Sharing the Forest
Asian Tigers & Bears Exhibit

25 % Design Development Briefing

Seattle Design Commission

17 November 2011

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Woodland Park Zoo

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Partner-in-Charge,
Studio Hanson/Roberts

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The Master Plan

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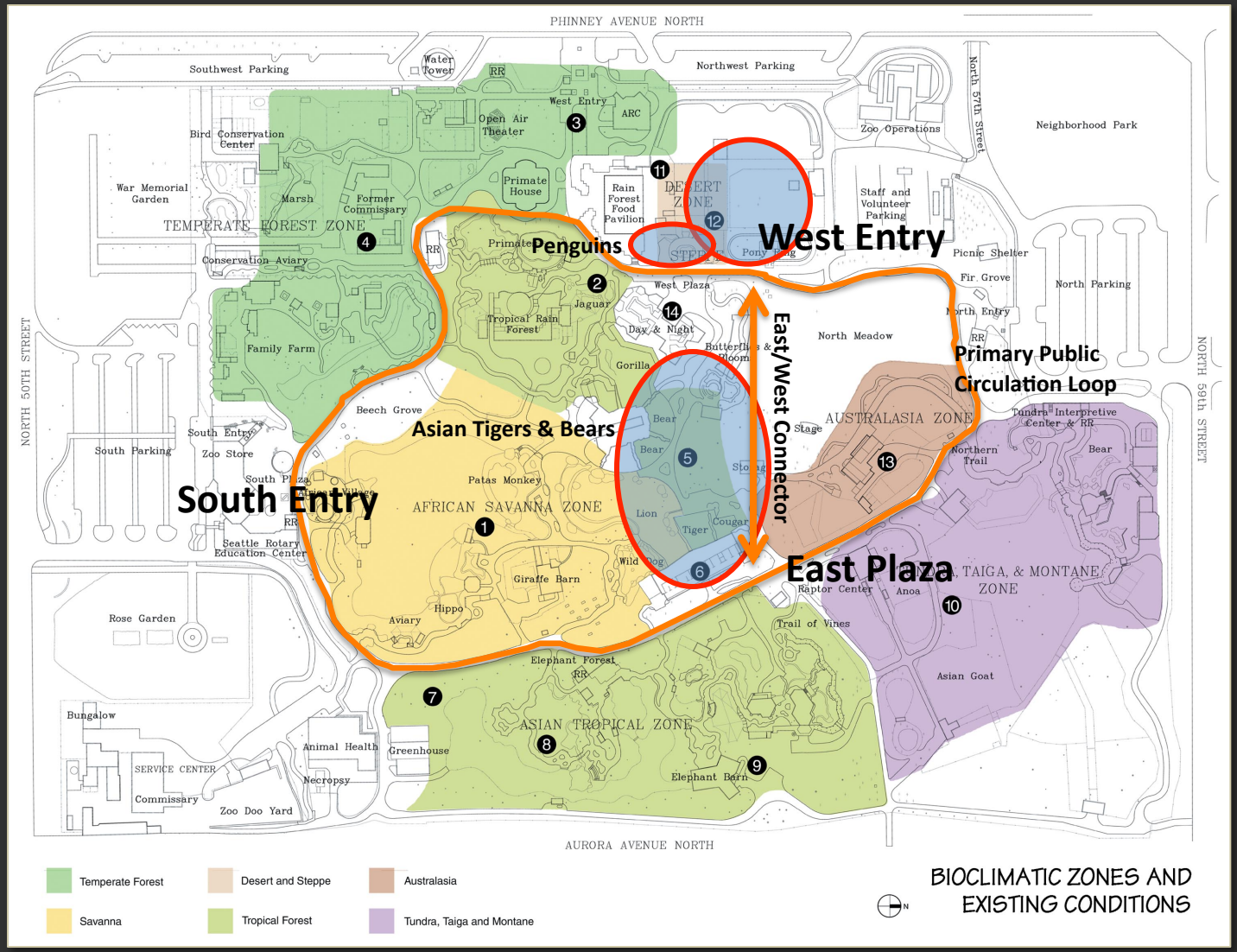
The Master Plan



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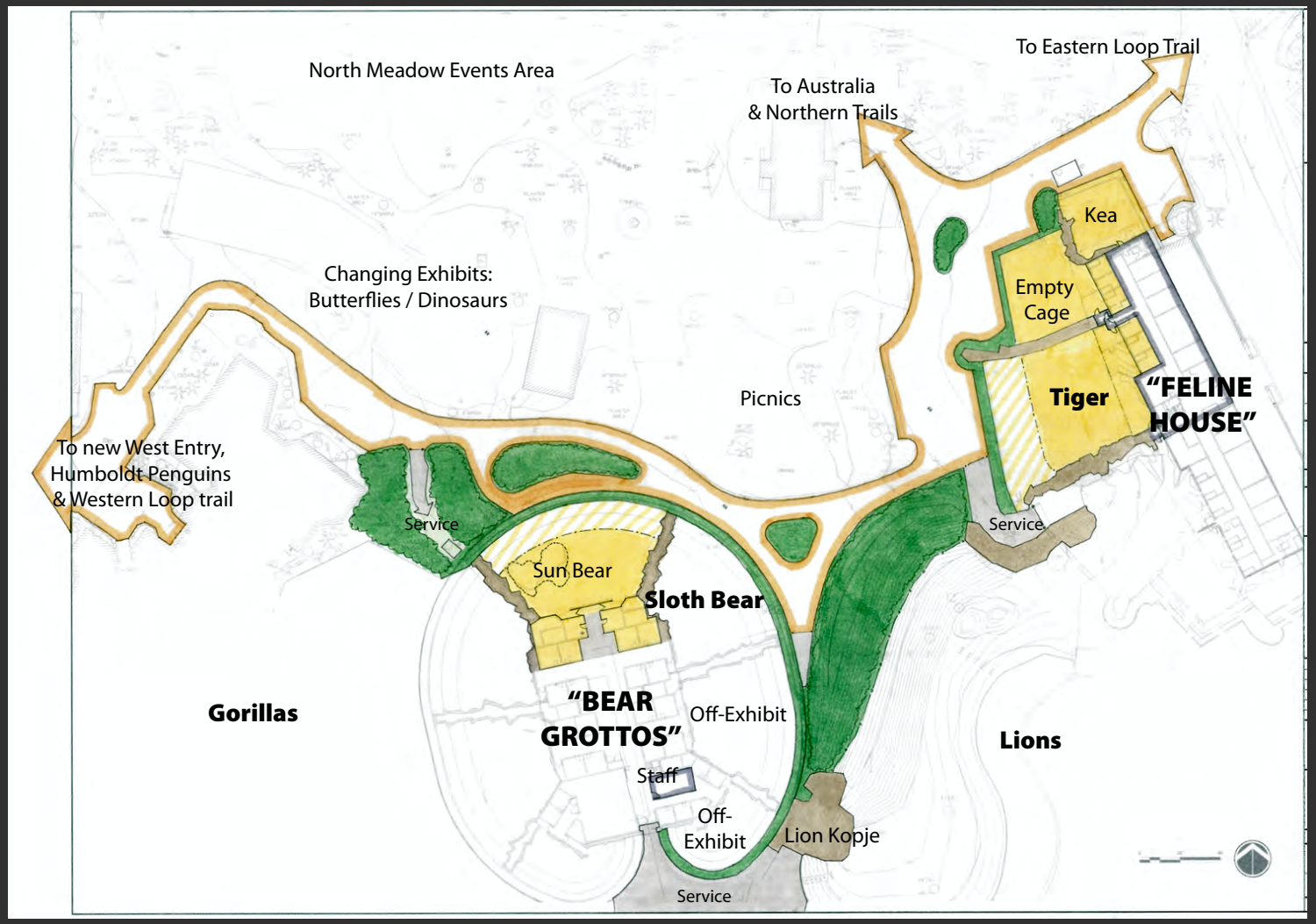
The Existing Site



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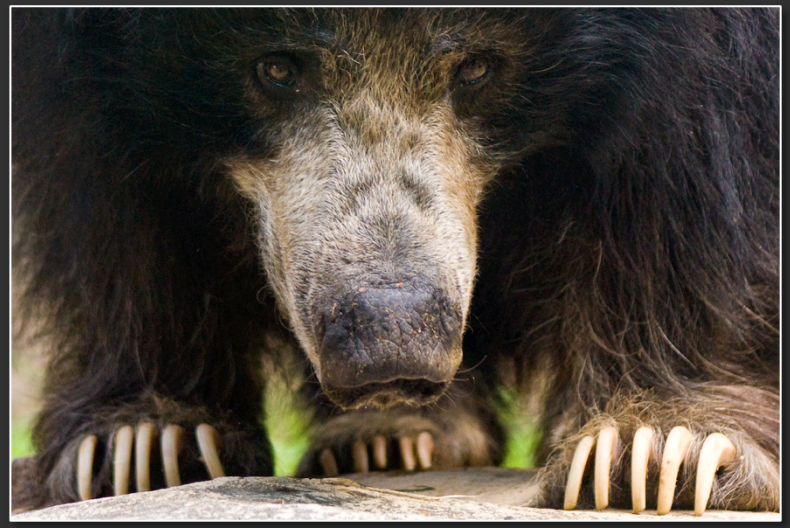
The Proposed Animals



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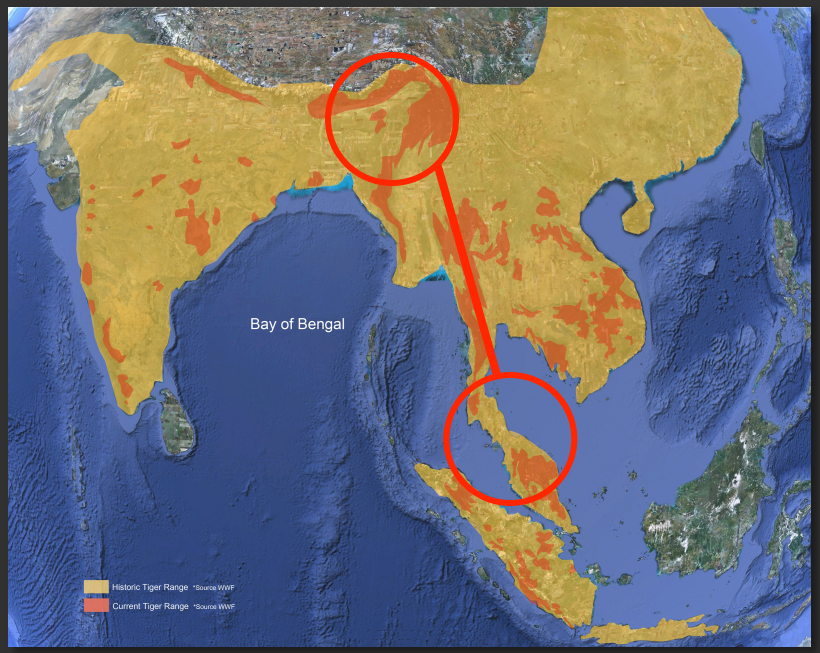
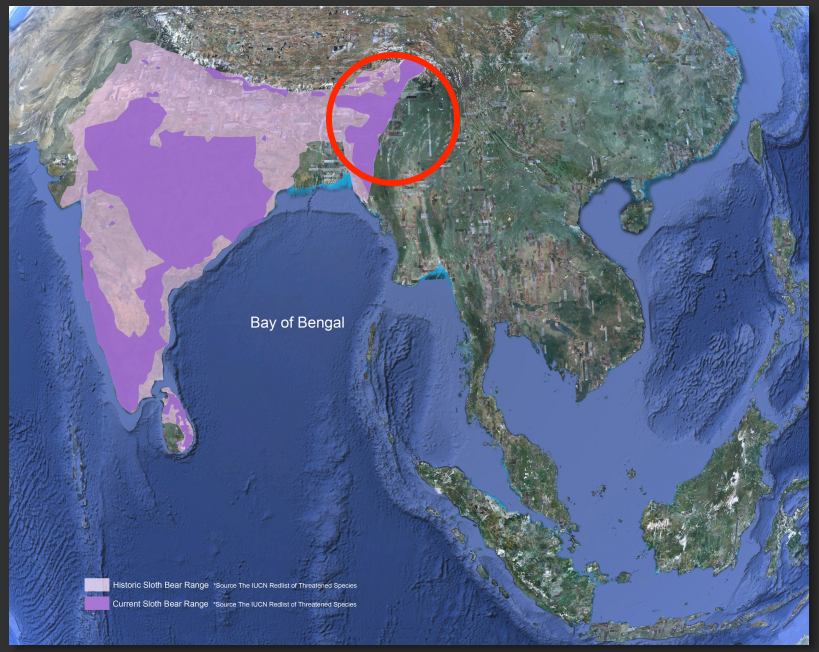
The Proposed Place



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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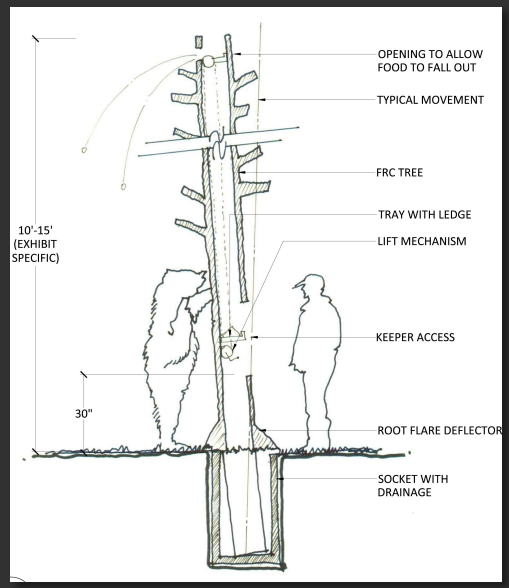
Project Components: Enrichment



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Enrichment on Both Sides of the Barrier

	TIGERS	SLOTH BEARS	GUESTS
Food	Jostle Tree/Logs	Jostle Tree/Logs	Balance Logs
	Lure Line	Sucking Tube	Interaction with Sucking Tube
	Stream with Fish	Grub Discovery	Observation
	Food Caches/Timed Release	Food Caches/Times Release	Observation
		Dig Pits	Observation
		Reach Crevasses	Observation
		Bone Smashing	Observation
		Water Floats	Observation
Spatial	Climbing Trees/Scratching Trees	Climbing Trees/Padways	Balance Logs
	Rest Area Choices	Rest Area Choices	Rest Area Choices
	Hiding	Hiding	Hide & Peek
Affinity	Training Wall	Training Wall	Training Wall Interaction
	Emotional Stimulation	Emotional Stimulation	Emotional Stimulation
			High-Gamma Wave Brain State
Sensory	A Rich & Varied Acoustic Environment with Reward & Feedback		
	Choice of Comfort	Choice of Comfort	Choice of Comfort
	Olfactory Stimulation	Olfactory Stimulation	Olfactory Stimulation

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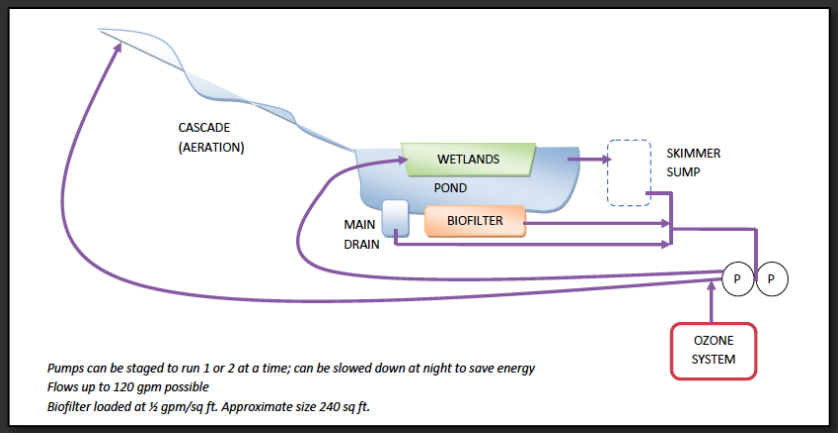
Project Components: Sustainability

- **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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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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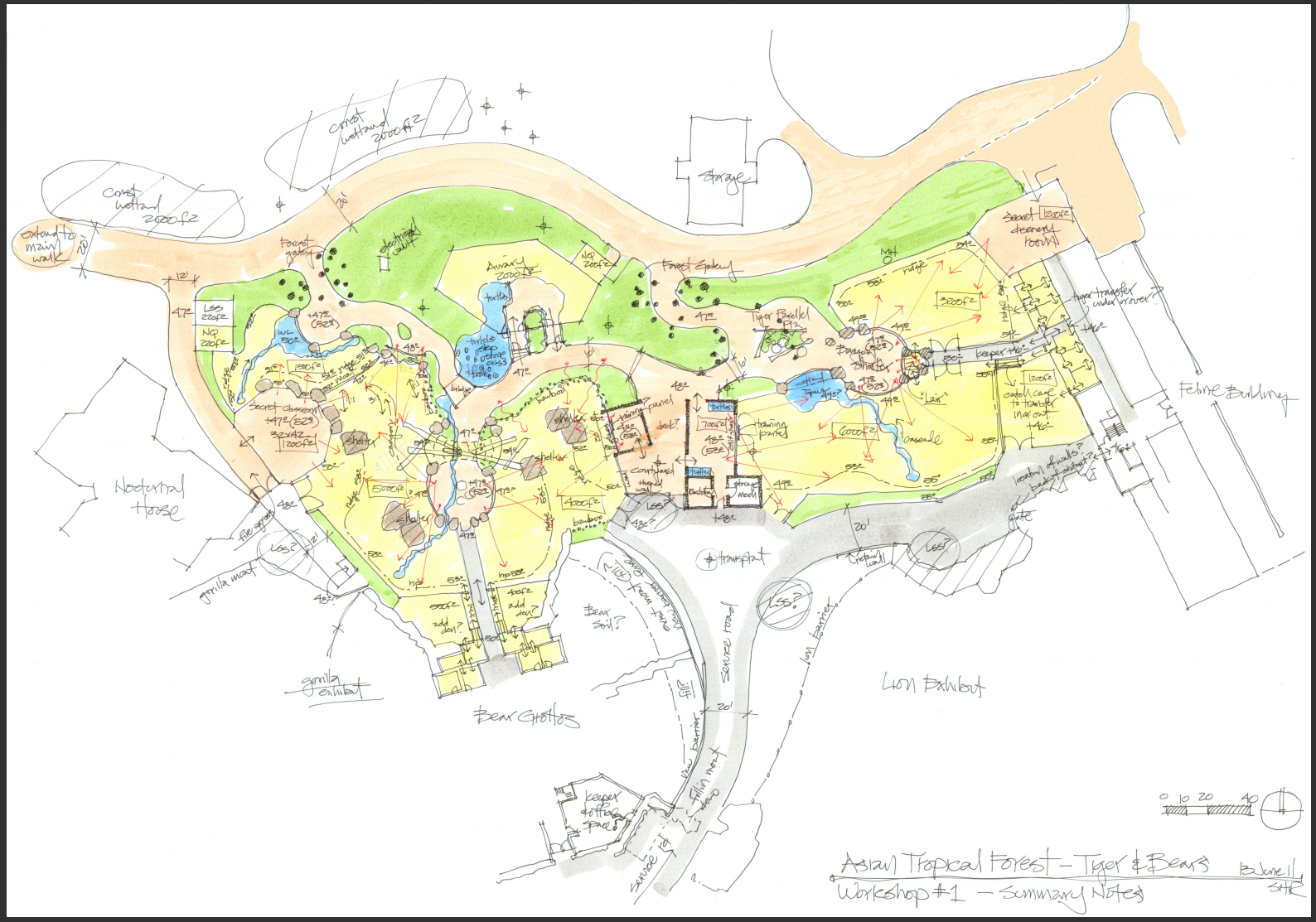
The Last Time You Saw the Plan



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25% Design Development Plan

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Public Access & Circulation

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Animal Habitats & Public Viewing

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***Sharing the Forest*: Asian Tiger & Bear Exhibit**

Presentation to the Board
Studio Hanson|Roberts
5 November 2011

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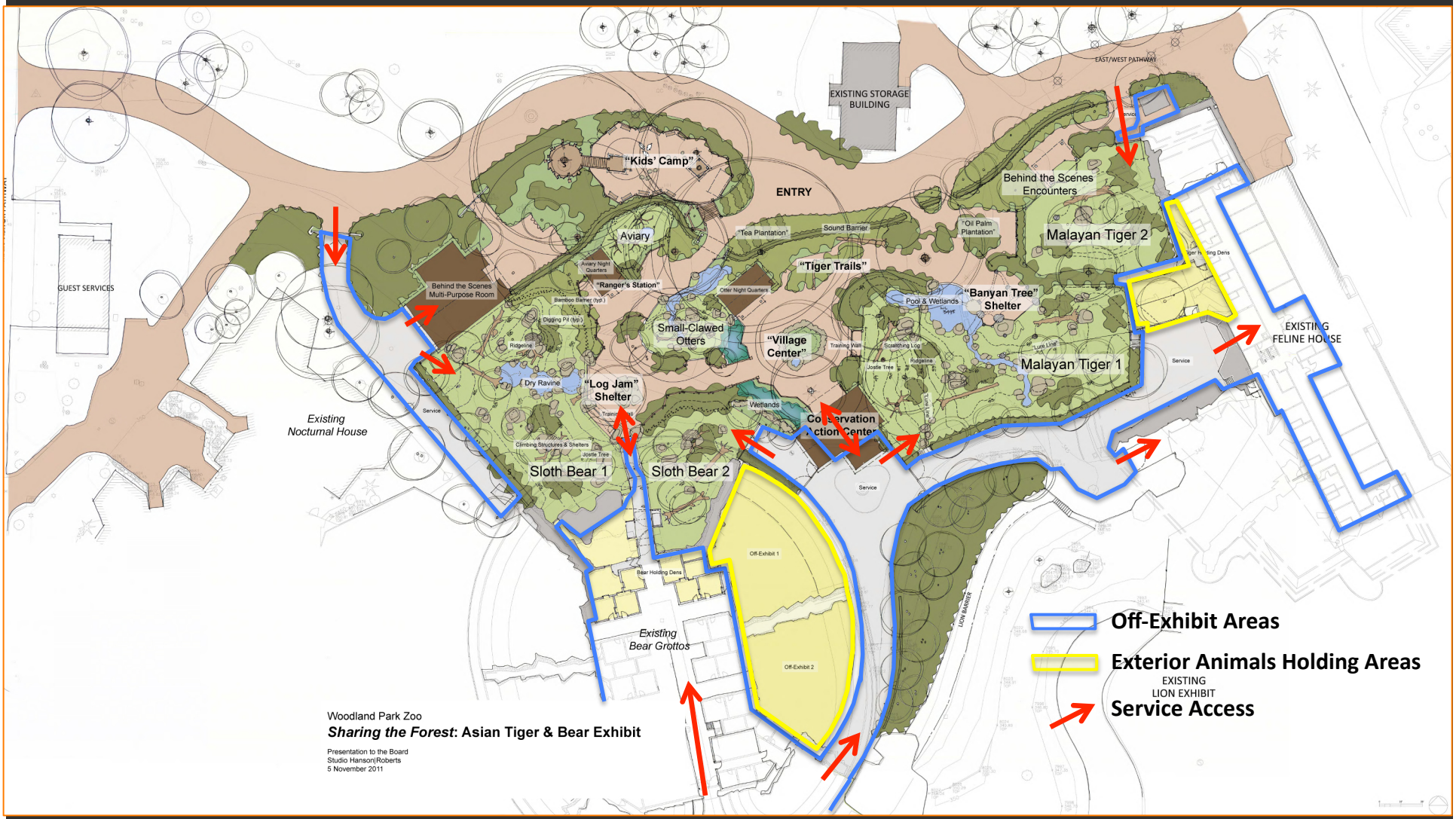
Off-Exhibit Areas & Service Access



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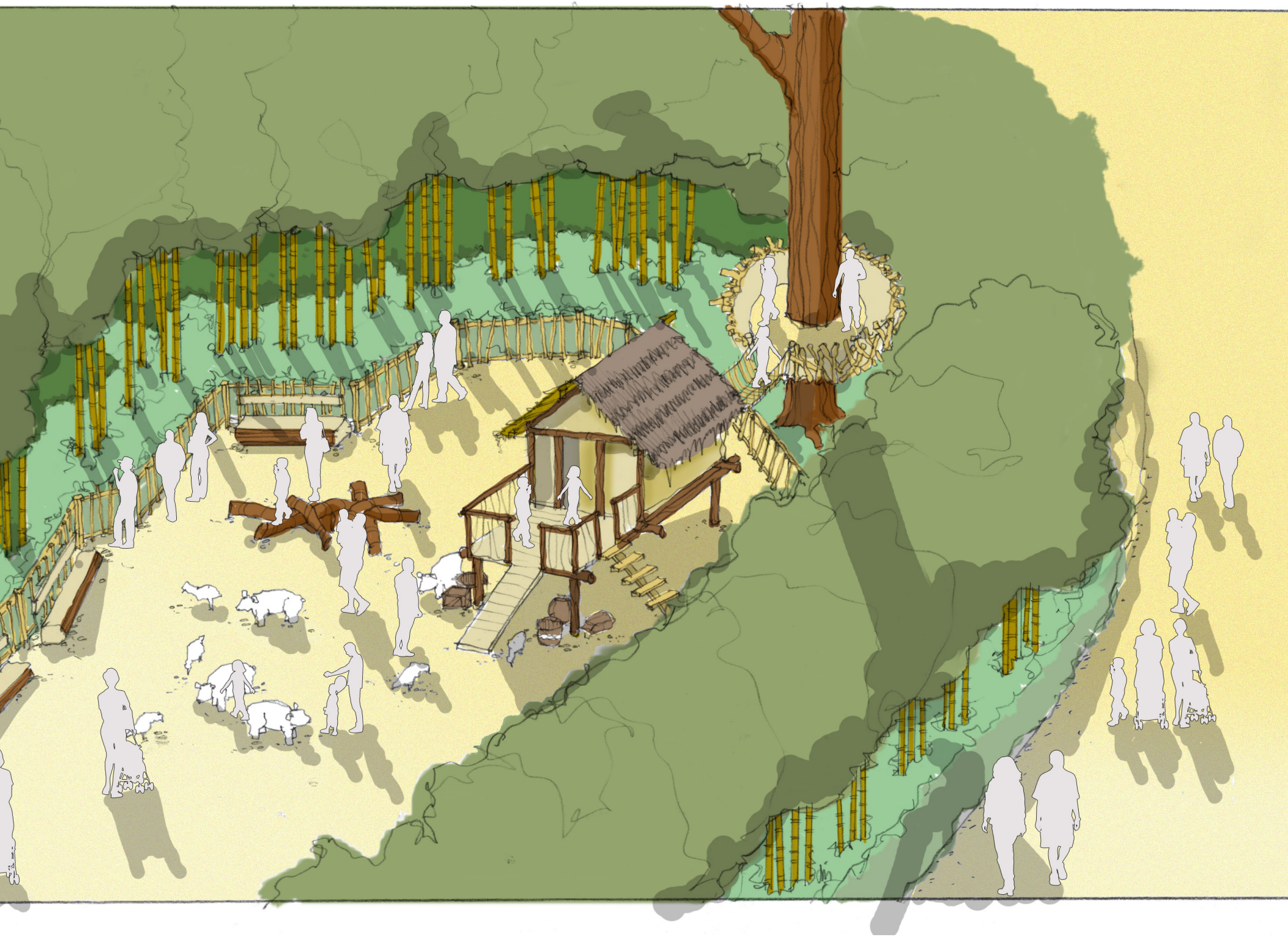
Visitor Experience: Kids' Camp



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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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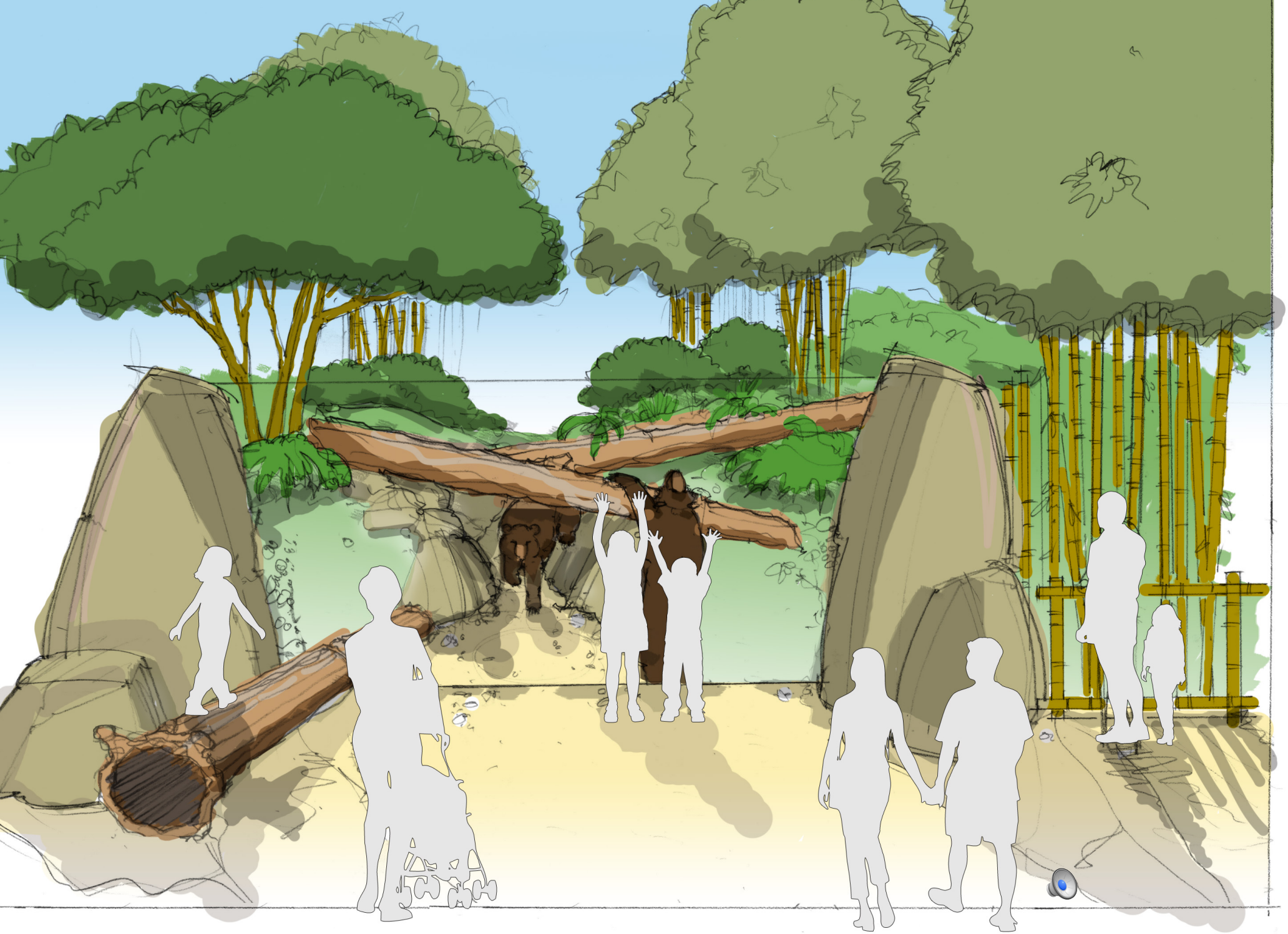
Visitor Experience:
Sloth Bears @ the Rocky Ravine



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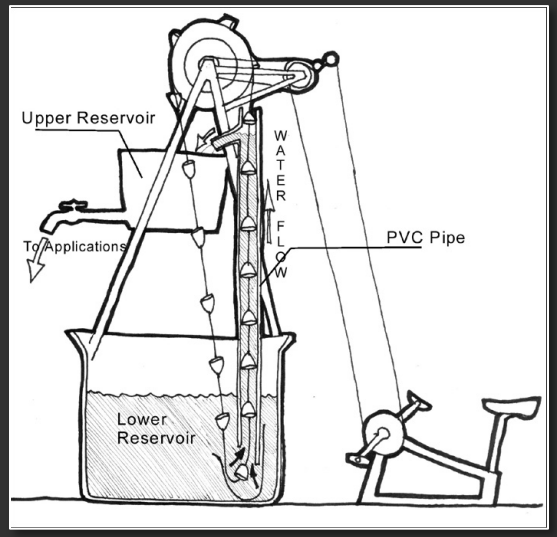
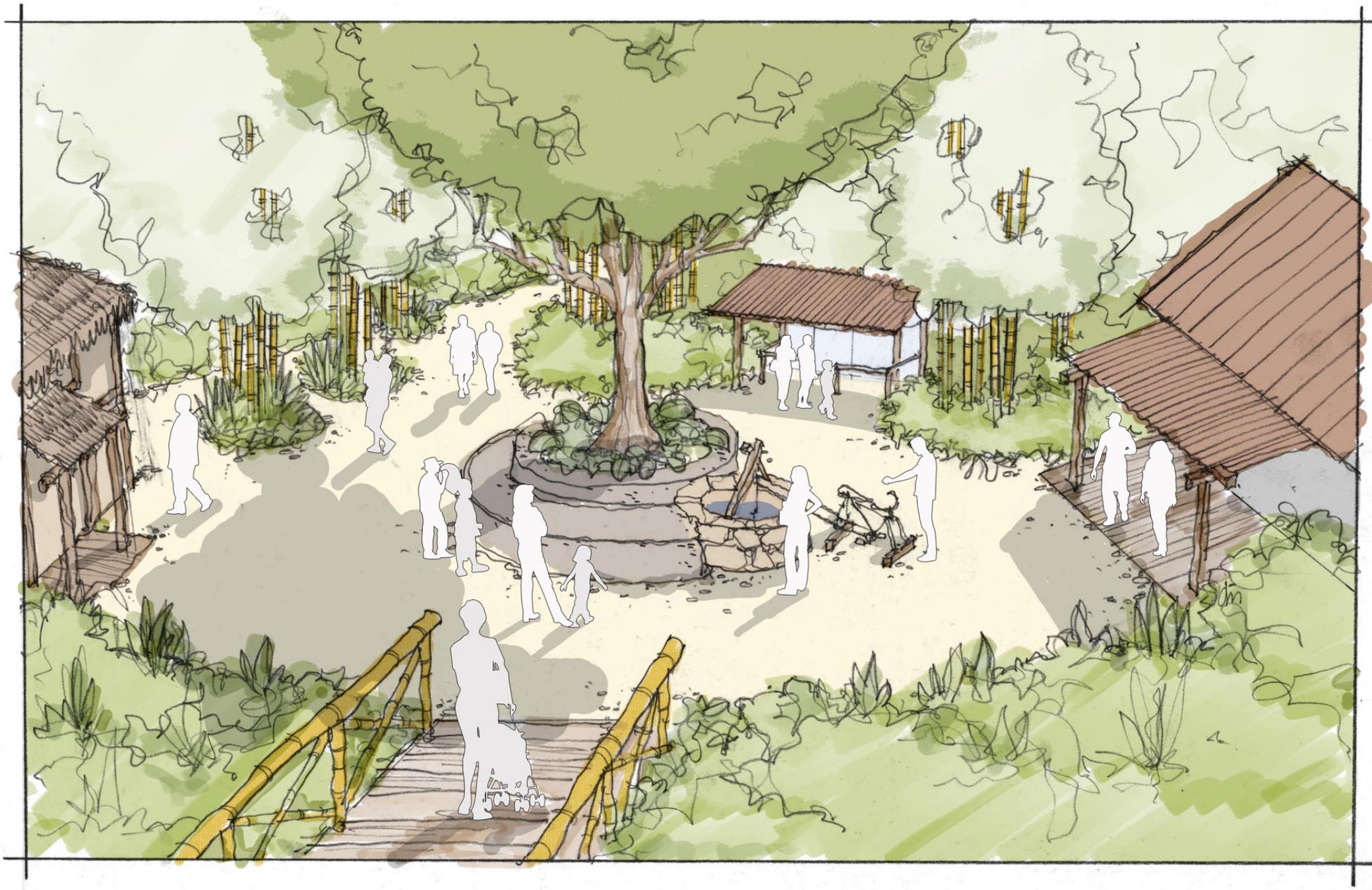
Visitor Experience: "Village Center"





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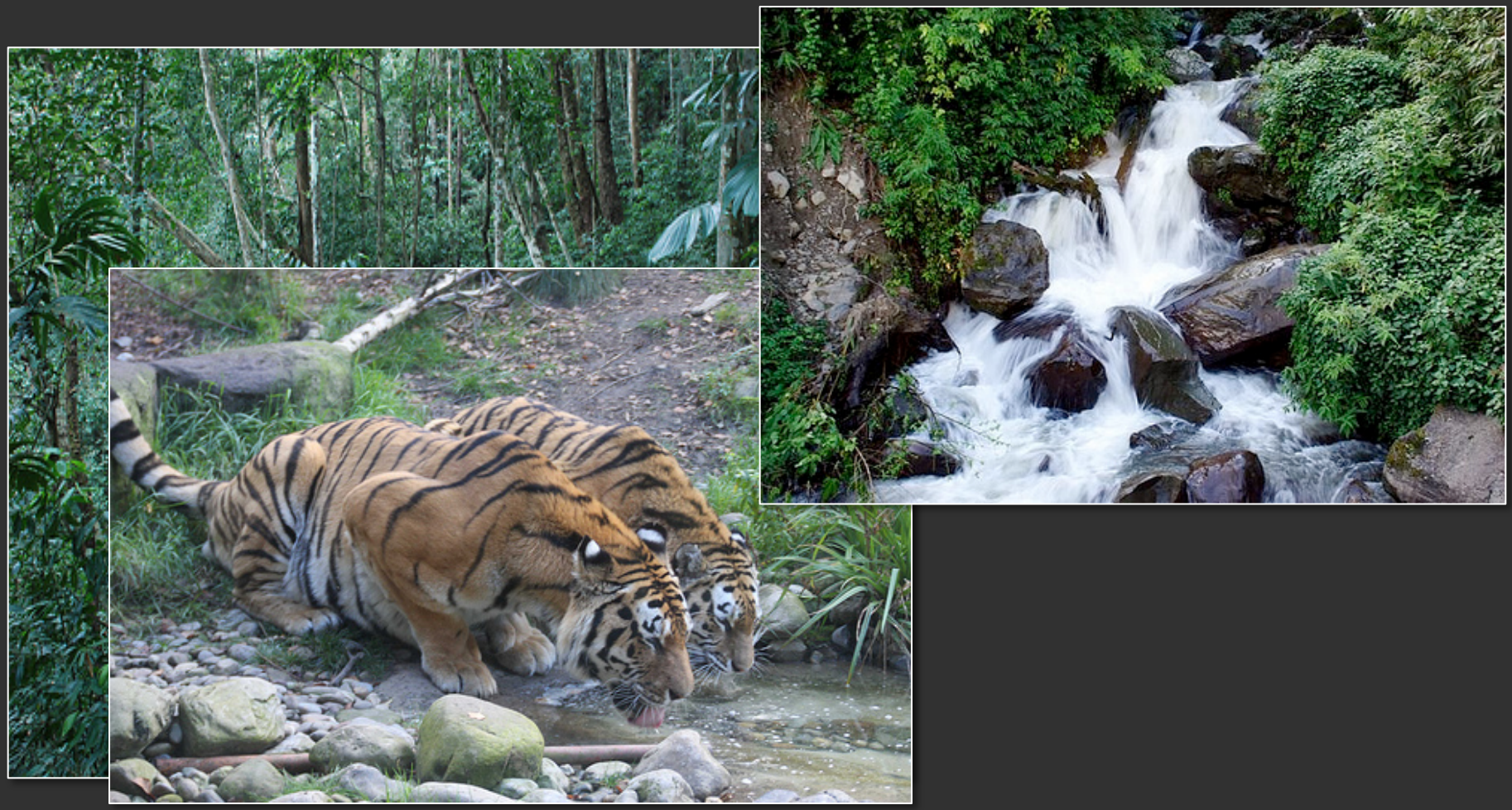
Visitor Experience:
Tigers @ the Forest Cascade & Pools



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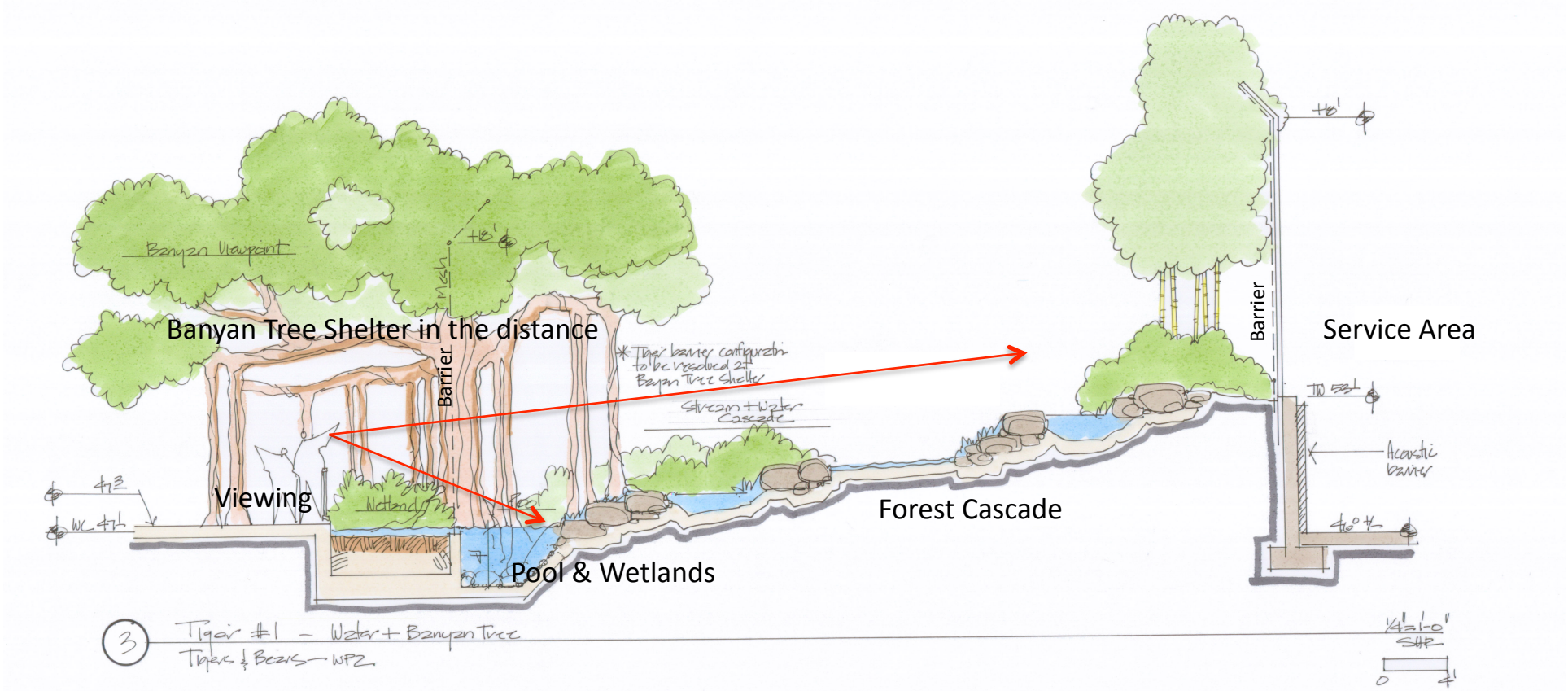
Tigers @ the Forest Cascade & Pools



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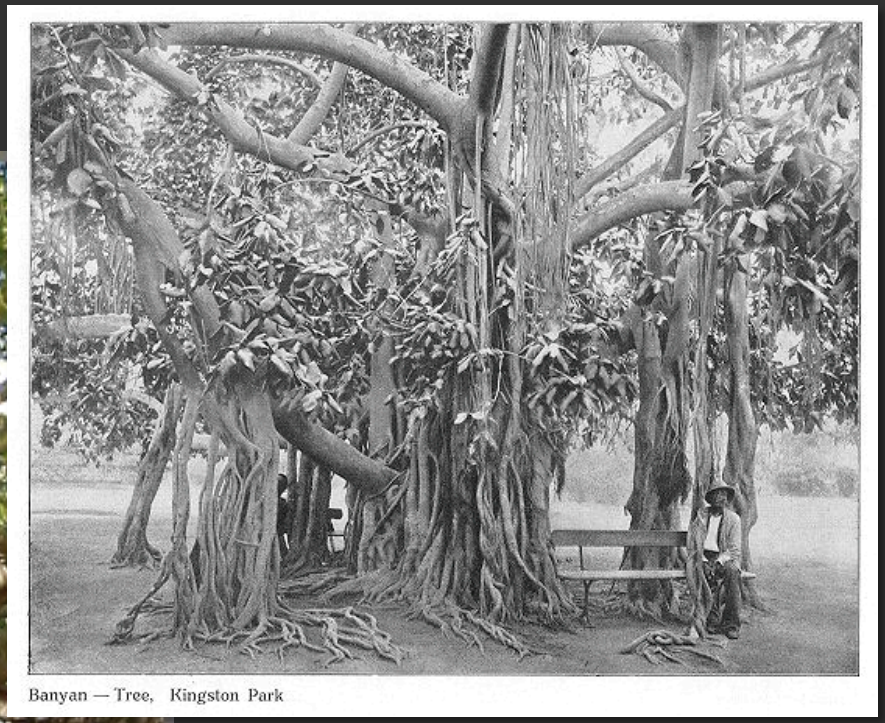
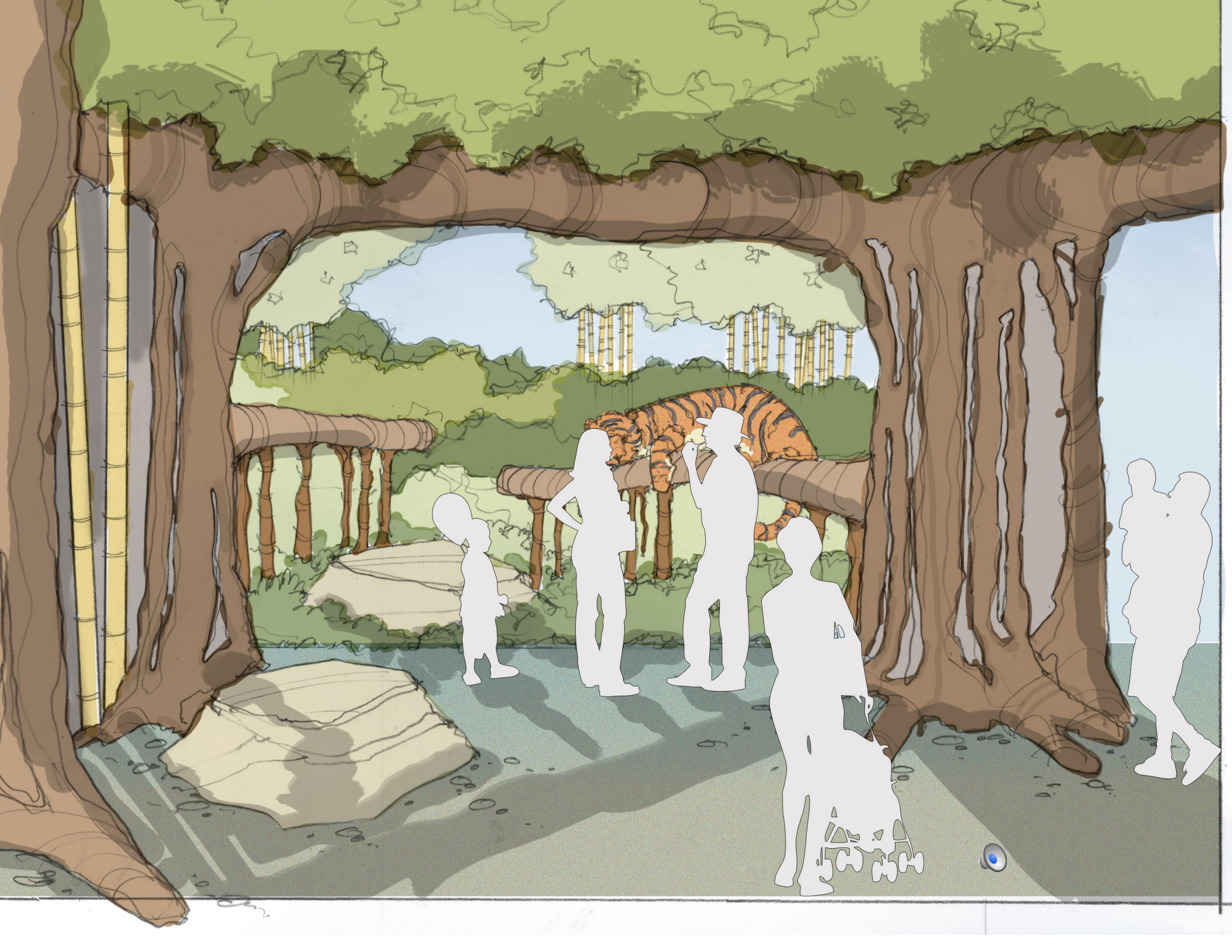
Visitor Experience:
Tigers @ the Banyan Tree Shelter



Banyan — Tree, Kingston Park



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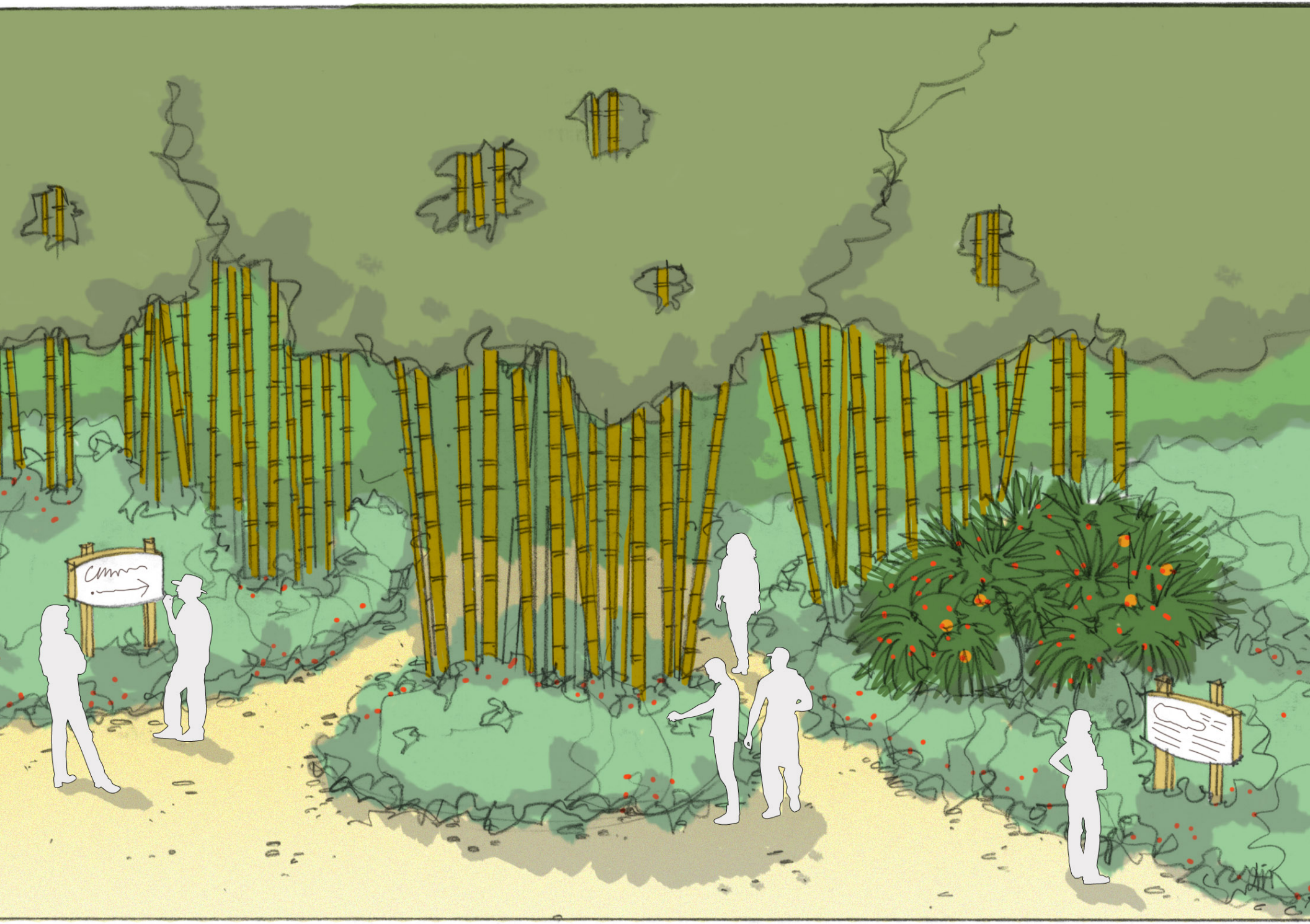
Visitor Experience: Leaving the Reserve



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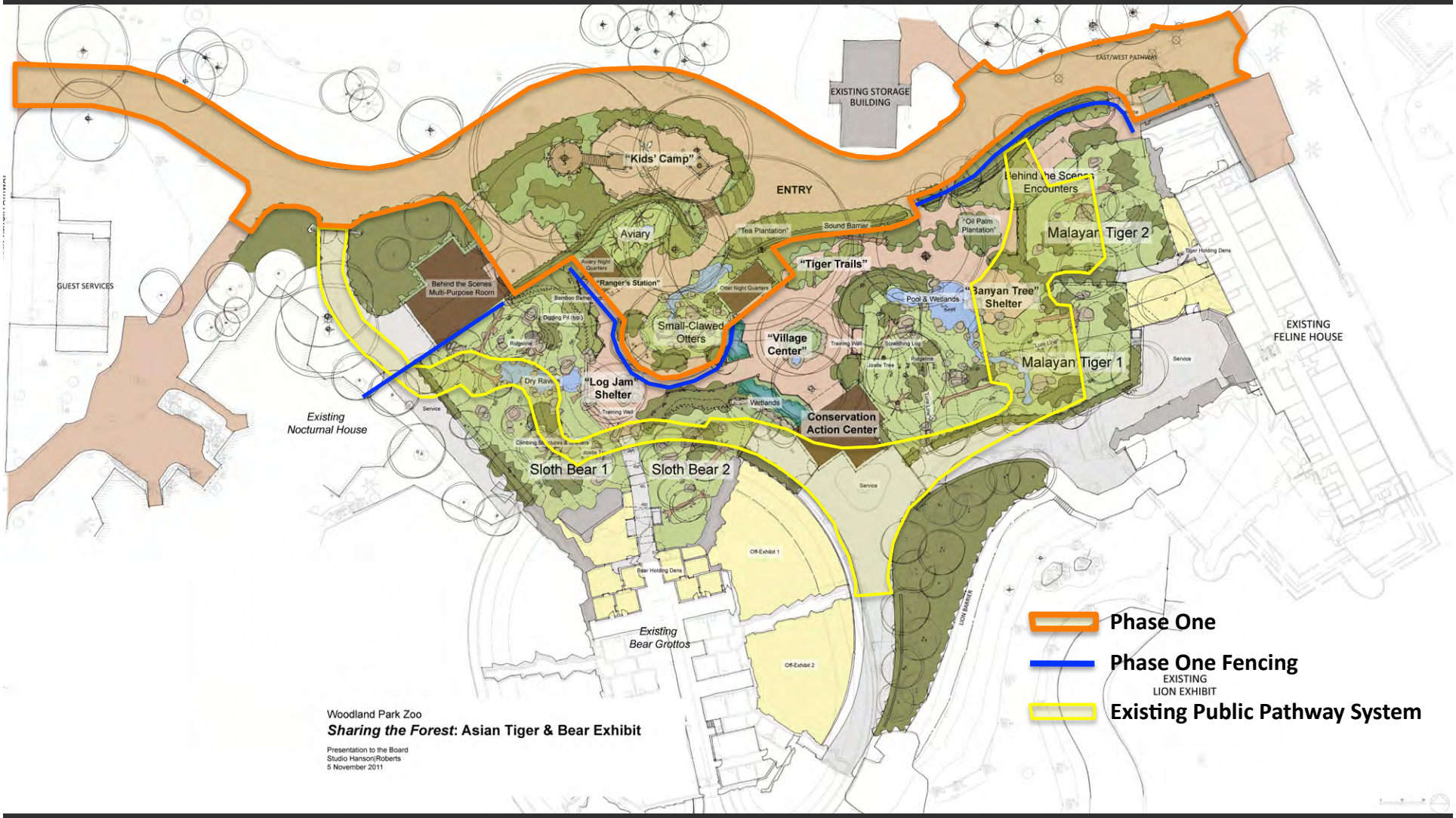
Phase One