APPENDIX B

COST ESTIMATE PREPARED BY PM & C



# **PSR Estimate**

# Northeast Metropolitan Regional Vocational High School PSR Design Options

Wakefield, MA

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PMA Consultants, LLC.

December 2, 2020



**Northeast Metropolitan Regional Vocational High School** PSR Design Options Wakefield, MA

02-Dec-20

**PSR Estimate** 

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
PSR OPTIONS				
OPTION B.2 ADDITION/RENOVATION - 1250 STUDENTS	Apr-23	314,923	\$598.20	\$188,388,320
OPTION B.2 ADDITION/RENOVATION - 1400 STUDENTS	Apr-23	343,349	\$591.59	\$203,121,514
OPTION B.2 ADDITION/RENOVATION - 1600 STUDENTS	Apr-23	363,974	\$587.43	\$213,810,813
OPTION B.2 ADDITION/RENOVATION - 1660 STUDENTS	Apr-23	393,327	\$582.28	\$229,024,524
OPTION B.2 ADDITION/RENOVATION - 1722 STUDENTS	Apr-23	391,798	\$581.50	\$227,831,139
OPTION C1 NEW BUILDING - 1250 STUDENTS	Apr-23	314,923	\$669.44	\$210,823,511
OPTION C1 NEW BUILDING - 1400 STUDENTS	Apr-23	343,349	\$657.00	\$225,579,493
OPTION C1 NEW BUILDING - 1600 STUDENTS	Apr-23	382,653	\$642.83	\$245,980,382
OPTION C1 NEW BUILDING - 1660 STUDENTS	Apr-23	393,327	\$639.48	\$251,523,153
OPTION C1 NEW BUILDING - 1722 STUDENTS	Apr-23	403,554	\$636.43	\$256,832,004
OPTION C2 NEW BUILDING - 1250 STUDENTS	Apr-23	314,923	\$643.91	\$202,782,954
OPTION C2 NEW BUILDING - 1400 STUDENTS	Apr-23	343,349	\$632.39	\$217,130,622
OPTION C2 NEW BUILDING - 1600 STUDENTS	Apr-23	382,653	\$617.73	\$236,376,300
OPTION C2 NEW BUILDING - 1660 STUDENTS	Apr-23	393,327	\$616.17	\$242,356,390
OPTION C2 NEW BUILDING - 1722 STUDENTS	Apr-23	403,554	\$613.35	\$247,518,339
OPTION C3 NEW BUILDING - 1250 STUDENTS	Apr-23	314,923	\$669.41	\$210,811,391
OPTION C3 NEW BUILDING - 1400 STUDENTS	Apr-23	343,349	\$654.46	\$224,708,443
OPTION C3 NEW BUILDING - 1600 STUDENTS	Apr-23	382,653	\$637.45	\$243,923,421
OPTION C3 NEW BUILDING - 1660 STUDENTS	Apr-23	393,327	\$633.42	\$249,141,951
OPTION C3 NEW BUILDING - 1722 STUDENTS	Apr-23	403,554	\$629.76	\$254,141,783

The costs presented in this report are ONLY for the comparison between the various options. These costs should not be represented as the final construction costs as the information they are based on is extremely preliminary and final construction costs may vary significantly from the PSR costs once the final design has been completed.



PSR Design Options Wakefield, MA 02-Dec-20

#### **PSR Estimate**

This PSR cost estimate was produced from drawings, narratives and other documentation prepared by DRA Architects and their design team received November 1, 2020. Design and engineering changes occurring subsequent to the issue of these documents have not been incorporated in this estimate.

This estimate includes all direct construction costs, Construction managers overhead, fee and design contingency. Cost escalation assumes start dates indicated.

Bidding conditions are expected to be public bidding under Chapter 149a of the Massachusetts General Laws to pre-qualified construction managers, and pre-qualified sub-contractors, open specifications for materials and manufacturers.

The estimate is based on prevailing wage rates for construction in this market and represents a reasonable opinion of cost. It is not a prediction of the successful bid from a contractor as bids will vary due to fluctuating market conditions, errors and omissions, proprietary specifications, lack or surplus of bidders, perception of risk, etc. Consequently the estimate is expected to fall within the range of bids from a number of competitive contractors or subcontractors, however we do not warrant that bids or negotiated prices will not vary from the final construction cost estimate.

#### ITEMS NOT CONSIDERED IN THIS ESTIMATE

Items not included in this estimate are:

Land acquisition, feasibility, and financing costs
All professional fees and insurance
Site or existing conditions surveys investigations costs, including to determine subsoil conditions
All Furnishings, Fixtures and Equipment (except as noted in this estimate)
Items identified in the design as Not In Contract (NIC)
Items identified in the design as by others
Owner supplied and/or installed items as indicated in the estimate
Utility company back charges, including work required off-site
Work to City streets and sidewalks, (except as noted in this estimate)

Construction contingency (GMP Contingency is included) Contaminated soils removal



PSR Design Options Wakefield, MA

**PSR Estimate** 

	Construction Start		Gross oor Area	\$/sf	Estimated Construction Cost
OPTION B.2 ADDITION/RENOVATION - 125	o STUDE	ENTS			
	Apr-23				
PHASING PREMIUM (Temp walls, logistical premiums, clean-up, mobilization costs etc.)	4.0%				\$4,680,039
NEW ADDITION			73,979	\$361.31	\$26,729,352
RENOVATION		2	239,144	\$303.69	\$72,626,332
PRECAST PARKING STRUCTURE AND PEDESTRIAN BRIDGE		(	68,000	\$68.68	\$4,670,000
MAINTENANCE BUILDING - PRE-ENGINEERED			1,800	\$180.00	\$324,000
CONCESSIONS/RESTROOM			1,600	\$400.00	\$640,000
SITEWORK					\$17,645,291
REMOVE HAZARDOUS MATERIALS (CDW Consultants, Inc. 4/14/20) 1					\$1,919,675
SUB-TOTAL		3	314,923	\$410.37	\$129,234,689
ESCALATION TO MID-POINT, 3% Per annum	7.5%				\$9,692,602
DESIGN AND PRICING CONTINGENCY	15%				\$19,385,203
SUB-TOTAL		3	314,923	\$502.70	\$158,312,494
GENERAL CONDITIONS		40	MTHS	\$240,000	\$9,600,000
GENERAL REQUIREMENTS	4.00%				\$6,332,500
BONDS	1.25%				\$1,978,906
INSURANCE	1.40%				\$2,216,375
BUILDING PERMIT					By Owner
MODULARS					NR
CM FEE	2.5%				\$4,461,007
GMP CONTINGENCY	3.0%				\$5,487,038
TOTAL OF ALL CONSTRUCTION		3	314,923	\$598.20	\$188,388,320

<sup>&</sup>lt;sup>1</sup> Testing and design services are not included in the HazMat removal costs



PSR Design Options Wakefield, MA

**PSR Estimate** 

	Constructio Start	n Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION B.2 ADDITION/RENOVATION - 140	o STUDE	NTS		
	Apr-23			
PHASING PREMIUM (Temp walls, logistical premiums, clean-up, mobilization costs etc.)	4.0%			\$5,090,863
NEW ADDITION		102,405	\$361.31	\$36,999,951
RENOVATION		239,144	\$303.69	\$72,626,332
PRECAST PARKING STRUCTURE AND PEDESTRIAN BRIDGE		68,000	\$68.68	\$4,670,240
MAINTENANCE BUILDING - PRE-ENGINEERED		1,800	\$180.00	\$324,000
CONCESSIONS/RESTROOM		1,600	\$400.00	\$640,000
SITEWORK				\$17,645,291
REMOVE HAZARDOUS MATERIALS (CDW Consultants, Inc. 4/14/20) <sup>1</sup>				\$1,919,675
SUB-TOTAL		343,349	\$407.50	\$139,916,352
ESCALATION TO MID-POINT, 3% Per annum	7.5%			\$10,493,726
DESIGN AND PRICING CONTINGENCY	15%			\$20,987,453
SUB-TOTAL		343,349	\$499.19	\$171,397,531
GENERAL CONDITIONS	4	o MTHS	\$240,000	\$9,600,000
GENERAL REQUIREMENTS	4.00%			\$6,855,901
BONDS	1.25%			\$2,142,469
INSURANCE	1.40%			\$2,399,565
BUILDING PERMIT				By Owner
MODULARS				NR
CM FEE	2.5%			\$4,809,887
GMP CONTINGENCY	3.0%			\$5,916,161
TOTAL OF ALL CONSTRUCTION		343,349	\$591.59	\$203,121,514

 $<sup>^{\</sup>rm 1}$  Testing and design services are not included in the HazMat removal costs



PSR Design Options Wakefield, MA

**PSR Estimate** 

	Constructi Start	on	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION B.2 ADDITION/RENOVATION - 160	o STUDI	EN'	TS		
	Apr-23				
PHASING PREMIUM (Temp walls, logistical premiums, clean-up, mobilization costs etc.)	4.0%				\$5,388,933
NEW ADDITION			123,030	\$361.31	\$44,451,693
RENOVATION			239,144	\$303.69	\$72,626,332
PRECAST PARKING STRUCTURE AND PEDESTRIAN BRIDGE			68,000	\$68.68	\$4,670,240
MAINTENANCE BUILDING - PREENGINEERED			1,800	\$180.00	\$324,000
CONCESSIONS/RESTROOM			1,600	\$400.00	\$640,000
SITEWORK					\$17,645,291
REMOVE HAZARDOUS MATERIALS (CDW Consultants, Inc. 4/14/20) <sup>1</sup>					\$1,919,675
SUB-TOTAL		·	363,974	\$405.71	\$147,666,164
ESCALATION TO MID-POINT, 3% Per annum	7.5%				\$11,074,962
DESIGN AND PRICING CONTINGENCY	15%				\$22,149,925
SUB-TOTAL		·	363,974	\$496.99	\$180,891,051
GENERAL CONDITIONS		40	MTHS	\$240,000	\$9,600,000
GENERAL REQUIREMENTS	4.00%				\$7,235,642
BONDS	1.25%				\$2,261,138
INSURANCE	1.40%				\$2,532,475
BUILDING PERMIT					By Owner
MODULARS					NR
CM FEE	2.5%				\$5,063,008
GMP CONTINGENCY	3.0%				\$6,227,499
TOTAL OF ALL CONSTRUCTION			363,974	\$587.43	\$213,810,813

 $<sup>^{\</sup>rm 1}$  Testing and design services are not included in the HazMat removal costs



PSR Design Options Wakefield, MA

**PSR Estimate** 

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION B.2 ADDITION/RENOVATION - 166	o STUDEN	TS		
	Apr-23			
PHASING PREMIUM (Temp walls, logistical premiums, clean-up, mobilization costs etc.)	4.0%			\$5,813,165
NEW ADDITION		152,383	\$361.31	\$55,057,502
RENOVATION		239,144	\$303.69	\$72,626,332
PRECAST PARKING STRUCTURE AND PEDESTRIAN BRIDGE		68,000	\$68.68	\$4,670,240
MAINTENANCE BUILDING - PRE-ENGINEERED		1,800	\$180.00	\$324,000
CONCESSIONS/RESTROOM		1,600	\$400.00	\$640,000
SITEWORK				\$17,645,291
REMOVE HAZARDOUS MATERIALS (CDW Consultants, Inc. 4/14/20) <sup>1</sup>				\$1,919,675
SUB-TOTAL		393,327	\$403.47	\$158,696,205
ESCALATION TO MID-POINT, 3% Per annum	7.5%			\$11,902,215
DESIGN AND PRICING CONTINGENCY	15%			\$23,804,431
SUB-TOTAL		393,327	\$494.25	\$194,402,851
GENERAL CONDITIONS	40	MTHS	\$240,000	\$9,600,000
GENERAL REQUIREMENTS	4.00%			\$7,776,114
BONDS	1.25%			\$2,430,036
INSURANCE	1.40%			\$2,721,640
BUILDING PERMIT				By Owner
MODULARS				NR
CM FEE	2.5%			\$5,423,266
GMP CONTINGENCY	3.0%			\$6,670,617
TOTAL OF ALL CONSTRUCTION		393,327	\$582.28	\$229,024,524

 $<sup>^{\</sup>rm 1}$  Testing and design services are not included in the HazMat removal costs



PSR Design Options Wakefield, MA

**PSR Estimate** 

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION B.2 ADDITION/RENOVATION - 172	2 STUDEN	TS		
, , , , , , , , , , , , , , , , , , ,	Apr-23			
PHASING PREMIUM (Temp walls, logistical premiums, clean-up, mobilization costs etc.)	4.0%			\$5,779,888
NEW ADDITION		150,854	\$359.58	\$54,244,804
RENOVATION		239,144	\$303.61	\$72,607,095
PRECAST PARKING STRUCTURE AND PEDESTRIAN BRIDGE		68,000	\$68.68	\$4,670,240
MAINTENANCE BUILDING - PRE-ENGINEERED		1,800	\$180.00	\$324,000
CONCESSIONS/RESTROOM		1,600	\$400.00	\$640,000
SITEWORK				\$17,645,291
REMOVE HAZARDOUS MATERIALS (CDW Consultants, Inc. 4/14/20) <sup>1</sup>				\$1,919,675
SUB-TOTAL		391,798	\$402.84	\$157,830,993
ESCALATION TO MID-POINT, 3% Per annum	7.5%			\$11,837,324
DESIGN AND PRICING CONTINGENCY	15%			\$23,674,649
SUB-TOTAL		391,798	\$493.48	\$193,342,966
GENERAL CONDITIONS	40	MTHS	\$240,000	\$9,600,000
GENERAL REQUIREMENTS	4.00%			\$7,733,719
BONDS	1.25%			\$2,416,787
INSURANCE	1.40%			\$2,706,802
BUILDING PERMIT				By Owner
MODULARS				NR
CM FEE	2.5%			\$5,395,007
GMP CONTINGENCY	3.0%			\$6,635,858
TOTAL OF ALL CONSTRUCTION		391,798	\$581.50	\$227,831,139

 $<sup>^{\</sup>rm 1}$  Testing and design services are not included in the HazMat removal costs



PSR Design Options Wakefield, MA

**PSR Estimate** 

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION C1 NEW BUILDING - 1250 STUDEN	TS			
	Apr-23			
PHASING/LOGISTICS PREMIUM	2.0%			\$2,831,499
NEW BUILDING		313,123	\$372.59	\$116,666,499
DEMOLISH EXISTING BUILDINGS		239,144	\$8.00	\$1,913,152
MAINTENANCE BUILDING - PRE-ENGINEERED		1,800	\$180.00	\$324,000
CONCESSIONS/RESTROOM		1,600	\$400.00	\$640,000
SITEWORK				\$24,908,466
REMOVE HAZARDOUS MATERIALS (CDW Consultants, Inc. 4/14/20) <sup>1</sup>				\$1,919,675
SUB-TOTAL		314,923	\$473.78	\$149,203,291
ESCALATION TO MID-POINT, 3% Per annum	7.5%			\$11,190,247
DESIGN AND PRICING CONTINGENCY	15%			\$22,380,494
SUB-TOTAL		314,923	\$580.38	\$182,774,032
GENERAL CONDITIONS	28	MTHS	\$240,000	\$6,720,000
GENERAL REQUIREMENTS	4.00%			\$7,310,961
BONDS	1.25%			\$2,284,675
INSURANCE	1.40%			\$2,558,836
BUILDING PERMIT				By Owner
MODULARS				NR
CM FEE	2.5%			\$5,041,213
GMP CONTINGENCY	2.0%			\$4,133,794
TOTAL OF ALL CONSTRUCTION		314,923	\$669.44	\$210,823,511

<sup>&</sup>lt;sup>1</sup> Testing and design services are not included in the HazMat removal costs



PSR Design Options Wakefield, MA

**PSR Estimate** 

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION C1 NEW BUILDING - 1400 STUDEN	TS			
	Apr-23			
PHASING/LOGISTICS PREMIUM	2.0%			\$3,043,324
NEW BUILDING		341,549	\$372.59	\$127,257,742
DEMOLISH EXISTING BUILDINGS		239,144	\$8.00	\$1,913,152
MAINTENANCE BUILDING - PRE-ENGINEERED		1,800	\$180.00	\$324,000
CONCESSIONS/RESTROOM		1,600	\$400.00	\$640,000
SITEWORK				\$24,908,466
REMOVE HAZARDOUS MATERIALS (CDW Consultants, Inc. 4/14/20) 1				\$1,919,675
SUB-TOTAL		343,349	\$466.02	\$160,006,359
ESCALATION TO MID-POINT, 3% Per annum	7.5%			\$12,000,477
DESIGN AND PRICING CONTINGENCY	15%			\$24,000,954
SUB-TOTAL		343,349	\$570.87	\$196,007,790
GENERAL CONDITIONS	28	MTHS	\$240,000	\$6,720,000
GENERAL REQUIREMENTS	4.00%			\$7,840,312
BONDS	1.25%			\$2,450,097
INSURANCE	1.40%			\$2,744,109
BUILDING PERMIT				By Owner
MODULARS				NR
CM FEE	2.5%			\$5,394,058
GMP CONTINGENCY	2.0%			\$4,423,127
TOTAL OF ALL CONSTRUCTION		343,349	\$657.00	\$225,579,493

<sup>&</sup>lt;sup>1</sup> Testing and design services are not included in the HazMat removal costs



PSR Design Options Wakefield, MA

**PSR Estimate** 

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION C1 NEW BUILDING - 1600 STUDEN	TS			
	Apr-23			
PHASING/LOGISTICS PREMIUM	2.0%			\$3,336,183
NEW BUILDING		380,853	\$372.59	\$141,900,669
DEMOLISH EXISTING BUILDINGS		239,144	\$8.00	\$1,913,152
MAINTENANCE BUILDING - PRE-ENGINEERED		1,800	\$180.00	\$324,000
CONCESSIONS/RESTROOM		1,600	\$400.00	\$640,000
SITEWORK				\$24,908,466
REMOVE HAZARDOUS MATERIALS (CDW Consultants, Inc. 4/14/20) <sup>1</sup>				\$1,919,675
SUB-TOTAL		382,653	\$457.18	\$174,942,145
ESCALATION TO MID-POINT, 3% Per annum	7.5%			\$13,120,661
DESIGN AND PRICING CONTINGENCY	15%			\$26,241,322
SUB-TOTAL		382,653	\$560.05	\$214,304,128
GENERAL CONDITIONS	28	MTHS	\$240,000	\$6,720,000
GENERAL REQUIREMENTS	4.00%			\$8,572,165
BONDS	1.25%			\$2,678,802
INSURANCE	1.40%			\$3,000,258
BUILDING PERMIT				By Owner
MODULARS				NR
CM FEE	2.5%			\$5,881,884
GMP CONTINGENCY	2.0%			\$4,823,145
TOTAL OF ALL CONSTRUCTION		382,653	\$642.83	\$245,980,382

<sup>&</sup>lt;sup>1</sup> Testing and design services are not included in the HazMat removal costs



PSR Design Options Wakefield, MA

**PSR Estimate** 

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION C1 NEW BUILDING - 1660 STUDEN	TS			
	Apr-23			
PHASING/LOGISTICS PREMIUM	2.0%			\$3,415,750
NEW BUILDING		391,527	\$372.59	\$145,879,045
DEMOLISH EXISTING BUILDINGS		239,144	\$8.00	\$1,913,152
MAINTENANCE BUILDING - PRE-ENGINEERED		1,800	\$180.00	\$324,000
CONCESSIONS/RESTROOM		1,600	\$400.00	\$640,000
SITEWORK				\$24,908,466
REMOVE HAZARDOUS MATERIALS (CDW Consultants, Inc. 4/14/20) <sup>1</sup>				\$1,919,675
SUB-TOTAL		393,327	\$455.09	\$179,000,088
ESCALATION TO MID-POINT, 3% Per annum	7.5%			\$13,425,007
DESIGN AND PRICING CONTINGENCY	15%			\$26,850,013
SUB-TOTAL		393,327	\$557.49	\$219,275,108
GENERAL CONDITIONS	28	MTHS	\$240,000	\$6,720,000
GENERAL REQUIREMENTS	4.00%			\$8,771,004
BONDS	1.25%			\$2,740,939
INSURANCE	1.40%			\$3,069,852
BUILDING PERMIT				By Owner
MODULARS				NR
CM FEE	2.5%			\$6,014,423
GMP CONTINGENCY	2.0%			\$4,931,827
TOTAL OF ALL CONSTRUCTION		393,327	\$639.48	\$251,523,153

<sup>&</sup>lt;sup>1</sup> Testing and design services are not included in the HazMat removal costs



PSR Design Options Wakefield, MA

**PSR Estimate** 

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION C1 NEW BUILDING - 1722 STUDEN	ГS			
	Apr-23			
PHASING/LOGISTICS PREMIUM	2.0%			\$3,491,960
NEW BUILDING		401,754	\$372.59	\$149,689,523
DEMOLISH EXISTING BUILDINGS		239,144	\$8.00	\$1,913,152
MAINTENANCE BUILDING - PRE-ENGINEERED		1,800	\$180.00	\$324,000
CONCESSIONS/RESTROOM		1,600	\$400.00	\$640,000
SITEWORK				\$24,908,466
REMOVE HAZARDOUS MATERIALS (CDW Consultants, Inc. 4/14/20) <sup>1</sup>				\$1,919,675
SUB-TOTAL		403,554	\$453.19	\$182,886,776
ESCALATION TO MID-POINT, 3% Per annum	7.5%			\$13,716,508
DESIGN AND PRICING CONTINGENCY	15%			\$27,433,016
SUB-TOTAL		403,554	\$555.16	\$224,036,300
GENERAL CONDITIONS	28	MTHS	\$240,000	\$6,720,000
GENERAL REQUIREMENTS	4.00%			\$8,961,452
BONDS	1.25%			\$2,800,454
INSURANCE	1.40%			\$3,136,508
BUILDING PERMIT				By Owner
MODULARS				NR
CM FEE	2.5%			\$6,141,368
GMP CONTINGENCY	2.0%			\$5,035,922
TOTAL OF ALL CONSTRUCTION		403,554	\$636.43	\$256,832,004

<sup>&</sup>lt;sup>1</sup> Testing and design services are not included in the HazMat removal costs



PSR Design Options Wakefield, MA

**PSR Estimate** 

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION C2 NEW BUILDING - 1250 STUDEN	TS			
	Apr-23			
PHASING/LOGISTICS PREMIUM	2.0%			\$2,716,809
NEW BUILDING		313,123	\$362.28	\$113,438,200
DEMOLISH EXISTING BUILDINGS		234,468	\$8.00	\$1,875,744
MAINTENANCE BUILDING - PRE-ENGINEERED		1,800	\$180.00	\$324,000
CONCESSIONS/RESTROOM		1,600	\$400.00	\$640,000
SITEWORK				\$22,402,255
REMOVE HAZARDOUS MATERIALS (CDW Consultants, Inc. 4/14/20) 1				\$1,919,675
SUB-TOTAL		314,923	\$455.08	\$143,316,683
ESCALATION TO MID-POINT, 3% Per annum	7.5%			\$10,748,751
DESIGN AND PRICING CONTINGENCY	15%			\$21,497,502
SUB-TOTAL		314,923	\$557.48	\$175,562,936
GENERAL CONDITIONS	28	MTHS	\$240,000	\$6,720,000
GENERAL REQUIREMENTS	4.00%			\$7,022,517
BONDS	1.25%			\$2,194,537
INSURANCE	1.40%			\$2,457,881
BUILDING PERMIT				By Owner
MODULARS				NR
CM FEE	2.5%			\$4,848,947
GMP CONTINGENCY	2.0%			\$3,976,136
TOTAL OF ALL CONSTRUCTION		314,923	\$643.91	\$202,782,954

<sup>&</sup>lt;sup>1</sup> Testing and design services are not included in the HazMat removal costs



PSR Design Options Wakefield, MA

**PSR Estimate** 

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION C2 NEW BUILDING - 1400 STUDEN	NTS			
	Apr-23			
PHASING/LOGISTICS PREMIUM	2.0%			\$2,922,773
NEW BUILDING		341,549	\$362.28	\$123,736,372
DEMOLISH EXISTING BUILDINGS		234,468	\$8.00	\$1,875,744
MAINTENANCE BUILDING - PRE-ENGINEERED		1,800	\$180.00	\$324,000
CONCESSIONS/RESTROOM		1,600	\$400.00	\$640,000
SITEWORK				\$22,402,255
REMOVE HAZARDOUS MATERIALS (CDW Consultants, Inc. 4/14/20) 1				\$1,919,675
SUB-TOTAL		343,349	\$448.00	\$153,820,819
ESCALATION TO MID-POINT, 3% Per annum	7.5%			\$11,536,561
DESIGN AND PRICING CONTINGENCY	15%			\$23,073,123
SUB-TOTAL		343,349	\$548.80	\$188,430,503
GENERAL CONDITIONS	28	MTHS	\$240,000	\$6,720,000
GENERAL REQUIREMENTS	4.00%			\$7,537,220
BONDS	1.25%			\$2,355,381
INSURANCE	1.40%			\$2,638,027
BUILDING PERMIT				By Owner
MODULARS				NR
CM FEE	2.5%			\$5,192,028
GMP CONTINGENCY	2.0%			\$4,257,463
TOTAL OF ALL CONSTRUCTION		343,349	\$632.39	\$217,130,622

<sup>&</sup>lt;sup>1</sup> Testing and design services are not included in the HazMat removal costs



PSR Design Options Wakefield, MA

**PSR Estimate** 

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION C2 NEW BUILDING - 1600 STUDEN	ITS			
	Apr-23			
PHASING/LOGISTICS PREMIUM	2.0%			\$2,772,337
NEW BUILDING		380,853	\$362.28	\$137,976,848
DEMOLISH EXISTING BUILDINGS		234,468	\$8.00	\$1,875,744
MAINTENANCE BUILDING - PRE-ENGINEERED		1,800	\$180.00	\$324,000
CONCESSIONS/RESTROOM		1,600	\$400.00	\$640,000
SITEWORK				\$22,402,255
REMOVE HAZARDOUS MATERIALS (CDW Consultants, Inc. 4/14/20) 1				\$1,919,675
SUB-TOTAL		382,653	\$438.81	\$167,910,859
ESCALATION TO MID-POINT, 3% Per annum	7.5%			\$12,593,314
DESIGN AND PRICING CONTINGENCY	15%			\$25,186,629
SUB-TOTAL		382,653	\$537.54	\$205,690,802
GENERAL CONDITIONS	28	MTHS	\$240,000	\$6,720,000
GENERAL REQUIREMENTS	4.00%			\$8,227,632
BONDS	1.25%			\$2,571,135
INSURANCE	1.40%			\$2,879,671
BUILDING PERMIT				By Owner
MODULARS				NR
CM FEE	2.5%			\$5,652,231
GMP CONTINGENCY	2.0%			\$4,634,829
TOTAL OF ALL CONSTRUCTION		382,653	\$617.73	\$236,376,300

<sup>&</sup>lt;sup>1</sup> Testing and design services are not included in the HazMat removal costs



PSR Design Options Wakefield, MA

**PSR Estimate** 

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION C2 NEW BUILDING - 1660 STUDEN	NTS			
	Apr-23			
PHASING/LOGISTICS PREMIUM	2.0%			\$3,284,893
NEW BUILDING		391,527	\$362.28	\$141,842,402
DEMOLISH EXISTING BUILDINGS		234,468	\$8.00	\$1,875,744
MAINTENANCE BUILDING - PRE-ENGINEERED		1,800	\$180.00	\$324,000
CONCESSIONS/RESTROOM		1,600	\$400.00	\$640,000
SITEWORK				\$22,402,255
REMOVE HAZARDOUS MATERIALS (CDW Consultants, Inc. $4/14/20$ ) $^1$				\$1,919,675
SUB-TOTAL		393,327	\$438.03	\$172,288,969
ESCALATION TO MID-POINT, 3% Per annum	7.5%			\$12,921,673
DESIGN AND PRICING CONTINGENCY	15%			\$25,843,345
SUB-TOTAL		393,327	\$536.59	\$211,053,987
GENERAL CONDITIONS	28	MTHS	\$240,000	\$6,720,000
GENERAL REQUIREMENTS	4.00%			\$8,442,159
BONDS	1.25%			\$2,638,175
INSURANCE	1.40%			\$2,954,756
BUILDING PERMIT				By Owner
MODULARS				NR
CM FEE	2.5%			\$5,795,227
GMP CONTINGENCY	2.0%			\$4,752,086
TOTAL OF ALL CONSTRUCTION		393,327	\$616.17	\$242,356,390

<sup>&</sup>lt;sup>1</sup> Testing and design services are not included in the HazMat removal costs



PSR Design Options Wakefield, MA

**PSR Estimate** 

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION C2 NEW BUILDING - 1722 STUDEN	TS			
	Apr-23			
PHASING/LOGISTICS PREMIUM	2.0%			\$3,358,994
NEW BUILDING		401,754	\$362.28	\$145,547,439
DEMOLISH EXISTING BUILDINGS		234,468	\$8.00	\$1,875,744
MAINTENANCE BUILDING - PRE-ENGINEERED		1,800	\$180.00	\$324,000
CONCESSIONS/RESTROOM		1,600	\$400.00	\$640,000
SITEWORK				\$22,402,255
REMOVE HAZARDOUS MATERIALS (CDW Consultants, Inc. 4/14/20) 1				\$1,919,675
SUB-TOTAL		403,554	\$436.29	\$176,068,107
ESCALATION TO MID-POINT, 3% Per annum	7.5%			\$13,205,108
DESIGN AND PRICING CONTINGENCY	15%			\$26,410,216
SUB-TOTAL		403,554	\$534.46	\$215,683,431
GENERAL CONDITIONS	28	MTHS	\$240,000	\$6,720,000
GENERAL REQUIREMENTS	4.00%			\$8,627,337
BONDS	1.25%			\$2,696,043
INSURANCE	1.40%			\$3,019,568
BUILDING PERMIT				By Owner
MODULARS				NR
CM FEE	2.5%			\$5,918,659
GMP CONTINGENCY	2.0%			\$4,853,301
TOTAL OF ALL CONSTRUCTION		403,554	\$613.35	\$247,518,339

<sup>&</sup>lt;sup>1</sup> Testing and design services are not included in the HazMat removal costs



PSR Design Options Wakefield, MA

**PSR Estimate** 

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION C3 NEW BUILDING - 1250 STUDEN	ITS			
	Apr-23			
NEW BUILDING		305,923	\$357.92	\$109,495,960
DEMOLISH EXISTING BUILDINGS		234,468	\$8.00	\$1,875,744
MAINTENANCE BUILDING - PRE-ENGINEERED		1,800	\$180.00	\$324,000
ATHLETIC SUPPORT/FIELD MAINTENANCE		7,200	\$400.00	\$2,880,000
CONCESSIONS/RESTROOM		1,600	\$400.00	\$640,000
SITEWORK				\$31,599,783
REMOVE HAZARDOUS MATERIALS (CDW Consultants, Inc. $4/14/20$ ) $^1$				\$1,919,675
SUB-TOTAL		314,923	\$472.29	\$148,735,162
ESCALATION TO MID-POINT, 3% Per annum	7.5%			\$11,155,137
DESIGN AND PRICING CONTINGENCY	15%			\$22,310,274
SUB-TOTAL		314,923	\$578.56	\$182,200,573
GENERAL CONDITIONS	28	MTHS	\$240,000	\$6,720,000
GENERAL CONDITIONS - EARLY ROCK OPERATION	8	MTHS	\$75,000	\$600,000
GENERAL REQUIREMENTS	4.00%			\$7,288,023
BONDS	1.25%			\$2,277,507
INSURANCE BUILDING PERMIT	1.40%			\$2,550,808 By Owner
DUILDING FERMIT				by Owner
MODULARS				NR
CM FEE	2.5%			\$5,040,923
GMP CONTINGENCY	2.0%			\$4,133,557
TOTAL OF ALL CONSTRUCTION		314,923	\$669.41	\$210,811,391

<sup>&</sup>lt;sup>1</sup>Testing and design services are not included in the HazMat removal costs



PSR Design Options Wakefield, MA

**PSR Estimate** 

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION C3 NEW BUILDING - 1400 STUDE	NTS			
	Apr-23			
NEW BUILDING		334,349	\$357.92	\$119,670,194
DEMOLISH EXISTING BUILDINGS		234,468	\$8.00	\$1,875,744
MAINTENANCE BUILDING - PRE-ENGINEERED		1,800	\$180.00	\$324,000
ATHLETIC SUPPORT/FIELD MAINTENANCE		7,200	\$400.00	\$2,880,000
CONCESSIONS/RESTROOM		1,600	\$400.00	\$640,000
SITEWORK				\$31,599,783
REMOVE HAZARDOUS MATERIALS (CDW Consultants, Inc. 4/14/20) <sup>1</sup>	1			\$1,919,675
SUB-TOTAL		343,349	\$462.82	\$158,909,396
ESCALATION TO MID-POINT, 3% Per annum	7.5%			\$11,918,205
DESIGN AND PRICING CONTINGENCY	15%			\$23,836,409
SUB-TOTAL		343,349	\$566.96	\$194,664,010
GENERAL CONDITIONS	28	MTHS	\$240,000	\$6,720,000
GENERAL CONDITIONS - EARLY ROCK OPERATION	8	MTHS	\$75,000	\$600,000
GENERAL REQUIREMENTS	4.00%			\$7,786,560
BONDS	1.25%			\$2,433,300
INSURANCE	1.40%			\$2,725,296
BUILDING PERMIT				By Owner
MODULARS				NR
CM FEE	2.5%			\$5,373,229
GMP CONTINGENCY	2.0%			\$4,406,048
TOTAL OF ALL CONSTRUCTION		343,349	\$654.46	\$224,708,443

<sup>&</sup>lt;sup>1</sup>Testing and design services are not included in the HazMat removal costs



PSR Design Options Wakefield, MA

**PSR Estimate** 

	Constructi Start		Gross loor Area	\$/sf	Estimated Construction Cost
OPTION C3 NEW BUILDING - 1600 STUDE	ENTS				
	Apr-23				
NEW BUILDING			373,653	\$357.92	\$133,737,757
DEMOLISH EXISTING BUILDINGS			234,468	\$8.00	\$1,875,744
MAINTENANCE BUILDING - PRE-ENGINEERED			1,800	\$180.00	\$324,000
ATHLETIC SUPPORT/FIELD MAINTENANCE			7,200	\$400.00	\$2,880,000
CONCESSIONS/RESTROOM			1,600	\$400.00	\$640,000
SITEWORK					\$31,599,783
REMOVE HAZARDOUS MATERIALS (CDW Consultants, Inc. 4/14/20)	1				\$1,919,675
SUB-TOTAL			382,653	\$452.05	\$172,976,959
ESCALATION TO MID-POINT, 3% Per annum	7.5%				\$12,973,272
DESIGN AND PRICING CONTINGENCY	15%				\$25,946,544
SUB-TOTAL			382,653	\$553.76	\$211,896,775
GENERAL CONDITIONS		28	MTHS	\$240,000	\$6,720,000
GENERAL CONDITIONS - EARLY ROCK OPERATION		8	MTHS	\$75,000	\$600,000
GENERAL REQUIREMENTS	4.00%				\$8,475,871
BONDS	1.25%				\$2,648,710
INSURANCE	1.40%				\$2,966,555
BUILDING PERMIT					By Owner
MODULARS					NR
CM FEE	2.5%				\$5,832,698
GMP CONTINGENCY	2.0%				\$4,782,812
TOTAL OF ALL CONSTRUCTION			382,653	\$637.45	\$243,923,421

<sup>&</sup>lt;sup>1</sup>Testing and design services are not included in the HazMat removal costs



PSR Design Options Wakefield, MA

**PSR Estimate** 

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
OPTION C3 NEW BUILDING - 1660 STUDEN	NTS			
	Apr-23			
NEW BUILDING		384,327	\$357.92	\$137,558,320
DEMOLISH EXISTING BUILDINGS		234,468	\$8.00	\$1,875,744
MAINTENANCE BUILDING - PRE-ENGINEERED		1,800	\$180.00	\$324,000
ATHLETIC SUPPORT/FIELD MAINTENANCE		7,200	\$400.00	\$2,880,000
CONCESSIONS/RESTROOM		1,600	\$400.00	\$640,000
SITEWORK				\$31,599,783
REMOVE HAZARDOUS MATERIALS (CDW Consultants, Inc. 4/14/20) <sup>1</sup>				\$1,919,675
SUB-TOTAL		393,327	\$449.49	\$176,797,522
ESCALATION TO MID-POINT, 3% Per annum	7.5%			\$13,259,814
DESIGN AND PRICING CONTINGENCY	15%			\$26,519,628
SUB-TOTAL		393,327	\$550.63	\$216,576,964
GENERAL CONDITIONS	28	MTHS	\$240,000	\$6,720,000
GENERAL CONDITIONS - EARLY ROCK OPERATION	8	MTHS	\$75,000	\$600,000
GENERAL REQUIREMENTS	4.00%			\$8,663,079
BONDS	1.25%			\$2,707,212
INSURANCE	1.40%			\$3,032,077
BUILDING PERMIT				By Owner
MODULARS				NR
CM FEE	2.5%			\$5,957,483
GMP CONTINGENCY	2.0%			\$4,885,136
TOTAL OF ALL CONSTRUCTION		393,327	\$633.42	\$249,141,9 <u>5</u> 1

<sup>&</sup>lt;sup>1</sup>Testing and design services are not included in the HazMat removal costs



PSR Design Options Wakefield, MA

**PSR Estimate** 

	Construction Start	on Gross Floor Arc	\$/sf ea	Estimated Construction Cost
OPTION C3 NEW BUILDING - 1722 STUDEN	ITS			
	Apr-23			
NEW BUILDING		394,554	\$357.92	\$141,218,768
DEMOLISH EXISTING BUILDINGS		234,468	\$8.00	\$1,875,744
MAINTENANCE BUILDING - PRE-ENGINEERED		1,800	\$180.00	\$324,000
ATHLETIC SUPPORT/FIELD MAINTENANCE		7,200	\$400.00	\$2,880,000
CONCESSIONS/RESTROOM		1,600	\$400.00	\$640,000
SITEWORK				\$31,599,783
REMOVE HAZARDOUS MATERIALS (CDW Consultants, Inc. 4/14/20) 1				\$1,919,675
SUB-TOTAL		403,554	\$447.17	\$180,457,970
ESCALATION TO MID-POINT, 3% Per annum	7.5%			\$13,534,348
DESIGN AND PRICING CONTINGENCY	15%			\$27,068,696
SUB-TOTAL		403,554	\$547.79	\$221,061,014
GENERAL CONDITIONS		28 MTHS	\$240,000	\$6,720,000
GENERAL CONDITIONS - EARLY ROCK OPERATION		8 MTHS	\$75,000	\$600,000
GENERAL REQUIREMENTS	4.00%			\$8,842,441
BONDS	1.25%			\$2,763,263
INSURANCE	1.40%			\$3,094,854
BUILDING PERMIT				By Owner
MODULARS				NR
CM FEE	2.5%			\$6,077,039
GMP CONTINGENCY	2.0%			\$4,983,172
TOTAL OF ALL CONSTRUCTION		403,554	\$629.76	\$254,141,783

<sup>&</sup>lt;sup>1</sup>Testing and design services are not included in the HazMat removal costs



PSR Design Options Wakefield, MA

**PSR Estimate** GFA 363,974 GFA 389,998 GFA 380,853 GFA 380,853 GFA 373,653

	CONSTRU	CTION COST SU	MMAR	RY							
		OPTION B2 - 1600 S	Students	OPTION B2 - 1722 S	tudents	OPTION C1 - 1600 S	Students	OPTION C2 - 1600	Students	OPTION C3 - 1600 S	tudents
	BUILDING SYSTEM	SUB-TOTAL	\$/SF	SUB-TOTAL	\$/SF	SUB-TOTAL	\$/SF	SUB-TOTAL	\$/SF	SUB-TOTAL	\$/SF
ALL	OPTIONS UNIFORMAT SUMMARY										
A10											
	A1010 Standard Foundations	\$1,732,392	\$4.76	\$1,887,741	\$4.84	\$5,580,707	\$14.65	\$5,133,119	\$13.48	\$3,396,260	\$9.09
	A1020 Special Foundations A1030 Lowest Floor	\$0 \$3,058,712	\$0.00 \$8.40	\$0 \$0.146.605	\$0.00 \$8.07	\$0 \$3,908,938	\$0.00 \$10.26	\$0 \$5,093,823	\$0.00	\$0 \$5,886,586	\$0.00
	A1030 Lowest Floor	\$3,056,712	<b>\$6.40</b>	\$3,146,635	\$6.07	\$3,900,930	\$10.20	\$5,093,623	\$13.37	\$5,000,500	\$15.75
A20											
	A2010 Basement Excavation	\$o	\$0.00	\$o	\$0.00	\$o	\$0.00	\$o	\$0.00	\$o	\$0.00
	A2020 Basement Walls	\$o	\$0.00	\$o	\$0.00	\$o	\$0.00	\$o	\$0.00	\$o	\$0.00
B10	SUPERSTRUCTURE										
	B1010 Upper Floor	\$5,151,038	\$14.15	\$5,966,093	\$15.30	\$11,852,882	\$31.12	\$9,474,445	\$24.88	\$11,345,570	\$30.36
	B1020 Roof Construction	\$2,330,854	\$6.40	\$2,794,200	\$7.16	\$6,703,449	\$17.60	\$8,340,370	\$21.90	\$6,541,436	\$17.51
B20	EXTERIOR CLOSURE										
	B2010 Exterior Walls	\$7,961,703	\$21.87	\$8,781,919	\$22.52	\$11,728,475	\$30.80	\$10,509,098	\$27.59	\$9,775,134	\$26.16
	B2020 Windows	\$4,095,826	\$11.25	\$4,951,928	\$12.70	\$6,059,309	\$15.91	\$5,700,150	\$14.97	\$5,020,119	\$13.44
	B2030 Exterior Doors	\$387,400	\$1.06	\$378,160	\$0.97	\$274,320	\$0.72	\$274,320	\$0.72	\$274,320	\$0.73
Взо	ROOFING										
_	B3010 Roof Coverings	\$7,278,083	\$20.00	\$8,102,123	\$20.77	\$5,705,448	\$14.98	\$5,962,200	\$15.65	\$5,171,843	\$13.84
	B3020 Roof Openings	\$12,500	\$0.03	\$12,500	\$0.03	\$941,000	\$2.47	\$941,000	\$2.47	\$941,000	\$2.52
C10	INTERIOR CONSTRUCTION										
	C1010 Partitions	\$8,241,552	\$22.64	\$9,131,920	\$23.42	\$12,187,296	\$32.00	\$12,187,296	\$32.00	\$11,956,896	\$32.00
	C1020 Interior Doors	\$2,173,044	\$5.97	\$2,339,988	\$6.00	\$2,285,118	\$6.00	\$2,285,118	\$6.00	\$2,241,918	\$6.00
	C1030 Specialties/Millwork	\$2,716,305	\$7.46	\$2,924,985	\$7.50	\$2,856,398	\$7.50	\$2,856,398	\$7.50	\$2,802,398	\$7.50
C20											
	C2010 Stair Construction	\$365,000	\$1.00	\$505,000	\$1.29	\$440,000	\$1.16	\$530,000	\$1.39	\$460,000	\$1.23
	C2020 Stair Finishes	\$139,600	\$0.38	\$196,900	\$0.50	\$139,600	\$0.37	\$187,700	\$0.49	\$120,500	\$0.32
Сзо											
	C3010 Wall Finishes	\$4,346,088	\$11.94	\$4,679,976	\$12.00	\$4,570,236	\$12.00	\$4,570,236	\$12.00	\$4,483,836	\$12.00
	C3020 Floor Finishes	\$4,147,194	\$11.39	\$4,505,227	\$11.55	\$3,760,621	\$9.87	\$3,326,244	\$8.73	\$3,430,126	\$9.18
	C3030 Ceiling Finishes	\$1,943,044	\$5.34	\$2,109,988	\$5.41	\$5,088,344	\$13.36	\$3,108,146	\$8.16	\$3,205,841	\$8.58



PSR Design Options Wakefield, MA

**PSR Estimate** GFA 363.974 GFA 389.998 GFA 380.853 GFA 380.853 GFA 373.653

ISKESU	······································	GIA	303,9/4	GFA	309,990	o Gra	360,05	) Gra	300,05	3 GFA	3/3,033
	CONSTRUC	CTION COST SU	MMAR	Y							
		OPTION B2 - 1600 S	Students	OPTION B2 - 1722 S	tudents	OPTION C1 - 1600 S	Students	OPTION C2 - 1600	Students	OPTION C3 - 1600 S	Students
	BUILDING SYSTEM	SUB-TOTAL	\$/SF	SUB-TOTAL	\$/SF	SUB-TOTAL	\$/SF	SUB-TOTAL	\$/SF	SUB-TOTAL	\$/SF
ALL	OPTIONS UNIFORMAT SUMMARY										
D10	CONVEYING SYSTEMS D1010 Elevator	\$670,000	\$1.84	\$550,000	\$1.41	\$780,000	\$2.05	\$480,000	\$1.26	\$600,000	\$1.61
D20	PLUMBING D20 Plumbing	\$7,181,965	\$19.73	\$7,724,533	\$19.81	\$7,426,634	\$19.50	\$7,426,634	\$19.50	\$7,286,234	\$19.50
D30	HVAC D30 HVAC	\$23,295,250	\$64.00	\$25,048,162	\$64.23	\$23,612,886	\$62.00	\$23,612,886	\$62.00	\$23,166,486	\$62.00
D40	FIRE PROTECTION D40 Fire Protection	\$2,533,489	\$6.96	\$2,714,345	\$6.96	\$2,475,545	\$6.50	\$2,475,545	\$6.50	\$2,428,745	\$6.50
D50	ELECTRICAL D5040 Electrical Systems	\$19,034,107	\$52.30	\$20,063,595	\$51.45	\$19,105,235	\$50.16	\$19,105,235	\$50.16	\$18,846,035	\$50.44
E10	EQUIPMENT E10 Equipment	\$2,558,500	\$7.03	\$2,558,500	\$6.56	\$2,558,500	\$6.72	\$2,558,500	\$6.72	\$2,558,500	\$6.85
E20	FURNISHINGS E2010 Fixed Furnishings	\$1,770,754	\$4.87	\$1,823,856	\$4.68	\$1,859,728	\$4.88	\$1,838,385	\$4.83	\$1,797,974	\$4.81
F20	HAZMAT REMOVALS F2010 Interior Demo F2020 Hazardous Abatement	\$3,953,625 \$0	\$10.86	\$3,953,625 \$0	\$10.14	\$0 \$0		\$0 \$0		\$0 \$0	
TOTA	AL DIRECT COST (Trade Costs)	\$117,078,025	\$321.67	\$126,851,899	\$325.26	\$141,900,669	\$372.59	\$137,976,848	\$362.28	\$133,737,757	\$357.92



PSR Design Options Wakefield, MA

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**PSR Estimate GFA** 239,144

			UNIT	EST'D	SUB	TOTAL
DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

OPTION B.2 1600 STUDENTS - RENOVATION

GROSS FLOOR AREA CALCULATION

Basement Level 30,979 Ground Floor 195,261 Second Floor 12,904

TOTAL GROSS FLOOR AREA (GFA)

239,144 sf

A10 FOUNDATIONS

A1010 STANDARD FOUNDATIONS

Allowance for miscellaneous foundation work; includes 300,000.00 300,000 adding foundations for bracing

SUBTOTAL 300,000

A1020 SPECIAL FOUNDATIONS

No work in this section

SUBTOTAL

A1030 LOWEST FLOOR CONSTRUCTION

Cut and patch SOG for new shear wall foundations 3,750 sf 50.00 187,500 Repair slab cracks 1s 50,000.00 50,000 30,000.00 New equipment pads ls 30,000 1 Slab trenching and replacement at MEP work 195,261 sf 2.00 390,522 Infill existing pool with geofoam, SOG 3,200 sf 40.00 128,000 Premium for stepped auditorium seating/stage/ramps 7,000 sf 50.00 350,000 Allow for floor levelling - LGMF 20,000 sf 30.00 600,000

SUBTOTAL 1,736,022

TOTAL - FOUNDATIONS

\$2,036,022

SUPERSTRUCTURE

B1010 FLOOR CONSTRUCTION

New shear walls 14,000 sf 40.00 560,000 Clip all existing masonry walls to structure gsf 239,144 6.00 1,434,864

SUBTOTAL 1,994,864

**B1020 ROOF CONSTRUCTION** 

Reinforce existing roof for new HVAC equipment 20 tn 5,000.00 100,000 Snow loading, allow 10 tn 5,000.00 50,000

SUBTOTAL 150,000

TOTAL - SUPERSTRUCTURE \$2,144,864

R20 EXTERIOR CLOSURE

> B2010 EXTERIOR WALLS sf 61,070 Exterior Wall Area - Solid 43,950 sf

042000 MASONRY

Clean all masonry/concrete 43,950 sf 8.00 351,600 Repoint existing brick - 100% 37,700 sf 38.00 1,432,600 Staging to exterior wall 61,070 sf 4.00 244,280

Northeast MetroTech PSR 12.2.20 Page 26 PMC - Project Management Cost



PSR Design Options

Wakefield, MA

PSR Estimate GFA 239,144

	D. COON PROVIDENCE -	0.77		UNIT	EST'D	SUB	TOTA
	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	cos
	OOO STUDENTS - RENOVATION						
070001	WATERPROOFING, DAMPPROOFING AND CAULKING		c		TIMD		
	Air barrier	43,950	sf	7.00	ETR		
	Air barrier/flashing at windows	7,384	lf	6.25	46,150		
072100	THERMAL INSULATION						
-,	Insulation; 5" spray foam	43,950	sf	5.00	219,750		
	, 0	10,50		0	<i>3,,,</i> 0 -		
076400	CLADDING						
	Roof equipment screen - allow				w/ addition		
092900	GYPSUM BOARD ASSEMBLIES						
	Interior face of wall						
	Metal stud, 3-5/8"	43,950	sf	5.00	219,750		
	ARGWB lining to interior face of stud backup	43,950	sf	4.00	175,800		
	SUBTOTAL	10/20			, 0,	2,689,930	
						, ,,,,,	
B2020	WINDOWS/CURTAINWALL						
	Exterior Wall Area - Glazed	17,120	sf				
061000	ROUGH CARPENTRY						
	Wood blocking at openings	7,384	lf	12.00	88,608		
070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
0,0001	Backer rod & double sealant	7,384	lf	9.00	66,456		
	Bucker 10d & double bemant	/,304	11	9.00	00,430		
080001	METAL WINDOWS						
	Curtainwall, double glazed	1,280	sf	120.00	153,600		
	Storefront, double glazed	6,870	sf	95.00	652,650		
	Kalwall	8,970	sf	70.00	627,900		
	Premium for operable openings	272	ea	400.00	108,800		
	SUBTOTAL					1,698,014	
B2030	EXTERIOR DOORS						
	Glazed entrance doors including frame and hardware; double door	16	pr	9,000.00	144,000		
	Glazed entrance doors including frame and hardware; single	1	ea	4,500.00	4,500		
	door						
	HM doors, frames and hardware- Double	5	ea	3,800.00	19,000		
	HM doors, frames and hardware- single	15	ea	1,900.00	28,500		
	Overhead doors	8	ea	12,000.00	96,000		
	SUBTOTAL					292,000	
	TOTAL - EXTERIOR CLOSURE						\$4,6

<i>B30</i>	ROOFING					
B3010	ROOF COVERINGS					
	PVC membrane system	195,261	sf	22.00	4,295,742	
	Roof edge at membrane roofing	4,490	lf	50.00	224,500	
	Fascia at high roof, 24'	1,080	sf	80.00	86,400	
	Miscellaneous flashings, accessories etc.	195,261	sf	1.25	244,076	
	Perimeter blocking and sealants	195,261	sf	1.50	292,892	
	Allowance for soffits/ overhangs	195,261	sf	3.00	585,783	
	SUBTOTAL					5,729,393

Northeast MetroTech PSR 12.2.20 Page 27 PMC - Project Management Cost



PSR Design Options

Wakefield, MA

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PSR Estimate GFA 239,144

02-Dec-20

			UNIT	EST'D	SUB	TOTAL
DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

### OPTION B.2 1600 STUDENTS - RENOVATION

#### B3020 ROOF OPENINGS

No work in this section

SUBTOTAL -

TOTAL - ROOFING \$5,729,393

### C10 INTERIOR CONSTRUCTION

### C1010 PARTITIONS

Allowance to modify existing walls and add new walls where 239,144 gsf 18.00 4,304,592 required

SUBTOTAL 4,304,592

#### C1020 INTERIOR DOORS

New doors, frames and hardware **239,144** sf 6.00 1,434,864

SUBTOTAL 1,434,864

#### C1030 SPECIALTIES / MILLWORK

Specialties **239,144** gsf 7.50 1,793,580

SUBTOTAL 1,793,580

### TOTAL - INTERIOR CONSTRUCTION \$7,533,036

### C20 STAIRCASES

#### C2010 STAIR CONSTRUCTION

 New stairs
 1
 flt
 35,000.00
 35,000

 Allowance for ADA compliant railings
 5
 flt
 10,000.00
 50,000

SUBTOTAL 85,000

#### C2020 STAIR FINISHES

Allowance for new stair finishes 5 flt 5,000.00 25,000

SUBTOTAL 25,000

### TOTAL - STAIRCASES \$110,000

### C30 INTERIOR FINISHES

### C3010 WALL FINISHES

 Painting/new wall finishes throughout
 239,144
 gsf
 12.00
 2,869,728

 SUBTOTAL
 2,869,728

#### C3020 FLOOR FINISHES

Allowance to prep floors for new finishes 239,144 sf3.00 717,432 Carpet sf 7,665 5.50 42,158 Rubber tile sf 34,255 12.00 411,060 Linoleum tile sf 81,670 6.00 490,020 Clean and seal concrete 54,250 sf 4.00 217,000 Ceramic tile 11,490 sf 24.00 275,760 Athletic performance wood 8,220 sf 18.00 147,960 Vented base 360 lf 8.00 2,880 Wood sprung floor 1,800 sf 22.00 39,600 Terrazzo tile, 24" x 24" 1,090 sf36.00 39,240 Refinish wood stage 1,800 sf 8.00 14,400 Epoxy paint 12,990 sf2.50 32,475 Resilient base ls 30,000.00 30,000 1

SUBTOTAL 2,459,985



PSR Design Options

Wakefield, MA

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Branch devices and circuitry

Fire alarm including BDA

PSR Estimate GFA 239,144

02-Dec-20

1				UNIT	EST'D	SUB	TOTAL
	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
ON B.2 16	500 STUDENTS - RENOVATION						
C3030	CEILING FINISHES						
0 0	ACT, 2 x 2	169,144	sf	6.00	1,014,864		
	Painted structure	70,000	sf	2.00	140,000		
	SUBTOTAL					1,154,864	
	TOTAL INTERIOR EINICHEC						<b>AC 10</b>
	TOTAL - INTERIOR FINISHES						\$6,48
D10	CONVEYING SYSTEMS						
	New lift	1	ls	30,000.00	30,000		
	Remove and replace elevator, 3 stop	2	ea	180,000.00	360,000		
	Premium for existing building	1	ls	100,000.00	100,000		
	SUBTOTAL					490,000	
	TOTAL - CONVEYING SYSTEMS						\$490
Doo	PLUMBING						
D20	PLUMBING						
D20	PLUMBING, GENERALLY						
	New service entrance, new equipment, fixtures and piping. Phase construction and temporary conditions	239,144	sf	20.00	4,782,880		
	SUBTOTAL					4,782,880	
	TOTAL - PLUMBING						\$4,782
D30	HVAC						
230	1,110						
D30	HVAC, GENERALLY						
	HVAC primarily all electric, air source heat pumps, VRF, and gas fired hot water boiler to pre-heat RTU's. Phased construction and temporary conditions	239,144	sf	65.00	15,544,360		
	SUBTOTAL					15,544,360	
	TOTAL - HVAC						\$15,544
D40	FIRE PROTECTION						
D40	FIRE PROTECTION, GENERALLY						
	Install new service loop, fire pump, partial demoliton, phased	239,144	sf	7.25	1,733,794		
	construction, temporary conditions and branch FP distribution						
	SUBTOTAL					1,733,794	
	TOTAL - FIRE PROTECTION						\$1,73
D50	ELECTRICAL						
D50		239.144	sf	5.00	1,105.720		
D50	Normal power service & distribution 5000A	239,144 239,144	sf sf	5.00 3.50	1,195,720 837,004		
D50	Normal power service & distribution 5000A Generator gear and distribution 600KW	239,144 239,144	sf sf	5.00 3.50	1,195,720 837,004		
<i>D50</i>	Normal power service & distribution 5000A						

239,144

239,144

sf

 $\mathbf{sf}$ 

3.50

3.50

837,004

837,004



PSR Design Options Wakefield, MA

PSR Estimate GFA 239,144

02-Dec-20

			UNIT	EST'D	SUB	TOTAL
DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
TION B.2 1600 STUDENTS - RENOVATION						
Technology system	239,144	sf	2.00	478,288		
Theater lighting systems	1	ls	200,000.00	200,000		
Security system	239,144	sf	1.00	239,144		
Miscellaneous electrical	239,144	sf	4.00	956,576		
Demolition and phased construction	239,144	sf	2.00	478,288		
SUBTOTAL					9,287,472	
Communications cabling and equipment allowance provided	1	ls	1,739,625.00	1,739,625		
A/V cabling allowance provided	1	ls	104,000.00	104,000		
IPTV and video pn demand allowance provided	1	ls	360,000.00	360,000		
Gym A/V allowance provided	1	ls	128,000.00	128,000		
Auditorium/stage A/V allowance provided	1	ls	148,000.00	148,000		
Cafeteria/Stage A/V allowance provided	1	ls	148,000.00	148,000		
Fitness Center A/V allowance provided	1	ls	15,500.00	15,500		
Weights A/V allowance provided	1	ls	15,500.00	15,500		
Speech Reinforcement allowance provided	1	ls	244,200.00	244,200		
Instructional A/V allowance provided	1	ls	650,000.00	650,000		
PA System allowance provided	1	ls	218,200.00	218,200		
Clock System allowance provided	1	ls	126,300.00	126,300		
SUBTOTAL					3,897,325	
Security system allowance provided	1	ls	1,297,200.00	1,297,200		
SUBTOTAL					1,297,200	
TOTAL - ELECTRICAL						\$14,481,

E10	EQUIPMENT, GENERALLY						
	Tavares Design, 10.30.2020						
	Food service equipment	1	ls	825,000.00	825,000		
	Basketball backstops	1	ls	27,000.00	27,000		
	Stage curtains and rigging	1	ls	650,000.00	650,000		
	Divider curtains	1	ls	32,000.00	32,000		
	Gym wall padding	1	ls	25,000.00	25,000		
	Telescoping bleachers	1	ls	215,000.00	215,000		
	Automotive refinishing - Booths/Frame Machine	1	ls	325,000.00	325,000		
	Automotive Tech - lifts	1	ls	160,000.00	160,000		
	HVAC/Plumbing - Boilers/Furnaces/Split systems	1	ls	65,000.00	65,000		
	Cosmetology - Wet stations/Manicure/Styling	1	ls	110,000.00	110,000		
	SUBTOTAL					2,434,000	
	Gymnasium dividing net; electrically operated	1	ls	30,000.00	30,000		
	Volleyball net and standards	1	ls	5,000.00	5,000		
	Wrestling mat lifter	1	ls	12,000.00	12,000		
	Scoreboards and shot clock	1	ls	25,000.00	25,000		
	Ceiling mounted batting cage	1	ls	2,500.00	2,500		
	Culinary equipment - assume part of Food Service above				incl		
	Residential appliances	1	ls	50,000.00	50,000		
	Electrically operated projection screens				w/ AV		
	SUBTOTAL					124,500	

Northeast MetroTech PSR 12.2.20 Page 30 PMC - Project Management Cost



PSR Design Options

Wakefield, MA

**PSR Estimate** GFA 239,144

			UNIT	EST'D	SUB	TOTAL
DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

CASEWORK

E2010 FIXED FURNISHINGS

Counters, base cabinets, tall storage in classrooms and other incl

rooms - see ADD

123553

Entry mats & frames 200 sf 55.00 11,000 Window blinds sf 17,120 7.00 119,840

Auditorium seating 310.00 seats 232,500 **750** 

SUBTOTAL 363,340

E2020 MOVABLE FURNISHINGS

All movable furnishings to be provided and installed by

SUBTOTAL NIC

TOTAL - FURNISHINGS \$363,340

SPECIAL CONSTRUCTION F10

SPECIAL CONSTRUCTION F10

No work in this section

SUBTOTAL

TOTAL - SPECIAL CONSTRUCTION

SELECTIVE BUILDING DEMOLITION

F2010 BUILDING ELEMENTS DEMOLITION

Slab trenching and replacement at MEP work and shear wall 3,750 15.00 56,250 footings Exterior closure demolition at connections to new additions 1 ls 100,000.00 100,000 sf

Remove existing roofing 195,261 3.00 585,783 Interior demolition including removal of cut & capped MEP 239,144 gsf 8.00 1,913,152 equipment and fixtures

Temporary enclosures/protection 239,144 sf 5.00 1,195,720 Remove exterior glazing 17,120 sf 6.00 102,720

SUBTOTAL 3,953,625

F2020 HAZARDOUS COMPONENTS ABATEMENT

See summary SUBTOTAL

TOTAL - SELECTIVE BUILDING DEMOLITION

SUBTOTAL OPTION B2 RENOVATION 1600 Enrollment

\$72,626,332

\$3,953,625

Northeast MetroTech PSR 12.2.20 Page 31 PMC - Project Management Cost

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OPTION B.2 1600 STUDENTS - RENOVATION **FURNISHINGS** E20

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Northeast Metropolitan Regional Vocational High School PSR Design Options Wakefield, MA

PSR Estimate GFA 123,030

			UNIT	EST'D	SUB	TOTAL
DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

OPTION B.2 1600 STUDENTS - ADDITION

GROSS FLOOR AREA CALCULATION

	First Floor Second Floor Third Floor			47,560 37,663 37,807		
	TOTAL GROSS FLOOR AREA (GFA)				123,030 sf	
A10	FOUNDATIONS					
	STANDARD FOUNDATIONS					
033000	CONCRETE					
	Strip Footings	231	CY			
	Foundation Walls	410	CY			
	Spread Footings	614	CY			
	Piers	64	CY			
	Total Foundation Concrete	1,319	CY			
	Strip footings Formwork	0.060	a <b>f</b>	14.00	55.440	
	Re-bar	3,960 19,800	sf lbs.	14.00	55,440	
	Concrete material			1.40	27,720	
	Placing concrete	231 231	cy cy	130.00 100.00	30,030 23,100	
	Foundation walls	231	Cy	100.00	23,100	
	Formwork	15,840	sf	20.00	316,800	
	Re-bar	31,680	lbs.	1.40	44,352	
	Concrete material	410	cy	130.00	53,300	
	Placing concrete	410	cy	140.00	57,400	
	Form shelf	1,980	lf	10.00	19,800	
	Spread Footings; 11' x 11' x 2'					
	Formwork	2,464	sf	16.00	39,424	
	Re-bar	42,240	lbs.	1.40	59,136	
	Concrete material	264	cy	130.00	34,320	
	Placing concrete	264	cy	160.00	42,240	
	Set anchor bolts grout plates	28	ea	150.00	4,200	
	Spread Footings; 10' x 10' x 2'					
	Formwork	3,600	sf	16.00	57,600	
	Re-bar	56,000	lbs.	1.40	78,400	
	Concrete material	350	cy	130.00	45,500	
	Placing concrete	350	cy	160.00	56,000	
	Set anchor bolts grout plates Spread Footings; 8' x 8' x 2'	45	ea	150.00	6,750	
	Formwork	1,920	sf	16.00	30,720	
	Re-bar	23,840	lbs.	1.40	33,376	
	Concrete material	149	cy	130.00	19,370	
	Placing concrete	149	cy	160.00	23,840	
	Set anchor bolts grout plates	30	ea	150.00	4,500	
	Piers/Pilasters	-		-		
	Formwork	2,472	sf	22.00	54,384	
	Re-bar	16,000	lbs	1.40	22,400	
	Concrete material	64	cy	130.00	8,320	
	Placing concrete	64	cy	160.00	10,240	
	Thickened slab at interior load bearing walls	111	cy	350.00	38,850	
070001	WATERPROOFING, DAMPPROOFING AND CAULKING					
	Dampproofing at brick shelf	7,920	sf	3.00	NR	
072100	THERMAL INSULATION					
	Insulation	7,920	sf	3.00	23,760	
212000	FAPTHWOPV					
312000	EARTHWORK					

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PMC - Project Management Cost



PSR Design Options Wakefield, MA

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PSR Estimate GFA 123,030

02-Dec-20

				UNIT	EST'D	SUB	TOTAL	İ
	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST	ĺ

### OPTION B.2 1600 STUDENTS - ADDITION

Strip footings

Excavation w/ lowest slab
Remove off site w/ lowest slab

Backfill with selected material w/ lowest slab

Spread footings

Excavation w/ lowest slab
Remove off site w/ lowest slab

Backfill with selected material w/ lowest slab

Miscellaneous

Gravel fill beneath footings, 12" w/ lowest slab
Perimeter drain 1,980 lf 22.00 43,560
Underslab drainage and waterproofing system Not yet determined

 Underslab E&B for plumbing
 47,560
 sf
 1.00
 47,560

 Dewatering for foundation work
 1
 ls
 20,000.00
 20,000

SUBTOTAL 1,432,392

#### A1020 SPECIAL FOUNDATIONS

No work in this section SUBTOTAL

#### A1030 LOWEST FLOOR CONSTRUCTION

111000	EOWEDITE OF CONSTRUCTION				
	Drilling/matting/blasting				
	At building addition footprint; includes no credit for selling processed rock	10,969	cy	45.00	493,605
	At parking garage footprint; includes no credit for selling processed rock; allowance	19,815	cy	45.00	w/ site
	Trench; for utility lines	1,500	cy	65.00	w/ site
	Rock excavation/hauling to stockpile location	10,969	cy	7.00	76,783
	Process and stockpile for reuse on site x1.65 (2" minus)	3,016	tns	7.00	w/ site
	Process and stockpile for reuse within building footprints incl. 12" of structural below SOG x1.65 (2" minus)	15,083	tns	7.00	105,581
	Pre split face; for exposed rock slopes; allowance	5,000	sf	9.78	w/ site
	Building Earthwork				
	Fill below footprint to make up level- reuse processed rock	9,141	cy	12.00	109,692
	New Slab on grade, 5" thick	47,560	sf		
	Rigid insulation, underslab	47,560	sf	2.25	107,010
	Vapor barrier	47,560	sf	1.00	47,560
	Compact existing sub-grade	47,560	sf	0.50	23,780
	Mesh reinforcing 15% lap	54,694	sf	1.10	60,163
	Concrete - 5" thick; 4,000 psi	777	cy	135.00	104,895
	Placing concrete	777	cy	45.00	34,965
	Finishing and curing concrete	47,560	sf	2.50	118,900
	Control joints - saw cut	47,560	sf	0.10	4,756
	Miscellaneous				

TOTAL - FOUNDATIONS \$2,755,082

35,000.00

35,000

1,322,690

ea

### A20 BASEMENT CONSTRUCTION

Elevator pit, 24" mat foundation w/ 12" concrete wall

### A2010 BASEMENT EXCAVATION

No Work in this section

SUBTOTAL

SUBTOTAL

#### A2020 BASEMENT WALLS

No Work in this section

SUBTOTAL



PSR Design Options Wakefield, MA

PSR Estimate GFA 123,030

			UNIT	EST'D	SUB	TOTAL
DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

### OPTION B.2 1600 STUDENTS - ADDITION

### TOTAL - BASEMENT CONSTRUCTION

B10	SUPERSTRUCTURE					
_		14.53	lbs/sf			
1010	FLOOR CONSTRUCTION	894	tns			
	Floor Structure - Steel:	0		- 0	(	
	Steel beams and columns, 14#/SF Shear studs	528	tns	3,800.00	2,006,400	
		15,094	ea	2.50	37,735	
	Floor Structure					
	3", 18ga Metal galvanized floor Deck	75,470	sf	4.00	301,880	
	WWF reinforcement	86,791	sf	1.10	95,470	
	Concrete fill to metal deck; total depth 5-1/4" light weight	1,284	cy	175.00	224,700	
	Place and finish concrete	75,470	sf	3.00	226,410	
	Rebar to decks	22,641	lbs	1.20	27,169	
	Misc. angles	75,470	sf	0.50	37,735	
	Miscellaneous					
	Fire proofing to columns and beams	75,470	sf	2.50	188,675	
	Fire stopping floors	1	ls	10,000.00	10,000	
	SUBTOTAL					3,156,174
1020	ROOF CONSTRUCTION					
	Roof Structure - Steel:					
	Steel beams and columns at roof, 14#/SF	366	tns	3,800.00	1,390,800	
	Roof Structure					
	3" 20 Ga. galvanized metal roof deck	52,316	sf	3.50	183,106	
	Miscellaneous					
	Roof screen support	80	tns	5,000.00	400,000	
	Concrete at mechanical equipment	5,000	sf	10.00	50,000	
	Intumescent paint			N		
	Fire proofing to columns, beams and deck	52,316	sf	3.00	156,948	
	SUBTOTAL					2,180,854

# TOTAL - SUPERSTRUCTURE \$5,337,028

B20	EXTERIOR CLOSURE				
B2010	EXTERIOR WALLS Exterior Wall Area	60,676	sf sf		
	Exterior Wall Area	42,473	SI		
042000	MASONRY				
	CMU veneer - large format, Arriscraft	6,068	sf	48.00	291,264
	CMU back up	6,068	sf	30.00	182,040
	Staging/Lifts to exterior wall	42,473	sf	4.00	169,892
055000	MISC. METALS				
	Sign at main entrance	1	ls	10,000.00	10,000
	Misc. metals at masonry	12,136	sf	1.50	18,204
070001	WATERPROOFING, DAMPPROOFING AND CAULKING				
	Air barrier	42,473	sf	7.50	318,548
	Air barrier/flashing at windows	10,707	lf	6.25	66,919
	Miscellaneous sealants to closure	42,473	sf	1.00	42,473
072100	THERMAL INSULATION				
	Insulation	42,473	sf	3.50	148,656

PMC - Project Management Cost



Northeast Metropolitan Regional Vocational High School PSR Design Options Wakefield, MA

PSR Estimate GFA 123,030

		DESCRIPTION	QTY	UNIT	UNIT	EST'D COST	SUB TOTAL	TOTAL
L	ODTION P - · ·		411	0.1111	2001	2031	TOTAL	2001
177	OP11ON B.2 160	00 STUDENTS - ADDITION						
178	076400	CLADDING						
179		Metal panel	14,562	sf	75.00	1,092,150		
180		High performance concrete panel	21,843	sf	90.00	1,965,870		
181		Soffit at overhang, including framing				NIC		
182		Roof equipment screen - allow	10,000	sf	70.00	700,000		
183 184	092900	GYPSUM BOARD ASSEMBLIES						
185	092900	6" CFMF backup	14,562	sf	12.00	174,744		
186		Gypsum Sheathing	14,562	sf	2.75	40,046		
187		Drywall lining to interior face of stud backup	14,562	sf	3.50	50,967		
188			-4,0 -		5.5*	3-,,-,		
189		SUBTOTAL					5,271,773	
190 191	B2020	WINDOWS						
192	22020	Exterior Glazed Area	18,202	sf				
193		DOLIGIT OF BRIDATION						
194	061000	ROUGH CARPENTRY		10		:-0 0		
195		Wood blocking at openings	10,707	lf	12.00	128,484		
197	070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
198		Backer rod & double sealant	10,707	lf	9.00	96,363		
199 200	080001	METAL WINDOWS						
201	000001	Curtainwall, double glazed	0.101	sf	120.00	1 000 100		
202		Storefront, double glazed	9,101 9,101	sf	95.00	1,092,120 864,595		
203		Sunshades; allow	9,101	ls	200,000.00	200,000		
204			•	20	_00,000.00	200,000		
205	084500	INSULATED TRANSLUCENT PANELS						
206		Translucent wall panels				NR		
207 208	089000	LOUVERS						
209		Louvers	250	sf	65.00	16,250		
210		SUBTOTAL	-		-		2,397,812	
211	-	EVERYOR DOORG						
212 213	B2030	<b>EXTERIOR DOORS</b> Glazed entrance doors including frame and hardware; double	8	pr	9,000.00	72,000		
		door		-	**	, ,		
214		Glazed entrance doors including frame and hardware; single	2	ea	4,500.00	9,000		
215		door Overhead doors		49	12,000.00	12,000		
216		Backer rod & double sealant	200	ea lf	9.00	1,800		
217		Wood blocking at openings	200	lf	3.00	600		
218		SUBTOTAL	_00		5.50	230	95,400	
219								
220 221		TOTAL - EXTERIOR CLOSURE						\$7,764,985
222			_					
223	B30	ROOFING	j					
224 225	B2010	ROOF COVERINGS						
226	23010	PVC membrane system	52,316	sf	22.00	1,150,952		
227		Roof edge at membrane roofing	2,200	lf	50.00	110,000		
228		Miscellaneous flashings, accessories etc.	52,316	sf	1.00	52,316		
229		Perimeter blocking and sealants	52,316	sf	1.50	78,474		
230		Allowance for soffits/ overhangs	52,316	sf	3.00	156,948		
231 232		SUBTOTAL					1,548,690	
233	B3020	ROOF OPENINGS						
234		Skylights, allow	1	ls	10,000.00	10,000		
235		Roof hatch	1	loc	2,500.00	2,500		
236		SUBTOTAL					12,500	



PSR Design Options Wakefield, MA

 PSR Estimate GFA 123,030

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\$3,951,749

			UNIT	EST'D	SUB	TOTAL
DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

# OPTI

В.2 10	00 STUDENTS - ADDITION						
	TOTAL - ROOFING						\$1,561,19
C10	INTERIOR CONSTRUCTION						
C1010	PARTITIONS						
01010	Miscellaneous partitions - glazing, CMU, GWB assemblies, etc.	123,030	gsf	32.00	3,936,960		
	SUBTOTAL	123,030	gsi	32.00	3,930,900	2 026 060	
	SOBIOTAL					3,936,960	
C1020	INTERIOR DOORS						
	Doors; complete	123,030	gsf	6.00	738,180		
	SUBTOTAL					738,180	
C1030	SPECIALTIES / MILLWORK						
	Specialties	123,030	gsf	7.50	922,725		
	SUBTOTAL	٠, ٠				922,725	
						, ,, 0	
	TOTAL - INTERIOR CONSTRUCTION						\$5,597,86
C20	STAIRCASES	7					
		<u>_</u>					
C2010	STAIR CONSTRUCTION	_	a.				
	Feature stairs, 1-3	2	flt	60,000.00	120,000		
	Egress stairs	4	flt	40,000.00	160,000		
	SUBTOTAL					280,000	
C <b>2020</b>	STAIR FINISHES						
	High performance coating to stairs including all railings etc.	6	flt	3,000.00	18,000		
	Precast terrazzo treads and risers	560	lf	120.00	67,200		
	Rubber tile at stairs - landings	600	sf	16.00	9,600		
	Rubber tile at stairs - treads & risers	900	lft	22.00	19,800		
	SUBTOTAL					114,600	
	TOTAL - STAIRCASES						\$394,60
Сзо	INTERIOR FINISHES	]					
C3010	WALL FINISHES						
	Wall finishes	123,030	sf	12.00	1,476,360		
	SUBTOTAL					1,476,360	
3020	FLOOR FINISHES						
-0	Carpet	18,770	sf	5.50	103,235		
	Rubber tile	16,697	sf	12.00	200,364		
	Linoleum tile	33,400	$\mathbf{sf}$	6.00	200,400		
	Premium for acoustic cushioning at upper level classrooms	23,850	sf	3.00	71,550		
	Seal concrete	5,330	sf	2.50	13,325		
	Ceramic tile	3,840	sf	24.00	92,160		
	Terrazzo tile, 24" x 24"	26,700	sf	36.00	961,200		
	Epoxy paint	5,990	sf	2.50	14,975		
	Resilient base	1	ls	30,000.00	30,000		
	SUBTOTAL					1,687,209	
C <b>3030</b>	CEILING FINISHES						
	ACT, 2 x 2	123,030	sf	6.00	738,180		
	GWB soffits, allow SUBTOTAL	1	ls	50,000.00	50,000	788,180	

# D10 CONVEYING SYSTEMS

TOTAL - INTERIOR FINISHES

D1010 ELEVATOR



PSR Design Options Wakefield, MA

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**PSR** Estimate GFA

DESCRIPTION OTY UNIT TOTAL COST COST COST

OPTION B.2 1600 STUDENTS - ADDITION

Elevator; 3 stop SUBTOTAL

ea 180,000.00 180,000

TOTAL - CONVEYING SYSTEMS \$180,000

D20 PLUMBING

PLUMBING, GENERALLY D20

Service entrance, equipment, fixtures and piping. 123,030 19.50 2,399,085

SUBTOTAL 2,399,085

TOTAL - PLUMBING \$2,399,085

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123,030

\$4,552,110

180,000

D30 HVAC

HVAC, GENERALLY

HVAC primarily all electric, air source heat pumps, VRF, and 123,030 sf63.00 7,750,890 gas fired hot water boiler to pre-heat RTU's . Phased

construction SUBTOTAL

7,750,890

TOTAL - HVAC \$7,750,890

FIRE PROTECTION D40

TOTAL - FIRE PROTECTION

D40 FIRE PROTECTION, GENERALLY

Install new service loop, fire pump, phased construction, 123,030 sf 6.50 799,695 temporary conditions and branch FP distribution

SUBTOTAL

799,695

\$799,695

ELECTRICAL D50

> Normal power service & distribution 5000A 123,030 sf5.00 615,150 Generator gear and distribution 600KW 123,030 sf 3.50 430,605 PV rough-in only Equipment wiring sf123,030 3.50 430,605 Lighting, controls and circuitry 123,030 sf10.00 1,230,300 Branch devices and circuitry 123,030  $\operatorname{sf}$ 430,605 3.50 Fire alarm including BDA sf 123,030 3.50 430,605 Technology system 123,030  $\operatorname{sf}$ 246,060 2.00

> Security system sf123,030 1.00 123,030

Miscellaneous electrical 123,030 4.00 492,120 Phased construction 123,030 sf 1.00 123,030

SUBTOTAL 4,552,110

sf

**EQUIPMENT** E10

TOTAL - ELECTRICAL

EQUIPMENT, GENERALLY E10

Culinary equipment - assume part of Food Service - see Reno incl

SUBTOTAL

TOTAL - EQUIPMENT

E20 **FURNISHINGS** 

E2010 FIXED FURNISHINGS

Entry mats & frames - recessed with carpet/rubber strips 1,000 sf 55.00 55,000

18,202 sf Window treatments 7.00 127,414



PSR Design Options Wakefield, MA

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PSR Estimate GFA 123,030

DESCRIPTION QTY UNIT COST COST TOTAL COST

OPTION B.2 1600 STUDENTS - ADDITION

Fixed casework and Equipment, Tavares Design, 10.30.2020

SUBTOTAL 1,407,414

E2020 MOVABLE FURNISHINGS

All movable furnishings to be provided and installed by owner

SUBTOTAL

TOTAL - FURNISHINGS

ls

1,225,000.00

1,225,000

F10 SPECIAL CONSTRUCTION

F10 SPECIAL CONSTRUCTION

No items in this section

SUBTOTAL

TOTAL - SPECIAL CONSTRUCTION

F20 SELECTIVE BUILDING DEMOLITION

F2010 BUILDING ELEMENTS DEMOLITION

No items in this section

SUBTOTAL

F2020 HAZARDOUS COMPONENTS ABATEMENT

See main summary for HazMat allowance See Summary

SUBTOTAL

TOTAL - SELECTIVE BUILDING DEMOLITION

SUBTOTAL OPTION B2 ADDITION 1600 Enrollment

\$44,451,693

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\$1,407,414



PSR Design Options Wakefield, MA

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**PSR Estimate GFA** 239,144

		UNIT	ESID	SUB	TOTAL
DESCRIPTION QT	QTY UNIT	COST	COST	TOTAL	COST

OPTION B.2 1722 STUDENTS - RENOVATION

GROSS FLOOR AREA CALCULATION

Basement Level 30,979 Ground Floor 195,261 Second Floor 12,904

TOTAL GROSS FLOOR AREA (GFA)

239,144 sf

A10 FOUNDATIONS

A1010 STANDARD FOUNDATIONS

Allowance for miscellaneous foundation work; includes 300,000.00 300,000 adding foundations for bracing

SUBTOTAL 300,000

A1020 SPECIAL FOUNDATIONS

No work in this section

SUBTOTAL

A1030 LOWEST FLOOR CONSTRUCTION

Cut and patch SOG for new shear wall foundations 3,750 sf 50.00 187,500 Repair slab cracks 1s 50,000.00 50,000 30,000.00 New equipment pads ls 30,000 1 Slab trenching and replacement at MEP work 195,261 sf 2.00 390,522 Infill existing pool with geofoam, SOG 3,200 sf 40.00 128,000 Premium for stepped auditorium seating/stage/ramps 7,000 sf 50.00 350,000 Allow for floor levelling - LGMF 20,000 sf 30.00 600,000

SUBTOTAL 1,736,022

TOTAL - FOUNDATIONS

\$2,036,022

SUPERSTRUCTURE

B1010 FLOOR CONSTRUCTION

New shear walls 14,000 sf 40.00 560,000 Clip all existing masonry walls to structure gsf 239,144 6.00 1,434,864

SUBTOTAL 1,994,864

**B1020 ROOF CONSTRUCTION** 

Reinforce existing roof for new HVAC equipment 20 tn 5,000.00 100,000 Snow loading, allow 10 tn 5,000.00 50,000

SUBTOTAL 150,000

TOTAL - SUPERSTRUCTURE \$2,144,864

R20 EXTERIOR CLOSURE

> B2010 EXTERIOR WALLS sf 61,070 Exterior Wall Area - Solid 43,950 sf

042000 MASONRY

Clean all masonry/concrete 43,950 sf 8.00 351,600 Repoint existing brick - 100% 37,700 sf 38.00 1,432,600 Staging to exterior wall 61,070 sf 4.00 244,280

Northeast MetroTech PSR 12.2.20 Page 39 PMC - Project Management Cost



PSR Design Options Wakefield, MA

PSR Estimate GFA 239,144

	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
TION B.2 17	22 STUDENTS - RENOVATION	•					
070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Air barrier	43,950	sf	7.00	ETR		
	Air barrier/flashing at windows	7,384	lf	6.25	46,150		
072100	THERMAL INSULATION						
	Insulation; 5" spray foam	43,950	sf	5.00	219,750		
076400	CLADDING						
0/0400	Roof equipment screen - allow				w/ addition		
	Root equipment screen - anow				w/ addition		
092900	GYPSUM BOARD ASSEMBLIES						
	Interior face of wall						
	Metal stud, 3-5/8"	43,950	sf	5.00	219,750		
	ARGWB lining to interior face of stud backup	43,950	sf	4.00	175,800		
	SUBTOTAL					2,689,930	
D	ANTENDO ANG CONTRA PARAMANA						
B2020	WINDOWS/CURTAINWALL Exterior Wall Area - Glazed	15.100	of.				
	Exterior wan Area - Giazeu	17,120	sf				
061000	ROUGH CARPENTRY						
	Wood blocking at openings	7,384	lf	12.00	88,608		
070001	$WATERPROOFING, DAMPPROOFING\ AND\ CAULKING$						
	Backer rod & double sealant	7,384	lf	9.00	66,456		
080001	METAL WINDOWS						
	Curtainwall, double glazed	1,280	sf	120.00	153,600		
	Storefront, double glazed	6,870	sf	95.00	652,650		
	Kalwall	8,970	sf	70.00	627,900		
	Premium for operable openings	272	ea	400.00	108,800		
	SUBTOTAL					1,698,014	
Ranan	EXTERIOR DOORS						
<i>D</i> <b>2</b> 030	Glazed entrance doors including frame and hardware; double	16	pr	9,000.00	144,000		
	door	10	Pi	9,000.00	144,000		
	Glazed entrance doors including frame and hardware; single	1	ea	4,500.00	4,500		
	door HM doors, frames and hardware- Double	5	ea	3,800.00	19,000		
	HM doors, frames and hardware- single	15	ea	1,900.00	28,500		
	Overhead doors	8	ea	12,000.00	96,000		
	SUBTOTAL	· ·	ou.	12,000.00	90,000	292,000	
	TOTAL - EXTERIOR CLOSURE						\$4,679,9

B3010	ROOF COVERINGS					
	PVC membrane system	195,261	sf	22.00	4,295,742	
	Roof edge at membrane roofing	4,490	lf	50.00	224,500	
	Fascia at high roof, 24'	1,080	sf	80.00	86,400	
	Miscellaneous flashings, accessories etc.	195,261	sf	1.25	244,076	
	Perimeter blocking and sealants	195,261	sf	1.50	292,892	
	Allowance for soffits/ overhangs	195,261	sf	3.00	585,783	
	SUBTOTAL					5,729



PSR Design Options

Wakefield, MA

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**PSR Estimate GFA** 239,144

02-Dec-20

			UNIT	EST'D	SUB	TOTAL
DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

# OPTION B.2 1722 STUDENTS - RENOVATION

# B3020 ROOF OPENINGS

No work in this section

SUBTOTAL

TOTAL - ROOFING \$5,729,393

118 119 C10 INTERIOR CONSTRUCTION

C1010 PARTITIONS

Allowance to modify existing walls and add new walls where gsf 239,144 required

SUBTOTAL

C1020 INTERIOR DOORS 239,144 sf 6.00 1,434,864

New doors, frames and hardware

SUBTOTAL 1,434,864

C1030 SPECIALTIES / MILLWORK

Specialties 239,144 gsf 7.50 1,793,580

SUBTOTAL

TOTAL - INTERIOR CONSTRUCTION \$7,533,036

18.00

4,304,592

4,304,592

1,793,580

85,000

STAIRCASES C20

C2010 STAIR CONSTRUCTION

New stairs flt 35,000.00 35,000

Allowance for ADA compliant railings flt 5 10,000.00 50,000

SUBTOTAL

C2020 STAIR FINISHES

Allowance for new stair finishes

flt 5,000.00 25,000 5

SUBTOTAL 25,000

TOTAL - STAIRCASES \$110,000

INTERIOR FINISHES Сзо

C3010 WALL FINISHES

Painting/new wall finishes throughout 239,144 gsf 12.00 2,869,728

SUBTOTAL 2,869,728

C3020 FLOOR FINISHES

Resilient base

Allowance to prep floors for new finishes 239,144 sf3.00 717,432 Carpet sf 7,665 5.50 42,158 Rubber tile 48,780 sf 12.00 585,360 Linoleum tile 81,670 sf 6.00 490,020 Clean and seal concrete 54,250 sf 4.00 217,000 Ceramic tile 1,740 sf 24.00 41,760 Athletic performance wood 8,220 sf 18.00 147,960 Vented base 360 lf 8.00 2,880 Wood sprung floor 1,800 sf 22.00 39,600 Terrazzo tile, 24" x 24" 1,090 sf 36.00 39,240 Refinish wood stage 1,800 sf 8.00 14,400 Poured epoxy with integral base 14,525 sf 16.00 232,400 Epoxy paint 8,215 sf 2.50 20,538

ls

30,000.00

30,000



PSR Design Options

Wakefield, MA

**PSR** Estimate GFA 239,144

02-Dec-20

	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTA
TION R 2	1722 STUDENTS - RENOVATION	***					
IION B.2	SUBTOTAL					2,620,748	
C30;	30 CEILING FINISHES						
	ACT, 2 x 2	169,144	sf	6.00	1,014,864		
	Painted structure	70,000	sf	2.00	140,000	06 .	
	SUBTOTAL					1,154,864	
	TOTAL - INTERIOR FINISHES						\$6,64
D10	O CONVEYING SYSTEMS						
<u>-</u>							
	New lift	1	ls	30,000.00	30,000		
	Remove and replace elevator, 3 stop	1	ls	180,000.00	180,000		
	Premium for existing building	1	ls	100,000.00	100,000		
	SUBTOTAL					310,000	
	TOTAL - CONVEYING SYSTEMS						\$31
<u> </u>							
_ <u> </u>	DI VIADDIG						
D20	o PLUMBING						
D2	PLUMBING, GENERALLY						
	New service entrance, new equipment, fixtures and piping	<b>239,144</b>	sf	20.00	4,782,880		
	Phase construction and temporary conditions						
	SUBTOTAL					4,782,880	
	TOTAL - PLUMBING						\$4,78
	TOTAL - I EUMBINO						Ψ4,70
Do	IRVAC						
D30	O HVAC						
D3	HVAC, GENERALLY						
	HVAC primarily all electric, air source heat pumps, VRF,	and <b>239,144</b>	sf	65.00	15,544,360		
	gas fired hot water boiler to pre-heat RTU's. Phased construction and temporary conditions						
	• •						
	SUBTOTAL					15,544,360	
	• •					15,544,360	\$15,54
	SUBTOTAL					15,544,360	<b>\$15,5</b> 4
D44	SUBTOTAL  TOTAL - HVAC					15,544,360	\$15,54
•	SUBTOTAL  TOTAL - HVAC  FIRE PROTECTION					15,544,360	\$15,54
D40	SUBTOTAL  TOTAL - HVAC  FIRE PROTECTION  FIRE PROTECTION, GENERALLY	sad ago	of	T05	1700 504	15,544,360	\$15,54
•	SUBTOTAL  TOTAL - HVAC  FIRE PROTECTION	sed <b>239,144</b>	sf	7.25	1,733,794	15,544,360	\$15,54
•	SUBTOTAL  TOTAL - HVAC  FIRE PROTECTION  FIRE PROTECTION, GENERALLY  Install new service loop, fire pump, partial demoliton,pha	sed <b>239,144</b>	sf	7.25	1,733,794	15,544,360	\$15,54
•	SUBTOTAL  TOTAL - HVAC  PIRE PROTECTION  FIRE PROTECTION, GENERALLY  Install new service loop, fire pump, partial demoliton, pha construction, temporary conditions and branch FP	sed <b>239,144</b>	sf	7.25	1,733,794	15,544,360 1,733,794	\$15,54
•	SUBTOTAL  TOTAL - HVAC  FIRE PROTECTION  FIRE PROTECTION, GENERALLY  Install new service loop, fire pump, partial demoliton, pha construction, temporary conditions and branch FP distribution  SUBTOTAL	sed <b>239,144</b>	sf	7.25	1,733,794		\$15,54
•	SUBTOTAL  TOTAL - HVAC  FIRE PROTECTION  FIRE PROTECTION, GENERALLY  Install new service loop, fire pump, partial demoliton, pha construction, temporary conditions and branch FP distribution	sed <b>239,144</b>	sf	7.25	1,733,794		\$15,54 \$1,75
D4	TOTAL - HVAC  PIRE PROTECTION  FIRE PROTECTION, GENERALLY Install new service loop, fire pump, partial demoliton, pha construction, temporary conditions and branch FP distribution SUBTOTAL  TOTAL - FIRE PROTECTION	sed <b>239,144</b>	sf	7.25	1,733,794		
•	TOTAL - HVAC  PIRE PROTECTION  FIRE PROTECTION, GENERALLY Install new service loop, fire pump, partial demoliton, pha construction, temporary conditions and branch FP distribution SUBTOTAL  TOTAL - FIRE PROTECTION	sed <b>239,144</b>	sf	7.25	1,733,794		
D4	TOTAL - HVAC  PIRE PROTECTION  FIRE PROTECTION, GENERALLY Install new service loop, fire pump, partial demoliton, pha construction, temporary conditions and branch FP distribution SUBTOTAL  TOTAL - FIRE PROTECTION	sed <b>239,144</b>	sf	7.25	1,733,794		
D4	TOTAL - HVAC  D FIRE PROTECTION  D FIRE PROTECTION, GENERALLY Install new service loop, fire pump, partial demoliton, pha construction, temporary conditions and branch FP distribution SUBTOTAL  TOTAL - FIRE PROTECTION  D ELECTRICAL  Normal power service & distribution 5000A Generator gear and distribution 600KW						
D4	TOTAL - HVAC  PIRE PROTECTION  FIRE PROTECTION, GENERALLY Install new service loop, fire pump, partial demoliton, pha construction, temporary conditions and branch FP distribution SUBTOTAL  TOTAL - FIRE PROTECTION  DELECTRICAL  Normal power service & distribution 5000A Generator gear and distribution 600KW PV rough-in only	239,144	sf sf	5.00	1,195,720 837,004		
D4	TOTAL - HVAC  D FIRE PROTECTION  D FIRE PROTECTION, GENERALLY Install new service loop, fire pump, partial demoliton, pha construction, temporary conditions and branch FP distribution SUBTOTAL  TOTAL - FIRE PROTECTION  D ELECTRICAL  Normal power service & distribution 5000A Generator gear and distribution 600KW	239,144	sf	5.00	1,195,720		



PSR Design Options Wakefield, MA

**PSR** Estimate GFA 239,144

02-Dec-20

			UNIT	EST'D	SUB	TOTAL
DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
TION B.2 1722 STUDENTS - RENOVATION						
Fire alarm including BDA	239,144	sf	3.50	837,004		
Technology system	239,144	sf	2.00	478,288		
Theater lighting systems	1	ls	200,000.00	200,000		
Security system	239,144	sf	1.00	239,144		
Miscellaneous electrical	239,144	sf	4.00	956,576		
Demolition and phased construction	239,144	sf	2.00	478,288		
SUBTOTAL					9,287,472	
Communications cabling and equipment allowance provided	1	ls	1,739,625.00	1,739,625		
A/V cabling allowance provided	1	ls	104,000.00	104,000		
IPTV and video pn demand allowance provided	1	ls	360,000.00	360,000		
Gym A/V allowance provided	1	ls	128,000.00	128,000		
Auditorium/stage A/V allowance provided	1	ls	148,000.00	148,000		
Cafeteria/Stage A/V allowance provided	1	ls	148,000.00	148,000		
Fitness Center A/V allowance provided	1	ls	15,500.00	15,500		
Weights A/V allowance provided	1	ls	15,500.00	15,500		
Speech Reinforcement allowance provided	1	ls	244,200.00	244,200		
Instructional A/V allowance provided	1	ls	650,000.00	650,000		
PA System allowance provided	1	ls	218,200.00	218,200		
Clock System allowance provided	1	ls	126,300.00	126,300		
SUBTOTAL					3,897,325	
Security system allowance provided	1	ls	1,297,200.00	1,297,200		
SUBTOTAL					1,297,200	
TOTAL - ELECTRICAL						\$14,481

10	EQUIPMENT						
210	EQUIPMENT, GENERALLY Tavares Design, 10.30.2020						
	Food service equipment	1	ls	825,000.00	825,000		
	Basketball backstops	1	ls	27,000.00	27,000		
	Stage curtains and rigging	1	ls	650,000.00	650,000		
	Divider curtains	1	ls	32,000.00	32,000		
	Gym wall padding	1	ls	25,000.00	25,000		
	Telescoping bleachers	1	ls	215,000.00	215,000		
	Automotive refinishing - Booths/Frame Machine	1	ls	325,000.00	325,000		
	Automotive Tech - lifts	1	ls	160,000.00	160,000		
	HVAC/Plumbing - Boilers/Furnaces/Split systems	1	ls	65,000.00	65,000		
	Cosmetology - Wet stations/Manicure/Styling	1	ls	110,000.00	110,000		
	SUBTOTAL					2,434,000	
	Gymnasium dividing net; electrically operated	1	ls	30,000.00	30,000		
	Volleyball net and standards	1	ls	5,000.00	5,000		
	Wrestling mat lifter	1	ls	12,000.00	12,000		
	Scoreboards and shot clock	1	ls	25,000.00	25,000		
	Ceiling mounted batting cage	1	ls	2,500.00	2,500		
	Culinary equipment - assume part of Food Service above				incl		
	Residential appliances	1	ls	50,000.00	50,000		
	Electrically operated projection screens				w/ AV		
	SUBTOTAL					124,500	

Northeast MetroTech PSR 12.2.20 Page 43 PMC - Project Management Cost



PSR Design Options

Wakefield, MA

**PSR Estimate** GFA 239,144

			UNIT	EST'D	SUB	TOTAL
DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

OPTION B.2 1722 STUDENTS - RENOVATION

E2010 FIXED FURNISHINGS

CASEWORK123553

Counters, base cabinets, tall storage in classrooms and other

rooms - see ADD

Entry mats & frames sf 55.00 11,000 200 Window blinds sf 17,120 7.00 119,840 Auditorium seating **750** seats 310.00 232,500

SUBTOTAL 363,340

E2020 MOVABLE FURNISHINGS

All movable furnishings to be provided and installed by

owner

SUBTOTAL NIC

TOTAL - FURNISHINGS \$363,340

incl

F10 SPECIAL CONSTRUCTION

SPECIAL CONSTRUCTION F10

No work in this section

SUBTOTAL

TOTAL - SPECIAL CONSTRUCTION

SELECTIVE BUILDING DEMOLITION F20

F2010 BUILDING ELEMENTS DEMOLITION

Slab trenching and replacement at MEP work and shear wall 3,750 sf 15.00 56,250 Exterior closure demolition at connections to new additions ls 1 100,000.00 100,000 Remove existing roofing sf 195,261 585,783 3.00

Interior demolition including removal of cut & capped MEP gsf 8.00 239,144 1,913,152 equipment and fixtures Temporary enclosures/protection 5.00 239,144 sf 1,195,720

Remove exterior glazing sf17,120 6.00 102,720 SUBTOTAL 3,953,625

F2020 HAZARDOUS COMPONENTS ABATEMENT

See summary SUBTOTAL

TOTAL - SELECTIVE BUILDING DEMOLITION

SUBTOTAL OPTION B2 RENOVATION 1722 Enrollment

\$72,607,095

\$3,953,625

Northeast MetroTech PSR 12.2.20 Page 44 PMC - Project Management Cost

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282 283 **FURNISHINGS** E20

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PSR Design Options Wakefield, MA

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PSR Estimate GFA 150,854

			UNIT	EST'D	SUB	TOTAL
DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

OPTION B.2 1722 STUDENTS - ADDITION

GROSS FLOOR AREA CALCULATION

First Floor 55,891 Second Floor 38,663 Third Floor 37,807 Fourth Floor 18,493

	TOTAL GROSS FLOOR AREA (GFA)				150,854 <i>sf</i>
A10	FOUNDATIONS				
A1010	STANDARD FOUNDATIONS				
033000	CONCRETE				
	Strip Footings	057	CY		
	Foundation Walls	257	CY		
	Spread Footings	455 614	CY		
	Piers	-	CY		
	Total Foundation Concrete	73	CY		
		1,399	CI		
	Strip footings Formwork	4 400	a <b>f</b>	14.00	61.600
		4,400	sf	14.00	61,600
	Re-bar	22,000	lbs.	1.40	30,800
	Concrete material	257	cy	130.00	33,410
	Placing concrete	<b>25</b> 7	cy	100.00	25,700
	Foundation walls	4= ( 0.5	a <b>f</b>	00.00	050.000
	Formwork Ro box	17,600	sf	20.00	352,000
	Re-bar	35,200	lbs.	1.40	49,280
	Concrete material	455	cy	130.00	59,150
	Placing concrete	455	cy	140.00	63,700
	Form shelf	2,200	lf	10.00	22,000
	Spread Footings; 11' x 11' x 2'				
	Formwork	2,464	sf	16.00	39,424
	Re-bar	42,240	lbs.	1.40	59,136
	Concrete material	264	cy	130.00	34,320
	Placing concrete	264	cy	160.00	42,240
	Set anchor bolts grout plates	28	ea	150.00	4,200
	Spread Footings; 10' x 10' x 2'				
	Formwork	3,600	sf	16.00	57,600
	Re-bar	56,000	lbs.	1.40	78,400
	Concrete material	350	cy	130.00	45,500
	Placing concrete	350	cy	160.00	56,000
	Set anchor bolts grout plates	45	ea	150.00	6,750
	Spread Footings; 8' x 8' x 2'				
	Formwork	2,880	sf 	16.00	46,080
	Re-bar	35,840	lbs.	1.40	50,176
	Concrete material	224	cy	130.00	29,120
	Placing concrete	224	cy	160.00	35,840
	Set anchor bolts grout plates	45	ea	150.00	6,750
	<u>Piers/Pilasters</u>				
	Formwork	2,832	sf	22.00	62,304
	Re-bar	18,250	lbs	1.40	25,550
	Concrete material	73	cy	130.00	9,490
	Placing concrete	73	cy	160.00	11,680
	Thickened slab at interior load bearing walls	111	cy	350.00	38,850
070001	WATERPROOFING, DAMPPROOFING AND CAULKING				
0,0001		0.5			
	Dampproofing at brick shelf	8,800	sf	3.00	NR
072100	THERMAL INSULATION				
,		9 900	of	0.00	06 400
	Insulation	8,800	sf	3.00	26,400



PSR Design Options Wakefield, MA

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PSR Estimate GFA 150,854

02-Dec-20

				UNIT	EST'D	SUB	TOTAL	l
	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST	ĺ

OPTION B.2 1722 STUDENTS - ADDITION

Strip footings

Excavation w/ lowest slab
Remove off site w/ lowest slab

Backfill with selected material w/ lowest slab

Spread footings

Excavation w/ lowest slab
Remove off site w/ lowest slab

Backfill with selected material w/ lowest slab

Miscellaneous

Gravel fill beneath footings, 12" w/ lowest slab
Perimeter drain 2,200 lf 22.00 48,400
Underslab drainage and waterproofing system S5,891 sf 1.00 55,891

Dewatering for foundation work 1 ls 20,000.00 20,000 SUBTOTAL 1,587,741

A1020 SPECIAL FOUNDATIONS

No work in this section SUBTOTAL

A1030 LOWEST FLOOR CONSTRUCTION

111030	LOWEST PEOCK CONSTRUCTION					
	Drilling/matting/blasting					
	At building addition footprint; includes no credit for selling processed rock	10,969	cy	45.00	493,605	
	At parking garage footprint; includes no credit for selling processed rock; allowance	19,815	cy	45.00	w/ site	
	Trench; for utility lines	1,500	cy	65.00	w/ site	
	Rock excavation/hauling to stockpile location	10,969	cy	7.00	76,783	
	Process and stockpile for reuse on site x1.65 (2" minus)	35,170	tns	7.00	w/ site	
	Process and stockpile for reuse within building footprints incl. 12" of structural below SOG x1.65 (2" minus)	15,083	tns	7.00	105,581	
	Pre split face; for exposed rock slopes; allowance	5,000	sf	9.78	w/ site	
	Building Earthwork					
	Fill below footprint to make up level- reuse processed rock	9,141	cy	12.00	109,692	
	New Slab on grade, 5" thick	55,891	sf	'		
	Rigid insulation, underslab	55,891	sf	2.25	125,755	
	Vapor barrier	55,891	sf	1.00	55,891	
	Compact existing sub-grade	55,891	sf	0.50	27,946	
	Mesh reinforcing 15% lap	64,275	sf	1.10	70,703	
	Concrete - 5" thick; 4,000 psi	913	cy	135.00	123,255	
	Placing concrete	913	cy	45.00	41,085	
	Finishing and curing concrete	55,891	sf	2.50	139,728	
	Control joints - saw cut	55,891	sf	0.10	5,589	

ea

35,000.00

35,000

1,410,613

\$2,998,354

A20 BASEMENT CONSTRUCTION

Elevator pit, 24" mat foundation w/ 12" concrete wall

TOTAL - FOUNDATIONS

A2010 BASEMENT EXCAVATION

No Work in this section

SUBTOTAL

Miscellaneous

SUBTOTAL

A2020 BASEMENT WALLS

No Work in this section

SUBTOTAL



PSR Design Options Wakefield, MA

PSR Estimate GFA 150,854

			UNIT	EST'D	SUB	TOTAL
DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

OPTION B.2 1722 STUDENTS - ADDITION

TOTAL - BA	SEMENT CONSTRUCTION		

B10	SUPERSTRUCTURE						
		14.52	lbs/sf				
B1010	FLOOR CONSTRUCTION	1,095	tns				
	Floor Structure - Steel:						
	Steel beams and columns, 14#/SF	665	tns	3,800.00	2,527,000		
	Shear studs	18,993	ea	2.50	47,483		
	Floor Structure						
	3", 18ga Metal galvanized floor Deck	94,963	sf	4.00	379,852		
	WWF reinforcement	109,207	sf	1.10	120,128		
	Concrete fill to metal deck; total depth 5-1/4" light weight	1,616	cy	175.00	282,800		
	Place and finish concrete	94,963	sf	3.00	284,889		
	Rebar to decks	28,489	lbs	1.20	34,187		
	Misc. angles	94,963	sf	0.50	47,482		
	Miscellaneous						
	Fire proofing to columns and beams	94,963	sf	2.50	237,408		
	Fire stopping floors	1	ls	10,000.00	10,000		
	SUBTOTAL					3,971,229	
B1020	ROOF CONSTRUCTION						
	Roof Structure - Steel:						
	Steel beams and columns at roof, 14#/SF	430	tns	3,800.00	1,634,000		
	Roof Structure						
	3" 20 Ga. galvanized metal roof deck	61,480	sf	3.50	215,180		
	Miscellaneous						
	Roof screen support	80	tns	5,000.00	400,000		
	Concrete at mechanical equipment/ vegetated roof	21,058	sf	10.00	210,580		
	Intumescent paint			N	NIC		
	Fire proofing to columns, beams and deck	61,480	sf	3.00	184,440		
	SUBTOTAL	- / • • •		0	- 1711*	2,644,200	

TOTAL - SUPERSTRUCTURE \$6,615,429

B20	EXTERIOR CLOSURE				
B2010	EXTERIOR WALLS Exterior Wall Area	7 <b>5,845</b> 50,058	sf sf		
042000	MASONRY				
	CMU veneer - large format, Arriscraft	7,585	sf	48.00	364,080
	CMU back up	7,585	sf	30.00	227,550
	Staging/Lifts to exterior wall	50,058	sf	4.00	200,232
055000	MISC. METALS				
	Sign at main entrance	1	ls	10,000.00	10,000
	Misc. metals at masonry	15,170	sf	1.50	22,755
070001	WATERPROOFING, DAMPPROOFING AND CAULKING				
	Air barrier	50,058	sf	7.50	375,435
	Air barrier/flashing at windows	15,169	lf	6.25	94,806
	Miscellaneous sealants to closure	50,058	sf	1.00	50,058
072100	THERMAL INSULATION				
	Insulation	50,058	sf	3.50	175,203

PMC - Project Management Cost



PSR Estimate GFA 150,854

					UNIT	EST'D	SUB	TOTAL
		DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
	OPTION B.2 17	22 STUDENTS - ADDITION			•		•	
178	,							
179	076400	CLADDING						
180		Metal panel	15,169	sf	75.00	1,137,675		
181		High performance concrete panel	27,304	sf	90.00	2,457,360		
182		Soffit at overhang, including framing				NIC		
183		Roof equipment screen - allow	10,000	sf	70.00	700,000		
184								
185	092900	GYPSUM BOARD ASSEMBLIES						
186		6" CFMF backup	15,169	sf	12.00	182,028		
187		Gypsum Sheathing	15,169	sf	2.75	41,715		
188		Drywall lining to interior face of stud backup	15,169	sf	3.50	53,092		
189 190		SUBTOTAL					6 001 090	
191		SUBTOTAL					6,091,989	
192	B2020	WINDOWS						
193		Exterior Glazed Area	25,788	sf				
194								
195	061000	ROUGH CARPENTRY						
196		Wood blocking at openings	15,169	lf	12.00	182,028		
197 198	070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
199		Backer rod & double sealant	15,169	lf	9.00	136,521		
200			-0,7		,,,,,	-5-,5		
201	080001	METAL WINDOWS						
202		Curtainwall, double glazed	11,377	sf	120.00	1,365,240		
203		Storefront, double glazed	11,377	sf	95.00	1,080,815		
204		Sunshades; allow	1	ls	200,000.00	200,000		
205	-0	INGLY AFFED FID AND LIGHTED AND C						
206	084500	INSULATED TRANSLUCENT PANELS						
207		Translucent wall panels	3,034	sf	90.00	273,060		
208 209	089000	LOUVERS						
210		Louvers	250	sf	65.00	16,250		
211		SUBTOTAL	· ·		Ü	, 0	3,253,914	
212							0, 00,,	
213	B2030	EXTERIOR DOORS	_			(		
214		Glazed entrance doors including frame and hardware; double door	7	pr	9,000.00	63,000		
215		Glazed entrance doors including frame and hardware; single	2	ea	4,500.00	9,000		
		door			4,5	,,,,,,		
216		Overhead doors	1	ea	12,000.00	12,000		
217		Backer rod & double sealant	180	lf	9.00	1,620		
218		Wood blocking at openings	180	lf	3.00	540		
219		SUBTOTAL					86,160	
220								
221		TOTAL - EXTERIOR CLOSURE						\$9,432,063
223								
224	B30	ROOFING	1					
225		POOL GOVERNIGG	•					
226 227	В3010	ROOF COVERINGS	(4.400	_£				
		PVC membrane system	61,480	sf	22.00	1,352,560		
228		Roof edge at membrane roofing	2,400	lf of	50.00	120,000		
		Miscellaneous flashings, accessories etc.	61,480	sf -c	1.00	61,480		
230		Perimeter blocking and sealants	61,480	sf	1.50	92,220		
231		Allowance for soffits/ overhangs	61,480	sf	3.00	184,440		
232		Premium for vegetated roof/patio	16,058	sf	35.00	562,030		
233 234		SUBTOTAL					2,372,730	
235	B3020	ROOF OPENINGS						
236	-	Skylights, allow	1	ls	10,000.00	10,000		
237		Roof hatch	1	loc	2,500.00	2,500		



PSR Design Options Wakefield, MA

PSR Estimate GFA 150,854

02-Dec-20

\$591,900

			UNIT	EST'D	SUB	TOTAL
SCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

OPTION B.2 1722 STUDENTS - ADDITION

SUBTOTAL 12,500

	TOTAL - ROOFING						\$2,385,230
C10	INTERIOR CONSTRUCTION	]					
C1010							
	Miscellaneous partitions - glazing, CMU, GWB assemblies, etc. SUBTOTAL	150,854	gsf	32.00	4,827,328	4,827,328	
						4,02/,320	
C1020	INTERIOR DOORS Doors; complete	150,854	gsf	6.00	905,124		
	SUBTOTAL	• , • .	Ü		, , ,	905,124	
C1030	SPECIALTIES / MILLWORK						
	Specialties	150,854	gsf	7.50	1,131,405		
	SUBTOTAL					1,131,405	
	TOTAL - INTERIOR CONSTRUCTION						\$6,863,857
		_					
C20	STAIRCASES	]					
C2010	STAIR CONSTRUCTION						
	Feature stairs, 1-3	3	flt	60,000.00	180,000		
	Egress stairs	6	flt	40,000.00	240,000		

SUBTOTAL 420,000 C2020 STAIR FINISHES High performance coating to stairs including all railings etc. flt 3,000.00 27,000 Precast terrazzo treads and risers lf 120.00 100,800 Rubber tile at stairs - landings  $\operatorname{sf}$ 16.00 14,400 Rubber tile at stairs - treads & risers lft 22.00 1,350 29,700

SUBTOTAL 171,900

	TOTAL - STAIRCASES					
	TOTAL - STAIRCASES					
Сзо	INTERIOR FINISHES					
C3010	WALL FINISHES					
Ü	Wall finishes	150,854	sf	12.00	1,810,248	
	SUBTOTAL					1,810,248
C3020	FLOOR FINISHES					
	Carpet	19,950	sf	5.50	109,725	
	Linoleum tile	49,354	sf	6.00	296,124	
	Premium for acoustic cushioning at upper level classrooms	30,060	sf	3.00	90,180	
	Seal concrete	1,580	sf	2.50	3,950	
	Ceramic tile	4,600	sf	24.00	110,400	
	Terrazzo tile, 24" x 24"	30,225	sf	36.00	1,088,100	
	Poured epoxy with integral base	9,750	sf	16.00	156,000	
	Resilient base	1	ls	30,000.00	30,000	
	SUBTOTAL					1,884,479
C3030	CEILING FINISHES					
	ACT, 2 x 2	150,854	sf	6.00	905,124	
	GWB soffits, allow	1	ls	50,000.00	50,000	
	SUBTOTAL					955,124

TOTAL - INTERIOR FINISHES \$4,649,851

D10 CONVEYING SYSTEMS

D1010 ELEVATOR



PSR Design Options Wakefield, MA

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**PSR** Estimate GFA 150,854

DESCRIPTION OTY UNIT TOTAL COST COST COST

**OPTION B.2 1722 STUDENTS - ADDITION** 

SUBTOTAL

Elevator; 4 stop ea 240,000.00 240,000

TOTAL - CONVEYING SYSTEMS \$240,000

D20 PLUMBING

PLUMBING, GENERALLY D20

Service entrance, equipment, fixtures and piping. 150,854 19.50 2,941,653

SUBTOTAL 2,941,653

TOTAL - PLUMBING \$2,941,653

sf

D30 HVAC

HVAC, GENERALLY

HVAC primarily all electric, air source heat pumps, VRF, and 150,854 gas fired hot water boiler to pre-heat RTU's . Phased

construction

SUBTOTAL 9,503,802

> TOTAL - HVAC \$9,503,802

63.00

9,503,802

FIRE PROTECTION D40

D40 FIRE PROTECTION, GENERALLY

980,551 Install new service loop, fire pump, phased construction, 150,854 sf 6.50 temporary conditions and branch FP distribution

SUBTOTAL 980,551

TOTAL - FIRE PROTECTION \$980,551

ELECTRICAL D50

> Normal power service & distribution 5000A 150,854 sf5.00 754,270 Generator gear and distribution 600KW 150,854 sf 3.50 527,989 PV rough-in only Equipment wiring 150,854 sf 3.50 527,989 Lighting, controls and circuitry 150,854 sf10.00 1,508,540 Branch devices and circuitry 150,854  $\operatorname{sf}$ 527,989 3.50 Fire alarm including BDA sf 150,854 3.50 527,989 Technology system 150,854  $\operatorname{sf}$ 301,708 2.00 Security system sf150,854 1.00 150,854 Miscellaneous electrical 150,854 sf 4.00 603,416 Phased construction 150,854 sf 1.00 150,854

> > TOTAL - ELECTRICAL \$5,581,598

**EQUIPMENT** E10

SUBTOTAL

EQUIPMENT, GENERALLY E10

Culinary equipment - assume part of Food Service - see Reno

SUBTOTAL

TOTAL - EQUIPMENT

E20 **FURNISHINGS** 

E2010 FIXED FURNISHINGS Entry mats & frames - recessed with carpet/rubber strips

> 25,788 sf 180,516 Window treatments 7.00

Northeast MetroTech PSR 12.2.20 Page 50 PMC - Project Management Cost

1,000

sf

55.00

02-Dec-20

240,000

5,581,598

incl

55,000



PSR Design Options Wakefield, MA

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PSR Estimate GFA 150,854

DESCRIPTION QTY UNIT COST COST TOTAL COST

OPTION B.2 1722 STUDENTS - ADDITION

Fixed casework and Equipment, Tavares Design, 10.30.2020  ${\bf 1} \hspace{0.5cm} \text{ls} \hspace{0.5cm} \text{1,225,000.00}$ 

SUBTOTAL 1,460,516

E2020 MOVABLE FURNISHINGS

All movable furnishings to be provided and installed by owner

SUBTOTAL

TOTAL - FURNISHINGS

1,225,000

F10 SPECIAL CONSTRUCTION

F10 SPECIAL CONSTRUCTION

No items in this section

SUBTOTAL

TOTAL - SPECIAL CONSTRUCTION

F20 SELECTIVE BUILDING DEMOLITION

F2010 BUILDING ELEMENTS DEMOLITION

No items in this section

SUBTOTAL

F2020 HAZARDOUS COMPONENTS ABATEMENT

See main summary for HazMat allowance See Summary

SUBTOTAL

TOTAL - SELECTIVE BUILDING DEMOLITION

SUBTOTAL OPTION B2 ADDITION 1722 Enrollment

\$54,244,804

02-Dec-20

\$1,460,516



PSR Estimate

		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITEW	ORK OI	PTION B.2						
	G	SITEWORK						
	G10	SITE PREPARATION & DEMOLITION						
	010	Site construction fence/barricades	6,710	lf	16.00	107,360		
		Site construction fence gates and construction entrance	2	ea	10,000.00	20,000		
		Police details/road closures/phasing for utility work	1	ls	125,000.00	125,000		
		Pavement/curbing removal- site	276,600	sf	1.25	345,750		
		Pavement/curbing removal- utility work in road	40,300	sf	1.25	50,375		
		Clear trees, remove all stumps etc allow	1	ls	25,000.00	25,000		
		Construction laydown area	1	ls	10,000.00	10,000		
		Miscellaneous demolition including utilities	1	ls	100,000.00	100,000		
		SUBTOTAL					783,485	
		<u>Earthwork</u>						
		Pre-blast survey	1	ls	100,000.00	100,000		
		Topsoil handling						
		Strip topsoil and forest organics and remove off-site; allow	1,500	cy	16.00	24,000		
		Drilling/matting/blasting						
		At building addition footprint; includes no credit for selling processed rock	10,969	cy	45.00	w/ building		
		At parking garage footprint; includes no credit for selling processed rock; allowance	19,815	cy	45.00	891,675		
		Trench; for utility lines	1,500	cy	65.00	97,500		
		Rock excavation/hauling to stockpile location	21,315	cy	7.00	149,205		
		Process and stockpile for reuse on site x1.65 (2" minus)	35,170	tns	7.00	246,190		
		Process and stockpile for reuse within building footprints incl. 12"	15,083	tns	7.00	w/ building		
		of structural below SOG x1.65 (2" minus)	-0,0		,,,,,	,		
		Pre split face; for exposed rock slopes; allowance	5,000	sf	9.78	48,900		
		Building Earthwork						
		Fill below footprint to make up level- reuse processed rock	9,141	cy	12.00	w/ building		
		Site Earthwork						
		Cut/Fill allowance	5,000	cy	24.00	120,000		
		Groundwater management/ control measures	2	mths	20,000.00	40,000		
		Fine grading	63,161	sy	2.25	142,112		
		<u>Hazardous Waste Remediation</u>						
		Remove existing underground fuel storage tanks				assume not requ		
		Dispose/treat contaminated soils				assume not requ	ired	
		Erosion Control						
		Silt fence/erosion control, wash bays, stock piles	6,710	lf	12.00	80,520		
		Inlet protection; allow	20	ea	250.00	5,000		
		Slope protection; allow	1	ls	25,000.00	25,000		
		Tree protection; allow	500	lf	10.00	5,000		
		Wheel wash stations	1	ls	15,000.00	15,000		
		Silt fence maintenance and monitoring	1	ls	30,000.00	30,000		
		SUBTOTAL					2,020,102	
	G20	SITE IMPROVEMENTS						
		Asphalt Paving; parking lot and roadway	253,400	sf				
		gravel base; 12" thick	9,385	cy	40.00	375,400		
		asphalt; 4" thick	6,272	tns	120.00	752,640		
		Service road - Remove, Grind and Repave	3,610	sf				
		gravel base; 12" thick	134	cy	40.00	5,360		
		asphalt; 4" thick	89	tns	120.00	10,680		
		Granite curbing	4,530	lf	42.00	190,260		
		Patching for utility work	40,305	sf	2.50	100,763		



PSR Design Options Wakefield, MA

PSR Estimate

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SUBTOTAL

UNIT EST'D SUB TOTAL DESCRIPTION QTY UNIT COST COST TOTAL COST SITEWORK OPTION B.2 Parking lines **59**7 85.00 50,745 spc Other road markings ls 10,000.00 10,000 HC curb cuts - allow loc 850.00 12,750 15 SUBTOTAL 1,508,598 Intersection Work Traffic Signal and intersection work ls 1,500,000.00 1,500,000 SUBTOTAL 1,500,000 Farm Street Access Site construction fence/barricades 4,000 1f 16.00 64,000 Site construction fence gates and construction entrance ea 10,000.00 10,000 lf Silt fence/erosion control 4,000 12.00 48,000 Clear trees, remove all stumps etc. - allow 2 acre 8,000.00 16,000 Miscellaneous demolition including utilities 1 ls 50,000.00 50,000 Topsoil handling 4,500 Strip topsoil and forest organics and remove off-site; allow 16.00 72,000 cy Earthwork To design subgrade of site; includes no credit for selling processed 15,700 cy 45.00 706,500 Trench; for utility lines 500 cy 65.00 32,500 Rock excavation/hauling to stockpile location 20,700 cy 7.00 144,900 Process and stockpile for reuse on site x1.65 (2" minus) 14,850 tns 7.00 103,950 Disposal premium; risk of not selling 50% of rock left 3,350 cy 20.00 67,000 Site Earthwork Fill - reuse processed rock 9,000 cy 12.00 108,000 Fine grading 7,778 sy 2.25 17,501 Access drive to Farm Street 70,000 sf gravel base; 12" thick 2,593 cy 40.00 103,720 asphalt; 4" thick 1,733 tns 120.00 207,960 lf Granite curbing 4,530 42.00 190,260 Patching for utility work 7,915 sf 2.50 19,788 8" CLDI- water lf 3,210 125.00 401,250 Connect to existing - water loc 12,500.00 1 12,500 6" PVC - sewer 1f 800 80.00 64,000 12" HDPE - drainage 1,730 lf 80.00 138,400 24" HDPE - drainage lf 965 110.00 106,150 Subsurface infiltration system - drainage sf 2,100 40.00 84,000 Precast block retaining wall 350 lf 250.00 87,500 Import topsoil; swell 25% 579 cy 60.00 34,740 25,000 sf 0.35 8,750 Irrigation allowance for lawn areas sf 25,000 1.25 31,250 SUBTOTAL. 2,930,619 Pedestrian Paving Concrete paving 4,615 sf gravel base, 8" 115 cy 40.00 4,600 4" concrete paving (sidewalks)  $\operatorname{sf}$ 12.00 55,380 4,615 7' wide ADA ramp 1,285 sf 25.00 32,125 Sloped Walkway sf 16.00 55,840 3,490 Remove existing ramp and rebuild for ADA requirements sf 290 50.00 14,500 Stairs 85 lf 225.00 19,125 Stair handrails lf 40 11,000 275.00 Dumpster/ Equipment pads ls 10,000.00 1 10,000

02-Dec-20

202,570



Bullpen allowance

Irrigation

SUBTOTAL

PSR Wak	Design Opti efield, MA	ions						
PSR	Estimate							
		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SIT	EWORK	OPTION B.2		1 1				
8								
9		Site Furnishings		_				
0		Site furnishings allowance (trash,bench,bike racks etc.)	1	ls	50,000.00	50,000		
1		Pre-K Playground allowance	1	ls	125,000.00	125,000		
2		SUBTOTAL					175,000	
3								
4		Stadium; Synthetic						
5		Synthetic turf football field; brockfil w_sp-17	78,000	sf	8.00	624,000		
6		Sports netting allowance	1	ls	20,000.00	20,000		
7		Football goal posts	1	sets	29,000.00	29,000		
8		Bleachers	954	seats	400.00	381,600		
9		Press box	1	ls	65,000.00	65,000		
0		Press box lift, ADA ramp access to rear of press box	-0.0	loc	50,000.00	NR		
1		Running track pavement; reclaim and repave	58,800	sf	4.50	264,600		
2		Running track surface	6,533	sf	45.00	293,985		
3		Walking track surrounding running track	13,400	sf	5.00	67,000		
5		Turf anchor curb; d-area	400	lf	85.00	34,000		
6		Shot put pad & throwing area	1	ea	30,000.00	30,000		
7		Triple jump/Long jump event	2	ea	25,000.00	50,000		
8		Track fence - assume 4'ht CLF	1,500	lf	50.00	75,000		
9		Fence - assume 4'ht CLF - single gate	3	ea	800.00	2,400		
0		Fence - assume 4'ht CLF - double gate SUBTOTAL	3	ea	1,000.00	3,000	1 000 595	
1		SUBTOTAL					1,939,585	
2		Baseball field; Natural						
3		Natural grass	93,985	sf	2.00	187,970		
4		Skinned infield	10,890	sf	3.00	32,670		
5		Foul poles	2	loc	3,600.00	7,200		
6		Home plates incl. fortification	1	loc	3,500.00	3,500		
7		Pitchers mound/rubber incl. fortification	1	loc	7,500.00	7,500		
8		Bases	1	ls	2,000.00	2,000		
9		Line markings - allowance	1	ls	5,000.00	5,000		
.0		Baseball backstop	1	ea	50,000.00	50,000		
1		Fence - assume 6'ht CLF	840	lf	65.00	54,600		
2		Fence - 6'ht CLF - single gate	3	ea	800.00	2,400		
3		Fence - 6'ht CLF - double gate	1	ea	1,200.00	1,200		
4		Baseball scoreboard	1	loc	25,000.00	25,000		
5		Baseball dugouts	2	ea	20,000.00	40,000		
6		Bullpen allowance	2	ea	10,000.00	20,000		
7		Irrigation	93,985	sf	1.25	117,481		
8		SUBTOTAL					556,521	
9								
0		Softball field; Natural						
1		Infield	11,950	sf	3.00	35,850		
2		Outfield	34,730	sf	2.00	69,460		
3		Warning track	1	ls	10,000.00	10,000		
4		Softball backstop	1	loc	35,000.00	35,000		
5		Softball dugout	2	ea	20,000.00	40,000		
6		Foul poles for softball	2	ea	3,600.00	7,200		
7		Fence - assume 4'ht CLF	795	lf	55.00	43,725		
8		Fence - assume 4'ht CLF - single gate	3	ea	650.00	1,950		
9		Fence - assume 4'ht CLF - double gate	1	ea	1,000.00	1,000		

02-Dec-20

ea

sf

34,730

10,000.00

1.25

20,000

43,413

307,598



PSR Estimate T

	T SK Estilli		1			UNIT	EST'D	SUB	TOTAL
			DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
-60	SITEWO	RK OP	TION B.2						
163			Gita Maralla						
165			Site Walls Precast block retaining wall	400	1f	250.00	100,000		
166			SUBTOTAL	400	11	250.00	100,000	100,000	
167			SCHOTAL					100,000	
168			Landscaping						
169			Import topsoil; swell 25%	5,260	cy	60.00	315,600		
170			Lawn - seed	227,250	sf	0.35	79,538		
171			Trees	69	ea	1,200.00	82,800		
172			Planting allowance including planting soils and mulch	1	ls	250,000.00	250,000		
173			SUBTOTAL					727,938	
174									
175		G30	CIVIL MECHANICAL UTILITIES						
176			Water supply; Pricing includes E&B and bedding						
177			8" CLDI	1,685	lf	125.00	210,625		
178			Gate valves	4	ea	1,500.00	6,000		
179			Connect to existing	1	loc	12,500.00	12,500		
180			FD connection (assume)	1	ea	2,000.00	2,000		
181			Fire hydrant	3	ea	6,500.00	19,500		
182			Thrust blocks	10	ea	850.00	8,500		
183			SUBTOTAL					259,125	
185			Material and the second pricing in dudy FOR and health a						
186			Water supply in road; Pricing includes E&B and bedding  16" Water main work	1.00=	16	195.00	267.005		
187			Gate valves	1,985	lf ea	185.00 5,000.00	367,225 20,000		
188			Connect to existing	4	loc	20,000.00	40,000		
189			Fire hydrant	1	ea	6,500.00	6,500		
190			Thrust blocks	9	ea	1,000.00	9,000		
191			SUBTOTAL			,	3,	442,725	
192									
193			Sanitary; Pricing includes E&B and bedding						
194			4" PVC force main	405	lf	80.00	32,400		
195			6" PVC	680	lf	80.00	54,400		
196			Manholes	3	ea	4,500.00	13,500		
197			Grease trap, 10,000 gal.	1	ea	50,000.00	50,000		
198			Pipe cleaning and relining	3,185	lf	70.00	222,950		
199			Pump station; allowance	1	loc	100,000.00	100,000		
200			SUBTOTAL					473,250	
201			G:						
202			Storm water; Pricing includes E&B and bedding (rock excavation not included)						
203			12" HDPE	3,190	lf	80.00	255,200		
204			24" HDPE	1,180	lf	110.00	129,800		
205			AD	8	ea	3,500.00	28,000		
206			СВ	16	ea	4,200.00	67,200		
207			DMH	12	ea	4,500.00	54,000		
208			WQI	5	ea	14,000.00	70,000		
209			Subsurface infiltration system	46,550	sf	40.00	1,862,000		
210			SUBTOTAL					2,466,200	
211									
212			<u>Gas service</u>						
213			E&B trench for new gas pipe (allow)	2,100	lf	35.00	73,500		
214			SUBTOTAL					73,500	
215 216		G40	ELECTRICAL UTILITIES						
217		G40	<u>Civil</u>						

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PSR Estimate

	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITEW	ORK OPTION B.2						
	Concrete work for duct banks	1,170	lf	35.00	40,950		
	Transformer pad / generator pad	2	ea	2,500.00	5,000		
	Excavation & backfill for duct banks and site lighting	1,170	lf	30.00	35,100		
	Utility co. backcharges, allow				By Owner		
	Power & Communications						
	Primary and communications duct bank	1,170	lf	170.00	198,900		
	Secondary and generator duct bank	100	lf	500.00	50,000		
	Sewage station including feeder	1	ls	70,000.00	70,000		
	Site Lighting						
	Parking/ Roadway area lighting (allow)	257,010	sf	2.50	642,525		
	Walkway lighting	800	lf	20.00	16,000		
	Electric Vehicle Charging Station						
	EVCS provisions only	1	ea	10,000.00	10,000		
	Site Security						
	CCTV surveillance at site	1	ls	100,000.00	100,000		
	Site Demolition						
	Site demolition and make safe	1	ls	10,000.00	10,000		
	SUBTOTAL					1,178,475	
г							
	TOTAL - SITE DEVELOPMENT						\$17,645,2



PSR Design Options Wakefield, MA

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PSR Estimate GFA 380,853

				UNIT	EST'D	SUB	TOTAL
	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
OPTIO	N C1 NEW BUILDING - 1600 STUDENTS	_					

GROSS FLOOR AREA CALCULATION

First Floor 47,883 Second Floor 57,362 Third Floor 135,060 Fourth Floor 92,617

	TOTAL GROSS FLOOR A	REA (GFA)				380,853 sf
A10	FOUNDATIONS					
A1010	STANDARD FOUNDATIONS					
	CONCRETE					
	Strip Footings		1,360	CY		
	Foundation Walls		2,671	CY		
	Spread Footings		2,685	CY		
	Piers		158	CY		
		Total Foundation Concrete	6,874	CY		
	Strip footings					
	Formwork		2,872	sf	14.00	40,208
	Re-bar		14,360	lbs.	1.40	20,104
	Concrete material		168	cy	130.00	21,840
	Placing concrete		168	cy	100.00	16,800
	Foundation walls					
	Formwork		11,488	sf	20.00	229,760
	Re-bar		22,976	lbs.	1.40	32,166
	Concrete material		<b>29</b> 7	cy	130.00	38,610
	Placing concrete		<b>29</b> 7	cy	140.00	41,580
	Form shelf		1,436	lf	10.00	14,360
	Retaining wall footing					
	Formwork		4,380	sf	14.00	61,320
	Re-bar		76,650	lbs.	1.40	107,310
	Concrete material		1,192	cy	130.00	154,960
	Placing concrete		1,192	cy	100.00	119,200
	Retaining wall					
	Formwork		48,840	sf	22.00	1,074,480
	Re-bar		244,200	lbs.	1.40	341,880
	Concrete material		2,374	cy	130.00	308,620
	Placing concrete		2,374	cy	140.00	332,360
	Form shelf		1,628	lf	10.00	16,280
	Spread Footings; 13' x 13' x 2'					
	Formwork		6,032	sf	16.00	96,512
	Re-bar		121,920	lbs.	1.40	170,688
	Concrete material		762	cy	130.00	99,060
	Placing concrete		762	cy	160.00	121,920
	Set anchor bolts grout plates		58	ea	150.00	8,700
	Spread Footings; 12' x 12' x 2'					
	Formwork		7,296	sf	16.00	116,736
	Re-bar		136,160	lbs.	1.40	190,624
	Concrete material		851	cy	130.00	110,630
	Placing concrete		851	cy	160.00	136,160
	Set anchor bolts grout plates		76	ea	150.00	11,400
	Spread Footings; 11' x 11' x 2'					
	Formwork		7,480	sf	16.00	119,680
	Re-bar		128,000	lbs.	1.40	179,200
	Concrete material		800	cy	130.00	104,000
	Placing concrete		800	cy	160.00	128,000
	Set anchor bolts grout plates		85	ea	150.00	12,750
	Spread Footings; 10' x 10' x 2'					



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Vapor barrier

GFA PSR Estimate 380,853

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PSK Estimate		1				GFA	38
	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
OPTION C1	NEW BUILDING - 1600 STUDENTS	1	1				
	Formwork	2,800	sf	16.00	44,800		
	Re-bar	43,520	lbs.	1.40	60,928		
	Concrete material	272	cy	130.00	35,360		
	Placing concrete	272	cy	160.00	43,520		
	Set anchor bolts grout plates	35	ea	150.00	5,250		
	Piers/Pilasters						
	Formwork	6,096	sf	22.00	134,112		
	Re-bar	39,500	lbs	1.40	55,300		
	Concrete material	158	cy	130.00	20,540		
	Placing concrete	158	cy	160.00	25,280		
	Thickened slab at interior load bearing walls	111	cy	350.00	38,850		
0700	01 WATERPROOFING, DAMPPROOFING AND CAULKING						
	Dampproofing at brick shelf	5,744	sf	3.00	NR		
	Waterproofing to retaining wall	24,420	sf	8.00	195,360		
	water probling to retaining wan	24,420	51	8.00	195,300		
07210							
	Insulation	30,164	sf	3.00	90,492		
31200	OO EARTHWORK						
	Strip footings						
	Excavation				w/ lowest slab		
	Remove off site				w/ lowest slab		
	Backfill with selected material				w/ lowest slab		
	Spread footings						
	Excavation				w/ lowest slab		
	Remove off site				w/ lowest slab		
	Backfill with selected material				w/ lowest slab		
	Miscellaneous						
	Gravel fill beneath footings, 12"				w/ lowest slab		
	Perimeter drain	2,531	lf	22.00	55,682		
	Underslab drainage and waterproofing system			Not yet	determined		
	Underslab E&B for plumbing	147,335	sf	1.00	147,335		
	Dewatering for foundation work	1	ls	50,000.00	50,000		
	SUBTOTAL					5,580,707	
A 1 0	220 SPECIAL FOUNDATIONS						
AIU	No work in this section						
	SUBTOTAL					-	
A10	30 LOWEST FLOOR CONSTRUCTION						
	Drilling/matting/blasting						
	At building footprint; includes no credit for selling processed rock	12,300	cy	45.00	553,500		
	To design subgrade of site; includes no credit for selling processed rock	57,700	cy	45.00	w/ site		
	Trench; for utility lines	1,500	cy	65.00	w/ site		
	Rock excavation/hauling to stockpile location	12,300	cy	7.00	86,100		
	Process and stockpile for reuse on site x1.65 (2" minus)	9,075	tns	7.00	w/ site		
	Process and stockpile for reuse to building up levels at building x1.65 (2" minus) - 36,000cy	59,400	tns	7.00	415,800		
	Process and stockpile for reuse within building footprint incl. 12" of structural below SOG x1.65 (2" minus) - 30,000cy	49,500	tns	7.00	346,500		
	Pre split face; for exposed rock slopes; allowance	10,000	sf	9.78	w/ site		
	Building Earthwork						
	Fill below footprint to make up level- reuse processed rock	36,000	cy	12.00	432,000		
	Fill below footprint- reuse processed rock	30,000	cy	12.00	360,000		
	New Slab on grade, 5" thick	147,335	sf		3 7,7		
	Rigid insulation, underslab			0.05	001 504		
	ragiu insulation, unuersian	147,335	sf	2.25	331,504		

147,335

sf

1.00

147,335



PSR Design Options Wakefield, MA

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GFA **PSR** Estimate 380,853

DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
PTION C1 NEW BUILDING - 1600 STUDENTS						
Compact existing sub-grade	147,335	sf	0.50	73,668		
Mesh reinforcing 15% lap	169,435	sf	1.10	186,379		
Concrete - 5" thick; 4,000 psi	2,406	cy	135.00	324,810		
Placing concrete	2,406	cy	45.00	108,270		
Finishing and curing concrete	147,335	sf	2.50	368,338		
Control joints - saw cut	147,335	sf	0.10	14,734		
<u>Miscellaneous</u>						
Elevator pit, 24" mat foundation w/ 12" concre	ete wall 3	ea	35,000.00	105,000		
Loading dock	1	ls	40,000.00	40,000		
Equipment pads	1	ls	15,000.00	15,000		
SUBTOTAL					3,908,938	

TOTAL - FOUNDATIONS \$9,489,645

7,200

10,000

633,795

11,852,882

1.20

0.50

2.50

02-Dec-20

BASEMENT CONSTRUCTION A20

A2010 BASEMENT EXCAVATION

No Work in this section

SUBTOTAL

A2020 BASEMENT WALLS

No Work in this section

SUBTOTAL

TOTAL - BASEMENT CONSTRUCTION

SUPERSTRUCTURE B10 16.66 lbs/sf B1010 FLOOR CONSTRUCTION tns 3,173 Floor Structure - Steel: Steel beams and columns, 15-22#/SF 3,800.00 1,959 tns 7,444,200 Shear studs 46,704 116,760 ea 2.50 Floor Structure 3", 18ga Metal galvanized floor Deck 233,518  $\operatorname{sf}$ 4.00 934,072 WWF reinforcement 268,546 sf295,401 1.10 Concrete fill to metal deck; total depth 5-1/4" light weight 3,973 cy 175.00 695,275 Place and finish concrete sf233,518 3.00 700,554 Rebar to decks 70,055 lbs 1.20 84,066 Misc. angles 233,518 sf 0.50 116,759 **Mezzanine** 1.20 Steel beams and columns, 15#/SF150 tns 3,800.00 570,000 Shear studs 4,000 2.50 10,000 ea 3", 18ga Metal galvanized floor Deck 20,000 sf 4.00 80,000 WWF reinforcement 23,000 sf1.10 25,300 Concrete fill to metal deck; total depth 5-1/4" light weight 59,500 340 cy 175.00 Place and finish concrete 20,000 sf3.00 60,000

253,518 Fire stopping floors ls 10,000.00 10,000

6,000

20,000

lbs

sf

sf

**B1020 ROOF CONSTRUCTION** 

Rebar to decks

Misc. angles

SUBTOTAL

Miscellaneous

Roof Structure - Steel:

Fire proofing to columns and beams



PSR Design Options Wakefield, MA

PSR Estimate GFA 380,853

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SUB

		DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
OPTION C	C1 NEW	BUILDING - 1600 STUDENTS	1	1	<u> </u>			
	St	reel beams and columns at roof, 13-18#/SF	1,214	tns	3,800.00	4,613,200		
	Ro	oof Structure						
	3"	20 Ga. galvanized metal roof deck	162,069	sf	3.50	567,242		
	Pr	remium for acoustic deck at gym, cafeteria, auditorium	46,700	sf	7.00	326,900		
	<u>M</u>	iscellaneous						
	Ro	oof screen support	80	tns	5,000.00	400,000		
	Co	oncrete at mechanical equipment/ vegetated roof	40,000	sf	10.00	400,000		
	In	ntumescent paint	1	ls	50,000.00	50,000		
		ire proofing to columns, beams and deck	115,369	sf	3.00	346,107		
	SU	UBTOTAL					6,703,449	
		TOTAL - SUPERSTRUCTURE						\$18,556,331
								. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
T.	B20 E	XTERIOR CLOSURE	7					
B		XTERIOR WALLS	145,893	sf				
	Ex	xterior Wall Area	96,289	sf				
042	2000 M	ASONRY						
	CI	MU veneer - large format, Arriscraft	14,589	sf	48.00	700,272		
	CI	MU back up	14,589	sf	30.00	437,670		
	St	aging/Lifts to exterior wall	96,289	sf	4.00	385,156		
055	5000 M	USC. METALS						
000		gn at main entrance	1	ls	10,000.00	10,000		
		isc. metals at masonry	29,178	sf	1.50	43,767		
			-9,1/0	01	1.50	70,707		
070	0001 W	VATERPROOFING, DAMPPROOFING AND CAULKING						
		ir barrier	96,289	sf	7.50	722,168		
		ir barrier/flashing at windows	29,179	lf	6.25	182,369		
	M	iscellaneous sealants to closure	96,289	sf	1.00	96,289		
072	2100 TI	HERMAL INSULATION						
	In	sulation	96,289	sf	3.50	337,012		
		T LDDDIG						
076		LADDING		_				
		etal panel	29,179	sf c	75.00	2,188,425		
		igh performance concrete panel	52,521	sf	90.00	4,726,890		
		offit at overhang, including framing oof equipment screen - allow	5,500 10,000	sf sf	90.00 70.00	495,000 700,000		
	K	oo equipment beteen unon	10,000	31	70.00	,00,000		
092	2900 G	YPSUM BOARD ASSEMBLIES						
		' CFMF backup	29,179	sf	12.00	350,148		
	-	ypsum Sheathing	29,179	sf	2.75	80,242		
		rywall lining to interior face of stud backup	29,179	sf	3.50	102,127		
	Fu	urring to inside face of retaining walls	24,420	sf	7.00	170,940		
	SU	UBTOTAL					11,728,475	
_		WYD OLYG						
B		/INDOWS xterior Glazed Area	49,604	sf				
	100		77,004	J1				
061	1000 R	OUGH CARPENTRY						
	W	ood blocking at openings	29,179	lf	12.00	350,148		
070	0001 W	VATERPROOFING, DAMPPROOFING AND CAULKING						
5/0		acker rod & double sealant	29,179	lf	9.00	262,611		
	De	100 & double benuit	-9,1/9	-11	9.00	202,011		



294 295

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C20 STAIRCASES

PSR Estimate GFA 380,853

				UNIT	EST'D	SUB	TOTAL
	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
	EW BUILDING - 1600 STUDENTS						
080001	METAL WINDOWS		c				
	Curtainwall, double glazed	21,884	sf	120.00	2,626,080		
	Storefront, double glazed	21,884	sf	95.00	2,078,980		
	Sunshades; allow	1	ls	200,000.00	200,000		
084500	INSULATED TRANSLUCENT PANELS						
	Translucent wall panels	5,836	sf	90.00	525,240		
	·	0, 0			0 0, 1		
089000	LOUVERS						
	Louvers	250	sf	65.00	16,250		
	SUBTOTAL					6,059,309	
B2030	EXTERIOR DOORS						
	Glazed entrance doors including frame and hardware; double	12	pr	9,000.00	108,000		
	door						
	Glazed entrance doors including frame and hardware; single door	12	ea	4,500.00	54,000		
	HM doors, frames and hardware- Double	6	ea	2,000.00	12,000		
	Overhead doors	8	ea	12,000.00	96,000		
	Backer rod & double sealant	360	lf	9.00	3,240		
	Wood blocking at openings	360	lf	3.00	1,080		
	SUBTOTAL	9		5.22	_,	274,320	
						-/ 430-4	
	TOTAL - EXTERIOR CLOSURE						\$18,062,1
B30	ROOFING						
B3010	ROOF COVERINGS						
-0	PVC membrane system	162,069	sf	22.00	3,565,518		
	Roof edge at membrane roofing	3,971	lf	50.00	198,550		
	Miscellaneous flashings, accessories etc.	162,069	sf	1.00	162,069		
	Perimeter blocking and sealants	162,069	sf	1.50	243,104		
	Allowance for soffits/ overhangs	162,069	sf	3.00	486,207		
	Premium for vegetated roof/patio	30,000	sf	35.00	1,050,000		
	SUBTOTAL					5,705,448	
Ranac	O ROOF OPENINGS						
2,020	Skylights	6,240	sf	150.00	936,000		
	Roof hatch	2	loc	2,500.00	5,000		
	SUBTOTAL					941,000	
	TOTAL - ROOFING						\$6,646,4
<u> </u>							
C10	INTERIOR CONSTRUCTION						
	PARTITIONS	280.950	act	99.00	10 107 006		
•	PARTITIONS  Miscellaneous partitions - glazing, CMU, GWB assemblies, etc.	380,853	gsf	32.00	12,187,296	12 187 206	
	PARTITIONS	380,853	gsf	32.00	12,187,296	12,187,296	
C1010	PARTITIONS  Miscellaneous partitions - glazing, CMU, GWB assemblies, etc. SUBTOTAL  INTERIOR DOORS					12,187,296	
C1010	<ul> <li>PARTITIONS</li> <li>Miscellaneous partitions - glazing, CMU, GWB assemblies, etc.</li> <li>SUBTOTAL</li> <li>INTERIOR DOORS</li> <li>Doors; complete</li> </ul>	380,853 380,853	gsf gsf	32.00 6.00	12,187,296 2,285,118		
C1010	PARTITIONS  Miscellaneous partitions - glazing, CMU, GWB assemblies, etc. SUBTOTAL  INTERIOR DOORS					12,187,296 2,285,118	
C1010	PARTITIONS Miscellaneous partitions - glazing, CMU, GWB assemblies, etc. SUBTOTAL INTERIOR DOORS Doors; complete SUBTOTAL SPECIALTIES / MILLWORK	380,853			2,285,118		
C1010	PARTITIONS Miscellaneous partitions - glazing, CMU, GWB assemblies, etc. SUBTOTAL INTERIOR DOORS Doors; complete SUBTOTAL SPECIALTIES / MILLWORK Specialties					2,285,118	
C1010	PARTITIONS Miscellaneous partitions - glazing, CMU, GWB assemblies, etc. SUBTOTAL INTERIOR DOORS Doors; complete SUBTOTAL SPECIALTIES / MILLWORK	380,853	gsf	6.00	2,285,118		



PSR Estimate GFA 380,853

	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL
TION C1 NE	W BUILDING - 1600 STUDENTS	<u>.</u>		<u>.                                      </u>			
C2010	STAIR CONSTRUCTION						
	Feature stairs @ Student Commons	2	flt	60,000.00	120,000		
	Egress stairs	8	flt	40,000.00	320,000		
	SUBTOTAL					440,000	
	OTTAND DIVINION OF						
C2020	STAIR FINISHES  High performance coating to stairs including all railings etc.	10	flt	3,000.00	30,000		
	Precast terrazzo treads and risers	560	lf	120.00	67,200		
	Rubber tile at stairs - landings	1,000	sf	16.00	16,000		
	g .						
	Rubber tile at stairs - treads & risers SUBTOTAL	1,200	lft	22.00	26,400	100 600	
	SUBTUTAL					139,600	
	TOTAL - STAIRCASES						\$579,
C30	INTERIOR FINISHES						
C3010	WALL FINISHES						
	Wall finishes	380,853	sf	12.00	4,570,236		
	SUBTOTAL					4,570,236	
C3020	FLOOR FINISHES						
-0	Carpet	23,395	sf	5.50	128,673		
	Rubber tile	46,100	sf	12.00	553,200		
	Linoleum tile	175,263	sf	6.00	1,051,578		
	Premium for acoustic cushioning at upper level classrooms	68,450	sf	3.00	205,350		
	Sheet vinyl	15,790	sf	7.00	110,530		
	Ceramic tile	6,100	sf	24.00	146,400		
	Athletic performance wood	12,660	sf	18.00	227,880		
	Vented base	450	lf	8.00	3,600		
	Wood sprung floor	2,980	sf	22.00	65,560		
	Epoxy terrazzo with integral base	24,250	sf	40.00	970,000		
	Poured epoxy with integral base	11,650	sf	16.00	186,400		
	Epoxy paint	24,580	sf	2.50	61,450		
	Resilient base	1,0	ls	50,000.00	50,000		
	Moisture mitigation			<b>3</b> /	NIC		
	SUBTOTAL					3,760,621	
Canan	CEH ING EINIGHEG						
C3030	CEILING FINISHES ACT, 2 x 2	46,100	sf	6.00	276,600		
	ACT, 2 x 2; High NRC	10,675	sf	7.50	80,063		
	ACT, 2 x 4; High NRC	142,658	sf	7.00	998,606		
	GWB; MR	14,130	sf	15.00	211,950		
	GWB soffits, allow	1, 0	ls	350,000.00	350,000		
	Acoustic separation; GWB, resilient hangers, insulation	74,195	sf	22.00	1,632,290		
	Painted structure	99,730	sf	2.00	199,460		
	Specialty ceiling @ cafeteria	12,700	sf	50.00	635,000		
	Vertical blade ceiling w/ ACT grid @ Culinary restaurant	3,000	sf	40.00	120,000		
	Specialty metal ceiling w/ ACT grid @ Cosmetology	6,000	sf	40.00	240,000		
	Premium ACT/GWB @ Media	7,775	sf	25.00	194,375		
	Auditorium clouds	1	ls	150,000.00	150,000		
	SUBTOTAL				•	5,088,344	
	TOTAL - INTERIOR FINISHES						\$13,419
D10	CONVEYING SYSTEMS						
D1010	ELEVATOR						
21010	Elevator; 5 stop	2	ea	300,000.00	600,000		
	Elevator; 3 stop	1	ea	180,000.00	180,000		
	SUBTOTAL			•		780,000	
						,,	
	TOTAL - CONVEYING SYSTEMS						<b>\$780</b> ,



PSR Design Options Wakefield, MA

416

417

418 419

420

421 422

423 424 Clock System allowance provided

Security system allowance provided

TOTAL - ELECTRICAL

SUBTOTAL

SUBTOTAL

PSR Estimate GFA 380,853

02-Dec-20

				UNIT	EST'D	SUB	TOTAL
	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
OPTIO	N C1 NEW RITH DING - 1600 STUDENTS	•	-				

D20	PLUMBING	]					
D20	PLUMBING, GENERALLY	-0-0	c		( (		
	Plumbing	380,853	sf	19.50	7,426,634	T 406 604	
	SUBTOTAL					7,426,634	
	TOTAL - PLUMBING						\$'
D30	HVAC	7					
D30	HVAC, GENERALLY HVAC primarily all electric, air source heat pumps, VRF, and gas fired hot water boiler to pre-heat RTU's SUBTOTAL	380,853	sf	62.00	23,612,886	23,612,886	
	TOTAL - HVAC						\$2
D40	FIRE PROTECTION						
D40	FIRE PROTECTION, GENERALLY Install new service loop, fire pump and branch FP distribution SUBTOTAL	380,853	sf	6.50	2,475,545	2,475,545	
	TOTAL - FIRE PROTECTION						\$
		-					
D50	ELECTRICAL						
	Normal power service & distribution 5000A	380,853	sf	5.00	1,904,265		
	Generator gear and distribution 600KW	380,853	sf	3.50	1,332,986		
	PV rough-in only						
	Equipment wiring	380,853	sf	3.50	1,332,986		
	Lighting, controls and circuitry	380,853	sf	10.00	3,808,530		
	Branch devices and circuitry	380,853	sf	3.50	1,332,986		
	Fire alarm including BDA	380,853	sf	3.50	1,332,986		
	Technology system	380,853	sf	2.00	761,706		
	Theater lighting systems	1	ls	200,000.00	200,000		
	Security system	380,853	sf	1.00	380,853		
	Miscellaneous electrical	380,853	sf	4.00	1,523,412		
	SUBTOTAL					13,910,710	
	Communications cabling and equipment allowance provided	1	ls	1,739,625.00	1,739,625		
	A/V cabling allowance provided	1	ls	104,000.00	104,000		
	IPTV and video pn demand allowance provided	1	ls	360,000.00	360,000		
	Gym A/V allowance provided	1	ls	128,000.00	128,000		
	Auditorium/stage A/V allowance provided	1	ls	148,000.00	148,000		
	Cafeteria/Stage A/V allowance provided	1	ls	148,000.00	148,000		
	Fitness Center A/V allowance provided	1	ls	15,500.00	15,500		
	Weights A/V allowance provided	1	ls	15,500.00	15,500		
	Speech Reinforcement allowance provided	1	ls	244,200.00	244,200		
	Instructional A/V allowance provided	1	ls	650,000.00	650,000		
	PA System allowance provided	1	ls	218,200.00	218,200		
	• • • • • • • • • • • • • • • • • • •	=	-		-,		

Northeast MetroTech PSR 12.2.20 Page 63 PMC - Project Management Cost

ls

ls

126,300.00

1,297,200.00

126,300

1,297,200

3,897,325

1,297,200

\$19,105,235



PSR Design Options Wakefield, MA

	nate		1		*******	rowth	GFA	380
		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
PTION	C1 NE	W BUILDING - 1600 STUDENTS	I	J			l.	
	E10	EQUIPMENT	]					
	E10	EQUIPMENT, GENERALLY Tavares Design, 10.30.2020						
		Food service equipment	1	ls	825,000.00	825,000		
		Basketball backstops	1	ls	27,000.00	27,000		
		Stage curtains and rigging	1	ls	650,000.00	650,000		
		Divider curtains	1	ls	32,000.00	32,000		
		Gym wall padding	1	ls	25,000.00	25,000		
		Telescoping bleachers	1	ls	215,000.00	215,000		
		Automotive refinishing - Booths/Frame Machine	1	ls	325,000.00	325,000		
		Automotive Tech - lifts	1	ls	160,000.00	160,000		
		HVAC/Plumbing - Boilers/Furnaces/Split systems	1	ls	65,000.00	65,000		
		Cosmetology - Wet stations/Manicure/Styling	1	ls	110,000.00	110,000		
		SUBTOTAL					2,434,000	
				,				
		Gymnasium dividing net; electrically operated	1	ls	30,000.00	30,000		
		Volleyball net and standards	1	ls	5,000.00	5,000		
		Wrestling mat lifter	1	ls	12,000.00	12,000		
		Scoreboards and shot clock	1	ls	25,000.00	25,000		
		Ceiling mounted batting cage	1	ls	2,500.00	2,500		
		Culinary equipment - assume part of Food Service above		,		incl		
		Residential appliances	1	ls	50,000.00	50,000		
		Electrically operated projection screens				w/ AV		
		SUBTOTAL					124,500	
		TOTAL - EQUIPMENT						\$2,558,
	E20	FURNISHINGS						
	E2010	FIXED FURNISHINGS						
		Entry mats & frames - recessed with carpet/rubber strips	1,000	sf	55.00	55,000		
		Window treatments including premium for motorized at Cafeteria & Gymnasium	49,604	sf	7.00	347,228		
		Fixed casework and Equipment, Tavares Design, 10.30.2020	1	ls	1,225,000.00	1,225,000		
		Auditorium seating	<b>750</b>	seats	310.00	232,500		
		SUBTOTAL					1,859,728	
	E2020	MOVABLE FURNISHINGS All movable furnishings to be provided and installed by owner						
		SUBTOTAL					NIC	

# F10 SPECIAL CONSTRUCTION

SPECIAL CONSTRUCTION F10

No items in this section

SUBTOTAL

# TOTAL - SPECIAL CONSTRUCTION

### SELECTIVE BUILDING DEMOLITION F20

F2010 BUILDING ELEMENTS DEMOLITION

No items in this section

SUBTOTAL

F2020 HAZARDOUS COMPONENTS ABATEMENT

See main summary for HazMat allowance

SUBTOTAL

See Summary



PSR Estimate GFA 380,853

DESCRIPTION QTY UNIT COST COST TOTAL COST			UNIT	EST'D	SUB	TOTAL
		QTY	COST	COST	TOTAL	COST

OPTION C1 NEW BUILDING - 1600 STUDENTS

489

TOTAL - SELECTIVE BUILDING DEMOLITION

SUBTOTAL OPTION C1 \$141,900,669





# PSR Estimate

	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL
VORK O	PTION C1					
G	SITEWORK	1,145,000	sf	Affected site area	l	
G10	SITE PREPARATION & DEMOLITION					
010	Site construction fence/barricades	4,770	lf	16.00	76,320	
	Site construction fence gates and construction entrance	4,7/0	ea	10,000.00	20,000	
	Police details/road closures/phasing for utility work	1	ls	125,000.00	125,000	
	Pavement/curbing removal - breakhart trail	7,355	sf sf	1.25	9,194	
	Pavement/curbing removal-site	295,000		1.25	368,750	
	Pavement/curbing removal- utility work in road	40,300	sf	1.25	50,375	
	Clear trees, remove all stumps etc allow  Construction laydown area	2	acre ls	8,000.00 10,000.00	16,000 10,000	
	Miscellaneous demolition including utilities	1	ls	200,000.00	200,000	
		1	ls			
	Temporary enabling - parking, electrical	1	15	150,000.00	150,000	1 005 600
	SUBTOTAL					1,025,639
	Earthwork					
	Pre-blast survey	1	ls	100,000.00	100,000	
	Topsoil handling					
	Strip topsoil and forest organics and remove off-site	13,000	cy	16.00	208,000	
	Drilling/matting/blasting		-			
	At building footprint; includes no credit for selling processed rock	12,300	cy	45.00	w/ building	
	To design subgrade of site; includes no credit for selling processed rock	57,700	cy	45.00	2,596,500	
	Trench; for utility lines	1,500	cy	65.00	97,500	
	Rock excavation/hauling to stockpile location	59,200	cy	7.00	414,400	
	Process and stockpile for reuse on site x1.65 (2" minus)	9,075	tns	7.00	63,525	
	Process and stockpile for reuse to building up levels at building x1.65 (2" minus) - 36,000cy	59,400	tns	7.00	w/ building	
	Process and stockpile for reuse within building footprint incl. 12" of structural below SOG x1.65 (2" minus) - 30,000cy	49,500	tns	7.00	w/ building	
	Pre split face; for exposed rock slopes; allowance	10,000	sf	9.78	97,800	
	Building Earthwork					
	Fill below footprint to make up level- reuse processed rock	36,000	cy	12.00	w/ building	
	Fill below footprint- reuse processed rock	30,000	cy	12.00	w/ building	
	Site Earthwork					
	Fill - reuse processed rock	5,500	cy	12.00	66,000	
	Fill - import common fill; swell 25%	60,625	cy	23.00	1,394,375	
	Groundwater management/ control measures	5	mths	20,000.00	100,000	
	Fine grading	71,571	sy	2.25	161,035	
	Hazardous Waste Remediation					
	Remove existing underground fuel storage tanks				assume not requ	
	Dispose/treat contaminated soils				assume not requ	ired
	Erosion Control					
	Silt fence/erosion control, wash bays, stock piles	4,770	lf	12.00	57,240	
	Inlet protection; allow	20	ea	250.00	5,000	
	Slope protection; allow	1	ls	25,000.00	25,000	
	Tree protection; allow	500	lf	10.00	5,000	
	Wheel wash stations	1	ls	15,000.00	15,000	
	Silt fence maintenance and monitoring	1	ls	30,000.00	30,000	
	SUBTOTAL					5,436,375
G20	SITE IMPROVEMENTS					
J <b>=</b> J	Asphalt Paving: parking lot and roadway	253,400	sf			
	gravel base; 12" thick	9,385	cy	40.00	375,400	
	asphalt; 4" thick			120.00		
	aspiran, 4 tinex	6,272	tns	120.00	752,640	



PSR Design Options Wakefield, MA

PSR Estimate

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UNIT EST'D SUB TOTAL DESCRIPTION QTY UNIT COST COST TOTAL COST SITEWORK OPTION C1 Granite curbing 12,805 lf 42.00 537,810 Parking lines 439 spc 85.00 37,315 Access drive for maintenance of fields sf 2,595 gravel base; 12" thick 96 cy 40.00 3,840 asphalt; 4" thick 120.00 7,680 64 tns Patching for utility work sf 40,305 2.50 100,763 Other road markings ls 10,000.00 10,000 HC curb cuts - allow 15 loc 850.00 12,750 SUBTOTAL 1,838,198 Pedestrian Paving Concrete walks 3,365 sf gravel base, 8" 84 cy 40.00 3,360 4" concrete paving (sidewalks) 3,365 sf 12.00 40,380 Dumpster/ Equipment pads 1 ls 10,000.00 10,000 Building access plaza 1 ls 250,000.00 250,000 SUBTOTAL 303,740 Intersection Work Traffic Signal and intersection work 1,500,000.00 1,500,000 SUBTOTAL 1,500,000 Farm Street Access Site construction fence/barricades lf 4,000 16.00 64,000 Site construction fence gates and construction entrance ea 10,000.00 10,000 1f Silt fence/erosion control 4,000 12.00 48,000 Clear trees, remove all stumps etc. - allow 2 acre 8,000.00 16,000 Miscellaneous demolition including utilities 1 ls 50,000.00 50,000 Topsoil handling Strip topsoil and forest organics and remove off-site; allow 4,500 16.00 72,000 cy Earthwork To design subgrade of site; includes no credit for selling processed 45.00 15,700 cv 706,500 rock Trench; for utility lines 500 cy 65.00 32,500 Rock excavation/hauling to stockpile location 20,700 cy 7.00 144,900 Process and stockpile for reuse on site x1.65 (2" minus) 14,850 tns 7.00 103,950 Disposal premium; risk of not selling 50% of rock left 3,350 cy 20.00 67,000 Site Earthwork Fill - reuse processed rock 9,000 cy 12.00 108,000 Fine grading 7,778 sy 2.25 17,501 Access drive to Farm Street 70,000 sf gravel base; 12" thick 2,593 40.00 103,720 cy asphalt; 4" thick 1,733 tns 120.00 207,960 Granite curbing 4,530 lf 42.00 190,260 Patching for utility work sf 19,788 7,915 2.50 8" CLDI- water 1f 3,210 125.00 401,250 Connect to existing - water loc 12,500.00 12,500 6" PVC - sewer 800 lf 80.00 64,000 12" HDPE - drainage 1,730 lf 80.00 138,400 24" HDPE - drainage 965 lf 110.00 106,150 Subsurface infiltration system - drainage 2,100 sf 40.00 84,000 Precast block retaining wall 350 250.00 87,500 Import topsoil; swell 25% 60.00 579 cv 34,740 Lawn - seed 25,000 sf 0.35 8,750 Irrigation allowance for lawn areas 25,000 sf 1.25 31,250



Soccer field; Synthetic

PSR Estimate

PSK Estimate						
	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL
SITEWORE	OPTION C1	1		i		
	SUBTOTAL					2,930,619
	Site Furnishings					
	Site furnishings allowance (trash,bench,bike racks etc.)	1	ls	50,000.00	50,000	
	Pre-K Playground allowance	1	ls	125,000.00	125,000	
	SUBTOTAL					175,000
						, 0,
	Stadium; Synthetic					
	Synthetic turf football field; brockfil w_sp-17	78,000	sf	8.00	624,000	
	Sports netting allowance	1	ls	20,000.00	20,000	
	Football goal posts	1	sets	29,000.00	29,000	
	Bleachers	954	seats	400.00	381,600	
	Press box	1	ls	65,000.00	65,000	
	Press box lift	1	loc	50,000.00	50,000	
	Running track pavement; reclaim and repave	58,800	sf	4.50	264,600	
	Running track surface	6,533	sf	45.00	293,985	
	Walking track surrounding running track	13,400	sf	5.00	67,000	
	Turf anchor curb; d-area	400	lf	85.00	34,000	
	Shot put pad & throwing area	1	ea	30,000.00	30,000	
	Triple jump/Long jump event	2	ea	25,000.00	50,000	
	Track fence - assume 4'ht CLF	1,500	lf	50.00	75,000	
	Fence - assume 4'ht CLF - single gate	3	ea	800.00	2,400	
	Fence - assume 4'ht CLF - double gate	3	ea	1,000.00	3,000	
	SUBTOTAL	3		2,000.00	3,	1,989,585
						75 - 570 - 0
	Baseball field; Natural Renovation					
	Amend natural grass; allowance to re-seed/repair	93,985	sf	0.75	70,489	
	Skinned infield	10,890	sf	3.00	32,670	
	Foul poles	2	loc	3,600.00	7,200	
	Home plates incl. fortification	1	loc	3,500.00	3,500	
	Pitchers mound/rubber incl. fortification	1	loc	7,500.00	7,500	
	Bases	1	ls	2,000.00	2,000	
	Line markings - allowance	1	ls	5,000.00	5,000	
	Baseball backstop -per narrative	1	ea	50,000.00	50,000	
	Fence - assume 4'ht CLF with safety cap	840	lf	55.00	46,200	
	Fence - assume 4'ht CLF - single gate	3	ea	650.00	1,950	
	Fence - assume 4'ht CLF - double gate	1	ea	1,000.00	1,000	
	Baseball scoreboard	1	loc	25,000.00	25,000	
	Baseball dugouts	2	ea	20,000.00	40,000	
	Bullpen allowance	2	ea	10,000.00	20,000	
	Irrigation	93,985	sf	1.25	117,481	
	SUBTOTAL					429,990
	Softball field; Synthetic					
	Synthetic turf softball field; brockfil w_sp-17	49,400	sf	8.00	395,200	
	Turf anchor curb	900	lf	85.00	76,500	
	Softball backstop	1	ls	35,000.00	35,000	
	Softball dugout	2	ea	20,000.00	40,000	
	Foul poles	2	ea	3,600.00	7,200	
	Fence - assume 4'ht CLF with safety cap	1,090	lf	55.00	59,950	
	Fence - assume 4'ht CLF - single gate	3	ea	650.00	1,950	
	Fence - assume 4'ht CLF - double gate	1	ea	1,000.00	1,000	
	SUBTOTAL	•		-,500.00	2,000	616,800
						,00
	Coosen field, Conthetic					



PSR Estimate

		DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
	SITEWORK OF	PTION C1						
163		Synthetic turf at soccer field	80,300	sf	8.00	642,400		
164		Turf anchor curbing	1,180	lf	85.00	100,300		
165		Soccer goals	2	ea	12,500.00	25,000		
166		Soccer/softball scoreboard	1	loc	25,000.00	25,000		
167		SUBTOTAL					792,700	
168								
169		Site Walls						
170		Precast block retaining wall	765	lf	250.00	191,250		
171		SUBTOTAL					191,250	
172								
173		Landscaping						
174		Import topsoil; swell 25%	6,121	cy	60.00	367,260		
175		Lawn - seed	264,420	sf	0.35	92,547		
176		Trees	119	ea	1,200.00	142,800		
177		Planting allowance including planting soils and mulch	1	ls	250,000.00	250,000		
178		Irrigation	264,420	sf	1.25	330,525		
179		SUBTOTAL					1,183,132	
180								
181	G30	CIVIL MECHANICAL UTILITIES						
182		Water supply; Pricing includes E&B and bedding						
183		8" CLDI	3,325	lf	125.00	415,625		
184		Gate valves; allow	4	ea	1,500.00	6,000		
185		Connect to existing; allow	2	loc	12,500.00	25,000		
186		FD connection (assume)	1	ea	2,000.00	2,000		
187		Fire hydrant	12	ea	6,500.00	78,000		
188		Thrust blocks; allow	5	ea	850.00	4,250		
189		SUBTOTAL					530,875	
190								
191		Water supply in road; Pricing includes E&B and bedding		10		_		
192		16" Water main work	1,985	lf	185.00	367,225		
193		Gate valves	4	ea	5,000.00	20,000		
195		Connect to existing Fire hydrant	2	loc	20,000.00	40,000		
196		Thrust blocks	1	ea	6,500.00 1,000.00	6,500 9,000		
197		SUBTOTAL	9	ea	1,000.00	9,000	442,725	
198		SOBIOTAL					442,/23	
199		Sanitary; Pricing includes E&B and bedding						
200		6" PVC	850	lf	80.00	68,000		
201		Manholes	5	ea	4,500.00	22,500		
202		Grease trap, 10,000 gal.	1	ea	50,000.00	50,000		
203		Pipe cleaning and relining	678	lf	100.00	67,800		
204		SUBTOTAL	,				208,300	
205								
206		Storm water; Pricing includes E&B and bedding						
207		12" HDPE	3,665	lf	80.00	293,200		
208		24" HDPE	1,320	lf	110.00	145,200		
209		AD	10	ea	3,500.00	35,000		
210		CB	40	ea	4,200.00	168,000		
211		DMH	30	ea	4,500.00	135,000		
212		WQI	6	ea	12,000.00	72,000		
213		Stadium field drainage allowance; includes track drains	1	ls	175,000.00	175,000		
214		Softball field drainage allowance	1	ls	100,000.00	100,000		
215		Soccer field drainage allowance	1	ls	100,000.00	100,000		
216		Subsurface infiltration system	47,700	sf	40.00	1,908,000		
217		SUBTOTAL					3,131,400	

UNIT

EST'D

SUB

02-Dec-20

TOTAL



TOTAL - SITE DEVELOPMENT

PSR Estimate

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		DECORPTION	OTTV	TIME TO SERVE	UNIT	EST'D	SUB	TOTAL
		DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
218	SITEWORK OF	TION C1						
219		Gas service						
220		E&B trench for new gas pipe	2,100	lf	35.00	73,500		
221		SUBTOTAL					73,500	
222								
223 224	G40	ELECTRICAL UTILITIES Civil						
225		Concrete work for duct banks	1,350	lf	35.00	47,250		
226		Transformer pad / generator pad	2	ea	2,500.00	5,000		
227		Excavation & backfill for duct banks	1,350	lf	30.00	40,500		
228		Utility co. backcharges, allow	700		=	By Owner		
229		Power & Communications						
230		Primary and communications duct bank	1,350	lf	170.00	229,500		
231		Secondary and generator duct bank	100	lf	500.00	50,000		
232		Electrical to maintenance Building	1	ls	50,000.00	50,000		
233		Site Lighting						
234		Parking/ Roadway area lighting (allow)	255,995	sf	2.50	639,988		
235		Walkway lighting	320	lf	20.00	6,400		
236		Athletic field lighting; Soccer field	1	ls	450,000.00	450,000		
237		Athletic field lighting; Softball field	1	ls	270,000.00	270,000		
238		Score board including feeders	2	ea	100,000.00	200,000		
239		Electric Vehicle Charging Station						
240		EVCS provisions only	1	ea	10,000.00	10,000		
241		Site Security						
242		CCTV surveillance at site	1	ls	100,000.00	100,000		
243		Site Demolition						
244		Site demolition and make safe	1	ls	10,000.00	10,000		
245		SUBTOTAL					2,108,638	

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\$24,908,466

Northeast MetroTech PSR 12.2.20 Page 70 PMC - Project Management Cost



PSR Design Options Wakefield, MA

**PSR Estimate** GFA 380,853

			UNIT	EST'D	SUB	TOTAL
DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

# OPTION C2 NEW BUILDING - 1600 STUDENTS

# GROSS FLOOR AREA CALCULATION

 First Floor
 76,917

 Second Floor
 96,128

 Third Floor
 149,406

 Fourth Floor
 58,402

150.00

16.00

**73** 

6,240

ea

sf

10,950

99,840

PMC - Project Management Cost

	TOTAL GROSS FLOOR A	REA (GFA)			380,853
A10	FOUNDATIONS				
A1010	STANDARD FOUNDATIONS				
033000	CONCRETE				
	Strip Footings	1,20	2 CY		
	Foundation Walls	1,76	) CY		
	Spread Footings	3,03	3 CY		
	Piers	19	3 CY		
		Total Foundation Concrete 6,19	3 CY		
	Strip footings				
	Formwork	5,91	<b>s</b> f	14.00	82,852
	Re-bar	29,59		1.40	41,426
	Concrete material	34		130.00	44,850
	Placing concrete	34		100.00	34,500
	Foundation walls	04	-,		04,000
	Formwork	23,67	2 sf	20.00	473,440
	Re-bar	47,34		1.40	66,282
	Concrete material	61		130.00	79,560
	Placing concrete	61	•	140.00	85,680
	Form shelf	2,95		10.00	29,590
	Retaining wall footing	2,93	9 11	10.00	29,390
	Formwork	0.14	8 sf	14.00	44.070
	Re-bar	3,14		14.00	44,072
		55,09		1.40	77,126
	Concrete material	85		130.00	111,410
	Placing concrete	85	7 cy	100.00	85,700
	Retaining wall	(	- c		
	Formwork	23,61		22.00	519,420
	Re-bar	118,05		1.40	165,270
	Concrete material	1,14		130.00	149,240
	Placing concrete	1,14	-	140.00	160,720
	Form shelf	78	7 lf	10.00	7,870
	Spread Footings; 13' x 13' x 2'				
	Formwork	3,12		16.00	49,920
	Re-bar	63,04		1.40	88,256
	Concrete material	39	-	130.00	51,220
	Placing concrete	39	<b>4</b> cy	160.00	63,040
	Set anchor bolts grout plates	3	o ea	150.00	4,500
	Spread Footings; 12' x 12' x 2'				
	Formwork	9,40		16.00	150,528
	Re-bar	175,68	o lbs.	1.40	245,952
	Concrete material	1,09	<b>3</b> cy	130.00	142,740
	Placing concrete	1,09	<b>3</b> cy	160.00	175,680
	Set anchor bolts grout plates	9	<b>8</b> ea	150.00	14,700
	Spread Footings; 11' x 11' x 2'				
	Formwork	6,42	<b>4</b> sf	16.00	102,784
	Re-bar	109,92	b lbs.	1.40	153,888
	Concrete material	68	7 cy	130.00	89,310
	Placing concrete	68		160.00	109,920
	0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				

Set anchor bolts grout plates

Spread Footings; 10' x 10' x 2'

Formwork

61

62



PSR Estimate GFA 380,853

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					UNIT	EST'D	SUB	TOTAL
		DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
	OPTION C2 NI	EW BUILDING - 1600 STUDENTS						
63		Re-bar	97,120	lbs.	1.40	135,968		
64		Concrete material	607	cy	130.00	78,910		
65		Placing concrete	607	cy	160.00	97,120		
66		Set anchor bolts grout plates	78	ea	150.00	11,700		
67		Spread Footings; 9' x 9' x 2'						
68		Formwork	2,880	sf	16.00	46,080		
69		Re-bar	40,320	lbs.	1.40	56,448		
70		Concrete material	252	cy	130.00	32,760		
71		Placing concrete	252	cy	160.00	40,320		
72		Set anchor bolts grout plates	40	ea	150.00	6,000		
73		Piers/Pilasters						
74		Formwork	7,656	sf	22.00	168,432		
75		Re-bar	49,500	lbs	1.40	69,300		
76		Concrete material	198	cy	130.00	25,740		
77		Placing concrete	198	cy	160.00	31,680		
78		Thickened slab at interior load bearing walls	111	cy	350.00	38,850		
79								
80	070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
81		Dampproofing at brick shelf	11,836	sf	3.00	NR		
82		Waterproofing to retaining wall	11,805	sf	8.00	94,440		
83 84		WANDALL DAWN AWAY						
	072100	THERMAL INSULATION						
85		Insulation	23,641	sf	3.00	70,923		
86 87	312000	EARTHWORK						
88	312000							
		Strip footings						
89		Excavation				w/ lowest slab		
90		Remove off site				w/ lowest slab		
91		Backfill with selected material				w/ lowest slab		
92		Spread footings						
93		Excavation				w/ lowest slab		
94		Remove off site				w/ lowest slab		
95		Backfill with selected material				w/ lowest slab		
96		Miscellaneous						
97		Gravel fill beneath footings, 12"				w/ lowest slab		
98		Perimeter drain	3,746	lf	22.00	82,412		
99		Underslab drainage and waterproofing system			Not yet	determined		
100		Underslab E&B for plumbing	183,800	sf	1.00	183,800		
101		Dewatering for foundation work	1	ls	50,000.00	50,000		
102		SUBTOTAL					5,133,119	
103								
104	A1020	SPECIAL FOUNDATIONS						
105		No work in this section						
106		SUBTOTAL					-	
107								
108	A1030	LOWEST FLOOR CONSTRUCTION						
109		Drilling/matting/blasting						
110		At building footprint; includes no credit for selling processed	39,600	cy	45.00	1,782,000		
		rock						
111		To design subgrade of site; includes no credit for selling	42,100	cy	45.00	w/ site		
		processed rock						
112		Trench; for utility lines	1,500	cy	65.00	w/ site		

09	Drilling/matting/blasting					
10	At building footprint; includes no credit for selling processed rock	39,600	cy	45.00	1,782,000	
1	To design subgrade of site; includes no credit for selling processed rock	42,100	cy	45.00	w/ site	
12	Trench; for utility lines	1,500	cy	65.00	w/ site	
13	Rock excavation/hauling to stockpile location	39,600	cy	7.00	277,200	
14	Process and stockpile for reuse on site x1.65 (2" minus)	70,125	tns	7.00	w/ site	
15	Process and stockpile for reuse within building footprint incl. 12" of structural below SOG x1.65 (2" minus) - 39,200cy	64,680	tns	7.00	452,760	
16	Pre split face; for exposed rock slopes; allowance	10,000	sf	9.78	w/ site	
17	Building Earthwork					
18	Fill below footprint- reuse processed rock	39,200	cy	12.00	470,400	
19	New Slab on grade, 5" thick	183,800	sf			
20	Rigid insulation, underslab	183,800	sf	2.25	413,550	



PSR Design Options Wakefield, MA

PSR Estimate GFA 380,853

Vaj Cor Me Cor Pla Fin Cor	DESCRIPTION  BUILDING - 1600 STUDENTS  por barrier  mpact existing sub-grade  esh reinforcing 15% lap  ncrete - 5" thick; 4,000 psi  cing concrete  nishing and curing concrete  ntrol joints - saw cut	183,800 183,800 211,370 3,002 3,002 183,800	sf sf sf cy cy	1.00 0.50 1.10 135.00	183,800 91,900 232,507 405,270	TOTAL	COST
Vaj Cor Me Cor Pla Fin Cor	por barrier mpact existing sub-grade ush reinforcing 15% lap ncrete - 5" thick; 4,000 psi cing concrete uishing and curing concrete	183,800 211,370 3,002 3,002	sf sf cy	0.50 1.10 135.00	91,900 232,507		
Coo Me Coo Pla Fin	mpact existing sub-grade ush reinforcing 15% lap ncrete - 5" thick; 4,000 psi cing concrete uishing and curing concrete	183,800 211,370 3,002 3,002	sf sf cy	0.50 1.10 135.00	91,900 232,507		
Me Coo Pla Fin Coo	sh reinforcing 15% lap ncrete - 5" thick; 4,000 psi cing concrete nishing and curing concrete	211,370 3,002 3,002	sf cy	1.10 135.00	232,507		
Cor Pla Fin Cor	ncrete - 5" thick; 4,000 psi cing concrete uishing and curing concrete	3,002 3,002	cy	135.00			
Pla Fin Cor	cing concrete uishing and curing concrete	3,002			405,270		
Fin Cor	uishing and curing concrete	•	cy	45.00			
Con	o o	183,800		45.00	135,090		
	ntrol joints - saw cut		sf	2.50	459,500		
Cor	atronjonno sam car	183,800	sf	0.10	18,380		
<u>C0</u>	urtyard Slab on grade, 5" thick	4,400	sf				
Rig	gid insulation, underslab	4,400	sf	2.25	9,900		
Vaj	por barrier	4,400	sf	1.00	4,400		
Con	mpact existing sub-grade	4,400	sf	0.50	2,200		
Me	sh reinforcing 15% lap	5,060	sf	1.10	5,566		
Con	ncrete - 5" thick; 4,000 psi	72	cy	135.00	9,720		
Pla	cing concrete	72	cy	45.00	3,240		
Fin	nishing and curing concrete	4,400	sf	2.50	11,000		
Con	ntrol joints - saw cut	4,400	sf	0.10	440		
Mis	scellaneous						
Ele	evator pit, 24" mat foundation w/ 12" concrete wall	2	ea	35,000.00	70,000		
Loa	ading dock	1	ls	40,000.00	40,000		
Eq	uipment pads	1	ls	15,000.00	15,000		
SU	BTOTAL					5,093,823	

A20 BASEMENT CONSTRUCTION

A2010 BASEMENT EXCAVATION

No Work in this section

SUBTOTAL

A2020 BASEMENT WALLS

No Work in this section

 ${\bf SUBTOTAL}$ 

#### TOTAL - BASEMENT CONSTRUCTION

B10	SUPERSTRUCTURE	1			
		16.47	lbs/sf		
B1010	FLOOR CONSTRUCTION	3,137	tns		
	Floor Structure - Steel:				
	Steel beams and columns, 15#/SF	1,478	tns	3,800.00	5,616,400
	Shear studs	39,411	ea	2.50	98,528
	Floor Structure				
	3", 18ga Metal galvanized floor Deck	197,053	sf	4.00	788,212
	WWF reinforcement	226,611	sf	1.10	249,272
	Concrete fill to metal deck; total depth 5-1/4" light weight	3,353	cy	175.00	586,775
	Place and finish concrete	197,053	sf	3.00	591,159
	Rebar to decks	59,116	lbs	1.20	70,939
	Misc. angles	197,053	sf	0.50	98,527
	<u>Mezzanine</u>			1.20	
	Steel beams and columns, 15#/SF	150	tns	3,800.00	570,000
	Shear studs	4,000	ea	2.50	10,000
	3", 18ga Metal galvanized floor Deck	20,000	sf	4.00	80,000
	WWF reinforcement	23,000	sf	1.10	25,300
	Concrete fill to metal deck; total depth 5-1/4" light weight	340	cy	175.00	59,500

PMC - Project Management Cost



PSR Estimate GFA 380,853

							GIII	300,0
					UNIT	EST'D	SUB	TOTAL
		DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
OF	TION C2 NI	EW BUILDING - 1600 STUDENTS						
		Place and finish concrete	20,000	sf	3.00	60,000		
		Rebar to decks	6,000	lbs	1.20	7,200		
		Misc. angles	20,000	sf	0.50	10,000		
		Miscellaneous						
		Fire proofing to columns and beams	217,053	sf	2.50	542,633		
		Fire stopping floors	1	ls	10,000.00	10,000		
		SUBTOTAL					9,474,445	
	B1020	ROOF CONSTRUCTION						
		Roof Structure - Steel:						
		Steel beams and columns at roof, 13-22#/SF	1,659	tns	3,800.00	6,304,200		
		Roof Structure						
		3" 20 Ga. galvanized metal roof deck	202,180	sf	3.50	707,630		
		Premium for acoustic deck at gym, cafeteria, auditorium	28,000	sf	7.00	196,000		
		Miscellaneous						
		Roof screen support	80	tns	5,000.00	400,000		
		Concrete at mechanical equipment/ vegetated roof	16,000	sf	10.00	160,000		
		Intumescent paint	1	ls	50,000.00	50,000		
		Fire proofing to columns, beams and deck	174,180	sf	3.00	522,540		
		SUBTOTAL					8,340,370	
		TOTAL - SUPERSTRUCTURE						\$17,814,8

B20	EXTERIOR CLOSURE	$\neg$			
B2010	EXTERIOR WALLS Exterior Wall Area	<b>136,928</b> 90,373	sf sf		
042000	MASONRY				
	CMU veneer - large format, Arriscraft	13,693	sf	48.00	657,264
	CMU back up	13,693	sf	30.00	410,790
	Staging/Lifts to exterior wall	90,373	sf	4.00	361,492
055000	MISC. METALS				
	Sign at main entrance	1	ls	10,000.00	10,000
	Misc. metals at masonry	27,386	sf	1.50	41,079
070001	WATERPROOFING, DAMPPROOFING AND CAULKING				
	Air barrier	90,373	sf	7.50	677,798
	Air barrier/flashing at windows	27,385	lf	6.25	171,156
	Miscellaneous sealants to closure	90,373	sf	1.00	90,373
072100	THERMAL INSULATION				
	Insulation	90,373	sf	3.50	316,306
076400	CLADDING				
	Metal panel	27,386	sf	75.00	2,053,950
	High performance concrete panel	49,294	sf	90.00	4,436,460
	Soffit at overhang, including framing				NIC
	Roof equipment screen - allow	10,000	sf	70.00	700,000
092900	GYPSUM BOARD ASSEMBLIES				
	6" CFMF backup	27,386	sf	12.00	328,632
	Gypsum Sheathing	27,386	sf	2.75	75,312
	Drywall lining to interior face of stud backup	27,386	sf	3.50	95,851
	Furring to inside face of retaining walls	11,805	sf	7.00	82,635



PSR Estimate GFA 380,853

						UNIT	EST'D	SUB	TOTAL
			DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
	OPTIO	N C2 NE	W BUILDING - 1600 STUDENTS						
236			SUBTOTAL					10,509,098	
237 238		Ranan	WINDOWS						
239		D2020	Exterior Glazed Area	46,555	sf				
240									
241	,	061000	ROUGH CARPENTRY						
242			Wood blocking at openings	27,385	lf	12.00	328,620		
243 244		070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
245			Backer rod & double sealant	27,385	lf	9.00	246,465		
246				,,,,		Ź	. ,		
247		080001	METAL WINDOWS						
248			Curtainwall, double glazed	20,539	sf	120.00	2,464,680		
249			Storefront, double glazed	20,539	sf	95.00	1,951,205		
250			Sunshades; allow	1	ls	200,000.00	200,000		
251 252		084500	INSULATED TRANSLUCENT PANELS						
253		-	Translucent wall panels	5,477	sf	90.00	492,930		
254				3/1//		77	., ,,,,,		
255		089000	LOUVERS						
256			Louvers	250	sf	65.00	16,250		
257			SUBTOTAL					5,700,150	
258 259		B2030	EXTERIOR DOORS						
260			Glazed entrance doors including frame and hardware; double door	12	pr	9,000.00	108,000		
261			Glazed entrance doors including frame and hardware; single door	12	ea	4,500.00	54,000		
262			HM doors, frames and hardware- Double	6	ea	2,000.00	12,000		
263			Overhead doors	8	ea	12,000.00	96,000		
264			Backer rod & double sealant	360	lf	9.00	3,240		
265			Wood blocking at openings	360	lf	3.00	1,080		
266			SUBTOTAL					274,320	
267 268	Г		TOTAL - EXTERIOR CLOSURE						\$16,483,568
269	L		TOTAL - EXTERIOR CEOSCRE						ψ10,403,300
270	-			7					
271 272		Взо	ROOFING						
273		B3010	ROOF COVERINGS						
274			PVC membrane system	202,180	sf	22.00	4,447,960		
275			Roof edge at membrane roofing	3,845	lf	50.00	192,250		
276			Miscellaneous flashings, accessories etc.	202,180	sf	1.00	202,180		
277			Perimeter blocking and sealants	202,180	sf	1.50	303,270		
278			Allowance for soffits/ overhangs	202,180	sf	3.00	606,540		
279			Premium for vegetated roof/patio	6,000	sf	35.00	210,000		
280 281			SUBTOTAL					5,962,200	
282		B3020	ROOF OPENINGS						
283			Skylights	6,240	sf	150.00	936,000		
284			Roof hatch	2	loc	2,500.00	5,000		
285 286			SUBTOTAL					941,000	
287			TOTAL - ROOFING						\$6,903,200
288 289	_					. <u></u>	<u> </u>		
290	[	C10	INTERIOR CONSTRUCTION	]					
291 292	_	C1010	PARTITIONS						
293		01010	Miscellaneous partitions - glazing, CMU, GWB assemblies, etc.	380,853	gsf	32.00	12,187,296		
294			SUBTOTAL	J~~,~JJ	951	32.00	,,,	12,187,296	
295		_							
296		C1020	INTERIOR DOORS						



PSR Design Options Wakefield, MA

02-Dec-20

Estimate						GFA	380,853
	DESCRIPTION	OTN	UNIT	UNIT	EST'D	SUB	TOTAL
ION C N	DESCRIPTION  WE NOT THE CONTROL OF T	QTY	UNIT	COST	COST	TOTAL	COST
ION C2 NE	W BUILDING - 1600 STUDENTS  Doors; complete	380,853	gsf	6.00	2,285,118		
	SUBTOTAL	300,053	gsı	0.00	2,265,116	2,285,118	
						2,205,110	
C1030	SPECIALTIES / MILLWORK		c		0.6		
	Specialties	380,853	gsf	7.50	2,856,398		
	SUBTOTAL					2,856,398	
	TOTAL - INTERIOR CONSTRUCTION						\$17,328,812
							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
C20	STAIRCASES						
C20	STAIRCASES						
C2010	STAIR CONSTRUCTION		_				
	Feature stairs, 1-3	2	flt	75,000.00	150,000		
	Feature stairs, 1-2	1	flt	60,000.00	60,000		
	Egress stairs	8	flt	40,000.00	320,000		
	SUBTOTAL					530,000	
Canan	STAIR FINISHES						
02020	High performance coating to stairs including all railings etc.	11	flt	3,000.00	33,000		
	Precast terrazzo treads and risers	840	lf	120.00	100,800		
	Rubber tile at stairs - landings	1,100	sf	16.00	17,600		
	Rubber tile at stairs - treads & risers	1,650	lft	22.00	36,300		
	SUBTOTAL	, . 0			0-70	187,700	
						,,,	
	TOTAL - STAIRCASES						\$717,70
	NAMES AND	_					
Сзо	INTERIOR FINISHES						
C3010	WALL FINISHES Wall finishes	000 0=0	o <b>f</b>	10.00	4.550.006		
	SUBTOTAL	380,853	sf	12.00	4,570,236	4.550.006	
	SUBTUTAL					4,570,236	
C3020	FLOOR FINISHES						
	Carpet	19,295	sf	5.50	106,123		
	Rubber tile	62,150	sf	12.00	745,800		
	Linoleum tile	102,383	sf	6.00	614,298		
	Premium for acoustic cushioning at upper level classrooms	73,485	sf	3.00	220,455		
	Sheet vinyl	24,010	sf	7.00	168,070		
	Ceramic tile	4,400	sf	24.00	105,600		
	Athletic performance wood	12,660	sf	18.00	227,880		
	Vented base	450	lf	8.00	3,600		
	Wood sprung floor	2,980	sf	22.00	65,560		
			_				
	Epoxy terrazzo with integral base	15,435	sf	40.00	617,400		
	Poured epoxy	11,320	sf	16.00	181,120		
	Poured epoxy Epoxy paint	11,320 88,135	sf sf	16.00 2.50	181,120 220,338		
	Poured epoxy Epoxy paint Resilient base	11,320	sf	16.00	181,120 220,338 50,000		
	Poured epoxy Epoxy paint Resilient base Moisture mitigation	11,320 88,135	sf sf	16.00 2.50	181,120 220,338		
	Poured epoxy Epoxy paint Resilient base Moisture mitigation SUBTOTAL	11,320 88,135	sf sf	16.00 2.50	181,120 220,338 50,000	3,326,244	
<b>C</b> 3030	Poured epoxy Epoxy paint Resilient base Moisture mitigation SUBTOTAL CEILING FINISHES	11,320 88,135 1	sf sf ls	16.00 2.50 50,000.00	181,120 220,338 50,000 NIC		
C3030	Poured epoxy Epoxy paint Resilient base Moisture mitigation SUBTOTAL  CEILING FINISHES ACT, 2 x 2	11,320 88,135 1	sf sf ls	16.00 2.50 50,000.00	181,120 220,338 50,000 NIC		
C3030	Poured epoxy Epoxy paint Resilient base Moisture mitigation SUBTOTAL  CEILING FINISHES ACT, 2 x 2 ACT, 2 x 2; High NRC	11,320 88,135 1 62,150 10,500	sf sf ls	16.00 2.50 50,000.00 6.00 7.50	181,120 220,338 50,000 NIC 372,900 78,750		
C3030	Poured epoxy Epoxy paint Resilient base Moisture mitigation SUBTOTAL  CEILING FINISHES ACT, 2 x 2 ACT, 2 x 2; High NRC ACT, 2 x 4; High NRC	11,320 88,135 1 62,150 10,500 137,130	sf sf ls	16.00 2.50 50,000.00 6.00 7.50 7.00	181,120 220,338 50,000 NIC 372,900 78,750 959,910		
Сзозо	Poured epoxy Epoxy paint Resilient base Moisture mitigation SUBTOTAL  CEILING FINISHES ACT, 2 x 2 ACT, 2 x 2; High NRC ACT, 2 x 4; High NRC GWB; MR	11,320 88,135 1 62,150 10,500 137,130 12,100	sf sf ls	16.00 2.50 50,000.00 6.00 7.50 7.00 15.00	181,120 220,338 50,000 NIC 372,900 78,750 959,910 181,500		
Сзозо	Poured epoxy Epoxy paint Resilient base Moisture mitigation SUBTOTAL  CEILING FINISHES ACT, 2 x 2 ACT, 2 x 2; High NRC ACT, 2 x 4; High NRC GWB; MR GWB soffits, allow	11,320 88,135 1 62,150 10,500 137,130	sf sf ls	16.00 2.50 50,000.00 6.00 7.50 7.00 15.00 350,000.00	181,120 220,338 50,000 NIC 372,900 78,750 959,910 181,500 350,000		
Сзозо	Poured epoxy Epoxy paint Resilient base Moisture mitigation SUBTOTAL  CEILING FINISHES ACT, 2 x 2 ACT, 2 x 2; High NRC ACT, 2 x 4; High NRC GWB; MR GWB soffits, allow Acoustic separation; GWB, resilient hangers, insulation	11,320 88,135 1 62,150 10,500 137,130 12,100	sf sf ls	16.00 2.50 50,000.00 6.00 7.50 7.00 15.00 350,000.00	181,120 220,338 50,000 NIC 372,900 78,750 959,910 181,500 350,000		
C3030	Poured epoxy Epoxy paint Resilient base Moisture mitigation SUBTOTAL  CEILING FINISHES ACT, 2 x 2 ACT, 2 x 2; High NRC ACT, 2 x 4; High NRC GWB; MR GWB soffits, allow Acoustic separation; GWB, resilient hangers, insulation Painted structure	62,150 10,500 12,100 100,518	sf sf ls sf sf sf sf sf sf	16.00 2.50 50,000.00 6.00 7.50 7.00 15.00 350,000.00	181,120 220,338 50,000 NIC 372,900 78,750 959,910 181,500 350,000 NR		
С3030	Poured epoxy Epoxy paint Resilient base Moisture mitigation SUBTOTAL  CEILING FINISHES ACT, 2 x 2 ACT, 2 x 2; High NRC ACT, 2 x 4; High NRC GWB; MR GWB soffits, allow Acoustic separation; GWB, resilient hangers, insulation Painted structure Specialty ceiling @ cafeteria	62,150 10,500 137,130 12,100 100,518 7,500	sf sf ls sf sf sf sf sf sf	16.00 2.50 50,000.00 6.00 7.50 7.00 15.00 350,000.00	181,120 220,338 50,000 NIC 372,900 78,750 959,910 181,500 350,000 NIR		
Сзозо	Poured epoxy Epoxy paint Resilient base Moisture mitigation SUBTOTAL  CEILING FINISHES ACT, 2 x 2 ACT, 2 x 2; High NRC ACT, 2 x 4; High NRC GWB; MR GWB soffits, allow Acoustic separation; GWB, resilient hangers, insulation Painted structure	62,150 10,500 12,100 100,518	sf sf ls sf sf sf sf sf sf	16.00 2.50 50,000.00 6.00 7.50 7.00 15.00 350,000.00	181,120 220,338 50,000 NIC 372,900 78,750 959,910 181,500 350,000 NR		



PSR Design Options Wakefield, MA

Weights A/V allowance provided

02-Dec-20

imate						GFA	38
	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
N Co NE		VII	UNII	COST	031	TOTAL	
IN C2 NE	EW BUILDING - 1600 STUDENTS  Auditorium clouds	1	ls	150,000.00	150,000		
	SUBTOTAL	•	15	130,000.00	1,0,000	3,108,146	
						3,,	
	TOTAL - INTERIOR FINISHES						\$11,004,
D	CONTINUE CUCTUM	7					
D10	CONVEYING SYSTEMS	_					
D1010	ELEVATOR			0.40,000,00	490 000		
	Elevator; 4 stop	2	ea	240,000.00	480,000	100 000	
	SUBTOTAL					480,000	
	TOTAL - CONVEYING SYSTEMS						\$480,
		7					
D20	PLUMBING						
D20	PLUMBING, GENERALLY		c				
	Service entrance, equipment, fixtures and piping.	380,853	sf	19.50	7,426,634		
	SUBTOTAL					7,426,634	
	TOTAL - PLUMBING						\$7,426
		7					
D30	HVAC						
D30	HVAC, GENERALLY		c				
	HVAC primarily all electric, air source heat pumps, VRF, and gas fired hot water boiler to pre-heat RTU's	380,853	sf	62.00	23,612,886		
	SUBTOTAL					23,612,886	
	TOTAL - HVAC						\$23,612,
D40	FIRE PROTECTION	]					
D40	FIRE PROTECTION, GENERALLY						
-	Install new service loop, fire pump and branch FP distribution	380,853	sf	6.50	2,475,545		
	SUBTOTAL					2,475,545	
	TOTAL - FIRE PROTECTION						\$2,475
D50	ELECTRICAL	]					
	Normal power service & distribution 5000A	380,853	sf	5.00	1,904,265		
	Generator gear and distribution 600KW	380,853	sf	3.50	1,332,986		
	PV rough-in only	0 - 1 / 1 00		0.0	700 77		
	Equipment wiring	380,853	sf	3.50	1,332,986		
	Lighting, controls and circuitry	380,853	sf	10.00	3,808,530		
	Branch devices and circuitry	380,853	sf	3.50	1,332,986		
	Fire alarm including BDA	380,853	sf		1,332,986		
	_			3.50			
	Technology system  Theotor lighting systems	380,853	sf la	2.00	761,706 200,000		
	Theater lighting systems	1 000 050	ls	200,000.00			
	Security system	380,853	sf -c	1.00	380,853		
	Miscellaneous electrical	380,853	sf	4.00	1,523,412		
	SUBTOTAL					13,910,710	
	Communications cabling and equipment allowance provided	1	ls	1,739,625.00	1,739,625		
	A/V cabling allowance provided	1	ls	104,000.00	104,000		
	IPTV and video pn demand allowance provided	1	ls	360,000.00	360,000		
	Gym A/V allowance provided	1	ls	128,000.00	128,000		
	Auditorium/stage A/V allowance provided	1	ls	148,000.00	148,000		
	Cafeteria/Stage A/V allowance provided	1	ls	148,000.00	148,000		
	Fitness Center A/V allowance provided	1	ls	15,500.00	15,500		
	YAZ-i-l-t- A /YZ-11		1				

ls

15,500.00

15,500



PSR Design Options Wakefield, MA

02-Dec-20

	DESCRIPTION W BUILDING - 1600 STUDENTS	QTY	UNIT	UNIT	EST'D	SUB	TOTAL
	W RIII DING - 1600 STUDENTS		01111	COST	COST	TOTAL	COST
	W BUILDING - 1000 STUDENTS				I		
	Speech Reinforcement allowance provided	1	ls	244,200.00	244,200		
	Instructional A/V allowance provided	1	ls	650,000.00	650,000		
	PA System allowance provided	1	ls	218,200.00	218,200		
	Clock System allowance provided	1	ls	126,300.00	126,300		
	SUBTOTAL					3,897,325	
	Security system allowance provided	1	ls	1,297,200.00	1,297,200		
	SUBTOTAL	•	15	1,29/,200.00	1,29/,200	1,297,200	
						1,297,200	
	TOTAL - ELECTRICAL						\$19,105,2
E10	EQUIPMENT						
	•						
E10	EQUIPMENT, GENERALLY Tavares Design, 10.30.2020						
	Food service equipment	1	ls	825,000.00	825,000		
	Basketball backstops	1	ls	27,000.00	27,000		
	Stage curtains and rigging	1	ls	650,000.00	650,000		
	Divider curtains	1	ls	32,000.00	32,000		
	Gym wall padding	1	ls	25,000.00	25,000		
	Telescoping bleachers	1	ls	215,000.00	215,000		
	Automotive refinishing - Booths/Frame Machine	1	ls	325,000.00	325,000		
	Automotive Tech - lifts	1	ls	160,000.00	160,000		
	HVAC/Plumbing - Boilers/Furnaces/Split systems	1	ls	65,000.00	65,000		
	Cosmetology - Wet stations/Manicure/Styling	1	ls	110,000.00	110,000		
	SUBTOTAL					2,434,000	
	Gymnasium dividing net; electrically operated	1	ls	30,000.00	30,000		
	Volleyball net and standards	1	ls	5,000.00	5,000		
	Wrestling mat lifter	1	ls	12,000.00	12,000		
	Scoreboards and shot clock	1	ls	25,000.00	25,000		
	Ceiling mounted batting cage	1	ls	2,500.00	2,500		
	Culinary equipment - assume part of Food Service above				incl		
	Residential appliances	1	ls	50,000.00	50,000		
	Electrically operated projection screens				w/ AV		
	SUBTOTAL					124,500	
	TOTAL FOLIDATIVE						φα0
	TOTAL - EQUIPMENT						\$2,558,50
E20	FURNISHINGS						
E2010	FIXED FURNISHINGS Entry mats & frames - recessed with carpet/rubber strips	1,000	sf	55.00	55,000		
	Window treatments including premium for motorized at Cafeteria & Gymnasium	46,555	sf	7.00	325,885		
	Fixed casework and Equipment, Tavares Design, 10.30.2020	1	ls	1,225,000.00	1,225,000		
	Auditorium seating	750	seats	310.00	232,500		
	SUBTOTAL	,03		J	J-,U	1,838,385	
_						, 3-70-0	
E2020	MOVABLE FURNISHINGS All movable furnishings to be provided and installed by owner						
	SUBTOTAL					NIC	
	TOTAL - FURNISHINGS						\$1,838,38

#### F10 SPECIAL CONSTRUCTION

F10 SPECIAL CONSTRUCTION

No items in this section



PSR Design Options Wakefield, MA

487 488

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**PSR Estimate** GFA 380,853

			UNIT	EST'D	SUB	TOTAL
DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

OPTION C2 NEW BUILDING - 1600 STUDENTS

SUBTOTAL

TOTAL - SPECIAL CONSTRUCTION

F20 SELECTIVE BUILDING DEMOLITION

F2010 BUILDING ELEMENTS DEMOLITION
No items in this section

SUBTOTAL

F2020 HAZARDOUS COMPONENTS ABATEMENT

See main summary for HazMat allowance See Summary

SUBTOTAL

TOTAL - SELECTIVE BUILDING DEMOLITION

SUBTOTAL OPTION C2 \$137,976,848



	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTA COST
VORK OI	PTION C2	ŲII	UNII	cosi	cosi	IOIAL	cosi
G	SITEWORK	1,000,000	sf	Affected site are	ea		
G10	SITE PREPARATION & DEMOLITION						
GIO	Site construction fence/barricades	0.000	16	16.00	60.940		
	Site construction fence gates and construction entrance	3,990	lf	16.00	63,840		
	<u> </u>	2	ea	10,000.00	20,000		
	Police details/road closures/phasing for utility work	1 276,600	ls	125,000.00	125,000		
	Pavement/curbing removal  Pavement/curbing removal- utility work in road	, ,	sf	1.25	345,750		
	, ,	40,300	sf	1.25	50,375		
	Clear trees, remove all stumps etc allow Construction laydown area	3	acre ls	8,000.00	24,000 10,000		
	Miscellaneous demolition including utilities	1	ls	200,000.00			
	SUBTOTAL	1	15	200,000.00	200,000	838,965	
	SUBIOTAL					030,905	
	Earthwork						
	Pre-blast survey	1	ls	100,000.00	100,000		
	Topsoil handling						
	Strip topsoil and forest organics and remove off-site	10,000	cy	16.00	160,000		
	Drilling/matting/blasting						
	At building footprint; includes no credit for selling processed rock	39,600	cy	45.00	w/ building		
	To design subgrade of site; includes no credit for selling processed rock	42,100	cy	45.00	1,894,500		
	Trench; for utility lines	1,500	cy	65.00	97,500		
	Rock excavation/hauling to stockpile location	43,600	cy	7.00	305,200		
	Process and stockpile for reuse on site x1.65 (2" minus)	70,125	tns	7.00	490,875		
	Process and stockpile for reuse within building footprint incl. 12" of structural below SOG x1.65 (2" minus) - 39,200cy	64,680	tns	7.00	w/ building		
	Pre split face; for exposed rock slopes; allowance	10,000	sf	9.78	97,800		
	Building Earthwork						
	Fill below footprint- reuse processed rock	39,200	cy	12.00	w/ building		
	Site Earthwork						
	Fill - reuse processed rock	34,375	cy	12.00	412,500		
	Fill - import common fill; swell 25%	40,625	cy	23.00	934,375		
	Groundwater management/ control measures	5	mths	20,000.00	100,000		
	Fine grading	57,819	sy	2.25	130,093		
	Hazardous Waste Remediation						
	Remove existing underground fuel storage tanks				assume not requi		
	Dispose/treat contaminated soils				assume not requi	red	
	Erosion Control		10				
	Silt fence/erosion control, wash bays, stock piles	3,990	lf	12.00	47,880		
	Inlet protection; allow	20	ea	250.00	5,000		
	Slope protection; allow	1	ls lf	25,000.00	25,000		
	Tree protection; allow	500		10.00	5,000		
	Wheel wash stations Silt force maintenance and monitoring	1	ls le	15,000.00	15,000		
	Silt fence maintenance and monitoring	1	ls	30,000.00	30,000	4 950 500	
	SUBTOTAL					4,850,723	
G20	SITE IMPROVEMENTS						
	Asphalt Paving; parking lot and roadway	210,605	sf				
	gravel base; 12" thick	7,800	cy	40.00	312,000		
	asphalt; 4" thick	5,212	tns	120.00	625,440		
	Granite curbing		lf				

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 $\underline{Access\ drive\ for\ maintenance\ of\ fields}$ 

gravel base; 12" thick

3,800

sf

cy

40.00

5,640



PSR Design Options Wakefield, MA

PSR Estimate

UNIT EST'D SUB TOTAL DESCRIPTION QTY UNIT COST COST TOTAL COST SITEWORK OPTION C2 54 asphalt; 4" thick tns 120.00 11,280 94 55 Patching for utility work sf 100,763 40,305 2.50 56 Other road markings ls 10,000.00 10,000 57 HC curb cuts - allow loc 850.00 12,750 15 58 SUBTOTAL 1,400,208 59 60 Pedestrian Paving Concrete walks 17,610 62 gravel base, 8" 437 cy 40.00 17,480 63 4" concrete paving (sidewalks) sf 17,610 12.00 211,320 Dumpster/ Equipment pads 1 ls 10,000.00 10,000 65 Building access plaza ls 250,000.00 250,000 66 SUBTOTAL 488,800 Intersection Work 69 Traffic Signal and intersection work ls 1,500,000 SUBTOTAL 1,500,000 72 Farm Street Access 73 Site construction fence/barricades lf 64,000 4,000 16.00 74 Site construction fence gates and construction entrance 10,000 1 ea 10,000.00 Silt fence/erosion control lf 4,000 12.00 48,000 Clear trees, remove all stumps etc. - allow acre 8,000.00 16,000 77 Miscellaneous demolition including utilities ls 50,000.00 1 50,000 Topsoil handling Strip topsoil and forest organics and remove off-site; allow 79 4,500 сy 16.00 72,000 80 81 To design subgrade of site; includes no credit for selling processed 15,700 cy 45.00 706,500 rock 82 Trench; for utility lines 500 cv 65.00 32,500 Rock excavation/hauling to stockpile location 20,700 cy 7.00 144,900 84 Process and stockpile for reuse on site x1.65 (2" minus) 14,850 tns 7.00 103,950 85 Disposal premium; risk of not selling 50% of rock left 3,350 cy 20.00 67,000 86 Site Earthwork 87 Fill - reuse processed rock 9,000 cy 12.00 108.000 7,778 Fine grading sy 2.25 17,501 89 Access drive to Farm Street 70,000 sf gravel base; 12" thick 2,593 40.00 103,720 cy 91 asphalt; 4" thick 1,733 tns 120.00 207,960 92 Granite curbing 4,530 lf 42.00 190,260 93 Patching for utility work 7,915 sf 2.50 19,788 8" CLDI- water 3,210 lf 125.00 401,250 95 Connect to existing - water loc 12,500.00 12,500 96 6" PVC - sewer 800 lf 80.00 64,000 97 12" HDPE - drainage 1,730 lf 80.00 138,400 24" HDPE - drainage lf 965 110.00 106,150 99 Subsurface infiltration system - drainage 2,100 sf40.00 84,000 100 Precast block retaining wall 350 lf 250.00 87,500 101 Import topsoil; swell 25% 60.00 34,740 579 cv Lawn - seed 25,000 sf 0.35 8,750 103 Irrigation allowance for lawn areas 25,000 sf1.25 31,250 SUBTOTAL 2,930,619 106 Site Furnishings 107 Site furnishings allowance (trash,bench,bike racks etc.) 50,000.00 50,000



PSR Estimate

	PSR Estimate							
		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	SITEWORK OPTION	C2		l				
108		Playground allowance	1	ls	125,000.00	125,000		
109	SUBT	OTAL					175,000	
110								
111	<u>Stadiı</u>	ım; Synthetic						
112	Synth	etic turf football field; brockfil w_sp-17	78,000	sf	8.00	624,000		
113	Sports	s netting allowance	1	ls	20,000.00	20,000		
114	Footb	all goal posts	1	sets	29,000.00	29,000		
115	Bleacl	hers	954	seats	400.00	381,600		
116	Press	box	1	ls	65,000.00	65,000		
117	Press	box lift	1	loc	50,000.00	50,000		
118	Runn	ing track pavement; reclaim and repave	58,800	sf	4.50	264,600		
119		ing track surface	6,533	sf	45.00	293,985		
120		ng track surrounding running track	13,400	sf	5.00	67,000		
121		unchor curb; d-area	400	lf	85.00	34,000		
122	_	out pad & throwing area	1	ea	30,000.00	30,000		
123		giump/Long jump event	2	ea	25,000.00	50,000		
124		fence - assume 4'ht CLF	1,500	lf	50.00	75,000		
125		- assume 4'ht CLF - single gate	3	ea	800.00	2,400		
126		- assume 4'ht CLF - double gate	3	ea	1,000.00	3,000		
127	SUBT	OTAL					1,989,585	
128	n 1	NG 11 st 1						
129		all field; Natural	0-	c		.0		
130		al grass	93,985	sf -c	2.00	187,970		
132		ed infield	10,890	sf	3.00	32,670		
133		ing track	1	ls	15,000.00	15,000		
134	Foul p		2	loc	3,600.00	7,200		
135		e plates incl. fortification	1	loc	3,500.00	3,500		
136	Bases	ers mound/rubber incl. fortification	1	loc ls	7,500.00	7,500		
137		narkings - allowance	1	ls	2,000.00	2,000		
138		all backstop	1		5,000.00	5,000		
139		e - assume 4'ht CLF with safety cap	1,070	ea lf	50,000.00	50,000 58,850		
140		- assume 4'ht CLF - single gate		ea	55.00 650.00	1,950		
141		e - assume 4'ht CLF - double gate	3	ea	1,000.00	1,000		
142		all scoreboard	1	loc	25,000.00	25,000		
143		all dugouts	2	ea	20,000.00	40,000		
144		en allowance	2	ea	10,000.00	20,000		
145	Irriga		93,985	sf	1.25	117,481		
146	=	OTAL	)0/J · 0			,,,,-	575,121	
147							0,0,	
148	Softba	all field; Natural Renovation						
149	Infield		11,950	sf	3.00	35,850		
150	Outfie	eld	34,730	sf	2.00	69,460		
151	Warn	ing track	1	ls	10,000.00	10,000		
152	Renov	vate softball backstop	1	loc	20,000.00	20,000		
153	Softba	all dugout	2	ea	20,000.00	40,000		
154	Foul p	poles for softball	2	ea	3,600.00	7,200		
155	Fence	- assume 4'ht CLF	795	lf	55.00	43,725		
156	Fence	- assume 4'ht CLF - single gate	3	ea	650.00	1,950		
157	Fence	- assume 4'ht CLF - double gate	1	ea	1,000.00	1,000		
158	Bullpe	en allowance	2	ea	10,000.00	20,000		
159	Irriga	tion	34,730	sf	1.25	43,413		
160	SUBT	OTAL					292,598	
161								
162	Site W	<u>Valls</u>						



PSR Estimate

		DECORPORA	om.		UNIT	EST'D	SUB	TOTAL
	CAMERA OF OR	DESCRIPTION CO.	QTY	UNIT	COST	COST	TOTAL	COST
163	SITEWORK OF	Precast block retaining wall	700	16	252.00	155 000		
164		SUBTOTAL	700	11	250.00	175,000	175 000	
165		SUBTOTAL					175,000	
166		Landscaping						
167		Import topsoil; swell 25%	4 460	ON.	60.00	267,720		
168		Lawn - seed	4,462 192,770	cy sf		67,470		
169		Renovate lower practice field; narrative	192,//0	ls	0.35 50,000.00	50,000		
170		Trees	112	ea	1,200.00	134,400		
171		Planting allowance including planting soils and mulch	1	ls	250,000.00	250,000		
172		Irrigation	192,770	sf	1.25	240,963		
173		SUBTOTAL	-3-,,,-	-	0	_40,700	1,010,553	
174							, , 000	
175	G3o	CIVIL MECHANICAL UTILITIES						
176		Water supply; Pricing includes E&B and bedding						
177		8" CLDI	3,615	lf	125.00	451,875		
178		Gate valves; allow	4	ea	1,500.00	6,000		
179		Connect to existing; allow	2	loc	12,500.00	25,000		
180		FD connection (assume)	1	ea	2,000.00	2,000		
181		Fire hydrant	8	ea	6,500.00	52,000		
182		Thrust blocks; allow	5	ea	850.00	4,250		
183		SUBTOTAL					541,125	
184								
185		Water supply in road; Pricing includes E&B and bedding						
186		16" Water main work	1,985	lf	185.00	367,225		
187		Gate valves	4	ea	5,000.00	20,000		
188		Connect to existing	2	loc	20,000.00	40,000		
189		Fire hydrant	1	ea	6,500.00	6,500		
190		Thrust blocks	9	ea	1,000.00	9,000		
191		SUBTOTAL					442,725	
192								
193		Sanitary; Pricing includes E&B and bedding						
194		4" PVC force main	550	lf	80.00	44,000		
195		6" PVC	1,285	lf	80.00	102,800		
196		Manholes	10	ea	4,500.00	45,000		
197		Grease trap, 10,000 gal.	1	ea	50,000.00	50,000		
198		Pipe cleaning and relining	1,161	lf	70.00	81,270		
199		Pump station; allowance	1	loc	100,000.00	100,000		
200		SUBTOTAL					423,070	
201								
202		Storm water; Pricing includes E&B and bedding						
203		12" HDPE	3,315	lf	80.00	265,200		
204		24" HDPE	1,785	lf	110.00	196,350		
205		AD	15	ea	3,500.00	52,500		
206		СВ	30	ea	4,200.00	126,000		
207		DMH	30	ea	4,500.00	135,000		
208		WQI	5	ea	12,000.00	60,000		
209		Stadium field drainage allowance; includes track drains	1	ls	175,000.00	175,000		
210		Baseball field drainage allowance	1	ls	100,000.00	100,000		
211		Subsurface infiltration system	46,815	sf	40.00	1,872,600		
212		SUBTOTAL					2,982,650	
213								
214		Gas service		10				
215		E&B trench for new gas pipe	2,100	lf	35.00	73,500	_	
216		SUBTOTAL					73,500	
217								



PSR Design Options Wakefield, MA

PSR Estimate

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UNIT EST'D TOTAL SUB DESCRIPTION QTY UNIT COST COST TOTAL COST SITEWORK OPTION C2 ELECTRICAL UTILITIES G40 Civil

02-Dec-20

lf Concrete work for duct banks 21,000 600 35.00 Transformer pad / generator pad 2,500.00 ea 5,000 2 Excavation & backfill for duct banks and site lighting lf 18,000 600 30.00 Utility co. backcharges, allow By Owner Power & Communications Primary and communications duct bank lf 102,000 600 170.00 Secondary and generator duct bank lf 100 500.00 50,000 Press box including feeder 50,000.00 1 ls 50,000 Sewage station including feeder 1 ls 70,000.00 70,000 Site Lighting Parking/Roadway area lighting (allow) 214,405 sf 536,013 2.50 Athletic field lighting; Stadium field ls 540,000.00 540,000 Score board including feeders 2 100,000.00 200,000 ea Electric Vehicle Charging Station EVCS provisions only ea 10,000.00 10,000 Site Security CCTV surveillance at site ls 100,000.00 100,000 Site Demolition Site demolition and make safe ls 10,000.00 10,000 1,712,013

TOTAL - SITE DEVELOPMENT <del>\$22,</del>402,255

Northeast MetroTech PSR 12.2.20 Page 84 PMC - Project Management Cost



PSR Design Options Wakefield, MA

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PSR Estimate GFA 373,653

DESCRIPTION OTY UNIT COST COST TOTAL	1 1				UNIT	EST'D	SUB	TOTAL
		DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

OPTION C3 NEW BUILDING - 1600 STUDENTS

GROSS FLOOR AREA CALCULATION

Basement 21,313 First Floor 154,606 Second Floor 110,376

		Third Floor			87,358	
	TOTAL GROSS FLOOR A	REA (GFA)				373,653 sf
A10	FOUNDATIONS					
A1010	STANDARD FOUNDATIONS					
033000	CONCRETE					
	Strip Footings		845	CY		
	Foundation Walls		839	CY		
	Spread Footings		1,834	CY		
	Piers		151	CY		
		Total Foundation Concrete	3,669	CY		
	Strip footings					
	Formwork		4,004	sf	14.00	56,056
	Re-bar		20,020	lbs.	1.40	28,028
	Concrete material		234	cy	130.00	30,420
	Placing concrete		234	cy	100.00	23,400
	Foundation walls					
	Formwork		16,016	sf	20.00	320,320
	Re-bar		32,032	lbs.	1.40	44,845
	Concrete material		414	cy	130.00	53,820
	Placing concrete		414	cy	140.00	57,960
	Form shelf		2,002	lf	10.00	20,020
	Retaining wall footing					
	Formwork		2,244	sf	14.00	31,416
	Re-bar		39,270	lbs.	1.40	54,978
	Concrete material		611	cy	130.00	79,430
	Placing concrete Retaining wall		611	cy	100.00	61,100
	Formwork		16 900	cf.	00.00	070.060
	Re-bar		16,830 84,150	sf lbs.	22.00 1.40	370,260 117,810
	Concrete material		425	cy	130.00	55,250
	Placing concrete		425	cy	140.00	59,500
	Form shelf		561	lf	10.00	5,610
	Spread Footings; 12' x 12' x 2'		301		10.00	5,010
	Formwork		1,848	sf	16.00	29,568
	Re-bar		31,680	lbs.	1.40	44,352
	Concrete material		198	cy	130.00	25,740
	Placing concrete		198	cy	160.00	31,680
	Set anchor bolts grout plates		21	ea	150.00	3,150
	Spread Footings; 11' x 11' x 2'					
	Formwork		10,800	sf	16.00	172,800
	Re-bar		168,000	lbs.	1.40	235,200
	Concrete material		1,050	cy	130.00	136,500
	Placing concrete		1,050	cy	160.00	168,000
	Set anchor bolts grout plates		135	ea	150.00	20,250
	Spread Footings; 10' x 10' x 2'					
	Formwork		4,000	sf	16.00	64,000
	Re-bar		62,240	lbs.	1.40	87,136
	Concrete material		389	cy	130.00	50,570
	Placing concrete		389	cy	160.00	62,240
	Set anchor bolts grout plates		=0		150.00	7,500
	Spread Footings; 9' x 9' x 2'		50	ea	150.00	/,500



PSR Design Options Wakefield, MA

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118

120

Building Earthwork

New Slab on grade, 5" thick

Fill below footprint- reuse processed rock

PSR Estimate GFA 373.653

02-Dec-20

	1			1	¥ 94 × × × ×	Tionete-	OV-	mo=: -
		DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
L			411	0.1111	C031	0031	IOIAL	2031
	TION C3 NE	W BUILDING - 1600 STUDENTS	40 - 0:	11.				
53 54		Re-bar Congrete meterial	10,080	lbs.	1.40	14,112		
55		Concrete material Placing concrete	63 62	cy	130.00 160.00	8,190 10,080		
66		Set anchor bolts grout plates	63 10	cy ea	150.00	1,500		
57		Spread Footings; 8' x 8' x 2'	10	ea	150.00	1,500		
68		Formwork	1,728	sf	16.00	27,648		
69		Re-bar	21,440	lbs.	1.40	30,016		
70		Concrete material	134	cy	130.00	17,420		
71		Placing concrete	134	cy	160.00	21,440		
72		Set anchor bolts grout plates	27	ea	150.00	4,050		
73		<u>Piers/Pilasters</u>						
74		Formwork	5,832	sf	22.00	128,304		
75		Re-bar	37,750	lbs	1.40	52,850		
76		Concrete material	151	cy	130.00	19,630		
77		Placing concrete	151	cy	160.00	24,160		
78		Thickened slab at interior load bearing walls	111	cy	350.00	38,850		
79 80	070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
81		Dampproofing at brick shelf	8,008	sf	3.00	NR		
82		Waterproofing to retaining wall	8,415	sf	8.00	67,320		
83		waterproofing to retaining wan	·,4-5	52	0.00	07,3=0		
84	072100	THERMAL INSULATION						
85		Insulation	16,423	sf	3.00	49,269		
86 87	312000	EARTHWORK						
88	312000							
		Strip footings						
89		Excavation				w/ lowest slab		
90		Remove off site				w/ lowest slab		
91 92		Backfill with selected material				w/ lowest slab		
93		Spread footings Excavation				w/ lowest slab		
94		Remove off site				w/ lowest slab w/ lowest slab		
95		Backfill with selected material				w/ lowest slab w/ lowest slab		
96		Miscellaneous				wy lowest slab		
97		Gravel fill beneath footings, 12"				w/ lowest slab		
98		Perimeter drain	2,563	lf	22.00	56,386		
99		Underslab drainage and waterproofing system	<i>7</i> 0 0			determined		
100		Underslab E&B for plumbing	154,606	sf	1.00	154,606		
101		Dewatering for foundation work	1	ls	50,000.00	50,000		
102		SUBTOTAL					3,396,260	
103								
104	A1020	SPECIAL FOUNDATIONS						
105		No work in this section						
106		SUBTOTAL					-	
107		LOWER DECOR CONCERNS						
108	A1030	LOWEST FLOOR CONSTRUCTION  At building footpoint, include and it for colling processed week	406 005	0	10.0-	10/0.00-		
		At building footprint; include credit for selling processed rock	136,000	cy	10.00	1,360,000		
110		To design subgrade of site; include credit for selling processed rock	169,000	cy	10.00	w/ site		
111		Trench; for utility lines	1 250	ev.	65.00	w/ site		
112			1,250	cy	65.00			
		Rock excavation/hauling to stockpile location	136,000	cy	7.00	952,000		
113		Process and stockpile for reuse on site x1.65 (2" minus)	15,510	tns	7.00	w/ site		
114		Process and stockpile for reuse within building footprint incl. 12" of structural below SOG x1.65 (2" minus) - 31,200cy	51,480	tns	7.00	360,360		
115		Pre split face; for exposed rock slopes; allowance	5,000	sf	9.78	w/ site		
116		Disposal premium; risk of not selling 50% of rock left						
		Disposal premium; risk of not seiling 50% of rock left	52,400	cy	20.00	1,048,000		

Excavation and backfill see Sitework

31,200

154,606

cy

sf

12.00

374,400



PSR Design Options Wakefield, MA

PSR Estimate GFA 373,653

	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
OPTIO	N C3 NEW BUILDING - 1600 STUDENTS		l l	l			
	Rigid insulation, underslab	154,606	sf	2.25	347,864		
	Vapor barrier	154,606	sf	1.00	154,606		
	Compact existing sub-grade	154,606	sf	0.50	77,303		
	Mesh reinforcing 15% lap	177,797	sf	1.10	195,577		
	Concrete - 5" thick; 4,000 psi	2,525	cy	135.00	340,875		
	Placing concrete	2,525	cy	45.00	113,625		
	Finishing and curing concrete	154,606	sf	2.50	386,515		
	Control joints - saw cut	154,606	sf	0.10	15,461		
	Miscellaneous						
	Elevator pit, 24" mat foundation w/ 12" concrete wall	3	ea	35,000.00	105,000		
	Loading dock	1	ls	40,000.00	40,000		
	Equipment pads	1	ls	15,000.00	15,000		
	SUBTOTAL					5,886,586	

TOTAL - FOUNDATIONS \$9,282,846

02-Dec-20

A20 BASEMENT CONSTRUCTION

A2010 BASEMENT EXCAVATION

No Work in this section

SUBTOTAL

A2020 BASEMENT WALLS

No Work in this section

SUBTOTAL

#### TOTAL - BASEMENT CONSTRUCTION

В10	SUPERSTRUCTURE					
		16.66	lbs/sf			
B1010	FLOOR CONSTRUCTION	3,113	tns			
	Floor Structure - Steel:					
	Steel beams and columns, 15-22#/SF	1,883	tns	3,800.00	7,155,400	
	Shear studs	43,809	ea	2.50	109,523	
	Floor Structure					
	3", 18ga Metal galvanized floor Deck	219,047	sf	4.00	876,188	
	WWF reinforcement	251,904	sf	1.10	277,094	
	Concrete fill to metal deck; total depth 5-1/4" light weight	3,727	cy	175.00	652,225	
	Place and finish concrete	219,047	sf	3.00	657,141	
	Rebar to decks	65,714	lbs	1.20	78,857	
	Misc. angles	219,047	sf	0.50	109,524	
	<u>Mezzanine</u>			1.20		
	Steel beams and columns, 15#/SF	150	tns	3,800.00	570,000	
	Shear studs	4,000	ea	2.50	10,000	
	3", 18ga Metal galvanized floor Deck	20,000	sf	4.00	80,000	
	WWF reinforcement	23,000	sf	1.10	25,300	
	Concrete fill to metal deck; total depth 5-1/4" light weight	340	cy	175.00	59,500	
	Place and finish concrete	20,000	sf	3.00	60,000	
	Rebar to decks	6,000	lbs	1.20	7,200	
	Misc. angles	20,000	sf	0.50	10,000	
	Miscellaneous					
	Fire proofing to columns and beams	239,047	sf	2.50	597,618	
	Fire stopping floors	1	ls	10,000.00	10,000	
	SUBTOTAL					11,345,570



PSR Estimate GFA 373,653

					UNIT	EST'D	SUB	TOTAL
		DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
	OPTION C <sub>3</sub> N	EW BUILDING - 1600 STUDENTS						
178	B102	O ROOF CONSTRUCTION						
179		Roof Structure - Steel:						
180		Steel beams and columns at roof, 13-18#/SF	1,230	tns	3,800.00	4,674,000		
181		Roof Structure						
182		3" 20 Ga. galvanized metal roof deck	170,067	sf	3.50	595,235		
183		Premium for acoustic deck at gym, cafeteria, auditorium	28,000	sf	7.00	196,000		
184		Miscellaneous						
185		Roof screen support	80	tns	5,000.00	400,000		
186		Concrete at mechanical equipment/ vegetated roof	20,000	sf	10.00	200,000		
187		Intumescent paint	1	ls	50,000.00	50,000		
188		Fire proofing to columns, beams and deck	142,067	sf	3.00	426,201		
189		SUBTOTAL					6,541,436	
190								
191		TOTAL - SUPERSTRUCTURE						\$17,887,006
192								

B2010	EXTERIOR WALLS Exterior Wall Area	119,944	sf sf			
	Exterior wan Area	79,163	SI			
42000	MASONRY					
	CMU veneer - large format, Arriscraft	11,994	sf	48.00	575,712	
	CMU back up	11,994	sf	30.00	359,820	
	Staging/Lifts to exterior wall	79,163	sf	4.00	316,652	
55000	MISC. METALS					
	Sign at main entrance	1	ls	10,000.00	10,000	
	Misc. metals at masonry	23,988	sf	1.50	35,982	
70001	WATERPROOFING, DAMPPROOFING AND CAULKING					
	Air barrier	79,163	sf	7.50	593,723	
	Air barrier/flashing at windows	23,989	lf	6.25	149,931	
	Miscellaneous sealants to closure	79,163	sf	1.00	79,163	
72100	THERMAL INSULATION					
	Insulation	79,163	sf	3.50	277,071	
76400	CLADDING					
	Metal panel	23,989	sf	75.00	1,799,175	
	High performance concrete panel	43,180	sf	90.00	3,886,200	
	Soffit at overhang, including framing	5,500	sf	90.00	495,000	
	Roof equipment screen - allow	10,000	sf	70.00	700,000	
92900	GYPSUM BOARD ASSEMBLIES					
	6" CFMF backup	23,989	sf	12.00	287,868	
	Gypsum Sheathing	23,989	sf	2.75	65,970	
	Drywall lining to interior face of stud backup	23,989	sf	3.50	83,962	
	Furring to inside face of retaining walls	8,415	sf	7.00	58,905	
	SUBTOTAL					9,775,134
B2020	WINDOWS					
	Exterior Glazed Area	40,782	sf			
61000	ROUGH CARPENTRY					
	Wood blocking at openings	23,989	lf	12.00	287,868	
70001	WATERPROOFING, DAMPPROOFING AND CAULKING					
	•					



PSR Estimate GFA 373,653

				ITATET	ECT'D	CITD	
	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
ON C3 NI	EW BUILDING - 1600 STUDENTS			<u> </u>		<u>'</u>	
	Backer rod & double sealant	23,989	lf	9.00	215,901		
080001	METAL WINDOWS						
	Curtainwall, double glazed	17,992	sf	120.00	2,159,040		
	Storefront, double glazed	17,992	sf	95.00	1,709,240		
	Sunshades; allow	1	ls	200,000.00	200,000		
084500	INSULATED TRANSLUCENT PANELS		c				
	Translucent wall panels	4,798	sf	90.00	431,820		
089000	LOUVERS						
	Louvers	250	sf	65.00	16,250		
	SUBTOTAL					5,020,119	
Ranan	EXTERIOR DOORS						
D2030	Glazed entrance doors including frame and hardware; double door	12	pr	9,000.00	108,000		
	Glazed entrance doors including frame and hardware; single door	12	ea	4,500.00	54,000		
	HM doors, frames and hardware- Double	6	ea	2,000.00	12,000		
	Overhead doors	8	ea	12,000.00	96,000		
	Backer rod & double sealant	360	lf	9.00	3,240		
	Wood blocking at openings	360	lf	3.00	1,080		
	SUBTOTAL					274,320	
	TOTAL - EXTERIOR CLOSURE						\$15,069
Взо	ROOFING	7					
		_					
_							
B3010	ROOF COVERINGS	150.065	of	99.00	0.741.474		
B3010	PVC membrane system	170,067	sf lf	22.00	3,741,474		
В3010	PVC membrane system Roof edge at membrane roofing	2,900	lf	50.00	145,000		
B3010	PVC membrane system  Roof edge at membrane roofing  Miscellaneous flashings, accessories etc.	2,900 170,067	lf sf	50.00 1.00	145,000 170,067		
B3010	PVC membrane system Roof edge at membrane roofing Miscellaneous flashings, accessories etc. Perimeter blocking and sealants	2,900 170,067 170,067	lf sf sf	50.00 1.00 1.50	145,000 170,067 255,101		
B3010	PVC membrane system Roof edge at membrane roofing Miscellaneous flashings, accessories etc. Perimeter blocking and sealants Allowance for soffits/ overhangs	2,900 170,067 170,067 170,067	lf sf	50.00 1.00 1.50 3.00	145,000 170,067 255,101 510,201		
B3010	PVC membrane system Roof edge at membrane roofing Miscellaneous flashings, accessories etc. Perimeter blocking and sealants	2,900 170,067 170,067	lf sf sf sf	50.00 1.00 1.50	145,000 170,067 255,101	5,171,843	
	PVC membrane system Roof edge at membrane roofing Miscellaneous flashings, accessories etc. Perimeter blocking and sealants Allowance for soffits/ overhangs Premium for vegetated roof/patio SUBTOTAL	2,900 170,067 170,067 170,067	lf sf sf sf	50.00 1.00 1.50 3.00	145,000 170,067 255,101 510,201	5,171,843	
	PVC membrane system Roof edge at membrane roofing Miscellaneous flashings, accessories etc. Perimeter blocking and sealants Allowance for soffits/ overhangs Premium for vegetated roof/patio	2,900 170,067 170,067 170,067	lf sf sf sf	50.00 1.00 1.50 3.00	145,000 170,067 255,101 510,201	5,171,843	
	PVC membrane system Roof edge at membrane roofing Miscellaneous flashings, accessories etc. Perimeter blocking and sealants Allowance for soffits/ overhangs Premium for vegetated roof/patio SUBTOTAL ROOF OPENINGS	2,900 170,067 170,067 170,067 10,000	lf sf sf sf	50.00 1.00 1.50 3.00 35.00	145,000 170,067 255,101 510,201 350,000	5,171,843	
	PVC membrane system Roof edge at membrane roofing Miscellaneous flashings, accessories etc. Perimeter blocking and sealants Allowance for soffits/ overhangs Premium for vegetated roof/patio SUBTOTAL ROOF OPENINGS Skylights	2,900 170,067 170,067 170,067 10,000	lf sf sf sf sf	50.00 1.00 1.50 3.00 35.00	145,000 170,067 255,101 510,201 350,000	5,171,843 941,000	
	PVC membrane system Roof edge at membrane roofing Miscellaneous flashings, accessories etc. Perimeter blocking and sealants Allowance for soffits/ overhangs Premium for vegetated roof/patio SUBTOTAL ROOF OPENINGS Skylights Roof hatch	2,900 170,067 170,067 170,067 10,000	lf sf sf sf sf	50.00 1.00 1.50 3.00 35.00	145,000 170,067 255,101 510,201 350,000		\$6,112,
	PVC membrane system Roof edge at membrane roofing Miscellaneous flashings, accessories etc. Perimeter blocking and sealants Allowance for soffits/ overhangs Premium for vegetated roof/patio SUBTOTAL  ROOF OPENINGS Skylights Roof hatch SUBTOTAL	2,900 170,067 170,067 170,067 10,000	lf sf sf sf sf	50.00 1.00 1.50 3.00 35.00	145,000 170,067 255,101 510,201 350,000		\$6,112,
	PVC membrane system Roof edge at membrane roofing Miscellaneous flashings, accessories etc. Perimeter blocking and sealants Allowance for soffits/ overhangs Premium for vegetated roof/patio SUBTOTAL  ROOF OPENINGS Skylights Roof hatch SUBTOTAL	2,900 170,067 170,067 170,067 10,000	lf sf sf sf sf	50.00 1.00 1.50 3.00 35.00	145,000 170,067 255,101 510,201 350,000		\$6,112,
B3020	PVC membrane system Roof edge at membrane roofing Miscellaneous flashings, accessories etc. Perimeter blocking and sealants Allowance for soffits/ overhangs Premium for vegetated roof/patio SUBTOTAL ROOF OPENINGS Skylights Roof hatch SUBTOTAL TOTAL - ROOFING	2,900 170,067 170,067 170,067 10,000	lf sf sf sf sf	50.00 1.00 1.50 3.00 35.00	145,000 170,067 255,101 510,201 350,000		\$6,112,
B3020	PVC membrane system Roof edge at membrane roofing Miscellaneous flashings, accessories etc. Perimeter blocking and sealants Allowance for soffits/ overhangs Premium for vegetated roof/patio SUBTOTAL ROOF OPENINGS Skylights Roof hatch SUBTOTAL  TOTAL - ROOFING  INTERIOR CONSTRUCTION  PARTITIONS	2,900 170,067 170,067 170,067 10,000 6,240 2	If sf sf sf sf loc	50.00 1.00 1.50 3.00 35.00 150.00 2,500.00	145,000 170,067 255,101 510,201 350,000 936,000 5,000		\$6,112,
B3020	PVC membrane system Roof edge at membrane roofing Miscellaneous flashings, accessories etc. Perimeter blocking and sealants Allowance for soffits/ overhangs Premium for vegetated roof/patio SUBTOTAL ROOF OPENINGS Skylights Roof hatch SUBTOTAL TOTAL - ROOFING	2,900 170,067 170,067 170,067 10,000	lf sf sf sf sf	50.00 1.00 1.50 3.00 35.00	145,000 170,067 255,101 510,201 350,000		\$6,112,
E10	PVC membrane system Roof edge at membrane roofing Miscellaneous flashings, accessories etc. Perimeter blocking and sealants Allowance for soffits/ overhangs Premium for vegetated roof/patio SUBTOTAL  ROOF OPENINGS Skylights Roof hatch SUBTOTAL  TOTAL - ROOFING  INTERIOR CONSTRUCTION  PARTITIONS Miscellaneous partitions - glazing, CMU, GWB assemblies, etc. SUBTOTAL  INTERIOR DOORS	2,900 170,067 170,067 170,067 10,000 6,240 2	If sf sf sf sf loc	50.00 1.00 1.50 3.00 35.00 150.00 2,500.00	145,000 170,067 255,101 510,201 350,000 936,000 5,000	941,000	\$6,112,
E10	PVC membrane system Roof edge at membrane roofing Miscellaneous flashings, accessories etc. Perimeter blocking and sealants Allowance for soffits/ overhangs Premium for vegetated roof/patio SUBTOTAL  ROOF OPENINGS Skylights Roof hatch SUBTOTAL  TOTAL - ROOFING  INTERIOR CONSTRUCTION  PARTITIONS Miscellaneous partitions - glazing, CMU, GWB assemblies, etc. SUBTOTAL  INTERIOR DOORS Doors; complete	2,900 170,067 170,067 170,067 10,000 6,240 2	If sf sf sf sf loc	50.00 1.00 1.50 3.00 35.00 150.00 2,500.00	145,000 170,067 255,101 510,201 350,000 936,000 5,000	941,000	\$6,112,
E10	PVC membrane system Roof edge at membrane roofing Miscellaneous flashings, accessories etc. Perimeter blocking and sealants Allowance for soffits/ overhangs Premium for vegetated roof/patio SUBTOTAL  ROOF OPENINGS Skylights Roof hatch SUBTOTAL  TOTAL - ROOFING  INTERIOR CONSTRUCTION  PARTITIONS Miscellaneous partitions - glazing, CMU, GWB assemblies, etc. SUBTOTAL  INTERIOR DOORS	2,900 170,067 170,067 170,067 10,000 6,240 2	If sf sf sf sf loc	50.00 1.00 1.50 3.00 35.00 150.00 2,500.00	145,000 170,067 255,101 510,201 350,000 936,000 5,000	941,000	\$6,112,
B3020  C10  C1010	PVC membrane system Roof edge at membrane roofing Miscellaneous flashings, accessories etc. Perimeter blocking and sealants Allowance for soffits/ overhangs Premium for vegetated roof/patio SUBTOTAL  ROOF OPENINGS Skylights Roof hatch SUBTOTAL  TOTAL - ROOFING  INTERIOR CONSTRUCTION  PARTITIONS Miscellaneous partitions - glazing, CMU, GWB assemblies, etc. SUBTOTAL  INTERIOR DOORS Doors; complete SUBTOTAL  SPECIALTIES / MILLWORK	2,900 170,067 170,067 170,067 10,000 6,240 2	lf sf sf sf sf sf sf ggf	50.00 1.00 1.50 3.00 35.00 150.00 2,500.00	145,000 170,067 255,101 510,201 350,000 936,000 5,000	941,000	\$6,112,
B3020  C10  C1010	PVC membrane system Roof edge at membrane roofing Miscellaneous flashings, accessories etc. Perimeter blocking and sealants Allowance for soffits/ overhangs Premium for vegetated roof/patio SUBTOTAL  ROOF OPENINGS Skylights Roof hatch SUBTOTAL  TOTAL - ROOFING  INTERIOR CONSTRUCTION  PARTITIONS Miscellaneous partitions - glazing, CMU, GWB assemblies, etc. SUBTOTAL  INTERIOR DOORS Doors; complete SUBTOTAL  SPECIALTIES / MILLWORK Specialties	2,900 170,067 170,067 170,067 10,000 6,240 2	If sf sf sf sf loc	50.00 1.00 1.50 3.00 35.00 150.00 2,500.00	145,000 170,067 255,101 510,201 350,000 936,000 5,000	941,000 11,956,896 2,241,918	\$6,112,
B3020  C10  C1010	PVC membrane system Roof edge at membrane roofing Miscellaneous flashings, accessories etc. Perimeter blocking and sealants Allowance for soffits/ overhangs Premium for vegetated roof/patio SUBTOTAL  ROOF OPENINGS Skylights Roof hatch SUBTOTAL  TOTAL - ROOFING  INTERIOR CONSTRUCTION  PARTITIONS Miscellaneous partitions - glazing, CMU, GWB assemblies, etc. SUBTOTAL  INTERIOR DOORS Doors; complete SUBTOTAL  SPECIALTIES / MILLWORK	2,900 170,067 170,067 170,067 10,000 6,240 2	lf sf sf sf sf sf sf ggf	50.00 1.00 1.50 3.00 35.00 150.00 2,500.00	145,000 170,067 255,101 510,201 350,000 936,000 5,000	941,000	\$6,112,



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SUBTOTAL

PSR Estimate GFA 373,653

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DESCRIF	TION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
TION C3 NEW BUILDING - 1600 STU	DENTS						
C20 STAIRCASES							
C2010 STAIR CONSTRUCTION							
Feature stairs, 1-2		1	flt	60,000.00	60,000		
Egress stairs		10	flt	40,000.00	400,000		
SUBTOTAL		10		40,000.00	400,000	460,000	
SOBIOTE						400,000	
C2020 STAIR FINISHES							
	stairs including all railings etc.	11	flt	3,000.00	33,000		
Precast terrazzo treads and r		280	lf	120.00	33,600		
Rubber tile at stairs - landing	S	1,100	sf	16.00	17,600		
Rubber tile at stairs - treads	k risers	1,650	lft	22.00	36,300		
SUBTOTAL						120,500	
TOTAL - STA	IRCASES						\$580,
C30 INTERIOR FINISHES							
C3010 WALL FINISHES		_	c		0.01		
Wall finishes		373,653	sf	12.00	4,483,836	4 400 006	
SUBTOTAL						4,483,836	
C3020 FLOOR FINISHES							
Carpet		21,545	sf	5.50	118,498		
Rubber tile		49,800	sf	12.00	597,600		
Linoleum tile		124,523	sf	6.00	747,138		
Premium for acoustic cushio	ning at upper level classrooms	84,500	sf	3.00	253,500		
Sheet vinyl		12,150	sf	7.00	85,050		
Ceramic tile		4,000	sf	24.00	96,000		
Athletic performance wood		12,660	sf	18.00	227,880		
Vented base		450	lf	8.00	3,600		
Wood sprung floor		2,980	sf	22.00	65,560		
Epoxy terrazzo with integral	base	20,370	sf	40.00	814,800		
Poured epoxy		11,100	sf	16.00	177,600		
Epoxy paint		77,160	sf	2.50	192,900		
Resilient base		1	ls	50,000.00	50,000		
Moisture mitigation					NIC		
SUBTOTAL						3,430,126	
C3030 CEILING FINISHES							
ACT, 2 x 2		49,800	sf	6.00	298,800		
ACT, 2 x 2; High NRC		10,500	sf	7.50	78,750		
ACT, 2 x 4; High NRC		140,533	sf	7.00	983,731		
GWB; MR		11,450	sf	15.00	171,750		
GWB soffits, allow		1	ls	350,000.00	350,000		
Acoustic separation; GWB, re	esilient hangers, insulation	72,800		1	NR		
Painted structure		99,655	sf	2.00	199,310		
Specialty ceiling @ cafeteria	11001	9,100	sf	50.00	455,000		
Vertical blade ceiling w/ ACI	• - •	3,000	sf	40.00	120,000		
Specialty metal ceiling w/ AC		6,150	sf	40.00	246,000		
Premium ACT/GWB @ Med	a	6,100	sf	25.00	152,500		
Auditorium clouds SUBTOTAL		1	ls	150,000.00	150,000	3,205,841	
	OR EINTIGUES					3,203,041	Φ
TOTAL - INTERI	OR FINISHES						\$11,119,
D10 CONVEYING SYSTEMS							
D1010 ELEVATOR		-					
Elevator; 4 stop		1	ea	240,000.00	240,000		
Elevator; 3 stop		2	ea	180,000.00	360,000		

600,000



PSR Design Options Wakefield, MA

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PSR Estimate GFA 373,653

				UNIT	EST'D	SUB	TOTAL
	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
OPTIO	M Co NEW DITH DINC 4600 CTUDENTS						

#### OPTION C3 NEW BUILDING - 1600 STUDENTS

	TOTAL - CONVEYING SYSTEMS						\$600,000
		<b>-</b>					
D20	PLUMBING	_					
D20	PLUMBING, GENERALLY Service entrance, equipment, fixtures and piping.	373,653	sf	19.50	7,286,234		
	SUBTOTAL					7,286,234	
	TOTAL - PLUMBING						\$7,286,234

D30 HVAC

HVAC, GENERALLY D30

 $\dot{\text{HVAC}}$  primarily all electric, air source heat pumps, VRF, and 373,653 sf gas fired hot water boiler to pre-heat RTU's SUBTOTAL

TOTAL - HVAC \$23,166,486

62.00

23,166,486

23,166,486

D40 FIRE PROTECTION

FIRE PROTECTION, GENERALLY

Install new service loop, fire pump and branch FP distribution 373,653 sf6.50 2,428,745 SUBTOTAL

2,428,745

TOTAL - FIRE PROTECTION \$2,428,745

ELECTRICAL D50

TOTAL - ELECTRICAL

Normal power service & distribution 5000A	373,653	sf	5.00	1,868,265	
Generator gear and distribution 600KW	373,653	$\mathbf{sf}$	3.50	1,307,786	
PV rough-in only					
Equipment wiring	373,653	sf	3.50	1,307,786	
Lighting, controls and circuitry	373,653	sf	10.00	3,736,530	
Branch devices and circuitry	373,653	sf	3.50	1,307,786	
Fire alarm including BDA	373,653	sf	3.50	1,307,786	
Technology system	373,653	sf	2.00	747,306	
Theater lighting systems	1	ls	200,000.00	200,000	
Security system	373,653	sf	1.00	373,653	
Miscellaneous electrical	373,653	sf	4.00	1,494,612	
SUBTOTAL					13,651,510
Communications cabling and equipment allowance provided	1	ls	1,739,625.00	1,739,625	
A/V cabling allowance provided	1	ls	104,000.00	104,000	
IPTV and video pn demand allowance provided	1	ls	360,000.00	360,000	
Gym A/V allowance provided	1	ls	128,000.00	128,000	
Auditorium/stage A/V allowance provided	1	ls	148,000.00	148,000	
Cafeteria/Stage A/V allowance provided	1	ls	148,000.00	148,000	
Fitness Center A/V allowance provided	1	ls	15,500.00	15,500	
Weights A/V allowance provided	1	ls	15,500.00	15,500	
Speech Reinforcement allowance provided	1	ls	244,200.00	244,200	
Instructional A/V allowance provided	1	ls	650,000.00	650,000	
PA System allowance provided	1	ls	218,200.00	218,200	
Clock System allowance provided	1	ls	126,300.00	126,300	
SUBTOTAL					3,897,325
Security system allowance provided	1	ls	1,297,200.00	1,297,200	
SUBTOTAL					1,297,200

Northeast MetroTech PSR 12.2.20 Page 91 PMC - Project Management Cost

02-Dec-20

\$18,846,035



PSR Design Options Wakefield, MA

 PSR Estimate GFA 373,653

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				UNIT	EST'D	SUB	TOTAL
	DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

## OPTION C3 NEW BUILDING - 1600 STUDENTS

E10	EQUIPMENT						
E10	<b>EQUIPMENT, GENERALLY</b> Tavares Design, 10.30.2020						
	Food service equipment	1	ls	825,000.00	825,000		
	Basketball backstops	1	ls	27,000.00	27,000		
	Stage curtains and rigging	1	ls	650,000.00	650,000		
	Divider curtains	1	ls	32,000.00	32,000		
	Gym wall padding	1	ls	25,000.00	25,000		
	Telescoping bleachers	1	ls	215,000.00	215,000		
	Automotive refinishing - Booths/Frame Machine	1	ls	325,000.00	325,000		
	Automotive Tech - lifts	1	ls	160,000.00	160,000		
	HVAC/Plumbing - Boilers/Furnaces/Split systems	1	ls	65,000.00	65,000		
	Cosmetology - Wet stations/Manicure/Styling	1	ls	110,000.00	110,000		
	SUBTOTAL					2,434,000	
	Gymnasium dividing net; electrically operated	1	ls	30,000.00	30,000		
	Volleyball net and standards	1	ls	5,000.00	5,000		
	Wrestling mat lifter	1	ls	12,000.00	12,000		
	Scoreboards and shot clock	1	ls	25,000.00	25,000		
	Ceiling mounted batting cage	1	ls	2,500.00	2,500		
	Culinary equipment - assume part of Food Service above				incl		
	Residential appliances	1	ls	50,000.00	50,000		
	Electrically operated projection screens				w/ AV		
	SUBTOTAL					124,500	

TOTAL - EQUIPMENT \$2,558,500
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Fan	FURNISHINGS	

E2010	FIXED FURNISHINGS Entry mats & frames - recessed with carpet/rubber strips	1,000	sf	55.00	55,000	
	Window treatments including premium for motorized at Cafeteria & Gymnasium	40,782	sf	7.00	285,474	
	Fixed casework and Equipment, Tavares Design, 10.30.2020	1	ls	1,225,000.00	1,225,000	
	Auditorium seating	750	seats	310.00	232,500	
	SUBTOTAL					1,797,974

# E2020 MOVABLE FURNISHINGS

All movable furnishings to be provided and installed by owner

SUBTOTAL

TOTAL - FURNISHINGS \$1,797,974

# F10 SPECIAL CONSTRUCTION

F10 SPECIAL CONSTRUCTION
No items in this section

SUBTOTAL

### TOTAL - SPECIAL CONSTRUCTION

# F20 SELECTIVE BUILDING DEMOLITION

**F2010 BUILDING ELEMENTS DEMOLITION**No items in this section

SUBTOTAL

F2020 HAZARDOUS COMPONENTS ABATEMENT



PSR Design Options Wakefield, MA

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**PSR Estimate** GFA 373.653

			UNIT	EST'D	SUB	TOTAL
DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST

OPTION C3 NEW BUILDING - 1600 STUDENTS

See main summary for HazMat allowance

See Summary

02-Dec-20

491 SUBTOTAL 492

TOTAL - SELECTIVE BUILDING DEMOLITION

SUBTOTAL OPTION C3 \$133,737,757



Wakefield, MA

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PSR Estimate UNIT EST'D SUB TOTAL DESCRIPTION QTY UNIT COST TOTAL COST COST SITEWORK OPTION 3C SITEWORK Affected site area G 1,500,000 sf SITE PREPARATION & DEMOLITION Site construction fence/barricades lf 16.00 150,880 9,430 Site construction fence gates and construction entrance 2 ea 10,000.00 20,000 Police details ls 25,000.00 25,000 Pavement/curbing removal sf 276,600 1.25 345,750 Clear trees, remove all stumps etc. - allow 15 acre 8,000.00 120,000 Construction laydown area ls 10,000.00 10,000 200,000.00 Miscellaneous demolition including utilities ls 200,000 SUBTOTAL 871,630 Earthwork Pre-blast survey ls 100,000.00 100,000 1 Topsoil handling Strip topsoil and forest organics and remove off-site 21,730 16.00 347,680 cyDrilling/matting/blasting - phase 1 At building footprint; include credit for selling processed rock 136,000 10.00 w/ building cy To design subgrade of site; include credit for selling processed rock 1,690,000 169,000 cy 10.00 Trench; for utility lines 1,250 cy 65.00 81,250 Rock excavation/hauling to stockpile location 170,250 cy 7.00 1,191,750 Process and stockpile for reuse on site x1.65 (2" minus) 15,510 tns 7.00 108,570 Process and stockpile for reuse within building footprint incl. 12" 51,480 tns 7.00 w/ building of structural below SOG x1.65 (2" minus) - 31,200cy sf Pre split face; for exposed rock slopes; allowance 5,000 9.78 48,900 Disposal premium; risk of not selling 50% of rock left 80,425 сy 20.00 1,608,500 Credit for reuse of 25% of the proposed gravel base 2,917 cy (22.00) (64,174)**Building Earthwork** Fill below footprint- reuse processed rock 31,200 12.00 w/building cy Site Earthwork; limited to phase 1 area Fill - reuse processed rock 9,400 cy 12.00 112,800 Drilling/matting/blasting - phase 2 To design subgrade of site; include credit for selling processed rock 131,000 10.00 1,310,000 cy Trench; for utility lines 1,250 cy 65.00 81,250 Rock excavation/hauling to stockpile location 132,250 cy 7.00 925,750 Process and stockpile for reuse on site x1.65 (2" minus) 118,635 tns 7.00 830,445 Pre split face; for exposed rock slopes; allowance sf 5,000 48,900 9.78 Disposal premium; risk of not selling 50% of rock left 29,550 cy 20.00 591,000 Site Earthwork Fill - reuse processed rock 12.00 862,800 71,900 cv Groundwater management/ control measures mths 5 20,000.00 100.000 Fine grading 79,116 2.25 178,011 sy Hazardous Waste Remediation Remove existing underground fuel storage tanks assume not required Dispose/treat contaminated soils assume not required

02-Dec-20

G20 SITE IMPROVEMENTS

SUBTOTAL

**Erosion Control** 

Inlet protection; allow

Slope protection; allow

Tree protection; allow

Wheel wash stations

Silt fence/erosion control, wash bays, stock piles

Silt fence maintenance and monitoring

lf

ea

1 ls

lf

ls

ls

12.00

250.00

10.00

25,000.00

15,000.00

30,000.00

113,160

5,000

25,000

5,000

15,000

30,000

10,346,592

9,430

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Wakefield, MA

**PSR** Estimate

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Baseball field; Natural Renovation

TOTAL UNIT EST'D SUB DESCRIPTION QTY UNIT COST COST TOTAL COST SITEWORK OPTION 3C Asphalt Paving; parking lot and roadway 291,200 sf gravel base; 12" thick 10,785 cy 40.00 431,400 asphalt; 4" thick 7,207 864,840 120.00 tns lf Granite curbing 14,225 42.00 597,450 Parking lines 436 spc 85.00 37,060 Access drive for maintenance of fields 3,765 sfgravel base; 12" thick 5,560 139 cy 40.00 asphalt; 4" thick 93 tns 120.00 11,160 Patching for utility work  $\operatorname{sf}$ 19,788 7,915 2.50 Other road markings ls 10,000 10,000.00 1 HC curb cuts - allow 15 loc 850.00 12,750 SUBTOTAL 1,990,008 Pedestrian Paving Concrete walks 20,925 sfgravel base, 8" 519 cy 40.00 20,760 4" concrete paving (sidewalks) sf12.00 251,100 20,925 Access ramp to football field 3,560 sf gravel base, 8" 88 cy 40.00 3,520 4" concrete paving (sidewalks) sf 12.00 42,720 3,560 Access walkway to lower fields 5,460 sf gravel base, 8" 135 cy 40.00 5,400 4" concrete paving (sidewalks) 5,460 sf 12.00 65,520 lf 330 225.00 74,250 Handrails at stairs lf 106 275.00 29,150 Dumpster/ Equipment pads ls 1 10,000.00 10,000 Building access plaza ls 250,000.00 250,000 SUBTOTAL 752,420 Intersection Work Traffic Signal and intersection work ls 1,500,000.00 1,500,000 SUBTOTAL 1,500,000 Site Furnishings Site furnishings allowance (trash,bench,bike racks etc.) ls 50,000.00 50,000 125,000 Pre-K Playground allowance ls 125,000.00 1 SUBTOTAL 175,000 Stadium; Synthetic Synthetic turf football field; brockfil w\_sp-17 78,000 sf 8.00 624,000 Sports netting allowance ls 20,000.00 20,000 Football goal posts 1 sets 29,000.00 29,000 Bleachers 381,600 seats 400.00 954 Press box 1 ls 65,000.00 65,000 Press box lift 1 loc 50,000.00 50,000 Running track pavement; reclaim and repave 58,800 sf 264,600 4.50 Running track surface sf 293,985 6,533 45.00 Walking track surrounding running track 13,400 sf 5.00 67,000 Turf anchor curb; d-area 400 lf 85.00 34,000 Shot put pad & throwing area 30,000.00 30,000 1 ea Triple jump/Long jump event 2 ea 25,000.00 50,000 Track fence - assume 4'ht CLF 1,500 lf 75,000 50.00 Fence - assume 4'ht CLF - single gate 800.00 2,400 ea 3 Fence - assume 4'ht CLF - double gate 1,000.00 3,000 3 ea SUBTOTAL 1,989,585



PSR Estimate

		DESCRIPTION	QTY	UNIT	COST	COST	TOTAL	COST
	SITEWORK OI	PTION 3C		•	<u> </u>			
113		Amend natural grass @ baseball field; allowance	93,985	sf	0.75	70,489		
114		Skinned infield @ baseball field	10,890	sf	3.00	32,670		
115		Foul poles	2	loc	3,600.00	7,200		
116		Home plates incl. fortification	1	loc	3,500.00	3,500		
117		Pitchers mound/rubber incl. fortification	1	loc	7,500.00	7,500		
118		Bases	1	ls	2,000.00	2,000		
119		Line markings - allowance	1	ls	5,000.00	5,000		
120		Baseball backstop -per narrative	1	ea	50,000.00	50,000		
121		Fence - assume 4'ht CLF with safety cap	840	lf	55.00	46,200		
122		Fence - assume 4'ht CLF - single gate	3	ea	650.00	1,950		
123		Fence - assume 4'ht CLF - double gate	1	ea	1,000.00	1,000		
124		Baseball scoreboard	1	loc	25,000.00	25,000		
125		Baseball dugouts	2	ea	20,000.00	40,000		
126		Bullpen allowance	2	ea	10,000.00	20,000		
127		Irrigation	93,985	sf	1.25	117,481		
128		SUBTOTAL					429,990	
129 130		Softball field- Soccer overlay; Synthetic						
131		Synthetic turf softball field; brockfil w_sp-17	101,620	sf	8.00	812,960		
132		Turf anchor curbing for soccer/softball	1,260	lf	85.00	107,100		
133		Softball backstop	1	ls	35,000.00	35,000		
134		Softball dugout	2	ea	20,000.00	40,000		
135		Foul poles	2	ea	3,600.00	7,200		
136		Fence - assume 4'ht CLF with safety cap	1,260	lf	55.00	69,300		
137		Fence - assume 4'ht CLF - single gate	6	ea	650.00	3,900		
138		Fence - assume 4'ht CLF - double gate	2	ea	1,000.00	2,000		
139		Soccer goals	2	ea	12,500.00	25,000		
140		Soccer/softball scoreboard	1	loc	25,000.00	25,000		
141		SUBTOTAL					1,127,460	
142 143		Tennis courts						
144		Tennis courts Tennis court paving and surfacing	35,925	sf	6.00	215 550		
145		Tennis court paving and standards  Tennis court fencing and standards	33,9 <u>2</u> 5 5	ea	45,000.00	215,550 225,000		
146		SUBTOTAL	J	cu	45,000.00	223,000	440,550	
147		ocaromia.					440,550	
148		Site Walls						
149		Precast block retaining wall	1,120	lf	250.00	280,000		
150		Climbing wall	75	lf	400.00	30,000		
151		SUBTOTAL					310,000	
152 153		Landscaping						
154		Import topsoil; swell 25%	11,921	cy	60.00	715,260		
155		Lawn - seed	515,000	sf	0.35	180,250		
156		Trees	183	ea	1,200.00	219,600		
157		Planting allowance including planting soils and mulch	1	ls	250,000.00	250,000		
158		Irrigation	515,000	sf	1.25	643,750		
159		SUBTOTAL					2,008,860	
160								
161	G30	CIVIL MECHANICAL UTILITIES						
162		Water supply; Pricing includes E&B and bedding						
163		8" CLDI	5,945	lf	125.00	743,125		
164		Gate valves (allow)	18	ea	1,500.00	27,000		
165		Connect to existing	2	loc	12,500.00	25,000		
166		FD connection (assume)	1	ea	2,000.00	2,000		
167		Fire hydrant	16	ea	6,500.00	104,000		
168		Thrust blocks	29	ea	850.00	24,650		
169		SUBTOTAL					925,775	

UNIT

EST'D

SUB

02-Dec-20

TOTAL



Wakefield, MA

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Site Demolition

SUBTOTAL

Site demolition and make safe

PSR Estimate UNIT EST'D SUB TOTAL DESCRIPTION QTY UNIT COST COST TOTAL COST SITEWORK OPTION 3C Sanitary; Pricing includes E&B and bedding 6" PVC lf 3,045 80.00 243,600 Manholes 25 ea 4,500.00 112,500 Grease trap, 10,000 gal. ea 50,000.00 50,000 108,500 Pipe cleaning and relining lf 70.00 1,550 SUBTOTAL 514,600 Storm water; Pricing includes E&B and bedding 12" HDPE 6,305 lf 80.00 504,400 24" HDPE lf 2,540 110.00 279,400 AD 3,500.00 15 ea 52,500 CB ea 4,200.00 231,000 55 DMH 4,500.00 225,000 50 ea WOI 6 ea 12,000.00 72,000 Stadium field drainage allowance; includes track drains ls 175,000.00 175,000 Softball field drainage allowance ls 100,000.00 100,000 1 Subsurface infiltration system #1 (Softball/Soccer) sf 1,838,000 45,950 40.00 Subsurface infiltration system #2 (Football) 46,590 sf 40.00 1,863,600 Subsurface infiltration system #3 5,000 sf 40.00 200,000 Subsurface infiltration system #4 sf 84,000 2,100 40.00 SUBTOTAL 5,624,900 Gas service E&B trench for new gas pipe (allow) lf 500 35.00 17,500 SUBTOTAL 17,500 G40 ELECTRICAL UTILITIES lf Concrete work for duct banks 1,500 35.00 52,500 Transformer pad / generator pad 2 ea 2,500.00 5,000 Excavation & backfill for duct banks and site lighting lf 30.00 1,500 45,000 Utility co. backcharges, allow By Owner Power & Communications Primary and communications duct bank lf 1,500 170.00 255,000 lf Secondary and generator duct bank 500.00 100 50,000 Press box including feeder ls 50,000.00 50,000 Concessions building including feeder 1 ls 50,000.00 50,000 Electrical to maintenance Building ls 50,000.00 50,000 1 Electrical to athletic Building ls 50,000.00 50,000 Site Lighting Parking/Roadway area lighting (allow) sf 294,965 2.50 737,413 Athletic field lighting; Stadium field ls 1 540,000.00 540,000 Athletic field lighting; Tennis Courts ls 270,000.00 270,000 Score board including feeders 100,000.00 3 ea 300,000 Electric Vehicle Charging Station EVCS provisions only 10,000.00 10,000 ea Site Security CCTV surveillance at site ls 100,000,00 100,000

02-Dec-20

TOTAL - SITE DEVELOPMENT \$31,599,783

ls

10,000.00

10,000

2,574,913