

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

# Design Briefing

Seattle Design Commission 16 June 2011

### **Monica Lake**

Project Manager, Woodland Park Zoo

### **Becca Hanson**

Partner-in-Charge, Studio Hanson/Roberts



Sharing the Forest | Asian Tigers & Bears

# **The Consulting Team**

#### Studio Hanson/Roberts

Prime Consultant & Design Lead

Prime Responsibility: Visitor Experience | Interpretation | Animal Habitat & Behavioral Enrichment | Animal Holding & Transfer

Becca Hanson • FASLA, RLA David Roberts • ASLA, RLA David Matthews • AIA Jim McDonough Susan Murray Design Lead, Design Facilitation & Interpretive Coordination Technical Lead: Visitor Experience, Animal Habitats & Holding Project Manager, Design Coordination

Sr. Exhibit Designer Exhibit Designer

### Core Subconsultant Team:

#### **ORB Architects**

Prime Responsibility: Architectural Renovation/Design Life & Fire Safety | Code Compliance Geoff Anderson • AIA, LEED®AP Rick Charbonneau

#### **SvR Design Company**

Prime Responsibility: Civil Engineering | Stormwater Management | Water Use & Irrigation Design Tom von Schrader • PE, LEED®AP Greg Giraldo • PE, LEED®AP

### Oppenheim Lewis, Inc.

Prime Responsibility: Strategic Cost Control Consulting Scott Lewis, Principal

#### Paladino

Prime Responsibility: Eco-Design Workshop & Green Building Review Tom Paladino • AIA

### **CDI Engineers**

Prime Responsibility: Mechanical Engineering Richard Gerber • PE, LEED\*AP Rick Grove • PE, LEED\*AP Leslie Jonsson • PE, CSBA, LEED\*AP

### MLA Engineering, pllc

Prime Responsibility: Structural Analysis & Engineering Michael Leonard • PE, SE Dennis Pradere • PE, SE

### Sparling

Prime Responsibility: Electrical Engineering
Joseph Virnig • PE

# $\underset{(\textit{As Needed})}{\textbf{Specialty Subconsultants:}}$

### T. A. Maranda Consultants

Prime Responsibility: Water Filtration System Design Ted Maranda • PE

#### **Natural Systems International**

Erin English • PE

### Natural Encounters, Inc.

Prime Responsibility: Behavioral Enrichment Support & Animal Training Steve Martin

#### **Scott Taylor**

Prime Responsibility: Ilustration & Visualization

#### Hope Engineering

Mike West • SE

#### SSA Acoustics

Prime Responsibility: Environmental Acoustics Erik Miller-Klein

### James Karl Fisher

Prime Responsibility: Architectural & Environmental Lighting
James Fisher • AIA, RIBA

# **Project Requirements**

### SCOPE:

- •Underscore the Zoo's mission to save animals & their habitats ... by inspiring people to learn, care & act.
- •Maintain the Zoo's high standards of "immersion" exhibitry.
- •Improve animal welfare with >50% increase in current space & improved micro-climate.
- •Improve occupational safety & welfare for Staff.
- •Increase efficiency & effectiveness of servicing & maintenance.
- Minimize energy & water use.

### **BUDGET:**

•\$11.1 million construction budget

# **Project Desirables**

### **DESIGN GOALS:**

- •Incorporate innovative elements that expand on the concept of "immersion". Possibilities include:
  - Create a rich acoustic & olfactory environment that pulls visitors out of "the everyday".
  - Develop a barrier system that contributes to a "sense of place".
- •Define an architectural style that weaves a story of the region without defining a particular place.
  - Reflect the scale & texture of tropical materials & ways of building to create a unique & timeless "sense of place".
- •Define a horticultural palette that differentiates this experience from the Zoo's other existing Asian Tropical Forest experiences.
  - Focus on the use or representation of iconic species that clearly reflect a "different place". (eg. timber bamboo & banyan fig)

# **Content: The Animals**



**Indian Hornbill** 



**Sloth Bear** 



**Asian Small-Clawed Otter** 



**Indian Giant Squirrel** 



**Malayan Tiger** 



**Asian Turtles** 



Chevrotain

# **Content: The Place**



**Sloth Bear Range** 



**Malayan Tiger Range** 

# **Content: The Habitat**





**Tropical Forests** 

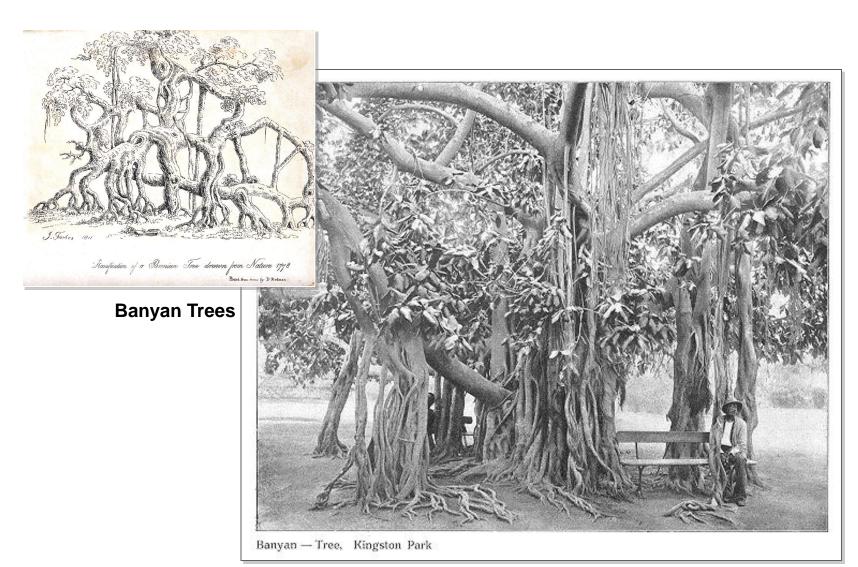
# **Content: The Habitat**





**Timber Bamboo** 

# **Content: The Habitat**



# **Content: The Culture**



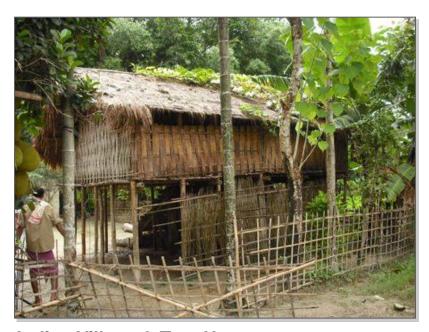
### **Content: The Structures**





**Malay Village Houses** 

### **Content: The Structures**





**Indian Village & Tree Houses** 

# **Content: The Structures**



**Modern Interpretation ...** 

# **Content: The Threats**





**Eucalyptus Plantations** for Pulp



Palm Oil Plantations for Bio-fuel & Food

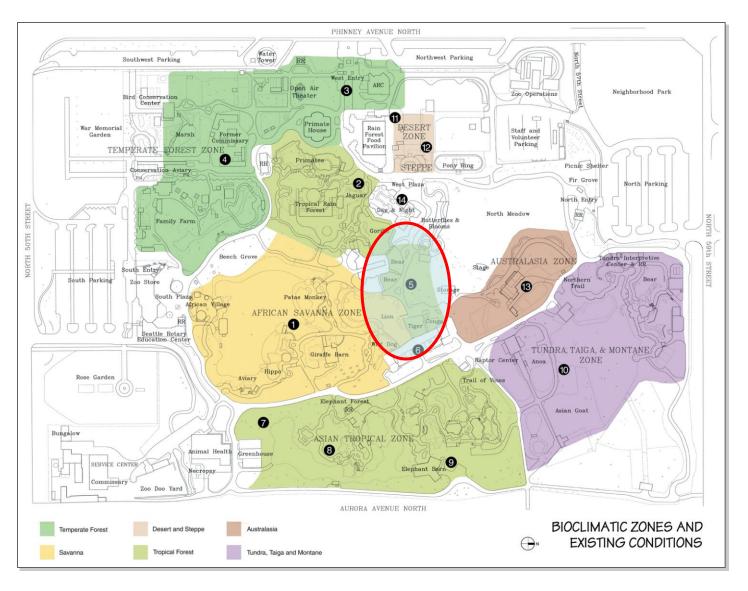
**Tea Plantations** 

### Sharing the Forest | Asian Tigers & Bears

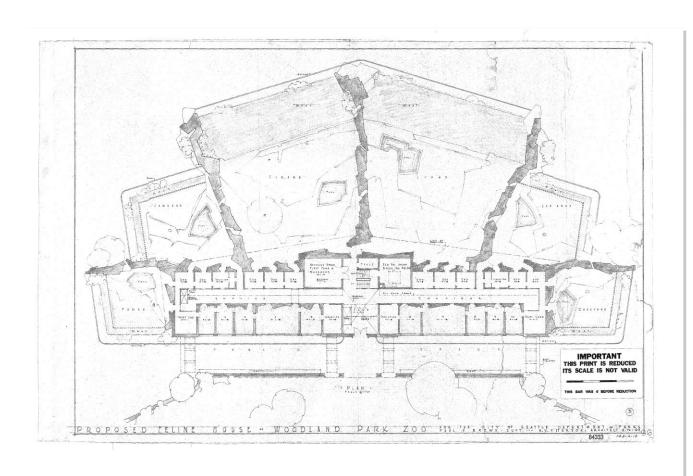
# **The Master Plan**



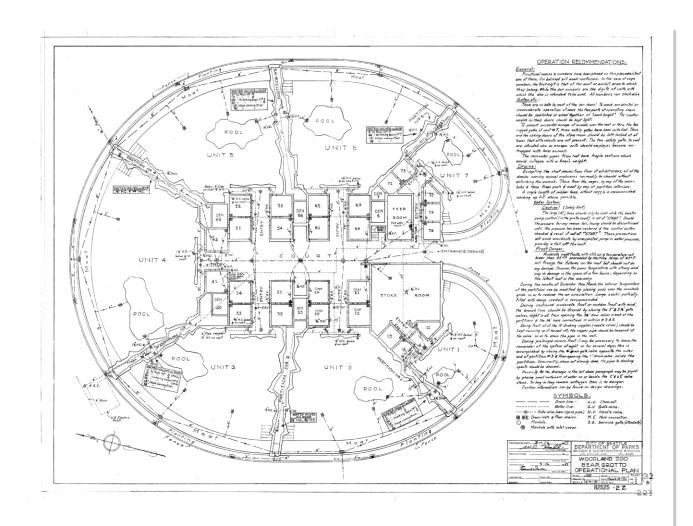
### **The Master Plan**



# Feline House 1949



### **Bear Grotto 1951**



# **Existing Site**



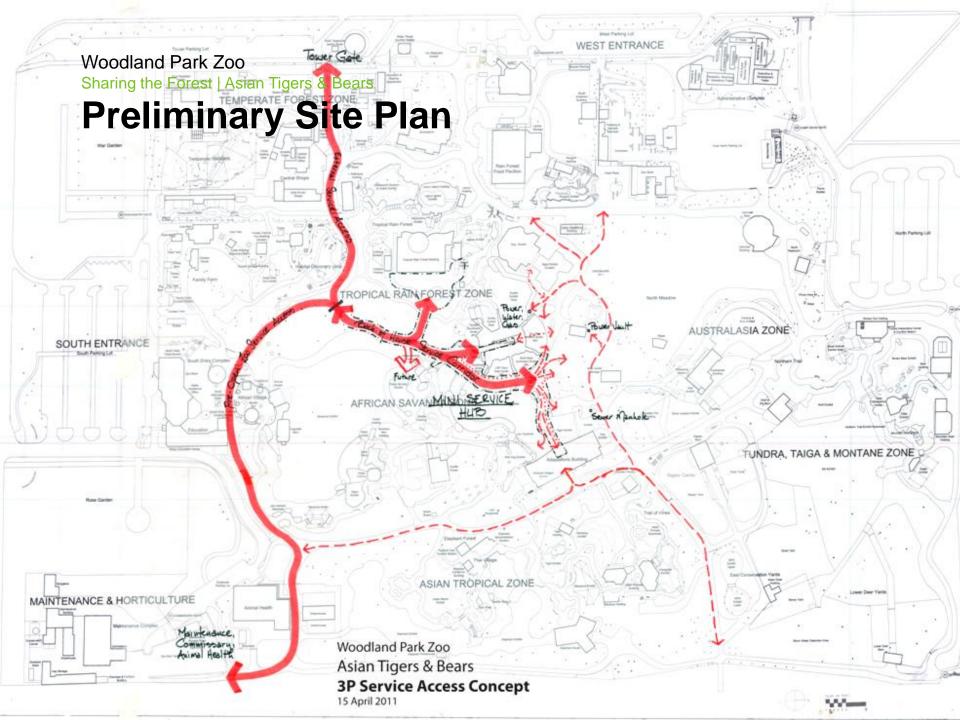
### **Process to Date**

- 4 week long 3P Workshops:
  - Animals
  - Visitors
  - Interpretation
  - Services
- Schematic Design Workshop #1 with Staff
   & Consultant Team.
- Final Schematic Design Workshop: 16 July 2011.

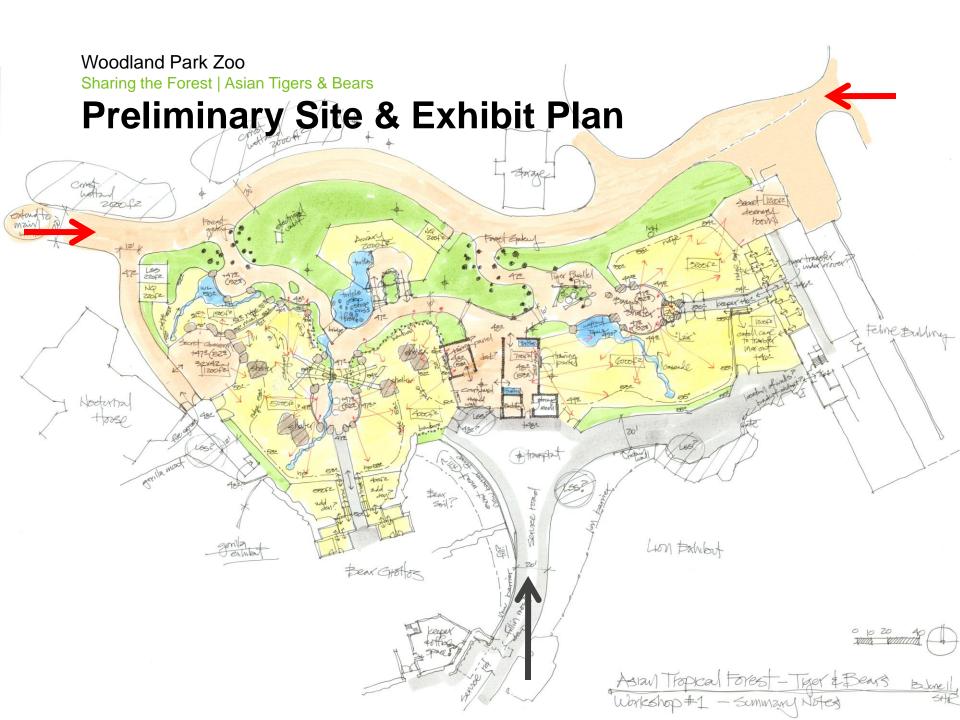




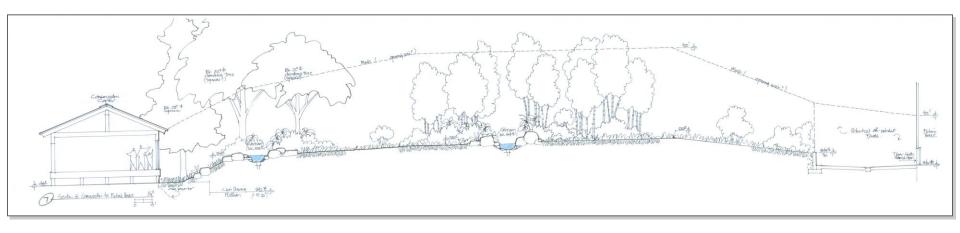


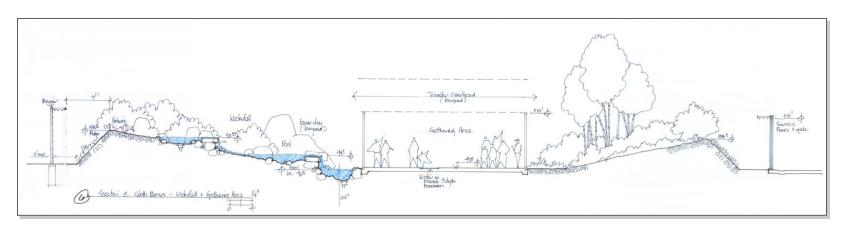


Woodland Park Zoo NOCTURNAL HOUSE Sharing the Forest | Asian Tigers & Bears **Preliminary Exhibit Layout** OTTERS BEAR TENTIAL OFF-EXHIBIT RESTROOMS TIGER" EXHIBIT FELINE HOUSE



# **Representative Sections**



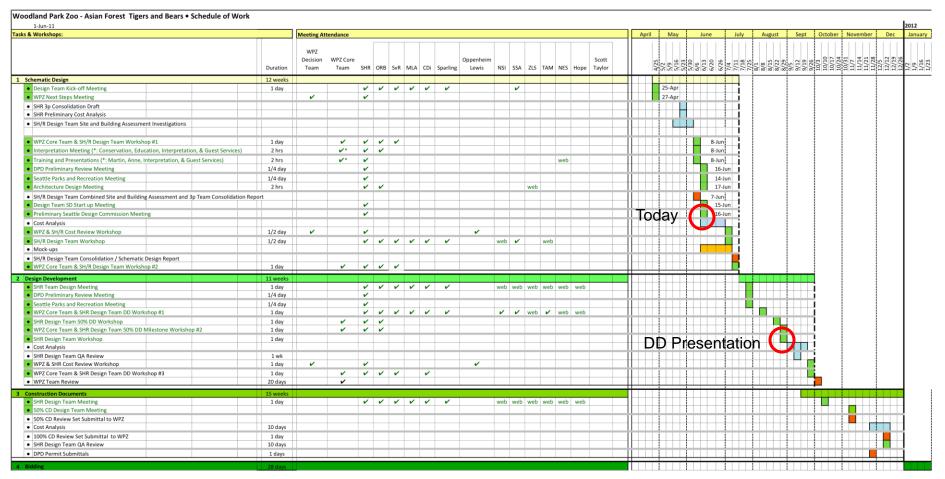


### Woodland Park Zoo

### Sharing the Forest | Asian Tigers & Bears

### **Schedule**

**EXHIBIT C** 





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# **Next Steps ...**

