

PROJECT SCOPE & BUDGET
COST ESTIMATE - DESIGNER

6A.2.3 - 04

DESIGN DEVELOPMENT COST ESTIMATE – **REVISION 3**

18 AUGUST 2022

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL

WAKEFIELD, MA



NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

PROJECT DETAILS

Basis of Estimate

This estimate has been prepared at the request of DRA Architecture and is to provide a Design Development Cost Estimate of construction cost for the proposed Northeast Metropolitan Regional Technical High School located in Wakefield, Massachusetts.

The estimate is based upon measured quantities and built-up rates prepared from the Design Development submittal package dated June 23, 2022, prepared by DRA Architecture.

Where information was insufficient, assumptions and allowances were made based wherever possible on discussions with the architect and engineers.

It is understood that the project will be procured using a CM/GC procurement arrangement where the CM/GC will be required to receive a minimum of three subcontract bids for each trade. It has been assumed that the CM/GC will only be allowed to self-perform work for the project under competitive bidding circumstances.

The estimate is based on the assumption that the CM/GC and all subcontractors will be required to pay prevailing wage rates.

Unit pricing is based on August 2022 costs. RLB recommends construction cost escalation should range from 8.0% to 9.0%, however escalation allowance has been coordinated with the Construction Manager and RLB carried 5.65% construction escalation in the estimate and assumes a Q1 2023 construction start. A Design / Estimating contingency at 4.0% and a Construction Manager's Contingency at 2.5% has been included in the estimate.

Items Specifically Included

- . Please refer to Estimate Detail.

Items Specifically Excluded

- . Costs associated out of hours work unless noted otherwise.
- . Furniture, Fittings and Equipment (FF&E).
- . Murals and works of art.
- . Mock-ups.
- . Work outside the site boundaries unless noted otherwise.
- . Special testing & inspections
- . Utility tap fees and charges
- . Permits & plan review fees
- . Owner's / Construction contingency.
- . Land and legal costs.
- . Architectural, Engineering and other professional fees.
- . Geotechnical, traffic and all other studies.
- . Items marked as "Excl." in the estimate.
- . Escalation beyond mid-point of Construction

Documents

- . Please refer to Basis of Estimate.

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL

DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3



LOCATION SUMMARY

GFAR: Gross Floor Area
Rates Current At August 2022

Ref	Location	GFAR SF	GFAR USD/SF	Total Cost USD
BD	BASE DESIGN			
A	Building			
A1	New School Building	380,570.00	392.43	149,348,302
A2A	Locker Building Elevator Works	6,060.00	140.08	848,865
A3	Maintenance Building	2,040.00	257.64	525,579
A4A	Concessions/Restrooms Foundation Works	1,730.00	58.64	101,448
	A - Building	390,400.00	386.33	150,824,194
B	Sitework			41,433,671
	BD - BASE DESIGN	390,400.0	492.46	192,257,865
ESTIMATED NET COST		390,400	492.46	192,257,865
MARGINS & ADJUSTMENTS				
	Design & Estimating Contingency	4 %		7,690,313
	Escalation Allowance up to mid-point of Construction	5.65 %		11,297,073
	Sub-contractor Bonds	1.2 %		2,534,944
	General Liability Insurance (per CM Pricing Exhibit 1)			2,410,793
	Savings for Utilizing CCIP			-600,000
	Builder's Risk Insurance (per CM Pricing Exhibit 1)			365,272
	Payment & Performance Bond (per CM Pricing Exhibit 1)			1,850,710
	General Conditions (per CM Pricing Exhibit 1)			9,687,506
	General Requirements (per CM Pricing Exhibit 1)			6,044,059
	Allowance for Additional Requirements not included in CM Pricing Exhibit 1			1,000,000
	CM Construction Contingency (per CM Pricing Exhibit 1)	2.5 %		5,460,175
	CM Fee (per CM Pricing Exhibit 1)			4,205,160
ESTIMATED TOTAL COST		390,400	625.52	244,203,870

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

LOCATION UNIFORMAT II - LEVEL 2/ELEMENTS SUMMARY

BD Base Design

GFAR: 390,400.0 SF Cost/SF: 492.46
Rates Current At August 2022

Ref	Description	GFAR USD/SF	Total Cost USD
A10	Foundations		
A1010	Standard Foundations	4.43	1,730,372
	A10 - Foundations	4.43	1,730,372
A20	Basement ConstructionSubgrade Enclosures		
A2010	Walls for Subgrade Enclosures	6.85	2,673,146
	A20 - Basement ConstructionSubgrade Enclosures	6.85	2,673,146
A40	Slabs-on-Grade		
A4010	Standard Slabs-on-Grade	5.98	2,334,634
A4090	Slab-on-Grade Supplementary Components	0.15	56,756
	A40 - Slabs-on-Grade	6.13	2,391,390
A60	Water and Gas Mitigation		
A6010	Building Subdrainage	2.28	891,996
A6020	Off-Gassing Mitigation	0.19	75,000
	A60 - Water and Gas Mitigation	2.48	966,996
A90	Substructure Related Activities		
A9010	Substructure Excavation	3.97	1,548,196
	A90 - Substructure Related Activities	3.97	1,548,196
B10	Superstructure		
B1010	Floor Construction	43.03	16,799,017
B1020	Roof Construction	20.01	7,813,724
B1080	Stairs	4.00	1,562,950
	B10 - Superstructure	67.05	26,175,691
B20	Exterior Vertical Enclosures		
B2010	Exterior Walls	43.72	17,069,593
B2020	Exterior Windows	3.35	1,309,750
B2050	Exterior Doors and Grilles	0.91	356,070
B2070	Exterior Louvers and Vents	0.20	77,580
	B20 - Exterior Vertical Enclosures	48.19	18,812,993
B30	Exterior Horizontal Enclosures		
B3010	Roofing	7.46	2,913,977
B3020	Roof Appurtenances	0.28	108,800
B3060	Horizontal Openings		Excl.
	B30 - Exterior Horizontal Enclosures	7.74	3,022,777

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

LOCATION UNIFORMAT II - LEVEL 2/ELEMENTS SUMMARY

BD Base Design (continued)

GFAR: 390,400.0 SF Cost/SF: 492.46
Rates Current At August 2022

Ref	Description	GFAR USD/SF	Total Cost USD
C10	Interior Construction		
C1010	Interior Partitions	27.46	10,721,384
C1020	Interior Windows	5.06	1,974,705
C1030	Interior Doors	3.31	1,292,210
C1040	Interior Grilles and Gates	0.77	302,500
C1090	Interior Specialties	9.44	3,686,831
	C10 - Interior Construction	46.05	17,977,630
C20	Interior Finishes		
C2010	Wall Finishes	8.44	3,293,949
C2030	Flooring	11.81	4,609,972
C2040	Stair Finishes	0.56	218,997
C2050	Ceiling Finishes	13.12	5,123,469
	C20 - Interior Finishes	33.93	13,246,387
D10	Conveying		
D1010	Vertical Conveying Systems	1.88	735,000
	D10 - Conveying	1.88	735,000
D20	Plumbing		
D2010	Domestic Water Distribution	6.20	2,420,697
D2020	Sanitary Drainage	4.74	1,851,877
D2030	Building Support Plumbing Systems	3.99	1,559,554
D2050	General Service Compressed-Air	1.88	735,446
D2060	Process Support Plumbing Systems	1.26	493,848
	D20 - Plumbing	18.09	7,061,422
D30	HVAC		
D3020	Heat Systems	0.33	129,000
D3030	Cooling Systems	15.89	6,203,840
D3050	Facility HVAC Distribution Systems	46.46	18,139,082
D3060	Controls & Instrumentations	3.67	1,431,889
D3070	Special Purpose HVAC Systems	4.23	1,649,731
	D30 - HVAC	70.58	27,553,542
D40	Fire Protection		
D4010	Fire Suppression	7.68	2,998,525
	D40 - Fire Protection	7.68	2,998,525

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

LOCATION UNIFORMAT II - LEVEL 2/ELEMENTS SUMMARY

BD Base Design (continued)

GFAR: 390,400.0 SF Cost/SF: 492.46
Rates Current At August 2022

Ref	Description	GFAR USD/SF	Total Cost USD
D50	Electrical		
D5020	Electrical Service and Distribution	16.34	6,378,256
D5030	General Purpose Electrical Power	4.08	1,592,877
D5040	Lighting	16.09	6,281,604
D5080	Miscellaneous Electrical Systems	-4.90	-1,911,733
	D50 - Electrical	31.61	12,341,004
D60	Communications		
D6010	Data Communications	4.63	1,808,510
D6020	Voice Communications		Excl.
D6030	Audio-Video Communication	1.67	652,775
D6060	Distributed Communications and Monitoring	0.70	275,180
	D60 - Communications	7.01	2,736,465
D70	Electronic Safety and Security		
D7010	Access Controls and Intrusion Detection	2.50	976,625
D7030	Electronic Surveillance	1.06	413,160
D7050	Detection and Alarm	3.11	1,214,325
D7090	Electronic Safety and Security Supplementary Components	0.08	30,000
	D70 - Electronic Safety and Security	6.75	2,634,110
E10	Equipment		
E1040	Institutional Equipment		0
E1070	Entertainment and Recreational Equipment	0.08	33,000
E1090	Other Equipment	12.47	4,870,216
	E10 - Equipment	12.56	4,903,216
E20	Furnishings		
E2010	Fixed Furnishings	1.18	462,182
	E20 - Furnishings	1.18	462,182
F10	Special Construction		
F1020	Special Structures	0.39	153,150
F1050	Special Facility Components	1.79	700,000
	F10 - Special Construction	2.19	853,150
F20	Facility Remediation		
F2010	Hazardous Materials Remediation	4.87	1,900,000
	F20 - Facility Remediation	4.87	1,900,000

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

LOCATION UNIFORMAT II - LEVEL 2/ELEMENTS SUMMARY

BD Base Design (continued)

GFAR: 390,400.0 SF Cost/SF: 492.46
Rates Current At August 2022

Ref	Description	GFAR USD/SF	Total Cost USD
F30	Demolition		
F3010	Structure Demolition	4.38	1,708,622
	F30 - Demolition	4.38	1,708,622
G10	Site Preparation		
G1010	Site Clearing	3.97	1,548,650
G1020	Site Elements Demolition	3.17	1,239,169
G1070	Site Earthwork	33.34	13,016,717
	G10 - Site Preparation	40.48	15,804,536
G20	Site Improvements		
G2010	Roadways	4.12	1,609,816
G2020	Parking Lots	4.87	1,902,618
G2030	Pedestrian Plazas and Walkways	1.30	508,389
G2050	Athletic, Recreational, and Playfield Areas	8.95	3,493,685
G2060	Site Development	5.48	2,140,369
G2080	Landscaping	2.14	837,239
	G20 - Site Improvements	26.88	10,492,116
G30	Liquid and Gas Site Utilities		
G3010	Water Utilities	2.92	1,139,555
G3020	Sanitary Sewerage Utilities	2.23	869,900
G3030	Storm Drainage Utilities	11.89	4,642,829
G3090	Liquid and Gas Site Utilities Supplementary Components	2.86	1,116,263
	G30 - Liquid and Gas Site Utilities	19.90	7,768,547
G40	Electrical Site Improvements		
G4010	Site Electric Distribution Systems	5.93	2,313,188
G4050	Site Lighting	2.66	1,038,072
	G40 - Electrical Site Improvements	8.58	3,351,260
G50	Site Communications		
G5010	Site Communications	1.05	408,590
	G50 - Site Communications	1.05	408,590
BASE DESIGN		492.46	192,257,865

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

LOCATION UNIFORMAT II - LEVEL 2/ELEMENTS SUMMARY

BD Base Design (continued)

GFAR: 390,400.0 SF Cost/SF: 492.46
Rates Current At August 2022

Ref	Description	GFAR USD/SF	Total Cost USD
MARGINS & ADJUSTMENTS			
	Design & Estimating Contingency		7,690,313
	Escalation Allowance up to mid-point of Construction		11,297,073
	Sub-contractor Bonds		2,534,944
	General Liability Insurance (per CM Pricing Exhibit 1)		2,410,793
	Savings for Utilizing CCIP		-600,000
	Builder's Risk Insurance (per CM Pricing Exhibit 1)		365,272
	Payment & Performance Bond (per CM Pricing Exhibit 1)		1,850,710
	General Conditions (per CM Pricing Exhibit 1)		9,687,506
	General Requirements (per CM Pricing Exhibit 1)		6,044,059
	Allowance for Additional Requirements not included in CM Pricing Exhibit 1		1,000,000
	CM Construction Contingency (per CM Pricing Exhibit 1)		5,460,175
	CM Fee (per CM Pricing Exhibit 1)		4,205,160
ESTIMATED TOTAL COST		625.52	244,203,870

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - SUMMARY

BD BASE DESIGN

A Building

A1 New School Building

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	GFAR USD/SF	Total Cost USD
A10	Foundations		
A1010	Standard Foundations	4.42	1,682,352
	A10 - Foundations	4.42	1,682,352
A20	Basement ConstructionSubgrade Enclosures		
A2010	Walls for Subgrade Enclosures	6.64	2,527,510
	A20 - Basement ConstructionSubgrade Enclosures	6.64	2,527,510
A40	Slabs-on-Grade		
A4010	Standard Slabs-on-Grade	6.01	2,286,419
A4090	Slab-on-Grade Supplementary Components	0.14	51,835
	A40 - Slabs-on-Grade	6.14	2,338,254
A60	Water and Gas Mitigation		
A6010	Building Subdrainage	2.27	863,933
A6020	Off-Gassing Mitigation	0.20	75,000
	A60 - Water and Gas Mitigation	2.47	938,933
A90	Substructure Related Activities		
A9010	Substructure Excavation	4.01	1,526,263
	A90 - Substructure Related Activities	4.01	1,526,263
B10	Superstructure		
B1010	Floor Construction	44.14	16,799,017
B1020	Roof Construction	20.51	7,805,113
B1080	Stairs	4.11	1,562,950
	B10 - Superstructure	68.76	26,167,080
B20	Exterior Vertical Enclosures		
B2010	Exterior Walls	44.47	16,923,810
B2020	Exterior Windows	3.44	1,309,750
B2050	Exterior Doors and Grilles	0.81	309,870
B2070	Exterior Louvers and Vents	0.20	77,580
	B20 - Exterior Vertical Enclosures	48.93	18,621,010
B30	Exterior Horizontal Enclosures		
B3010	Roofing	7.64	2,908,097
B3020	Roof Appurtenances	0.29	108,800

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - SUMMARY

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	GFAR USD/SF	Total Cost USD
B3060	Horizontal Openings		Excl.
	B30 - Exterior Horizontal Enclosures	7.93	3,016,897
C10	Interior Construction		
C1010	Interior Partitions	28.14	10,707,623
C1020	Interior Windows	5.19	1,974,705
C1030	Interior Doors	3.39	1,290,640
C1040	Interior Grilles and Gates	0.79	302,500
C1090	Interior Specialties	9.65	3,672,391
	C10 - Interior Construction	47.16	17,947,859
C20	Interior Finishes		
C2010	Wall Finishes	8.64	3,287,440
C2030	Flooring	12.10	4,604,985
C2040	Stair Finishes	0.58	218,997
C2050	Ceiling Finishes	13.45	5,118,646
	C20 - Interior Finishes	34.76	13,230,068
D10	Conveying		
D1010	Vertical Conveying Systems	1.93	735,000
	D10 - Conveying	1.93	735,000
D20	Plumbing		
D2010	Domestic Water Distribution	6.36	2,420,697
D2020	Sanitary Drainage	4.87	1,851,877
D2030	Building Support Plumbing Systems	4.10	1,559,554
D2050	General Service Compressed-Air	1.93	735,446
D2060	Process Support Plumbing Systems	1.30	493,848
	D20 - Plumbing	18.55	7,061,422
D30	HVAC		
D3020	Heat Systems	0.34	129,000
D3030	Cooling Systems	16.30	6,203,840
D3050	Facility HVAC Distribution Systems	47.60	18,116,347
D3060	Controls & Instrumentations	3.74	1,423,417
D3070	Special Purpose HVAC Systems	4.32	1,644,739
	D30 - HVAC	72.31	27,517,343

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - SUMMARY

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	GFAR USD/SF	Total Cost USD
D40	Fire Protection		
D4010	Fire Suppression	7.88	2,998,525
	D40 - Fire Protection	7.88	2,998,525
D50	Electrical		
D5020	Electrical Service and Distribution	16.75	6,373,874
D5030	General Purpose Electrical Power	4.18	1,591,527
D5040	Lighting	16.49	6,273,932
D5080	Miscellaneous Electrical Systems	-5.03	-1,914,050
	D50 - Electrical	32.39	12,325,283
D60	Communications		
D6010	Data Communications	4.75	1,806,270
D6020	Voice Communications		Excl.
D6030	Audio-Video Communication	1.72	652,775
D6060	Distributed Communications and Monitoring	0.72	273,135
	D60 - Communications	7.18	2,732,180
D70	Electronic Safety and Security		
D7010	Access Controls and Intrusion Detection	2.53	964,675
D7030	Electronic Surveillance	1.09	413,160
D7050	Detection and Alarm	3.18	1,209,090
D7090	Electronic Safety and Security Supplementary Components	0.08	30,000
	D70 - Electronic Safety and Security	6.88	2,616,925
E10	Equipment		
E1040	Institutional Equipment		0
E1070	Entertainment and Recreational Equipment	0.09	33,000
E1090	Other Equipment	12.80	4,870,216
	E10 - Equipment	12.88	4,903,216
E20	Furnishings		
E2010	Fixed Furnishings	1.21	462,182
	E20 - Furnishings	1.21	462,182
NEW SCHOOL BUILDING		392.43	149,348,302

DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3



A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Design Development Cost Estimate - Revision 3
BOS20013-304

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
A10	FOUNDATIONS				
A1010	Standard Foundations				
996	Concrete to isolated spread footings, 4500 PSI	CY	1,507.38	315.00	474,825
529	Concrete to perimeter strip footings - 1' thick, 4500 PSI	CY	141.95	315.00	44,714
586	Concrete to perimeter strip footings - 2' thick, 4500 PSI	CY	523.70	315.00	164,965
1000	Concrete to interior strip footings - 1' thick, 4500 PSI	CY	108.00	315.00	34,020
588	Concrete to mat footings - 3" thick, 4500 PSI	CY	25.39	315.01	7,998
1117	Concrete to piers, 4500 PSI	CY	31.00	315.00	9,765
521	Form isolated spread footings	SF	17,622.90	20.00	352,458
530	Form strip footings	SF	7,124.19	20.00	142,484
589	Form mat footings	SF	258.93	20.00	5,179
1118	Form piers	SF	2,208.00	25.00	55,200
522	Bar reinforcement to isolated footing	Lb	145,214.55	1.65	239,604
587	Bar reinforcement to strip footings, allow 100 PCY	Lb	77,209.56	1.65	127,396
590	Bar reinforcement to mat footings	Lb	3,210.71	1.65	5,297
1119	Bar reinforcement to piers, allow	Lb	11,180.00	1.65	18,447
A1010 - Standard Foundations				4.42/SF	1,682,352
A10 - FOUNDATIONS				4.42/SF	1,682,352
A20	BASEMENT CONSTRUCTIONSUBGRADE ENCLOSURES				
A2010	Walls for Subgrade Enclosures				
597	Concrete to basement retaining walls, 4500 PSI	CY	914.00	325.00	297,050
599	Concrete to buttressed walls, 4500 PSI	CY	69.00	325.00	22,425
598	Concrete to perimeter frost walls, 4500 PSI	CY	546.24	325.00	177,528
1122	Concrete to interior foundation walls, 4500 PSI	CY	79.00	325.00	25,675
615	Concrete to elevator pit walls, 4500 PSI	CY	14.31	325.02	4,651
603	Form basement retaining walls	SF	20,614.00	25.00	515,350
604	Form buttressed walls	SF	3,712.00	25.00	92,800
605	Form perimeter frost walls	SF	17,457.13	25.00	436,428
1123	Form interior foundation walls	SF	5,344.00	25.00	133,600

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
616	Form elevator pit walls	SF	764.74	25.00	19,118
606	Bar reinforcement to basement retaining walls, allow 10 PSF	Lb	103,069.00	1.65	170,064
607	Bar reinforcement to buttressed walls, allow 10 PSF	Lb	18,558.00	1.65	30,621
608	Bar reinforcement to perimeter frost walls, allow 10 PSF	Lb	87,286.03	1.65	144,022
1124	Bar reinforcement to interior foundation walls, allow 10 PSF	Lb	26,717.00	1.65	44,083
613	Bar reinforcement to elevator pit walls	Lb	2,988.30	1.65	4,931
614	Waterproofing to basement retaining walls and footings and elevator pit walls and footings	SF	16,282.79	15.00	244,241
617	Dampproofing to frost wall	SF	8,728.56	6.00	52,371
618	Rigid insulation - 2" thick	SF	25,011.34	4.50	112,552
A2010 - Walls for Subgrade Enclosures				6.64/SF	2,527,510
A20 - BASEMENT CONSTRUCTIONSUBGRADE ENCLOSURES				6.64/SF	2,527,510
A40	SLABS-ON-GRADE				
A4010	Standard Slabs-on-Grade				
500	Concrete to slab on grade - 4" thick, 4000 PSI	CY	851.00	300.00	255,300
501	Concrete to slab on grade - 6" thick, 4000 PSI	CY	1,163.79	300.00	349,137
502	Form slab on grade	SF	2,309.63	18.00	41,573
503	Fiber mesh reinforcement	SF	131,716.69	1.10	144,888
698	Allowance for bar reinforcement	Lb	65,858.78	1.65	108,668
796	Allowance for thicken slab under CMU	LF	2,156.00	125.00	269,500
504	Float finish to slab on grade	SF	131,716.69	1.50	197,576
505	Control joints	SF	131,716.69	0.75	98,787
506	Air and vapor barrier	SF	131,716.69	0.85	111,960
508	Excavation for slab on grade	CY	7,705.57		Incl.
509	Remove and dispose of excavated material	CY	7,705.57		Incl.
510	Prepare and compact sub-base	SF	131,716.69	1.50	197,576
513	Imported sand gravel fill - 12" thick	CY	4,879.08	50.00	243,954
703	Winter conditions	LS	1.00		Excl.
707	Mechanical pads	Item			52,500

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
710	Engineering, layout, safety, cleaning, etc.	Item			215,000
	A4010 - Standard Slabs-on-Grade			6.01/SF	2,286,419
A4090	Slab-on-Grade Supplementary Components				
507	Rigid insulation - 2" thick	SF	11,518.74	4.50	51,835
656	Rigid insulation - 1" thick	SF	131,717.00		Excl.
514	Extruded polystyrene insulation, perimeter only 2' wide - 2" thick	SF	4,901.00		Excl.
	A4090 - Slab-on-Grade Supplementary Components			0.14/SF	51,835
	A40 - SLABS-ON-GRADE			6.14/SF	2,338,254
A60	WATER AND GAS MITIGATION				
A6010	Building Subdrainage				
619	Perimeter drain	LF	3,399.92	50.00	169,996
686	Under-slab drainage system	SF	131,716.69	3.75	493,937
1835	Allowance for Electrical and Plumbing earth work within footprint	LS	1.00	200,000.00	200,000
	A6010 - Building Subdrainage			2.27/SF	863,933
A6020	Off-Gassing Mitigation				
702	Allowance for radon mitigation - 20 drops x 60'	LS	1.00	75,000.00	75,000
	A6020 - Off-Gassing Mitigation			0.20/SF	75,000
	A60 - WATER AND GAS MITIGATION			2.47/SF	938,933
A90	SUBSTRUCTURE RELATED ACTIVITIES				
A9010	Substructure Excavation				
591	Excavation for foundation footings including spoils removal	CY	10,196.36	31.00	316,087
593	Prepare and compact foundation sub-base	SF	34,361.16	1.50	51,541
594	Imported sand gravel fill below foundations - 12" thick	CY	1,272.54	50.00	63,627
595	Basement mass excavation	CY	34,462.00	20.00	689,240
654	Excavation for elevator pit including spoils removal	CY	42.30	30.99	1,311
620	Imported foundation backfill	CY	6,588.90	30.00	197,667
691	Imported backfill to basement excavation	CY	6,893.00	30.00	206,790
	A9010 - Substructure Excavation			4.01/SF	1,526,263
	A90 - SUBSTRUCTURE RELATED ACTIVITIES			4.01/SF	1,526,263

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
B10	SUPERSTRUCTURE				
B1010	Floor Construction				
535	Galvanized composite metal floor deck - 2" deep	SF	245,278.80	6.00	1,471,673
1010	Galvanized composite metal floor deck - 2" deep (Auditorium stage)	SF	2,490.00		Excl.
1007	Galvanized composite metal sloped floor deck - 2" deep (Auditorium)	SF	6,792.00	6.00	40,752
537	Structural steel framing - allow 15 PSF	T	1,555.7760	5,400.00	8,401,190
1011	Structural steel framing - allow 18 PSF	T	105.1100	5,400.00	567,594
570	Structural steel framing - allow 20 PSF	T	252.5700	5,400.00	1,363,878
571	Structural steel framing - allow 22 PSF (none indicated)	T	282.4800		Excl.
997	Prestressed precast concrete hollow core plank, 10" thick	SF	13,609.00	45.00	612,405
538	Light weight concrete topping, overall 5-1/4" thick, 4500 PSI	CY	4,085.00	450.00	1,838,250
998	Normal weight concrete topping to precast planks, 2" thick, 4500 PSI	CY	85.00	350.00	29,750
539	Fiber mesh reinforcement to floor deck	SF	265,678.80	1.10	292,247
540	Float finish to concrete topping	SF	252,070.80	3.00	756,212
572	Moment connection	EA	253.00	750.00	189,750
648	Expansion joint	LF	470.00	125.00	58,750
748	Wood floor deck - 2 layers 3/4" FRT plywood subfloor on 2x12 floor joists (Mezz)	SF	1,714.00	50.00	85,700
749	Geofoam rigid insulation (Auditorium stage) - 2'-0" high	SF	2,490.00		Excl.
750	Geofoam rigid insulation (Auditorium slope flooring)	SF	2,755.00	10.00	27,550
542	Allowance for miscellaneous connections and framings	T	191.3460		Incl.
543	Allowance for spray applied fireproofing (members only)	SF	252,070.80	3.75	945,266
1647	Allowance for intumescient paint to round HSS columns	SF	361.00	50.00	18,050
720	Allowance for shear studs - assumed included with tonnage	EA	63,018.20		Incl.

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
722	Allowance for pour stops and bent plates - assumed included with tonnage	LF	11,109.00		Incl.
809	Allowance for miscellaneous equipment pads (above ground)	LS	1.00	100,000.00	100,000
B1010 - Floor Construction				44.14/SF	16,799,017
B1020	Roof Construction				
546	Galvanized corrugated roof deck - 3" deep, type N	SF	100,099.30	7.00	700,695
562	Acoustic galvanized corrugated roof deck - 3" deep, type NA (Gym)	SF	25,126.00	15.00	376,890
558	Galvanized composite metal roof deck - 2" deep	SF	18,260.00	6.00	109,560
547	Structural steel framing - allow 13 PSF	T	155.7500	5,400.00	841,050
1008	Structural steel framing - allow 15 PSF	T	592.4309	5,400.00	3,199,126
563	Structural steel framing - allow 18 PSF	T	238.6400	5,400.00	1,288,656
1009	Structural steel framing - allow 20 PSF	T	35.5100	5,400.00	191,754
548	Light weight concrete topping, overall 5-1/4" thick, 4500 PSI	CY	296.00	450.00	133,200
549	Fiber mesh reinforcement to floor deck	SF	18,260.00	1.10	20,086
550	Float finish to concrete topping	SF	18,260.00	3.00	54,780
567	Moment connection	EA	327.00	750.00	245,250
551	Allowance for miscellaneous connections and framings	T	102.2389		Incl.
688	Allowance for structural framing to roof screen, 8 PSF (none indicated)	T	8.0800		Excl.
649	Expansion joint	LF	208.00	125.00	26,000
719	Allowance for spray applied fireproofing (members only)	SF	143,484.29	3.75	538,066
721	Allowance for shear studs - assumed included with tonnage	EA	4,565.00		Incl.
1838	Miscellaneous roof blocking	LS	1.00	80,000.00	80,000
B1020 - Roof Construction				20.51/SF	7,805,113
B1080	Stairs				
182	1'-6" High metal guardrail at Rotunda balcony	LF	195.00	100.00	19,500
183	7'-0" High metal guardrail / gate at rooftop playground - none indicated	LF	115.00		Excl.

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
299	Wire mesh guardrail	LF	1,162.40		Incl.
1816	Metal guardrail	LF	336.00		Incl.
759	Metal handrail	LF	538.90		Incl.
747	Metal stairs with concrete filled pans and landing - 4'-6" wide	FT/R	20.00	2,850.00	57,000
661	Metal stairs with concrete filled pans and landing - 5'-0" wide	FT/R	48.00	3,500.00	168,000
1135	Metal stairs with concrete filled pans and landing - 5'-3" wide	FT/R	97.00	3,500.00	339,500
662	Metal stairs with concrete filled pans and landing - 5'-6" wide	FT/R	20.00	3,500.00	70,000
1134	Metal stairs with concrete filled pans and landing - 8'-3" wide	FT/R	48.00	5,500.00	264,000
665	Metal stairs with concrete filled pans and landing - 10'-0" wide	FT/R	48.00	6,500.00	312,000
1133	Metal stairs with concrete filled pans and landing - 10'-3" wide	FT/R	48.00	6,500.00	312,000
663	Metal stairs with concrete filled pans and landing - 8'-0" wide (none indicated)	FT/R	48.00		Excl.
664	Metal stairs with concrete filled pans and landing - 10'-6" wide (none indicated)	FT/R	48.00		Excl.
1475	Metal stair with handrail and integrated guardrail - 5'-6" wide	FT/R	3.00	3,500.00	10,500
1679	Concrete stair to Auditorium - 4'-1" wide	FT/R	35.00		Excl.
1680	Access ladder	LF	95.00	110.00	10,450
B1080 - Stairs				4.11/SF	1,562,950
B10 - SUPERSTRUCTURE				68.76/SF	26,167,080
B20	EXTERIOR VERTICAL ENCLOSURES				
B2010	Exterior Walls				
48	Aluminum curtain wall system, with insulating glass	SF	26,742.00	150.00	4,011,300
2038	Aluminum curtain wall system, with insulating glass	SF	-1,720.00	150.00	-258,000
49	Aluminum storefront system, with insulating glass	SF	4,846.90	120.00	581,628
212	Aluminum storefront system - none indicated	SF	3,337.00		Excl.
98	Insulated translucent wall panel system with glazed operable sashes	SF	3,022.00	150.00	453,300

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
22	Cast stone ILO 2" Thick Granite veneer	SF	2,365.00	50.00	118,250
1651	4" Thick Cast stone veneer	SF	6,196.00	50.00	309,800
29	4" Thick CMU Veneer	SF	12,992.24	40.00	519,689
1989	Brick veneer ILO of corrugated panels	SF	30,898.00	42.00	1,297,716
2040	Brick veneer with CMU backing	SF	1,720.00	95.00	163,400
30	Insulated metal panel	SF	12,365.00		Excl.
23	Flat-lock metal tile	SF	5,134.90	80.00	410,792
44	Corrugated metal panel	SF	32,524.00	60.00	1,951,440
1990	Remove corrugated panel replaced by brick veneer	SF	-30,898.00	50.00	-1,544,900
1985	Corrugated metal panel ILO insulated panels	SF	12,365.00	60.00	741,900
1652	Porcelain ceramic panel	SF	24,061.00		Excl.
1983	Corrugated metal panel ILO porcelain panels	SF	9,625.00	60.00	577,500
1984	Insulated panel ILO porcelain panels	SF	14,436.00	90.00	1,299,240
2032	Corrugated panel ILO insulated panels	SF	14,436.00	60.00	866,160
2033	Insulated panel replaced by corrugated	SF	14,436.00	-80.00	-1,154,880
2034	Brick veneer ILO of corrugated panels	SF	14,136.00	42.00	593,712
2035	Remove corrugated panel replaced by brick veneer	SF	14,136.00	-50.00	-706,800
1	Travertine veneer - none indicated	SF	2,431.00		Excl.
28	Phenolic panel (mahogany) - none indicated	SF	20,790.00		Excl.
26	Exterior cladding to rotunda dome base, allow metal panel	SF	346.00	90.00	31,140
160	Extend roof membrane to perimeter wall	SF	991.00	12.00	11,892
162	Cladding to Rotunda base, assumes wood panels - none indicated	SF	697.00		Excl.
128	Cladding to entrance columns	SF	178.00	125.00	22,250
165	Building trim at South elevation, assumes metal panel with wood appearance - none indicated	LF	500.00		Excl.
1777	8" thick CMU shear walls	SF	6,237.00	38.00	237,006
1137	12" thick CMU shear walls	SF	3,975.00	47.00	186,825
72	8" Thick CMU back-up	SF	9,917.24	35.00	347,103
71	12" Thick CMU back-up	SF	9,398.00	45.00	422,910
1658	10" Light gauge metal stud back-up, sheathing, interior GWB lining	SF	346.00	25.00	8,650

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
74	8" Light gauge metal stud back-up, sheathing, interior GWB lining	SF	2,447.00	23.50	57,505
73	6" Light gauge metal stud back-up, sheathing, interior GWB lining	SF	56,905.00	18.00	1,024,290
1669	3 5/8" Light gauge metal stud back-up, sheathing, interior GWB lining	SF	486.00	15.50	7,533
151	3 5/8" Light gauge metal stud back-up, sheathing	SF	1,257.00	12.00	15,084
1661	2 1/2" Light gauge metal stud back-up, sheathing	SF	14,463.00	11.50	166,325
1650	6" Light gauge metal stud back-up, sheathing	SF	2,365.00	15.00	35,475
1657	6" Light gauge metal stud back up, interior GWB lining	SF	3,604.00	15.00	54,060
1656	(6"+4") Light gauge metal stud back up, interior GWB lining	SF	2,017.00	22.00	44,374
1655	(6"+6") Light gauge metal stud back up, interior GWB lining	SF	2,702.00	25.00	67,550
27	Metal wall panel; ACM rainscreen system to crown ribs, including back-up	SF	4,198.00	90.00	377,820
136	Metal wall panel; ACM rainscreen system to exterior window sill at West elevation, including back-up	SF	1,507.00	90.00	135,630
150	Metal wall panel; ACM rainscreen system to exterior window mullion at West elevation	SF	1,402.00	90.00	126,180
154	ACM Panel system at horizontal entrance soffit / window bay soffit	SF	2,947.00	105.00	309,435
25	ACM Panel system at cornice	SF	11,517.00	90.00	1,036,530
1663	ACM Band	SF	816.00		Excl.
1982	Cast stone ILO of ACM band	SF	816.00	50.00	40,800
1649	2" Thick rigid insulation	SF	8,560.16	5.00	42,801
89	3" Thick rigid insulation	SF	12,992.00	7.00	90,944
90	3" Thick batt insulation	SF	12,711.00	4.00	50,844
91	3-1/2" Thick mineral fiber insulation	SF	18,329.00	4.00	73,316
1659	3-1/2" Thick mineral wool insulation	SF	63,759.00	4.00	255,036
95	Fluid applied air-vapor barrier	SF	115,360.26	9.00	1,038,242
190	Allowance for miscellaneous sealing and caulking	SF	168,464.97	2.00	336,930
1653	Plywood sheathing under Rotunda pedestal	SF	233.00	5.00	1,165
1654	Membrane flashing under windows with 5/8" FRP plywood	SF	2,464.00	12.00	29,568

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1987	Allowance for coping	LF	547.00	50.00	27,350
2042	Simplify cladding design at entrance lobby (TVD)	LS	1.00	-20,000.00	-20,000
B2010 - Exterior Walls				44.47/SF	16,923,810
B2020	Exterior Windows				
1644	Aluminum window system	SF	3,104.00	120.00	372,480
1627	Aluminum window system, with insulating glass	SF	8,521.00	120.00	1,022,520
1645	Premium for spandrel glass	SF	475.00	10.00	4,750
1988	Reduce operable vents	EA	150.00	-600.00	-90,000
B2020 - Exterior Windows				3.44/SF	1,309,750
B2050	Exterior Doors and Grilles				
1227	16'-0" x 14'-0" Motor operated overhead door with insulating glass	EA	1.00	22,500.00	22,500
100	14'-0" x 14'-0" Motor operated overhead door with insulating glass	EA	2.00	19,500.00	39,000
101	12'-0" x 14'-0" Motor operated overhead door with insulating glass	EA	4.00	17,000.00	68,000
1307	12'-0" x 11'-4" Motor operated overhead door with insulating glass	EA	4.00	14,000.00	56,000
1214	8'-0" x 14'-0" Motor operated overhead door with insulating panels	EA	1.00	11,500.00	11,500
1235	2@ 3'-2 7/8" x 6'-10 7/8" Double leaf aluminum glazed door, including frame, finish, and hardware	Pair	1.00	12,650.00	12,650
1240	2@ 3'-2 1/4" x 6'-10 1/4" Double leaf aluminum glazed door, including frame, finish, and hardware	Pair	1.00	12,350.00	12,350
1239	2@ 3'-1/8" x 7'-0" Double leaf aluminum glazed door, including frame, finish, and hardware	Pair	1.00	12,550.00	12,550
1229	2 @ 3'-0" x 7'-2 3/8" Double leaf aluminum glazed door, including frame, finish, and hardware	Pair	1.00	12,220.00	12,220
1234	2@ 2'-11 1/2" x 7'-3 1/4" Double leaf aluminum glazed door, including frame, finish, and hardware	Pair	1.00	12,150.00	12,150
1233	2@ 2'-11 1/2" x 6'-10 1/4" Double leaf aluminum glazed door, including frame, finish, and hardware	Pair	1.00	11,500.00	11,500
152	2 @ 3'-10" x 7'-0" Double leaf hollow metal door, including frame, finish, and hardware	Pair	1.00	3,000.00	3,000

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
135	2 @ 3'-0" x 7'-0" Double leaf hollow metal door, including frame, finish, and hardware	Pair	1.00	2,500.00	2,500
134	3'-0" x 7'-0" Single leaf hollow metal door, including frame, finish, and hardware	EA	2.00	1,350.00	2,700
1230	3'-0" x 6'-10 1/4" Single leaf aluminum glazed door, including frame, finish, and hardware	EA	3.00	5,850.00	17,550
1232	3'-6" x 6'-11" Single leaf aluminum glazed door, including frame, finish, and hardware	EA	2.00	6,850.00	13,700
122	8'-0" x 14'-0" Insulated overhead coiling door	EA	1.00		Excl.
126	2 @ 3'-0" x 8'-0" Double leaf aluminum glazed door, including frame, finish, and hardware	Pair	6.00		Excl.
130	2 @ 3'-6" x 7'-0" Double leaf aluminum glazed door, including frame, finish, and hardware	Pair	4.00		Excl.
133	3'-5" x 7'-0" Single leaf aluminum glazed door, including frame, finish, and hardware	EA	1.00		Excl.
125	2 @ 3'-0" x 7'-0" Double leaf aluminum door, including frame, finish, and hardware	Pair	1.00		Excl.
B2050 - Exterior Doors and Grilles				0.81/SF	309,870
B2070	Exterior Louvers and Vents				
99	Louver	SF	775.80	100.00	77,580
B2070 - Exterior Louvers and Vents				0.20/SF	77,580
B20 - EXTERIOR VERTICAL ENCLOSURES				48.93/SF	18,621,010
B30	EXTERIOR HORIZONTAL ENCLOSURES				
B3010	Roofing				
164	PVC Membrane roofing; single ply membrane over cover board on 6 1/2" min. roof insulation (excluded protection board)	SF	78,775.00	31.00	2,442,025
156	PVC Membrane roofing; single ply membrane over cover board on 6 1/2" min. tapered roof insulation - none indicated	SF	59,100.00		Excl.
1479	PVC Membrane roofing; single ply membrane over cover board on 4 1/2" min. tapered roof insulation (excluding protection board)	SF	83,059.00		Excl.
1986	Overhung roofing reduction	SF	-7,574.00	35.00	-265,090

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
163	PVC Membrane roofing; single ply membrane over cover board on 1 1/2" min. tapered roof insulation - none indicated	SF	19,266.00		Excl.
169	Tapered insulation cricket (premium over PVC roofing)	SF	18,047.00	7.00	126,329
43	Exterior linear metal ceiling with wood appearance at horizontal entrance soffit	SF	2,635.00		Excl.
1452	Exterior aluminum composite material soffit	SF	2,947.00		Excl.
1966	Exterior painted gypsum board soffit	SF	5,582.00	35.00	195,370
158	Metal coping on top of exterior wall (building signage wall)	SF	298.00	75.00	22,350
159	Metal coping on top of exterior wall (Rotunda balcony wall)	SF	770.00	75.00	57,750
174	Metal coping on top of exterior wall (rooftop playground perimeter wall)	SF	257.00	75.00	19,275
348	Semi-intensive green roof	SF	878.00		Excl.
352	Intensive green roof - none indicated	SF	1,482.00		Excl.
349	Extensive green roof	SF	7,019.00		Excl.
1467	Wood deck walkway	SF	1,281.00		Excl.
350	Flagstone - none indicated	EA	20.00		Excl.
351	Stabilized stonedust paving - none indicated	SF	1,666.00		Excl.
354	Rooftop pavers on pedestals at rotunda balcony (premium over EPDM roofing)	SF	1,689.00		Excl.
353	Pedestal roof deck concrete pavers	SF	1,664.00	30.00	49,920
358	Poured in place rubber safety surfacing	SF	2,248.00	25.00	56,200
359	Synthetic turf	SF	3,196.00		Excl.
1715	Walkway pad	SF	10,324.00	8.00	82,592
1716	Loose membrane slip sheet	SF	31,407.00		Excl.
191	Allowance for miscellaneous trims and flashings	SF	161,834.00	0.75	121,376
B3010 - Roofing				7.64/SF	2,908,097
B3020	Roof Appurtenances				
168	Roof hatch	EA	1.00	5,500.00	5,500
1485	Smoke hatch	EA	3.00		Excl.
1491	Roof access ladder, 2'-0" wide	LF	18.00	350.00	6,300
181	7'-6" High RTU screen - none indicated	LF	270.00		Excl.

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1492	Ballasted guardrail	LF	66.00		Excl.
1471	Perforated metal panels, 6' high	LF	10.00		Excl.
1474	Perforated metal screen panels with gate, 8' high	LF	97.00	1,000.00	97,000
1468	Wood pergola, 16' x 18'	EA	1.00		Excl.
1469	Wood stepped seatwalls	SF	84.00		Excl.
1470	Raised fiberglass planters	SF	100.00		Excl.
1472	Surface mounted wood/metal link bench (refer to Site Development)	LF	15.00		Incl.
B3020 - Roof Appurtenances				0.29/SF	108,800
B3060	Horizontal Openings				
96	Glazed dome, prefabricated self-supporting insulating glass in aluminum framing	SF	750.00		Excl.
B3060 - Horizontal Openings					Excl.
B30 - EXTERIOR HORIZONTAL ENCLOSURES				7.93/SF	3,016,897
C10	INTERIOR CONSTRUCTION				
C1010	Interior Partitions				
129	Wire mesh partition - 7'-7" high	LF	158.00	380.00	60,040
131	Premium for single leaf gate	EA	2.00		Incl.
132	Premium for double leaf gate	Pair	9.00		Incl.
1561	CMU partition, 4" thick	SF	3,751.10	25.00	93,777
267	CMU partition, 8" thick	SF	79,445.59	28.00	2,224,477
1562	CMU partition, 8" thick, 2 hour fire rated	SF	8,533.00	30.00	255,990
268	CMU partition, 12" thick	SF	1,625.20	30.00	48,756
1563	CMU partition, 12" thick, 2 hour fire rated	SF	3,067.00	32.50	99,678
486	CMU partition, 18" thick - assume 12"+6" - none indicated	SF	6,244.00		Excl.
1776	CMU shear walls, 8" thick	SF	6,104.00	30.00	183,120
1138	CMU shear walls, 12" thick	SF	18,894.00	32.00	604,608
414	Gypsum board partition - 3-5/8" metal stud with 1 layer 5/8" GWB on both side with 3-1/2" acoustic batt insulation (Type G4.0)	SF	694.00	17.00	11,798
408	Gypsum board partition - 6" metal stud with 1 layer 5/8" GWB on both side with 5" acoustic batt insulation (Type G6.0)	SF	61,528.00	21.25	1,307,470

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
415	Gypsum board partition - 6" metal stud with 2 layer 5/8" GWB one side and 1 layer 5/8" GWB another side with 5" acoustic batt insulation (Type G6.0A)	SF	57,558.00	23.75	1,367,003
412	Gypsum board partition - 6" metal stud with 2 layer 5/8" GWB on both sides with 5" acoustic batt insulation (Type G6.0B)	SF	58,613.00	26.25	1,538,591
1550	Gypsum board partition - 6" metal stud with 2 layer 5/8" GWB on both sides with 5" acoustic batt insulation, 1 hour fire rated (Type G6.1B)	SF	2,356.00	29.00	68,324
409	Gypsum board partition - 6" metal stud with 2 layer 5/8" GWB on both sides with 5" acoustic batt insulation, 2 hour fire rated (Type G6.2)	SF	11,476.00	30.50	350,018
459	Gypsum board furring - 7/8" metal stud with 1 layer 5/8" GWB (Type F1.0)	SF	1,453.00	7.50	10,898
1552	Gypsum board furring - 2-1/2" metal stud with 1 layer 5/8" GWB (Type F3.0)	SF	1,504.00	9.50	14,288
410	Gypsum board furring - 3-5/8" metal stud with 1 layer 5/8" GWB (Type F4.0)	SF	22,279.00	11.00	245,069
432	Gypsum board furring - 3-5/8" metal stud with 2 layer 5/8" GWB (Type F4.0A)	SF	9,518.00	13.50	128,493
411	Gypsum board furring - 6" metal stud with 1 layer 5/8" GWB (Type F6.0)	SF	25,095.00	12.50	313,688
413	Gypsum board furring - 6" metal stud with 2 layer 5/8" GWB (Type F6.0A)	SF	37,030.00	15.00	555,450
1565	Shaft wall - 6" CH stud with 1" Gypsum liner panel on side and 2 layers 5/8" GWB another side with 5-1/2" acoustic batt insulation, 1 hour fire rated (Type S6.1)	SF	668.00	28.50	19,038
433	Shaft wall - 6" CH stud with 1" Gypsum liner panel on side and 2 layers 5/8" GWB another side with 5-1/2" acoustic batt insulation, 2 hour fire rated (Type S6.2)	SF	21,811.00	30.00	654,330
487	Gypsum board partition - 6" double metal stud with 1 layer 5/8" GWB on both sides with 5" acoustic batt insulation - none indicated	SF	4,870.00		Excl.
464	Gypsum board partition - 2x4 wood stud with 1 layer 3/4" FRT plywood sheathing on both sides	SF	2,879.00	17.00	48,943
1571	Gypsum board furring - 2x4 wood stud with 1 layer 3/4" FRT plywood sheathing on one side	SF	5,267.00	12.50	65,838
488	Allowance for miscellaneous sealing and caulking	SF	406,262.00	0.50	203,131

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
489	Allowance for miscellaneous fire stopping	SF	406,262.00	0.25	101,565
806	Allowance for miscellaneous clean-up, additional labor, safety, etc. (Masonry Trade)	SF	406,262.00	0.50	203,131
808	Allowance for miscellaneous clean-up, additional labor, safety, etc. (Drywall Trade)	SF	406,262.00	0.35	142,192
1965	Abuse resistant gypsum board, 5/8" thick	SF	-34,306.00	3.50	-120,071
1967	Gypsum board furring - 6" metal stud with 2 layer 5/8" GWB, 2 hour fire rated (Type F6.0A)	SF	1,855.00	18.00	33,390
1968	Knee walls at Auditorium balcony level	LF	135.00	200.00	27,000
1969	Miscellaneous potential saving not yet identified	LF	1.00	-100,000.00	-100,000
2043	Reduce interior storefronts by 10% (TVD)	LS	1.00	-52,400.00	-52,400
C1010 - Interior Partitions				28.14/SF	10,707,623
C1020	Interior Windows				
112	Interior door sidelights with safety glass	SF	4,601.00	60.00	276,060
153	Interior storefront	SF	5,517.00	95.00	524,115
1594	Interior curtain walls	SF	3,801.00	130.00	494,130
166	Interior fixed borrowed lights	SF	1,242.00	75.00	93,150
137	Interior security transaction window - 4'-0" x 6'-0"	EA	1.00	2,000.00	2,000
138	Interior acoustically rated sliding window - 8'-8" x 3'-8"	EA	1.00	5,000.00	5,000
155	Fire rated glazing system - 2 hour fire rated	SF	2,857.00	200.00	571,400
794	Premium for color art glass panels	SF	177.00	50.00	8,850
C1020 - Interior Windows				5.19/SF	1,974,705
C1030	Interior Doors				
102	3'-0"x7'-0" Single leaf hollow metal doors, including frame, finish and hardware	EA	49.00	1,570.00	76,930
1287	3'-0"x7'-0" Single leaf hollow metal doors, including frame, finish and hardware (90 min fire-rated)	EA	12.00	1,850.00	22,200
103	2@3'-0"x7'-0" Double leaf hollow metal doors, including frame, finish and hardware	Pair	11.00	3,000.00	33,000
1289	2@3'-0"x7'-2" Double leaf hollow metal doors, including frame, finish and hardware	Pair	5.00	3,100.00	15,500
1288	2@3'-0"x7'-0" Double leaf hollow metal doors, including frame, finish and hardware (90 min fire-rated)	Pair	3.00	3,500.00	10,500

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1291	2@3'-6"x7'-0" Double leaf hollow metal doors, including frame, finish and hardware	Pair	2.00	3,500.00	7,000
1292	2@3'-10"x7'-0" Double leaf hollow metal doors, including frame, finish and hardware	Pair	1.00	3,850.00	3,850
1318	2@3'-0"x7'-0" Double leaf aluminum doors, including frame, finish and hardware with 2'-0"x(2'-9"+1'-11") safety glass vision panel	Pair	6.00	5,750.00	34,500
1319	(3'-0"+2'-11 5/8")x6'-10 7/8" Double leaf aluminum doors, including frame, finish and hardware with 2'-0"x(2'-9"+1'-11") safety glass vision panel (90 min fire-rated)	Pair	1.00	9,600.00	9,600
1320	3'-0"x6'-10 1/4" Single leaf aluminum doors, including frame, finish and hardware with 2'-0"x(2'-9"+1'-11") safety glass vision panel	EA	4.00	2,875.00	11,500
1323	3'-6"x6'-11" Single leaf aluminum doors, including frame, finish and hardware with 2'-0"x(2'-9"+1'-11") safety glass vision panel	EA	1.00	3,275.00	3,275
1324	2'-10 3/4"x6'-10 1/4" Single leaf aluminum doors, including frame, finish and hardware with 2'-0"x(2'-9"+1'-11") safety glass vision panel	EA	4.00	2,900.00	11,600
1325	2@ 3'-1/4" x 8'-1/4" Double leaf aluminum doors, including frame, finish and hardware with 2'-0"x(2'-9"+1'-11") safety glass vision panel	Pair	2.00	7,000.00	14,000
1326	2@ 3'-2 3/4" x 6'-10 3/4" Double leaf aluminum doors, including frame, finish and hardware with 2'-0"x(2'-9"+1'-11") safety glass vision panel	Pair	1.00	6,000.00	6,000
1327	2@ 3'-2 7/8" x 6'-10 7/8" Double leaf aluminum doors, including frame, finish and hardware with 2'-0"x(2'-9"+1'-11") safety glass vision panel	Pair	2.00	6,050.00	12,100
1332	2@ 3'-2 7/8" x 6'-10 7/8" Double leaf aluminum doors, including frame, finish and hardware with 2'-0"x(2'-9"+1'-11") safety glass vision panel (90 min fire-rated)	Pair	2.00	9,975.00	19,950
1328	2@ 3'-5 1/2" x 6'-10 1/4" Double leaf aluminum doors, including frame, finish and hardware with 2'-0"x(2'-9"+1'-11") safety glass vision panel	Pair	2.00	6,350.00	12,700
1329	2@ 3'-6 1/8" x 6'-11" Double leaf aluminum doors, including frame, finish and hardware with 2'-0"x(2'-9"+1'-11") safety glass vision panel	Pair	2.00	6,500.00	13,000

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
104	2@ 3'-6 1/8" x 6'-10 7/8" Double leaf aluminum doors, including frame, finish and hardware with 2'-0"x(2'-9"+1'-11") safety glass vision panel	Pair	3.00	6,500.00	19,500
105	2@ 3'-6" x 6'-10 7/8" Double leaf aluminum doors, including frame, finish and hardware with 2'-0"x(2'-9"+1'-11") safety glass vision panel	Pair	2.00	6,500.00	13,000
108	2@ 3'-6" x 6'-10 1/4" Double leaf aluminum doors, including frame, finish and hardware with 2'-0"x(2'-9"+1'-11") safety glass vision panel	Pair	1.00	6,500.00	6,500
109	2@ 3'-10" x 6'-10 7/8" Double leaf aluminum doors, including frame, finish and hardware with 2'-0"x(2'-9"+1'-11") safety glass vision panel	Pair	1.00	7,000.00	7,000
1330	2@ 3'-10" x 6'-10 7/8" Double leaf aluminum doors, including frame, finish and hardware with 2'-0"x(2'-9"+1'-11") safety glass vision panel (90 min fire-rated)	Pair	1.00	10,850.00	10,850
1331	2@ 3'-10" x 7'-0" Double leaf aluminum doors, including frame, finish and hardware with 2'-0"x(2'-9"+1'-11") safety glass vision panel (90 min fire-rated)	Pair	2.00	10,950.00	21,900
115	2@ 3'-10 1/8" x 6'-10 7/8" Double leaf aluminum doors, including frame, finish and hardware with 2'-0"x(2'-9"+1'-11") safety glass vision panel	Pair	1.00	6,950.00	6,950
1263	3'-0"x4'-0" Single leaf wooden doors, including frame, finish and hardware	EA	3.00	1,050.00	3,150
106	3'-0"x7'-0" Single leaf wooden doors, including frame, finish and hardware	EA	323.00	1,845.00	595,935
1275	3'-0"x7'-0" Single leaf wooden doors, including frame, finish and hardware with 2'-0"x2'-11" safety glass vision panel	EA	6.00	2,450.00	14,700
1284	3'-0"x6'-11" Single leaf wooden doors, including frame, finish and hardware with 2'-0"x(2'-9"+1'-11") safety glass vision panel	EA	2.00	2,450.00	4,900
1283	3'-0"x7'-0" Single leaf wooden doors, including frame, finish and hardware with 2'-0"x(2'-9"+1'-11") safety glass vision panel	EA	3.00	2,450.00	7,350
1262	3'-0"x7'-0" Single leaf wooden doors, including frame, finish and hardware (90 min fire-rated)	EA	1.00	2,100.00	2,100
1285	3'-4"x7'-0" Single leaf wooden doors, including frame, finish and hardware with 2'-0"x(2'-9"+1'-11") safety glass vision panel	EA	1.00	2,650.00	2,650

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1286	3'-5 7/8"x7'-0" Single leaf wooden doors, including frame, finish and hardware with 2'-0"x(2'-9"+1'-11") safety glass vision panel	EA	2.00	2,750.00	5,500
1270	3'-6"x7'-0" Single leaf wooden doors, including frame, finish and hardware	EA	2.00	2,150.00	4,300
107	2@3'-0"x7'-0" Double leaf wooden doors, including frame, finish and hardware	Pair	24.00	3,500.00	84,000
1277	2@3'-0"x7'-0" Double leaf wooden doors, including frame, finish and hardware with 2'-0"x2'-11" safety glass vision panel	Pair	1.00	4,250.00	4,250
1278	2@3'-0"x7'-0" Double leaf wooden doors, including frame, finish and hardware with 2'-0"x(2'-9"+1'-11") safety glass vision panel	Pair	3.00	4,750.00	14,250
1266	2@3'-0"x7'-0" Double leaf wooden doors, including frame, finish and hardware (90 min fire-rated)	Pair	8.00	4,000.00	32,000
1271	2@3'-0"x7'-2" Double leaf wooden doors, including frame, finish and hardware	Pair	5.00	3,585.00	17,925
1272	2@3'-0"x8'-0" Double leaf wooden doors, including frame, finish and hardware	Pair	4.00	4,000.00	16,000
1269	2@3'-6"x7'-0" Double leaf wooden doors, including frame, finish and hardware	Pair	1.00	4,350.00	4,350
121	2@3'-0" x 9'-0" Double leaf wooden sliding barn doors, including frame, finish and hardware	Pair	2.00	4,500.00	9,000
1267	2@3'-10"x7'-0" Double leaf wooden doors, including frame, finish and hardware	Pair	3.00	4,475.00	13,425
1268	2@3'-10"x7'-0" Double leaf wooden doors, including frame, finish and hardware (90 min fire-rated)	Pair	1.00	5,175.00	5,175
1215	3'-0"x7'-0" Single leaf wooden safety glazed doors, including frame, finish and hardware	EA	2.00	2,450.00	4,900
1251	2'-6"x3'-0" Single leaf metal floor hatch, including frame, finish and hardware	EA	1.00	1,000.00	1,000
1336	3'-0"x7'-7" Single leaf wire mesh doors, including frame, finish and hardware	EA	1.00	1,550.00	1,550
1337	3'-0"x7'-10" Single leaf wire mesh doors, including frame, finish and hardware	EA	1.00	1,650.00	1,650
1339	3'-4"x7'-7" Single leaf wire mesh doors, including frame, finish and hardware	EA	1.00	1,700.00	1,700

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1338	4'-0"x7'-7" Single leaf wire mesh doors, including frame, finish and hardware	EA	2.00	2,050.00	4,100
1340	2@3'-0"x7'-10" Double leaf wire mesh doors, including frame, finish and hardware	Pair	3.00	2,025.00	6,075
1341	2@3'-6"x7'-0" Double leaf wire mesh doors, including frame, finish and hardware	Pair	3.00	3,150.00	9,450
1342	2@3'-6"x7'-2" Double leaf wire mesh doors, including frame, finish and hardware	Pair	2.00	3,250.00	6,500
1343	2@3'-7"x7'-0" Double leaf wire mesh doors, including frame, finish and hardware	Pair	1.00	3,250.00	3,250
1344	2@3'-7 1/4"x7'-2" Double leaf wire mesh doors, including frame, finish and hardware	Pair	1.00	3,250.00	3,250
1345	2@3'-8"x7'-0" Double leaf wire mesh doors, including frame, finish and hardware	Pair	1.00	3,350.00	3,350
110	Single leaf stainless steel doors, including frame, finish and hardware (none indicated)	EA	4.00		Excl.
140	Single leaf acoustical wooden doors, including frame, finish and hardware (none indicated)	EA	2.00		Excl.
139	Double leaf acoustical wooden doors, including frame, finish and hardware (none indicated)	Pair	12.00		Excl.
C1030 - Interior Doors				3.39/SF	1,290,640
C1040	Interior Grilles and Gates				
113	4'-6 3/8" x 3'-9 1/8" Overhead stainless steel rolling doors, including frame, finish and hardware	EA	1.00	4,000.00	4,000
1295	7'-6 7/8" x 12'-0" Overhead rolling grills, including frame, finish and hardware	EA	3.00	21,000.00	63,000
114	8'-5" x 12'-0" Overhead rolling grills, including frame, finish and hardware	EA	3.00		Excl.
119	8'-0" x 8'-0" Overhead coiling doors, including frame, finish and hardware	EA	2.00		Excl.
123	30'-10" x 12'-0" Fire rated folding doors, including frame, finish and hardware (2 hours fire rated)	EA	1.00	130,000.00	130,000
124	12'-3" x 9'-4" Fire rated folding doors, including frame, finish and hardware (2 hours fire rated)	EA	1.00	40,000.00	40,000
127	10'-0" x 9'-4" Fire rated folding doors, including frame, finish and hardware (2 hours fire rated)	EA	2.00	32,750.00	65,500
C1040 - Interior Grilles and Gates				0.79/SF	302,500

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
C1090	Interior Specialties				
277	Restroom accessories - Toilet partition	EA	35.00	1,300.00	45,500
287	Restroom accessories - Toilet partition, ADA	EA	13.00	1,700.00	22,100
302	Restroom accessories - Urinal partition	EA	42.00	700.00	29,400
280	Restroom accessories - Tissue paper dispenser	EA	89.00	125.00	11,125
281	Restroom accessories - Grab bar	EA	137.00	180.00	24,660
305	Restroom accessories - Shower grab bar	Set	10.00	450.00	4,500
282	Restroom accessories - Napkin disposal	EA	73.00	500.00	36,500
283	Restroom accessories - Robe hook	EA	93.00	100.00	9,300
284	Restroom accessories - Soap dispenser	EA	67.00	150.00	10,050
285	Restroom accessories - Shower curtain and rod	EA	10.00	200.00	2,000
304	Restroom accessories - Shower seat	EA	10.00	600.00	6,000
291	Restroom accessories - Framed mirror	EA	67.00	800.00	53,600
292	Restroom accessories - Towel dispenser/waste receptacle	EA	59.00	850.00	50,150
303	Restroom accessories - Baby changing table - none indicated	EA	5.00		Excl.
1815	Wire mesh guardrail to Shop Mezz	LF	252.00	320.00	80,640
1537	Metal guardrail to Mezzanine	LF	425.00	300.00	127,500
802	Metal railing to auditorium	LF	135.00	250.00	33,750
301	Glass guardrail	LF	299.00	580.00	173,420
754	Allowance for elevator pit ladder, cover, etc	EA	2.00	2,500.00	5,000
319	Allowance for markerboards - 4'x4'	EA	37.00	225.00	8,325
339	Allowance for markerboards - 6'x4'	EA	39.00	350.00	13,650
1533	Allowance for markerboards - 8'x4'	EA	3.00	470.00	1,410
1534	Allowance for markerboards - 10'x4'	EA	12.00	580.00	6,960
320	Allowance for tackboards - 4'x4'	EA	41.00	170.00	6,970
335	Allowance for tackboards - 8'x4'	EA	4.00	330.00	1,320
1535	Allowance for tackboards - 12'x4'	EA	2.00	500.00	1,000
321	Allowance for visual display rails	Item			10,000
329	Metal lockers - 2 tier 15"x15" (Corridors)	EA	200.00	800.00	160,000
346	Metal lockers - 2 tier 15"x15" (Shops)	EA	411.00	800.00	328,800

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
330	Welded metal lockers - combination tier (Athletic Locker)	EA	358.00	1,300.00	465,400
347	Welded metal lockers - 1 tier (Team Locker) - none indicated	EA	244.00		Excl.
753	Allowance for janitor accessories	EA	13.00	750.00	9,750
327	Allowance for cubicle curtain at nurse's area	EA	2.00	1,800.00	3,600
1547	Allowance for cubicle curtain at Health /Medical Assisting	EA	15.00	1,800.00	27,000
328	Allowance for corner guards	Item			13,000
331	Allowance for closet and utility shelving	Item			6,000
332	Allowance for AED with cabinets	EA	12.00	2,000.00	24,000
293	Allowance for miscellaneous metals	SF	406,262.00	1.00	406,262
294	Allowance for rough carpentry	SF	406,262.00	0.75	304,696
295	Allowance for wood blocking	SF	406,262.00	1.25	507,827
296	Allowance for fire extinguisher and cabinets	EA	163.19	850.00	138,711
297	Allowance for interior signage	SF	406,262.00	0.85	345,323
298	Allowance for exterior signage	Item			15,000
807	Allowance for miscellaneous clean-up, additional labor, safety, etc. (Carpentry Trade)	SF	406,262.00	0.35	142,192
C1090 - Interior Specialties				9.65/SF	3,672,391
C10 - INTERIOR CONSTRUCTION				47.16/SF	17,947,859
C20	INTERIOR FINISHES				
C2010	Wall Finishes				
141	Ceramic tile	SF	19,110.63	18.00	343,991
142	Thin porcelain tile	SF	23,258.00	25.00	581,450
143	P-lam panels - none indicated	SF	20,000.00		Excl.
144	Wood veneer panels (Media Center)	SF	1,999.00	65.00	129,935
1810	Wood fiber acoustical panels	SF	3,256.00	45.00	146,520
145	Travertine tile - none indicated	SF	2,192.00		Excl.
146	Flat lock metal tiles	SF	664.00	80.00	53,120
1681	Perforated metal panels (Auditorium)	SF	670.00		Excl.
1683	Decorative wood panels (Auditorium)	SF	6,273.00		Excl.
1682	Decorative wood acoustic wall reflector (Auditorium)	SF	1,890.00		Excl.

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
147	Decorative fabric metal panels (Auditorium)	SF	474.00		Excl.
148	FRP panels	SF	7,392.00	25.00	184,800
781	Vinyl wall covering (Auditorium)	SF	1,175.00	40.00	47,000
782	Fabric wrap acoustical panel	SF	6,707.00	40.00	268,280
170	Prepare and apply epoxy paint	SF	257,181.87	3.50	900,136
172	Prepare and apply paint to GWB	SF	209,990.00	1.25	262,488
173	Prepare and apply paint to precast concrete - none indicated	SF	14,518.00		Excl.
841	Plastic laminate window sills	LF	2,334.60	75.00	175,095
1670	Metal column cover	SF	304.00	135.00	41,040
1678	Phenolic resin panels	SF	2,357.00	80.00	188,560
1970	Black Tectum wall panels	SF	1,819.00	55.00	100,045
2044	Reduce epoxy painting by 15% (TVD)	LS	1.00	-135,020.00	-135,020
C2010 - Wall Finishes				8.64/SF	3,287,440
C2030	Flooring				
2	Athletic sport flooring	SF	2,874.00	20.00	57,480
3	Carpet	SY	2,193.00	75.00	164,475
1418	Resilient carpet	SF	3,955.00	6.00	23,730
1398	Porcelain floor tiles	SF	20,140.00	30.00	604,200
4	Ceramic mosaic tile	SF	4,392.50	20.00	87,850
5	Sealed concrete	SF	98,116.66	1.50	147,175
6	Epoxy flooring and base	SF	14,343.82	15.00	215,157
7	Epoxy terrazzo and base	SF	8,366.00		Excl.
8	Foot grille carpet - athletic cleat resistant	SF	807.00	70.00	56,490
9	Linoleum	SF	134,246.00	10.00	1,342,460
14	Rubber tile	SF	12,394.80	15.00	185,922
16	Rubber tile - athletic cleat resistant	SF	904.00	45.00	40,680
17	Sheet vinyl with integral base	SF	27,005.00	12.00	324,060
18	Sheet vinyl - slip resistant	SF	1,504.00	12.00	18,048
1401	Luxury vinyl tile	SF	6,574.00	8.00	52,592
19	Walk off carpet	SY	268.10	65.00	17,426
20	Wood athletic flooring	SF	11,976.00	20.00	239,520

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
21	Wood sprung stage flooring	SF	2,709.00	25.00	67,725
10	Resilient base	LF	29,682.39	5.00	148,412
1744	Sheet vinyl base	LF	5,261.00	5.00	26,305
1707	Porcelain tile base	LF	1,297.00	25.00	32,425
11	Ceramic tile base	LF	6,376.09	20.00	127,522
12	Vent rubber base	LF	439.00	7.00	3,073
815	High performance adhesive	SF	226,275.60	2.75	622,258
C2030 - Flooring				12.10/SF	4,604,985
C2040	Stair Finishes				
15	Rubber stair treads and risers	SF	7,625.10	25.00	190,627
1440	Terrazzo stair treads and risers	SF	730.00		Excl.
1441	Wood stair treads and risers	SF	94.00	30.00	2,820
1445	Carpet stair treads and risers	SF	307.00		Excl.
1812	Porcelain paver to treads and risers	SF	730.00	35.00	25,550
C2040 - Stair Finishes				0.58/SF	218,997
C2050	Ceiling Finishes				
31	Acoustic ceiling (ACT-1) - 2' x 2' NRC acoustic ceiling tile	SF	160,467.80	8.00	1,283,742
32	Acoustic ceiling (ACT-2) - 2' x 2' Washable acoustic ceiling tile	SF	5,199.00	8.00	41,592
33	Acoustic ceiling (ACT-3) - 2' x 2' NRC tegular acoustic ceiling tile	SF	8,574.00	8.00	68,592
34	Acoustic ceiling (ACT-4) - 2' x 6' NRC tegular acoustic ceiling tile	SF	3,060.00	12.00	36,720
1447	Acoustic ceiling (ACT-5)	SF	6,488.00	12.00	77,856
46	Acoustic preformed ceiling panels at Media Center	SF	2,096.00	65.00	136,240
1455	Acoustic ceiling reflector at Stage	SF	332.00	95.00	31,540
1971	Acoustic ceiling reflector above Auditorium seatings	SF	2,056.00	95.00	195,320
35	Aluminum vertical blade ceiling system (non acoustic - per DRA) - none indicated	SF	4,861.00		Excl.
36	Aluminum composite material - none indicated	SF	2,593.00		Excl.
37	Gypsum board ceiling	SF	27,261.20	20.00	545,224
41	Gypsum board ceiling, moisture resistant	SF	12,062.53	25.00	301,563

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1453	Phenolic panel ceiling	SF	18.00	125.00	2,250
1454	IWP wood ceiling	SF	136.00	65.00	8,840
149	Mesh metal ceiling	SF	735.00		Excl.
47	Mesh metal ceiling with acrylic panel backing	SF	1,174.00		Excl.
38	Linear metal ceiling with wood appearance	SF	14,114.00	65.00	917,410
39	Paint to gypsum board ceiling	SF	49,257.63	1.50	73,887
40	Paint to exposed ceiling	SF	100,350.10	1.50	150,525
42	Sound barrier ceiling - 2 layer 5/8" GWB over 7/8" metal furring and 1-1/2" cold rolled channels with 3-1/2" batt insulation	SF	53,701.00	30.00	1,611,030
75	Allowance for gypsum board soffit - allow 20% of GWB	SF	5,452.60	25.00	136,315
2036	Replace ceiling finishes with 2' x 2' ACT (TVD)	LS	1.00	-500,000.00	-500,000
	C2050 - Ceiling Finishes			13.45/SF	5,118,646
	C20 - INTERIOR FINISHES			34.76/SF	13,230,068
D10	CONVEYING				
D1010	Vertical Conveying Systems				
687	Traction passenger elevator, 5 stops, open both sides, 5000 pounds	EA	1.00	385,000.00	385,000
751	Traction passenger elevator, 4 stops, 3500 pounds	EA	1.00	350,000.00	350,000
1791	Allowance for elevator usage to support miscellaneous trades	LS	1.00		Excl.
	D1010 - Vertical Conveying Systems			1.93/SF	735,000
	D10 - CONVEYING			1.93/SF	735,000
D20	PLUMBING				
D2010	Domestic Water Distribution				
421	Plumbing Fixtures	Note			
1082	P-1, Water Closet - Flush Valve - Wall Mounted	EA	35.00	1,700.00	59,500
1083	P-1A, Water Closet - Flush Valve - Wall Mounted, accessible	EA	54.00	1,850.00	99,900
1084	P-2, Urinal - Wall Hung	EA	7.00	1,600.00	11,200
1085	P-2A, Urinal - Wall Hung, accessible	EA	25.00	1,700.00	42,500
1086	P-3, Lavatory - Rectangular - Wall Mounted 19X17	EA	52.00	1,450.00	75,400
1087	P-3B, Basin Type Lavatory - Oval	EA	9.00	1,250.00	11,250

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1088	P-3C, Restroom Lavatory - Oval	EA	6.00	1,250.00	7,500
1089	P-4,Mop Receptor	EA	6.00	1,600.00	9,600
1090	P-5, Drinking Fountain - Recessed	EA	9.00	2,800.00	25,200
1091	P-5A, Drinking Fountain - Bi-Level - Wall Mounted	EA	2.00	3,800.00	7,600
1092	P-6,Shower Base	EA	9.00	2,500.00	22,500
1093	P-7, Emergency Eye Wash	EA	4.00	1,500.00	6,000
1094	P-8, Emergency Eyewash-Shower	EA	27.00	2,200.00	59,400
1095	PX-1, Sink - Casework Sink - Furnished by others - Install only	EA	45.00	450.00	20,250
1096	PX-2, Sink - Casework Sink with Eyewash- Furnished by others - Install only	EA	14.00	450.00	6,300
1097	PX-3, Sink - Cosmetology Sink - Furnished by others - Install only	EA	3.00	450.00	1,350
1098	PX-4, Sink - Science Room Sink - Furnished by others - Install only	EA	46.00	450.00	20,700
1099	PX-5, Sink - Lab Sink - Furnished by others - Install only	EA	40.00	450.00	18,000
1100	PX-6, Dental Station - Furnished by others - Install only	EA	19.00	600.00	11,400
1101	WH, Wall Hydrant - Mild Climate	EA	6.00	1,750.00	10,500
1102	HB, Hose Bibb	EA	30.00	800.00	24,000
444	Allowance for additional main building fixtures not yet designed	SF	406,262.00	0.20	81,252
447	Water Distribution and Components	Note			
451	Triplex domestic water booster pump - 1000 gpm, 15 hp - allow	EA	1.00	82,000.00	82,000
453	Chlorine/PH monitor system with 100 gal. tanks - allow	EA	1.00	10,000.00	10,000
458	Chlorine/PH monitor system with 200 gal. tanks - allow	EA	1.00	18,000.00	18,000
1126	PH-1 neutralization system for science rooms - allow	EA	1.00	75,000.00	75,000
1107	EWH-1, DURAWATT-460, 90 kW, 200 gal	EA	1.00	60,000.00	60,000
1106	EWH-2, DURAWATT-460, 90 kW, 200 gal	EA	3.00	60,000.00	180,000
1105	EWH-3, DSE-100 , non potable hot water, 90 kw, 100 gal	EA	3.00	60,000.00	180,000
1104	EWH-4, DURAWATT-550, 108 kW	EA	2.00	65,000.00	130,000

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1103	EWB-5, DSE-10, 10 gal, 6 kW	EA	1.00	6,500.00	6,500
1120	Electric water heater - ceiling hung - serving toilet rooms and duplicating room sink	EA	1.00	6,500.00	6,500
1749	Allowances for electric hot water heater (OD)	EA	2.00	6,500.00	13,000
1750	Allowances for gas water heater - assumed 95 MBH, 95GPH	EA	2.00	12,000.00	24,000
1132	3/4", Reduced pressure backflow preventer - allow	EA	2.00	800.00	1,600
1125	2", Backflow preventer NPCW to science rooms	EA	1.00	2,500.00	2,500
1131	2", Reduced pressure backflow preventer - allow	EA	2.00	2,500.00	5,000
1128	6", Water meter and backflow preventer assembly	EA	1.00	13,000.00	13,000
1280	Domestic water piping, copper L, 4" - ag	LF	84.00	140.00	11,760
463	Domestic water piping, copper L, 3" - ag	LF	313.20	115.00	36,018
1349	Domestic water piping, copper L, 2 1/2" - ag	LF	108.00	75.00	8,100
466	Domestic water piping, copper L, 2" - ag	LF	1,593.90	56.00	89,259
1348	Domestic water piping, copper L, 1 1/2" - ag	LF	105.00	50.00	5,250
465	Domestic water piping, copper L, 1" - ag	LF	1,233.00	45.00	55,485
1371	Thermal pipe insulation - 4" copper pipe	LF	84.30	32.00	2,698
1370	Thermal pipe insulation - 3" copper pipe	LF	313.60	23.00	7,212
1369	Thermal pipe insulation - 2-1/2" copper pipe	LF	108.00	19.00	2,052
1368	Thermal pipe insulation - 2" copper pipe	LF	1,593.90	18.00	28,691
1366	Thermal pipe insulation - 1-1/4" to 1-1/2" copper pipe	LF	105.00	17.00	1,785
1365	Thermal pipe insulation - 1/2" to 1" copper pipe	LF	1,233.00	15.00	18,495
1373	Hookup - plumbing	EA	446.00	600.00	267,600
1333	Hookup - kitchen equipment	EA	118.00	600.00	70,800
471	Allowance for additional main building domestic water system including fixture rough in, hot & cold water piping, nonpotable piping, tempered piping etc.	SF	406,262.00	2.25	914,090
1991	Remove urinals and FD's from single occupancy toilet rooms (VE-P01)	LS	1.00	-85,000.00	-85,000
1992	Remove tempered water and tempered water circulation system (VE-P02)	LS	1.00	-120,000.00	-120,000
1993	Consider Point of use HW Heaters vs central system (VE-P03)	LS	1.00	-262,000.00	-262,000

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1994	Local Point of Use Chip Tanks in lieu of central pH System Serving Science Classrooms (VE-P04)	LS	1.00	-70,000.00	-70,000
	D2010 - Domestic Water Distribution			6.36/SF	2,420,697
D2020	Sanitary Drainage				
1496	Allowances for PH-1 neutralization system for science rooms - allow	EA	1.00	100,000.00	100,000
446	Gas/oil interceptor for garage drainage system and trench drains from shop areas	EA	5.00	20,000.00	100,000
452	Exterior grease trap, 4,000 gal.	EA	2.00	30,000.00	60,000
1499	Local 35 gpm grease trap for elevator - allow	EA	2.00	8,000.00	16,000
1079	Local 35 gpm grease trap for dishwasher	EA	1.00	8,000.00	8,000
1077	Local 50 gpm grease trap	EA	3.00	11,000.00	33,000
1080	Local 75 gpm grease trap	EA	1.00	22,000.00	22,000
1362	6", Vent c/w fittings, supports, etc, ag	LF	17.00	100.00	1,700
1359	4", Vent c/w fittings, supports, etc, ag	LF	1,757.00	75.00	131,775
1357	3", Vent c/w fittings, supports, etc, ag	LF	2,662.00	65.00	173,030
1360	8", Vent c/w fittings, supports, etc, bg	LF	497.00	160.00	79,520
1363	4", Lab waste piping c/w fittings, supports, etc. cast iron	LF	120.00	115.00	13,800
1361	3", Acid Vent piping c/w fittings, supports, etc. cast iron	LF	120.00	95.00	11,400
1356	6", sanitary piping c/w fittings,supports, etc. cast iron, ag	LF	135.00	100.00	13,500
1293	4", sanitary piping c/w fittings,supports, etc. cast iron, ag	LF	3,470.70	75.00	260,302
1355	3", sanitary piping c/w fittings,supports, etc.cast iron, ag	LF	98.00	65.00	6,370
1294	2", sanitary piping c/w fittings,supports, etc. , copper, ag	LF	32.50	44.98	1,462
1177	6", sanitary piping c/w fittings, bg - excluding excavation and backfill	LF	39.30	120.00	4,716
1570	Condensate drain piping c/w fittings,supports, etc.	LF	1,355.00	38.00	51,490
1114	FD, Floor Drain	EA	115.00	550.00	63,250
1115	Clean out	EA	22.00	350.00	7,700
1372	Hookup - plumbing	EA	426.00	600.00	255,600

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1334	W&IW Hookup - Kitchen equipment	EA	62.00	500.00	31,000
483	Allowance for additional main building sanitary system such piping, vents, ejectors, clean-out, acid waste etc.	SF	406,262.00	1.00	406,262
	D2020 - Sanitary Drainage			4.87/SF	1,851,877
D2030	Building Support Plumbing Systems				
180	RD/OD - Roof drain	EA	88.00	1,000.00	88,000
1116	Clean out - storm system	EA	67.00	350.00	23,450
1354	8", storm drain c/w fittings, supports, ag	LF	891.00	160.00	142,560
1274	6", storm drain c/w fittings, supports, ag	LF	3,166.90	100.00	316,690
1276	4", storm drain c/w fittings, supports, ag	LF	2,732.60	75.00	204,945
1353	10", storm drain c/w fittings, supports, bg	LF	173.00	270.00	46,710
1078	SP-1, 50 gpm sump pump within elevator pit	EA	1.00	7,000.00	7,000
1081	SP-2, 50 gpm sump pump within elevator pit	EA	1.00	7,000.00	7,000
1796	Allowance for additional main building rain water system	SF	406,262.00	0.20	81,252
786	Subcontractor GCs/GRs	Item			641,947
	D2030 - Building Support Plumbing Systems			4.10/SF	1,559,554
D2050	General Service Compressed-Air				
461	Compressed air piping, copper, 1 1/2"	LF	860.00	78.00	67,080
462	Compressed air piping, copper, 1"	LF	2,499.00	55.00	137,445
1108	AC-1, Auto collision/metal fabrication c/w air drier and 400 gallon air receiver tank - one allowed for room 211	No	2.00	53,448.50	106,897
1109	AC-2, Votech shops	No	1.00	33,032.00	33,032
1110	AC-3, Biotech shops	No	1.00	38,820.00	38,820
1111	AC-4, Draft and design	No	1.00	18,735.00	18,735
1112	AC-5, Dental	No	1.00	78,500.00	78,500
1113	AC-6, Robotics	No	1.00	18,735.00	18,735
1121	Compressed air drops/hook ups	No	107.00	500.00	53,500
1755	AC hookup	No	6.00	1,500.00	9,000
1745	50' Hose reel - HVAC Technology Drop	No	72.00	1,250.00	90,000
1752	Install only - hose reel - vehicle exhaust collections - auto technology	No	7.00	350.00	2,450

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1758	Allowances for additional compressed air system	SF	406,262.00	0.20	81,252
	D2050 - General Service Compressed-Air			1.93/SF	735,446
D2060	Process Support Plumbing Systems				
1753	6", natural gas, carbon steel	LF	96.00	160.00	15,360
1351	4", natural gas, carbon steel	LF	495.00	100.00	49,500
1352	2", natural gas, carbon steel	LF	159.00	60.00	9,540
1756	Allowances for misc NG valves and accessories	LS	1.00	30,000.00	30,000
1746	Main control panel at each gas hood - allow	No	8.00	4,000.00	32,000
480	Vacuum: Piping, 1", copper	LF	204.00	55.00	11,220
1747	Allowances for argon piping - allow	LF	713.00	55.00	39,215
1748	Allowances for argon tanks	LS	1.00	10,000.00	10,000
1757	Allowances for argon hookups	LS	1.00	15,000.00	15,000
481	Allowances for additional main building gas system	SF	406,262.00	0.50	203,131
1129	VAC-1, Biotech lab	No	1.00	19,700.00	19,700
1130	VAC-2, Dental	No	1.00	17,832.00	17,832
1754	VAC pump hookups	No	2.00	1,500.00	3,000
1335	Gas hookups	No	59.00	650.00	38,350
	D2060 - Process Support Plumbing Systems			1.30/SF	493,848
	D20 - PLUMBING			18.55/SF	7,061,422
D30	HVAC				
D3020	Heat Systems				
76	Gas fired condensing boilers, 3,000 MBH	EA	3.00		Excl.
242	Vertical inline boiler pump, 210 GPM	EA	3.00		Excl.
77	Secondary hot water pumps, 270 GPM, 10 HP	EA	3.00		Excl.
309	Hot water system primary/secondary loop hydraulic decoupler and air separator	EA	1.00		Excl.
79	Glycol mixing station and 55 gallon drums	EA	4.00		Excl.
80	Hot water expansion tanks	EA	7.00		Excl.
197	Chilled water buffer tank	EA	1.00		Excl.
194	Heating and ventilating unit, 17,400 CFM - HV-1	EA	1.00		Excl.
195	Heating and ventilating unit, 14,800 CFM - HV-2	EA	1.00		Excl.
196	Heating and ventilating unit, 14,800 CFM - HV-3	EA	1.00		Excl.

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
193	Heating and ventilating unit, 28,800 CFM - HV-4	EA	1.00		Excl.
81	Heating and ventilating unit, 11,700 CFM - HV-5	EA	1.00		Excl.
82	Heating and ventilating unit, 12,100 CFM - HV-6	EA	1.00		Excl.
83	Heating and ventilating unit, 19,000 CFM - HV-7	EA	1.00		Excl.
250	Split heat pump system with piping and condensate pump, 2 tons	EA	1.00		Excl.
308	Radiant floor heating - including pumps, manifold piping etc.	SF	1,800.00		Excl.
311	Hydronic heat pumps, 300 GPM/10 HP	EA	3.00		Excl.
78	Hydronic heat pump hot water system primary/secondary loop decoupler and air separator	EA	1.00		Excl.
336	Hot water ceiling radiant panels	LF	129.00		Excl.
1208	Electric unit heaters	EA	43.00	3,000.00	129,000
D3020 - Heat Systems				0.34/SF	129,000
D3030	Cooling Systems				
1667	LG HVAC equipments consisting of DX-split units, FCU c/w condenser units, branch circuit controllers, VCU's (serving RTU's, MAU's, AHU's, HRU's), etc.	LS	1.00	3,492,250.00	3,492,250
1189	AC- 0-1/6/7 / 1-3 / 2-4, DX split system air conditioning unit 3 ton, 36 mbh cooling capacity c/w outdoor air-cooled condensing unit	EA	4.00		Incl.
1190	AC- 0-2 to 0-5 / 1-1/2/4/5 / 2-1/2/3 / 2-5 to 4-7, DX split system air conditioning unit 2 ton, 24 mbh cooling capacity c/w outdoor air-cooled condensing unit	EA	28.00		Incl.
1429	DX-cooled split system air conditioning unit 2 ton c/w outdoor condenser unit, refrigeration piping, condensate drain piping, etc.	EA	3.00		Incl.
1193	FCU, DX-cooled fan coil units 0.5 ton	EA	43.00		Incl.
1194	FCU, DX-cooled fan coil units 0.6 ton	EA	20.00		Incl.
1195	FCU, DX-cooled fan coil units 0.8 ton	EA	23.00		Incl.
1197	FCU, DX-cooled fan coil units 1 ton	EA	9.00		Incl.
1196	FCU, DX-cooled fan coil units 1.3 ton	EA	6.00		Incl.
1198	FCU, DX-cooled fan coil units 1.5 ton	EA	19.00		Incl.
1200	FCU, DX-cooled fan coil units 2 ton	EA	43.00		Incl.
1202	FCU, DX-cooled fan coil units 2.3 ton	EA	12.00		Incl.

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1203	FCU, DX-cooled fan coil units 3 ton	EA	65.00		Incl.
1204	FCU, DX-cooled fan coil units 3.5 ton	EA	16.00		Incl.
1205	FCU, DX-cooled fan coil units 4 ton	EA	12.00		Incl.
1206	FCU, DX-cooled fan coil units 4.5 ton	EA	2.00		Incl.
1254	CU, Air-cooled VRF condensing unit, 6 ton	EA	2.00		Incl.
1256	CU, Air-cooled VRF condensing unit, 8 ton	EA	3.00		Incl.
1257	CU, Air-cooled VRF condensing unit, 10 ton	EA	6.00		Incl.
1258	CU, Air-cooled VRF condensing unit, 12 ton	EA	4.00		Incl.
1259	CU, Air-cooled VRF condensing unit, 14 ton	EA	3.00		Incl.
1260	CU, Air-cooled VRF condensing unit, 16 ton	EA	3.00		Incl.
1261	CU, Air-cooled VRF condensing unit, 18 ton	EA	11.00		Incl.
1568	Refrigeration piping c/w fittings,supports, etc.	LF	52,802.00	45.00	2,376,090
1684	Allowance for refrigerant	Lb	12,700.00	25.00	317,500
1709	RTU - hook ups	EA	3.00	750.00	2,250
1710	MAU - hook ups	EA	2.00	750.00	1,500
1711	HRU - hook ups	EA	4.00	750.00	3,000
1712	AHU - hook ups	EA	11.00	750.00	8,250
1713	ERV - hook ups	EA	4.00	750.00	3,000
D3030 - Cooling Systems				16.30/SF	6,203,840
D3050	Facility HVAC Distribution Systems				
1677	YORK HVAC equipments consisting of RTU's, AHU's, MAU's and HRU's	LS	1.00	7,508,750.00	7,508,750
1154	RTU-1, DX-cooled roof-top air handling unit, 5,300 cfm c/w air-cooled VRF condensing units (3 x 16 ton & 3 x 8 ton), electric pre heat, etc.	EA	1.00		Incl.
1155	RTU-2, DX-cooled roof-top air handling unit, 5,000 cfm c/w air-cooled VRF condensing units (14 ton & 8 ton), electric pre heat, etc.	EA	1.00		Incl.
1156	RTU-3, DX-cooled roof-top air handling unit, 21,000 cfm c/w air-cooled VRF condensing units (3 x 18 ton & 3 x 12 ton), electric pre heat, etc.	EA	1.00		Incl.
1157	MAU-1, DX-cooled make-up air unit, 6,000 cfm c/w air-cooled VRF condensing units (2 x 10 ton), electric pre heat, etc.	EA	1.00		Incl.

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1158	MAU-2, DX-cooled make-up air unit, 18,000 cfm c/w air-cooled VRF condensing units (3 x 18 ton & 3 x 8 ton), electric pre heat, etc.	EA	1.00		Incl.
1159	AHU-1, DX-cooled indoor air handling unit, 8,300 cfm c/w air-cooled VRF condensing units (2 x18 ton), electric pre heat, etc.	EA	1.00		Incl.
1160	AHU-2, DX-cooled indoor air handling unit, 9,100 cfm c/w air-cooled VRF condensing units (2 x 20 ton), electric pre heat, etc.	EA	1.00		Incl.
1161	AHU-3 & 4, DX-cooled indoor air handling unit, 15,000 cfm c/w air-cooled VRF condensing units (2 x18 ton & 2 x14 ton), electric pre heat, etc.	EA	2.00		Incl.
1162	AHU-5 & 6, DX-cooled indoor air handling unit, 10,800 cfm c/w air-cooled VRF condensing units (2 x16 ton & 2 x 6 ton), electric pre heat, etc.	EA	2.00		Incl.
1163	AHU-7, DX-cooled indoor air handling unit, 12,000 cfm c/w air-cooled VRF condensing units (4 x12 ton), electric pre heat, etc.	EA	1.00		Incl.
1164	AHU-8, DX-cooled indoor air handling unit, 15,060 cfm c/w air-cooled VRF condensing units (4 x16 ton), electric pre heat, etc.	EA	1.00		Incl.
1165	AHU-9, DX-cooled indoor air handling unit, 13,000 cfm c/w air-cooled VRF condensing units (4 x16 ton), electric pre heat, etc.	EA	1.00		Incl.
1166	AHU-10, DX-cooled indoor air handling unit, 14,000 cfm c/w air-cooled VRF condensing units (4 x16 ton), electric pre heat, etc.	EA	1.00		Incl.
1167	AHU-11, DX-cooled indoor air handling unit, 4,500 cfm c/w air-cooled VRF condensing units (4 x16 ton), electric pre heat, etc.	EA	1.00		Incl.
1142	ERV-1, Energy recovery ventilator, 1,160 cfm, c/w air-cooled VRF condensing unit, electric pre heat, etc.	EA	1.00	79,100.00	79,100
1143	ERV-2, Energy recovery ventilator, 460 cfm, c/w air-cooled VRF condensing unit, electric pre heat, etc.	EA	1.00	11,200.00	11,200
1144	ERV-3, Energy recovery ventilator, 1,300 cfm, c/w air-cooled VRF condensing unit, electric pre heat, etc.	EA	1.00	79,100.00	79,100
1145	ERV-4, Energy recovery ventilator, 1,420 cfm, c/w air-cooled VRF condensing unit, electric pre heat, etc.	EA	1.00	79,425.00	79,425

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1150	HRU-1 & 2, DX-cooled dedicated outdoor air roof-top units, 17,000 cfm c/w air-cooled VRF condensing units (3 x10 & 3 x 8 ton), electric pre heat, etc.	EA	2.00		Incl.
1151	HRU-3, DX-cooled dedicated outdoor air roof-top units, 18,500 cfm c/w air-cooled VRF condensing units (3 x10 & 3 x 8 ton), electric pre heat, etc.	EA	1.00		Incl.
1153	HRU-4, DX-cooled dedicated outdoor air roof-top units, 7,900 cfm c/w air-cooled VRF condensing units (2 x 18 ton), electric pre heat, etc.	EA	1.00		Incl.
1660	Air-cooled VRF condensing units (serving RTU's)	EA	14.00		Incl.
1664	Air-cooled VRF condensing units (serving MAU's)	EA	8.00		Incl.
1665	Air-cooled VRF condensing units (serving AHU's)	EA	40.00		Incl.
1666	Air-cooled VRF condensing units (serving HRU's)	EA	20.00		Incl.
1168	F-1 & 8, Exhaust fan, 600 cfm	EA	2.00	2,350.00	4,700
1169	F-2 & 17, Exhaust fan, 900 cfm	EA	2.00	2,900.00	5,800
1170	F-3 & 4, Exhaust fan, 9,600 cfm	EA	2.00	19,200.00	38,400
1171	F-5, Exhaust fan, 2,600 cfm	EA	1.00	3,000.00	3,000
1172	F-6 & 14, Exhaust fan, 1,300 cfm	EA	2.00	11,100.00	22,200
1174	F-7, Exhaust fan, 2,100 cfm	EA	1.00	2,650.00	2,650
1175	F-9, Exhaust fan, 500 cfm	EA	1.00	2,000.00	2,000
1176	F-10, Exhaust fan, 2,560 cfm	EA	1.00	2,900.00	2,900
1178	F-11 & 12, Exhaust fan, 750 cfm	EA	2.00	18,000.00	36,000
1180	F-13, Exhaust fan, 7,800 cfm	EA	1.00	8,775.00	8,775
1181	F-15 & 16, Exhaust fan, 15,000 cfm	EA	2.00	10,500.00	21,000
1182	F-18, Exhaust fan, 415 cfm	EA	1.00	1,950.00	1,950
1183	KEF-1, Kitchen exhaust fan, 2,800 cfm	EA	1.00	7,500.00	7,500
1184	KEF-2, Kitchen exhaust fan, 3,300 cfm	EA	1.00	7,500.00	7,500
1185	KEF-3, Kitchen exhaust fan, 1,850 cfm	EA	1.00	7,150.00	7,150
1186	KEF-4, Kitchen exhaust fan, 2,365 cfm	EA	1.00	7,500.00	7,500
1188	KEF-5, Kitchen exhaust fan, 9,390 cfm	EA	1.00	10,725.00	10,725
1191	DC-1, Dust collector, 12,000 cfm	EA	1.00	460,300.00	460,300
1192	BS, VRF branch circuit selector	EA	47.00		Incl.
1209	Air cleaners (Airboss 2500)	EA	3.00	4,000.00	12,000

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1305	VAV box (medium)	EA	5.00	1,500.00	7,500
1306	VAV box (large)	EA	1.00	2,000.00	2,000
1298	VAV boxes c/w electric heating coil, 1.5 kW	EA	1.00	1,500.00	1,500
1314	VAV boxes c/w electric heating coil, 4 kW	EA	2.00	2,000.00	4,000
1309	VAV boxes c/w electric heating coil, 6 kW	EA	3.00	3,000.00	9,000
1313	VAV boxes c/w electric heating coil, 10.5 kW	EA	1.00	3,500.00	3,500
1315	Fan powered VAV box c/w electric heating coil, 6 kW	EA	1.00	2,500.00	2,500
1310	Fan powered VAV box c/w electric heating coil, 7.5 kW	EA	3.00	3,000.00	9,000
1216	Galvanized duct work c/w fittings, supports, etc.	Lb	344,250.00	15.00	5,163,750
1217	Thermal insulation	SF	229,500.39	7.00	1,606,503
1593	4", Round galvanized duct work c/w fittings, supports, etc	LF	185.00	60.00	11,100
1243	5" to 6", Round galvanized duct work c/w fittings, supports, etc	LF	276.00	65.00	17,940
1244	7", Round galvanized duct work c/w fittings, supports, etc	LF	27.00	70.00	1,890
1242	8", Round galvanized duct work c/w fittings, supports, etc	LF	934.00	70.00	65,380
1219	10", Round galvanized duct work c/w fittings, supports, etc	LF	427.00	80.00	34,160
1346	12", Round galvanized duct work c/w fittings, supports, etc	LF	82.00	80.00	6,560
1241	14", Round galvanized duct work c/w fittings, supports, etc	LF	17.00	85.00	1,445
1245	18", Round galvanized duct work c/w fittings, supports, etc	LF	80.00	90.00	7,200
1317	24", Round galvanized duct work c/w fittings, supports, etc	LF	37.00	95.00	3,515
1220	30", Round galvanized duct work c/w fittings, supports, etc	LF	320.00	125.00	40,000
1221	32", Round galvanized duct work c/w fittings, supports, etc	LF	109.00	125.00	13,625
1396	34", Round galvanized duct work c/w fittings, supports, etc	LF	56.00	130.00	7,280

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1223	36", Round galvanized duct work c/w fittings, supports, etc	LF	353.00	130.00	45,890
1224	38", Round galvanized duct work c/w fittings, supports, etc	LF	1,079.00	140.00	151,060
1225	40", Round galvanized duct work c/w fittings, supports, etc	LF	547.00	150.00	82,050
1395	42", Round galvanized duct work c/w fittings, supports, etc	LF	373.00	155.00	57,815
1226	44", Round galvanized duct work c/w fittings, supports, etc	LF	497.00	155.00	77,035
1347	48", Round galvanized duct work c/w fittings, supports, etc	LF	260.00	160.00	41,600
1397	50", Round galvanized duct work c/w fittings, supports, etc	LF	275.00	160.00	44,000
1228	60", Round SS duct work c/w fittings, supports, etc	LF	362.00	180.00	65,160
1302	Diffusers (small)	EA	38.00	150.00	5,700
1218	Diffusers (medium)	EA	101.00	250.00	25,250
1301	LS15, Linear slot diffuser, 4"	EA	47.00	400.00	18,800
1290	Grilles (small)	EA	2.00	100.00	200
1300	Grilles (medium)	EA	13.00	200.00	2,600
1303	Grilles (large)	EA	16.00	300.00	4,800
1236	Louver	SF	818.88	75.00	61,416
1399	Plenum, 24"x24"	EA	2.00	1,500.00	3,000
1321	Plenum, 48"x4"	EA	17.00	1,750.00	29,750
1247	Plenum, 96"x50"	EA	1.00	2,250.00	2,250
1250	Plenum, 96"x78"	EA	1.00	2,500.00	2,500
1237	Plenum, 150"x50"	EA	1.00	2,850.00	2,850
1238	Plenum, 136"x36"	EA	1.00	3,000.00	3,000
1246	Tubing storage reel (CAR-MON TSR-S32)	EA	2.00	1,800.00	3,600
1248	Tubing storage reel (CAR-MON TSR-S24)	EA	7.00	1,500.00	10,500
1299	BD, Balancing damper	EA	50.00	500.00	25,000
1572	Combination fire/smoke damper	EA	58.00	750.00	43,500
1582	Air control valve, 8"	EA	27.00	9,000.00	243,000
1567	Allowance for miscellaneous/missing items	SF	406,262.00	4.00	1,625,048

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
360	Hot water supply - 6"	LF	1,274.00		Excl.
361	Hot water return - 6"	LF	1,244.00		Excl.
375	Hot water supply, secondary - 6"	LF	183.00		Excl.
376	Hot water return, secondary - 6"	LF	181.00		Excl.
394	Hot water supply - 4"	LF	1,704.00		Excl.
395	Hot water return - 4"	LF	1,742.00		Excl.
685	Allowance for hot water distribution	SF	406,262.00		Excl.
382	Chilled water supply - 6"	LF	142.00		Excl.
383	Chilled water return - 6"	LF	140.00		Excl.
384	Chilled water supply, secondary - 8"	LF	74.00		Excl.
385	Chilled water return, secondary - 8"	LF	63.00		Excl.
392	Chilled water supply - 5"	LF	2,097.00		Excl.
393	Chilled water return - 5"	LF	2,059.00		Excl.
779	Pipe insulation	LF	10,896.00		Excl.
780	Allowance for chilled water distribution	SF	406,262.00		Excl.
790	Allowance for refrigerant and condensate distribution	SF	406,262.00		Excl.
792	Allowance for supplementary equipment not yet designed	SF	406,262.00		Excl.
403	Allowance for instrumentation and controls	SF	406,262.00		Excl.
333	Dryer exhaust booster fan	EA	1.00		Excl.
313	Boiler and dedicated equipment exhaust & combustion intake vents	EA	23.00		Excl.
245	Automotive exhaust system with 12 exhaust connection	EA	1.00		Excl.
57	Hydronic heat pump with integral pump system. 110 nominal ton	EA	3.00		Excl.
D3050 - Facility HVAC Distribution Systems				47.60/SF	18,116,347
D3060	Controls & Instrumentations				
1592	CO/NO2 monitoring system c/w sensors	EA	1.00	1,500.00	1,500
1708	BAS control system c/w computer station, graphics, wiring, testing etc.	SF	406,262.00	3.50	1,421,917
D3060 - Controls & Instrumentations				3.74/SF	1,423,417

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
D3070	Special Purpose HVAC Systems				
783	Testing, balancing and commissioning	SF	406,262.00	1.00	406,262
1560	General requirements: supervision, shop drawings, asbuilt, tags, markers, tools, rentals, BIM, cleaning, storage, material handling, seismic restraints, permits, fees etc.	Item			2,502,000
1972	Anticipated savings due to AHU-9, VCU-9A/9B/9C, etc. capacity reduction	LS	1.00	-150,000.00	-150,000
1995	Re-locate existing dust collector and re-use it serve new carpentry shop (VE-M01)	LS	1.00	-407,688.00	-407,688
1996	Reduce gymnasium HVAC unit cooling capacity to provide partial cooling in gymnasium (VE-M02)	LS	1.00	-109,815.00	-109,815
1997	Revise ERV-1 and 2 to Renewaite in ceiling type and duct to louvers/grilles on the exterior of the building near the area each unit is serving (VE-M03)	LS	1.00	-40,000.00	-40,000
1998	Revise ERV-1 and 2 to constant volume (VE-M04)	LS	1.00	-12,000.00	-12,000
1999	Reduce quantity of spray booths and powder coating booths in Auto Collision be reduced to 1 each (VE-M06)	LS	1.00	-147,020.00	-147,020
2000	Reduce the quantity of welding booths in Metal fab for a maximum total exhaust of 7,800 CFM (VE-M07)	LS	1.00	-97,000.00	-97,000
2001	Eliminate full cooling at Shops (VE-M11)	LS	1.00	-300,000.00	-300,000
	D3070 - Special Purpose HVAC Systems			4.32/SF	1,644,739
	D30 - HVAC			72.31/SF	27,517,343
D40	FIRE PROTECTION				
D4010	Fire Suppression				
787	General requirements: supervision, shop drawings, asbuilt, tags, markers, tools, rentals, BIM, cleaning, storage, material handling, seismic restraints, permits, fees etc.	Item			273,000
1508	FP water service connection, 10"	EA	1.00	10,000.00	10,000
1540	Fire department valve assembly, 2-1/2"	EA	40.00	1,200.00	48,000
1510	Fire pump, 750 gpm	EA	1.00	73,500.00	73,500
1515	JP, Jockey pump	EA	2.00	8,500.00	17,000
1507	Double check valve assembly, 8"	EA	2.00	10,000.00	20,000

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1521	Backflow preventer, 6"	EA	3.00	7,000.00	21,000
1506	Heat trace controller	EA	3.00	1,500.00	4,500
1514	FPT, Fire protection test header	EA	1.00	1,500.00	1,500
1512	Main alarm check valve, 6"	EA	3.00	2,200.00	6,600
491	Tamper switch	EA	15.00	1,800.00	27,000
490	PRV control valve	EA	1.00	10,000.00	10,000
1559	Roof hydrant assembly	EA	1.00	1,500.00	1,500
1502	Allowance for sprinklers c/w branch piping, fittings, supports	EA	896.00	450.00	403,200
1523	2.5" SPK, Fire speciality piping c/w fittings, supports, etc.	LF	842.00	85.00	71,570
1504	4" SPK, Fire speciality piping c/w fittings, supports, etc.	LF	8,256.00	120.00	990,720
1497	6" FSP, Fire specialty piping c/w fittings, supports, etc.	LF	5,074.00	165.00	837,210
1513	8" FSP, Fire specialty piping c/w fittings, supports, etc.	LF	37.00	200.00	7,400
1546	3", Stand piping c/w fittings, supports, etc.	LF	305.00	90.00	27,450
1558	6", Stand piping c/w fittings, supports, etc.	LF	255.00	165.00	42,075
1548	2" to 3", Drain piping c/w fittings, supports, etc.	LF	255.00	90.00	22,950
1498	Zone control valve assembly, 4"	EA	18.00	3,000.00	54,000
1539	Manual type post indicator valve	EA	10.00	2,000.00	20,000
1525	Cap, 2.5"	EA	7.00	150.00	1,050
1516	Cap, 4"	EA	29.00	200.00	5,800
1517	Cap, 6"	EA	5.00	300.00	1,500
D4010 - Fire Suppression				7.88/SF	2,998,525
D40 - FIRE PROTECTION				7.88/SF	2,998,525
D50	ELECTRICAL				
D5020	Electrical Service and Distribution				
945	Main switchboard 4000 amps (double ended)	EA	1.00	185,700.00	185,700
946	Primary 4000 amp service #1	EA	1.00	23,500.00	23,500
947	Primary 4000 amp service #2	EA	1.00	23,500.00	23,500
948	Emergency generator 300 kva (by utility company)	Note			
949	Transfer switch 600 amps	EA	1.00	34,500.00	34,500

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
950	Transfer switch 400 amps	EA	2.00	26,800.00	53,600
952	Panel SB-DPH-LLA 800 amps	EA	1.00	32,800.00	32,800
953	Panel EM-DPH-LLA 400 amps	EA	1.00	23,600.00	23,600
954	Panel EM-DPH-ELEV-LLA 400 amps	EA	1.00	23,600.00	23,600
955	Elev #1 200 amps	EA	1.00	2,280.00	2,280
956	Elev #2 200 amps	EA	1.00	2,280.00	2,280
957	ELEV disconnect 200 amps	EA	2.00	2,200.00	4,400
958	Fire pump connection	EA	1.00	1,475.00	1,475
960	DPH-LLA 1200 amps	EA	1.00	38,500.00	38,500
961	DPH-LLB 1200 amps	EA	1.00	38,500.00	38,500
962	DPH-LLC 1200 amps	EA	1.00	38,500.00	38,500
963	DPH-LLD 1200 amps	EA	1.00	38,500.00	38,500
964	MPH-4A 1200 amps	EA	1.00	38,500.00	38,500
965	MPH--4B 800 amps	EA	1.00	32,800.00	32,800
966	MPH-4C 800 amps	EA	1.00	32,800.00	32,800
967	Disconnect switches 60 amps	EA	4.00	625.00	2,500
968	Disconnect switches 100 amps	EA	12.00	950.00	11,400
969	Disconnect switches 200 amps	EA	12.00	1,850.00	22,200
970	EWB #1 & #2 200 amp connection	EA	2.00	2,350.00	4,700
971	Disconnects 400 amps	EA	9.00	2,350.00	21,150
972	System metering	EA	1.00	145,800.00	145,800
973	System grounding	EA	1.00	12,800.00	12,800
974	Coordination Study	EA	1.00	35,400.00	35,400
975	Arc Flash	EA	1.00	22,500.00	22,500
977	Panels 225 amps	EA	18.00	4,650.00	83,700
978	Panels 400 amps	EA	19.00	5,450.00	103,550
979	Panels 100 amps	EA	12.00	3,250.00	39,000
986	Panel GEN-EM-DPH-LLA 600 amps	EA	1.00	36,200.00	36,200
987	Generator emergency grounding	EA	1.00	8,540.00	8,540
989	Dry transformer - 30kVA	EA	12.00	3,875.00	46,500
991	Dry transformer - 75kVA	EA	2.00	5,250.00	10,500
992	Dry transformer - 115kVA	EA	19.00	8,575.00	162,925

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
993	Dry transformer - 225kVA	EA	2.00	12,500.00	25,000
1717	Feeders 60 amps	LF	12,400.00	21.98	272,552
1718	Feeders 90 amps	LF	6,220.00	32.79	203,954
1719	Feeders 100 amps	LF	4,160.00	36.74	152,838
1720	Feeders 150 amps	LF	960.00	46.22	44,371
1721	Feeder 200 amps	LF	3,600.00	67.50	243,000
1722	Feeders 225 amps	LF	4,860.00	73.50	357,210
1723	Feeders 400 amps	LF	6,120.00	135.00	826,200
1724	Feeders 600 amps	LF	640.00	203.15	130,016
1725	Feeders 800 amps	LF	840.00	304.75	255,990
1726	Feeders 1200 amps	LF	1,920.00	560.15	1,075,488
1727	Feeders 4000 amps	LF	460.00	1,680.50	773,030
1729	400 amps temporary transfer switch for roll up generator	EA	1.00	23,500.00	23,500
1730	Emergency generator communication conduit & wire	EA	1.00	18,500.00	18,500
1818	Panel Sub-Metering 100 amps BFM-II and c/t's	EA	34.00	5,720.00	194,480
1819	Panel Sub-Metering 225 amps	EA	25.00	5,825.00	145,625
1820	Panel Sub-Metering 400 amps	EA	21.00	6,460.00	135,660
1821	Panel Sub-Metering 1200 amps	EA	1.00	6,020.00	6,020
1822	Panel Sub-Metering 1600 amps	EA	1.00	6,220.00	6,220
1823	Panel Sub-Metering 2000 amps	EA	1.00	6,620.00	6,620
1824	Panel Sub-Metering misc add ons computer monitoring etc.	EA	1.00	5,000.00	5,000
1825	Panel Sub-Metering branch metering 20 amps	EA	60.00	565.00	33,900
D5020 - Electrical Service and Distribution				16.75/SF	6,373,874
D5030	General Purpose Electrical Power				
1001	Mechanical connections (VFD) 30 amps	EA	51.00	4,360.00	222,360
1002	Mechanical connections (VFD) 60 amps	EA	53.00	6,404.00	339,412
1003	Mechanical connections (VFD) 100 amps	EA	5.00	7,066.00	35,330
1004	Mechanical connections (VFD) 200 amps	EA	5.00	18,322.00	91,610
1005	Mechanical connections (VFD) 400 amps	EA	1.00	34,400.00	34,400
1528	Rec exp proof	EA	6.00	5,645.00	33,870

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1529	Rec and cord drop	EA	67.00	1,850.00	123,950
1530	Power floor box	EA	75.00	725.00	54,375
1531	Rec power	EA	683.00	225.00	153,675
1532	Rec GFI	EA	118.00	325.00	38,350
1551	Rec power Special rec 30 amps	EA	43.00	650.00	27,950
1556	Rec quad	EA	210.00	285.00	59,850
1557	Power junction box and equipment connection	EA	14.00	140.00	1,960
1731	Power conduit & wire	EA	1,216.00	175.00	212,800
1781	Kitchen equipment rough-in & connections	EA	149.00	990.00	147,510
1783	Shop equipment connections dust collector	EA	1.00	12,500.00	12,500
1784	Vehicle Co2 system connction (power)	EA	1.00	1,625.00	1,625
D5030 - General Purpose Electrical Power				4.18/SF	1,591,527
D5040	Lighting				
764	School stage lighting	EA	1.00	110,000.00	110,000
765	School theatrical lighting & controls	EA	1.00	250,000.00	250,000
1014	Lighting type DPA 32" pendant	EA	6.00	850.00	5,100
1015	Lighting type GPA 48" pendant	EA	2.00	610.00	1,220
1016	Lighting type GPB 18" tall pendant	EA	72.00	840.00	60,480
1019	Lighting type GPE 26" circle pendant	EA	4.00	1,540.00	6,160
1020	Lighting type GPF 118" circle pendant	EA	4.00	2,010.00	8,040
1021	Lighting type GPH 6" pendant	EA	16.00	790.00	12,640
1022	Lighting type GPJ 30" stem pendant	EA	5.00	730.00	3,650
1023	Lighting type GSA 36" dia pendant	EA	4.00	960.00	3,840
1024	Lighting type GSB 11" round surface	EA	6.00	610.00	3,660
1025	Lighting type GSC surface linear	EA	17.00	420.00	7,140
1026	Lighting type GWA wall cove light	EA	8.00	1,700.00	13,600
1027	Lighting type GWB wall exterior	EA	9.00	560.00	5,040
1028	Lighting type GWC wall up/down exterior	EA	15.00	870.00	13,050
1029	Lighting type LPA pendant linear	EA	174.00	870.00	151,380
1030	Lighting type LPB pendant linear	EA	14.00	1,010.00	14,140
1031	Lighting type LPC pendant linear	EA	11.00	990.00	10,890
1032	Lighting type LPE pendant linear	EA	26.00	880.00	22,880

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1033	Lighting type LPF circle pendant linear	EA	5.00	2,510.00	12,550
1035	Lighting type LSA undercabinet	EA	23.00	390.00	8,970
1036	Lighting type LSB linear cove	EA	24.00	2,100.00	50,400
1038	Lighting type LSD surface w/p	EA	164.00	850.00	139,400
1039	Lighting type LSE linear al channeled	EA	25.00	820.00	20,500
1040	Lighting type LSF linear	EA	4.00	1,040.00	4,160
1043	Lighting type LSI led strip	EA	2.00	1,080.00	2,160
1044	Lighting typeLSJ linear strip	EA	7.00	580.00	4,060
1045	Lighting type LSK linear strip	EA	4.00	610.00	2,440
1046	Lighting type LSL direct linear	EA	8.00	1,080.00	8,640
1047	Lighting type PA 8" pendant	EA	12.00	790.00	9,480
1049	Lighting type PC 7" pendant	EA	43.00	1,080.00	46,440
1050	Lighting type PD 7" pendant	EA	8.00	1,040.00	8,320
1051	Lighting type PE 30" pendant	EA	5.00	980.00	4,900
1052	Lighting type RA 2 X 2 recessed	EA	63.00	440.00	27,720
1053	Lighting type RB 2 X 2 recessed	EA	48.00	640.00	30,720
1054	Lighting type RC downlight	EA	131.00	680.00	89,080
1055	Lighting type RD food downlight	EA	52.00	470.00	24,440
1056	Lighting type RE 6" downlight	EA	64.00	410.00	26,240
1057	Lighting type RF 3" downlight	EA	6.00	470.00	2,820
1058	Lighting type RG 2 X 4 recessed	EA	14.00	580.00	8,120
1059	Lighting type RH 2 X 4 recessed troffer	EA	49.00	590.00	28,910
1060	Lighting type RI downlight	EA	112.00	420.00	47,040
1061	Lighting type RJ downlight	EA	15.00	810.00	12,150
1062	Lighting type RSA step light	EA	6.00	310.00	1,860
1063	Lighting typeRLA linear recessed	EA	24.00	1,080.00	25,920
1064	Lighting type RLB indirect wall wash	EA	13.00	1,620.00	21,060
1066	Lighting type RLD linear downlight	EA	53.00	910.00	48,230
1067	Lighting type RLE linear downlight	EA	3.00	910.00	2,730
1068	Lighting type RLF in ground linear	EA	10.00	1,020.00	10,200
1070	Lighting type RLH 3' semi recessed wall wash	EA	6.00	1,410.00	8,460
1071	Lighting type SA 8" dia ingrade	EA	96.00	680.00	65,280

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1072	Lighting type SWA up/down exterior	EA	12.00	850.00	10,200
1073	Lighting type T1 track	EA	10.00	750.00	7,500
1074	Lighting type TA track spot	EA	25.00	450.00	11,250
1456	Lighting Science labs	EA	8.00	12,575.00	100,600
1457	Lighting Rest Rooms	EA	15.00	6,735.00	101,025
1458	Lighting toilets	EA	46.00	1,075.00	49,450
1459	Lighting Stairs	EA	8.00	2,201.25	17,610
1460	Lighting Corridors	LF	4,658.00	265.25	1,235,535
1461	Lighting Collab areas	EA	3.00	11,675.00	35,025
1462	Lighting Studio areas	EA	1.00	14,900.00	14,900
1463	Lighting classrooms	EA	106.00	7,670.00	813,020
1464	Lighting Science labs	EA	14.00	7,900.00	110,600
1465	Lighting computer labs	EA	54.00	7,900.00	426,600
1526	Lighting Exits	EA	151.00	420.00	63,420
1527	Lighting type F1	EA	65.00	285.00	18,525
1732	Lighting conduit & wire	EA	1,746.00	185.00	323,010
1743	Lighting control	SF	406,262.00	2.30	934,402
1786	Theater lighting control interface	EA	1.00	5,500.00	5,500
1787	Stage lighting control interface	EA	1.00	4,500.00	4,500
1788	Lighting control classroom 4 zone control	EA	106.00	4,575.00	484,950
D5040 - Lighting				16.49/SF	6,273,932
D5080	Miscellaneous Electrical Systems				
647	Lightning protection	SF	406,262.00	1.25	507,828
763	P.V System 249 kw (rough in conduit for future)	EA	1.00	75,800.00	75,800
767	Seismic restraints electrical	SF	406,262.00	0.35	142,192
768	Interior electronic scoreboard & shot clock	EA	1.00	25,000.00	25,000
777	Owner independent testing agency	EA	1.00		Excl.
1737	Clocks backbone wiring	EA	1.00	250,400.00	250,400
1738	Electrical permits	SF	406,262.00	0.35	142,192
1739	Electrical testing & commissioning	SF	406,262.00	0.40	162,504
1740	Electrical firestopping	SF	406,262.00	0.25	101,565
1742	Clocks conduit & wire	EA	199.00	325.00	64,675

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1785	Electrical access panel	EA	1.00	9,580.00	9,580
2010	Reduce lighting control zones from four zones per classroom to three zones per classroom, reduce to two zones (VE-E01)	LS	1.00	-126,600.00	-126,600
2011	For site lighting, control lighting with integral photocells at each light pole, in lieu of using the lighting control system on top of photocells to turn on/off fixtures. (VE-E02)	LS	1.00	-20,000.00	-20,000
2012	Provide aluminum feeders for those within the main building 200Amps and larger (VE-E03)	LS	1.00	-732,186.00	-732,186
2013	Remove duct banks from main fire alarm control panel to all satellite/out buildings (VE-E04)	LS	1.00	-4,500.00	-4,500
2014	Change the site lighting fixtures to Beacon Viper (VE-E05)	LS	1.00	-27,000.00	-27,000
2015	Shorten Duct Bank Primary, Telcom and Generator to more in the range of 500 LF (VE-E06)	LS	1.00	-200,000.00	-200,000
2016	Move All Transformer closer to their prospective Switchboards in the range of 50 LF per run (VE-E07)	LS	1.00	-300,000.00	-300,000
2017	Utilize Aluminum Feeders 100 amps (VE-E08)	LS	1.00	-150,000.00	-150,000
2018	Utilize Aluminum MC Feeders for feeds 100 amps to 225 amps (VE-E09)	LS	1.00	-20,000.00	-20,000
2019	Eliminate Vehicle Charging Stations in Auto Shop quantity of 4 (VE-E10)	LS	1.00	-22,500.00	-22,500
2020	Reduce Cord Reel Quantity in shops reduce by 10 overall (VE-E11)	LS	1.00	-16,000.00	-16,000
2021	Utilize Lightning Preventor System in lieu of Lightning Protection (VE-E14)	LS	1.00	-100,000.00	-100,000
2022	Move Class Speech Reinforcement to tech Budget Wireless Ceiling Panel (VE-E15)	LS	1.00	-217,000.00	-217,000
2023	Remove Draw-out Breakers from Main Switchboard (VE-E16)	LS	1.00	-20,000.00	-20,000
2024	Single ended Switchboard would remove set of Secondaries and Secondary Duct Bank reduces redundancy (VE-E17)	LS	1.00	-175,000.00	-175,000
2025	Eliminate panels and transformers for Parking EV charging Stations conduit, wire ,panels transformer and charging station (VE-E18)	LS	1.00	-70,000.00	-70,000

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
2026	Re-evaluate conduit and Service going from Maintenance Building to Main Building (reduce spares and shorter conduits) (VE-E19)	LS	1.00	-40,000.00	-40,000
2027	Eliminate Theatrical Dimming and rough in (eliminates all Electrical Scope associated with Theater) (VE-E20)	LS	1.00	-200,000.00	-200,000
2028	Re-evaluate Conduit and Site Lighting for entrance near School Sign and power and communication for sign potentially wireless (VE-E21)	LS	1.00	-20,000.00	-20,000
2029	Reduce Security Camera counts (VE-E24)	LS	1.00	-40,000.00	-40,000
2030	Delete Sub Metering (VE-E25)	LS	1.00	-515,000.00	-515,000
2031	Target Reduction in Lighting - \$1/SF (VE-E26)	LS	1.00	-380,000.00	-380,000
D5080 - Miscellaneous Electrical Systems				-5.03/SF	-1,914,050
D50 - ELECTRICAL				32.39/SF	12,325,283
D60	COMMUNICATIONS				
D6010	Data Communications				
1674	Data outlet	EA	489.00	710.00	347,190
1675	Telephone outlet	EA	156.00	680.00	106,080
1676	WAP wireless access point	EA	180.00	850.00	153,000
1736	Data backbone cabling	EA	1.00	1,200,000.00	1,200,000
D6010 - Data Communications				4.75/SF	1,806,270
D6020	Voice Communications				
640	TV & Video (rough in & equipment) - move to FF&E	SF	406,262.00		Excl.
D6020 - Voice Communications					Excl.
D6030	Audio-Video Communication				
643	Inst. AV System (rough in & equipment) - move to FF&E	SF	406,262.00		Excl.
1691	Speech reinforcement system SFR rough in	EA	93.00	575.00	53,475
1695	Video presentation screen outlet (flat screen) rough in	EA	94.00	950.00	89,300
1714	Loud speaker (equipment, rough in and cabling	EA	40.00	12,750.00	510,000
D6030 - Audio-Video Communication				1.72/SF	652,775
D6060	Distributed Communications and Monitoring				
1693	Volume control rough in	EA	67.00	585.00	39,195
1694	PA horn speaker rough in	EA	63.00	620.00	39,060

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1741	Sound conduit & wire	EA	696.00	280.00	194,880
	D6060 - Distributed Communications and Monitoring			0.72/SF	273,135
	D60 - COMMUNICATIONS			7.18/SF	2,732,180
D70	ELECTRONIC SAFETY AND SECURITY				
D7010	Access Controls and Intrusion Detection				
1686	Door contacts	EA	51.00	850.00	43,350
1687	Key pad	EA	2.00	3,650.00	7,300
1688	Card reader	EA	54.00	3,250.00	175,500
1689	Motion sensor	EA	7.00	1,850.00	12,950
1733	Security conduit & wire	EA	273.00	275.00	75,075
1735	Security backbone cabling	EA	1.00	650,500.00	650,500
	D7010 - Access Controls and Intrusion Detection			2.53/SF	964,675
D7030	Electronic Surveillance				
760	Vape detection system rough in	EA	1.00	36,960.00	36,960
1685	CCTV cameras rough in	EA	160.00	980.00	156,800
1778	Security conduit & wire	EA	160.00	460.00	73,600
1779	Security backbone cabling	EA	1.00	145,800.00	145,800
	D7030 - Electronic Surveillance			1.09/SF	413,160
D7050	Detection and Alarm				
1629	Fire alarm control panel	EA	1.00	25,800.00	25,800
1630	Fire alarm remote annunciator	EA	17.00	3,585.00	60,945
1631	Fire alarm pull station	EA	40.00	680.00	27,200
1632	Fire alarm smoke detector	EA	228.00	620.00	141,360
1636	Fire alarm audio/visual alarm	EA	487.00	940.00	457,780
1637	Fire alarm audio only alarm	EA	45.00	820.00	36,900
1640	Fire alarm flow and tamper switch	EA	126.00	550.00	69,300
1643	Fire alarm testing & commissioning	EA	972.00	115.00	111,780
1734	Fire alarm conduit & wire	EA	943.00	275.00	259,325
1780	Fire alarm communication system interface	EA	1.00	10,200.00	10,200
1782	Kitchen fire suppression connection (sbo)	EA	1.00	8,500.00	8,500
	D7050 - Detection and Alarm			3.18/SF	1,209,090

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
D7090	Electronic Safety and Security Supplementary Components				
761	Visitor management system rough in	EA	1.00	5,000.00	5,000
810	Gun/gunshot detection system	EA	1.00	25,000.00	25,000
	D7090 - Electronic Safety and Security Supplementary Components			0.08/SF	30,000
	D70 - ELECTRONIC SAFETY AND SECURITY			6.88/SF	2,616,925
E10	EQUIPMENT				
E1040	Institutional Equipment				
340	Theatrical seating (Auditorium)	EA	750.00		Excl.
341	Motorized projection screen - 20'x14' (Auditorium)	EA	1.00		Incl.
343	Motorized projection screen (Gymnasium)	EA	1.00		Incl.
342	Interactive wall mounted display (Education room)	EA	62.00		Incl.
344	Large format digital information display (Cafeteria Commons)	EA	4.00		Incl.
1973	Operable/telescoping theater seating system - by Owner (FF&E)	LS	1.00		Excl.
	E1040 - Institutional Equipment				0
E1070	Entertainment and Recreational Equipment				
356	Roof deck lounge chair - none indicated	EA	9.00		Excl.
363	Rooftop playground equipment; 2-5 spinner	EA	1.00		Excl.
365	Rooftop playground equipment; 2-5 main play structure	EA	1.00		Excl.
1705	Rooftop playground equipment; Dome climber	EA	1.00		Excl.
364	Rooftop playground equipment; PIP rubber mound with composite wood arch bridge - none indicated	EA	1.00		Excl.
366	Rooftop playground equipment; PIP rubber mound with embankment slide - none indicated	EA	1.00		Excl.
1974	Rooftop playground equipment; Loose playground parts	LS	1.00	33,000.00	33,000
	E1070 - Entertainment and Recreational Equipment			0.09/SF	33,000
E1090	Other Equipment				
345	Food service equipment (Main Kitchen & Culinary Kitchen)	LS	1.00	2,150,900.00	2,150,900

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS

BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1799	Loading dock equipment	EA	1.00	2,500.00	2,500
1800	Extended scissor alignment lift rack (12,000 lbs.)	EA	1.00	17,250.00	17,250
890	Move Automotive Refinishing, Automotive Technology Lifts, HVAC & Plumbing Equipment, Dental, Carpentry, and Cosmetology to FF&E	LS	1.00		Excl.
1809	Workshop equipment (with FF&E)	LS	1.00		Excl.
1772	Casework: Dressing counter	LF	38.00	300.00	11,400
1762	Casework: Solid surface countertop	LF	619.00	200.00	123,800
1769	Casework: Stainless steel countertop	LF	1,338.00	450.00	602,100
1763	Casework: Full height cabinet	LF	466.00	750.00	349,500
1765	Casework: Base cabinet with solid surface countertop	LF	1,486.00	450.00	668,700
1766	Casework: Upper cabinet	LF	913.00	250.00	228,250
1770	Casework: Shelf	LF	55.00	150.00	8,250
1771	Casework: Work bench	LF	66.00	150.00	9,900
1808	Residential equipment	Set	4.00	5,000.00	20,000
1801	Theater rigging	LS	1.00	200,000.00	200,000
1802	Gymnasium wall padding	SF	946.00	50.00	47,300
1803	Gymnasium batting cage	EA	1.00	5,500.00	5,500
1811	Gymnasium flexible stainless steel safety netting	SF	3,016.00	30.00	90,480
1804	Gymnasium dividers	SF	2,582.00	23.00	59,386
1805	Gymnasium basketball backdrop	EA	6.00	5,000.00	30,000
1806	Electronic scoreboard, Fair-Play BB-6620	EA	1.00	15,000.00	15,000
1807	Telescoping bleachers	LS	1.00	230,000.00	230,000
E1090 - Other Equipment				12.80/SF	4,870,216
E10 - EQUIPMENT				12.88/SF	4,903,216
E20	FURNISHINGS				
E2010	Fixed Furnishings				
322	Custom display cases	Item			50,000
729	Custom bench with solid surface bench top	LF	298.00	500.00	149,000
730	Custom reception desk	LF	28.00	1,000.00	28,000
731	Custom quartz countertop	LF	147.00	400.00	58,800
1700	Base cabinet with solid surface counter (School Store)	LF	27.00	800.00	21,600

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A1 - DETAILS BD BASE DESIGN

A Building

A1 New School Building (continued)

GFAR: 380,570.00 SF Cost/SF: 392.43
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1701	Base cabinet with solid surface counter (Bank)	LF	30.00	800.00	24,000
1699	HAVC workstation countertop	EA	48.00	500.00	24,000
1703	Workshop countertop	LF	29.00	100.00	2,900
1698	Locker bench	LF	132.90	125.00	16,612
1702	Full height cabinet	EA	1.00	1,000.00	1,000
732	Custom study desk - none indicated	LF	15.00		Excl.
1704	Concession counter	LF	4.80	275.00	1,320
323	Window roller shades, manual operated (Classrooms, Science Labs, Art rooms)	SF	31,837.00		Excl.
803	Window roller shades, manual operated	EA	174.00		Incl.
324	Window roller shades, electrically operated (Media Center)	SF	2,581.00	20.00	51,620
325	Vertical blinds, manual operated (Administration)	SF	590.00	12.00	7,080
326	Tension shade system, electrically operated (Dome skylight)	SF	750.00	35.00	26,250
E2010 - Fixed Furnishings				1.21/SF	462,182
E20 - FURNISHINGS				1.21/SF	462,182
NEW SCHOOL BUILDING				392.43/SF	149,348,302

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A2A - SUMMARY

BD BASE DESIGN

A Building

A2A Locker Building Elevator Works

GFAR: 6,060.00 SF Cost/SF: 140.08
Rates Current At August 2022

Ref	Description	GFAR USD/SF	Total Cost USD
A10	Foundations		
A1010	Standard Foundations	1.88	11,411
	A10 - Foundations	1.88	11,411
A20	Basement ConstructionSubgrade Enclosures		
A2010	Walls for Subgrade Enclosures	4.82	29,184
	A20 - Basement ConstructionSubgrade Enclosures	4.82	29,184
A90	Substructure Related Activities		
A9010	Substructure Excavation	0.18	1,101
	A90 - Substructure Related Activities	0.18	1,101
B10	Superstructure		
B1020	Roof Construction	1.42	8,611
	B10 - Superstructure	1.42	8,611
B20	Exterior Vertical Enclosures		
B2010	Exterior Walls	15.29	92,678
	B20 - Exterior Vertical Enclosures	15.29	92,678
B30	Exterior Horizontal Enclosures		
B3010	Roofing	0.97	5,880
	B30 - Exterior Horizontal Enclosures	0.97	5,880
D10	Conveying		
D1010	Vertical Conveying Systems		Excl.
	D10 - Conveying		Excl.
F10	Special Construction		
F1050	Special Facility Components	115.51	700,000
	F10 - Special Construction	115.51	700,000
LOCKER BUILDING ELEVATOR WORKS		140.08	848,865

DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3



A2A Locker Building Elevator Works

GFAR: 6,060.00 SF Cost/SF: 140.08
Rates Current At August 2022

Design Development Cost Estimate - Revision 3
BOS20013-304

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A2A - DETAILS

BD BASE DESIGN

A Building

A2A Locker Building Elevator Works

GFAR: 6,060.00 SF Cost/SF: 140.08
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
A10	FOUNDATIONS				
A1010	Standard Foundations				
588	Concrete to mat footings - 3" thick, 4500 PSI	CY	16.61	314.99	5,232
589	Form mat footings	SF	147.07	20.00	2,941
590	Bar reinforcement to mat footings	Lb	1,962.29	1.65	3,238
	A1010 - Standard Foundations			1.88/SF	11,411
	A10 - FOUNDATIONS			1.88/SF	11,411
A20	BASEMENT CONSTRUCTIONSUBGRADE ENCLOSURES				
A2010	Walls for Subgrade Enclosures				
615	Concrete to elevator pit walls, 4500 PSI	CY	7.69	324.97	2,499
616	Form elevator pit walls	SF	410.26	25.00	10,257
613	Bar reinforcement to elevator pit walls	Lb	1,585.70	1.65	2,616
614	Waterproofing to basement retaining walls and footings and elevator pit walls and footings	SF	708.31	15.00	10,625
618	Rigid insulation - 2" thick	SF	708.30	4.50	3,187
	A2010 - Walls for Subgrade Enclosures			4.82/SF	29,184
	A20 - BASEMENT CONSTRUCTIONSUBGRADE ENCLOSURES			4.82/SF	29,184
A90	SUBSTRUCTURE RELATED ACTIVITIES				
A9010	Substructure Excavation				
591	Excavation for foundation footings including spoils removal	CY	20.72	30.98	642
593	Prepare and compact foundation sub-base	SF	149.15	1.50	224
594	Imported sand gravel fill below foundations - 12" thick	CY	5.53	50.09	277
620	Imported foundation backfill	CY	-1.39	30.22	-42
	A9010 - Substructure Excavation			0.18/SF	1,101
	A90 - SUBSTRUCTURE RELATED ACTIVITIES			0.18/SF	1,101
B10	SUPERSTRUCTURE				
B1020	Roof Construction				
546	Galvanized corrugated roof deck - 3" deep, type N	SF	168.00	7.00	1,176
1008	Structural steel framing - allow 15 PSF	T	1.2601	5,400.37	6,805
551	Allowance for miscellaneous connections and framings	T	0.1261		Incl.

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A2A - DETAILS

BD BASE DESIGN

A Building

A2A Locker Building Elevator Works (continued)

GFAR: 6,060.00 SF Cost/SF: 140.08
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
719	Allowance for spray applied fireproofing (members only)	SF	168.01	3.75	630
	B1020 - Roof Construction			1.42/SF	8,611
	B10 - SUPERSTRUCTURE			1.42/SF	8,611
B20	EXTERIOR VERTICAL ENCLOSURES				
B2010	Exterior Walls				
29	4" Thick CMU Veneer	SF	1,018.44	40.00	40,738
72	8" Thick CMU back-up	SF	1,018.44	35.00	35,645
1649	2" Thick rigid insulation	SF	1,018.44	5.00	5,092
95	Fluid applied air-vapor barrier	SF	1,018.43	9.00	9,166
190	Allowance for miscellaneous sealing and caulking	SF	1,018.42	2.00	2,037
	B2010 - Exterior Walls			15.29/SF	92,678
	B20 - EXTERIOR VERTICAL ENCLOSURES			15.29/SF	92,678
B30	EXTERIOR HORIZONTAL ENCLOSURES				
B3010	Roofing				
199	Locker Building roof assembly, assumes PVC membrane roofing	SF	168.00	35.00	5,880
	B3010 - Roofing			0.97/SF	5,880
	B30 - EXTERIOR HORIZONTAL ENCLOSURES			0.97/SF	5,880
D10	CONVEYING				
D1010	Vertical Conveying Systems				
752	Passenger elevator, 2 stops	EA	1.00		Excl.
	D1010 - Vertical Conveying Systems				Excl.
	D10 - CONVEYING				Excl.
F10	SPECIAL CONSTRUCTION				
F1050	Special Facility Components				
1975	Allowance for miscellaneous renovation to existing bunker, etc.	LS	1.00	700,000.00	700,000
	F1050 - Special Facility Components			115.51/SF	700,000
	F10 - SPECIAL CONSTRUCTION			115.51/SF	700,000
LOCKER BUILDING ELEVATOR WORKS				140.08/SF	848,865

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A3 - SUMMARY

BD BASE DESIGN

A Building

A3 Maintenance Building

GFAR: 2,040.00 SF Cost/SF: 257.64
Rates Current At August 2022

Ref	Description	GFAR USD/SF	Total Cost USD
A10	Foundations		
A1010	Standard Foundations	12.58	25,655
	A10 - Foundations	12.58	25,655
A20	Basement ConstructionSubgrade Enclosures		
A2010	Walls for Subgrade Enclosures	31.79	64,851
	A20 - Basement ConstructionSubgrade Enclosures	31.79	64,851
A40	Slabs-on-Grade		
A4010	Standard Slabs-on-Grade	16.13	32,902
	A40 - Slabs-on-Grade	16.13	32,902
A60	Water and Gas Mitigation		
A6010	Building Subdrainage	7.98	16,281
	A60 - Water and Gas Mitigation	7.98	16,281
A90	Substructure Related Activities		
A9010	Substructure Excavation	6.84	13,955
	A90 - Substructure Related Activities	6.84	13,955
B20	Exterior Vertical Enclosures		
B2010	Exterior Walls	26.03	53,105
B2050	Exterior Doors and Grilles	22.65	46,200
	B20 - Exterior Vertical Enclosures	48.68	99,305
B30	Exterior Horizontal Enclosures		
B3010	Roofing		Incl.
	B30 - Exterior Horizontal Enclosures		Incl.
C10	Interior Construction		
C1010	Interior Partitions	6.75	13,761
C1030	Interior Doors	0.77	1,570
C1090	Interior Specialties	7.08	14,440
	C10 - Interior Construction	14.59	29,771
C20	Interior Finishes		
C2010	Wall Finishes	3.19	6,509
C2030	Flooring	2.44	4,987
C2050	Ceiling Finishes	2.36	4,823
	C20 - Interior Finishes	8.00	16,319

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A3 - SUMMARY

BD BASE DESIGN

A Building

A3 Maintenance Building (continued)

GFAR: 2,040.00 SF Cost/SF: 257.64
Rates Current At August 2022

Ref	Description	GFAR USD/SF	Total Cost USD
D20	Plumbing		
D2010	Domestic Water Distribution		Excl.
D2020	Sanitary Drainage		Excl.
D2060	Process Support Plumbing Systems		Excl.
	D20 - Plumbing		Excl.
D30	HVAC		
D3050	Facility HVAC Distribution Systems	11.14	22,735
D3060	Controls & Instrumentations	4.15	8,472
D3070	Special Purpose HVAC Systems	2.45	4,992
	D30 - HVAC	17.74	36,199
D50	Electrical		
D5020	Electrical Service and Distribution	2.15	4,382
D5030	General Purpose Electrical Power	0.66	1,350
D5040	Lighting	3.76	7,672
D5080	Miscellaneous Electrical Systems	1.14	2,317
	D50 - Electrical	7.71	15,721
D60	Communications		
D6010	Data Communications	1.10	2,240
D6060	Distributed Communications and Monitoring	1.00	2,045
	D60 - Communications	2.10	4,285
D70	Electronic Safety and Security		
D7010	Access Controls and Intrusion Detection	5.86	11,950
D7050	Detection and Alarm	2.57	5,235
	D70 - Electronic Safety and Security	8.42	17,185
F10	Special Construction		
F1020	Special Structures	75.07	153,150
	F10 - Special Construction	75.07	153,150
MAINTENANCE BUILDING		257.64	525,579

DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3



A3 Maintenance Building (continued)

GFAR: 2,040.00 SF Cost/SF: 257.64
Rates Current At August 2022

Design Development Cost Estimate - Revision 3
BOS20013-304

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A3 - DETAILS

BD BASE DESIGN

A Building

A3 Maintenance Building

GFAR: 2,040.00 SF Cost/SF: 257.64
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
A10	FOUNDATIONS				
A1010	Standard Foundations				
996	Concrete to isolated spread footings, 4500 PSI	CY	14.82	314.98	4,668
529	Concrete to perimeter strip footings - 1' thick, 4500 PSI	CY	13.50	315.04	4,253
521	Form isolated spread footings	SF	320.00	20.00	6,400
530	Form strip footings	SF	364.15	20.00	7,283
522	Bar reinforcement to isolated footing	Lb	500.65	1.65	826
587	Bar reinforcement to strip footings, allow 100 PCY	Lb	1,348.65	1.65	2,225
	A1010 - Standard Foundations			12.58/SF	25,655
	A10 - FOUNDATIONS			12.58/SF	25,655
A20	BASEMENT CONSTRUCTIONSUBGRADE ENCLOSURES				
A2010	Walls for Subgrade Enclosures				
598	Concrete to perimeter frost walls, 4500 PSI	CY	26.99	324.97	8,771
605	Form perimeter frost walls	SF	1,456.64	25.00	36,416
608	Bar reinforcement to perimeter frost walls, allow 10 PSF	Lb	7,283.23	1.65	12,017
617	Dampproofing to frost wall	SF	728.32	6.00	4,370
618	Rigid insulation - 2" thick	SF	728.33	4.50	3,277
	A2010 - Walls for Subgrade Enclosures			31.79/SF	64,851
	A20 - BASEMENT CONSTRUCTIONSUBGRADE ENCLOSURES			31.79/SF	64,851
A40	SLABS-ON-GRADE				
A4010	Standard Slabs-on-Grade				
501	Concrete to slab on grade - 6" thick, 4000 PSI	CY	33.31	300.00	9,993
502	Form slab on grade	SF	88.73	18.00	1,597
503	Fiber mesh reinforcement	SF	1,798.05	1.10	1,978
698	Allowance for bar reinforcement	Lb	899.03	1.65	1,483
504	Float finish to slab on grade	SF	1,798.05	1.50	2,697
505	Control joints	SF	1,798.05	0.75	1,349
506	Air and vapor barrier	SF	1,798.05	0.85	1,528
508	Excavation for slab on grade	CY	111.00		Incl.
509	Remove and dispose of excavated material	CY	111.00		Incl.
510	Prepare and compact sub-base	SF	1,798.05	1.50	2,697

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A3 - DETAILS

BD BASE DESIGN

A Building

A3 Maintenance Building (continued)

GFAR: 2,040.00 SF Cost/SF: 257.64
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
513	Imported sand gravel fill - 12" thick	CY	66.61	49.99	3,330
703	Winter conditions	LS	1.00		Excl.
707	Mechanical pads	Item			3,750
710	Engineering, layout, safety, cleaning, etc.	Item			2,500
	A4010 - Standard Slabs-on-Grade			16.13/SF	32,902
	A40 - SLABS-ON-GRADE			16.13/SF	32,902
A60	WATER AND GAS MITIGATION				
A6010	Building Subdrainage				
619	Perimeter drain	LF	190.76	50.00	9,538
686	Under-slab drainage system	SF	1,798.05	3.75	6,743
	A6010 - Building Subdrainage			7.98/SF	16,281
	A60 - WATER AND GAS MITIGATION			7.98/SF	16,281
A90	SUBSTRUCTURE RELATED ACTIVITIES				
A9010	Substructure Excavation				
591	Excavation for foundation footings including spoils removal	CY	221.97	31.00	6,881
593	Prepare and compact foundation sub-base	SF	564.14	1.50	846
594	Imported sand gravel fill below foundations - 12" thick	CY	20.89	49.98	1,044
620	Imported foundation backfill	CY	172.80	30.00	5,184
	A9010 - Substructure Excavation			6.84/SF	13,955
	A90 - SUBSTRUCTURE RELATED ACTIVITIES			6.84/SF	13,955
B20	EXTERIOR VERTICAL ENCLOSURES				
B2010	Exterior Walls				
29	4" Thick CMU Veneer	SF	571.02	40.00	22,841
72	8" Thick CMU back-up	SF	571.02	35.00	19,986
89	3" Thick rigid insulation	SF	571.00	7.00	3,997
95	Fluid applied air-vapor barrier	SF	571.01	9.00	5,139
190	Allowance for miscellaneous sealing and caulking	SF	571.01	2.00	1,142
	B2010 - Exterior Walls			26.03/SF	53,105
B2050	Exterior Doors and Grilles				
238	12'-0" x 12'-0" Motor operated overhead door with insulating glass	EA	3.00	14,500.00	43,500

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A3 - DETAILS

BD BASE DESIGN

A Building

A3 Maintenance Building (continued)

GFAR: 2,040.00 SF Cost/SF: 257.64
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
134	3'-0" x 7'-0" Single leaf hollow metal door, including frame, finish, and hardware	EA	2.00	1,350.00	2,700
	B2050 - Exterior Doors and Grilles			22.65/SF	46,200
	B20 - EXTERIOR VERTICAL ENCLOSURES			48.68/SF	99,305
B30	EXTERIOR HORIZONTAL ENCLOSURES				
B3010	Roofing				
206	Maintenance roof assembly (included with PEMB)	SF	2,071.00		Incl.
	B3010 - Roofing				Incl.
	B30 - EXTERIOR HORIZONTAL ENCLOSURES				Incl.
C10	INTERIOR CONSTRUCTION				
C1010	Interior Partitions				
267	CMU partition, 8" thick	SF	325.01	28.00	9,100
410	Gypsum board furring - 3-5/8" metal stud with 1 layer 5/8" GWB (Type F4.0)	SF	134.00	11.00	1,474
488	Allowance for miscellaneous sealing and caulking	SF	1,992.00	0.50	996
489	Allowance for miscellaneous fire stopping	SF	1,992.00	0.25	498
806	Allowance for miscellaneous clean-up, additional labor, safety, etc. (Masonry Trade)	SF	1,992.00	0.50	996
808	Allowance for miscellaneous clean-up, additional labor, safety, etc. (Drywall Trade)	SF	1,992.00	0.35	697
	C1010 - Interior Partitions			6.75/SF	13,761
C1030	Interior Doors				
102	3'-0"x7'-0" Single leaf hollow metal doors, including frame, finish and hardware	EA	1.00	1,570.00	1,570
	C1030 - Interior Doors			0.77/SF	1,570
C1090	Interior Specialties				
280	Restroom accessories - Tissue paper dispenser	EA	1.00	125.00	125
281	Restroom accessories - Grab bar	EA	2.00	180.00	360
282	Restroom accessories - Napkin disposal	EA	1.00	500.00	500
283	Restroom accessories - Robe hook	EA	1.00	100.00	100
284	Restroom accessories - Soap dispenser	EA	1.00	150.00	150
291	Restroom accessories - Framed mirror	EA	1.00	800.00	800
292	Restroom accessories - Towel dispenser/waste receptacle	EA	1.00	850.00	850

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A3 - DETAILS

BD BASE DESIGN

A Building

A3 Maintenance Building (continued)

GFAR: 2,040.00 SF Cost/SF: 257.64
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
293	Allowance for miscellaneous metals	SF	1,992.00	1.00	1,992
294	Allowance for rough carpentry	SF	1,992.00	0.75	1,494
295	Allowance for wood blocking	SF	1,992.00	1.25	2,490
296	Allowance for fire extinguisher and cabinets	EA	0.81	850.62	689
297	Allowance for interior signage	SF	1,992.00	0.85	1,693
298	Allowance for exterior signage	Item			2,500
807	Allowance for miscellaneous clean-up, additional labor, safety, etc. (Carpentry Trade)	SF	1,992.00	0.35	697
	C1090 - Interior Specialties			7.08/SF	14,440
	C10 - INTERIOR CONSTRUCTION			14.59/SF	29,771
C20	INTERIOR FINISHES				
C2010	Wall Finishes				
141	Ceramic tile	SF	167.77	18.00	3,020
170	Prepare and apply epoxy paint	SF	179.33	3.50	628
171	Prepare and apply paint to CMU	SF	1,907.30	1.50	2,861
	C2010 - Wall Finishes			3.19/SF	6,509
C2030	Flooring				
5	Sealed concrete	SF	1,681.64	1.50	2,522
6	Epoxy flooring and base	SF	85.48	15.00	1,282
10	Resilient base	LF	97.71	5.00	489
11	Ceramic tile base	LF	34.71	19.99	694
	C2030 - Flooring			2.44/SF	4,987
C2050	Ceiling Finishes				
41	Gypsum board ceiling, moisture resistant	SF	85.47	25.00	2,137
39	Paint to gypsum board ceiling	SF	85.47	1.50	128
40	Paint to exposed ceiling	SF	1,705.20	1.50	2,558
	C2050 - Ceiling Finishes			2.36/SF	4,823
	C20 - INTERIOR FINISHES			8.00/SF	16,319
D20	PLUMBING				
D2010	Domestic Water Distribution				
421	Plumbing Fixtures	Note			
447	Water Distribution and Components	Note			

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A3 - DETAILS

BD BASE DESIGN

A Building

A3 Maintenance Building (continued)

GFAR: 2,040.00 SF Cost/SF: 257.64
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1316	Electric water heater - undercounter point 4.5 kw - maintenance building	EA	1.00		Excl.
1311	2", Reduced pressure backflow preventer - allow - maintenance building	EA	1.00		Excl.
1308	Domestic water piping, copper K, 2" - bg	LF	18.00		Excl.
	D2010 - Domestic Water Distribution				Excl.
D2020	Sanitary Drainage				
1322	Grease/oil separator - Maintenance building	EA	1.00		Excl.
1304	1-1/2" to 2, Vent piping, bg	LF	10.00		Excl.
	D2020 - Sanitary Drainage				Excl.
D2060	Process Support Plumbing Systems				
1768	Allowance for maintenance building gas system	SF	1,992.00		Excl.
	D2060 - Process Support Plumbing Systems				Excl.
	D20 - PLUMBING				Excl.
D30	HVAC				
D3050	Facility HVAC Distribution Systems				
1216	Galvanized duct work c/w fittings, supports, etc.	Lb	675.00	15.00	10,125
1217	Thermal insulation	SF	675.01	7.00	4,725
1236	Louver	SF	12.02	74.96	901
1399	Plenum, 24"x24"	EA	2.00	1,500.00	3,000
1567	Allowance for miscellaneous/missing items	SF	996.00	4.00	3,984
788	Allowance for ERV units and supplementary equipment to support areas	SF	1,992.00		Excl.
403	Allowance for instrumentation and controls	SF	1,992.00		Excl.
	D3050 - Facility HVAC Distribution Systems			11.14/SF	22,735
D3060	Controls & Instrumentations				
1592	CO/NO2 monitoring system c/w sensors	EA	1.00	1,500.00	1,500
1708	BAS control system c/w computer station, graphics, wiring, testing etc.	SF	1,992.00	3.50	6,972
	D3060 - Controls & Instrumentations			4.15/SF	8,472
D3070	Special Purpose HVAC Systems				
783	Testing, balancing and commissioning	SF	1,992.00	1.00	1,992

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A3 - DETAILS

BD BASE DESIGN

A Building

A3 Maintenance Building (continued)

GFAR: 2,040.00 SF Cost/SF: 257.64
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1560	General requirements: supervision, shop drawings, asbuilt, tags, markers, tools, rentals, BIM, cleaning, storage, material handling, seismic restraints, permits, fees etc.	Item			3,000
	D3070 - Special Purpose HVAC Systems			2.45/SF	4,992
	D30 - HVAC			17.74/SF	36,199
D50	ELECTRICAL				
D5020	Electrical Service and Distribution				
217	Distribution maintenance building	SF	1,992.00	2.20	4,382
	D5020 - Electrical Service and Distribution			2.15/SF	4,382
D5030	General Purpose Electrical Power				
1531	Rec power	EA	6.00	225.00	1,350
	D5030 - General Purpose Electrical Power			0.66/SF	1,350
D5040	Lighting				
1526	Lighting Exits	EA	2.00	420.00	840
1527	Lighting type F1	EA	4.00	285.00	1,140
1732	Lighting conduit & wire	EA	6.00	185.00	1,110
1743	Lighting control	SF	1,992.00	2.30	4,582
	D5040 - Lighting			3.76/SF	7,672
D5080	Miscellaneous Electrical Systems				
1738	Electrical permits	SF	1,992.00	0.35	697
1739	Electrical testing & commissioning	SF	1,992.00	0.40	797
1740	Electrical firestopping	SF	1,992.00	0.25	498
1742	Clocks conduit & wire	EA	1.00	325.00	325
	D5080 - Miscellaneous Electrical Systems			1.14/SF	2,317
	D50 - ELECTRICAL			7.71/SF	15,721
D60	COMMUNICATIONS				
D6010	Data Communications				
1674	Data outlet	EA	1.00	710.00	710
1675	Telephone outlet	EA	1.00	680.00	680
1676	WAP wireless access point	EA	1.00	850.00	850
	D6010 - Data Communications			1.10/SF	2,240

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A3 - DETAILS

BD BASE DESIGN

A Building

A3 Maintenance Building (continued)

GFAR: 2,040.00 SF Cost/SF: 257.64
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
D6060	Distributed Communications and Monitoring				
1693	Volume control rough in	EA	1.00	585.00	585
1694	PA horn speaker rough in	EA	1.00	620.00	620
1741	Sound conduit & wire	EA	3.00	280.00	840
	D6060 - Distributed Communications and Monitoring			1.00/SF	2,045
	D60 - COMMUNICATIONS			2.10/SF	4,285
D70	ELECTRONIC SAFETY AND SECURITY				
D7010	Access Controls and Intrusion Detection				
1686	Door contacts	EA	4.00	850.00	3,400
1687	Key pad	EA	1.00	3,650.00	3,650
1688	Card reader	EA	1.00	3,250.00	3,250
1733	Security conduit & wire	EA	6.00	275.00	1,650
	D7010 - Access Controls and Intrusion Detection			5.86/SF	11,950
D7050	Detection and Alarm				
1631	Fire alarm pull station	EA	2.00	680.00	1,360
1632	Fire alarm smoke detector	EA	1.00	620.00	620
1636	Fire alarm audio/visual alarm	EA	2.00	940.00	1,880
1734	Fire alarm conduit & wire	EA	5.00	275.00	1,375
	D7050 - Detection and Alarm			2.57/SF	5,235
	D70 - ELECTRONIC SAFETY AND SECURITY			8.42/SF	17,185
F10	SPECIAL CONSTRUCTION				
F1020	Special Structures				
657	Pre-engineered building	SF	2,042.00	75.00	153,150
	F1020 - Special Structures			75.07/SF	153,150
	F10 - SPECIAL CONSTRUCTION			75.07/SF	153,150
MAINTENANCE BUILDING				257.64/SF	525,579

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A4A - SUMMARY

BD BASE DESIGN

A Building

A4A Concessions/Restrooms Foundation Works

GFAR: 1,730.00 SF Cost/SF: 58.64
Rates Current At August 2022

Ref	Description	GFAR USD/SF	Total Cost USD
A10	Foundations		
A1010	Standard Foundations	6.33	10,954
	A10 - Foundations	6.33	10,954
A20	Basement ConstructionSubgrade Enclosures		
A2010	Walls for Subgrade Enclosures	29.83	51,601
	A20 - Basement ConstructionSubgrade Enclosures	29.83	51,601
A40	Slabs-on-Grade		
A4010	Standard Slabs-on-Grade	8.85	15,313
A4090	Slab-on-Grade Supplementary Components	2.84	4,921
	A40 - Slabs-on-Grade	11.70	20,234
A60	Water and Gas Mitigation		
A6010	Building Subdrainage	6.81	11,782
	A60 - Water and Gas Mitigation	6.81	11,782
A90	Substructure Related Activities		
A9010	Substructure Excavation	3.98	6,877
	A90 - Substructure Related Activities	3.98	6,877
CONCESSIONS/RESTROOMS FOUNDATION WORKS		58.64	101,448

DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3



A4A Concessions/Restrooms Foundation Works

GFAR: 1,730.00 SF Cost/SF: 58.64
Rates Current At August 2022

Design Development Cost Estimate - Revision 3
BOS20013-304

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A4A - DETAILS

BD BASE DESIGN

A Building

A4A Concessions/Restrooms Foundation Works

GFAR: 1,730.00 SF Cost/SF: 58.64
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
A10	FOUNDATIONS				
A1010	Standard Foundations				
529	Concrete to perimeter strip footings - 1' thick, 4500 PSI	CY	10.75	314.98	3,386
530	Form strip footings	SF	289.86	20.00	5,797
587	Bar reinforcement to strip footings, allow 100 PCY	Lb	1,073.49	1.65	1,771
	A1010 - Standard Foundations			6.33/SF	10,954
	A10 - FOUNDATIONS			6.33/SF	10,954
A20	BASEMENT CONSTRUCTIONSUBGRADE ENCLOSURES				
A2010	Walls for Subgrade Enclosures				
598	Concrete to perimeter frost walls, 4500 PSI	CY	21.47	325.01	6,978
605	Form perimeter frost walls	SF	1,159.03	25.00	28,976
608	Bar reinforcement to perimeter frost walls, allow 10 PSF	Lb	5,795.14	1.65	9,562
617	Dampproofing to frost wall	SF	579.52	6.00	3,477
618	Rigid insulation - 2" thick	SF	579.53	4.50	2,608
	A2010 - Walls for Subgrade Enclosures			29.83/SF	51,601
	A20 - BASEMENT CONSTRUCTIONSUBGRADE ENCLOSURES			29.83/SF	51,601
A40	SLABS-ON-GRADE				
A4010	Standard Slabs-on-Grade				
933	Concrete to slab on grade - 5" thick, 4000 PSI	CY	17.00	300.00	5,100
502	Form slab on grade	SF	58.44	18.00	1,052
503	Fiber mesh reinforcement	SF	1,093.56	1.10	1,203
698	Allowance for bar reinforcement	Lb	546.79	1.65	902
504	Float finish to slab on grade	SF	1,093.56	1.50	1,640
505	Control joints	SF	1,093.56	0.75	820
506	Air and vapor barrier	SF	1,093.56	0.85	930
508	Excavation for slab on grade	CY	64.13		Incl.
509	Remove and dispose of excavated material	CY	64.13		Incl.
510	Prepare and compact sub-base	SF	1,093.56	1.50	1,640
513	Imported sand gravel fill - 12" thick	CY	40.51	50.01	2,026
703	Winter conditions	LS	1.00		Excl.
	A4010 - Standard Slabs-on-Grade			8.85/SF	15,313

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

A4A - DETAILS

BD BASE DESIGN

A Building

A4A Concessions/Restrooms Foundation Works (continued)

GFAR: 1,730.00 SF Cost/SF: 58.64
Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
A4090	Slab-on-Grade Supplementary Components				
507	Rigid insulation - 2" thick	SF	1,093.56	4.50	4,921
	A4090 - Slab-on-Grade Supplementary Components			2.84/SF	4,921
	A40 - SLABS-ON-GRADE			11.70/SF	20,234
A60	WATER AND GAS MITIGATION				
A6010	Building Subdrainage				
619	Perimeter drain	LF	153.62	50.00	7,681
686	Under-slab drainage system	SF	1,093.56	3.75	4,101
	A6010 - Building Subdrainage			6.81/SF	11,782
	A60 - WATER AND GAS MITIGATION			6.81/SF	11,782
A90	SUBSTRUCTURE RELATED ACTIVITIES				
A9010	Substructure Excavation				
591	Excavation for foundation footings including spoils removal	CY	107.35	31.00	3,328
593	Prepare and compact foundation sub-base	SF	289.85	1.50	435
594	Imported sand gravel fill below foundations - 12" thick	CY	10.74	50.00	537
620	Imported foundation backfill	CY	85.89	30.00	2,577
	A9010 - Substructure Excavation			3.98/SF	6,877
	A90 - SUBSTRUCTURE RELATED ACTIVITIES			3.98/SF	6,877
CONCESSIONS/RESTROOMS FOUNDATION WORKS				58.64/SF	101,448

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

SITE - SUMMARY

BD Base Design

B Sitework

Rates Current At August 2022

Ref	Description	GFAR USD/SF	Total Cost USD
F20	Facility Remediation		
F2010	Hazardous Materials Remediation		1,900,000
	F20 - Facility Remediation		1,900,000
F30	Demolition		
F3010	Structure Demolition		1,708,622
	F30 - Demolition		1,708,622
G10	Site Preparation		
G1010	Site Clearing		1,548,650
G1020	Site Elements Demolition		1,239,169
G1070	Site Earthwork		13,016,717
	G10 - Site Preparation		15,804,536
G20	Site Improvements		
G2010	Roadways		1,609,816
G2020	Parking Lots		1,902,618
G2030	Pedestrian Plazas and Walkways		508,389
G2050	Athletic, Recreational, and Playfield Areas		3,493,685
G2060	Site Development		2,140,369
G2080	Landscaping		837,239
	G20 - Site Improvements		10,492,116
G30	Liquid and Gas Site Utilities		
G3010	Water Utilities		1,139,555
G3020	Sanitary Sewerage Utilities		869,900
G3030	Storm Drainage Utilities		4,642,829
G3090	Liquid and Gas Site Utilities Supplementary Components		1,116,263
	G30 - Liquid and Gas Site Utilities		7,768,547
G40	Electrical Site Improvements		
G4010	Site Electric Distribution Systems		2,313,188
G4050	Site Lighting		1,038,072
	G40 - Electrical Site Improvements		3,351,260

DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

SITE - SUMMARY

BD Base Design

B Sitework (continued)

Rates Current At August 2022

Ref	Description	GFAR USD/SF	Total Cost USD
G50	Site Communications		
G5010	Site Communications		408,590
	G50 - Site Communications		408,590
SITEWORK			41,433,671

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL

DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3



SITE - SUMMARY

BD Base Design

B Sitework (continued)

Rates Current At August 2022

Ref	Description	GFAR USD/SF	Total Cost USD
MARGINS & ADJUSTMENTS			
	Design & Estimating Contingency		1,657,346
	Escalation Allowance up to mid-point of Construction		2,434,643
	Sub-contractor Bonds		546,308
	General Liability Insurance (per CM Pricing Exhibit 1)		519,553
	Savings for Utilizing CCIP		-129,306
	Builder's Risk Insurance (per CM Pricing Exhibit 1)		78,720
	Payment & Performance Bond (per CM Pricing Exhibit 1)		398,848
	General Conditions (per CM Pricing Exhibit 1)		2,087,763
	General Requirements (per CM Pricing Exhibit 1)		1,302,561
	Allowance for Additional Requirements not included in CM Pricing Exhibit 1		215,511
	CM Construction Contingency (per CM Pricing Exhibit 1)		1,176,727
	CM Fee (per CM Pricing Exhibit 1)		906,258
ESTIMATED TOTAL COST			52,628,603

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

SITE - DETAILS

BD Base Design

B Sitework

Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
F20	FACILITY REMEDIATION				
F2010	Hazardous Materials Remediation				
552	Allowance for hazardous materials abatement	LS	1.00	1,900,000.00	1,900,000
	F2010 - Hazardous Materials Remediation				1,900,000
	F20 - FACILITY REMEDIATION				1,900,000
F30	DEMOLITION				
F3010	Structure Demolition				
553	Demolish existing school building	SF	239,144.00	7.00	1,674,008
554	Demolish miscellaneous support/outbuildings	SF	5,769.00	6.00	34,614
	F3010 - Structure Demolition				1,708,622
	F30 - DEMOLITION				1,708,622
G10	SITE PREPARATION				
G1010	Site Clearing				
672	Dust control	LS	1.00	75,000.00	75,000
676	Clearing and grubbing	Acre	34.900	8,500.00	296,650
677	Tree removal	EA	100.00	850.00	85,000
678	Site fencing including maintenance	LF	7,000.00	56.00	392,000
679	Mobilization	LS	1.00	150,000.00	150,000
680	Submittals, as-builts, layout, survey, etc.	LS	1.00	550,000.00	550,000
	G1010 - Site Clearing				1,548,650
G1020	Site Elements Demolition				
523	Remove and dispose of existing catch basins	EA	31.00	750.00	23,250
524	Remove and dispose of existing manholes	EA	17.00	750.00	12,750
525	Remove and dispose existing utilities piping	LF	1,486.00	35.00	52,010
526	Protect and maintain existing hydrant	EA	1.00	500.00	500
527	Cap water main	EA	1.00	1,500.00	1,500
528	Remove and dispose M&P structure	EA	3.00	1,000.00	3,000
531	Remove existing fire hydrant	EA	1.00	250.00	250
532	Maintain and protect existing sewer manhole	EA	6.00	300.00	1,800
533	Break-out and remove existing pavements	SF	261,335.00	2.50	653,338
534	Break-out and remove existing basketball courts	SF	12,883.00	2.50	32,208
536	Remove and dispose existing light poles and associated wiring	EA	16.00	300.00	4,800

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

SITE - DETAILS

BD Base Design

B Sitework (continued)

Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
541	Remove and dispose existing light sconces and associated wiring	EA	25.00	100.00	2,500
544	Remove and dispose of existing fencing	LF	1,920.00	22.50	43,200
545	Remove and dispose of existing metal guardrail	LF	741.00	30.00	22,230
555	Remove and dispose of buried fuel tanks	EA	2.00	30,000.00	60,000
556	Remove and dispose of above grade gas tanks	EA	4.00	500.00	2,000
557	Remove and dispose of sliding gate	EA	6.00	400.00	2,400
559	Remove and dispose of jersey barrier	LF	40.00	30.00	1,200
560	Remove and dispose of trailers	EA	4.00	1,300.00	5,200
1439	Remove and dispose backstop	LF	196.00	25.00	4,900
561	Allowance for miscellaneous site demolition not indicated on plans	SF	1,517,556.00	0.15	227,633
762	Existing building electrical demolition (phased)	EA	1.00	75,000.00	75,000
1442	Remove and dispose benches	EA	2.00	350.00	700
1443	Demolish concrete retaining walls	LF	66.00	50.00	3,300
1444	Remove and dispose of recreational equipment	LS	1.00	3,500.00	3,500
G1020 - Site Elements Demolition					1,239,169
G1070	Site Earthwork				
666	Excavate to proposed level	CY	63,398.00	18.00	1,141,164
667	Excavate to proposed level, rock excavation including survey, drilling, stockpile, etc.	CY	156,279.00	40.00	6,251,160
1813	Allowance for trenching, etc.	CY	10,500.00	65.00	682,500
668	Fill to proposed level using excavated materials	CY	111,555.00	12.00	1,338,660
1697	Remove excess materials from site	CY	86,540.00	14.00	1,211,560
669	Allowance for fine grading	SF	1,384,877.00	0.35	484,707
670	Allowance for dewatering	LS	1.00	450,000.00	450,000
673	Inlet protection	EA	151.00	350.00	52,850
674	Construction entrance	EA	3.00	7,500.00	22,500
675	Haybale and silt fencing including maintenance	LF	8,417.00	11.00	92,587
813	Temporary access road and repairs	LS	1.00	150,000.00	150,000
814	Temporary walkways	LS	1.00	50,000.00	50,000
1828	Erosion control blankets and mats	LS	1.00	40,000.00	40,000
1829	Additional erosion control maintenance and removal	LS	1.00	90,000.00	90,000

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

SITE - DETAILS

BD Base Design

B Sitework (continued)

Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
733	Excavate for roadway paving	CY	3,436.00	16.00	54,976
1482	Remove spoils from site (roadway)	CY	3,436.00	14.00	48,104
738	Excavate for parking lot paving	CY	11,404.00	16.00	182,464
1476	Remove spoils from site (parking lot paving)	CY	11,404.00	14.00	159,656
743	Excavate for walkways paving	CY	1,661.20	16.00	26,580
1518	Remove spoils from site (walkways paving)	CY	1,661.20	14.00	23,257
755	Excavate athletic fields	CY	10,466.40	16.00	167,462
1826	Remove spoils from site (athletic fields)	CY	10,466.40	14.00	146,530
1814	Allowance for rock scaling	LS	1.00	150,000.00	150,000
G1070 - Site Earthwork					13,016,717
G10 - SITE PREPARATION					15,804,536
G20	SITE IMPROVEMENTS				
G2010	Roadways				
167	Farm street driveway intersection improvement including paving milling and overall, granite curbs, traffic signal, etc.	LS	1.00	200,000.00	200,000
735	Stock pile excavated materials for re-use (none indicated)	CY	3,436.00		Excl.
734	Prepare and compact subbase	SF	89,714.00	0.75	67,286
736	Granular fill, 12" thick, re-use excavated materials	CY	3,323.00	15.00	49,845
247	Vehicular asphalt paving, 4" overall thickness	SY	9,969.00	40.00	398,760
1483	Imported compacted gravel borrow	CY	2,216.00		Excl.
1484	Imported dense grade crushed stone	CY	1,108.00		Excl.
248	Vertical granite curb	LF	2,257.00	60.00	135,420
828	Cape cod berm	LF	4,307.00	20.00	86,140
258	Riprap swale (re-use existing or blasted materials)	SF	42,731.00	15.00	640,965
737	Pavement markings	SF	89,714.00	0.35	31,400
G2010 - Roadways					1,609,816
G2020	Parking Lots				
739	Stock pile excavated materials for re-use (none indicated)	CY	11,404.00		Excl.
740	Prepare and compact subbase	SF	240,280.00	0.75	180,210
742	Granular fill, re-use excavated materials	CY	8,900.00	15.00	133,500
1480	Imported compacted gravel borrow	CY	5,984.00		Excl.

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

SITE - DETAILS

BD Base Design

B Sitework (continued)

Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1481	Imported dense grade crushed stone	CY	2,916.00		Excl.
253	Asphalt paving, 4" overall thickness	SY	26,242.00	40.00	1,049,680
290	Vehicular concrete paving, 6" thick	SY	457.00	115.00	52,555
255	Vertical granite curb	LF	4,768.00	60.00	286,080
671	Cape cod berm	LF	5,405.00	20.00	108,100
262	Accessible pavement markings	SF	4,955.00	3.25	16,104
263	Crosswalk markings	SF	964.00	3.25	3,133
265	EV pavement markings	EA	10.00	600.00	6,000
266	Electric vehicle charging station (refer to Site Electrical)	EA	5.00		Incl.
261	Green vehicle pavement markings	EA	20.00	850.00	17,000
257	Handicap vehicle pavement markings	EA	21.00	650.00	13,650
357	Parking line marking	LF	6,479.00	5.65	36,606
G2020 - Parking Lots					1,902,618
G2030	Pedestrian Plazas and Walkways				
744	Stock pile excavated materials for re-use (none indicated)	CY	1,661.20		Excl.
745	Prepare and compact subbase	SF	46,887.50	0.75	35,166
746	Granular fill, re-use excavated materials	CY	1,157.80	15.00	17,367
1519	Imported compacted gravel borrow	CY	854.70		Excl.
1520	Imported dense grade crushed stone	CY	303.80		Excl.
256	Asphalt walkway pavement	SY	2,734.10	35.00	95,694
718	Vehicular concrete walkway (Alternate)	SY	448.00		Excl.
264	Accessible curb ramp	SF	379.00		Incl.
269	Integral color aggregate concrete paving	SF	4,772.00	18.00	85,896
1830	Extra over for accent bands	LS	1.00	20,000.00	20,000
273	Granite pavers, type A (item deleted)	SF	895.00		Excl.
279	Concrete unit plank pavers, type B (item deleted)	SF	1,010.00		Excl.
362	Concrete walkway paving	SF	17,512.00	13.00	227,656
1487	Extra over for etched texts	EA	91.00	150.00	13,650
367	Detectable warning	SF	288.00	45.00	12,960
G2030 - Pedestrian Plazas and Walkways					508,389

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

SITE - DETAILS

BD Base Design

B Sitework (continued)

Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
G2050	Athletic, Recreational, and Playfield Areas				
756	Stock pile excavated materials for re-use (none indicated)	CY	10,466.40		Excl.
757	Prepare and compact subbase	SF	230,318.50	0.75	172,739
758	Granular base to athletic fields, re-use excavated materials (none indicated)	CY	8,203.40	15.00	123,051
1573	Imported compacted gravel borrow	CY	2,773.20		Excl.
1574	Imported dense grade crushed stone	CY	5,431.00		Excl.
388	Natural grass turf (Baseball Courts and Soccer Field)	SF	80,608.50	3.75	302,282
389	Natural grass turf (Football Court)	SF	78,288.00	3.75	293,580
1522	Irrigation to natural grass turf	SF	60,606.00	1.50	90,909
405	Urethane resilient track surfacing (D-Zone)	SF	21,811.00	24.75	539,822
404	Urethane resilient track surfacing on asphalt (6-Lane Track)	SF	31,943.00	24.75	790,589
390	4" Asphalt paving with acrylic sand color seal coat (Tennis Court)	SF	18,415.00		Excl.
391	Engineered infield mix (Baseball Courts)	SF	17,668.90	4.50	79,510
723	10'-0" High BVC chainlink fence	LF	37.00	160.00	5,920
693	6'-0" High BVC chainlink fence	LF	717.60	95.00	68,172
397	4'-0" High BVC chainlink fence	LF	1,505.10	60.00	90,306
398	4'-0" High BVC chainlink fence single leaf gate	EA	4.00	350.00	1,400
725	6'-0" High BVC chainlink fence single leaf gate	EA	2.00	450.00	900
694	4'-0" High BVC chainlink fence double leaf gate	EA	3.00	700.00	2,100
724	10'-0" High BVC chainlink fence double leaf gate	EA	1.00	1,000.00	1,000
697	Shotput cage - allow 20' high	LF	69.00	350.00	24,150
406	Trench drain	LF	1,307.00	100.00	130,700
396	Electronic scoreboard - steel posts with concrete footing	EA	3.00	8,000.00	24,000
417	Football goal post and footing	EA	2.00	20,000.00	40,000
416	20'-0" high sports netting	LF	618.00	500.00	309,000
418	Long jump runway	SF	1,908.00		Incl.
419	Long jump pit	SF	755.00	20.00	15,100
420	Shotput throwing pad and landing sector	SF	200.00		Incl.
422	Stabilized stonedust	SF	176.00	3.00	528

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

SITE - DETAILS

BD Base Design

B Sitework (continued)

Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
429	Team bench	LF	120.00	95.00	11,400
689	Reinforcement concrete pad	SF	834.70	25.00	20,867
1706	Cast-in-place grandstand footings, 2' dia x 5' deep	EA	24.00	850.00	20,400
690	Asphalt pad	SY	46.00	60.00	2,760
695	Pole vault runway	SF	633.00		Incl.
696	Pole vault box	EA	1.00	1,500.00	1,500
726	Foul pole including footing	EA	3.00	7,000.00	21,000
699	Aluminum bleacher system including prefabricated booth and walls - Football field, 508 person	LS	1.00	70,000.00	70,000
704	Aluminum bleacher system - Baseball field, 50 person	LS	1.00	30,000.00	30,000
709	Aluminum bleacher system - Softball field, 30 person	LS	1.00		Excl.
700	Allowance for concrete footings to bleacher system (refer to Press Booth)	SF	5,144.00		Incl.
701	Outdoor fitness equipment - by Owner	EA	5.00		Excl.
770	Exterior scoreboard football	EA	1.00	150,000.00	150,000
771	Exterior scoreboard softball	EA	1.00	60,000.00	60,000
G2050 - Athletic, Recreational, and Playfield Areas					3,493,685
G2060	Site Development				
54	Granite veneer to retaining wall - not required	SF	3,264.00		Excl.
259	Guardrail along riprap slope	LF	2,622.00	125.00	327,750
260	Segmented retaining wall	LF	328.00	250.00	82,000
270	Straight Gabion seat, 18" x 18" W	LF	42.00	650.00	27,300
271	Curved Gabion seat with wall mount wood topper, 18" x 18" W	LF	14.00	650.00	9,100
1576	Gabion fence, 15" x 42"	LF	24.00	450.00	10,800
1577	Gabion fence signage	EA	8.00	1,500.00	12,000
278	Cafe wood backless seat	EA	48.00	2,000.00	96,000
1583	Cafe wood back chair	EA	20.00	1,500.00	30,000
289	Dumpster - by Owner	EA	2.00		Excl.
778	Poured in place rubber safety surfacing	SF	933.00		Excl.
369	Steel bollard (at walkway)	EA	59.00	750.00	44,250
370	4'-0" High wire mesh fence	LF	114.00		Excl.
682	6'-0" High wire mesh fence	LF	99.00	575.00	56,925

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

SITE - DETAILS

BD Base Design

B Sitework (continued)

Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
371	4'-0" High Gabion fence wall with metal signage	LF	25.00	400.00	10,000
372	4'-0" High ornamental fence	LF	60.00	350.00	21,000
374	Custom 2" black granite slab wall mounted on perforated galv. metal seat framing	LF	49.00		Excl.
377	8'-0" High chain link double leaf gate	Pair	6.00	950.00	5,700
378	8'-0" High BVC chainlink fence	LF	280.00	120.00	33,600
387	10'-0" High BVC chainlink fence	LF	718.00		Excl.
380	Equipment concrete pad	SF	1,290.00	30.00	38,700
381	Wood deck	SF	401.00	125.00	50,125
399	Pre-engineered elevated boardwalk ramping system	SF	4,545.00	110.00	499,950
400	CIP Concrete stair	SF	2,392.00		Excl.
401	CIP Concrete ramp	SF	2,774.00	30.00	83,220
402	Guardrail to CIP concrete stair / ramp	LF	534.00	300.00	160,200
373	CIP Retaining wall	CY	74.00	1,800.00	133,200
728	CIP Retaining wall strip footing	CY	57.00	1,000.00	57,000
1575	Pre-engineered stairs	SF	792.00	150.00	118,800
1578	Custom perforated seat box, 3/16" thick, 2' x 8'	EA	6.00	10,000.00	60,000
1579	Custom perforated seat box, 3/16" thick, 2' x 2'	EA	4.00	2,500.00	10,000
1580	Custom solid panel set box, 1/4" thick, 2' x 8'	EA	3.00	12,500.00	37,500
1584	Backless straight inline bench, 23.5" x 87.5" L	EA	5.00	3,600.00	18,000
1585	Backed straight inline bench, 23.5" x 87.5" L	EA	3.00	4,100.00	12,300
1792	Backless straight inline bench, 23.5" x 87.5" L (gabion mounted)	EA	7.00	3,850.00	26,950
1793	Backed straight inline bench, 23.5" x 86.5" L (gabion mounted)	EA	2.00	4,350.00	8,700
1794	Curved backless piano key bench, 27.5" x 78.5" x 23" (gabion mounted)	EA	5.00	3,900.00	19,500
1795	Curved backed piano key bench, 27.5" x 78.5" x 23" (gabion mounted)	EA	2.00	5,000.00	10,000
1586	Cafe table, 36" square	EA	17.00	3,050.00	51,850
1587	Concession table/bench	EA	4.00	4,200.00	16,800
1588	Playground picnic table/bench	EA	1.00	4,600.00	4,600
1589	Trash receptacle, 50 liter capacity	EA	6.00	1,800.00	10,800
1590	"Flo" bike racks	EA	5.00	1,150.00	5,750

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

SITE - DETAILS

BD Base Design

B Sitework (continued)

Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1979	Reduce site furnishings (TVD)	LS	1.00	-60,001.00	-60,001
G2060 - Site Development					2,140,369
G2080	Landscaping				
407	Low mow lawn	SF	288,557.00	0.75	216,418
789	Imported planting mix	CY	6,176.00	60.00	370,560
1646	Restoration seed mix	SF	36,202.00	0.25	9,051
791	Lawn irrigation system - not required	SF	288,557.00		Excl.
1591	Boulder seating, onsite sourcing	EA	32.00		Excl.
1595	Trees	Note			
1596	October glory red maple, 3.0-3.5" Cal.	EA	3.00	1,200.00	3,600
1597	Red maple, 1" Cal.	EA	10.00	700.00	7,000
1598	Dawn redwood, 3" Cal.	EA	8.00	1,200.00	9,600
1599	White oak, 1.5" Cal.	EA	18.00	700.00	12,600
1600	Burr oak, 2-2.5" Cal.	EA	8.00	1,000.00	8,000
1601	Deciduous Trees	Note			
1602	Redpointe maple, 2.5-3" Cal.	EA	29.00	1,000.00	29,000
1603	Sugar maple, 2.5" Cal.	EA	5.00	1,000.00	5,000
1604	Clump paper birch, 7-8' Ht.	EA	22.00	800.00	17,600
1605	Dura heat river birch, 6-7' Ht.	EA	2.00	800.00	1,600
1606	Heritage birch, 10-12' Ht.	EA	1.00	1,200.00	1,200
1607	Whitespire birch, 12-14' Ht.	EA	6.00	1,200.00	7,200
1608	Renaissance upright paper birch, 10-12' Ht.	EA	9.00	1,200.00	10,800
1609	American beech, 2-2.5" Cal.	EA	10.00	1,000.00	10,000
1610	Black gum, 2.5" Cal.	EA	8.00	1,000.00	8,000
1611	Swamp white oak, 3" Cal.	EA	7.00	1,200.00	8,400
1612	Red oak, 2.5-3" Cal.	EA	21.00	1,000.00	21,000
1613	American elm, 2.5-3" Cal.	EA	19.00	1,000.00	19,000
1614	Evergreen Trees	Note			
1615	Eastern red cedar, 7-8' Ht.	EA	12.00	800.00	9,600
1616	Pitch pine, 6-7' Ht.	EA	14.00	800.00	11,200
1617	White pine, 8-10' Ht.	EA	26.00	800.00	20,800
1618	White pine, 5-6' Ht.	EA	11.00	500.00	5,500

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

SITE - DETAILS

BD Base Design

B Sitework (continued)

Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1619	Ornamental Trees	Note			
1620	Downy serviceberry, 4.5-5' Ht.	EA	6.00	500.00	3,000
1621	"Autumn Brilliance" serviceberry, 7-8' Ht.	EA	12.00	800.00	9,600
1622	Donald wyman crabapple, 2-2.5" Cal.	EA	12.00	1,000.00	12,000
1623	Ground Covers	Note			
1624	Pennsylvania sedge, plugs	EA	2,592.00	10.00	25,920
1625	Shrubs	Note			
1626	Gro-low fragrant sumac, 1 Gal.	EA	202.00	20.00	4,040
1978	Planting reduction (TVD)	LS	1.00	-40,050.00	-40,050
G2080 - Landscaping					837,239
G20 - SITE IMPROVEMENTS					10,492,116
G30	LIQUID AND GAS SITE UTILITIES				
G3010	Water Utilities				
1375	Connect to existing water line on old Nahant road	EA	1.00	100,000.00	100,000
1386	Remove existing fitting and connect to main existing	EA	1.00	10,000.00	10,000
1383	Connection to building	EA	5.00	600.00	3,000
1374	8", Ductile iron pipe	LF	6,487.00	125.00	810,875
1381	6", Ductile iron pipe	LF	801.00	100.00	80,100
1384	4", Ductile iron pipe	LF	264.00	65.00	17,160
1382	2", Ductile iron pipe	LF	83.00	40.00	3,320
1376	8", Water valve	EA	6.00	2,500.00	15,000
1379	6", Water valve	EA	9.00	2,100.00	18,900
1385	4", Water valve	EA	1.00	1,500.00	1,500
1380	2", Water valve - allow	EA	1.00	1,250.00	1,250
1378	6", Hydrant	EA	11.00	5,000.00	55,000
1377	Trust block	EA	67.00	350.00	23,450
1448	Pipe cleaning	LF	7,633.00		Excl.
569	Excavation and backfill (with site preparation)	LF	7,633.00		Incl.
G3010 - Water Utilities					1,139,555
G3020	Sanitary Sewerage Utilities				
580	Connect to existing line	EA	1.00	5,000.00	5,000
1391	Connection to building sanitary service	EA	13.00	500.00	6,500

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

SITE - DETAILS

BD Base Design

B Sitework (continued)

Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1394	Submersible sanitary pump c/w with piping and valves	EA	1.00	23,000.00	23,000
1389	Sewer pump station	EA	1.00	140,000.00	140,000
1390	Sewer valve chamber structure	EA	1.00	15,000.00	15,000
1388	SMH, Sanitary manhole	EA	37.00	6,000.00	222,000
1387	6, Sanitary sewer, PVC	LF	4,054.00	100.00	405,400
1392	6, FM, sanitary sewer, PVC	LF	517.00	100.00	51,700
1393	Thrust block	EA	2.00	650.00	1,300
581	Clean existing sewer line	LF	1,550.00		Excl.
574	Precast grease traps, refer to Plumbing	EA	2.00		Incl.
577	Excavation and backfill (with site preparation)	LF	8,625.00		Incl.
G3020 - Sanitary Sewerage Utilities					869,900
G3030	Storm Drainage Utilities				
1433	6", HDPE underdrain for subsurface system 1 to 5	LF	2,697.00	25.00	67,425
1402	12", HDPE underdrain	LF	592.00	35.00	20,720
1411	6", HDPE storm drain pipe	LF	261.00	20.00	5,220
1410	8", HDPE storm drain pipe	LF	346.00	25.00	8,650
1409	10", Corrugated HDPE storm drain pipe	LF	356.00	23.00	8,188
1400	12", Corrugated HDPE storm drain pipe	LF	8,746.00	35.00	306,110
1403	15", Corrugated HDPE storm drain pipe	LF	1,087.00	40.00	43,480
1405	18", Corrugated HDPE storm drain pipe	LF	1,346.00	55.00	74,030
1406	24", Corrugated HDPE storm drain pipe	LF	72.00	75.00	5,400
1407	30", Corrugated HDPE storm drain pipe	LF	486.00	90.00	43,740
1408	36", Corrugated HDPE storm drain pipe	LF	475.00	130.00	61,750
1412	Area drain	EA	21.00	1,000.00	21,000
1413	Catch basins	EA	97.00	5,000.00	485,000
1414	Curb inlet	EA	5.00	6,500.00	32,500
1431	12", clean out	EA	1.00	1,000.00	1,000
1415	DMH - Drain manhole - 4'	EA	74.00	6,500.00	481,000
1416	DMH - Drain manhole - 5'	EA	7.00	8,500.00	59,500
1417	DMH - Drain manhole - 6'	EA	1.00	10,000.00	10,000
1422	Remove and replace existing DMH	EA	1.00	10,000.00	10,000
1419	FES - Flared End Section	EA	8.00	2,500.00	20,000

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

SITE - DETAILS

BD Base Design

B Sitework (continued)

Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1420	Headwall	EA	1.00	10,000.00	10,000
1421	OCS, Outlet control structure	EA	4.00	10,000.00	40,000
1423	WQS, Water quality structure	EA	16.00	15,000.00	240,000
1425	Trench drain	LF	200.00	250.00	50,000
1424	Connection to building	EA	12.00	1,000.00	12,000
1426	Connect to existing CB and convert the existing CB to DMH	EA	1.00	10,000.00	10,000
1427	Connect to existing manhole	EA	1.00	2,000.00	2,000
1428	Connect to field underdrain	EA	1.00	2,000.00	2,000
1432	Precast concrete culvert - assumed 12'x3'	LF	32.00	2,570.00	82,240
1434	Subsurface#1 - 15 rows - 60 MC-3500 c/w 14 c/w manifold	EA	1.00	72,340.00	72,340
1435	Subsurface#2 - 15 rows - 527 MC-3500 c/w manifold	EA	1.00	630,000.00	630,000
1436	Subsurface#3 - 16 rows - 208 MC-3500 c/w manifold	EA	1.00	259,300.00	259,300
1437	Subsurface#4 - 4 rows - 104 SC-740 c/w manifold	EA	1.00	69,250.00	69,250
1438	Subsurface#5 - 2 rows - 12 SC-740 c/w outlet manifold	EA	1.00	11,590.00	11,590
1775	Inspection ports	No	52.00	1,275.00	66,300
1774	Allowances for non-woven geotextile	LS	1.00	20,000.00	20,000
602	Excavation and backfill (refer to site preparation)	LF	16,770.00		Incl.
1773	Excavation and backfill for subsurface	CY	19,835.00	40.00	793,400
611	Bioretention basin including piping, bedding, planting mix, excavation, etc.	SF	3,848.00	2.00	7,696
681	Allowance for temporary retention basin including piping, etc.	LS	1.00	500,000.00	500,000
G3030 - Storm Drainage Utilities					4,642,829
G3090	Liquid and Gas Site Utilities Supplementary Components				
793	Allowance for miscellaneous site utilities not yet designed	LS	1.00	100,000.00	100,000
1450	Demo mechanical site piping	LF	7,816.00	15.00	117,240
1451	Excavation and backfill for demoed mechanical site services	LF	7,816.00	50.00	390,800

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

SITE - DETAILS

BD Base Design

B Sitework (continued)

Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
1798	General requirements: supervision, shop drawings, as-built drawings, equipment rentals, fees, permits, etc.	Item			508,223
	G3090 - Liquid and Gas Site Utilities Supplementary Components				1,116,263
	G30 - LIQUID AND GAS SITE UTILITIES				7,768,547
G40	ELECTRICAL SITE IMPROVEMENTS				
G4010	Site Electric Distribution Systems				
811	Secondary 4000 amp feeder to school electrical room	LF	260.00	969.00	251,940
184	Primary 4000 amp feeder #1 (8-4" conduits) utility supplied cable	LF	940.00	250.00	235,000
185	Primary 4000 amp feeder #2 (8-4" conduits) utility supplied cable	LF	931.00	250.00	232,750
186	Fire Pump feeder 200 amps (2-4" conduits)	LF	376.00	56.00	21,056
187	Secondary generator feeder (4-400 amp feeds)	LF	680.00	125.50	85,340
188	Secondary feeder to maintenance building 400 amp service)	LF	619.00	125.50	77,685
201	Field electrical service 75 kva transformer service EV Charging Stations	EA	2.00	42,040.00	84,080
204	Field service to concessions 250 amps	LF	592.00	65.00	38,480
205	Field service to athletic building 1200 amps	LF	94.00	125.50	11,797
208	Primary to padmount transformer for field buildings	LF	220.00	88.00	19,360
213	Sports field grounding	EA	1.00	8,500.00	8,500
706	Secondary service manholes	EA	11.00	2,450.00	26,950
766	Utility pole modifications (not included)	EA	1.00		Excl.
1836	Electrical duct bank concrete encasement	EA	1.00	1,220,250.00	1,220,250
1837	Electrical (E & B) in another division of the estimate	Note			Excl.
	G4010 - Site Electric Distribution Systems				2,313,188
G4050	Site Lighting				
214	Sports field lighting conduit & wire (pole lights)	EA	1.00	76,500.00	76,500
215	Sports field lighting control	EA	1.00	17,467.00	17,467
772	Site bench lighting	EA	1.00	8,550.00	8,550
774	Electronic gate entrance	EA	1.00	12,200.00	12,200
934	Type LST 11 flagpole (cluster)	EA	3.00	570.00	1,710
936	Double head 25 ft pole	EA	8.00	5,790.00	46,320

NORTHEAST METROPOLITAN REGIONAL TECHNICAL HIGH SCHOOL



DESIGN DEVELOPMENT COST ESTIMATE - REVISION 3

SITE - DETAILS

BD Base Design

B Sitework (continued)

Rates Current At August 2022

Ref	Description	Unit	Qty	Rate USD	Total Cost USD
937	Single head 16 ft pole	EA	34.00	4,560.00	155,040
938	Single head 14 ft pole	EA	58.00	4,330.00	251,140
940	Digital message board	EA	1.00	2,030.00	2,030
941	Monument sign lighting	EA	1.00	2,240.00	2,240
943	Musco Football lighting	EA	4.00	85,000.00	340,000
1789	Electric vehicle dual charging system	EA	10.00	10,200.00	102,000
1790	Electric vehicle dual charging system distribution panels	EA	5.00	4,575.00	22,875
G4050 - Site Lighting					1,038,072
G40 - ELECTRICAL SITE IMPROVEMENTS					3,351,260
G50	SITE COMMUNICATIONS				
G5010	Site Communications				
189	Secondary communications feeder 8-4" conduits	LF	680.00	210.00	142,800
192	Communications to maintenance building (4-4" conduits)	LF	640.00	107.00	68,480
209	Secondary communications feeder 8-4" conduits for Athletic fields	LF	685.00	210.00	143,850
1671	Outdoor CCTV Bullet cameras incl fiber cabling pole mtd	EA	2.00	990.00	1,980
1672	Outdoor CCTV dome cameras incl fiber cabling pole mtd	EA	52.00	990.00	51,480
G5010 - Site Communications					408,590
G50 - SITE COMMUNICATIONS					408,590
SITework					41,433,671