

Norton Public Schools Master Plan
Option G Schematic Cost Estimate - 11/05/2019
Gale JN: 718090



8-Lane Track and Synthetic Turf Field Construction	\$	2,812,068
Synthetic Turf MPR, Softball, Baseball Construction	\$	4,430,446
Synthetic Turf MPR "Pit Field" Construction	\$	1,083,485
Tennis Courts Construction	\$	341,500
	Total	\$ 8,667,499

Norton Public Schools Master Plan						
Option G Schematic Cost Estimate- Synthetic Turf Field and 8-Lane Track Construction - 11/05/2019						
Gale JN: 718090						
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	TOTAL COST
1	GENERAL CONDITIONS					\$ 264,261.59
a	Bonds and Insurance (2 %)	LS	1	\$ 42,376.93	\$ 42,376.93	
b	General Conditions (10 %)	LS	1	\$ 211,884.66	\$ 211,884.66	
c	Mobilization / Demobilization	LS	1	\$ 10,000.00	\$ 10,000.00	
2	EROSION CONTROL / SITE PREPARATION / DEMOLITION					\$ 15,250.00
a	Silt Fence	LF	750	\$ 5.00	\$ 3,750.00	
b	Temporary Construction Entrance (Assume 8" of Stone)	LS	1	\$ 1,500.00	\$ 1,500.00	
c	Temporary Construction Fencing	LS	1	\$ 10,000.00	\$ 10,000.00	
3	Track Reconstruction					\$ 464,202.70
a	Pulverize Pavement	CY	527	\$ 8.00	\$ 4,214.32	42,670 SF
b	Strip and Haul Unscreened Topsoil	CY	91	\$ 16.00	\$ 1,453.63	Area of proposed track
c	Misc. Demolition	LS	1	\$ 10,000.00	\$ 10,000.00	40,217 SF
d	Earthwork (Cut & Fill)	LS	1	\$ 20,000.00	\$ 20,000.00	Area of existing track
e	Prepare sub-base, shape and compact	SY	4741	\$ 3.00	\$ 14,223.33	2,453 SF
f	Aggregate Base Course (Dense Grade)	CY	1317	\$ 55.00	\$ 72,433.64	Difference in area
g	Pavement (1.5" Binder course and 1.5" Wearing Course)	SY	4741	\$ 25.00	\$ 118,527.78	
h	Track surfacing (BSS-100 Urethane)	SY	4741	\$ 45.00	\$ 213,350.00	
i	Track Lines / Markings	LS	1	\$ 10,000.00	\$ 10,000.00	
4	Track D-Area Construction					\$ 244,380.65
a	Strip and Haul Unscreened Topsoil	CY	742	\$ 16.00	\$ 11,876.74	20,042 SF
b	Prepare sub-base, shape and compact	SY	2227	\$ 2.00	\$ 4,453.78	Area of proposed D-Areas
c	Aggregate Base Course (Dense Grade, 10")	TON	928	\$ 35.00	\$ 32,475.46	
d	Pavement (1.5" Binder course and 1.5" Wearing Course)	SY	2227	\$ 25.00	\$ 55,672.22	
e	Track surfacing (BSS-100 Urethane)	SY	2227	\$ 41.00	\$ 91,302.44	
f	Cast in place Concrete Curb with ACO 2000	LF	516	\$ 70.00	\$ 36,120.00	
g	Cast in place Concrete Curb	LF	390	\$ 32.00	\$ 12,480.00	
5	Synthetic MPR Field (Within Track)					\$ 872,434.31
a	Strip and Haul Unscreened Topsoil (12" assumed)	CY	2964	\$ 16.00	\$ 47,423.41	80,027 SF
b	Prepare sub-base, shape and compact	SY	8892	\$ 2.25	\$ 20,006.75	Area of proposed field
c	Crushed Stone Base under Field (10")	TON	3705	\$ 35.00	\$ 129,673.38	
d	Cast in place Concrete Curb with ACO 4000	LF	780	\$ 75.00	\$ 58,500.00	
e	Geotextile Separation Layer	SY	8892	\$ 2.00	\$ 17,783.78	
f	12" Perf. HDPE	LF	1140	\$ 24.00	\$ 27,360.00	
g	Flat panel drains	LF	3000	\$ 4.00	\$ 12,000.00	
h	Cleanouts (Nyloplast CB's)	EA	4	\$ 1,800.00	\$ 7,200.00	
i	Outlet Control Structures	EA	1	\$ 3,500.00	\$ 3,500.00	
j	Infilled Synthetic Turf Product	SF	80027	\$ 3.00	\$ 240,081.00	
k	Infilled Synthetic Turf Installation	SF	80027	\$ 1.00	\$ 80,027.00	Crumb rubber assumed. Alternative infill approx. +\$300k
l	Shock Pad	SF	80027	\$ 1.00	\$ 80,027.00	
m	Turf Striping	EA	1	\$ 7,000.00	\$ 7,000.00	
n	4' High Perimeter Fence (around track)	LF	1511	\$ 32.00	\$ 48,352.00	
o	4' High Pedestrian Gate in 4' CLF	EA	4	\$ 600.00	\$ 2,400.00	
p	12' Wide CLF Gates in 4' CLF	EA	2	\$ 1,200.00	\$ 2,400.00	
q	16' Slide Gate	EA	1	\$ 1,700.00	\$ 1,700.00	
r	16' Safety Netting	LF	240	\$ 100.00	\$ 24,000.00	
s	MP Field Scoreboard (at track)	LS	1	\$ 35,000.00	\$ 35,000.00	
t	Goalposts	LS	1	\$ 24,000.00	\$ 24,000.00	
u	Players Benches	PR	2	\$ 2,000.00	\$ 4,000.00	
6	Athletic Field Lighting					\$435,000.00
a	Musco Lighting	EA	4	\$90,000.00	\$360,000.00	
b	MUSCO Athletic Field Lighting Electrical	LS	1	\$75,000.00	\$75,000.00	
7	Walkways					\$ 87,578.89
a	Prepare sub-base, shape and compact	SY	289	\$ 1.50	\$ 433.33	7,800 SF
b	Gravel Base	TON	361	\$ 35.00	\$ 12,638.89	Area of proposed walkways
c	Pavement (1.5" Binder Course, 1.5" Wearing Course)	SY	867	\$ 28.00	\$ 24,266.67	
d	4' High Perimeter Fence (around walkway)	LF	1570	\$ 32.00	\$ 50,240.00	
SUBTOTAL:						\$ 2,383,108.14
SOFT COSTS (8%):						\$ 190,648.65
CONTINGENCY (10 %):						\$ 238,310.81
TOTAL:						\$ 2,812,067.61

Norton Public Schools Master Plan						
Option G Schematic Cost Estimate- Synthetic Turf MPR, Baseball, Softball Field Construction - 11/05/2019						
Gale JN: 718090						
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	TOTAL COST
1	GENERAL CONDITIONS					\$ 395,371.27
a	Bonds and Insurance (2 %)	LS	1	\$ 64,228.55	\$ 64,228.55	
b	General Conditions (10 %)	LS	1	\$ 321,142.73	\$ 321,142.73	
c	Mobilization / Demobilization	LS	1	\$ 10,000.00	\$ 10,000.00	
2	EROSION CONTROL / SITE PREPARATION / DEMOLITION					\$ 16,500.00
a	Silt Fence	LF	1,000	\$ 5.00	\$ 5,000.00	
b	Temporary Construction Entrance (Assume 8" of Stone)	LS	1	\$ 1,500.00	\$ 1,500.00	
c	Temporary Construction Fencing	LS	1	\$ 10,000.00	\$ 10,000.00	
3	Synthetic MPR Field					\$ 1,915,187.25
a	Strip and Haul Unscreened Topsoil (12" assumed)	CY	8052	\$ 12.00	\$ 96,628.00	217,413 SF
b	Prepare sub-base, shape and compact	SY	24157	\$ 2.25	\$ 54,353.25	Area of proposed field
c	Crushed Stone Base under Field (10")	TON	10,065	\$ 36.00	\$ 362,355.00	
d	Cast in place Concrete Curb	LF	2011	\$ 32.00	\$ 64,352.00	
e	Geotextile Separation Layer	SY	24157	\$ 2.00	\$ 48,314.00	
f	12" Perf. HDPE	LF	1170	\$ 24.00	\$ 28,080.00	
g	Flat panel drains	LF	3240	\$ 4.00	\$ 12,960.00	
h	Cleanouts (Nyloplast CB's)	EA	6	\$ 1,800.00	\$ 10,800.00	
i	Outlet Control Structures	EA	1	\$ 3,500.00	\$ 3,500.00	
j	Infilled Synthetic Turf Product	SF	217413	\$ 3.00	\$ 652,239.00	Crumb rubber assumed. Alternative infill approx. +\$300k
k	Infilled Synthetic Turf Installation	SF	217413	\$ 1.00	\$ 217,413.00	
l	Shock Pad	SF	217413	\$ 1.00	\$ 217,413.00	
m	Turf Striping	EA	3	\$ 7,000.00	\$ 21,000.00	Soccer, Men's Lacrosse, Women's Lacrosse
n	4' High Perimeter Fence	LF	2062	\$ 35.00	\$ 72,170.00	
o	4' High Pedestrian Gate in 4' CLF	EA	4	\$ 600.00	\$ 2,400.00	
p	12' Wide CLF Gates in 4' CLF	EA	2	\$ 1,200.00	\$ 2,400.00	
q	16' Slide Gate	EA	1	\$ 1,700.00	\$ 1,700.00	
r	MP Field Scoreboard	LS	1	\$ 35,000.00	\$ 35,000.00	
s	Soccer Goals (with wheel kit)	EA	2	\$ 2,675.00	\$ 5,350.00	
t	Lacrosse Goals (with wheel kit)	EA	2	\$ 1,380.00	\$ 2,760.00	
u	Players Benches	PR	2	\$ 2,000.00	\$ 4,000.00	
4	Softball Fixtures					\$ 123,860.00
a	25' Backstop	LS	1	\$ 20,000.00	\$ 20,000.00	
b	20' Safety Netting	LF	326	\$ 60.00	\$ 19,560.00	
c	Temporary Outfield Fence	LF	270	\$ 90.00	\$ 24,300.00	
d	Dugouts	EA	2	\$ 20,000.00	\$ 40,000.00	
e	15' Foul Poles	Set	1	\$ 5,000.00	\$ 5,000.00	
f	55'x15' Single Batting Tunnel/Bullpen	EA	1	\$ 15,000.00	\$ 15,000.00	
5	Baseball Fixtures					\$ 195,880.00
a	Baseball 30' Backstop	LS	1	\$ 30,000.00	\$ 30,000.00	
b	Dugout	EA	2	\$ 25,000.00	\$ 50,000.00	
c	20' Foul Pole with wing	EA	2	\$ 970.00	\$ 1,940.00	
d	Safety Netting	LF	520	\$ 60.00	\$ 31,200.00	
e	Temporary Outfield Fence	LF	386	\$ 90.00	\$ 34,740.00	
f	Portable Pitchers Mound	LS	1	\$ 18,000.00	\$ 18,000.00	
g	75'x15' Double Batting Tunnel/Bullpen	EA	1	\$ 30,000.00	\$ 30,000.00	
6	Athletic Field Lighting					\$960,000.00
a	Musco Lighting	EA	9	\$90,000.00	\$810,000.00	
b	MUSCO Athletic Field Lighting Electrical	LS	1	\$150,000.00	\$150,000.00	
7	Bleacher Seating					\$ 56,820.00
a	Concrete Pad	SF	966	\$ 20.00	\$ 19,320.00	
b	Portable Bleachers (Track & Synthetic Turf Field)	SEAT	150	\$ 250.00	\$ 37,500.00	
8	Walkways					\$ 90,996.69
a	Strip and Haul Unscreened Topsoil (10" assumed)	CY	545	\$ 12.00	\$ 6,539.63	17,657 SF
b	Prepare sub-base, shape and compact	SY	609	\$ 1.50	\$ 913.29	Area accounts for all walkways,
c	Gravel Base	TON	817	\$ 35.00	\$ 28,610.88	
d	Pavement (1.5" Binder Course, 1.5" Wearing Course)	SY	1,962	\$ 28.00	\$ 54,932.89	
						SUBTOTAL: \$ 3,754,615.21
						SOFT COSTS (8%): \$ 300,369.22
						CONTINGENCY (10%): \$ 375,461.52
						TOTAL: \$ 4,430,445.95

Norton Public Schools Master Plan							
Option G Schematic Cost Estimate- Synthetic Turf MPR "Pit Field" Construction - 11/05/2019							
Gale JN: 718090							
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	TOTAL COST	REMARKS
1	GENERAL CONDITIONS					\$ 143,022.27	
a	Bonds and Insurance (2 %)	LS	1	\$ 15,503.71	\$ 15,503.71		
b	General Conditions (10 %)	LS	1	\$ 77,518.56	\$ 77,518.56		
c	Mobilization / Demobilization	LS	1	\$ 50,000.00	\$ 50,000.00		
2	EROSION CONTROL / SITE PREPARATION / DEMOLITION					\$ 10,000.00	
a	Silt Fence	LF	1,000	\$ 5.00	\$ 5,000.00		
c	Temporary Construction Fencing	LS	1	\$ 5,000.00	\$ 5,000.00		
3	Synthetic MPR Field					\$ 765,185.56	
a	Silt Fence	LF	1,000	\$ 5.00	\$ 5,000.00		79,800 SF
b	Strip and Haul Unscreened Topsoil (10" assumed)	CY	2463	\$ 12.00	\$ 29,555.56		Area of proposed field
c	Earthwork (Cut & Fill)	LS	1	\$ 20,000.00	\$ 20,000.00		
d	Prepare sub-base, shape and compact	SY	8867	\$ 2.25	\$ 19,950.00		
e	Crushed Stone Base under Field (10")	TON	3,694	\$ 36.00	\$ 133,000.00		
f	Cast in place Concrete Curb	LF	1180	\$ 32.00	\$ 37,760.00		
g	Cast in place Concrete Curb with ACO 4000	LF	0	\$ 75.00	\$ -		
h	Geotextile Separation Layer	SY	8867	\$ 3.00	\$ 26,600.00		
i	12" Perf. HDPE	LF	1140	\$ 24.00	\$ 27,360.00		
j	Flat panel drains	LF	3240	\$ 4.00	\$ 12,960.00		
k	Cleanouts (Nyloplast CB's)	EA	4	\$ 1,800.00	\$ 7,200.00		
l	Outlet Control Structures	EA	1	\$ 3,500.00	\$ 3,500.00		
m	Infilled Synthetic Turf Product	SF	79800	\$ 3.00	\$ 239,400.00		
n	Infilled Synthetic Turf Installation	SF	79800	\$ 1.00	\$ 79,800.00		
o	Shock Pad	SF	79800	\$ 1.00	\$ 79,800.00		
p	Turf Striping	EA	1	\$ 7,000.00	\$ 7,000.00		
q	4' High Perimeter Fence	LF	1180	\$ 35.00	\$ 41,300.00		
						SUBTOTAL: \$ 918,207.82	
						SOFT COSTS (8%): \$ 73,456.63	
						CONTINGENCY (10%): \$ 91,820.78	
						TOTAL: \$ 1,083,485.23	



Norton Public Schools Master Plan							
Option G Schematic Cost Estimate- Tennis Court Construction -11/05/2019							
Gale JN: 718090							
ITEM	DESCRIPTION	UNIT	QUANTITY	UNIT COST	COST	TOTAL COST	REMARKS
1	GENERAL CONDITIONS					\$ 38,200.00	
a	Bonds and Insurance (2 %)	LS	1	\$ 4,700.00	\$ 4,700.00		
b	General Conditions (10 %)	LS	1	\$ 23,500.00	\$ 23,500.00		
c	Mobilization / Demobilization	LS	1	\$ 10,000.00	\$ 10,000.00		
2	EROSION CONTROL / SITE PREPARATION / DEMOLITION					\$ 10,000.00	
a	Silt Fence	LF	1,000	\$ 5.00	\$ 5,000.00		
c	Temporary Construction Fencing	LS	1	\$ 5,000.00	\$ 5,000.00		
3	Tennis Courts					\$ 225,000.00	
a	Tennis Courts	EA	5	\$ 45,000.00	\$ 225,000.00		
						SUBTOTAL: \$ 273,200.00	
						SOFT COSTS (10%): \$ 27,320.00	
						CONTINGENCY (15 %): \$ 40,980.00	
						TOTAL: \$ 341,500.00	