

Project: Okehocking Nature Center
Number: 07142E2
Client: M2 Architecture
Date: June 5, 2009
Phase: DD

BECKER & FRONDORF
 Construction Cost Consulting • Project Management

ESTIMATE SUMMARY

CODE	DESCRIPTION	3.7	AC	COST
A	Site Demolition			\$34,300
B	Hardscape			\$366,780
C	Landscaping			\$271,660
D	Stormwater Management			\$44,280
E	Pavilion			\$515,890
F	Mechanical/Electrical & Utilities			\$178,530
	Subtotal			\$1,411,440
	General Conditions / O. H. & P.		15.0%	\$211,560
	Bond		1.0%	\$16,000
	Contingency		10.0%	\$164,000
	Total			\$1,803,000
Notes				
<i>Costs are current for Spring 2009; escalation is not included.</i>				
Alternates				
	Pervious Asphalt Path ILO Stone Dust	6,000	SF Add	\$13,000

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CODE	DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
A	Site Demolition				
A1	Demolition - Pole Barn/100'x50'/No Details	1	LS	10,000.00	10,000
A2	- Concrete Slab/Salvage Pieces for Reuse	5,000	SF	2.00	10,000
A3	- Asphalt Paving	100	SY	5.00	500
A4	- Crushed Stone Drive	3,000	SY	2.50	7,500
A5	- Concrete Pad	2	EA	250.00	500
A6	- Stone Walls/Dry Stack/Salvage Stone For Reus	100	LF	20.00	2,000
A7	- Propane Tank	1	EA	1,000.00	1,000
A8	- Trees/28" Diam	1	EA	400.00	400
A9	- 12" to 18" Diam	7	EA	200.00	1,400
A10	Granite Monument - Relocate Exg/Assume Small	1	LS	1,000.00	1,000
A11					0
A12					0
	Subtotal				34,300
B	Hardscape				
B1	Earthwork - Cut to Fill	1,210	CY	15.00	18,150
B2	- Fill	1,440	CY	15.00	21,600
B3	- Borrow	230	CY	20.00	4,600
B4	- Fine Grading @ Paving Areas/Allowance	38,000	SF	0.50	19,000
B5	Asphalt Paving	1,250	SY	30.00	37,500
B6	Pervious Asphalt - Excavate/15" Avg	480	CY	15.00	7,200
B7	- Pervious Asphalt Paving *	1,160	SY	42.00	48,720
B8	Pervious Concrete Sidewalks w/6" Stone Subbase	460	SF	10.00	4,600
B9	Turf Paving - GrassPave w/ 6" Stone Subbase *	4,655	SF	5.00	23,280
B10	Stone Fines Path - 6"W/4" D	6,000	SF	5.00	30,000
B11	Gravel Road @ Service Drive/Farmhouse Drive	3,200	SF	1.50	4,800
B12	Concrete Rubble from Salvage @ Gravel/Stone Fi	2,340	SF	2.50	5,850
B13	Curbs - Concrete	220	LF	15.00	3,300
B14	HC Curb Ramp	1	EA	750.00	750
B15	Boulder Steps - Stone/Geotextile	50	EA	500.00	25,000
B16	Stone Walls - Dry Stack/2.5' H Avg/ From Salvage	100	LF	150.00	15,000

B17	- From Imported Stone	365	LF	200.00	73,000
B18	Riverstone Edge - 18" W x3"D/Stones/Geotextile	200	LF	10.00	2,000
B19	- Steel Edging/6"	400	LF	7.50	3,000
B20	Striping @ Parking Lot - Standard Spaces	44	EA	20.00	880
B21	- HC	2	EA	200.00	400
B22	- Roadway/4" White Line	250	LF	2.00	500
B23	Wheel Stops	18	EA	75.00	1,350
B24	Site Accessories - Boulder Table/No Spec	1	EA	2,500.00	2,500
B25	Boulder Seats - From Site	15	EA	300.00	4,500
B26	Wood Guard Rail @ Entry Drive/Parking	310	LF	30.00	9,300
B27					0
B28					0
	Subtotal				366,780

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CODE	DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
C	Landscaping				
C1	Ground Preparation - Tilling/Composting	117,000	SF	0.25	29,250
C2	Woodland Groundcover Plugs -18" OC	55,000	SF	2.30	126,500
C3	Meadow Plugs -12" OC	1,130	SF	2.50	2,830
C4	Perennial Plugs - 12" OC	100	SF	5.00	500
C5	Seed/Fertilize - Meadow	50,000	SF	0.25	12,500
C6	- Lawns	11,000	SF	0.20	2,200
C7	Bioretention Area - Planting Mix	30	CY	60.00	1,800
C8	- Plants/Aquilegia Canadensis/Wild Columbine	30	EA	25.00	750
C9	- Aster Cordifolius	30	EA	25.00	750
C10	- Silene Virginica	27	EA	25.00	680
C11	Trees - 2.5" Cal/B&B/No Spec	75	EA	600.00	45,000
C12	- Container Size #7	114	EA	250.00	28,500
C13	- Container Size #2	73	EA	150.00	10,950
C14	Shrubs	126	EA	75.00	9,450
C15					0
C16					0
C17					0
C18					0
C19					0
C20					0
	Subtotal				271,660
D	Stormwater Management				
D1	Curb Inlet - PC Conc/Type M/Bicycle Safe Grate	2	EA	3,000.00	6,000
D2	- Relocate Exg Inlet	1	EA	1,500.00	1,500
D3	- RCP/12"	40	LF	40.00	1,600
D4	- Connection @ Exg Storm Sewer/Rte 3	1	LS	2,500.00	2,500
D5	Drain Basin - PVC/12"Ø	2	EA	500.00	1,000
D6	- PVC/24"Ø	1	EA	750.00	750
D7	- Piping/HDPE/10"	80	LF	25.00	2,000
D8	Concrete Catch Basin/24"x24"	9	EA	1,500.00	13,500

D9	Infiltration Trench - Excavate	160	LF	15.00	2,400
D10	- Filter Fabric/Geotextile	1,280	SF	1.00	1,280
D11	- Stone Aggregate	20	CY	50.00	1,000
D12	- Piping/Perforated HDPE/6"	160	LF	20.00	3,200
D13	Vegetated Swale - Excavate/Erosion Ctrl Mat/Etc	190	LF	20.00	3,800
D14	Level Spreader - Perforated HDPE/Stone/Etc	1	EA	1,500.00	1,500
D15	Bioretention Area - Excavate 8"/Geotextile	1	LS	1,200.00	1,200
D16	- Piping/HDPE/12"	30	LF	35.00	1,050
D17	- Plantings	1	LS	-	w/Landscaping
D18					0
D19					0
D20					0
	Subtotal				44,280

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CODE	DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
E	Pavilion				
E1	Earthwork - Fine Grading @ Bldg Footprint/Porch	3,000	SF	1.00	3,000
E2	- Excavate @ Lower Level	120	CY	25.00	3,000
E3	Foundations - Footings/Conc/Strip/4x1	110	LF	50.00	5,500
E4	- Concrete Piers @ Decking	12	EA	750.00	9,000
E5	- Basement Walls/Conc/9'H	990	SF	30.00	29,700
E6	- Waterproofing @ Below Grade Conc Walls	420	SF	7.50	3,150
E7	- Slab-on-Grade	1,020	SF	6.00	6,120
E8	- Thickened Slab/Scope Unclear	32	LF	25.00	800
E9	- Perimeter Drainage	100	LF	15.00	1,500
E10	- Chimney Foundation/Footing/Not Shown	1	LS	10,000.00	10,000
E11	Roof Framing - Glulam	3,260	SF	15.00	48,900
E12	- Posts/Glulam/15' H Avg	27	EA	750.00	20,250
E13	- Roof Deck/From Salvage/3"	3,260	SF	10.00	32,600
E14	Floor Framing - Supported Floor/ TJI Joist	500	SF	10.00	5,000
E15	- Deck/Not Detailed	500	SF	7.50	3,750
E16	Roofing - Standing Seam/Galvalume & Flashing	3,260	SF	25.00	81,500
E17	- Insulation @ Toilets/Storage	500	SF	5.00	2,500
E18	- Gutters & Downspouts/Not Shown	120	LF	15.00	1,800
E19	- Connect Downspouts to Rainwater Cistern	1	LS	500.00	500
E20	Exterior Wall - Stone Veneer/From Salvage	1,670	SF	35.00	58,450
E21	- Backup/Assume CMU	1,280	SF	15.00	19,200
E22	- Backup/Basement Wall	390	SF	-	w/Basement Wall
E23	- Wd Framed/Lattice & Wire Encl @ Bsmt	560	SF	15.00	8,400
E24	Interior Partitions - CMU	520	SF	15.00	7,800
E25	Windows - No Specs/Assume Wd Fr/Insul	3	EA	1,200.00	3,600
E26	Doors - Singles @ Toilets/Storage/Janitors	6	EA	1,500.00	9,000
E27	- Double @ Lower Level/Assume Wire Mesh	1	PR	1,000.00	1,000
E28	Chimney - Stone Veneer/Backup CMU	600	SF	50.00	30,000
E29	Porch & Bridge/Decking/Framing - Trex	2,500	SF	25.00	62,500
E30	- Wd Railings/Posts/Black Locust/No Details	230	LF	100.00	23,000
E31	Interior Finishes - Flooring/CT @ Toilets	310	SF	12.50	3,880
E32	- Sealed Conc @ Janitors/Storage/Composting	690	SF	1.00	690
E33	Base - CT @ Toilet Rms	100	LF	12.50	1,250
E34	Walls - Paint	2,800	SF	1.25	3,500

E35	Ceilings - DW @ Main Floor	500	SF	10.00	5,000
E36	- Exposed @ Lower Level	500	SF	-	No Work
E37	Toilet Rm Accessories - Toilet Partitions	6	EA	1,000.00	6,000
E38	- TP Dispensers	6	EA	75.00	450
E39	- Napkin Disposal/Partition Mtd	4	EA	75.00	300
E40	- Mirrors	6	EA	200.00	1,200
E41	- Soap Dispenser	6	EA	125.00	750
E42	- HC Grab Bar Sets	2	EA	225.00	450
E43	- Paper Towel Dispenser/Disposal	2	EA	450.00	900
E44					0
E45					0
E46					0
	Subtotal				515,890

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CODE	DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
F	Mechanical/Electrical & Utilities				
F1	Plumbing - Composting Toilets/Assume Clivus	6	EA	5,000.00	30,000
F2	- Waterless Urinals	2	EA	750.00	1,500
F3	- Lavs/Low Flow	6	EA	650.00	3,900
F4	- Mop Basin	1	EA	750.00	750
F5	- EWC/Bi-Level	1	EA	2,500.00	2,500
F6	- Rough-in	16	EA	500.00	8,000
F7	- Water Heater/Elec Instantaneous/Point of Use	3	EA	1,000.00	3,000
F8	- Piping/Valves/Insulation/Per Fixture Allowance	16	EA	2,500.00	40,000
F9	HVAC - Heating/Elec Unit Heaters @ Toilet Rms	2	EA	1,500.00	3,000
F10	- Unit Heaters @ Storage/Janitors	4	EA	500.00	2,000
F11	- Toilet Rm Exhaust	2	EA	2,500.00	5,000
F12	- Air Conditioning	1	LS	-	NIC
F13	Electrical Wiring & Distribution - No Details	1	LS	7,500.00	7,500
F14	Lighting - Toilet Rms	310	SF	7.50	2,330
F15	- Storage/Janitors/Composting	690	SF	5.00	3,450
F16	- Deck	2,320	SF	5.00	11,600
F17	Rainwater Cistern - 2600 Gallons/No Spec	1	EA	2,000.00	2,000
F18	Water Well - Potable Water/No Details	1	LS	7,500.00	7,500
F19	- Water Pump	2	EA	1,500.00	3,000
F20	- Filtration	1	LS	1,500.00	1,500
F21	Wastewater Treatment System - Assume 1000GP	1	LS	25,000.00	25,000
F22	Electrical Service/No Scope	1	LS	15,000.00	15,000
F23					0
F24					0
F25					0
F26					0
F27					0
F28					0
F29					0
F30					0
F31					0
F32					0
F33					0
F34					0

F35	0
F36	0
F37	0
F38	0
F39	0
F40	0
F41	0
F42	0
F43	0
F44	0
F45	0
F46	0
Subtotal	178,530