



**Oregon Zoo Bond
Citizens' Oversight Committee**
Conservation Hall, Education Center, Oregon Zoo
Wednesday, Feb. 14, 2017
3 to 5 p.m.

Oregon Zoo Bond
Citizens' Oversight
Committee Meeting
Feb. 14, 2018
Agenda

AGENDA

ITEM	ACTION	ANNUAL REPORT	LEAD	TIME
A. Welcome / Introductions • Agenda overview	Review	Page 18	Ruth Shelly	3:00
B. Minutes of Nov. 8, 2017, Committee meeting	Approve		Ruth Shelly	3:05
C. Monthly Project Status Reports 1. Education Center 2. Polar Passage/Primate Forest/Rhino a. Final Design b. LCL COBID outreach 3. Interpretive Experience 4. Percent-for-Art 5. Electrical Infrastructure	Discuss	Page 22 Page 17, 24, 25, 27, 37, 38, 40 Page 27	Heidi Rahn, Jim Mitchell	3:10
D. Program Status and Financial Information at a Glance	Discuss	Page 40, 41	Heidi Rahn	3:35
E. Program and Projects Schedule	Discuss		Heidi Rahn	3:40
F. Oversight Committee annual report draft review (from two subcommittees) • Finances • Project Progress	Discuss		Ruth Shelly, Heidi Goertzen, Susan Hartnett	3:45
G. Zoo Update	Update		Sheri Horiszny	4:50
H. Open Discussion/Questions	Discuss		Ruth Shelly	4:55

Upcoming 2018 meeting dates –Wednesdays, 3 to 5 p.m.:

- May 9, 2018 Skyline Room, Oregon Zoo
- Sept. 12, 2018 Conservation Hall, Education Center, Oregon Zoo
- Nov. 14, 2018 Skyline Room, Oregon Zoo



Oregon Zoo Bond Citizens' Oversight Committee

Oregon Zoo – Skyline Room
Wednesday, Nov. 8, 2017
3 to 5 p.m.

Oregon Zoo Bond
Citizens' Oversight
Committee Meeting

Feb. 14, 2018

Agenda item B

MINUTES

MEMBERS PRESENT

Susan Hartnett (Vice Chair)
Noah Bishop
Heidi Goertzen
Deborah Herron (via phone/GoTo mtg.)
Mickey Lee
Jill Mellen
Robyn K. Pierce
Katherine A. Porras
Kevin Spellman
Christi L. Taylor

AFFILIATION

Spectator Venues, City of Portland
Bishop Bankruptcy Law, LLC
Ferguson Wellman Capital Management
Walmart
NW Natural
Research Biologist
Pierce, Bonyhadi & Associates
Meyer Memorial Trust
Spellman Consulting, Inc.
Miller Nash Graham & Dunn

MEMBERS ABSENT

Ruth Shelly (Chair)
Dan Aja
Dick Stenson
Karen Weylandt
Daniel S. Morris

AFFILIATION

Portland Children's Museum
Banfield Pet Hospital
Retired healthcare executive; community volunteer
Providence Health & Services
Daniel Morris Research, LLC

GUESTS

None

AFFILIATION

ELECTED OFFICIALS AND STAFF

Stephanie Cameron
Shirley Craddick
Julie Fitzgerald
Caleb Ford
Kate Giraud
Sharon Glaeser
Jim Mitchell
Don Moore
Joel Morton
Linnea Nelson
Heidi Rahn
Grant Spickelmier
Nadja Wielebknowski

Oregon Zoo Marketing and Communications Manager
Metro Councilor
Oregon Zoo Foundation Executive Director
Metro Assistant Finance Manager
Oregon Zoo Bond Assistant Project Manager
PSU PhD. Student, Elephant Welfare Study Research
Oregon Zoo Bond Construction Manager
Oregon Zoo Director
Metro Senior Attorney
Oregon Zoo Bond Program Coordinator
Oregon Zoo Bond Program Director
Oregon Zoo Education Curator
Oregon Zoo Conservation and Research Manager

A. Welcome / Introduction

Vice chair Susan Hartnett opened the meeting at 3:04 p.m., and members and staff introduced themselves. Chair Ruth Shelly is out of town. Two members of the Oregon Zoo Bond Citizens' Oversight Committee ("Oversight Committee" or "the Committee") have resigned in the past two months: Mike Schofield with Gresham-Barlow School District due to being busy with implementing his own school district's bond measure that recently passed; and Tom Turnbull with Open Sesame due to travel conflicts.

Heidi Rahn, zoo bond program director, announced that several members' terms will be ending this coming spring, and she will be recruiting for new members to start in April of 2018. Members' terms that will end in spring 2018 include Noah Bishop, Deborah Herron, Mickey Lee and Daniel Morris. The two positions vacated by the recent resignations can also be filled. Chair Shelly's term will end in December 2018. As part of the new member recruitment process, Ms. Rahn has been meeting with the Coalition of Communities of Color, an organization working with Metro to promote equity on Metro's committees, to see if they can align their interests.

Scott Robinson, Metro deputy chief operating officer and the person to whom the bond program reports, is officially retiring from Metro the end of November. He is traveling out of the country and not able to attend today. Mr. Robinson has been instrumental in setting up the system and parameters of the bond program, has helped navigate the challenges, and has been critical to the success of the program. He will continue working with the bond program for a few months in a consulting capacity, and staff will have access to consult with him. A recruitment for a new Deputy Chief Operating Officer is currently under way.

In December, the zoo bond program reporting will shift to Scott Cruickshank, the Metro general manager of visitor venues, who oversees the zoo, among other Metro venues. He reports to Metro COO Martha Bennett. This is expected to be a seamless transition, since he has been involved with the bond program over the past year. He has attended Oversight Committee meetings before and will attend in the future (he had a prior conflict today and could not attend).

B. Approval of Sept. 13, 2017, Oversight Committee meeting minutes

Members approved the minutes of the Sept. 13, 2017, Oversight Committee meeting.

C. Zoo and Oregon Zoo Foundation Updates

Oversight members were invited to attend an employee preview night of ZooLights on Monday, Nov. 20. They were also invited to purchase tickets for the first BrewLights on Wednesday, Nov. 29, an adult-only evening at ZooLights with breweries, wineries and cideries serving.

Don Moore, Oregon Zoo director, gave an update. He reviewed a trip he made recently to Churchill, Manitoba, Canada with several zoo keepers, Oregon Zoo Foundation staff, and Oversight Committee member Christy Taylor. On their way, they visited the Assiniboine Zoo, which won an award last year for its polar bear habitat. It was great to see habitat elements that are working for them that are also designed into the Oregon Zoo's new Polar Passage project.

Conditions for bears in Churchill are becoming more challenging. While US zoos, including the Oregon Zoo's Polar Passage, could serve as home to bears from the Churchill area, with their designation as "threatened" under the US Endangered Species Act, the US Marine Mammal Protection Act precludes importing polar bears to the US. One exception is for polar bears identified

as research populations. With the success of the Oregon Zoo's work in support of field conservation science, zoo staff are working with zoo colleagues and polar bear conservation stakeholders to encourage establishment of a research population.

While in Churchill, Dr. Moore met with Bill Watkins who wrote the Manitoba Standards for polar bear habitats and placement. Mr. Watkins asked about the plans for saltwater in Polar Passage. Although saltwater is not in the standards, it showed he was concerned about it. All of the Polar Passage pools are planned to have saltwater, a feature that will likely be one consideration for placement of polar bears in the future. Increasing the amount of saltwater in the Polar Passage design was a scope and budget amendment to the project. It is important to build the new habitat to meet the needs of bears, people and research.

Dr. Moore showed a short video clip of a polar bear he observed at Churchill. He discussed the bears' keen sense of smell, their familiarity with seeing visitors and the variable health of the bears observed. He indicated that the Arctic ice has been receding. The Northwest Passage was open for five months instead of the more normal three months. Local people are concerned with the lack of ice coming in for the winter. Ms. Taylor also spoke highly of the trip, indicating that she had learned a lot and was very moved by the encounters with the bears. Dr. Moore said it was stimulating to see the bears in the wild and encouraged members to consider going on another trip to Churchill next year.

The Oregonian featured extended, multi-article coverage of Nora, the Oregon Zoo's young polar bear that recently went to the Hogle Zoo in Salt Lake City. Overall, the five-part series was fair and factual, and the zoo appreciates the great coverage. Ms. Rahn noted one error that said construction was delayed twice due to Nora, and that is not the case. Construction has never been delayed due to Nora.

Yesterday was the zoo's 129th anniversary since its beginning in 1888. That makes it one of the oldest zoos in the US, and the second oldest west of the Mississippi. Dr. Moore thanked Oversight member Dr. Jill Mellen for her early work as a staff person at the zoo. The new Polar Passage will provide visitors with a view into the zoo's polar bear work and history, and efforts to enhance the lives of bears in the wild.

Dr. Mellen shared that she is reviewing literature of visitors' perceptions of animal welfare at zoos, and found that visitors want to know the welfare of individual animals. It may be that they cannot hear a conservation message until they know that an individual animal is properly cared for. She gave kudos to the zoo for its focus on animal welfare, and noted that she hears that focus at every Oversight Committee meeting.

Oregon Zoo Foundation executive director Julie Fitzgerald also gave an update. The OZF board has approved a commitment to provide \$1 million for Primate Forest and rhino habitat projects, and is beginning a campaign to raise that money. The \$750,000 for primates includes a previously reported \$237,000 bequest from a long-term volunteer whose family wanted to make a contribution to chimps. Part of the goal of the campaign is also to engage more donors who have connections to certain animals and want to further support those animals. The OZF board had previously committed \$2.2 million for Polar Passage. Ms. Rahn acknowledged Ms. Fitzgerald for her leadership in guiding the OZF board through the opportunities for supporting the Primate Forest/Rhino project.

D. Monthly Project Updates

Heidi Rahn and Jim Mitchell provided updates:

1. Education Center – The punchlist for the project is complete, and the commissioning of the 731 solar panels is in the final stages. As with most construction projects, the zoo hires a commissioning agent to go through all building systems and make sure they are working properly. After commissioning, the team will implement the building's energy dashboard and track performance for a year for net-zero energy operations certification.

2. Polar Passage, Primate Forest and Rhino – The construction start schedule was extended a month from mid-April to mid-May 2018, mostly due to delays in permitting. Staff is meeting with the City of Portland, hopefully to identify construction early work packages that will allow construction to start while the main permit is still under review.

Cost escalation generally is running about 4.5 to 5 percent. Kevin Spellman said he is seeing higher escalation with certain trades on Portland Public Schools projects (he serves on the PPS Oversight Committee). He noted that the challenge is to take regional or national percentages and apply them to a local project, because each one is unique. Some projects are so large that they have a very limited pool of contractors, because only a few companies have the capacity and size to do so. Other members agreed that capacity in this Portland-metro area is a problem. Mickey Lee is also concerned about losing Northwest Natural's suppliers, as well as a possible 10 percent increase in costs. General contractors Mortenson, Turner and Lease Crutcher Lewis are all saying to estimate 3.5 to 4 percent cost escalation for next year. Vice chair Hartnett is seeing longer lead times than she has ever seen on some supplies for her City of Portland projects. Mr. Spellman encouraged staff to not let the contractor attribute all cost increases to market conditions and cost escalation.

The project team is constantly working to value engineer the project to bring it into budget. With the OZF contributions, the Polar Passage portion appears to be on budget at this time. The team has more work to do on the Primates design, but should have both at 100 percent design development by the first of December. Once 100 percent design development is reached, detailed estimates are due from the contractor and design firm. When those estimates are reconciled, staff will have a better picture of the costs. The zoo bond staff have inserted themselves into design team meetings to make sure the designers stay on track. Ms. Rahn thanked Mr. Mitchell and his team for this extra effort. The project will be at 100 percent design development by mid-December, and design should be completed in May 2018. Some aspects of design will be completed and submitted to the City in February for the construction early work packages, e.g., for demolition and some civil work. Roughly four to five months of early work can be progressing while the zoo waits for the main building permit to be reviewed and approved. Mr. Mitchell agreed to send the Committee a link to the next version of the project design.

Lease Crutcher Lewis as the construction management by general contractor is required to submit a plan for reaching its COBID goal. The zoo will include the Metro procurement director in finalizing that plan. The Committee will hear more on that in the winter when the plan is finalized.

3. Interpretive Experience – The zoo front entrance wayfinding kiosk is complete, and the interpretives project has no other updates.

4. Percent-for-Art – On November 16 the Metro Council will be asked to approve the artwork concept and locations as recommended by the Oregon Zoo Public Art Advisory Committee and the commissioned artists Edwin and Veronica Dam de Nogales. (Metro Resolution 17-4833 and accompanying staff report were distributed at the meeting as part of the meeting packet.) The proposed artwork bookends the habitat with a “melting ice bear” sculpture and two playful polar bear benches. Oversight vice chair Hartnett represented the Oversight Committee on OZPAAC and met the artists. In order to share the artists’ passion directly with the Metro Council, the artists created a video explaining the process and meaning of the artwork. The video was shown to the Committee, and a copy will be included with the record.

The bear benches provide a tactile experience with the bears, and an invitation to touch and become a part of them. The melting ice bear on the northern gateway of the project will be in quieter area where the viewer can reflect with the bear. The artists are excited about the material – aluminum – not just because of the silvery-white color, but rather because it reflects that human response of the polar bear as ambassador of conservation. Ninety percent of the aluminum in the world is recycled and reused, and is reminiscent of being globally responsive and responsible. The artists feel it is rare to have a material that is so appropriate for the artwork and message. The melting ice bear sculpture helps indicate that the ice and bear are one: if there is no ice, then there is no habitat for the bear. The sculpture explores the feeling of the presence and absence of the bear and ice, as the bear is disappearing with the iceberg, and as his habitat is floating and melting away. OZPAAC considered local artists, but chose these artists who are from Spain and Montreal, Canada. OZPAAC discussed extensively how to accommodate safety and climbing of the sculpture, and the artists worked hard to discourage climbing and make it safe. The artists will fabricate and ship the artwork prior to the Polar Passage project being complete. The zoo will store the art until near the end of the project when it will be installed.

5. Electrical Infrastructure – Zoo Facilities continues to manage the Electrical Infrastructure project. The contract with Portland General Electric for the Dispatchable Service Generation partnership has been signed. PGE will contribute \$576,600 to fund upgrades for the DSG participation, and that amount was added to the project budget. The generator replacement design and engineering are 100 percent complete, and the project will be advertised for bid in November. The electrical feeders for the lower portion of the zoo were replaced, and the electrical panels in AfriCafé and the Animal Nutrition Center were replaced.

6. Elephant Lands – The meeting packet includes the final report of Elephant Lands, which is the 62nd monthly report and represents more than five years of work. The \$57 million project is \$157,000 under budget, and that money will go back into the bond program’s unallocated contingency. On October 26, 2017, staff submitted a state-required report to the Metro Council, acting as the Metro Contract Review Board, on the outcomes of using construction management by general contractor (CM/GC) for the project. The report (included in the Oversight meeting packet) was well-received by the Council. Using CM/GC helped address the various project challenges, including phasing of construction, and testing and correcting equipment and designs in early phases. Ms. Rahn thanked Mr. Mitchell for bringing the project in under budget. Vice chair Hartnett led a round of applause for Elephant Lands’ success. The lessons learned from that project are helpful for implementing the Polar Passage project.

E. Program Status and Financial Information at a Glance

The updated financial report shows the increased contribution from OZF for the Primate Forest/Rhino project. The program is currently showing more than \$2 million in unallocated contingency, mostly because Metro deputy finance director Caleb Ford updated the interest earnings forecasts. At the beginning of the program the interest forecast was for \$2 million, but then in the middle of the program it was decreased to \$1.5 million based on the rates at that time. Lately rates have been stronger, so he raised the forecast back to the original \$2 million. Metro has \$10 million more zoo bonds to sell, and will combine them with Metro Natural Area bonds in a sale in spring 2018. Strategically it is cheaper to combine the two sales, and since Natural Areas needs to sell in the spring, and the zoo bonds don't need to be sold then but can, Metro will put them up for a public sale. If the zoo bonds were sold separately, it would not be a public sale. Staff are not expecting a premium from the sale, but would not be surprised if Metro receives one.

F. Program and Projects Schedule

The Polar Passage/Primate Forest/Rhino project construction start date is now mid-May. The end date could change later, which may alter staffing and budgets.

G. Subcommittee selection for Committee annual report

Vice chair Hartnett discussed the Committee's annual process for preparing its annual report to the Metro Council, covering activities for the calendar year 2017. This report is the single largest, tangible product of the Committee. It is a collaborative process with staff helping with formatting and editing. Each year two subcommittees are formed to report on the requirements as noted in Committee charter, a copy of which is in meeting packet. The subcommittees usually start meeting in December, and prepare a report draft for the Committee in February to review and revise. Chair Shelly presents the completed report to the Metro Council in March or April, and it is published on the zoo website. Vice chair Hartnett said she will do one of the committees, but was not yet sure which one. The following members volunteered:

Project progress subcommittee: Mickey Lee and Kevin Spellman.

Finances subcommittee: Heidi Goertzen and Katherine Porras.

Noah Bishop volunteered for either. If anyone else is interested, they can join later.

H. Preliminary results of elephant welfare study, before, during and after construction of Elephant Lands

Nadja Wielebnowski, Oregon Zoo conservation research manager, and Sharon Glaeser, PSU graduate student reported on the preliminary results of the elephant welfare study before, during and after the construction of Elephant Lands. They gave a presentation, a copy of which is included with the record. The study period and collection of data are complete, and the study is in the analysis phase now. The researchers have a huge set of data to process and it takes much time. They provided a brief recap of the study.

The study is an animal-based welfare assessment looking at the individual animals. Since the study accounts for each animal's history and experiences, the information is relative, and not absolute. The study used three types of welfare indicators and collected data in three major areas: behavior, physiology, and physical appearance and health. The study was conducted over four years, including one year before and one year after construction. In addition to the samples collected during this period, the zoo also has 20 years of elephant blood data sampling to reference.

She summarized the study's preliminary findings:

- Increase in exploratory behaviors
- Increase in behavioral diversity
- Increase in resource use and choices
- Improved foot health
- Elephants adapted well to new habitat.

Researchers are confident in what the data is showing. The elephants have more choices in how to use their resources, and how food is delivered. They were observed using almost all the resources offered, and with their food delivery location and timing being unpredictable, they walk more to check for food.

The study included adrenal hormone monitoring, which measures stress. Some stress is normal, such as part of the reproductive cycle, or an important response for flight and protection. Stress would be expected when the animals have changes, such as when a calf is born. The elephants should be able to respond to events and not have chronic high or low stress levels. During construction, the elephant Shine had to learn from the elephant Chendra how to get food, since she went from being fed to having to find food. The final study analysis will present a picture on each animal. The adrenal hormone data shows an amazing resilience of all of the zoo's elephants in adapting to the new habitat. The reproductive data for males and females also shows normal cycling, which is another good indicator that they are doing well. The zoo's long-term studies help with being able to know what to expect as a baseline.

Researchers are planning to have even more extensive monitoring of all species that will be affected by the upcoming Polar Passage/Primate Forest/Rhino project construction. Scheduled to start in early 2018, they will include the same system to collect hormone data, and plan to add an element to look at noises and soundscapes in the habitats. A new graduate student will start in February to assist with the study.

Ms. Glaeser responded to members questions. With more analysis, researchers will probably be able to tell where animals like to spend most of their time. Ms. Glaeser was not sure if elephants are slimmer now with more exercise, but she did say that they have different muscle tone from climbing more, and appear to be in better shape than before. The elephants that were isolated due to tuberculosis had two people with them all day long, and the animals enjoyed the extra keeper attention. Although those elephants were not together with the herd, they still knew where each other were and were in communication. In the new habitat, the young elephant Lily wanted to explore, so she showed the others what could be done. She helped them go through the change of not wanting to make their own choices to seeking their food in the new automatic feeders.

Mr. Mitchell indicated that automatic feeders have not been requested for Polar Passage, but Primate Forest will have them.

Dr. Wielebnowski said it is not the end of the study, and they will continue to monitor for animal management and improvement. The findings will be published through a variety of forums for other zoo professionals and the public. One report was published in 2012, and two more will be forthcoming. They will also be presented at Association of Zoos and Aquariums annual conferences and elephant management conferences, and shared with other partner institutions. Zoo marketing

also publishes press releases and finds other opportunities to share with the community, including online.

I. Preliminary report on Education Center operating program outcomes

Zoo education curator Grant Spickelmier reviewed a memo with a preliminary report on the zoo Education Center program outcomes. (A copy of the memo is included with the record.) He reviewed the six goals for the Education Center, and reported on the operating impacts of goals #3 through #6. He did not report on the interpretive goals #1 and #2 at this time, but will conduct focus groups and report on them in 2018.

Goals:

3. Increase capacity to engage diverse audiences in conservation education.
4. Raise the visibility and support the work of nature, conservation and sustainability organizations by connecting them with zoo audiences.
5. Generate revenue to offset operation costs.
6. Showcase green living and sustainable practices (achieve LEED gold or higher).

Mr. Spickelmier reported strong positive results in achieving these goals. The Education Center has quickly become a local pillar of conservation education, with an impact that will continue to deepen each year. The center would not be the vital community resource that it is today without the tremendous support of the partners, donors and voters. He thanked the Oregon Zoo Foundation for its support of Title 1 schools in supporting goal 3. In support of goal 4, many conservation organizations wanted to engage with zoo visitors and feel the zoo is a great place to connect with diverse audiences. The partner work will continue, and Metro is including in its proposed budget for next fiscal year a half-time person to work in the Education Center's Wildlife Garden. Mr. Spickelmier gave kudos to zoo catering staff for their role in generating revenue and achieving success with goal 5. The Nature Exploration Station (NESt) has been a popular rental venue.

He reviewed four actions the zoo will take over the coming year to make adjustments to the Education Center operations and capitalize on its successes. He is excited about its trajectory.

Members asked several questions. All Title 1 schools in the Metro boundary – approximately 120 schools and 11,000 third graders – were invited to attend the zoo and ZooSchool compliments of OZF. Some schools were not able to make the trip due to the travel distance, so the zoo is looking at outreach options to send the ZooSchool out to them.

Mr. Spickelmier did not know yet what percent of visitors coming through the zoo gate are visiting the Education Center, but will be monitoring it to find out. Anecdotally, it seems like approximately 20 percent, but that is not verified.

ZooCamp prices did increase this past year, and were at 87 percent fill rate. Members expressed concern that the cost of participation at the new facilities may exclude people. The zoo does have scholarship support for some low income families, is being conscious of costs, and does not want to outprice middle income people. Ms. Fitzgerald has spoken with people who are thrilled to contribute to educational opportunities for children, and OZF will be working to find such people.

The zoo provides many reduced-rate options to make the zoo more affordable to all. The Discount Tuesdays will be discontinued during the summer months due to unsafe traffic back-ups on Hwy. 26, but will continue for now during the other months. In September 2017, the zoo began the *Zoo For All* program that provides \$5 admission any day to Oregon and Washington individuals and families who qualify for a variety of income assistance programs. In addition, military veterans and seniors have free days, school groups enjoy discounts, TriMet riders receive a discount, and summer Twilight Tuesdays offer discounted admission. Oregon Zoo admission is underpriced by \$5 compared to all other west coast zoos and aquariums.

Dr. Moore noted that OZF staff are working as hard as he has ever seen a support group work. They have ramped up their efforts and are getting zoo staff and leadership out talking with groups and potential donors. Ms. Fitzgerald appreciated the acknowledgement, but noted that her group has a long way to go to communicate that there is a need for private support for a public zoo. She encouraged people to let her know of any potential contributors.

J. Open Discussion/Questions

The quarterly zoo bond *Equity in Contracting* report for October is still waiting on data from one of the architects, and will be sent to the Committee later.

Staff is preparing a memo on the costs of operating Elephant Lands after one full fiscal year, and will send that to the Committee later as well.

Robyn Pierce attended an equity workshop sponsored by Metro on Nov. 1, 2017, and shared some of her impressions. Scott Winn led the workshop on a strategy for structural transformation. Participants looked at oppression, oppressed groups, targets, and bringing more equity into their daily lives. Vice chair Hartnett recommended individuals take the implicit bias surveys offered online through Harvard University, which she found to be beneficial and revealing.

K. Adjournment

Vice chair Hartnett adjourned the meeting at 5:05 p.m.

Upcoming 2018 meeting dates –Wednesdays, 3 to 5 p.m.:

Feb. 14, 2018 Conservation Hall, Oregon Zoo
May 9, 2018 Skyline Room, Oregon Zoo
Sept. 12, 2018 Conservation Hall, Oregon Zoo
Nov. 14, 2018 Skyline Room, Oregon Zoo



Oregon Zoo Bond
Citizens' Oversight
Committee Meeting

Feb. 14, 2018

Agenda item C

Oregon Zoo Bond Citizens' Oversight Committee meeting

Feb. 14, 2018

Agenda Item C. Monthly Project Status Reports

1. Education Center
2. Polar Passage/Primate Forest/Rhino
3. Interpretive Experience
4. Percent-for-Art
5. Electrical Infrastructure



Oregon Zoo Bond Project Status Report Education Center

Oregon Zoo Bond
Citizens' Oversight
Committee Meeting

Feb. 14, 2018

Agenda item C-1

Project Title: Zoo Education Center	Project Manager: Kate Giraud
Reporting Period #052/Status Date: January 22, 2018	Project Manager Phone: 503-548-2677
Architect/Engineering Design Consultant: Opsis Architecture	Construction Manager/General Contractor: Fortis Construction
Project Description: The zoo Education Center will be located at the site of the original zoo entrance. It will provide flexible and engaging education program activity spaces for camps, classes, and zoo visitor and program partner use. In addition to the education programming at the Center, the project includes visitor comfort amenities identified for the "West Hub" in the Comprehensive Capital Master Plan, including but not limited to: train ticket sales, restrooms, wayfinding/trip-planning material, seating and food. Finally, this project includes a portion of infrastructure improvement work, identified in the Master Plan, to address storm water and aging site utilities.	

Status at a Glance

Status Item	On Track	Caution	Off-track
Budget	X		
Schedule and signoffs	X		
Deliverables	X		

LEGEND:

	Moving along nicely, no significant concerns at this time.
	Must be addressed or may be escalated to off-track mode.
	Causing significant impact to the project.

Design and Construction Schedule

START DATE		COMPLETION DATE	
ESTIMATED	CONTRACT	ESTIMATED	SUBSTANTIAL COMPLETION
4/21/14	6/25/14	1/3/17	12/28/16

Project Budget and Expenditures

ORIGINAL BASELINE	REVISED BASELINE	COSTS TO DATE OF STATUS	ESTIMATE AT COMPLETION	ESTIMATED BUDGET VARIANCE
\$12,899,510	\$17,699,157*	\$17,392,986	\$17,482,791	(\$216,366)

* The Education Center budget was updated in December 2017 with all allocated resources. In April 2016 the budget was updated with funding from unallocated bond contingency (authorized by Metro Council) for add-alternate list and net-zero solar energy, plus additional funding for south entry storm pipe construction (co-funded with City of Portland), Metro Resource Conservation and Recycling funds for the Wildlife Garden construction, and previous bond project savings reinvested to meet state solar requirements and security infrastructure.

Critical Issues

None at this time.

Summary Status

Milestones/deliverables/information for this reporting period:

- The Education Center received an Engineering Excellence Grand Award at the 2018 American Council of Engineering Companies (ACEC) Awards Dinner on January 17, 2018. The Engineering Excellence Awards is an annual design competition that recognizes engineering achievements which demonstrate the highest degree of merit and ingenuity.

Education Center

- Contractors are working on the final task of programming the digital controls and completing the energy dashboard.

Planned milestones/deliverables/information for the next reporting period:

- Continuation of digital control programming and contract close-out tasks.



Oregon Zoo Bond Project Status Report Polar Passage/Primate Forest/Rhino

Oregon Zoo Bond
Citizens' Oversight
Committee Meeting

Feb. 14, 2018

Agenda item C-2

Project Title: Polar Passage/Primate Forest/Rhino	Project Manager: Jim Mitchell
Reporting Period #025/Status Date: January 22, 2018	Project Manager Phone: 503-914-6025
Architect/Engineering Design Consultant: CLR Design	Construction Manager/General Contractor: Lease Crutcher Lewis (LCL)
<p>Polar Passage Project Description: The new polar bear habitat is needed to increase access to natural substrate; increase the efficiency of the water-filtration system; reduce temperatures; chill the pool water; and increase both land and pool space. Construct modern natural holding areas with better lighting and ventilation, allowing better care for the animals. Space requirements, water quality and housing conditions will meet or exceed the Manitoba Protocols established for zoo polar bears. New utilities will complete the system upgrade installed with previous bond-funded projects. Guest services will be enhanced at the new central plaza.</p>	
<p>Primate Forest/Rhino Project Description: The current schematic design demolishes the existing building (except for the newer Red Ape Reserve) and rebuilds on the current primate site for chimpanzees, orangutans and gibbons. The Metro Council approved the project scope modifications on March 16, 2017. Rhino habitat: Remove the hippo dump-and-fill pool, remove the barrier between the rhino/hippo habitats and re-grade both habitats for rhino use only.</p>	

Status at a Glance

Status Item	On Track	Caution	Off-track
Budget	X		
Schedule and signoffs	X		
Deliverables	X		

LEGEND:

	Moving along nicely, no significant concerns at this time.
	Must be addressed or may be escalated to off-track mode.
	Causing significant impact to the project.

Design and Construction Schedule

START DATE		COMPLETION DATE	
ESTIMATED	CONTRACT	ESTIMATED	SUBSTANTIAL COMPLETION
05/2016	6/2016	06/2020	TBD

Project Budget and Expenditures

ORIGINAL BASELINE	REVISED BASELINE	COSTS TO DATE OF STATUS	ESTIMATE AT COMPLETION	ESTIMATED BUDGET VARIANCE
\$34,348,074	\$43,802,256*	\$1,812,179	\$43,802,256	\$0

*On Feb. 4, 2016, the Metro Council approved the bond team's recommendation to increase the Polar Passage project budget by \$2.6 million to cover escalation costs exceeding the original estimated escalation.

On March 16, 2017, the Metro Council approved additional bond fund resources increasing the Polar Passage project budget by \$3,248,334 (\$2,200,000 from OZF and 1,048,334 from the program contingency) and increased the Primate Forest/Rhino project budget by \$2,605,848 to offset escalation costs.

On April 6, 2017, the Metro Council approved an exemption to competitive procurement by combining Polar Passage and Primate/Rhino projects under the existing design and Construction Management/General Contractor contracts to save an estimated \$1.3 million in construction costs. Project budgets and schedules have been combined.

In August 2017, the Nancy Parr estate donation of \$237,333 for Primate Forest was added to the project budget.

On October 5, 2017, OZF approved \$750,000 (including the \$237,333 Nancy Parr estate donation) for Primate Forest and \$250,000 for Rhino.

Critical Issues:

None at this time

Summary Status:

Milestones/deliverables/information items for this reporting period:

- Bond staff held open house meetings with zoo staff to review 100 percent design development drawings.
- Bond staff, Metro Procurement staff and LCL met to strategize COBID outreach. The discussion included the following:
 1. Aspirational Target
 2. General Outreach
 3. Apprenticeships/On the Job Training
 4. Workforce Diversity
 5. Bid Packaging
 6. Bonding/Insurance
 7. Technical Assistance
 8. Lewis Liaison
- The COBID opportunities are limited due to the type of work involved in zoo habitats and holding buildings. LCL continues to conduct outreach to the COBID community to generate interest in the project. See attached *Equity in Contracting Quarterly Report, January 16, 2018*, for more details of LCL's COBID outreach activities.
- Estimates were received from LCL and DCW Cost Management; both firms are working to reconcile the estimates, which have a variance of \$3.9 million and exceed the project construction budget by 10 percent to 20 percent.

Planned milestones/deliverables/information for the next reporting period:

- Design Workshop #11 is scheduled to take place at the zoo January 30 thru February 1. The workshop will focus on value engineering opportunities and budget options.
- CLR, LCL and the bond team are coordinating an early work package, EWP, submittal for the City. The EWP will consist of building demolition and rough grading. The timing of the EWP and the main permit approval have critical factors to ensure LCL does not run out of early work prior to the permit being issued for the main project.

Construction progress:

- Construction is estimated to start in spring 2018.



Oregon Zoo Bond Program
Equity in Contracting Quarterly Report (continued)
January 16, 2018
For services through December 31, 2018

The zoo bond program and its contractors engage in a variety of activities to increase equity in contracting and utilization of COBID-certified firms. COBID refers to the State of Oregon Certification Office for Business Inclusion and Diversity. This office provides certifications including Minority-Owned Business Enterprise (MBE), Women-Owned Business Enterprise (WBE), Service-Disabled Veteran-Owned Businesses (SDV) and Emerging Small Business (ESB). SDV certification started on January 1, 2016.

The Oregon Zoo Bond program has an aspirational COBID-utilization goal of 15 percent (by dollar value of COBID-eligible work) for each construction project. As of December 31, 2017, the program has a total COBID utilization rate of 14.7 percent for construction contracts. Scopes of work that are not provided by COBID firms are not included in the COBID-eligible contract dollars. Percentages are expressed as a percent of the COBID-eligible contract dollars, which include all general contractor costs. Before 2016, certified firms were referred to as MWESB-certified firms. Zoo bond projects that started before 2016 used that earlier terminology.

The zoo bond program and its contractors' good faith efforts are summarized by project below, including quarterly highlights of the most recent efforts.

2017 4th Quarter Update: October – December 2017

**Polar Passage/Primate Forest/Rhino,
Lease Crutcher Lewis, CM/GC; CLR Design, design team**

CM/GC

Lease Crutcher Lewis has a construction management by general contractor (CM/GC) contract for the Polar Passage/Primate Forest/Rhino project. Once design is complete and bid packages are determined in the spring of 2018, LCL will prepare a more detailed diversity outreach plan. (LCL provided a proposed diversity plan in its CM/GC proposal, included in the previously reported section of this report, starting on page 12.) Subcontractor bidding is planned for spring 2018, with construction scheduled to start in spring 2018.

LCL is performing COBID community engagement in the industry and on behalf of the PPR project. LCL is committed to growing COBID capacity in the construction industry as a whole, including apprenticeship training, opportunities for minority-owned and women-owned firms and other disadvantaged businesses in the industry. The company is actively engaged, through both sponsorship and attendance, with a number of organizations in the metro area that work to build capacity in the industry. Below is a list of some of the areas where they have participated and talked about what a great project Polar

Passage/Primate Forest/Rhino (PPR) is going to be. LCL's specific outreach since the summer of 2017 is listed:

Portland Business Development Group – PBDG's primary purpose is to improve the business conditions in the construction industry by increasing the capacity and utilization of DMWESB construction and professional services contractors. Andy Dykeman, LCL senior project manager, attended the PBDG bimonthly meetings to talk about LCL projects, including the zoo, on multiple occasions, including July 12, Sept. 9 and Nov. 15, 2017. Both he and Sarah Jimenez, also with LCL, were at the last meeting on Nov. 15 and talked to a number of firms about the project. LCL is currently scheduled to host a future meeting in its Lewis office in January 2018. This will be a great opportunity to showcase the zoo project as it gets closer to bidding, and zoo bond project staff will be invited.

National Association of Minority Contractors – NAMC works for the interests of Portland's certified minority-owned (MBE) construction and professional services. They work to build relationships between subs and primes, and advance firms capacity. They are also an advocacy group that works to effect policy changes affecting their members and the industry. Mr. Dykeman attended NAMC meetings on July 5 and Nov. 1, 2017, at Metro Regional Center and talked as he always does about the PPR project, among LCL's other projects. David Torres of LCL and Mr. Dykeman also attended a special invitation meeting on Sept. 6 to provide input to NAMC's one-year and five-year strategic vision, and how partner firms like LCL can contribute to their organization. He also met separately on Oct. 9, 2017, with Nate McCoy, NAMC's executive director, to review how LCL as a partner firm can work with NAMC to advance NAMC's mission. They talked about advocacy, legislative issues, the labor market/apprenticeship, barriers to increases in capacity, where the value lies for members and partner firms, Mr. Dykeman's role as a board member for Associated General Contractors, and how AGC may be able to use its network and workers compensation insurance-buying power to both grow membership and advance the core missions of both groups. They also talked about potential ways the state or other entities can use their buying powers to facilitate growth for COBID firms.

Oregon Association of Minority Entrepreneurs – OAME is an organization that seeks to increase capacity of disadvantaged businesses. This is a much bigger organization, and might be the oldest, and is a great networking organization. Because it's so good for networking, LCL tries to get broad exposure for its project managers, project engineers and preconstruction staff. LCL is a longtime sponsor and has had regular attendance at the monthly meetings. Since June 2017, LCL has had 12 different staff attend the meetings, network, build relationships and talk about their upcoming projects. LCL is planning on having a separate "meet and greet" to share project information and provide bidding support for OAME members as they get closer to bidding PPR.

BestHQ – BestHQ is a business incubator and resource for entrepreneur firms, primarily in Beaverton, and focuses on MWESB firms, but are really open to all companies. In this way, it serves a somewhat different market. It helps provide mentorship, office space and technical assistance for growing firms. LCL is a sponsor and has participated in a number of its events in 2017. In June 2017, LCL sponsored and attended its annual BizExpo event, which is a reverse vendor fair. LCL was also a part of its Entrepreneur Business Academy on Sept. 22, 2017, which is an entrepreneur networking event that aims to partner new firms with established firms for mentoring and growth opportunities. LCL also worked with BestHQ

in 2017 to help facilitate a mentoring agreement between LCL and Fulcrum Construction, a small minority-owned general contracting firm in Beaverton, Oregon.

Metro – Mr. Dykeman was actively engaged with Metro’s consultant to provide significant historical data and time for interviews in July and August 2017 for Metro’s Regional Construction Workforce Market Study as part of its Construction Career Pathways Project (C2P2) project.

Columbia Willamette Workforce Coalition – Mr. Dykeman and Shelton Davis, LCL estimator and member of LCL’s diversity committee, are participants in a workforce group for the CWWC, administered by Worksystems, Inc. The workforce coalition is working to develop a regional workforce plan to address workforce challenges and identify opportunities in the construction industry. LCL has been mostly engaged in the apprenticeship and training focus groups, and also participated in various meetings.

LCL is engaged with a host of other organizations where LCL works to address capacity issues locally and regionally, including **National Association of Women in Construction** (LCL is a sponsor and Lauren Holmes, LCL project manager, is a past president), **Constructing Hope** (LCL is placing apprentices from this pre-apprenticeship program for at-risk individuals and will place as many as feasible at the zoo PPR project), and **Architecture Construction Engineering (ACE) Mentor Program** (LCL has a number of people engaged in this program for high school students interested in Architecture/Construction/Engineering).

Design

CLR Design heads the architectural consultant team for Polar Passage, and per the Metro Council action in April 2017 that combined the remaining bond projects, CLR’s contract was amended in July 2017 to include the Primate Forest and Rhino projects. As of December 31, 2017, it **has a projected COBID utilization rate of 24.0 percent.** (This is separate from the bond program aspirational COBID utilization goal for construction contracts.)

Total CLR Design Contract \$:	\$3,977,999	
Total COBID-eligible Contract \$:	\$3,977,999	
Total COBID Contract \$:	\$ 956,644	24.0%
WBE	\$ 248,429	6.2%
ESB	\$ 708,215	17.8%

Six of the 11 architectural subconsultants are certified COBID firms:

1. TJP Engineering (life support systems), WBE
2. DCW Cost Management (cost estimating), WBE
3. PLACE Studio, ESB
4. Equilibrium Engineers (structural engineering), ESB
5. Listen Acoustics (acoustical engineering), ESB
6. Terry O’Connor Consulting



Oregon Zoo Bond Project Status Report Interpretive Experience

Oregon Zoo Bond
Citizens' Oversight
Committee Meeting

Feb. 14, 2018

Agenda item C-3

Project Title: Interpretive Experience	Project Manager: Kate Giraud
Reporting Period #73/Status Date: January 22, 2018	Project Manager Phone: 503-548-2677
Project Description: Interpretive elements are the printed, graphical and electronic activities, experiences and signage in and around exhibits that provide mission-based communication to connect guests with the zoo's animals, mission and values. In addition to explaining information at exhibits, the interpretive experience will address campus orientation and wayfinding, branding, amenities, and the holistic guest experience.	

Status at a Glance

Status Item	On Track	Caution	Off-track
Budget	X		
Schedule and signoffs	X		
Deliverables	X		

LEGEND:

	Moving along nicely, no significant concerns at this time.
	Must be addressed or may be escalated to off-track mode.
	Causing significant impact to the project.

Design and Construction Schedule

START DATE		COMPLETION DATE	
ESTIMATED	CONTRACT	ESTIMATED	CONTRACT
2/27/12	3/12/12	4/26/19	12/31/19

Project Budget and Expenditures

ORIGINAL BASELINE	REVISED BASELINE	COSTS TO DATE	ESTIMATE AT COMPLETION	ESTIMATED BUDGET VARIANCE
\$3,876,412	\$2,766,640*	\$2,501,240	\$2,766,640	\$0

*Interpretive budgets were historically allocated and included with each major project budget. The program originally determined it would be best to track and manage Interpretives as a stand-alone project, and budgets were modified for this change.

As of January 2014, Interpretive budgets were reallocated back to the remaining projects (Education Center, Polar Bears and Primate).

In April 2017, the Interpretives budget was updated to reflect all additional funding sources: \$25,000 US Fish and Wildlife Service grant for condor interpretive videos, \$130,000 Oregon Zoo Foundation grant for Elephant ID mobile app and Elephant Lands donation station, and \$146,993 from the zoo renewal and replacement fund for additional wayfinding scope.

Critical Issues

No critical issues to report for this period.

Summary Status

Milestones/deliverables/information for this reporting period:

- Ramsay Signs confirmed that the additional fans and replacement monitors for the front entrance ticket booths will be installed by the end of January. These are the final items on the punch list.
- The Central Plaza wayfinding kiosk has been fabricated and will be stored in the zoo's gated storage area until 2019 when the Central Plaza is completed as part of the Polar Passage project. This is the final kiosk to be installed.

Planned milestones/deliverables/information for the next reporting period:

- Front entrance ticket booth punch list completion



Oregon Zoo Bond Project Status Report Percent-for-Art

Oregon Zoo Bond
Citizens' Oversight
Committee Meeting

Feb. 14, 2018

Agenda item C-4

Project Title: Percent-for-Art	Project Manager: Kate Giraud
Reporting Period #72/Status Date: January 22, 2018	Project Manager Phone: 503-548-2677
Project Description: Metro Council Resolution 11-4282 approved the recommendation to use the Percent-for-Art funds for zoo bond program programmatically rather than on a project-by-project basis. This enables a more strategic approach to the selection and installation of public art at the zoo and leverages the monies to greater effect for the public and the campus.	

Status at a Glance

Status Item	On Track	Caution	Off-track
Budget	X		
Schedule and signoffs	X		
Deliverables	X		

LEGEND:

	Moving along nicely, no significant concerns at this time.
	Must be addressed or may be escalated to off-track mode.
	Causing significant impact to the project.

Project Schedule

START DATE		COMPLETION DATE	
BASELINE	REVISED	BASELINE	REVISED
n/a	10/1/09	n/a	6/25/20

Project Budget and Expenditures

BUDGET BASELINE	COSTS TO DATE OF STATUS	ESTIMATE AT COMPLETION	ESTIMATED BUDGET VARIANCE
\$843,154*	\$672,470	\$843,154	\$0

*Budget baseline includes \$20,000 from an Oregon Cultural Trust grant and \$30,000 donated by the Oregon Zoo Foundation to help fund the Willard Martin Mosaic restoration and reinstallation efforts.

Critical Issues

None at this time.

Summary Status

Milestones/deliverables/information for this reporting period:

- Edwin and Veronica Dam de Nogales, the two commissioned artists for Polar Passage, noted that it will take approximately one year to complete the pieces. Bond staff will coordinate with the artists to identify storage needs prior to delivery.
- The final deliverable for approval by the Oregon Zoo Public Art Advisory Committee (OZPAAC) is a zoo long-term art management strategy. This strategy is currently in draft form and will be ready for review by OZPAAC in March. OZPAAC will likely sunset in March as they complete their responsibilities.
- Bond staff sent a public art investments memo to the zoo Oversight Committee on Dec. 29, 2017, detailing the public art investments by the bond program. The program is on track to exceed the one percent for art construction requirement.

Planned milestones/deliverables for the next reporting period:

- Edwin and Veronica Dam de Nogales will provide a status update at the next Oregon Zoo Public Art Advisory Committee (OZPAAC) meeting, currently scheduled for March 7.
- Reinstallation of the six Warren Illif sculpture garden pieces on zoo grounds is scheduled for spring 2018.



Oregon Zoo Bond Project Status Report Electrical Infrastructure

Oregon Zoo Bond
Citizens' Oversight
Committee Meeting

Feb. 14, 2018

Agenda item C-5

Project Title: Zoo Electrical Infrastructure	Project Manager: John Sterbis						
Reporting Period #08/Status Date: January 30, 2017	Project Manager Phone: 503-525-4297						
Architect/Engineering Design Consultant: Various	Construction Manager/General Contractor: Various						
<p>Project Description: The Electrical Infrastructure project replaces two outdated emergency power generators and associated electrical infrastructure critical to servicing animal areas and supporting animal and guest safety. It includes six subprojects – each with its own scope, schedule and budget – that are being managed by zoo Facilities Management and paid with zoo bond funds, per a signed Memorandum of Understanding with the zoo bond program:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">1. Lower Service Road Feeders</td> <td style="width: 50%;">4. Animal Nutrition Center Panel Replacement</td> </tr> <tr> <td>2. Roundhouse Automatic Transfer Switch</td> <td>5. Middle Service Road Feeders</td> </tr> <tr> <td>3. AfriCafé Panel Replacement</td> <td>6. Generator Replacement and DSG Upgrades</td> </tr> </table> <p>This project was added to the bond program by the Metro Council on March 16, 2017.</p>		1. Lower Service Road Feeders	4. Animal Nutrition Center Panel Replacement	2. Roundhouse Automatic Transfer Switch	5. Middle Service Road Feeders	3. AfriCafé Panel Replacement	6. Generator Replacement and DSG Upgrades
1. Lower Service Road Feeders	4. Animal Nutrition Center Panel Replacement						
2. Roundhouse Automatic Transfer Switch	5. Middle Service Road Feeders						
3. AfriCafé Panel Replacement	6. Generator Replacement and DSG Upgrades						

Status at a Glance

Status Item	On Track	Caution	Off-track
Budget	X		
Schedule and signoffs	X		
Deliverables	X		

LEGEND:

	Moving along nicely, no significant concerns at this time.
	Must be addressed or may be escalated to off-track mode.
	Causing significant impact to the project.

Design and Construction Schedule

START DATE		COMPLETION DATE	
ESTIMATED	CONTRACT	ESTIMATED	CONTRACT
9/1/16	various	06/01/18	NA

Project Budget and Expenditures

ORIGINAL BASELINE	REVISED BASELINE	COSTS TO DATE OF STATUS	ESTIMATE AT COMPLETION	ESTIMATED BUDGET VARIANCE
\$1,500,000	\$2,076,600*	\$525,967	\$1,974,000	(\$102,600)

*Project budget was updated July 2017 with \$576,600 in additional resources from Portland General Electric to fund upgrades to zoo generators for Dispatchable Service Generation participation.

Critical Issues

None at this time.

Summary Status

Milestones/deliverables/information for this reporting period:

- Generator Replacement and Middle Service Road/VMC Feeders – The Middle Service Road and Veterinary Medical Center electrical feeders replacement project will be performed in conjunction with the generator replacement project. The construction invitation to bid has been released on ORPIN and bids are due on January 31, 2018. A permit application has been submitted to the city. Construction is to occur in spring 2018.
- Replaced the electrical feeders that provide electricity to the lower portion of the zoo.
- Replaced the electrical panels in AfriCafé and the Animal Nutrition Center.

Electrical Infrastructure

Planned milestones/deliverables/information for the next reporting period:

- AfriCafé and Animal Nutrition Center Panel Replacements – Contractor to complete additional controls and punch list work by February 15, 2018.



Oregon Zoo Bond Program
 Project Status and Financial Information at a Glance
 Expenditures and Revenue through December 2017

Oregon Zoo Bond
 Citizens' Oversight
 Committee Meeting
 Feb. 14, 2018
 Agenda item D

Program Budgets and Expenditures						Project Budgets	Zoo Bond Fund Expenditures	Nonbond Fund Expenditures	Total Project Expenditures	Project Forecasted Total Expenditures
Construction Projects										
Veterinary Medical Center	Complete	Complete	Complete	Complete	Complete	\$ 9,464,299	\$ 8,840,329		\$ 8,840,329	\$ 8,840,329
Penguin Life Support System	Complete	Complete	Complete	Complete	Complete	\$ 1,800,000	\$ 1,762,250		\$ 1,762,250	\$ 1,762,250
Water Main Building	Complete	Complete	Complete	Complete	Complete	\$ 267,459	\$ 242,495		\$ 242,495	\$ 242,495
Elephant Lands	Complete	Complete	Complete	Complete	Complete	\$ 57,561,443	\$ 54,147,246	\$ 3,260,000	\$ 57,407,246	\$ 57,407,246
Condors of the Columbia	Complete	Complete	Complete	Complete	Complete	\$ 2,628,592	\$ 2,215,609		\$ 2,215,609	\$ 2,215,609
Remote Elephant Center					Project Eliminated	\$ 117,864	\$ 39,672	\$ 78,191	\$ 117,864	\$ 117,864
Education Center	Complete	Complete	Complete	Complete	Complete	\$ 17,699,157	\$ 15,914,961	\$ 1,478,025	\$ 17,392,986	\$ 17,482,791
	% Complete					Note 2				
Polar Passage/Primate Forest /Rhino	Complete	PP 90% DD		Complete		\$ 43,802,256	\$ 1,812,179		\$ 1,812,179	\$ 43,802,256
	% Complete	PFR 90% DD				Note 1				
Electrical Infrastructure	% Complete				27%	\$ 2,076,600	\$ 525,967		\$ 525,967	\$ 1,974,000
Close-out Contingency	% Complete					\$ 1,000,000	\$ 5,010		\$ 5,010	\$ 1,000,000
Interpretives										
Program Interpretive Experience	Complete	Complete				\$ 2,766,640	\$ 2,199,248	\$ 301,993	\$ 2,501,240	\$ 2,766,640
	% Complete		95%							
Percent-for-Art										
One-Percent-for-Art Requirement	Complete	Complete	Complete	Complete	Complete	\$ 843,154	\$ 622,470	\$ 50,000	\$ 672,470	\$ 843,154
	% Complete				20%					
Planning Projects										
Comprehensive Capital Master Plan	Complete	Complete	Complete	Complete	Complete	\$ 1,850,000	\$ 1,691,504		\$ 1,691,504	\$ 1,691,504
Stormwater/ Wastewater Analysis	Complete	Complete	Complete	Complete	Complete	\$ 160,000	\$ 159,979		\$ 159,979	\$ 159,979
Stormwater Minor Projects & Campus Surv	Complete	Complete	Complete	Complete	Complete	\$ 386,797	\$ 386,797		\$ 386,797	\$ 386,797
Land Use Processes										
Land Use – New CUMS	Complete	Complete	Complete	Complete	Complete	\$ 796,785	\$ 816,777		\$ 816,777	\$ 816,777
Land Use – Amended CUMS	Complete	Complete	Complete	Complete	Complete	\$ 110,429	\$ 142,617		\$ 142,617	\$ 142,617
Program Administration										
Program Administration, Metro Central Support and Bond Issuance						\$ 7,200,000	\$ 5,423,990		\$ 5,423,990	\$ 7,200,000
Unallocated Program Contingency										\$ 2,269,855
Unallocated Program Contingency										\$ 2,269,855
Expenditure Totals							\$ 96,949,098	\$ 5,168,209	\$ 102,117,307	\$ 151,122,161

Program Resources	Expected Amount	Zoo Bond Fund Revenues Received	Nonbond Revenues Received	Total Revenues Received/Issued	Funds Not Yet Received
General Obligation Bonds, premiums and interest	\$ 141,184,623	\$ 130,756,012		\$ 130,756,012	\$ 10,428,611
Oregon Zoo Foundation	\$ 7,918,000		\$ 6,018,000	\$ 6,018,000	\$ 1,900,000
Grants, donations, rebates and partner investments	\$ 2,019,539		\$ 1,057,605	\$ 1,057,605	\$ 961,934
Resource Totals	\$ 151,122,161	\$ 130,756,012	\$ 7,075,605	\$ 137,831,617	\$ 13,290,545

Reports will show newly added items for two months' reports:
 Note 1 - OZF approved \$750,000 (including the \$237,333 Nancy Parr estate donation) for Primate Forest and \$250,000 for Rhino.
 Note 2 - In December 2017, the Education Center budget was updated with all allocated resources (added \$195,032).



PROJECTS SCHEDULE
Oregon Zoo Bond Program
 As of Jan. 12, 2018

Oregon Zoo Bond Citizens'
 Oversight Committee Meeting
 Feb. 14, 2018
 Agenda item E

Task Name	Start	Finish	2018				2019							
			Qtr 2	Qtr 3	Qtr 4	Qtr 1	Qtr 2	Qtr 3	Qtr 4					
Consolidated Bond Program Schedule	10/1/09	8/13/20												
Water Main Building	10/26/09	7/29/11												
Veterinary Medical Center	11/12/09	1/24/12												
Land Use Permits	3/16/10	1/28/13												
Comprehensive Capital Master Plan	6/2/10	11/3/11												
Penguinarium Filtration	11/1/10	2/29/12												
Condors of the Columbia	7/25/12	3/4/14												
Elephant Lands	11/7/11	12/7/15												
Percent for Art	10/1/09	6/25/20												
VMC Commissioned Art	10/1/09	1/24/12												
Art Conservation/Remove-Relocate Art	5/16/12	6/30/18												
Major Art Commission #1 (Elephant Lands)	5/13/13	9/30/15												
Major Art Commission #2 (Education Center)	4/1/14	11/30/16												
Major Art Commission #3 (Polar Passage)	3/1/16	6/25/20												
Interpretive Experience	3/19/12	4/26/19												
Interpretive Roadmap	3/19/12	9/30/12												
Condors of the Columbia Interpretives	6/14/12	3/7/14												
Elephant Lands Interpretives	6/25/12	11/13/15												
Wayfinding Design/Solicitation	3/17/14	12/31/15												
Wayfinding Construction/Install Pylons/4 Kiosks	1/2/16	6/28/17												
Wayfinding Install Central Plaza Kiosk; Post-construction	3/4/19	4/26/19												
Education Center	3/21/13	6/30/17												
Early Demolition	3/21/13	6/12/13												
RFP Design	1/21/14	4/18/14												
Design	4/21/14	9/11/15												
Construction	9/15/15	12/28/16												
Post Construction	12/29/16	6/30/17												
Polar Passage/Primate Forest/Rhino	2/9/16	8/13/20												
RFP Design	2/9/16	6/20/16												
Polar Passage Design	6/21/16	5/13/18												
Primate Forest/Rhino Design	11/17/16	5/13/18												
Construction	5/14/18	6/25/20												
Post Construction	6/26/20	8/13/20												
Electrical Infrastructure	9/23/14	6/15/18												