

**ESTIMATED PROJECT COSTS**

ITEM	QUANTITY	SIZE	UNIT COST	TOTAL COST
<b>CONSTRUCTION</b>				
<b>1. DEMOLITION</b>				
a. Timber Removal of Trees over 4" cal	7.84	ac	\$5,250.00	\$41,144.25
b. Removal of Remaining Vegetation	7.84	ac	\$3,000.00	\$23,511.00
c. Removal of Vegetation Less than 4"	6.51	ac	\$5,250.00	\$34,177.50
d. Clear All but mature trees	0.61	ac	\$5,250.00	\$3,192.00
e. Clear for building & drive	2.71	ac	\$5,250.00	\$14,227.50
f. Invasive/Exotic Species Removal	5	ac	\$3,750.00	\$18,750.00
<b>2. GRADING and SITE PREP</b>				
a. Site Preparation for Drive and Parking	1.5	ac	\$45,000.00	\$67,500.00
b. Site Preparation for Building	1	ac	\$45,000.00	\$45,000.00
d. Rough Grading		one job		\$0.00
e. Topsoil for planting areas	33	Tandem	\$487.50	\$16,087.50
f. Boulders	40	Tons	\$105.00	\$4,200.00
<b>3. SUBSURFACE DRAINAGE CONTINGENCY</b>				
a. Drainage	1	one job	\$5,000.00	\$5,000.00
<b>4. DRIVE AND PARKING</b>				
a. Porous Concrete Installed	49320	sf	\$0.00	\$0.00
porous concrete - 6" depth	913	Cu Yd	\$0.00	\$0.00
pervious asphalt - 3" depth	457	Cu Yd	\$67.50	\$30,847.50
b. Sidewalks	2350	sf	\$0.00	\$0.00
porous concrete - 3" depth	30	Cu Yd	\$156.00	\$4,680.00
porous asphalt - 1" depth	7	Cu Yd	\$0.00	\$0.00
c. Striping for Parking bays / crosswalks	1	one job	\$5,250.00	\$5,250.00
d. Bridge to building	1	one job	\$35,640.00	\$35,640.00
<b>5. BIOENGINEERING</b>				
a. Stabilization and Erosion Control	1	one job	\$10,000.00	\$10,000.00
<b>6. RAVINES</b>				
a. Cut and Fill	352	Cu Yd	\$48.00	\$16,896.00
a. Bio D Log 30	234	lf	\$13.50	\$3,159.00
b. Bio D Mat 40 – 6.5' x 165'	3	ea	\$234.00	\$702.00
c. Staples	2	box	\$54.00	\$108.00
d. Stakes	3	25ct	\$27.00	\$81.00
e. Split Rail Fence	275	lf	\$8.63	\$2,371.88
f. Equipment	10	days	\$637.50	\$6,375.00
g. Installation	10	days	\$850.00	\$8,500.00
<b>7. WATER FEATURE</b>				
a. Excavation	322	Cu Yd		\$0.00
b. River Sand	15	Cu Yd	\$31.82	\$477.23
c. Soft Liner	5534	sf	\$0.20	\$1,079.13
d. Hard Liner	11068	sf	\$0.27	\$2,988.36
e. Pea Gravel	5	Cu Yd	\$97.50	\$487.50
f. River Stone – 2"- 3"	17	Cu Yd	\$169.14	\$2,875.38

**ESTIMATED PROJECT COSTS**

g. River Stone – 4"- 8"	13	Cu Yd	\$173.30	\$2,252.84
h. River Stone – 8"- 12"	10	Cu Yd	\$177.00	\$1,770.00
i. Boulders	220	Ton	\$112.50	\$24,750.00
j. Pump, skimmer, filters	1	one	\$10,500.00	\$10,500.00
k. recirculation lines	1	one job	\$2,250.00	\$2,250.00
l. Equipment	9	week	\$2,250.00	\$20,250.00
m. Installation	35	days	\$850.00	\$29,750.00
8. DRY STREAM	1000	sf	\$24.24	\$24,240.00
9. RAIN GARDEN	2000	sf	\$18.47	\$36,930.00
10. BOG GARDEN	500	sf	\$17.28	\$8,640.00
11. GRANITE OUTCROP	28125	sf		
a. Excavation	2000	Cu Yd	\$37.50	\$75,000.00
b. Granite Boulders (4x8x2ish)	88	Tandem	\$975.00	\$85,800.00
Installation	34	days	\$850.00	\$28,900.00
c. equipment	7	week	\$2,250.00	\$15,750.00
d. granite fines	18	Cu Yd	\$75.00	\$1,350.00
e. pavers (granite)	2	pallet	\$600.00	\$1,200.00
f. Curving Boardwalks (332 sf each) x 2	664	sf	\$45.00	\$29,880.00
g. Seating Area boulders	16	ea	\$45.00	\$720.00
12. PERIPHERAL TRAIL – 6' width (10' clear)	6545.25	lf		
a. Surveying and layout		one job		\$0.00
b. Clearing	1.7	ac	\$5,250.00	\$8,925.00
c. Rough Grading	1.7	ac	\$5,250.00	\$8,925.00
d. Porous Concrete (6' w)	39270	sf	\$0.00	\$0.00
	484	Cu Yd	\$0.00	\$0.00
e. Pervious Asphalt	242	Cu Yd	\$67.50	\$16,335.00
f. Bridge	160	sf	\$45.00	\$7,200.00
g. Curving Boradwalk	331	sf	\$45.00	\$14,895.00
13. EASY TRAIL – 6' width (10' clear)	1805	lf		
a. Surveying and layout		one job		\$0.00
b. Clearing	0.5	ac	\$5,250.00	\$2,625.00
c. Rough Grading	0.5	ac	\$5,250.00	\$2,625.00
d. Pervious Concrete (6' w)	10900	sf	\$0.00	\$0.00
	0	Cu Yd		\$0.00
e. Pervious Asphalt	66	Cu Yd	\$67.50	\$4,455.00
14. MODERATE TRAIL – 4' width (8' clear)	3896	lf	\$2.84	\$11,045.16
a. Rough Grading	31168	sf		\$0.00
b. Bank Stabilization				\$0.00
c. Compaction	15584	sf		\$0.00
d. Swinging Bridge	160	sf	\$67.50	\$10,800.00
15. DIFFICULT TRAIL - 4' width (8' clear)	2730	lf	\$2.84	\$7,739.55
a. Rough Grading	21840	sf		\$0.00
b. Bank Stabilization		sf		\$0.00

**ESTIMATED PROJECT COSTS**

c. Compaction	10920	sf		\$0.00
d. Bridge	120	sf	\$37.50	\$4,500.00
16. PICNIC SHELTER #1 - 20 x 36	1	complete	\$15,153.75	\$15,153.75
a. Grading	0	one job		\$0.00
b. Concrete Floor	9	Cu Yd	\$120.00	\$1,080.00
c. Picnic Tables	8	ea	\$474.00	\$3,792.00
Shipping	8	ea	\$64.00	\$512.00
d. Splash Zone (57 stone)	3	Cu Yd	\$29.25	\$87.75
e. Equipment	1	weeks	\$900.00	\$900.00
f. Labor	5	days	\$850.00	\$4,250.00
17. PICNIC SHELTER #1 - 20 x 36	1	complete	\$15,153.75	\$15,153.75
a. Grading	0	one job		\$0.00
b. Concrete Floor	9	sf	\$120.00	\$1,080.00
c. Picnic Tables	8	ea	\$474.00	\$3,792.00
Shipping	8	ea	\$64.00	\$512.00
d. Splash Zone (57 stone)	3	Cu Yd	\$29.25	\$87.75
e. Equipment	1	weeks	\$900.00	\$900.00
f. Labor	5	days	\$850.00	\$4,250.00
18. PICNIC TABLES	6	ea	\$474.00	\$2,844.00
a. Installation	0.5	days	\$637.50	\$318.75
b. Shipping	6	ea	\$64.00	\$384.00
19. SEATING AREAS –				
a. Pervious Surface – 650 sf per nonagon	9	Cu Yd	\$67.50	\$607.50
b. Benches – 8' length (8 in each circle)	16	ea	\$354.00	\$5,664.00
c. Installation	2	days	\$637.50	\$1,275.00
Shipping	16	ea	\$37.00	\$592.00
20. Benches – 8' length	6	ea	\$354.00	\$2,124.00
a. Installation	0.5	days	\$637.50	\$318.75
b. Shipping	6	ea	\$37.00	\$222.00
21. EDUCATION STATIONS (12x12)				
a. Overhead shelter	9	ea	\$4,500.00	\$40,500.00
b. Educational Exhibits	9	ea	\$1,500.00	\$13,500.00
22. EXERCISE STATIONS	1	complete	\$15,156.00	\$15,156.00
a. Installation	3	days	\$1,275.00	\$3,825.00
b. Shipping	1	one job	\$1,500.00	\$1,500.00
23. AMPITHEATER	1	complete	\$0.00	\$0.00
a. Grading and Site Prep	1100	Cu Yd	\$18.00	\$19,800.00
b. Seating – Concrete	27	Cu Yd	\$120.00	\$3,240.00
Seating - Ecoturf	3400	sf	\$6.75	\$22,950.00
c. Stage	380	sf	\$187.50	\$71,250.00
d. Lighting - Bollard Lamps	5	ea	\$1,000.00	\$5,000.00
e. Lighting - to Ampitheater	12	ea	\$1,000.00	\$12,000.00
f. Lighting - Step/ADA lighting	10	ea	\$140.00	\$1,400.00

**ESTIMATED PROJECT COSTS**

g. Concrete walls	27	sf	\$120.00	\$3,240.00
24. OVERLOOKS	264	sf	\$112.50	\$29,700.00
25. OBSERVATION TOWER	2012	sf	\$150.00	\$301,800.00
26. WEATHER STATION	1	complete	\$3,750.00	\$3,750.00
27. SOIL PROFILE BERMS	1	complete	\$7,500.00	\$7,500.00
<b>28. SIGNS</b>				
a. Entrance Sign	1	ea	\$4,500.00	\$4,500.00
b. Directional Signage	6	ea	\$1,000.00	\$6,000.00
c. Educational Signage	10	ea	\$2,400.00	\$24,000.00
d. Caution RAVINE! Signs	10	ea	\$60.00	\$600.00
e. Trail Signage / Blazes	25	ea	\$100.00	\$2,500.00
f. Trail Map Kiosk	2	ea	\$3,600.00	\$7,200.00
g. ADA parking signs	2	ea	\$120.00	\$240.00
h. Ped. xing	2	ea	\$336.00	\$672.00
i. Speed limit	2	ea	\$200.00	\$400.00
<b>29. FUNCTIONAL</b>				
a. Animal Proof Trash/Recycling Bins	15	ea	\$2,826.00	\$42,390.00
Shipping	1	ea	\$3,822.46	\$3,822.46
b. Water Fountain	2	ea	\$8,000.00	\$16,000.00
c. Plant identification markers	500	ea	\$3.00	\$1,500.00
30. NATIVE AMERICAN EXHIBIT	1	complete	\$12,000.00	\$12,000.00
31. COLONIAL AMERICAN EXHIBIT	1	complete	\$35,000.00	\$35,000.00
<b>32. IRRIGATION - COMPLETE</b>				
a. 5 Zone Drip System with Rain Gauge	42790	sf	\$0.75	\$32,092.50
<b>33. LIGHTING AND ELECTRICAL</b>				
a. Parking Lot Area	49320	sf	\$1.13	\$55,485.00
b. Building Area	13200	sf	\$0.75	\$9,900.00
c. Landscape lighting contingency	1	one job	\$15,000.00	\$15,000.00
34. PROJECT ADMINISTRATION – Principal	40	hours	\$100.00	\$4,000.00
35. DELIVERY / MATERIAL PROCUREMENT	1	one job	\$4,000.00	\$4,000.00
<b>CONSTRUCTION SUBTOTAL</b>				<b>\$1,804,624</b>
<b>PLANTING</b>				
1. PRAIRIE/OUTCROP	1	one job	\$200,000.00	\$200,000.00
2. LANDSCAPE/DISPLAY GARDENS	1	one job	\$100,000.00	\$100,000.00
3. TRAILS & ELEMENTAL NODES	50000	sf	\$1.00	\$50,000.00

**ESTIMATED PROJECT COSTS**

4. REFORESTATION/STABILIZATIOIN	50000	sf	\$2.00	\$100,000.00
<b>PLANTING SUBTOTAL</b>				<b>\$450,000.00</b>
<b>BUILDING</b>				
1. ENVIRONMENTAL ED. CENTER				
a. Building	15000	sf	\$200.00	\$3,000,000.00
b. Deck	3500	sf	\$100.00	\$350,000.00
<b>BUILDING SUBTOTAL</b>				<b>\$3,350,000.00</b>
<b>TOTAL PROJECT COST</b>				<b>\$5,604,624</b>