

Sea Lion Sound Exhibit Project Management



Exhibit Project Management

- The Saint Louis Zoo One of Our Regions Greatest Treasures
- Planning a Major New Exhibit
- Team Composition
- Phases of Design and Construction
- Successful Launch



1904 Flight Cage





Early Years





Shows





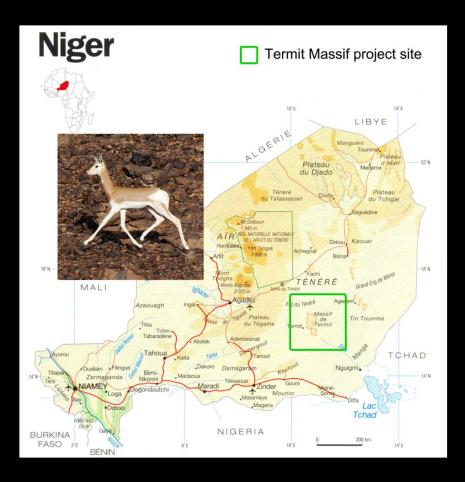


Conservation/Education





Conservation/Education





Animals Always®

The Original Sea Lion Habitat

Circa 1918



The Original Sea Lion Arena





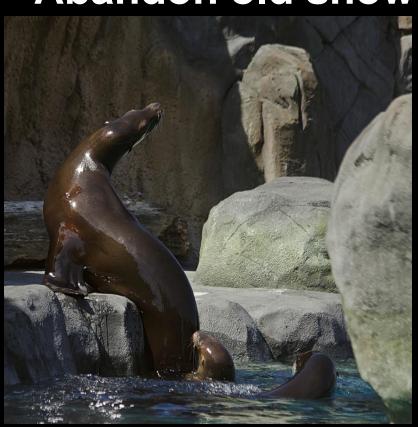
2007 Strategic Plan

- The need for a new pinniped habitat recognized the need to:
 - Conserve water
 - Improve appearance
 - Bring show venue and naturalistic habitat together



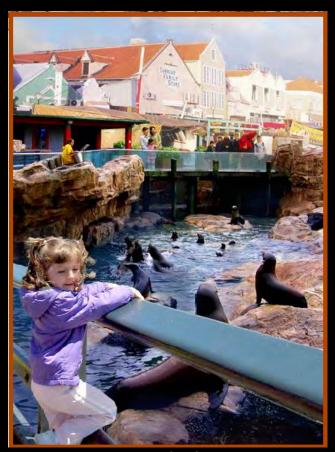


- Central location
- Abandon old show venue

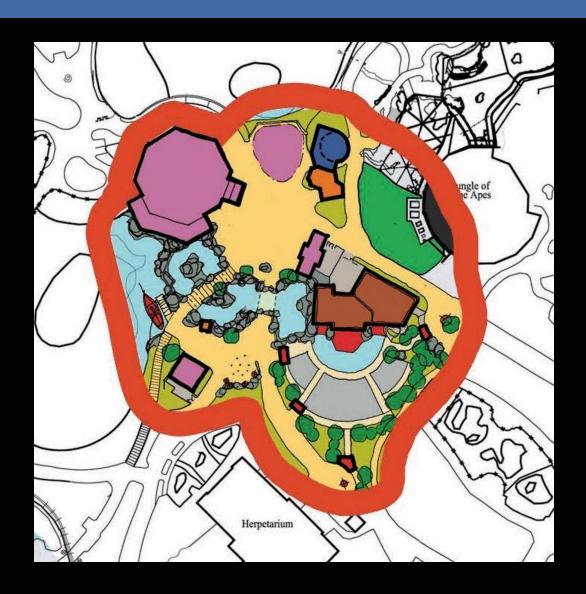




- San Francisco Pier Theme
- Tie architectural elements on surrounding existing buildings to expand theming



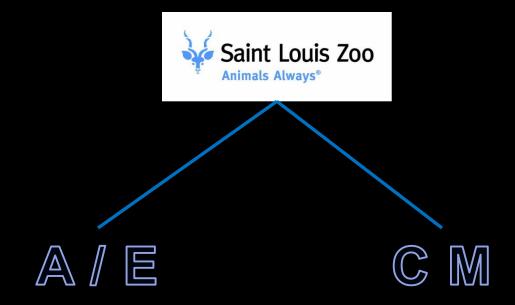




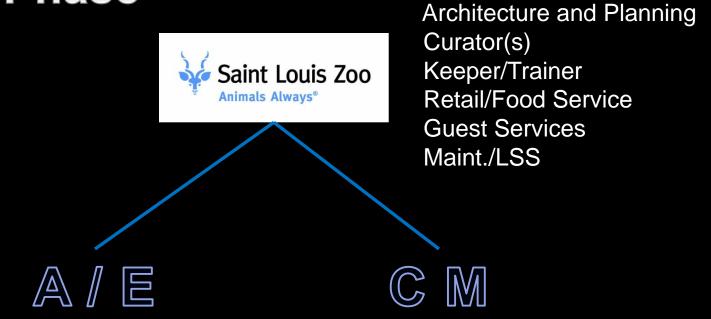






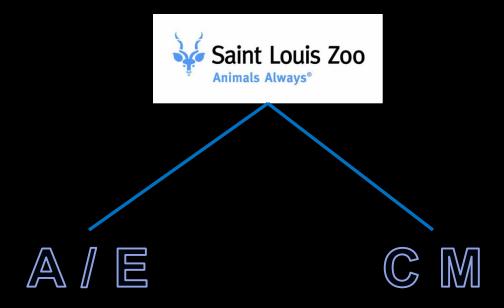






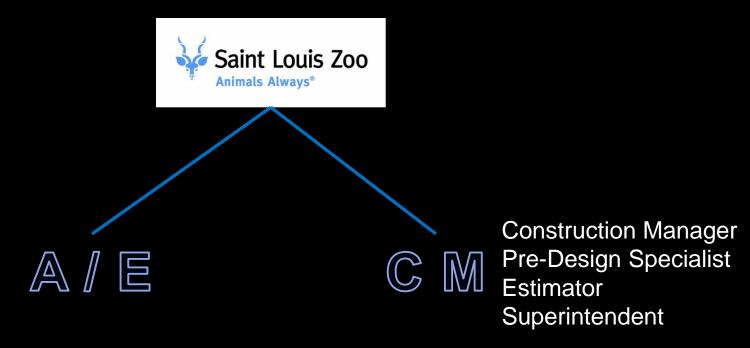


Design Phase



Architect
Landscape Architect
Civil Engineer
Structural Engineer
Mech., Electr., Plumbing Engineers
LSS Engineer
Interpretive Designer







Construction Manager

- Pre-construction services
- Estimating
- Bidding
- Jobsite Supervision
- Financial
- Close-out



Design Team

- Architect
- Landscape Architect
- Civil Engineer
- Electrical, Mechanical, Plumbing Engineers
- Life Support System Engineer
- Interpretation
- Specialties



Owner's Team

- Project Manager and Chief Architect
- Curator
- Trainers
- Keepers
- Life Support System Operator
- Education
- Retail and Food Service



Oversight

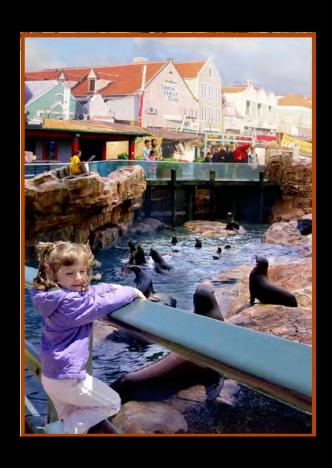
- Zoo Commission + Association Board
- Implementation Committee
- Facilities and Grounds Committee

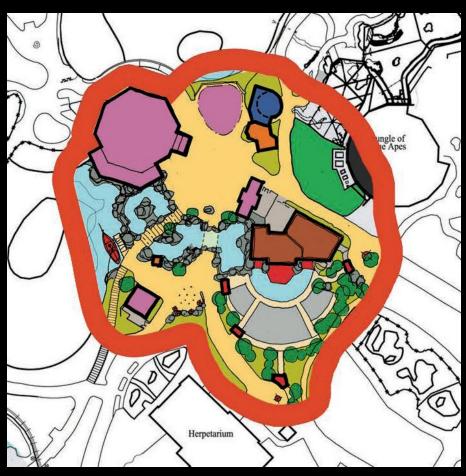


- Concept
- Schematic
- Design Development
- Construction Documentation

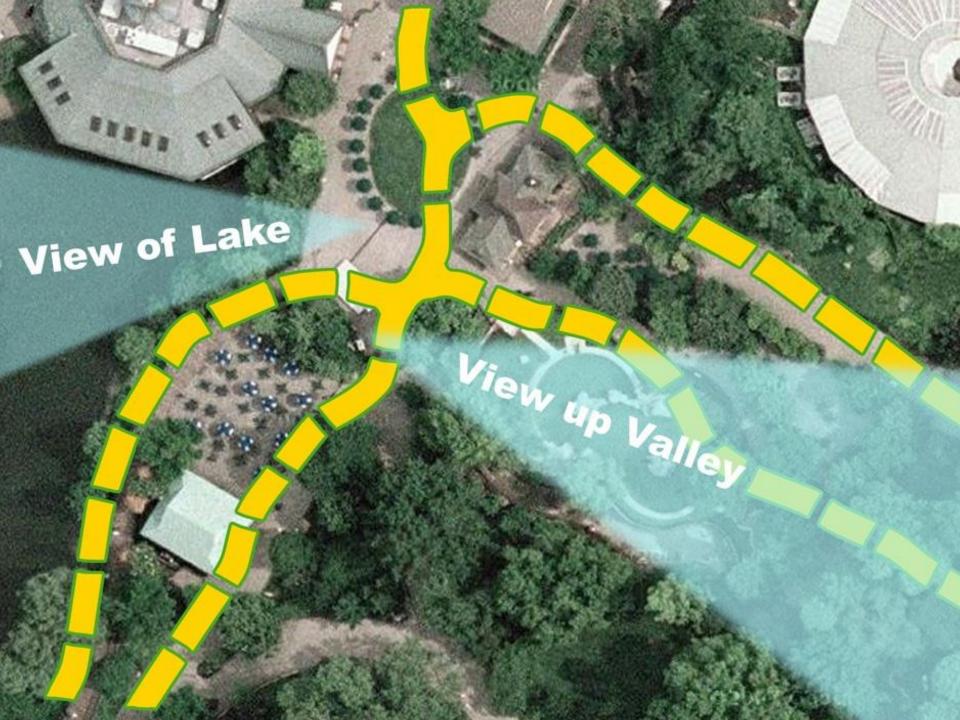


Concept

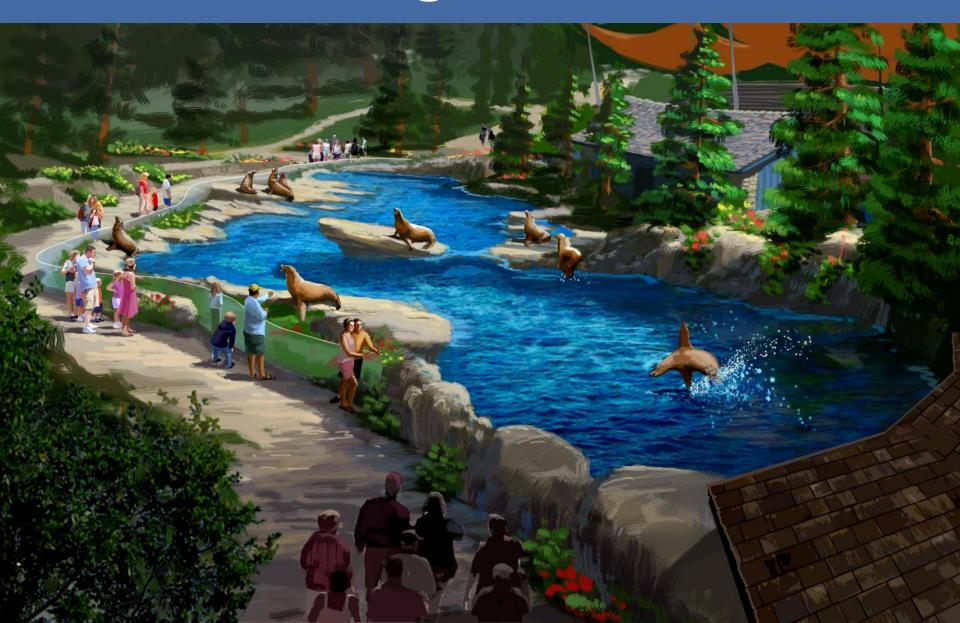
















Concept



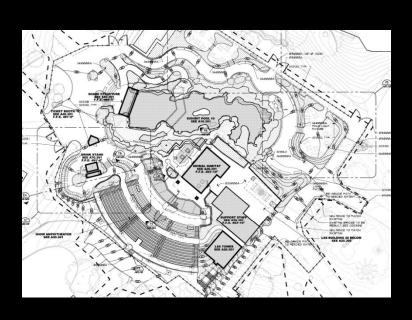


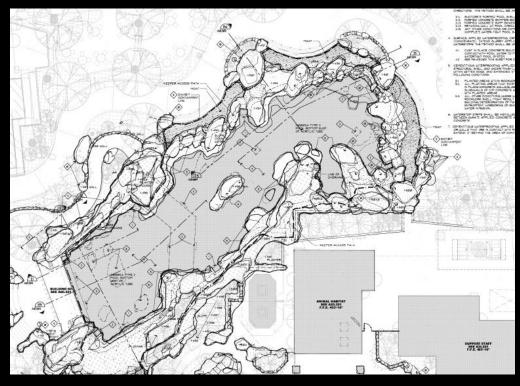


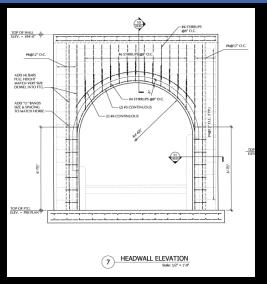
Concept

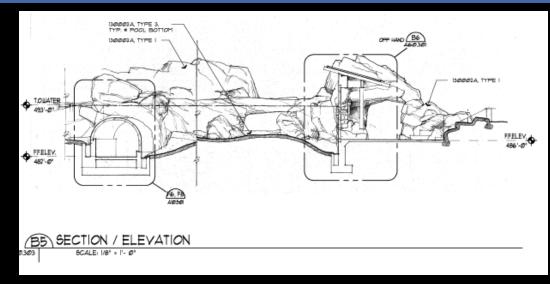


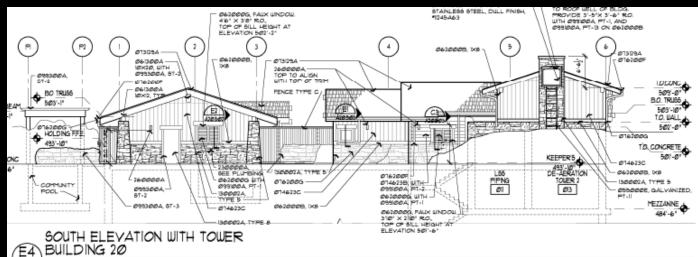
- Schematic
- Design Development
- Construction Documentation





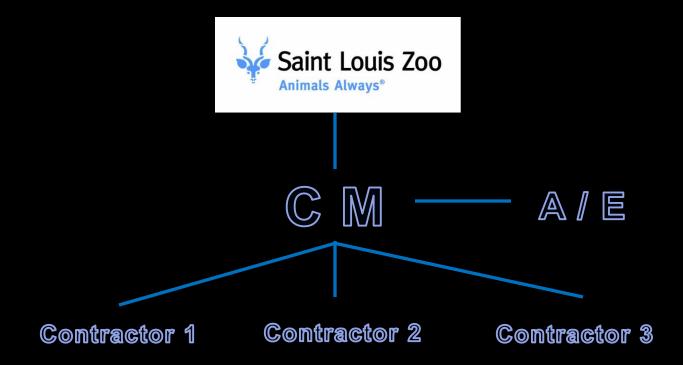








Construction Phase





Bidding and Selection

- Three Major Packages
 - Base Construction Rhodey+Castle \$12,986,000





Bidding and Selection

Three Major Packages

 Artificial Rockwork and Theming – Cemrock \$2,000,000





Bidding and Selection

- Three Major Packages
 - Rain/Shade Canopy Laurence Fabric \$440,000





- Model Building
- Field Work
- Model Refinement
- Test Panels
- Sample Panels



Model Building







Field Work











Field Work











Model Refinement





- Test Panels
- Sample Panels













Life Support

- Salt Water
- Water Purification
- Closed System
- Automation



Acrylic Elements

- Design
- Fabrication
- Installation



Acrylic Elements









Construction Sequence

- Underground Utilities
- Foundations
- Pool
- Structures
- Stage
- Arena
- Landscaping
- Interpretation







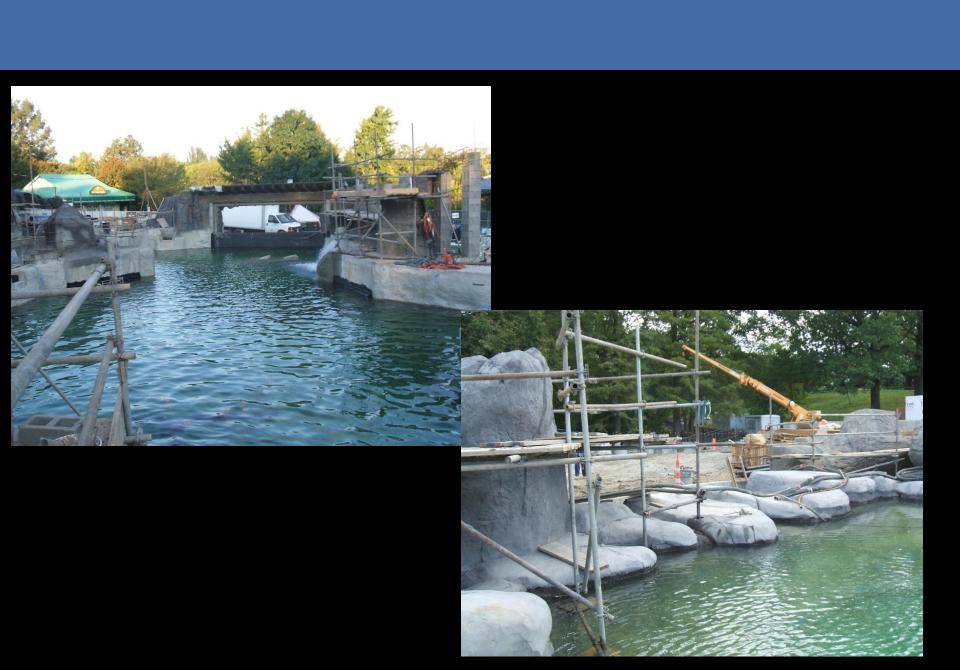


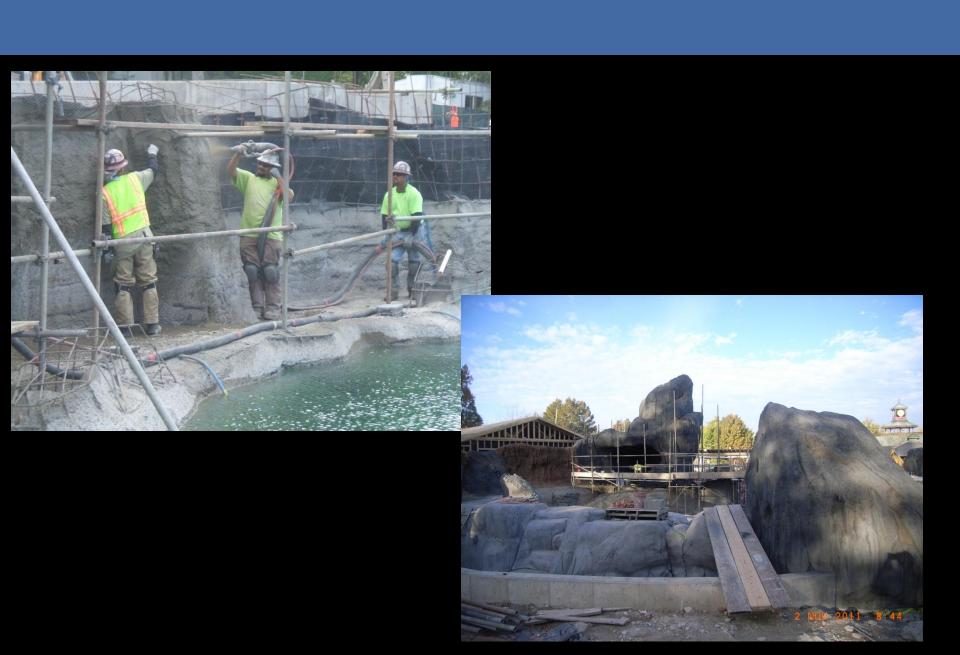
Saint Louis Zoo
Animals Always*



















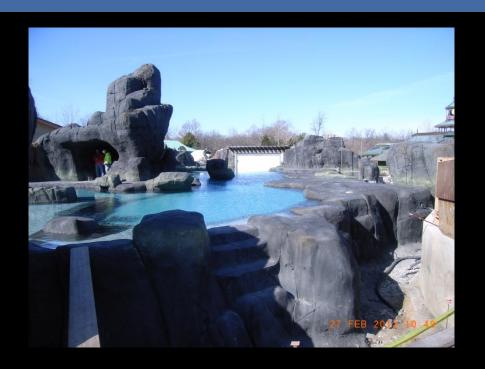


























Commissioning

- Equipment Start-up
- Leak Testing
- LSS Automation
- Animal Acclimation Training
- Ticketing Crowd Control



Completion







Budget Summary

Construction Management (Alberici)	\$ 430,000
Base Construction (Rhodey+Castle)	\$12,986,000
Themed Concrete (Cemrock)	\$2,000,000
Rain/Shade Structure (Laurence Fabric)	\$ 440,000
Interpretative Fabrication (Engraphix)	\$ 344,000
Design (PGAV + SWT)	\$1,800,000

Total \$18,000,000





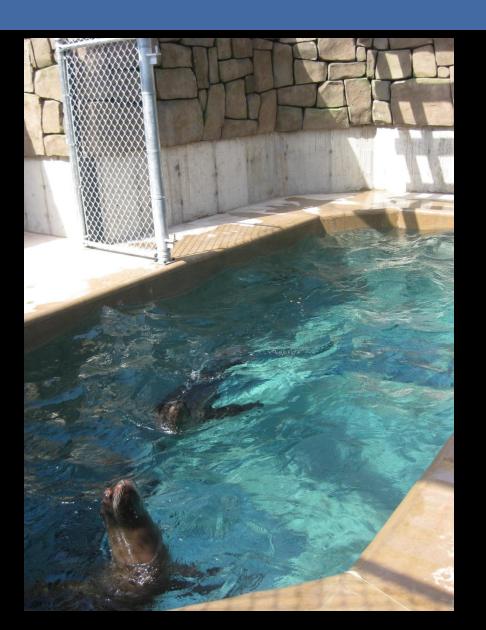














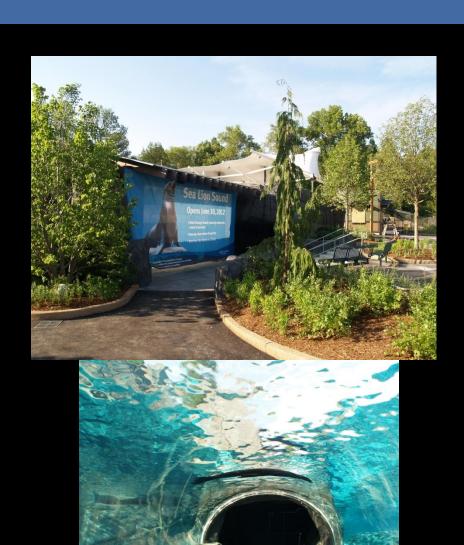


























t Louis Zoo



t Louis Zoo Animals Always®



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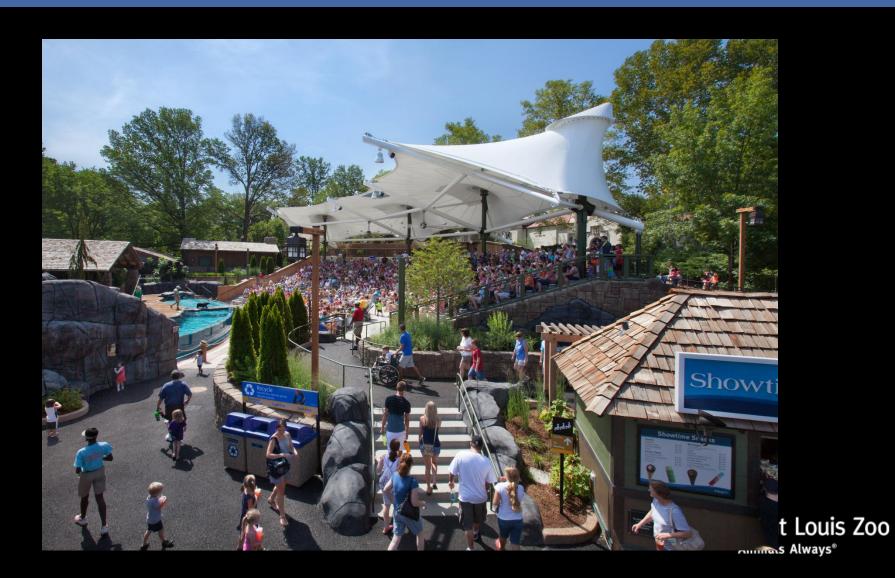
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Thank You!



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