



PROBABLE CONSTRUCTION COST OPINION

Owner: Shrewsbury Township
 Project Title: Miller Park Master Plan Update

Date Prepared 10/26/2016

Park Hub

Item No.	Work Item	No. of Units	Unit Cost	Total Cost
1	Demolition/Site Preparation			\$550
	A. Misc. Site Preparation	1 LS	\$550.00	\$550
2	Earthwork			\$21,242
	A. Strip/Stockpile/Replace Topsoil	3,070 CY	\$4.40	\$13,508
	B. Grading Operations	1,875 CY	\$4.13	\$7,734
3	Parking Area Pavement			\$103,950
	A. Excavation	1235 CY	\$4.40	\$5,434
	B. 1" Wearing Course	3,700 SY	\$7.70	\$28,490
	C. 2" Binder Course	3,700 SY	\$8.80	\$32,560
	D. 8" 2A Coarse Aggregate	3,700 SY	\$11.00	\$40,700
	E. HC Signage and Pavement Striping	4 LS	\$550.00	\$2,200
4	Tot Lot (Ages 2-5)			\$60,492
	A. Play Equipment	1 LS	\$30,000.00	\$30,000
	B. Play Equipment Installation (40% of Equip.)	1 LS	\$12,000.00	\$12,000
	C. Excavation Fine Grade and Compaction	150 CY	\$4.40	\$660
	D. Concrete Curbing Edging	230 LF	\$35.20	\$8,096
	E. Underdrain	130 LF	\$13.20	\$1,716
	F. Safety Surface (Mulch)	2,675 SF	\$1.65	\$4,414
	G. Stone Base and Filter Fabric	298 SY	\$12.10	\$3,606
5	Youth Playground (Ages 5-12)			\$75,419
	A. Play Equipment	1 LS	\$38,000.00	\$38,000
	B. Play Equipment Installation (40% of Equip.)	1 LS	\$15,200.00	\$15,200
	C. Excavation Fine Grade and Compaction	200 CY	\$4.40	\$880
	D. Concrete Curbing Edging	265 LF	\$35.20	\$9,328
	E. Underdrain	110 LF	\$13.20	\$1,452
	F. Safety Surface (Mulch)	3,525 SF	\$1.65	\$5,816
	G. Stone Base and Filter Fabric	392 SY	\$12.10	\$4,743
6	Basketball Courts (2 Courts)			\$103,395
	A. Fine Grading and Compaction	180 CY	\$4.40	\$792
	B. 8" 2A Coarse Aggregate	1,635 SY	\$11.00	\$17,985
	C. 2.5" Binder Course	1,635 SY	\$8.80	\$14,388
	D. 1.5" Wearing Course	1,635 SY	\$7.70	\$12,590
	E. Color Coat & Line Paint	2 CT	\$15,840.00	\$31,680
	F. Chain Link Fence (8' Ht.)	180 LF	\$55.00	\$9,900
	G. Posts/Goals and Nets	4 EA	\$4,015.00	\$16,060
7	Tennis Courts (2 Courts)			\$104,346
	A. Fine Grading and Compaction	160 SY	\$4.40	\$704
	B. 8" 2A Coarse Aggregate	1470 SY	\$11.00	\$16,170
	C. 2.5" Binder Course	1470 SY	\$9.35	\$13,745
	D. 1.5" Wearing Course	1470 SY	\$8.25	\$12,128
	E. Color Coat & Line Paint	2 CT	\$13,200.00	\$26,400
	F. Posts and Nets	2 CT	\$3,685.00	\$7,370
	G. Chain Link Fence, 4' Gate, 8' Dbl. Gate (10' Ht.)	460 LS	\$60.50	\$27,830

8	8' Wide Bituminous Trail (1,235 lf)			\$30,371
	A. Excavation	290 CY	\$4.40	\$1,276
	B. 6" 2A Coarse Aggregate	1,150 SY	\$9.90	\$11,385
	C. 2" Binder Course	1,150 SY	\$8.80	\$10,120
	D. 1" Wearing Course	1,150 SY	\$6.60	\$7,590
9	Concrete			\$126,762
	A. Concrete Pavement @ Drop-off	1,125 SF	\$6.60	\$7,425
	B. Concrete Pavement @ Tennis Courts	300 SF	\$6.60	\$1,980
	C. Concrete Pavement @ Basketball Court	300 SF	\$6.60	\$1,980
	D. Concrete Pavement @ Playground	3,160 SF	\$6.60	\$20,856
	E. Concrete Pavement @ Pavilion/Restroom/Concess	7,068 SF	\$6.60	\$46,649
	E. Concrete Curb @ Parking	1,360 LF	\$35.20	\$47,872
10	Buildings and Structures			\$478,020
	A. Pre-engineered Block Retaining Wall @ Basketball	730 SF	\$44.00	\$32,120
	B. Pre-engineered Block Retaining Wall @ Pavilion	560 SF	\$44.00	\$24,640
	C. Small Picnic Pavilion @ Playground (16x16)	1 EA	\$22,000.00	\$22,000
	D. Pavilion/Restroom/Concession Building (28x56)	1 EA	\$392,000.00	\$392,000
	E. Pavilion Delivery and Installation (30%)	1 EA	\$7,260.00	\$7,260
11	Site Amenities			\$56,549
	A. Benches	13 EA	\$1,540.00	\$20,020
	B. Trash Receptacle	7 EA	\$825.00	\$5,775
	C. Game Tables and Chairs	3 EA	\$2,750.00	\$8,250
	D. Large Bike Rack	1 EA	\$825.00	\$825
	E. Bollards	0 EA	\$220.00	\$0
	F. Grills	2 EA	\$825.00	\$1,650
	G. Kiosk	1 EA	\$2,750.00	\$2,750
	H. Ship and Install Site Amenities (40% of Costs)	1 LS	\$17,278.80	\$17,279
12	Utilities/Amenities			\$67,577
	A. Drinking Fountains	2 EA	\$3,063.50	\$6,127
	B. Site Amenities Installation (x 40%)	1 LS	\$1,225.40	\$1,225
	C. Water Line Extension	500 LF	\$66.00	\$33,000
	D. Water Line Tap	1 LS	\$275.00	\$275
	E. Sanitary Cleanout	1 LS	\$220.00	\$220
	F. Sanitary Line Extension	405 LF	\$66.00	\$26,730
13	Landscaping			\$41,388
	A. Seeding	80,000 SF	\$0.24	\$19,360
	B. Shade Trees	18 EA	\$495.00	\$8,910
	C. Flowering Trees	18 EA	\$385.00	\$6,930
	D. Evergreen Trees	5 EA	\$275.00	\$1,375
	E. Large Shrubs	15 EA	\$137.50	\$2,063
	F. Shrub Allowance	1 LS	\$2,750.00	\$2,750
14	Stormwater Mgt and Erosion Control			\$152,733
	A. Stormwater Management (8%)	1 LS	\$101,822.19	\$101,822
	B. Erosion Control Measures (4%)	1 LS	\$50,911.10	\$50,911
15	Bond Mobilization and Layout			\$171,061
	A. Bond Mobilization and Layout (12%)	1 LS	\$171,061.28	\$171,061
16	Contingency			\$159,657
	A. 10% Contingency	1 LS	\$159,657.19	\$159,657
17	Professional Fees			\$175,623
	A. Design, Engineering and Permitting (10%)	1 LS	\$175,622.91	\$175,623
	Total			\$1,931,852

Cost estimate does not include utility connection fees, utility extensions, location and/or relocation, improvements to existing roads and intersections, electric service or distribution, soil amendments, rock excavation, and construction inspection fees.

YSM is not a construction contractor and therefore probable construction cost opinions are based solely upon our experience with construction. This requires YSM to make a number of assumptions as to actual conditions which will be encountered on the site; the specific decisions of other design professionals engaged; the means and methods of construction the contractor will employ; contractors' techniques in determining prices and market conditions at the time, and other factors over which YSM has no control. Given these assumptions which must be made, YSM states that the above probable construction cost opinion is a fair and reasonable estimate for construction costs.