

Menominee Park Zoo Master Plan

Oshkosh, Wisconsin



December, 2014 FEH Associates, Inc. + WDM Architects





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SECTION 1

PROJECT OVERVIEW, ANALYSIS, & DESIGN



1.1 Executive Summary

Introduction

When the City of Oshkosh updated their Comprehensive Outdoor Recreation Plan in 2011, the Menominee Park was identified as the city's most visible and popular park. That resulted in the development of a comprehensive long range master plan (2012) focused on playgrounds, boat launches, sports fields and other outdoor facilities found in Menominee Park. The Menominee Park Zoo, located within the park, was not included and this comprehensive master plan report will define the next 20 years of the zoo's development.

The multi-disciplinary design team worked intensively with the Oshkosh Parks Department, Advisory Park Board, Zoo Society, and the community to develop a new master plan concurrent with innovative and visionary designs for the zoo that fit within the overall mission of the zoo. The mission statement is "to service the community through the acquisition and maintenance of a collection of living animals for the enrichment of the zoo visitor, with continual advancement of knowledge and appreciation of animals, both wild and domestic and their environments."

The planning process included a review of the existing zoo and surrounding park through an onsite inspection and meetings with the city's parks department. Physical attributes of the zoo grounds and operations were analyzed and evaluated to identify all impacts on future planning and development efforts. Needs were identified through a series of meetings with the Zoological Society, Advisory Parks Board, Zoo staff, Parks Department, Advisory Task Force, and the community. A comprehensive list of ideas and concerns was developed and documented as 14 project Goals for Success. These project Goals for Success guided the project team when developing a list of space and facility needs. A two day public design workshop or "charrette" occurred in October 2014 and resulted in twelve potential master plan concepts. Through an analytical process of elimination and selection three concepts rose to the top and responded positively to the project Goals for Success. The three top concepts were merged into one to create a concept with a consensus of support from all participants. The preferred concept was developed and presented at an Advisory Park Board meeting in October 2014 and an updated version was presented in December 2014.

A final master plan, phasing plan, and associated construction cost is the framework upon which circulation, structures, and exhibit placement is made. It will guide future development and management efforts for the zoo. Future development will be driven by need and funding and reviewed by city and applicable boards prior to implementation.



Background

The Menominee Park Zoo, one of the best free zoo's in Wisconsin, resides on 3.8 acres of land within the Menominee Park in 1945. The Zoo entertains and educates over 100,000 visitors annually and operates on a seasonal basis. The zoo is land-locked within the current park due to heavy usage of Menominee Park for; hiking, children's playground, boating, beach, and sports facilities. The animal exhibit area is further defined by a 2.4 acre pond in the center of the property. Game birds, river otters and wolves belong to the zoo and other domestic animals and exotic animals are leased during the summer months (May through September). Because of the location and great habitat many native animals just show up and visit from time to time including: muskrats, squirrels, chipmunks, birds, water fowl and turkeys.

The City of Oshkosh is located in a unique geographical and ecological area which was impacted by glaciers. The receding glaciers left rock hills, broad sandy valleys and numerous lakes and streams and the terrain supported hardwood forests, prairies and an abundance of wetlands. These ecological factors provided an optimal habitat for a wide variety of animal species including; bear, elk, bison, red fox, mink, otter, big cats, river otters, coyote, wolves, skunk, raccoon, badger, prairie dogs and numerous game birds. The abundance of birds and animals made the region a hotspot for hunting, trapping, and trading during the mid-seventeenth century.

The story of this rich heritage will be incorporated in the new master plan for the Menominee Park Zoo.





1.2 Acknowledgments

The following persons provided critical input, support, and critical thinking in the development of this master plan document. The City of Oshkosh and FEH/WDM Architects wish to thank the following people for their time and participation in developing this plan.

City of Oshkosh

Ray Maurer, Parks Director

Chad Dallman, Parks Operations Manager

City of Oshkosh Advisory Park Board

Sean Fitzgerald Victor Girens

William Gogolewski James Michelson

Bill Miller Carrie Rule

Megan Scheussler Jonathan Wilson Terry Wohler

City of Oshkosh Staff

Menominee Park Zoological Society

Memuna Khan, President Joe Bongers, Treasurer Erin Gordon, Secretary

Jason Trembly
Steve Cummings
Judi Payton
David Gundlach
Jerry Lang

Teresa Enking Novals

Zoo Advisory Members

And the many residents throughout the city who shared their opinions at our design workshop!

Anjelica Kikendall Kaylee Wright Ceci Gabavics Ciesa Crann Lisa Ruetten Scott Rammer Terry Steel

Tom OfferWodstort Rachel Brookins Melissa Kohn Kim Biedermann Jullie Sonnenschein

Ronda Velie Laura Dowdy chanda Henderson Jim McCullian



1.3 Needs Assessment

The primary objective of the 20 year comprehensive master plan is to create a plan for the future that allows for the implementation of; expanding the quantity and quality of animal exhibits, creating education space and programs, promoting conservation, and making the zoo a destination for the City of Oshkosh within the existing zoo footprint within Menominee Park. Careful and thoughtful long-range planning within the master plan framework will lessen the impact on the zoo's small site, and prevent costly exhibit or amenity alterations that would prevent future improvements.

Animal Welfare

Every animal at the zoo should be able to go outdoors, breathe fresh air and experience wind, rain, and sunshine. Every animal should be able to make choices about how to spend the day and they should be able to live alone or in family or social groups appropriate to its species and sex, by choice, as it would in the wild habitat.

Education

The zoo shares animal knowledge and conservation ethics with more than 100,000 visitors each year, many of whom are children. Managing so many programs-and the equipment, animals, and vehicles that support them- is challenging. There is a strong need for space that will outfit students for their zoo adventures, serve as a clearinghouse for conservation education programs around the region and provide the curious zoo visitors with a deeper understanding of the animals entrusted to its care. The education space will function as a base camp where students and adults alike can focus and begin their zoo learning experience.

Education space will be integrated into the zoo experience in many different ways. In some cases, the space may be a discrete area adjoining an animal habitat, while in others it may be a graphic panel tucked away along a visitor path. These varied space and locations will provide ultimate flexibility for sharing the excitement and knowledge that will inspire people to make a better future for wildlife.

Innovative exhibits and interpretation around the zoo will enhance the visitor's experience of the wonder of nature and engagement with the zoo's remarkable animals. These opportunities will take various forms and be delivered in different media, from tactile and physical participation to tantalizing visuals and compelling text. A good example would be bears fishing and eating in a real stream. These dynamic combinations enrich visitor's experiences and offer an effective complement to live animal and habitat exhibits.



Conservation

The zoo is committed to conserving the regions wildlife and environments. The zoo will be directly involved in conservation efforts through breeding and educating the public about the need for preserving habitat for such animals.

Sustainability

The zoo's primary mission is inspiring the community to create a better future for wildlife. What better way to do so than be located within a natural park setting on Lake Winnebago in downtown Oshkosh and modeling sustainable ways of reusing water, managing waste and conserving energy. Using resources wisely will reduce impacts on wildlife and habitat around the world. Improving the quality of water in the pond is a good example of how the zoo can employ sustainable principals on the zoo grounds.

Destination

The zoo is part of the city's long range plan to make the City of Oshkosh a destination and event city. The zoo will incorporate numerous opportunities for interaction with the animals and interpretive and hands-on opportunities for visitors. The bear exhibit could feature a pond where the animals will catch and feed on fish much like they do in the wild and the aviary exhibit and the eagle exhibit could provide visitors an opportunity to get up close to the animals with a climbing tower. The prairie dog exhibit could incorporate underground tunnels that people can crawl through and see these unique animals in their environment. These unique experiences would help make the zoo a must see when visiting the City of Oshkosh.

Assessment of Existing Exhibits

The design team also conducted an assessment of existing exhibits for safety and USDA compliance. Overall, the zoo has an adequate perimeter fence and most of the exhibits comply with guidelines or industry standards for animal welfare.

Standards

The primary facility requirements are the USDA guidelines. These guidelines establish minimum standards that need to be achieved for both animal welfare and the safety of guests and keepers. The regular inspections by their inspectors provide ongoing guidance relating to issues under the USDA prevue. These guidelines however are not the end goal. In most cases there are other recommendations and ideals that should be sought out. The USDA requirements are important and are not to be overlooked, but in most cases they can and should be surpassed. Other resources that can be consulted in every phase of development could include: AZA publications (Association of Zoos and Aquariums) and peer institutions. It is important to realize there is no single comprehensive source and that recommendations are continuing to evolve.



Animal Welfare

The goal of animal welfare in a zoological setting should be to create environments for animal residents to thrive. All spaces are important elements of the habitat and deserve design attention to create an atmosphere that not only accommodates, but encourages and provides opportunities and reasons for every variety of natural behavior.

Following is a broad brush overview of possibilities to be considered.

Choices for comfort:

- Variety of substrates: turf, sand, mulch, rocks, nesting material
- Appropriate types of habitats: arboreal, terrestrial, aquatic
- Adequate size for: exploration and variety
- Climate gradients: sun/shade, breeze/calm, warm/cool
- Refuges: places to withdraw and feel safe

Foods challenges:

- Food presentation: search/work to find, puzzle feeders, scatter feeders, places to hide/bury
- Novel food items

Sensory stimulation:

- Scent: rotatable habitats to leave scents of other animals
- Sight: position habitats with views of other animals, consider predator/prey relationships
- Sound: position habitats within range of the sounds of other animals
- Tactile: objects and materials for: scratching, grooming, playing

Social interactions:

- Size habitats for species appropriate social groups
- Create opportunities to share space with other animals or to be alone
- Places to be close to guests and to retreat
- Consider mixed species groups
- Keeper interactions

As part of its mission the zoo desires to instill respect for animals and inspire guests to take action to conserve animals and the environments they inhabit. To this end the perception of the guest is extremely vital. Creating habitats and viewing experiences that produce the very real impression of interesting and complex habitats as part of the highest quality animal in care is of the utmost importance.

Containment

Appropriate barriers need to be maintained for the safety of guests, animals, and keepers. All animal yards must have containment that prevents the escape of the animals. There must also be barriers that prevent guests from coming too close to any animals such that either guest or animal are in danger. All caging, shifts, yard access, etc. must be very carefully considered to assure safety behind the scenes. Keepers must work in very close proximity to animals and every precaution possible should be built in to facilitate all appropriate keeper – animal interaction in the safest way possible.

1.4 Process and Design Workshop

Process

The design team developed a thorough understanding of community wants and wishes for the zoo through a series of public meetings and meetings with city representatives and zoo staff. In addition, an Advisory Task Force made up of interested citizens and partner organizations was created to share ideas, analyze solutions, and make a master plan recommendation to the Advisory Park Board. These public discussions led to the creation of the following list of project Goals for Success and space needs. The goals were used to evaluate ideas and concepts developed at the design workshop.

Goals for Success Menominee Park Zoo

- 1. Be a resource for community programs
- 2. Promote education and conservation programming
- 3. Accessible for all
- 4. Low maintenance facility
- 5. Animal habitats that promote health and wellbeing
- 6. Support the Oshkosh Event City Initiative
- 7. Educate attendees on principles of environmental stewardship
- 8. Educate attendees on native and agrarian species of Wisconsin
- 9. Improve the existing infrastructure
- 10. Expand partnerships with like-minded institutions
- 11. Enhance quality of life
- 12. Promote economic development in the City
- 13. Create an experience that visitors will want to return for
- 14. Sustainable for at least another 50 years

Zoo space needs are grouped into three categories; public space, staff space, and animal space. Each item listed in the space needs chart are based on creating opportunities that best accomplish the project Goals for Success and utilize best practices for public zoos.

Space Description	Square Feet
1. Education Building	
a. Environmental classrooms (30 persons) 2@1200	2,400
b. Classroom storage	500
c. Welcome space/multifunction space (300 persons)	2,100
d. Prep kitchen and storage	500
e. Staff workroom	500
f. Keepers lab	300
g. Public restrooms, family restroom	500



Space Description	Square Feet
h. Mechanical space	500
Subtotal	9,700
Unassigned space (20%)	1,940
Total space	11,640
2. Retail and Guest amenities	
a. information kiosk	50
b. gift shop	900
c. product storage and staff office	250
d. first-aid station/sanitation station (2 required)	200
e. stroller and wheelchair storage	300
subtotal	1,700
3. Outdoor event space	
a. outdoor gathering space (300 persons)	3,000
b. storage for tables, chairs, umbrellas, equipment	500
c. tornado shelter	700
4. Food service	
a. serving window-exterior	120
b. interior dining (20 persons)	250
c. vending machines	120
d. vestibule/air locks	200
e. kitchen	300
f. kitchen cooler/freezer	300
g. serving counter	150
h. janitorial	100
i. chair, table, equipment storage	200
subtotal	1,740
unassigned space (20%)	348
total	2,088
5. Animal Exhibits (proposed)	
a. Black bear exhibit with off-exhibit space	6,000
b. Aviary for eagle, raptors, turkeys with off-exhibit space	3,000
c. Red fox exhibit	400
d. Raccoon exhibit	400
e. Badger exhibit	400
f. Mink exhibit	400
g. Farm animal building and exhibit (year round use)	3,500



Space Description	Square Feet
h. Jack rabbits exhibit	300
i. groundhog exhibit	300
j. prairie hens and quail exhibit	300
k. Fish species tank	200
6. Operation and staff space	
a. Off exhibit space	200
b. Security office	150
c. Quarantine/vet room	250
d. Food prep area	150
e. Food storage with cooler	200
f. Walk-in freezer and walk-in cooler	200
g. Office for staff	150
h. Staff toilet	75
i. Outside storage yard	2,500
j. Heated garage for (1) truck and (2) carts	600
k. Fueling room	450
subtotal	4,925
Unassigned space (20%)	985
Total	5,910

The intensive two-day design workshop or "charrette" explored twelve big picture thematic ideas that could organize the entire zoo grounds. They ranged from; Option A, all native species, Option B big agriculture, Option C big bear, Option D big aquarium, Option E main street, Option F big wetlands, Option G big cat/big bear, Option H big prairie. These broadbrush brainstorming ideas were critiqued several times and pros and cons were recorded for each option. At the end of the first day, the best ideas were harvested.

Day two of the design workshop started by narrowing the number of concepts down to the best three concepts. Based on the project Goals for Success they were; Option D1 big aquarium, Option F1 big wetlands, and Option G1 big cat/big bear. These three concepts were critiqued at mid-day and two strong concepts were carried forward. Option D2. Big aquarium, and Option F/G2 wetland big cat big bear. Both options were scrutinized against a list of criteria that were formulated from the project goals for success and phasing diagrams and cost estimates were developed. The evening presentation of the two concepts to the Advisory Committee and interested public resulted in the recommendation of concept F/G2 wetland big cat big bear along with a medium sized aquarium.



1.5 Master Plan Concept

A Journey of Discovery

At Menominee Park Zoo, guests will step away from their day-to-day environment and into the surrounding natural world to discover and explore Wisconsin's diverse fauna and ecosystems.

Your journey to Menominee Park Zoo begins as soon as you approach the new Welcome Center, which is both a gateway and basecamp for exploration. Upon entering the building, one is immediately struck by the activity of the space, setting the stage to explore, discover and learn.

Guest services, which include concessions, gifts, restrooms and other necessities, are easily identifiable and conveniently just feet away.

The sound of children's voices carry excitement down the hall as the program "Bats, Birds & Butterflies" is about to begin. The children are learning about the different types of flying animals and their importance to the native ecosystems. They will be doing hands-on activities such as building a birdfeeder and planting bushes to attract and provide habitats for endangered butterflies, such as the Swamp Metalmark or the Karner Blue.

A large aquarium draws guests through the entry hall. The freshwater habitat is a swirling kaleidoscope of colors, revealing the rich diversity of underwater life found in regional lakes. Guests are captivated by the contrasting beauty of the fish species and find themselves spending more than a few moments here.

The Welcome Center Calendar is chock full of events. The Fishing Club will meet Monday evening, the Retirees breakfast on Tuesday morning, a special Cub Scout event on Thursday evening, and a New Volunteer Orientation session Saturday morning.

The bold colors of a poster catch your eye. "Centipedes, Millipedes, and the Need for Speed!", an upcoming temporary exhibit in the gallery space. "Oh, cool!"

You exit the Welcome Center and stand on a wood deck jutting out over the pond. You stand for a moment and gaze at the views to various habitats and activities on the surrounding shores. A small plaza to the right is being set up for the summer "Zoo-Tunes" concert series. Tonight, a folk band that features the national blue grass picking champion from 2012 will perform.

The new Welcome Center truly defines the Menominee Park Zoo as an activity hub that has something for everyone in the community. You are excited to see where this journey of discovery takes you as you proceed further into the park.



The Horicon Marsh

From the edge of the Plaza, you move towards re-created wetlands that flow out into the pond and stretches up into the woods. This area of the zoo represents the Horicon Marsh and animals that live there. Interpretive signage explains the vital function of wetlands and the role they play in the cycle of water and the ecosystem. A small series of islands in the pond seem to have flowed from the mouth of the waterway and are now inhabited by ornate box turtles and visiting ducks. From a small bridge that goes over the marsh guests receive a wonderful view of the pond edge where sand hill cranes have found the perfect bog site for nesting. Proceeding upstream, a series of habitats are home to river otters, beavers and mink. These residents are found in different habitats on different days; it keeps them curious and active, which in turn, keeps guests curious too!

The North Highlands Forest

As the stream leads you along, the flora changes. You are now in the wooded North Highlands Forest, thick with brush and tall trees. Settled in for a nap, a Bobcat lies dangling his limbs over a low-hanging branch. He yawns. He could not be cozier in his habitat. His mate is a few feet higher in the tree and appears to be focused on the mink in the habitat across the path.

A chance to sit down and relax is found at a small lean-to building once built by trappers in area, and the view from here could not be better. Floor-to-roof glass opens views over a small pond in the woods where two young sibling black bears, which were recently rescued, are splashing about as they frantically search for fish the keeper just released. It's enrichment for the bears and entertainment for the guest. Everybody is happy! The path continues along the lush bear habitat with tall fallen trees, boulders and foraging areas under a shady canopy. Across from the bear yard a treehouse reaches up and leans over the path. From the top level of this eclectically stylized backwoods fort, young adventurers find themselves eye-level with the majesty of an eagle perched in an adjacent tree. Looking out the window on the other side, a flurry of activity stirs in the aviary, alive with countless robins, warblers and woodpeckers among others, in what appears to be a contest of sorts combing the unique unmatched talents of singing and air show stunts. Looking out to the south is the biggest surprise of all when one of the black bears charges up a tree to an apex just a little higher than the fort and only about 30 feet away. You find it hard not to feel kinship with all the creatures of the forest as you share in their space, their play, and the wonder of the natural world.

At the far end of the bear yard a quaint cabin welcomes you. You read that in the winter bears can be seen hibernating through a small window into their den. On the other side of the cabin you once again feel a special connection as you witness a family of elk, the mother gently taking care of her young, and the stateliness of the father as he watches with a protective glare, all against the backdrop of a spacious and shaded habitat. Looking back as you move on, you are pleasantly surprised to find two more eagles on this side of the yard that you could not originally see. As you take a moment to read the sign, you realize that these eagles were injured, rescued and rehabilitated; they cannot be re-released.



Across the high overlook that connects the elk habitat to the wolf habitat you approach with anticipation. You first spot a pair of wolves moving along the perimeter through the brush patrolling their territory as they look for food and watch for predators. Continuing on, you have another opportunity to enter the treehouse from the other side. You soon stumble upon a family of raccoons making the most of this beautiful Wisconsin morning foraging for food that was hidden in bush and buried in a sandpit by their caring keepers earlier today. A skunk in the adjacent habit has found a pleasant resting space burrowed half under a log. You are almost sure that last time you visited the skunk and raccoons were in opposite yards.

Continuing around the wolf yard these legendary canines are found not only patrolling the perimeter, but stopping to quench the thirst they have built up at the water's edge; then finding a shady den for a mid-morning nap. You think there must be four or five wolves in all, but you are not really sure. You cannot see all of them at once.

As the view out of the forest opens back up, you are once again greeted by the beautiful Sandhill Cranes. You stop to read a little about conservation efforts that are helping to increase the population of these endangered birds and how the zoo is helping. You think, "I should get involved."

Continuing around the pond is a refreshing walk in the warm sun. You soon recognize another zoo guest, a Blue Heron, has just swooped down and is wading in the shallow along the edge. It is a satisfying combination to see invited wildlife living in concert with the residents of Menominee Park Zoo.

Glacial Plains

A little further down the path is the entry to the "Glacial Plains Conservation Center." Inside guests find conditioned comfort where several small habitats showcase the wide range of animal life found in Wisconsin. Fishing spiders with their 3-inch leg spans explore their habitat, which built as the underside of a boat dock. The Northern Cricket Frog and the Slender Glass Lizard serve as ambassadors for the many animals that have declining populations in Wisconsin. Two endangered species; the Giant Carrion Beetle and the Northern Long Eared Bat have a prominent place where graphics explain how the zoo is helping to support breeding and conservation programs for these animals. A window into the keeper service area gives guests a peek into diet preparation for all of the zoos resident population. A large viewing window now ahead looks onto a rocky outcropping where coming over the ridge you see the deliberate, confident saunter of a cougar, his eyes peering through you as he is heading your way. Around the other side of the ridge you find his sister who is basking in the sun from her position of prominence where she can view her surroundings while expending energy with only the elegant sway of her over-sized soft-brown tail.



About that time you hear a curious high pitched bark coming from behind you, spinning around you see a large mound inhabited by a colony of prairie dogs. Tunnels allow explorers of all ages to imagine themselves inside the prairie dog's complex underground burrow system, occasionally popping up through the surface of the grasslands to find themselves surrounded by these highly social rodents.

Just across the way you discover three more species native to the grassy plains. Badger, red fox and porcupine all seem to be enjoying the beautiful weather as much as you are. Like many animals at the zoo, these three species share rotating habitats with each other. This keeps them more active and interested in their surroundings as they are not in the same environment every day, investigating the scents left by their neighbors the day before and the mischief they may have caused.

The Glacial Plains are Wisconsin's most fertile farming area. Just ahead is a barn housing a variety of animals found on many farms in the state. Guests are enjoying feeding and petting goats as well as some of the other small animals. Kids are working off some energy by filling the water trough for the ponies with an 'old-fashioned' water pump. At the far end of the barn you are introduced to some of the "farmer's friends;" a Barn Owl as well as well as two snakes, a Blue-Racer and Eastern Milk snake. All of these help out farmers by hunting disease carrying rodents.

A final walk back through the Welcome Center and everyone takes one more look at the aquarium. The family stops at the restroom and the gift shop. As you sit and relax you make a few mental notes:

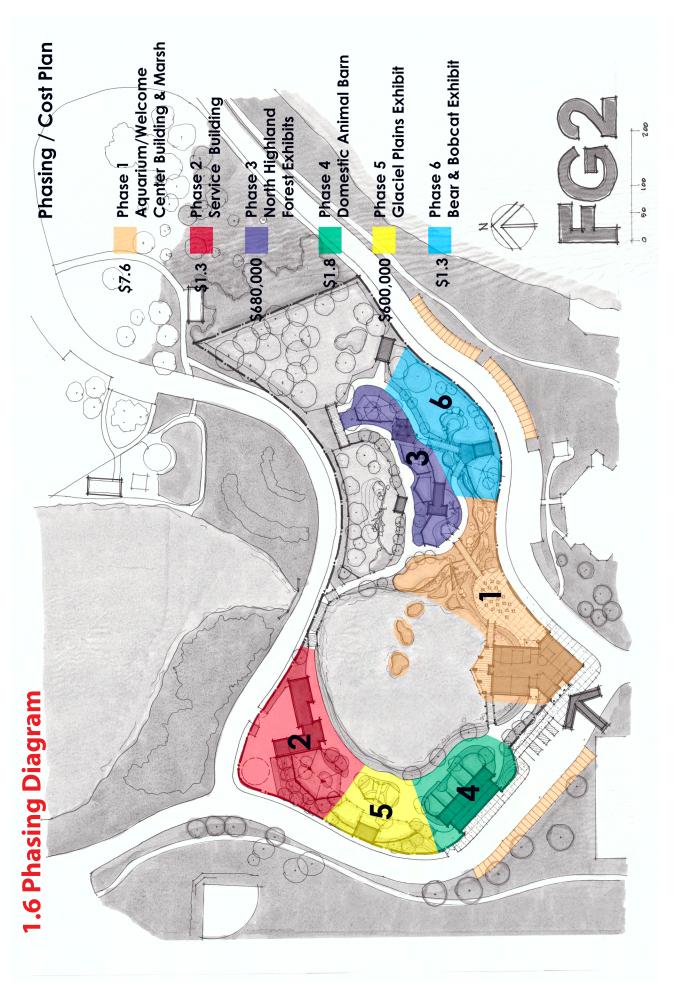
- 1) Talk to your business partners about having the company picnic at the zoo this summer
- 2) Sign the kids up for the upcoming class on reptiles
- 3) Don't miss the centipede exhibit starting next month
- 4) Come back in mid-winter to see the black bears hibernating
- 5) Look into a family day-trip to a park in the Highlands Forest or the Horicon Marsh













I.7 Cost Estimates

See the following pages for cost estimates by phase.





 Owner: City of Oshkosh
 Project No.: 2014319
 Date :
 12.2.2014

 Project : Menominee Park Zoo Long Range Plan
 Phase: Master Planning
 Estimator :
 KE

	Phase 1				
	DESCRIPTION	QTY	UNIT	COST/SF	TOTALS
Building and	Exhibit Construction Costs:				
New con	struction				
1	Education and Aquarium Center	16,000	SF	200.00	3,200,000
Deconst	ruction				
2	Entry building, rest rooms, concessions	3,000	SF	8.00	24,000
Storm Sh					
3	Enhancement	900	SF	100.00	90,000
4 Exhibits	& Enclosure Water Bird Exhibit	1,800	SF	85.00	153,000
5	Interpretive elements	2	EA	9,000.00	18,000
6	Lake Aquarium & Life support - 20,000 Gallons	1	LS	650,000.00	650,000
7	Marsh Aquarium & Life support - 4,000 Gallons	1	LS	350,000.00	350,000
		21,704			
	n : (n)		SubTotal		4,485,000
	Design / Bi			-	672,750
	Building Construction				5,157,750
	Constructio				257,888
Site Week Co	BUILDING CONST	RUCII	ON CO	SI IOIAL	\$5,415,638
	nstruction Costs	 			
	emoval and fencing relocation	1	LS	40000	40,000
	king Spaces rance Plaza and gateway	72 4,000	EA SF	3,000.00 25.00	216,000 100,000
	wer modifications	300	LF	100	30,000
	Water & Sanitary Sewer	1	LS	60,000	60,000
25 Electrical		1	LS	60,000	60,000
26 fill materi	al for wetlands - dredging	4,000	CY	30	120,000
27 Earthwor	k	1,800	CY	30	54,000
28 Retaining	Walls	600	LF	40	24,000
29 Pedestriai	n Paving	2,500	SF	7.00	17,500
	Landscaping	1	LS	20,000	20,000
	al & Informational Signage	1	LS	10,000	10,000
	nal and Interpretive Signage	1,920	LS SF	6,000 40.00	6,000 76,800
34 Dock wal	path & bridge	2,000	SF	40.00	80,000
35 Turtle Isl		3	SF	21,000	63,000
			SubTotal	للبيط	977,300
	Design / Bi	d Conting	146,595		
	Site Work Construction				1,123,895
	Construction	n Conting	gency 5%		56,195
	SITE WORK CONST	RUCTI	on co	ST TOTAL	\$1,180,090
Soft Costs					
40 Geotechr	nical Subsurface investigation	1	LS		8,000
41 Legal Fee	S	1	LS		4,000
	ural & Engineering Design Fees	1	LS		659,573
	nental Designer	1	LS		40,000
	oort Design	1	LS		50,000
	g Design Fees	1	LS		30,000
	rmal Horizontal Test Well ey (utilize existing facility documents)	1	LS LS		9,000 7,500
	Costs for Construction Documents	1	LS		7,500
	tion Permits & Fees	1	LS		3,500
	Risk Insurance	1	LS		2,000
	ontrol Material Testing & Inspections	1	LS		20,000
52 Hazardou	s Material sampling	1	LS		5,000
	Furnishings & Equipment Allowance	1	LS		100,000
	gy & Computer Equipment Allowance	1	LS		50,000
55 State revi56 Fundraisi	ewsng Consultanting	1	LS LS		2,000 70,000
		1	SubTotal		1,068,073
	Site Work Cons				1,180,090
	Site work Cons Building Cons				5,415,638
	Dunding Cons				
		PROJ.	ECT IC	TAL COST	\$7,663,800



Owner: City of Oshkosh Project: Menominee Park Zoo Long Range Plan Project No.: 2014319 Phase: Master Planning

Date: 12.2.2014 Estimator: KE

	Phase 2				
	DESCRIPTION	QTY	UNIT	COST/SF	TOTALS
Buil	ilding and Exhibit Construction Costs:				
	New construction				
1	Staff Service Building Expansion	2,250	SF	125.00	281,250
2	Small Animal support structure	250	SF	125.00	31,250
	Remodeling				
3		700	SF	65.00	45,500
	Exhibits & Enclosure				
4	Big Cat Exhibit	5,000	SF	85.00	425,000
5	Interpretive elements	1 1 200	EA SF	9,000.00 200.00	9,000 360,000
6	Small and Nocturnal exhibits/big cat holding	1,800 10,001	эг	200.00	360,000
			SubTotal		1,152,000
	E	Design / Bid Conting	ency 15%	_	172,800
	Building Co	onstruction Costs	SubTotal		1,324,800
		Construction Conting	gency 5%		66,240
	BUILDING	G CONSTRUCT	ON CO	ST TOTAL	\$1,391,040
Site '	Work Construction Costs				
20	Parking removal and fencing relocation	1	LS	12000	12,000
23		8,000	SF	5.00	40,000
24		60	LF	100	6,000
25	Domestic Water & Sanitary Sewer	1	LS	6,900	6,900
26	Electrical	1	LS	5,000	5,000
29	Earthwork	200	CY	30	6,000
30		100	LF	40	4,000
31		2,000	SF	7.00	14,000
32		1	LS	14,000	14,000
34		1	LS	5,000	5,000
35		1	LS LS	3,500 6500.00	3,500 6,500
36	Monument Relocation	1		000.00	
	P	Ossian / Rid Continu	SubTotal		122,900 18,435
		Design / Bid Conting onstruction Costs		_	141,335
				_	
		Construction Conting			7,067
	SITE WORK	K CONSTRUCTI	ON CO	ST TOTAL	\$148,402
	0.0				
Sof	ft Costs				
40		1	LS		5,000
41	Legal Fees	1	LS		2,000
42		1	LS		153,944
43		1	LS		3,500
44	11 0	1	LS		3,500
	7. 7	1	LS LS		2,500 2,500
47	Printing Costs for Construction Documents		L		1,000
48			1.5		
48 49	Construction Permits & Fees	1	LS LS		
48	Construction Permits & Fees Builders Risk Insurance		LS LS LS		1,000
48 49 50	Construction Permits & Fees Builders Risk Insurance Quality Control Material Testing & Inspections	1	LS		1,000 6,500
48 49 50 51	Construction Permits & Fees Builders Risk Insurance Quality Control Material Testing & Inspections Hazardous Material sampling	1 1 1	LS LS		1,000 6,500 2,500
48 49 50 51 52	Construction Permits & Fees Builders Risk Insurance Quality Control Material Testing & Inspections Hazardous Material sampling Fixtures, Furnishings & Equipment Allowance	1 1 1 1	LS LS LS		1,000 6,500 2,500 40,000
48 49 50 51 52 53 54	Construction Permits & Fees Builders Risk Insurance Quality Control Material Testing & Inspections Hazardous Material sampling Fixtures, Furnishings & Equipment Allowance Technology & Computer Equipment Allowance State reviews	1 1 1 1 1 1 1	LS LS LS LS LS LS LS		1,000 6,500 2,500 40,000 10,000
48 49 50 51 52 53 54	Construction Permits & Fees Builders Risk Insurance Quality Control Material Testing & Inspections Hazardous Material sampling Fixtures, Furnishings & Equipment Allowance Technology & Computer Equipment Allowance State reviews	1 1 1 1 1 1 1 1	LS LS LS LS LS LS LS LS LS		1,000 6,500 2,500 40,000 10,000 1,000 20,000
48 49 50 51 52 53 54	Construction Permits & Fees Builders Risk Insurance Quality Control Material Testing & Inspections Hazardous Material sampling Fixtures, Furnishings & Equipment Allowance Technology & Computer Equipment Allowance State reviews Fundraising Consultanting	1 1 1 1 1 1 1 1 1 1 1 Soft Cost	LS LS LS LS LS LS SubTotal		1,000 6,500 2,500 40,000 10,000 20,000 254,944
48 49 50 51 52 53 54	Construction Permits & Fees Builders Risk Insurance Quality Control Material Testing & Inspections Hazardous Material sampling Fixtures, Furnishings & Equipment Allowance Technology & Computer Equipment Allowance State reviews Fundraising Consultanting Site W	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LS LS LS LS LS LS LS SubTotal		1,000 6,500 2,500 40,000 10,000 20,000 254,944 148,402
48 49 50 51 52 53 54	Construction Permits & Fees Builders Risk Insurance Quality Control Material Testing & Inspections Hazardous Material sampling Fixtures, Furnishings & Equipment Allowance Technology & Computer Equipment Allowance State reviews Fundraising Consultanting Site W	1 1 1 1 1 1 1 1 1 1 1 Soft Cost	LS LS LS LS LS LS LS SubTotal		1,000 6,500 2,500 40,000 10,000 20,000 254,944 148,402 1,391,040



Owner: City of Oshkosh Project No.: 2014319 Date: 12.2.2014 KE

Project: Menominee Park Zoo Long Range Plan Phase: Master Planning Estimator:

	<u>Phase 3</u>				
	DESCRIPTION	QTY	UNIT	COST/SF	TOTALS
Buil	ding and Exhibit Construction Costs:				
	New construction				
1	Small Animal support structure - indoor holding for animals	600	SF	125.00	75,000
	Remodeling				
2	Otter Support Structure	250	LS	65.00	16,250
-	Exhibits & Enclosure				
3	Raptor Exhibit	2,100	SF	85.00	178,500
4 5	Interpretive elements Forest Animal enclosure	7 2,400	EA SF	9,000.00 80.00	63,000 192,000
	pool and filtration system	2,400	LS	80,000.00	80,000
6	Treehouse viewing structure	1	LS	15,000.00	15,000
<u> </u>	U .	5,359			
1			SubTotal		619,750
	Design / Bi				92,963
l	Building Construction			_	712,713
	Construction	on Conting	gency 5%	-	35,636
	BUILDING CONST	RUCTI	ON CO	ST TOTAL	\$748,348
Site '	Work Construction Costs				
20	Domestic Water & Sanitary Sewer	1	LS	5,000	5,000
21	Electrical	1	LS	2,000	2,000
22	Earthwork	200	CY	30	6,000
23	Retaining Walls	100	LF	40	4,000
24	Pedestrian Paving	2,000	SF	7.00	14,000
25	Lawns & Landscaping	1	LS	6,500	6,500
26	Shade structure	3	LS LS	6,000	18,000
27 28	Directional & Informational Signage Educational and Interpretive Signage	1	LS	5,000 5,000	5,000 5,000
20	Educational and interpretive organize	1	SubTotal	3,000	
l	Design / Bi				65,500
$\overline{}$		d Contino	ency 15%		9.825
1				=	
	Site Work Construction	n Costs	SubTotal	-	9,825 75,325 3,766
	Site Work Construction Construction	on Costs	SubTotal gency 5%	er rotai	75,325 3,766
	Site Work Construction	on Costs	SubTotal gency 5%	ST TOTAL	75,325
Soft	Site Work Construction Construction SITE WORK CONST	on Costs	SubTotal gency 5%	ST TOTAL	75,325 3,766
	Site Work Constructio Constructio SITE WORK CONST	on Costs on Conting	SubTotal gency 5%	ST TOTAL	75,325 3,766 \$79,091
40	Site Work Construction Construction SITE WORK CONSTI	on Costs on Conting TRUCTI	SubTotal gency 5% ON CO	ST TOTAL	75,325 3,766 \$79,091
40	Site Work Construction Construction SITE WORK CONSTI	n Costs on Conting 'RUCT' 1 1	SubTotal gency 5% GON CO	ST TOTAL	75,325 3,766 \$79,091 0 10,000
40 41 42	Site Work Construction Construction SITE WORK CONSTITUTE Construction t Costs Land Acquisition Legal Fees Architectural & Engineering Design Fees	n Costs on Conting TRUCTI	SubTotal gency 5% ON CO LS LS LS	ST TOTAL	75,325 3,766 \$79,091 0 10,000 82,744
40 41 42 43	Site Work Construction Construction SITE WORK CONSTITUTE Construction SITE WORK CONSTITUTE Legal Fees Architectural & Engineering Design Fees Environmental Designer	n Costs on Conting 'RUCT' 1 1	SubTotal gency 5% ON CO LS LS LS LS	ST TOTAL	75,325 3,766 \$79,091 0 10,000 82,744 3,500
40 41 42	Site Work Construction Construction SITE WORK CONSTITUTE Construction t Costs Land Acquisition Legal Fees Architectural & Engineering Design Fees	n Costs on Continue TRUCTI	SubTotal gency 5% ON CO LS LS LS	ST TOTAL	75,325 3,766 \$79,091 0 10,000 82,744 3,500
40 41 42 43 44	Site Work Construction Construction SITE WORK CONSTITE **COSTS** **Land Acquisition Legal Fees Architectural & Engineering Design Fees Environmental Designer Life Support Design	PRUCTI 1 1 1 1 1 1	SubTotal gency 5% ON CO LS LS LS LS LS LS	ST TOTAL	75,325 3,766 \$79,091 0 10,000 82,744 3,500 0 1,200
40 41 42 43 44 45	Site Work Construction Construction SITE WORK CONSTITE **COSTS** **Land Acquisition Legal Fees Architectural & Engineering Design Fees Environmental Designer Life Support Design Site Survey (utilize existing facility documents)	n Costs on Conting TRUCTI	SubTotal gency 5% ON CO LS LS LS LS LS LS LS	ST TOTAL	75,325 3,766 \$79,091 0 10,000 82,744 3,500 0 1,200
40 41 42 43 44 45 46	Site Work Construction Construction SITE WORK CONSTITE COSTS COSTS Land Acquisition Legal Fees Architectural & Engineering Design Fees Environmental Designer Life Support Design Site Survey (utilize existing facility documents) Printing Costs for Construction Documents Construction Permits & Fees Builders Risk Insurance	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SubTotal gency 5% SubT	ST TOTAL	75,325 3,766 \$79,091 0 10,000 82,744 3,500 0 1,200 1,000 500 750
40 41 42 43 44 45 46 47 48	Site Work Construction Construction SITE WORK CONSTITE COSTS Land Acquisition Legal Fees Architectural & Engineering Design Fees Environmental Designer Life Support Design Site Survey (utilize existing facility documents) Printing Costs for Construction Documents Construction Permits & Fees Builders Risk Insurance Quality Control Material Testing & Inspections	1	SubTotal	ST TOTAL	75,325 3,766 \$79,091 0 10,000 82,744 3,500 0 1,200 1,000 500 750 3,000
40 41 42 43 44 45 46 47 48 49	Site Work Construction Construction SITE WORK CONSTITE COSTS Land Acquisition Legal Fees Architectural & Engineering Design Fees Environmental Designer Life Support Design Site Survey (utilize existing facility documents) Printing Costs for Construction Documents Construction Permits & Fees Builders Risk Insurance Quality Control Material Testing & Inspections Hazardous Material sampling	1	SubTotal	ST TOTAL	75,325 3,766 \$79,091 0 10,000 82,744 3,500 0 1,200 1,000 500 750 3,000
40 41 42 43 44 45 46 47 48 49 50	Site Work Construction Construction SITE WORK CONSTITE COSTS Land Acquisition Legal Fees Architectural & Engineering Design Fees Environmental Designer Life Support Design Site Survey (utilize existing facility documents) Printing Costs for Construction Documents Construction Permits & Fees Builders Risk Insurance Quality Control Material Testing & Inspections Hazardous Material sampling Fixtures, Furnishings & Equipment Allowance	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I.S	ST TOTAL	75,325 3,766 \$79,091 0 10,000 82,744 3,500 0 1,200 1,000 500 750 3,000 0 5,000
40 41 42 43 44 45 46 47 48 49 50 51	Site Work Construction Construction SITE WORK CONSTITE Land Acquisition Legal Fees Architectural & Engineering Design Fees Environmental Designer Life Support Design Site Survey (utilize existing facility documents) Printing Costs for Construction Documents Construction Permits & Fees Builders Risk Insurance Quality Control Material Testing & Inspections Hazardous Material sampling Fixtures, Furnishings & Equipment Allowance Technology & Computer Equipment Allowance	1	I.S	ST TOTAL	75,325 3,766 \$79,091 0 10,000 82,744 3,500 0 1,200 1,000 500 750 3,000 0 5,000 4,000
40 41 42 43 44 45 46 47 48 49 50	Site Work Construction Construction SITE WORK CONSTITE COSTS Land Acquisition Legal Fees Architectural & Engineering Design Fees Environmental Designer Life Support Design Site Survey (utilize existing facility documents) Printing Costs for Construction Documents Construction Permits & Fees Builders Risk Insurance Quality Control Material Testing & Inspections Hazardous Material sampling Fixtures, Furnishings & Equipment Allowance	1	I.S	ST TOTAL	75,325 3,766 \$79,091 0 10,000 82,744 3,500 0 1,200 1,000 500 7500 0 5,000 4,000 750
40 41 42 43 44 45 46 47 48 49 50 51 52	Site Work Construction Construction SITE WORK CONSTRUCTION SITE WORK CONSTRUCTION SITE WORK CONSTRUCTION Legal Fees Architectural & Engineering Design Fees Environmental Designer Life Support Design Site Survey (utilize existing facility documents) Printing Costs for Construction Documents Construction Permits & Fees Builders Risk Insurance Quality Control Material Testing & Inspections Hazardous Material sampling Fixtures, Furnishings & Equipment Allowance Technology & Computer Equipment Allowance State reviews Fundraising Consultanting	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I.S	ST TOTAL	75,325 3,766 \$79,091 0 10,000 82,744 3,500 0 1,200 1,000 5000 0 5,000 4,000 750 10,000
40 41 42 43 44 45 46 47 48 49 50 51 52	Site Work Construction Construction SITE WORK CONSTRUCTION SITE WORK CONSTRUCTION SITE WORK CONSTRUCTION Legal Fees Architectural & Engineering Design Fees Environmental Designer Life Support Design Site Survey (utilize existing facility documents) Printing Costs for Construction Documents Construction Permits & Fees Builders Risk Insurance Quality Control Material Testing & Inspections Hazardous Material sampling Fixtures, Furnishings & Equipment Allowance Technology & Computer Equipment Allowance State reviews Fundraising Consultanting	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SubTotal gency 5% ON CO I.S I.S I.S I.S I.S I.S I.S I.S I.S I.	ST TOTAL	75,325 3,766 \$79,091 0 10,000 82,744 3,500 0 1,200 1,000 750 3,000 0 4,000 750 10,000
40 41 42 43 44 45 46 47 48 49 50 51 52	Site Work Construction Construction E Costs Land Acquisition Legal Fees Architectural & Engineering Design Fees Environmental Designer Life Support Design Site Survey (utilize existing facility documents) Printing Costs for Construction Documents Construction Permits & Fees Builders Risk Insurance Quality Control Material Testing & Inspections Hazardous Material sampling Fixtures, Furnishings & Equipment Allowance Technology & Computer Equipment Allowance State reviews Fundraising Consultanting	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SubTotal gency 5% ON CO I.S I.S I.S I.S I.S I.S I.S I.S I.S I.	ST TOTAL	75,325 3,766 \$79,091 0 10,000 82,744 3,500 0 1,200 1,000 5000 0 5,000 4,000 750 10,000 1122,444



Owner: City of Oshkosh Project No.: 2014319 Date : 11.11.2014

Project : Menominee Park Zoo Long Range Plan Phase: Master Planning Estimator : KE

New construction	Phase 4				
New construction	DESCRIPTION	QTY	UNIT	COST/SF	TOTALS
Agricultural Acanal Establisto hall Agricultural Sections Agricultural S	Building and Exhibit Construction Costs:				
Decommendation	New construction				
Remove casioning agricultural transverse 1 1 1 1 1 1 1 1 1		8,500	SF	125.00	1,062,50
Part	Deconstruction				
Fame Assemal Eshabit Yards	2 Remove existing agricultural structures	1	LS	4,000.00	4,00
Interpretive elements	Exhibits & Enclosure				
					160,00
Page	4 Interpretive elements		EA	9,000.00	9,00
Page		1-,000	SubTotal	<u> </u>	1,235,50
Participation Participatio		Design / Bid Conting			185,32
BUILDING CONSTRUCTION COST TOTAL \$1,491,865	Building (Construction Costs	SubTotal	-	1,420,82
BUILDING CONSTRUCTION COST TOTAL \$1,491,865		Construction Contin	gency 5%	_	71,04
Technique Tech	RUILDIN		•		
Purking removal and fencing relocation 1 1S 5000 5,0000		d CONSTRUCT		JI TOTAL	\$1,491,000
Storm Sever modifications	Site Work Construction Costs				
25 Domestic Water & Sanitary Sewer 1 1 1 1 5 4,000 4,00 5,0	20 Parking removal and fencing relocation	1	LS	5000	5,00
Electrical		40			4,00
29 Earthwork	·				4,00
Retaining Walls					5,00
1					6,00
1 1 1 1 1 1 1 1 1 1	·				3,20
1 1.8 5.00 5.0					
SubTotal	V V				
Design / Bid Continues to 1	55 Educational and Interpretive signage	1	1	5,000	
Site Work Construction Costs Subruction Costs Subruction Contingency 5% 2,4		Daniar / Bid Continu			43,200
Soft Costs				-	
STE WORK CONSTRUCTION COST TOTAL \$52,16	Site work of			_	
Soft Costs Sof					
1	SITE WOR	K CONSTRUCT	ION CO	ST TOTAL	\$52,164
1					
1	Soft Costs				
Architectural & Engineering Design Fees	40 Geotechnical Subsurface Investigation	1	LS		5,00
1	41 Legal Fees	1	LS		2,00
44 Life Support Design 1 LS 45 Furnishing Design Fees 1 LS 46 Geo Thermal Horizontal Test Well 1 LS 47 Site Survey (utilize existing facility documents) 1 LS 1,5 48 Printing Costs for Construction Documents 1 LS 1,0 49 Construction Permits & Fees 1 LS 7 50 Builders Risk Insurance 1 LS 7 50 Builders Risk Insurance 1 LS 3,0 51 Quality Control Material Testing & Inspections 1 LS 3,0 52 Hazardous Material sampling 1 LS 3,0 52 Fixtures, Furnishings & Equipment Allowance 1 LS 15,0 54 Technology & Computer Equipment Allowance 1 LS 5 55 State reviews 1 LS 5 56 Fundraising Consultanting 1 LS 15,0 57 Fun	42 Architectural & Engineering Design Fees	1	LS		154,40
45 Furnishing Design Fees 1 LS 4 46 Geo Thermal Horizontal Test Well 1 LS 4 47 Site Survey (utilize existing facility documents) 1 LS 1,5 48 Printing Costs for Construction Documents 1 LS 1,0 49 Construction Permits & Fees 1 LS 7 50 Builders Risk Insurance 1 LS 3,0 51 Quality Control Material Testing & Inspections 1 LS 3,0 52 Hazardous Material sampling 1 LS 3,0 53 Fixtures, Furnishings & Equipment Allowance 1 LS 15,0 54 Technology & Computer Equipment Allowance 1 LS 85,0 55 State reviews 1 LS 85,0 56 Fundraising Consultanting 1 LS 283,9 Site Work Construction Cost Total 52,1 Building Construction Cost Total 1,491,8	V	1			
46 Geo Thermal Horizontal Test Well 1 LS 47 Site Survey (utilize existing facility documents) 1 LS 1,5 48 Printing Costs for Construction Documents 1 LS 1,0 49 Construction Permits & Fees 1 LS 7 50 Builders Risk Insurance 1 LS 3,0 51 Quality Control Material Testing & Inspections 1 LS 3,0 52 Hazardous Material sampling 1 LS 3,0 53 Fixtures, Furnishings & Equipment Allowance 1 LS 15,0 54 Technology & Computer Equipment Allowance 1 LS 85,0 55 State reviews 1 LS 5 56 Fundraising Consultanting 5 5 5 5 5 6 Fundraising Consultanting 5 5 5 5 5 6 7 6 6 6 6 6 7 6 7 6 6 7 6 7 7 7 7 7 7 <					
47 Site Survey (utilize existing facility documents) 1 LS 1,5 48 Printing Costs for Construction Documents 1 LS 1,0 49 Construction Permits & Fees 1 LS 7 50 Builders Risk Insurance 1 LS 3,0 51 Quality Control Material Testing & Inspections 1 LS 3,0 52 Hazardous Material sampling 1 LS 3,0 53 Fixtures, Furnishings & Equipment Allowance 1 LS 15,0 54 Technology & Computer Equipment Allowance 1 LS 85,0 55 State reviews 1 LS 5 56 Fundraising Consultanting 5 5 5 5 5 5 5 5 5 5 5 5 6 7 7 6 6 <td></td> <td></td> <td></td> <td></td> <td></td>					
48 Printing Costs for Construction Documents 1 LS 1,0 49 Construction Permits & Fees 1 LS 7 50 Builders Risk Insurance 1 LS 3,0 51 Quality Control Material Testing & Inspections 1 LS 3,0 52 Hazardous Material sampling 1 LS 15,0 53 Fixtures, Furnishings & Equipment Allowance 1 LS 15,0 54 Technology & Computer Equipment Allowance 1 LS 85,0 55 State reviews 1 LS 5 56 Fundraising Consultanting 5 5 5 5 5 5 5 5 5 5 5 5 5 6 6 7 6 6 7 6 7 6 7 6 7					4.50
49 Construction Permits & Fees 1 LS 7. 50 Builders Risk Insurance 1 LS 7. 51 Quality Control Material Testing & Inspections 1 LS 3,0 52 Hazardous Material sampling 1 LS 1 53 Fixtures, Furnishings & Equipment Allowance 1 LS 15,0 54 Technology & Computer Equipment Allowance 1 LS 85,0 55 State reviews 1 LS 5 56 Fundraising Consultanting 5 5 5 5 5 5 5 5 5 5 5 5 5 5 6 6 7 6 5 5 5 5 6 6 7 6 6 6 6 6 7 6 7 6 7 6 7 <td></td> <td></td> <td></td> <td></td> <td></td>					
50 Builders Risk Insurance					1,00
51 Quality Control Material Testing & Inspections 1 LS 3,0 52 Hazardous Material sampling 1 LS	V				
52 Hazardous Material sampling 1 LS 150 53 Fixtures, Furnishings & Equipment Allowance 1 LS 15,0 54 Technology & Computer Equipment Allowance 1 LS 85,0 55 State reviews 1 LS 5 56 Fundraising Consultanting 1 LS 15,0 Soft Cost SubTotal 283,9 Site Work Construction Cost Total 52,1 Building Construction Cost Total 1,491,8					
53 Fixtures, Furnishings & Equipment Allowance 1 LS 15,0 54 Technology & Computer Equipment Allowance 1 LS 85,0 55 State reviews 1 LS 5 56 Fundraising Consultanting 1 LS 15,0 Soft Cost SubTotal 283,9 Site Work Construction Cost Total 52,1 Building Construction Cost Total 1,491,8					3,00
54 Technology & Computer Equipment Allowance 1 LS 85,0 55 State reviews 1 LS 5 56 Fundraising Consultanting 1 LS 15,0 Soft Cost SubTotal 283,9 Site Work Construction Cost Total 52,1 Building Construction Cost Total 1,491,8					15,00
55 State reviews 1 LS 5 56 Fundraising Consultanting 1 LS 15,0 Soft Cost SubTotal 283,9 Site Work Construction Cost Total 52,1 Building Construction Cost Total 1,491,8					85,00
Soft Cost SubTotal 283,9 Site Work Construction Cost Total 52,1 Building Construction Cost Total 1,491,8	55 State reviews	1	LS		50
Site Work Construction Cost Total 52,1 Building Construction Cost Total 1,491,8	56 Fundraising Consultanting	1	LS		15,00
Building Construction Cost Total 1,491,8		Soft Cost	SubTotal	_	283,90
*	Site	Work Construction (Cost Total	_	52,16
PROJECT TOTAL COST \$1,277.03	Bu	uilding Construction (Cost Total		1,491,860
		PROI	ECT TO	TAL COST	\$1,827,933



Project No.: 2014319 Owner: City of Oshkosh Date: 12.2.2014 Phase: Master Planning Estimator: KE

Project: Menominee Park Zoo Long Range Plan

		ı	<u> </u>	
DESCRIPTION	QTY	UNIT	COST/SF	TOTALS
uilding and Exhibit Construction Costs:				
New construction				
1 Small Animal support structure	250	SF	125.00	31,2
Exhibits & Enclosure				
2 Small Animal Complex: fox, porcupine, Badger, Raccoon, skunks	3,600	SF	50.00	180,0
3 Elk transfer and Support structure	400	SF	75.00	30,0
4 Prairie Dog Exhibit	1,800	SF	75.00	135,0
5 Interpretive elements	1	EA	9,000.00	9,
	6,051	SubTotal		205
D	Design / Bid Conting			385, 57,
	onstruction Costs			443,
			_	
	Construction Conting	•		22,
BUILDING	CONSTRUCTI	ON CO	ST TOTAL	\$465,1
te Work Construction Costs				
24 Storm Sewer modifications	30	LF	100	3,0
25 Domestic Water & Sanitary Sewer	1	LS	4,000	4,
26 Electrical	1	LS	2,000	2,
29 Earthwork	200	CY	30	6,
31 Pedestrian Paving	2,000	SF	7.00	14,
32 Lawns & Landscaping	1	LS	10,000	10,
34 Directional & Informational Signage	1	LS	5,000	5,
35 Educational and Interpretive Signage	1	LS	5,000	5,
	•	SubTotal		49,
D	Design / Bid Conting	ency 15%		7,
Site Work Co	onstruction Costs	SubTotal		56,
	Construction Conting	gency 5%	_	2,
SITE WORK	CONSTRUCTI	ON CO	ST TOTAL	\$59,
			T	,,,,
oft Costs				
10 Land Acquisition	1	LS		
11 Legal Fees	1	LS	+	1,
2 Architectural & Engineering Design Fees	1	LS	+	52
3 Environmental Designer	1	LS		
4 Life Support Design	1	LS LS	+	
F. Franciskian Danian Francisco	1	LS		
5 Furnishing Design Fees 6 Geo Thermal Horizontal Test Well	1			1
6 Geo Thermal Horizontal Test Well	1			
6 Geo Thermal Horizontal Test Well 7 Site Survey (utilize existing facility documents)	1	LS		
Geo Thermal Horizontal Test Well Site Survey (utilize existing facility documents) Printing Costs for Construction Documents		LS LS		
Geo Thermal Horizontal Test Well Site Survey (utilize existing facility documents) Printing Costs for Construction Documents Construction Permits & Fees	1 1	LS LS LS		
6 Geo Thermal Horizontal Test Well 7 Site Survey (utilize existing facility documents) 8 Printing Costs for Construction Documents	1 1	LS LS		
Geo Thermal Horizontal Test Well Site Survey (utilize existing facility documents) Printing Costs for Construction Documents Construction Permits & Fees Builders Risk Insurance	1 1 1 1	LS LS LS LS		3
Geo Thermal Horizontal Test Well Site Survey (utilize existing facility documents) Printing Costs for Construction Documents Construction Permits & Fees Builders Risk Insurance Quality Control Material Testing & Inspections	1 1 1 1	LS LS LS		
Geo Thermal Horizontal Test Well Site Survey (utilize existing facility documents) Printing Costs for Construction Documents Construction Permits & Fees Builders Risk Insurance Quality Control Material Testing & Inspections Hazardous Material sampling Fixtures, Furnishings & Equipment Allowance	1 1 1 1 1	LS LS LS LS LS LS LS		1
Geo Thermal Horizontal Test Well Site Survey (utilize existing facility documents) Printing Costs for Construction Documents Construction Permits & Fees Builders Risk Insurance Quality Control Material Testing & Inspections Hazardous Material sampling Fixtures, Furnishings & Equipment Allowance Technology & Computer Equipment Allowance State reviews	1 1 1 1 1 1 1	LS		10
Geo Thermal Horizontal Test Well Site Survey (utilize existing facility documents) Printing Costs for Construction Documents Construction Permits & Fees Builders Risk Insurance Quality Control Material Testing & Inspections Hazardous Material sampling Fixtures, Furnishings & Equipment Allowance Technology & Computer Equipment Allowance State reviews	1 1 1 1 1 1 1 1	LS		10
Geo Thermal Horizontal Test Well Site Survey (utilize existing facility documents) Printing Costs for Construction Documents Construction Permits & Fees Builders Risk Insurance Quality Control Material Testing & Inspections Hazardous Material sampling Fixtures, Furnishings & Equipment Allowance Technology & Computer Equipment Allowance State reviews	1 1 1 1 1 1 1 1 1 1	I.S I.S I.S I.S I.S I.S I.S I.S		10 2
Geo Thermal Horizontal Test Well Site Survey (utilize existing facility documents) Printing Costs for Construction Documents Construction Permits & Fees Builders Risk Insurance Quality Control Material Testing & Inspections Hazardous Material sampling Fixtures, Furnishings & Equipment Allowance Technology & Computer Equipment Allowance State reviews Fundraising Consultanting	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I.S I.S I.S I.S I.S I.S I.S I.S I.S SubTotal		10 2 15 88
Geo Thermal Horizontal Test Well Site Survey (utilize existing facility documents) Printing Costs for Construction Documents Construction Permits & Fees Builders Risk Insurance Quality Control Material Testing & Inspections Hazardous Material sampling Fixtures, Furnishings & Equipment Allowance Technology & Computer Equipment Allowance State reviews Fundraising Consultanting Site W	1 1 1 1 1 1 1 1 1 1 Soft Cost	IS I		3



Owner: City of Oshkosh Project No.: 2014319 Date: 12.2.2014

Project : Menominee Park Zoo Long Range Plan Phase: Master Planning Estimator : KE

Fliase o				
DESCRIPTION	QTY	UNIT	COST/SF	TOTALS
Building and Exhibit Construction Costs:				
New construction				
1 Bobcat Structure	450	SF	125.00	56,25
Exhibits & Enclosure				
2 Interpretive elements	2	EA	9,000.00	18,00
3 Black Bear Exhibit Yard	8,000	SF	75.00	600,00
4 Bobcat exhibit yard	3,500 11,952	SF	75.00	262,50
		SubTotal		936,75
	Design / Bid Conting			140,51
Buildi	ing Construction Costs	SubTotal	_	1,077,26
	Construction Contin	gency 5%	_	53,86
BUILD	ING CONSTRUCT	ION CO	ST TOTAL	\$1,131,120
Site Work Construction Costs				
20 Storm Sewer modifications	40	LF	100	4,00
21 Domestic Water & Sanitary Sewer	1	LS	4,000	4,00
22 Electrical	1	LS	3,000	3,00
23 Earthwork	400	CY	30	12,00
24 Retaining Walls	200	LF	40	8,00
25 Pedestrian Paving	300	SF	7.00	2,10
26 Lawns & Landscaping	1	LS	15,000	15,00
27 Shade structure	1	LS	6,000	6,00
28 Directional & Informational Signage	1	LS	5,000	5,00
29 Educational and Interpretive Signage	1	LS	5,000	5,00
	p : /p://	SubTotal		64,10
O. W.	Design / Bid Conting			9,61
Site Wo	ork Construction Costs		_	73,71
	Construction Contin	gency 5%		3,68
SITE W	ORK CONSTRUCT	ION CO	ST TOTAL	\$77,40
Soft Costs				
40 Land Acquisition	1	LS		
41 Legal Fees	1	LS		2,50
42 Architectural & Engineering Design Fees	1	LS		120,85
43 Environmental Designer	1	LS		4,00
44 Life Support Design	1	LS		
45 Furnishing Design Fees	1	LS		
46 Site Survey (utilize existing facility documents)	1	LS	-	1,50
47 Printing Costs for Construction Documents	1	LS		1,00
48 Construction Permits & Fees	1	LS		50
49 Builders Risk Insurance	1	LS		50
50 Quality Control Material Testing & Inspections	1	LS	+	3,00
51 Hazardous Material sampling	1	LS	+	10.00
52 Fixtures, Furnishings & Equipment Allowance 53 Technology & Computer Equipment Allowance	1	LS LS		10,00 5,00
53 Technology & Computer Equipment Allowance 54 State reviews	1	LS		5,00
55 Fundraising Consultanting	1	LS		20,00
	Soft Cost	SubTotal		169,35
	Site Work Construction C	Cost Total	_	77,40
	Building Construction C	Cost Total	_	1,131,12
			TAL COST	\$1,377,879
	1 10)	20110	, 1 ML 0031	Ψ1,3//,0/

SECTION 2

APPENDICES



2.1 Design Workshop Images







