

\$237,364,033

\$533



Town Of Belmont Belmont High School Belmont MA 90% CD Reconciled Estimate - Issue 02

Grand Total Project Cost:

Project Cost Summary									
Description	Cost Basis	Total Cost	Cost/SF						
Total Building Cost	445,100 sf	\$128,395,893	\$288.47						
Total Site Cost		\$17,752,823	\$39.89						
3% Deduct Subcontractor Insurance (Excludes EBP's)	\$167,346,927	(\$5,020,408)	\$0.00						
1.35% Subcontractor Default Insur. (SDI) / Bonds for Trade C	Contr.	\$2,143,062.04	\$4.81						
Total Direct Cost		\$143,271,370	\$321.89						
<u>Contingencies</u>									
3.0% Design/Estimating Contingency (See Contingency Cal2.0% Construction Contingency3.59% PH1-3 Escalation Contingency Avg.	\$4,415,006 \$2,926,974 \$5,254,639	\$9.92 \$6.58 \$11.81							
Total Contingencies:		\$12,596,620	\$28.30						
Insurance & Bonds									
Builders Risk Insurance 2.70% C.C.I.P. 0.73% Skanska Bonding		By Owner \$4,640,185 \$1,323,416	\$0.00 \$10.43 \$2.97						
Total Insurance & Bonds:		\$5,963,601	\$13.40						
Construction Management Services									
General Conditions General Requirements 1.95% Construction Management Fee		\$10,149,944 \$5,840,782 \$3,467,535	\$22.80 \$13.12 \$7.79						
Total Construction Management Services:		\$19,458,261	\$43.72						
Building Permit		By Owner	\$0.00						
Estimated Total Project Cost:		\$181,289,853	\$407.30						
Early Bid Package Summary (See EBP Backup Doc)		\$56,074,181							



Direct Cost Summary

Des	cription	Phase 1 - Renovation & New	Phase 2 - New Construction	Phase 3 - Site Work	Total Cost	Cost/SF
		Construction				
						(445,100)
		0.11 0.07	440.040		454.000	
A10	Foundation	\$41,367	\$12,919		\$54,286	\$0.12
A20	Basements	44.500.550	44.400.000		\$0	\$0.00
B10	Superstructure	\$1,586,758	\$4,492,220		\$6,078,978	\$13.66
B20	Exterior Closure	\$6,942,463	\$3,288,356		\$10,230,819	\$22.99
B30	Roofing	\$2,097,238	\$1,013,259		\$3,110,497	\$6.99
C10	Interior Construction	\$9,667,540	\$5,235,668		\$14,903,208	\$33.48
C20	Stairs	\$474,135	\$586,481		\$1,060,616	\$2.38
C30	Interior Finishes	\$10,428,427	\$3,446,367		\$13,874,794	\$31.17
D10	Conveying	\$0			\$0	\$0.00
D20	Plumbing	\$3,641,783	\$2,272,848		\$5,914,631	\$13.29
D30	_	\$15,390,242	\$5,026,006		\$20,416,248	\$45.87
D30	Geothermal Wells	\$6,025,000			\$6,025,000	
D40	Fire Protection	\$1,951,064	\$845,948		\$2,797,012	\$6.28
D50	Electrical	\$12,305,736	\$5,262,754		\$17,568,490	\$39.47
E10	Equipment	\$4,396,278	\$633,900		\$5,030,178	\$11.30
E20	Furnishings	\$2,661,939	\$2,877,534		\$5,539,473	\$12.45
F10	Special Construction	\$700,000			\$700,000	\$1.57
F20	Selective Demolition	\$231,046	\$8,086,074	\$54,000	\$8,371,120	\$18.81
Z10	Phasing Temp Work	\$2,337,289	\$1,716,855		\$4,054,144	\$9.11
Z10	GR's with Trades	\$1,286,399	\$1,380,000		\$2,666,399	\$5.99
	Total Building Cost	\$82,164,704	\$46,177,190	\$54,000	\$128,395,893	\$288.47
G10	Site Preparation	\$1,218,610	\$1,932,361	\$731,137	\$3,882,108	\$8.72
G20	Site Improvements	\$3,680,375	\$4,167,308	\$1,127,651	\$8,975,334	\$20.16
G30	Site Mechanical Utilities	\$1,525,231	\$1,698,850	\$308,149	\$3,532,230	\$7.94
G40		\$943,521	\$367,644	\$51,986	\$1,363,151	\$3.06
	Total Site Cost	\$7,367,737	\$8,166,163	\$2,218,923	\$17,752,823	\$39.89
	Grand Total Direct Cost	\$89,532,441	\$54,343,352	\$2,272,923	\$146,148,716	\$328

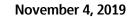


October 29, 2019

Summary of Early Bid Package Values

arly Bid Packages	VE Saving w/ Indirect Cost	90% CD Est Carry Values
bove the Line RTA Cost		
Geothermal Target RTA Value		\$6,225,000
<u> </u>		, , ,
otal Above the Line Early Bid Packages Values		\$6,225,000
		¥0,==0,000
elow the Line RTA Cost		
Early Bid package #1 (Abatement)	\$444,802	\$444,802
, a para gray	¥ 1 1 1,00 2	¥111,662
Amendment #3 (Geo Support + Furniture)	\$56,855	\$56,855
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Amendment #4 (Temp Trailers)	\$42,023	\$42,023
Amendment #6 - EBP#2 Earthwork/Demo/Enabling	\$13,402,478	\$12,596,464
Z10.5 EBP2 Reduce Hold Value Allowances	(\$320,190)	ψ12,330,404
Z10.5 EBP2 Reduce Hold Value Allowances Z10.5 EBP2 Waterline Credit	(\$85,587)	
F20.2B - Reduction to Abatement Contract	(\$400,238)	
G20.30 Soil Disposal From EBP2 (\$200,000)	Incl'd in Base Estimate	
	mord in Buse Estimate	
Amendment #7R2 - EBP#3 Piles	\$7,312,802	\$7,013,958
G20.29 Target Pile Reduction (\$339,000)	. , ,	. , ,
G20.29 - Unutilized Pile Allowance return	(\$213,460)	
G20.29 - Delete Pre-auguring from Pile Driving Scope	(\$85,384)	
G20.29 - Reduce Soil Disposal for Per-auguring	Incl'd in Base Estimate	
Amendment #8 – Design Assist CW package	\$16,168,728	\$10,893,080
Design Assist Curtain Wall Savings	(\$5,275,648)	
Amendment #9 – Misc. Authorization Requests		W/ Owners Contingency
Amendment #10R1 – Structural Steel Phase 1	\$40,400,042	\$40,000,00F
	\$10,189,813	\$10,008,865
VE#99A Remove Pond Terrace Canopy	(\$98,902)	
VE#100 Remove Pond Terrace 2nd Floor Balcony	(\$30,510)	
VE#109 Remove Brick Wing Wall Area A VE#110 Remove Brick Wing Wall Area B	(\$2,448) (\$2,074)	
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
B10.16 Reduce Level 2 Area B Mechanical Space Structure. B10.3B Revise amount of columns with intumescent paint at	(\$9,015) (\$38.000)	
	(\$38,000)	
columns, Isolatek WB4 Paint at Pool steel & Spray fireproofing at band room. (50% of Target Value)		
Structural Steel Phase 1 Includes the Stairs #1 	Incl'd Above	
Official Office Finasc Finologies the Stalls #1 0#2	IIICI U ADOVE	
Amendment #12 – Concrete and GC	\$14,790,961	\$14,384,690
G20.28 - Concrete buyout savings	(\$336,503)	ψ11,00±,000
B10.16 Reduce Level 2 Area B Mech. Space Structure	(\$485)	
VE#100 Remove Pond Terrace 2nd Floor Balcony	(\$13,325)	
VE#089 Revise Roof Terrace (Delete Curb)	(\$430)	
A10.2 - Concrete Removal of 5" slabs	(\$55,528)	
	(, - ,)	
Amendment #13 Elevators	\$633,444	\$633,444
otal Below the Line Early Bid Packages Values	56,074,181	\$56,074,181

NOTE: Schematic / Precon and Amendment #1,9,11 cost are included with Owner's Budget.



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Town Of Belmont Belmont High School Belmont MA 90% CD Reconciled Estimate - Issue 02

Project Contingency Calculator

ID	Description Estimated Cos		Design/Est Contingency			ngency	Construction Contingency			Escalation Contingency			Total		
			L	S	Н	Extended	L	S	Н	Extended	L	S	Н	Extended	
			1%	2.25%	4.25%	Value	0%	2%	0%	Value	1.5%	2.0%	3.75%	Value	
A10	Foundations	54,286	х			543		Х		1,086			X	2,036	3,664
A20	Basement Construction	0				0				0				0	0
B10	Superstructure	6,078,978		X		136,777		X		121,580			X	227,962	486,318
B20	Exterior Enclosure	10,230,819		Х		230,193		X		204,616			X	383,656	818,466
B30	Roofing	3,110,497		Х		69,986		Х		62,210			X	116,644	248,840
C10	Interior Construction	14,903,208			X	633,386		X		298,064			X	558,870	1,490,321
C20	Stairs	1,060,616		х		23,864		Х		21,212			X	39,773	84,849
C30	Interior Finishes	13,874,794			X	589,679		X		277,496			X	520,305	1,387,479
D10	Conveying	0				0		X		0				0	0
D20	Plumbing	5,914,631			Х	251,372		X		118,293			X	221,799	591,463
D30	HVAC	20,416,248			X	867,691		X		408,325			X	765,609	2,041,625
D30	Geothermal Wells EBP	6,225,000				0		Х		124,500				0	124,500
D40	Fire Protection	2,797,012	х			27,970		X		55,940			X	104,888	188,798
D50	Electrical	17,568,490		X		395,291		Х		351,370			х	658,818	1,405,479
E10	Equipment	5,030,178			X	213,783		Х		100,604			X	188,632	503,018
E20	Furnishings	5,539,473		X		124,638		X		110,789			X	207,730	443,158
F10	Special Construction	700,000			X	29,750		Х		14,000			X	26,250	70,000
F20	Selective Building Demolition	8,371,120		X		188,350		Х		167,422			X	313,917	669,690
Z10	Phasing Temp Work	4,054,144			X	172,301		Х		81,083			х	152,030	405,414
Z10	GR's with Trades	2,666,399		X		59,994		Х		53,328			X	99,990	213,312
G10	Site Preparation	3,882,108		X		87,347		Х		77,642			х	145,579	310,569
G20	Site Improvements	8,975,334		x		201,945		х		179,507			x	336,575	718,027
G30	Site Civil/Mechanical Utilities	3,532,230		Х		79,475		Х		70,645			х	132,459	282,578
G40	Site Electrical Utilities	1,363,151		x		30,671		х		27,263			x	51,118	109,052
		146,348,716		Total		4,415,006	•	Total		2,926,974		Total		5,254,639	12,596,620
	·			3.02%				2.00%				3.59%	8.61%		



Direct Cost Summary Comparison

Desc	ription	60% Estimate Reconciled	Accepted VM	Projected 60% Estimate	90% Estimate	Cost/SF	Variance
						(445,100)	
A10	Foundation	\$54,286	\$0	\$54,286	\$54,286	\$0.12	\$0
A20	Basements	\$0	\$0	\$0	\$0	\$0.00	\$0
B10	Superstructure	\$6,470,915	(\$196,841)	\$6,274,074	\$6,078,978	\$13.66	(\$195,096)
B20	Exterior Closure	\$9,411,299	\$680,923	\$10,092,222	\$10,230,819	\$22.99	\$138,597
B30	Roofing	\$3,527,556	(\$324,314)	\$3,203,242	\$3,110,497	\$6.99	(\$92,745)
C10	Interior Construction	\$16,121,361	(\$1,469,531)	\$14,651,830	\$14,903,208	\$33.48	\$251,378
C20	Stairs	\$1,186,758	(\$274,614)	\$912,144	\$1,060,616	\$2.38	\$148,472
C30	Interior Finishes	\$17,239,037	(\$2,923,643)	\$14,315,394	\$13,874,794	\$31.17	(\$440,600)
D10	Conveying	\$0	\$0	\$0	\$0	\$0.00	\$0
D20	Plumbing	\$6,208,918	(\$240,000)	\$5,968,918	\$5,914,631	\$13.29	(\$54,287)
D30	H.V.A.C.	\$25,018,919	(\$133,000)	\$24,885,919	\$26,441,248	\$59.41	\$1,555,329
D40	Fire Protection	\$2,669,289	(\$73,550)	\$2,595,739	\$2,797,012	\$6.28	\$201,273
D50	Electrical	\$19,045,324	(\$1,430,413)	\$17,614,911	\$17,568,490	\$39.47	(\$46,421)
E10	Equipment	\$5,650,932	(\$632,000)	\$5,018,932	\$5,030,178	\$11.30	\$11,246
E20	Furnishings	\$7,002,531	(\$897,972)	\$6,104,559	\$5,539,473	\$12.45	(\$565,086)
F10	Special Construction	\$700,000	\$0	\$700,000	\$700,000	\$1.57	\$0
F20	Selective Demolition	\$9,571,334	(\$1,475,000)	\$8,096,334	\$8,371,120	\$18.81	\$274,786
Z10	Phasing Temp Work	\$4,224,448	(\$728,000)	\$3,496,448	\$4,054,144	\$9.11	\$557,696
Z10	GR's with Trades	\$2,968,971	\$0	\$2,968,971	\$2,666,399	\$5.99	(\$302,572)
	Total Building Cost	\$137,071,878	(\$10,117,955)	\$126,953,923	\$128,395,893	\$288.47	\$1,441,970
G10	Site Preparation	\$4,365,084	(\$1,155,660)	\$3,209,424	\$3,882,108	\$8.72	\$672,684
G20	Site Improvements	\$9,237,898	(\$444,340)	\$8,793,558	\$8,975,334	\$20.16	\$181,776
G30	Site Mechanical Utilities	\$3,451,841	\$0	\$3,451,841	\$3,532,230	\$7.94	\$80,389
G40	Site Electrical Utilities	\$1,305,233	\$0	\$1,305,233	\$1,363,151	\$3.06	\$57,918
	Total Site Cost	\$18,360,057	(\$1,600,000)	\$16,760,057	\$17,752,823	\$39.89	\$992,766



Project Cost Summary Comparison

Description Project Area	60% Estimate Reconciled	Accepted VM	Projected 60% Estimate	90% CD Est. Total Cost	Cost/SF	Variance
Total Building Cost 445,100 sf	\$137,071,878	(\$10,117,955)	\$126,953,923	\$128,395,893	\$288	\$1,441,970
Total Site Cost	\$18,360,057	(\$1,600,000)	\$16,760,057	\$17,752,823	\$40	\$992,766
3% Deduct Subcontractor Insurance \$178,526,403	(\$5,355,792)	\$353,846	(\$5,001,946)	(\$5,020,408)		(\$18,462)
1.35% Subcontractor Default Insur. (SDI) / Bonds for Trade Conf	\$2,329,116	\$367,996	\$2,697,112	\$2,143,062	\$5	(\$554,050)
Total Direct Cost	\$152,405,258	(\$10,996,113)	\$141,409,146	\$143,271,370	\$322	\$1,862,224
Contingencies						
Design Contingency (EBP#3, 4.03, 4.05) Design/Estimating Contingency (CSA Trades) Design/Estimating Contingency (MEP) Construction Contingency PH1-3 Escalation Contingency Avg.	\$285,289 \$2,632,194 \$2,507,208 \$4,095,562 \$7,574,913	(\$436,061) (\$199,172) (\$1,182,500) (\$586,184)	\$285,289 \$2,196,133 \$2,308,036 \$2,913,063 \$6,988,729	\$0 \$2,872,683 \$1,542,324 \$2,926,974 \$5,254,639	\$0 \$7 \$12	(\$285,289) \$676,550 (\$765,712) \$13,912 (\$1,734,090)
Total Contingencies:	\$17,095,166	(\$2,403,917)	\$14,691,250	\$12,596,620	\$28	(\$2,094,629)
Insurance & Bonds						
Builders Risk Insurance 2.70% C.C.I.P. / GLI 0.73% Skanska Bonding	By Owner \$6,211,352 \$1,771,525	\$0 (\$482,867) (\$137,718)	By Owner \$5,728,485 \$1,633,807	By Owner \$4,640,185 \$1,323,416	\$0 \$10 \$3	By Owner (\$1,088,300) (\$310,391)
Total Insurance & Bonds:	\$7,982,877	(\$620,585)	\$7,362,292	\$5,963,601	\$13	(\$1,398,691)
Construction Management Services						
General Conditions General Requirements 1.95% Construction Management Fee	\$11,150,211 \$4,885,031 \$4,641,643	Incl'd w/ Amend#12 (\$350,093) (\$360,839)	\$11,150,211 \$4,534,938 \$4,280,804	\$10,149,944 \$5,840,782 \$3,467,535	\$23 \$13 \$8	Incl'd w/ Amend#12 \$1,305,844 (\$813,269)
Total Construction Management Services:	\$20,676,885	(\$710,932)	\$19,965,953	\$19,458,261	\$44	\$492,575
Building Permit	By Owner	\$0	By Owner	By Owner	\$0	By Owner
Total Project Cost:	\$198,160,186	(\$14,731,546)	\$183,428,640	\$181,289,853	\$407	(\$2,138,788)



Amendment Early Bid Package

Bid Packages	60% Estimate Reconciled w/ Contingency	Accepted VM	Projected 60% Estimate	90% Estimate	Cost/SF	Variance
Early Bid package #1 (Abatement) Amendment #3 (Geo Support + Furniture) Amendment #4 (Temp Trailers) Amendment #6 - EBP#2 Earthwork/Demo/Enabling Amendment #7R2 - EBP#3 Piles Amendment #10R1 - Structural Steel Phase 1 Amendment #8 - Design Assist CW package Amendment #9 - Misc. Authorization Requests Amendment #12 - Concrete and GC	\$444,802 \$56,855 \$42,023 \$13,018,487 \$6,908,081 \$9,601,660 \$15,280,050 \$0	(\$405,777) (\$298,844) (\$180,948) (\$3,630,680)	\$6,609,237 \$9,420,712 \$11,649,370 \$0	\$444,802 \$56,855 \$42,023 \$12,596,464 \$7,013,958 \$10,008,865 \$10,893,080 W/ Owners Contingency \$14,384,690	\$1 \$0 \$0 \$28 \$16 \$22 \$24 \$0	\$0 \$0 \$0 (\$16,247) \$404,721 \$588,153 (\$756,290) \$0 \$1,846,193
Amendment #13 Elevators Grand Total Project Cost	\$568,480 \$256,955,625	(\$19,584,298)	\$568,480 \$237,371,327	\$633,444 \$237,364,033	\$1 \$533	\$64,964 \$0 (\$7,293)