

**Sturbridge Fields West Lot
 Little League and Multi-Sport Field
 Permitting Documents Cost Estimate - 10/29/15
 Updated 12/14/17**

Item	Unit	Quantity	Unit Price	Total
Excavation/Site Preparation				
1 Clearing and Grubbing	A	7.9	\$15,000.00	\$118,500
2 Haybale	LF	2800	\$4.00	\$11,200
3 Tree Removal Under 24 Inches	EA	125	\$900.00	\$112,500
4 Tree Removal Over 24 Inches	EA	5	\$1,800.00	\$9,000
5 Class A Rock Excavation (Ledge)*†‡	CY	20000	\$100.00	\$2,000,000
6 Earth Excavation for Fields	CY	4000	\$28.00	\$112,000
7 Backfill Existing Materials	CY	38000	\$28.00	\$1,064,000
8 Fine Grading, Compacting and Finishing	SY	38,300	\$4.00	\$153,200
9 Trench Excavation	CY	1,500	\$30.00	\$45,000
			Subtotal	\$3,625,400
Drainage and Utilities				
10 12" Drain HDPE	LF	703	\$50.00	\$35,150
11 Manholes	EA	5	\$3,800.00	\$19,000
12 Frame and Grate/Cover	EA	7	\$750.00	\$5,250
13 Underground Drainage Storage	CF	7163	\$8.00	\$57,304
14 Crushed Stone	TON	300	\$40.00	\$12,000
15 Underground Electrical Conduit & Wires	LF	500	\$30.00	\$15,000
16 Utility Pole	EA	5	\$6,000.00	\$30,000
17 Overhead Wires	LF	1000	\$5.00	\$5,000
18 2" Steel Water Pipe	LF	60	\$62.00	\$3,720
19 Water Shut Off	EA	1	\$1,500.00	\$1,500
20 Spigot	EA	1	\$500.00	\$500
21 Well Installation for Irrigation	LS	1	\$30,000.00	\$30,000
			Subtotal	\$214,424
Finishing				
22 Crushed Stone	TON	2500	\$40.00	\$100,000
23 Gravel Borrow	CY	1800	\$35.00	\$63,000
24 Hot Mixed Asphalt	TON	20	\$175.00	\$3,500
25 Dense Graded Crushed Stone (Paving)	CY	20	\$65.00	\$1,300
26 Stonedust Path (Gravel & Dense Graded)	SF	6400	\$15.40	\$98,560
27 Block retaining wall	SF	1500	\$55.00	\$82,500
28 Curb Stops	EA	99	\$100.00	\$9,900
29 Guard Rail	LF	260	\$22.00	\$5,720
30 Guard Posts	EA	30	\$85.00	\$2,550
31 Chain link fence (6' High) top of wall	LF	2784	\$30.00	\$83,520
			Subtotal	\$450,550

Site Construction

32 Little League Baseball & Multi-Purpose Field**	LS	1	\$320,000.00	\$320,000
33 Lights for Little League and Multi-Sport Fields	LS	1	\$600,000.00	\$600,000
34 Lights for Basketball 3 - Poles	EA	3	\$5,500.00	\$16,500
35 Lights for Parking	EA	9	\$5,500.00	\$49,500
36 Basketball Courts	LS	1	\$88,000.00	\$88,000
37 Bocce Ball	LS	1	\$22,550.00	\$22,550
38 Concession Stands	LS	1	\$82,500.00	\$82,500
39 Stands	EA	9	\$2,500.00	\$22,500
40 Landscaping	LS	1	\$55,000.00	\$55,000
41 Playground	LS	1	\$110,000.00	\$110,000
42 Turtle Protection Plan	LS	1	\$5,000.00	\$5,000
			Subtotal	\$1,371,550

	Construction Subtotal	\$5,661,924
3%	Mobilization/General Conditions	\$169,858
15%	Construction Contingency	\$849,289
	Construction Total	\$6,681,070

Notes:

* The existing site contains large areas of ledge outcrop. Investigation pits were conducted in the vicinity of the ledge to estimate the elevation and quantity of ledge beneath the surface at the site. Actual amounts of ledge in field may vary in locations where investigation pits were not conducted.

† Costs based on recent ledge removal costs in Massachusetts actual costs may vary dependent on contractor's ability to utilize crushed ledge at off site locations.

‡ Our estimate contains a rather high value for the removal of rock ledge that exists in portions of the site. The high value in our estimate is based on weighted averages for rock ledge excavation (blasting) and removal off site from projects in central Massachusetts undertaken in the last 12 months by MassDOT. Because this is such a large value, we obtained a quotation from a blasting company who looked at the project site. His figure for blasting only was \$217,000. Applying MassDOT pricing to the excavation and removal of the popped rock, we believe this work might cost \$600,000. Therefore, it may be possible for the rock ledge value in our estimate to be reduced by as much as half of the value shown. We are reluctant to use this smaller value until the project is closer to seeking actual bids. There does not appear to be any spot on the project to accept the crushed results of the blasting process. If the Town has a location nearby that could accept this material, a large part of the lower removal cost could also be reduced.

** Fields' site construction estimate includes: underdrain system, backstops, skinned infield, bases, netting, etc. (no irrigation)

Key

LF Linear Feet	CY Cubic Yard
SF Square Feet	DAY Days
CF Cubic Feet	EA Each
SY Square Yard	LS Lump Sum