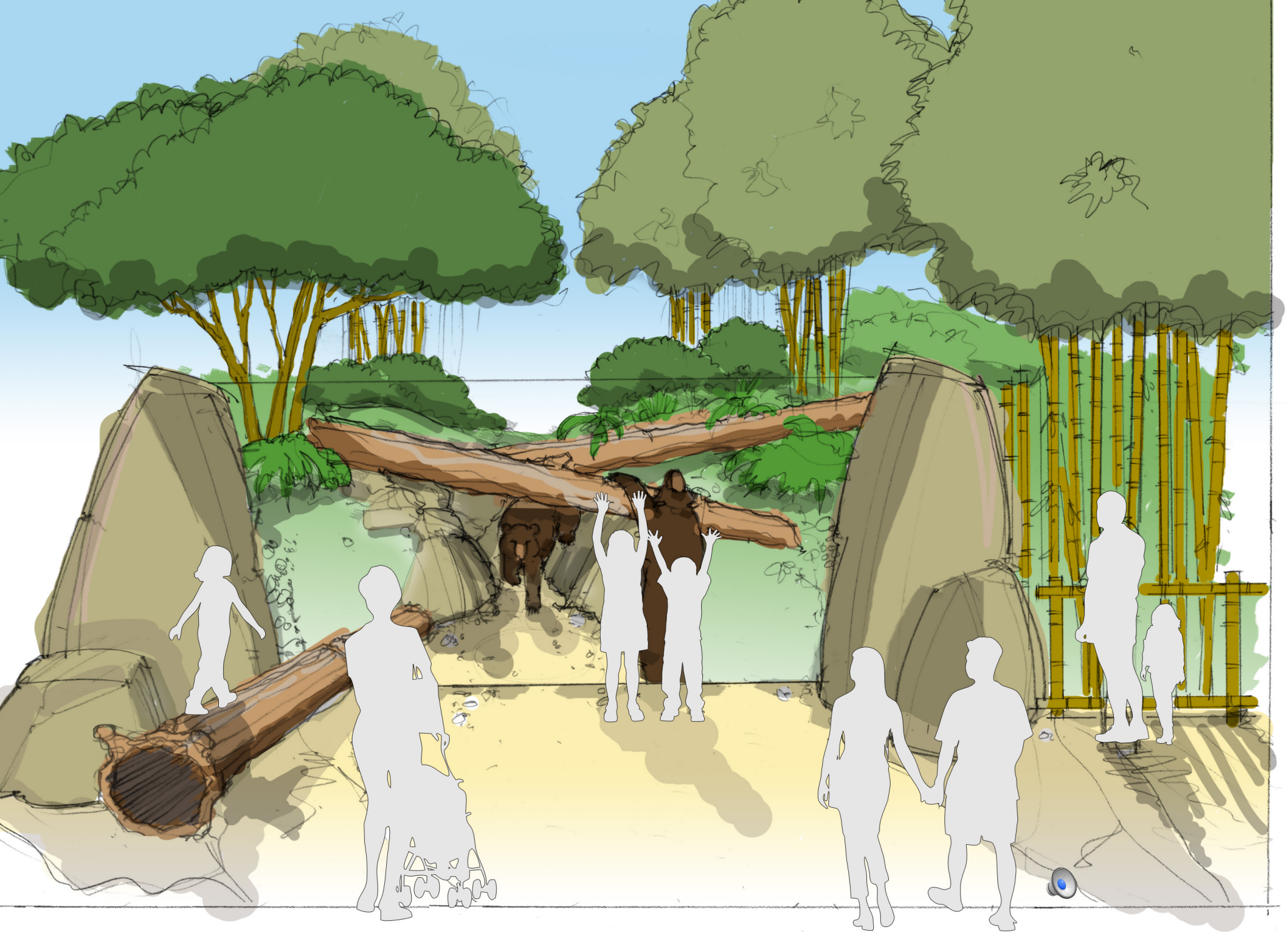


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Visitor Experience: Sloth Bears @ the Rocky Ravine

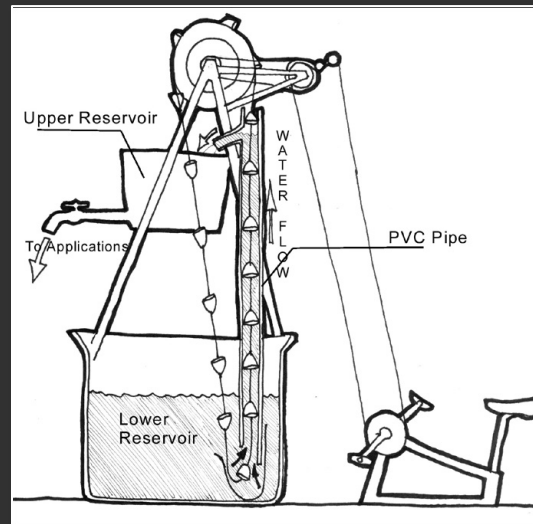


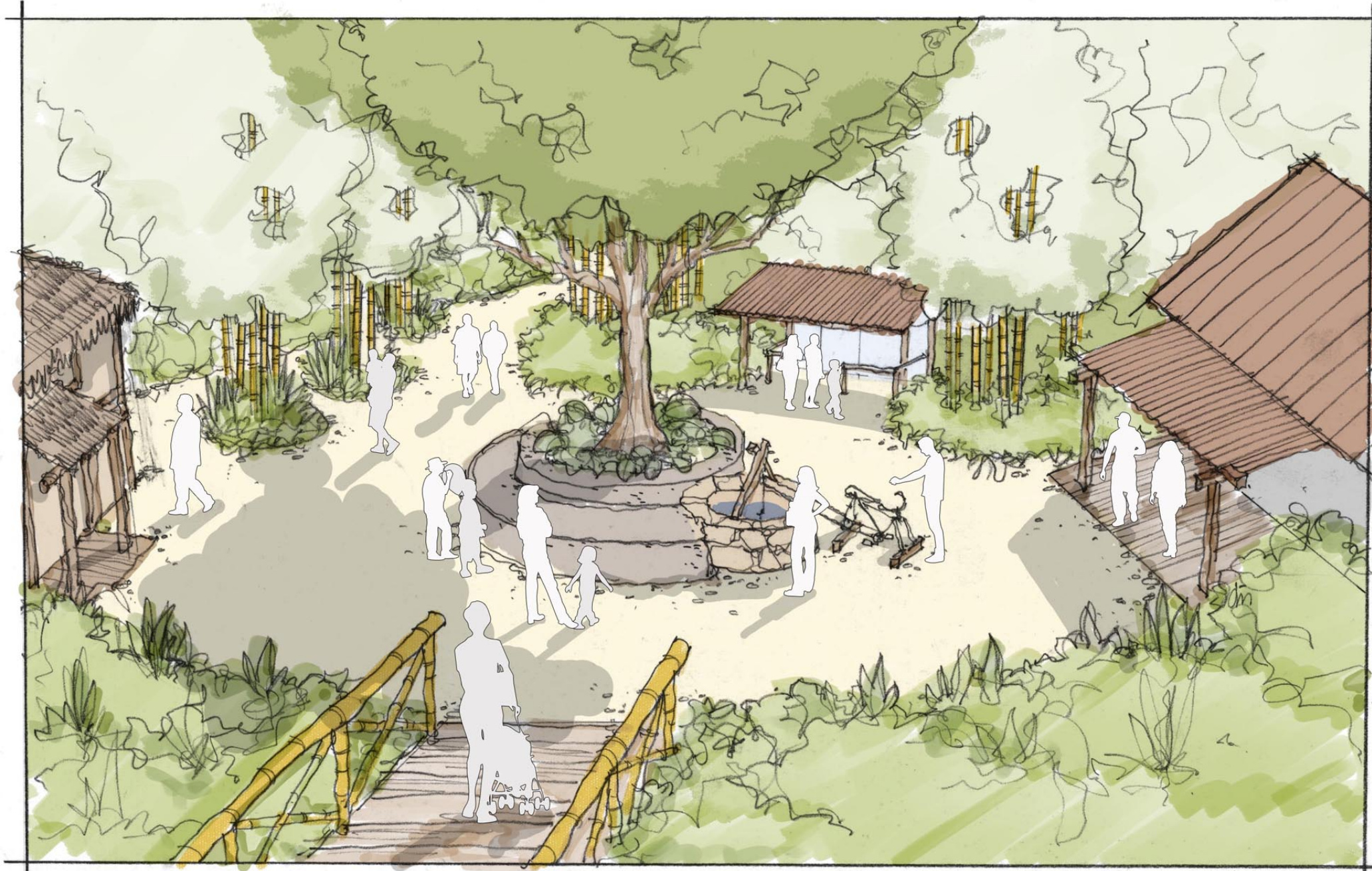


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Visitor Experience: “Village Center”





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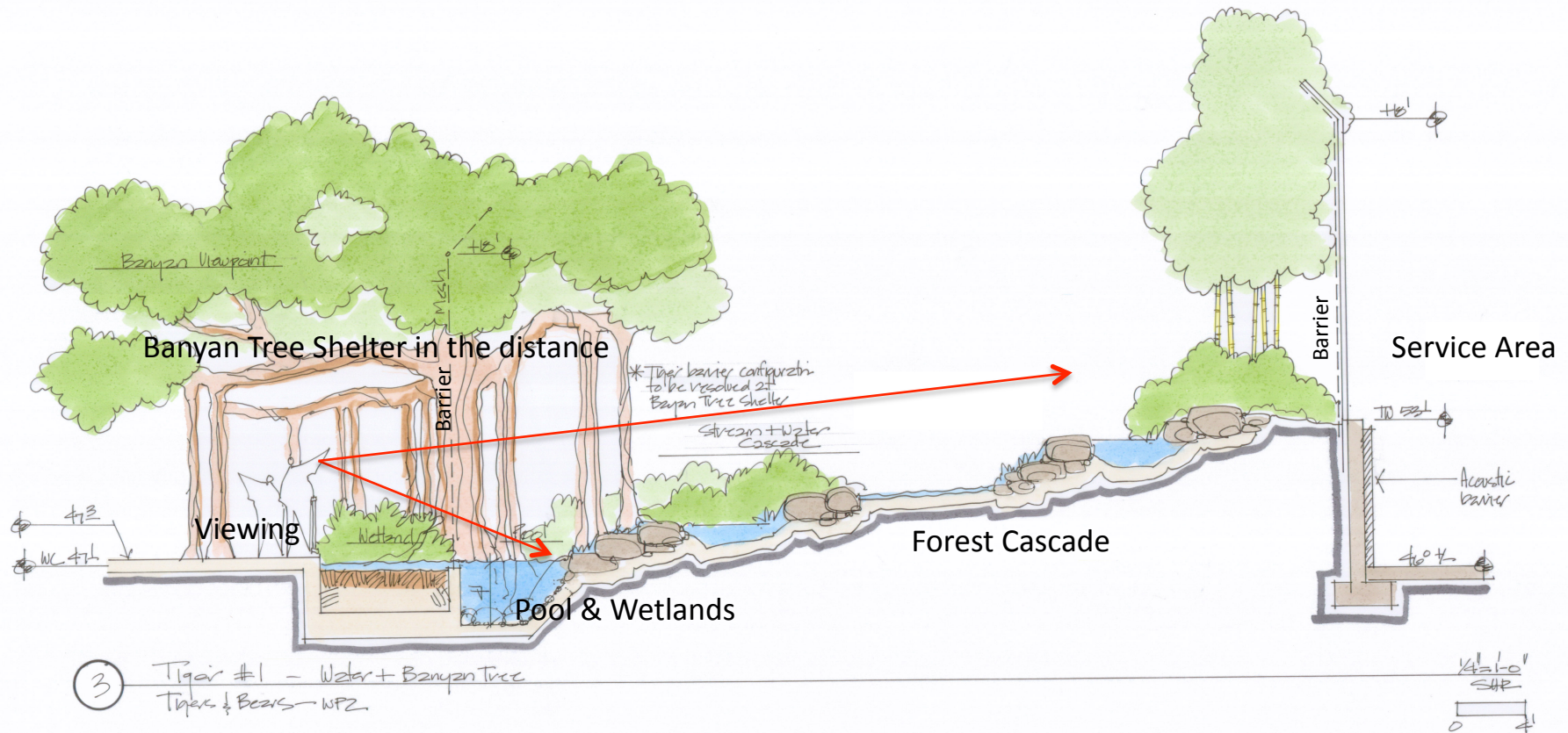
Visitor Experience: Tigers @ the Forest Cascade & Pools



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Visitor Experience: Tigers @ the Forest Cascade & Pools





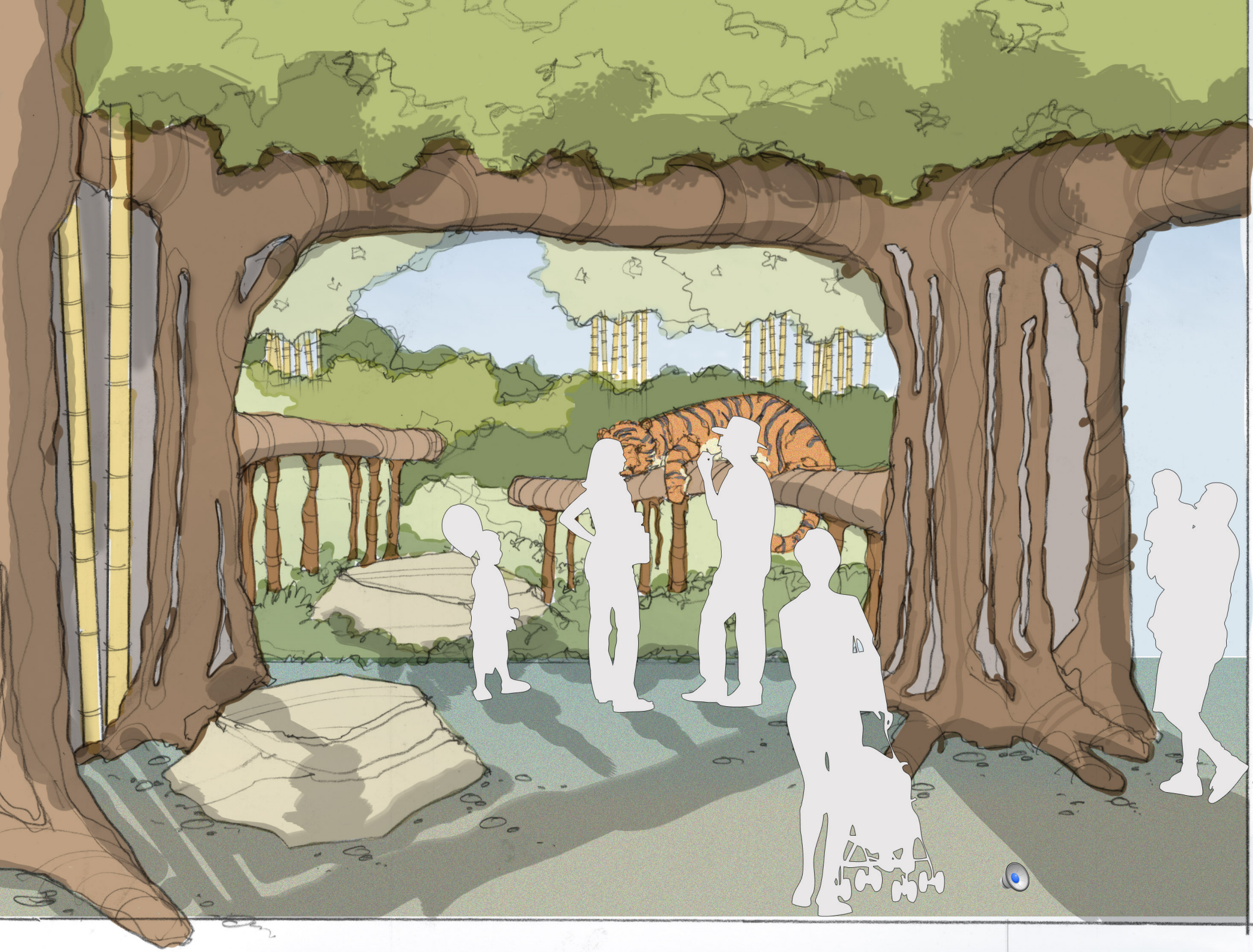
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Visitor Experience: Tigers @ the Banyan Tree Shelter



Banyan — Tree, Kingston Park



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Visitor Experience: Leaving the Reserve





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Phase One

