

The Maryland Zoo in Baltimore

Penguin Exhibit

Construction Bid Form

Bidder (Company): The Whiting-Turner Contracting Co.

Bidder Contact Name: Irene Knott

Bidder contact phone: 410-337-5774

Bidder contact email: irene.knott@whiting-turner.com

Bid Due September 19, 2012 2:00 PM

DIV	Division	Subcontractor	Cost	Alternate #1- Embassy Holding & Habitat	Alternate #2- Bait Shack	Alternate #3- Wharf Shade Structure
1	General Conditions		\$ 489,316.00	\$ -	\$ -	\$ -
	Temporary Fencing		Included	Included	Included	Included
	Construction Fencing Screen Print	Allowance	\$ 5,000.00			
	Geotechnical engineer		\$ 6,580.00	\$ -	\$ -	\$ -
2	Existing Conditions		\$ -	\$ -	\$ -	\$ -
3	Concrete					
	Cast in Place		\$ 634,142.01	\$ (26,046.00)	\$ (6,845.00)	\$ (3,000.00)
	Architectural Concrete		\$ 199,935.00	\$ -	\$ -	\$ -
	Rockwork/Shotcrete		\$ 311,265.00	\$ (4,100.00)	\$ (1,145.00)	\$ -
	Pool		\$ 254,500.00	\$ (6,150.00)	\$ -	\$ -
4	Masonry					
	Concrete unit masonry		\$ 96,670.00	\$ (8,950.00)	\$ (5,240.00)	\$ -
5	Metals					
	Structural Steel		\$ 295,805.00	\$ -	\$ -	\$ -
	Steel Joist & Decking		\$ 6,675.00	\$ -	\$ -	\$ -
	Stairs		\$ 45,650.00	\$ -	\$ -	\$ -
	Ladders		\$ 9,960.00	\$ -	\$ -	\$ -
	Railings		\$ 62,405.00	\$ -	\$ -	\$ -
	other		\$ 78,455.00	\$ (2,625.00)	\$ -	\$ -
6	Wood/Plastics/Composites					
	Rough Carpentry		\$ 113,607.00	\$ (16,487.00)	\$ (13,683.00)	\$ -
	Exterior Finish Carpentry		\$ 6,583.00	\$ (1,687.00)	\$ (2,112.00)	\$ -
	Interior Finish Carpentry		\$ 14,842.00	\$ -	\$ -	\$ -
	Cabinetry		\$ 10,023.00	\$ -	\$ (2,880.00)	\$ -
	other		\$ -	\$ -	\$ -	\$ -
7	Thermal Moisture Protect					
	Fluid applied Waterproof		\$ 31,060.00	\$ (465.00)	\$ (465.00)	\$ -
	Polymer modified waterproof		\$ 31,493.00	\$ (5,100.00)	\$ (5,100.00)	\$ -
	Insulation		\$ 17,678.00	\$ (780.00)	\$ (780.00)	\$ -
	Metal Roof Panels		\$ 40,990.00	\$ (4,750.00)	\$ (5,750.00)	\$ -
	EPDM Roofing		\$ 40,360.00	\$ -	\$ -	\$ -
	Fiber Cement siding		\$ 110,440.00	\$ (16,510.00)	\$ (11,435.00)	\$ -
	Sheet Metal flashing/trim		\$ 11,900.00	\$ -	\$ -	\$ -
	Joint sealants		\$ 16,500.00	\$ -	\$ -	\$ -
	other		\$ 23,822.00	\$ -	\$ -	\$ -
8	Openings					
	Sliding Barn Doors / Hardware		\$ 15,388.00	\$ -	\$ -	\$ -
	Fiberglass doors / frames		\$ 13,400.00	\$ (5,820.00)	\$ -	\$ -
	Hollow Metal doors/frames		\$ 12,220.00	\$ -	\$ (1,130.00)	\$ -
	Rolling service doors		\$ 7,870.00	\$ -	\$ -	\$ -
	Coiling counter doors		\$ 4,758.00	\$ -	\$ (4,758.00)	\$ -
	Windows		\$ 20,800.00	\$ (3,000.00)	\$ -	\$ -
	Skylights		\$ -	\$ -	\$ -	\$ -
	Hardware		\$ 23,155.00	\$ -	\$ -	\$ -
	Mirrors		\$ 210.00	\$ -	\$ -	\$ -
	other		\$ 489,927.00	\$ -	\$ -	\$ -

DIV	Division	Subcontractor	Cost	Alternate #1- Embassy Holding & Habitat	Alternate #2- Bait Shack	Alternate #3- Wharf Shade Structure
9	Finishes					
	Metal Stud Drywall		\$ 89,800.00	\$ (3,800.00)	\$ (6,500.00)	\$ -
	Tile		\$ 4,691.00	\$ -	\$ -	\$ -
	Acoustical ceilings		\$ 15,000.00	\$ -	\$ -	\$ -
	Cork Flooring / base		\$ 25,476.00	\$ -	\$ -	\$ -
	Staining transparent finish		\$ 30,025.00	\$ (6,620.00)	\$ (2,300.00)	\$ -
	Textured acrylic coating		\$ 5,785.00	\$ -	\$ -	\$ -
	other		\$ 65,975.00	\$ (9,605.00)	\$ (4,550.00)	\$ -
10	Specialties					
	Metal Lockers		\$ 1,050.00	\$ -	\$ (2,748.30)	\$ -
	Wayfinding Interpretive signage Allowance	Allowance	\$ 100,000.00			
	other		\$ 2,645.00	\$ -	\$ -	\$ -
11	Equipment					
12	Furnishings					
	Laminated countertops		\$ 1,192.00	\$ -	\$ -	\$ -
	Stone countertops		\$ 11,168.00	\$ -	\$ (8,638.88)	\$ -
	Kitchen Appliances		\$ 42,365.00	\$ (9,725.00)	\$ (2,250.00)	\$ -
	Site Furnishings Allowance	Allowance	\$ 10,000.00			
13	Special Construction					
	Cold Storage Rooms		\$ 8,200.00	\$ -	\$ -	\$ -
	Lightning protection		\$ 29,000.00	\$ -	\$ -	\$ -
17	Life Support Systems					
	Life Support Systems		\$ 2,015,000.00	\$ (33,000.00)	\$ -	\$ -
	Wave Crash mechanism		\$ 80,000.00	\$ -	\$ -	\$ -
21	Fire Suppression					
	Wet Pipe Sprinkler System		\$ 17,250.00	\$ -	\$ -	\$ -
22	Plumbing					
	Domestic Water		\$ 93,000.00	\$ -	\$ -	\$ -
	Sanitary waste and vent		\$ 143,500.00	\$ -	\$ -	\$ -
	Ejector systems		\$ 27,200.00	\$ -	\$ -	\$ -
	Fixtures installed		\$ 24,000.00	\$ -	\$ -	\$ -
	other		\$ -	\$ (16,700.00)	\$ (10,100.00)	\$ -
23	HVAC					
	Equipment		\$ 99,900.00	\$ -	\$ -	\$ -
	Ductwork		\$ 66,100.00	\$ -	\$ -	\$ -
	Insulation		\$ 42,350.00	\$ -	\$ -	\$ -
	Piping		\$ 51,150.00	\$ -	\$ -	\$ -
	Commissioning		\$ 6,200.00	\$ -	\$ -	\$ -
	other		\$ 52,600.00	\$ (22,800.00)	\$ (5,400.00)	\$ -
26	Electric					
	Service Gear		\$ 24,000.00	\$ -	\$ -	\$ -
	Power Distribution		\$ 38,000.00	\$ -	\$ -	\$ -
	Interior light fixtures		\$ 42,000.00	\$ -	\$ -	\$ -
	Exterior Light Fixtures		\$ 14,000.00	\$ -	\$ -	\$ -
	other		\$ 233,000.00	\$ (23,900.00)	\$ (24,350.00)	\$ -
27	Communications					
	Voice/Data		\$ 4,000.00	\$ -	\$ -	\$ -
28	Electronic safety & Security					
	Electronic Barrier Systems		\$ 17,000.00	\$ -	\$ -	\$ -
	Fire Alarm System		\$ 65,000.00	\$ -	\$ -	\$ -
	other		\$ -	\$ -	\$ -	\$ -
31	Earthwork					
	Sediment erosion control		\$ 40,400.00	\$ -	\$ -	\$ -
	Clearing Grubbing		\$ 10,000.00	\$ -	\$ -	\$ -
	Demolition		\$ 43,000.00	\$ -	\$ -	\$ -
	Grading		\$ 189,000.00	\$ -	\$ -	\$ -
	other		\$ -	\$ -	\$ -	\$ -

DIV	Division	Subcontractor	Cost	Alternate #1- Embassy Holding & Habitat	Alternate #2- Bait Shack	Alternate #3- Wharf Shade Structure
32	Exterior Improvements					
	Asphalt Paving		\$ 55,000.00	\$ -	\$ -	\$ -
	Concrete Paving		\$ 305,185.00	\$ -	\$ -	\$ -
	Decorative Concrete paving		\$ 69,116.00	\$ -	\$ -	\$ -
	Porous Paving		\$ 4,500.00	\$ -	\$ -	\$ -
	Landscaping		\$ 122,315.00	\$ (635.00)	\$ 3,350.00	\$ -
	Storm Water Management		\$ 190,000.00	\$ -	\$ -	\$ -
	other		\$ 390,170.00	\$ (3,300.00)	\$ (2,000.00)	\$ (35,000.00)
33	Utilities					
	BGE Service/Relocations	Allowance	\$ 125,000.00			
	Sub Total		\$ 8,694,692.01	\$ (232,555.00)	\$ (126,810.18)	\$ (38,000.00)
	Overhead & Profit %		2.25%	2.25%	2.25%	2.25%
	Overhead & Profit Amount		\$ 195,630.57	\$ (5,232.49)	\$ (2,853.23)	\$ (855.00)
	Sub Total		\$ 8,890,322.58	\$ (237,787.49)	\$ (129,663.41)	\$ (38,855.00)
	Payment & Performance Bond %		0.75%	0.75%	0.75%	0.75%
	Payment & Performance Bond Amount		\$ 66,677.42	\$ (1,783.41)	\$ (972.48)	\$ (291.41)
	Grand Total		\$ 8,957,000.00	\$ (239,570.89)	\$ (130,635.88)	\$ (39,146.41)

Calendar Days to Complete	395
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Percentage of Minority Participation	10%
Value of Minority Participation	\$ 895,700.00

Alternates: (all to include OH&P and P&P bond)

Deduct

Alternate #1 Embassy Penguin Holding Building & Habitat	\$ (239,570.89)	= Grand Total as calculated above
Alternate #2 Bait Shack	\$ (130,635.88)	= Grand Total as calculated above
Alternate #3 Wharf Shade Structure	\$ (39,146.41)	= Grand Total as calculated above
Alternate #4 Blowhole Feature	\$ (182,556.20)	
Alternate #5 colored concrete paving	\$ (39,146.41)	
Alternate #6 Hoist Frame at Penguin Holding Building	\$ (26,181.74)	
Alternate #7 Theme work to existing concrete wall	\$ (3,543.78)	
Alternate #8 Rockwork Model	\$ (14,386.31)	
Maximum cost of weekly General Conditions	\$ 8,500.00	
General Contractor markup on Change Order work	*	
Markup on subcontractors for change orders	15.00%	
Maximum subcontractor markup on materials & labor	15.00%	
Maximum Combined Markup on third tier subs	15.00%	
EMR Rate	0.59%	
Value Engineering Savings	\$ -	
Value Engineering Savings	\$ -	
Value Engineering Savings	\$ -	
Value Engineering Savings	\$ -	

Unit Cost:

Rock Excavation, per cubic yard, requiring equipment larger than a 50,000lb excavator or a D8 with a Ripper	\$ 150.00
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* Fee for change orders will be 0% for the first \$200,000 worth of changes. 5% will be charge for all changes above \$200,000.