

Norton Public Schools Master Plan
Option B Schematic Cost Estimate - 07/31/2019
Gale JN: 718090



| | | |
|---|-------|--------------|
| Track and Field Reconstruction | \$ | 2,245,261 |
| Synthetic Turf MPR, Softball, Baseball Construction | \$ | 4,159,898 |
| Amenities Building & Covered Pavilion Construction | \$ | 988,978 |
| Tennis Courts Construction | \$ | 446,500 |
| Additional Parking | \$ | 361,371 |
| Synthetic Turf "Pit Field" Reconstruction | \$ | 1,083,485 |
| | | |
| | Total | \$ 9,285,493 |

| Norton Public Schools Master Plan | | | | | | | |
|--|--|------|----------|---------------|---------------|------------------------|--------------------------|
| Option B Schematic Cost Estimate- Natural Turf Field and Track Reconstruction - 07/31/2019 | | | | | | | |
| Gale JN: 718090 | | | | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | UNIT COST | COST | TOTAL COST | REMARKS |
| 1 | GENERAL CONDITIONS | | | | | \$ 212,796.05 | |
| a | Bonds and Insurance (2 %) | LS | 1 | \$ 33,799.34 | \$ 33,799.34 | | |
| b | General Conditions (10 %) | LS | 1 | \$ 168,996.71 | \$ 168,996.71 | | |
| 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 | | | | | \$ 221,085.00 | |
| a | Misc. Demolition | LS | 1 | \$ 10,000.00 | \$ 10,000.00 | | 40,217 SF |
| b | Track surfacing (BSS-100 Urethane) | SY | 4469 | \$ 45.00 | \$ 201,085.00 | | |
| c | 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 | | |
| 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 | Natural MPR Field (Within Track) | | | | | \$ 578,393.87 | |
| 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 | | |
| c | Gravel Base under Field (4") | TON | 1482 | \$ 35.00 | \$ 51,869.35 | | |
| d | Place and amend root zone materials (8") | CY | 1976 | \$ 27.00 | \$ 53,351.33 | | |
| 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 | Irrigation- Tap to existing main | LS | 1 | \$ 6,000.00 | \$ 6,000.00 | | |
| k | Irrigation System and controller | Zone | 16 | \$ 2,500.00 | \$ 40,000.00 | | |
| l | Fine Grade and Sod | SF | 80,027 | \$ 1.75 | \$ 140,047.25 | | |
| m | Turf Establishment Requirements | LS | 1 | \$ 10,000.00 | \$ 10,000.00 | | |
| 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 | Bleacher Seating | | | | | \$ 94,700.00 | |
| a | Concrete Pad | SF | 1,610 | \$ 20.00 | \$ 32,200.00 | | |
| b | Portable Bleachers (Track & Synthetic Turf Field) | SEAT | 250 | \$ 250.00 | \$ 62,500.00 | | |
| 8 | Walkways | | | | | \$ 101,157.59 | |
| a | Prepare sub-base, shape and compact | SY | 439 | \$ 1.50 | \$ 657.88 | | 12,719 SF |
| b | Gravel Base | TON | 589 | \$ 35.00 | \$ 20,609.49 | | 14,329 SF |
| c | Pavement (1.5" Binder Course, 1.5" Wearing Course) | SY | 1,413 | \$ 28.00 | \$ 39,570.22 | | (walkway + bleacher pad) |
| d | 4' High Perimeter Fence (around walkway) | LF | 1260 | \$ 32.00 | \$ 40,320.00 | | |
| SUBTOTAL: | | | | | | \$ 1,902,763.16 | |
| SOFT COSTS (8%): | | | | | | \$ 152,221.05 | |
| CONTINGENCY (10 %): | | | | | | \$ 190,276.32 | |
| TOTAL: | | | | | | \$ 2,245,260.53 | |

| Norton Public Schools Master Plan | | | | | | | |
|--|--|------|----------|---------------|---------------|---|--|
| Option B Schematic Cost Estimate- Synthetic Turf MPR, Baseball, Softball Field Construction - 07/31/2019 | | | | | | | |
| Gale JN: 718090 | | | | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | UNIT COST | COST | TOTAL COST | REMARKS |
| 1 | GENERAL CONDITIONS | | | | | \$ 372,331.42 | |
| a | Bonds and Insurance (2 %) | LS | 1 | \$ 60,388.57 | \$ 60,388.57 | | |
| b | General Conditions (10 %) | LS | 1 | \$ 301,942.85 | \$ 301,942.85 | | |
| 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 | | | | | \$ 1,792,668.50 | |
| a | Strip and Haul Unscreened Topsoil (12" assumed) | CY | 7479 | \$ 12.00 | \$ 89,746.67 | | 201,930 SF |
| b | Prepare sub-base, shape and compact | SY | 22437 | \$ 2.25 | \$ 50,482.50 | | |
| c | Crushed Stone Base under Field (10") | TON | 9,349 | \$ 36.00 | \$ 336,550.00 | | |
| d | Cast in place Concrete Curb | LF | 2003 | \$ 32.00 | \$ 64,096.00 | | |
| e | Geotextile Separation Layer | SY | 22437 | \$ 2.00 | \$ 44,873.33 | | |
| f | 12" Perf. HDPE | LF | 1160 | \$ 24.00 | \$ 27,840.00 | | |
| 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 | 201930 | \$ 3.00 | \$ 605,790.00 | | Crumb rubber assumed. Alternative infill approx. +\$300k |
| k | Infilled Synthetic Turf Installation | SF | 201930 | \$ 1.00 | \$ 201,930.00 | | |
| l | Shock Pad | SF | 201930 | \$ 1.00 | \$ 201,930.00 | | |
| 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 nets | LS | 1 | \$ 3,500.00 | \$ 3,500.00 | | |
| t | Players Benches | PR | 2 | \$ 2,000.00 | \$ 4,000.00 | | |
| 4 | Softball Fixtures | | | | | \$ 108,860.00 | |
| 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 | | |
| 5 | Baseball Fixtures | | | | | \$ 141,400.00 | |
| b | Dugout | EA | 2 | \$ 25,000.00 | \$ 50,000.00 | | |
| d | 20' Foul Pole with wing | EA | 2 | \$ 970.00 | \$ 1,940.00 | | |
| c | Safety Netting | LF | 612 | \$ 60.00 | \$ 36,720.00 | | |
| d | Temporary Outfield Fence | LF | 386 | \$ 90.00 | \$ 34,740.00 | | |
| e | Portable Pitchers Mound | LS | 1 | \$ 18,000.00 | \$ 18,000.00 | | |
| 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 | | | | | \$ 76,757.36 | |
| a | Strip and Haul Unscreened Topsoil (10" assumed) | CY | 460 | \$ 12.00 | \$ 5,516.30 | | 14,894 SF |
| b | Prepare sub-base, shape and compact | SY | 514 | \$ 1.50 | \$ 770.38 | | 15,860 SF |
| c | Gravel Base | TON | 690 | \$ 35.00 | \$ 24,133.80 | | (walkway + bleacher pad) |
| d | Pavement (1.5" Binder Course, 1.5" Wearing Course) | SY | 1,655 | \$ 28.00 | \$ 46,336.89 | | |
| | | | | | | SUBTOTAL: \$ 3,525,337.28 | |
| | | | | | | SOFT COSTS (8%): \$ 282,026.98 | |
| | | | | | | CONTINGENCY (10%): \$ 352,533.73 | |
| | | | | | | TOTAL: \$ 4,159,897.99 | |

| Norton Public Schools Master Plan | | | | | | | |
|---|--------------------------------------|------|----------|--------------|-------------------------|----------------------|---------|
| Option B Schematic Cost Estimate- Amenities Building & Covered Pavilion Construction - 07/31/2019 | | | | | | | |
| Gale JN: 718090 | | | | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | UNIT COST | COST | TOTAL COST | REMARKS |
| 1 | GENERAL CONDITIONS | | | | | \$ 92,363.20 | |
| a | Bonds and Insurance (2 %) | LS | 1 | \$ 13,727.20 | \$ 13,727.20 | | |
| b | General Conditions (10 %) | LS | 1 | \$ 68,636.00 | \$ 68,636.00 | | |
| c | Mobilization / Demobilization | LS | 1 | \$ 10,000.00 | \$ 10,000.00 | | |
| 2 | Concessions Building | | | | | \$ 600,000.00 | |
| a | Cost per SF | SF | 1,500 | \$ 400.00 | \$ 600,000.00 | | |
| 3 | Covered Pavilion/Picnic Area | | | | | \$ 51,360.00 | |
| a | Covered Pavilion Structure | LS | 1 | \$ 50,000.00 | \$ 50,000.00 | | |
| b | Folding Picnic Table | EA | 8 | \$ 170.00 | \$ 1,360.00 | | |
| 4 | SITE WALKWAYS/LANDSCAPING | | | | | \$ 10,000.00 | |
| a | Trees & Shrubs | LS | 1 | \$ 10,000.00 | \$ 10,000.00 | | |
| 5 | UTILITIES | | | | | \$ 25,000.00 | |
| a | Water Line w/ Quick Connects | LS | 1 | \$ 5,000.00 | \$ 5,000.00 | | |
| b | Electrical (misc. Walkways, Parking) | LS | 1 | \$ 20,000.00 | \$ 20,000.00 | | |
| | | | | | SUBTOTAL: | \$ 778,723.20 | |
| | | | | | SOFT COSTS (12%) | \$ 93,446.78 | |



Norton Public Schools Master Plan

Option B Schematic Cost Estimate- Tennis Court Construction - 07/31/2019

Gale JN: 718090

| ITEM | DESCRIPTION | UNIT | QUANTITY | UNIT COST | COST | TOTAL COST | REMARKS |
|----------|---|------|----------|--------------|---------------|---|---------|
| 1 | GENERAL CONDITIONS | | | | | \$ 47,200.00 | |
| a | Bonds and Insurance (2 %) | LS | 1 | \$ 6,200.00 | \$ 6,200.00 | | |
| b | General Conditions (10 %) | LS | 1 | \$ 31,000.00 | \$ 31,000.00 | | |
| c | Mobilization / Demobilization | LS | 1 | \$ 10,000.00 | \$ 10,000.00 | | |
| 2 | EROSION CONTROL / SITE PREPARATION / DEMOLTION | | | | | \$ 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 | | | | | \$ 300,000.00 | |
| a | Tennis Courts | EA | 5 | \$ 60,000.00 | \$ 300,000.00 | | |
| | | | | | | | |
| | | | | | | SUBTOTAL: \$ 357,200.00 | |
| | | | | | | SOFT COSTS (10%): \$ 35,720.00 | |
| | | | | | | CONTINGENCY (15 %): \$ 53,580.00 | |
| | | | | | | TOTAL: \$ 446,500.00 | |

| Norton Public Schools Master Plan | | | | | | | |
|--|--|------|----------|--------------|----------------------------|----------------------|---------|
| Option B Schematic Cost Estimate- Additional Parking Construction - 07/31/2019 | | | | | | | |
| Gale JN: 718090 | | | | | | | |
| ITEM | DESCRIPTION | UNIT | QUANTITY | UNIT COST | COST | TOTAL COST | REMARKS |
| 1 | GENERAL CONDITIONS | | | | | \$ 39,903.20 | |
| a | Bonds and Insurance (2 %) | LS | 1 | \$ 4,983.87 | \$ 4,983.87 | | |
| b | General Conditions (10 %) | LS | 1 | \$ 24,919.33 | \$ 24,919.33 | | |
| 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 | Parking/Roadway | | | | | \$ 239,193.33 | |
| a | Parking | EA | 80 | \$ 2,800.00 | \$ 224,000.00 | | |
| b | Dense Grade Base under Roadways (12") | TON | 143 | \$ 36.00 | \$ 5,160.00 | | |
| c | Roadways | SY | 287 | \$ 35.00 | \$ 10,033.33 | | |
| | | | | | SUBTOTAL: | \$ 289,096.53 | |
| | | | | | SOFT COSTS (10%): | \$ 28,909.65 | |
| | | | | | CONTINGENCY (15 %): | \$ 43,364.48 | |
| | | | | | TOTAL: | \$ 361,370.67 | |



| Norton Public Schools Master Plan | | | | | | | |
|---|--|------|----------|--------------|---------------|--|--|
| Option B Schematic Cost Estimate- Pit Field Reconstruction - 07/31/2019 | | | | | | | |
| 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 | | |
| b | Strip and Haul Unscreened Topsoil (10" assumed) | CY | 2463 | \$ 12.00 | \$ 29,555.56 | | 79,800 SF |
| 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 | | Crumb rubber assumed. Alternative infill approx. +\$300k |
| 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 | |