

		Fort River Elementary School											
		Amherst, MA											
		Architect: DiNisco Design											
		OPM: Anser											
		January 19, 2023											
SCHEMATIC DESIGN PHASE						Team Recommended	Impact				Accepted	SBC Decision	
	Value Engineering Options	Description / Impact	Direct Cost	Total Deduct (incl 29% markups)	Yes / No / Potential	Design	Program	Sustainability	Ops	Accepted	SBC Decision		
SITE	Replace concrete paving with bituminous paving	Concrete sidewalks leading to and around the building become bituminous (black top)	\$165,919	\$214,036	Yes	X			X	\$214,036	YES		
	Eliminate vertical curb at west side of parking lot	no curbing at west side. Snow removal easier, but vehicles not contained	\$27,000	\$34,830	Potential				X	\$0			
	Delete Bluestone at Rain Gardens	Replace with gravel. Maintains stormwater functionality of the raingarden. Accesibility as an educational space is neutral.	\$158,816	\$204,873	Yes	X				\$204,873	YES		
	Delete unit pavers replace with concrete	Concrete walk replaces unit pavers at main entry. Unit pavers in play area replaced with bituminous.	\$82,900	\$106,941	Yes	X				\$106,941	YES		
	Town accepts excess fill from site	Estimate assumes general contractor pays disposal fee for surplus materials removed from site. If surplus material to be property of the town only trucking costs incurred.	\$305,400	\$393,966	Yes				X	\$393,966	YES		
	Lower first floor elevation and south end of site 1'	Lowers first floor elevation from 178' to 177' resulting in floor elevation above groundwater range from 3' to 6'	\$124,964	\$161,204	No	X				\$0			
	Delete one full size basketball court	Assumes eliminating 1 full size basketball court and replacing with equal area of grass	\$42,900	\$55,341	No		X			\$0			
	Delete playsurface between play structures	Replace with grass	\$210,000	\$270,900	Np		X			\$0			
	Delete Birdhouses	Nice element for outdoor learning but not required. Birdhouses could be a student project.	\$5,000	\$6,450	Yes		X			\$6,450	YES		
	Community Fields amenities	Above surface amenities such as Backstops,bases, infield, safety netting, benches, fences, etc.	\$127,625	\$164,636	Yes					\$164,636	YES		
	Reduce parking spaces	Approximately \$ 1,000 per space			No		X			\$0			
	Replace vertical granite curb with precast concrete curb at play areas.	Change of curb material in play areas	\$11,055	\$14,261	Potential				X	\$14,261	YES		
	Replace vertical granite curb with cap cod berm at parking areas and drive lanes	Change of curb material in parking and drive areas	\$103,544	\$133,572	Potential				X	\$133,572	YES		
	Reduce Plexi pave to game lines only	Reduces area of color on blacktop play areas to game lines only	\$115,799	\$149,381	Yes	X				\$149,381	YES		
	15% reduction in bituminous paving area	Reduction in paved paths around building, requires layout and material changes	\$95,352	\$123,004	Yes	X				\$123,004	YES		
		NEW / ADDED POTENTIAL ITEMS TO CONSIDER											
		Reduce Planters, Benches, Logs	Reduce a portion - Approximately 30-40%	\$67,350	\$86,882						\$0		
		Reduce Stone Boulders	Reduce a portion of boulders - currently 55 at \$1,000 each								\$0		
ARCH/ STRUC													
	Eliminate phenolic rainscreen and replace with cast stone units	Visual contrast can be maintained with a less expensive surface material	\$212,130	\$273,648	Yes	X				\$273,648	YES		

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BUILDING EXTERIOR / ENVELOPE	Reduce overhang /roof line depth at media center and administration 50%	Slight change in the look. No impact to shading. On second floor on the North side of building	\$151,661	\$195,643	Yes	X				\$195,643	YES		
	Reduce mechanical screen wall 50%	Aesthetics only, some equipment will be visable from the bus drop off loop	\$116,496	\$150,280	Yes	X				\$150,280	YES		
	Delete horizontal accent mullions on exerior curtainwall	Aesthetic change to curtainwall framing to cafeteria, media center and gym	\$57,270	\$73,878	Yes	X				\$73,878	YES		
	Replace Spandrel glass at Media center and Cafeteria with single skin metal panel	Slight change in the look. Overall material contrast will be maintained.	\$47,700	\$61,533	Yes	X				\$61,533	YES		
	Replace composite metal panel at music room with single skin metal panel	Slight change in the look. Overall material contrast will be maintained.	\$48,950	\$63,146	Yes	X				\$63,146	YES		
	Replace composite metal panel canopy and soffit fascia with break metal	Slight change in the look. Overall material contrast will be maintained.	\$124,460	\$160,553	Yes	X				\$160,553	YES		
	Replace preformed roof edge with brake metal	Included in above	\$0	\$0		X				\$0			
	Replace all composite panel with single skin metal panel	Additive to above. Slight change in the look. Overall material contrast will be maintained.	\$70,820	\$91,358	Yes	X				\$91,358	YES		
	Replace glazing @ Gym clerestory with Polycarbonate Panels (Kalwal)	Do not recommend. Polycarbonate panels deteriorates under UV with time			No	X				\$0			
	Replace curtainwall at single story exterior walls with windows	Do not recommend based upon the size of the window openings			No	X				\$0			
	Reduce first floor floor-to-floor elevation to 14'-8" from 16'	Reduction of floor-to-floor height reduces volume. Reduces exterior wall area (including windows), reduces interior partition area. Net effect is reduction in floor-to-ceiling height approximately 8"-16" depending on location. Greatest impact would be cafeteria	\$273,163	\$352,380	Yes	X			X	\$352,380	YES		
	Reduce curtainwall at gym by 30% / replace with GFCMU	Aesthetic change. Ample light remains in gym.	\$14,229	\$18,355	Yes	X				\$18,355	YES		
	Replace precast concrete wall base where located in selected locations on first floor with GFCMU	Aesthetics only.	\$52,125	\$67,241	Yes	X				\$67,241	YES		
TERIOR	Eliminate wood shiplap panels at Project Area portals. Replace with abuse resistant GWB, painted	Aesthetic change, not as durable	\$53,350	\$68,822	No	X			X	\$0			
	Reduce wood shiplap panels by 50% at Project Area portals. Replace with abuse resistant GWB, painted	Aesthetic change but maintains wainscott for durability	\$26,675	\$34,411	Yes	X				\$34,411	YES		
	Replace wood cabinets over student lockers @ Project Areas with P-Lam (wood grain)	Aesthetic change	\$36,270	\$46,788	Yes	X				\$46,788	YES		
	Reduce storefront at library interior entrance 50%	Reduces the amount of glazing at the corridor entrance into the library. Replace with solid wall.	\$15,680	\$20,227	Yes	X				\$20,227	YES		
	Replace storefront at Library Interior walls with HM frames	Maintains glazed area. Replaces aluminum framing with painted hollow metal frames. Cannot be used in conjunction with above (if want to reduce this value by 50%)	\$1,105	\$1,425	No	X				\$0			
	Eliminate ceramic tile wainscot @ all Academic Corridors, replace with abuse resistant GWB	Aesthetic change, not as durable. High traffic areas susceptible to dings, scuff marks, etc. Would increase maintenance (re-painting)	\$144,284	\$186,126	No	X			X	\$0			
	Reduce ceramic tile wainscot from 5' to 3'-6" @ all Academic Corridors, replace with abuse resistant GWB	Aesthetic change, not as durable but 3'-6" height provides reasonable protection. High traffic areas susceptible to dings, scuff marks, etc. Would increase maintenance (re-painting)	\$43,285	\$55,838	Yes	X			X	\$55,838	YES		
	Replace phenolic panel system @ lobby with veneer wood paneling	Material change only. Similar design intent remains	\$25,380	\$32,740	Yes	X				\$32,740	YES		
	Replace phenolic panel system @ cafeteria with veneer wood paneling	Material change only. Similar design intent remains. If replace at lobby, strongly recommend changing it at this location	\$13,640	\$17,596	Yes	X				\$17,596	YES		
Replace fire rated glass at central stair with standard glazing in hollow metal frames with deluge sprinklers	Maintains borrowed light from stairwell. Allowed under previous codes, requires approval by AHJ.	\$262,140	\$338,161	Yes	X				\$338,161	YES			

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BUILDING INT	Reduce fire rated glazing by 50% at central stair, replace with solid wall.	Reduces borrowed light from stairwell. Cannot be combined with above, but does not require AHJ approval. If above is not approved by AHJ, recommend this item	\$143,570	\$185,205	No	X				\$0			
	Delete full height ceramic wall tile at multi fixture toilets to 5'-2" wainscot	Aesthetics. Upper wall will require re-painting.	\$73,386	\$94,668	Yes	X			X	\$94,668	YES		
	Delete recessed picture rail system at corridors	If eliminated, method of displaying student art TBD	\$29,250	\$37,733	Yes	X	X			\$37,733	YES		
	Delete perforated, curved, metal clouds in cafeteria / replace with architectural acoustic tile ceiling	Aesthetics.	\$127,382	\$164,323	Yes	X				\$164,323	YES		
	Delete open grid metal (clouds) at project areas / replace with light fixtures	Aesthetics. Use pendant light fixtures to reduce the vertical scale of the project areas while maintaining daylighting	\$95,360	\$123,014	Yes	X				\$123,014	YES		
	Replace wood stage floor with Linoleum (Treads, Risers, and Apron to remain wood)	Aesthetics. Resilient "dance" quality lost with linoleum on concrete	\$16,106	\$20,777	No	X				\$0			
	Reduce interior glazing transoms between classrooms and project areas by 40%. Replace with solid wall.	Aesthetics. Reduces daylighting in project areas.	\$83,000	\$107,070	No	X				\$0			
	Delete hardwood running trim framing the transoms in projects areas. Replace with drywall.	Aesthetics.	\$82,000	\$105,780	Yes	X				\$105,780	YES		
	Delete exterior doors at kindergartens. Replace with window / solid wall.	Elimination of exterior egress only doors @ kindergarten rooms Improves security and sustainability. Would require AHJ setting occupancy of room @ 49 persons.	\$16,860	\$21,749	No	X			X	\$0			
	Reduce number of motorized electrical backboards	Replace 4 electric backboards with manually adjusted backboards	\$9,400	\$12,126	No					X	\$0		
	Delete 12 lockers at project areas outside SE classrooms	Reduces total locker count from 864 to 720	\$45,360	\$58,514	Yes		X			\$58,514	YES		
MECHANICAL	Replace sensor faucets in all bathrooms with mechanical flow controlled fixtures (touch) fixtures	Operationally preferred over electronically controlled (sensor) fixtures	\$27,045	\$34,888	Yes				X	\$34,888	YES		
	Install a valve station at each room and only run (2) pipes to each chilled beam rather than (4) pipes. There will still be (4) pipes down the corridors.	Adds control valves but reduces piping each room having multiple chilled beams. Spaces will continue to be able to heated or cooled individually.	\$457,000	\$589,530	Yes				x	\$589,530	YES		
ELECTRICAL	Reduce interior lighting fixtures quantity / scope by 10%.	As design progresses there will be opportunity to reduce the amount of lighting fixtures while maintaining the desired lighting levels	\$112,106	\$144,617	Yes	X		X		\$144,617	YES		
	Reduce pedestrian site lighting around play structures by 10%.	As design progresses there will be opportunity to reduce the amount of lighting fixtures while maintaining the desired lighting levels	\$8,000	\$10,320	Yes	X		X		\$10,320	YES		
	Reduce site lighting at roadway and parking lot by 10%.	As design progresses there will be opportunity to reduce the amount of lighting fixtures while maintaining the desired lighting levels	\$24,470	\$31,566	Yes	X		X		\$31,566	YES		
	Change main switchboard to 3000A from 4000A.	3000A feeders are specified and what is required	\$65,000	\$83,850	Yes				X	\$83,850	YES		
	Secondary electric service feeders from pad mounted transformer – use aluminum feeders in lieu of copper	Approved by the Massachusetts Electrical Code section 310.14	\$12,500	\$16,125	No				X	\$0			
	Generator electric service feeders – use aluminum feeders	Approved by the Massachusetts Electrical Code section 310.14	\$28,656	\$36,966	No				X	\$0			
	Gym and cafeteria sound systems – Simplify the systems. Currently estimated at \$75,000 and \$85,000	Can provide appropriate systems at a savings	\$70,000	\$90,300	Yes	X	X			\$90,300	YES		
	Remove concrete encasement from generator ductbanks J-J, K-K, L-L.	PVC conduits will be direct buried rather than concrete encased.	\$31,312	\$40,392	Yes				X	\$40,392	YES		
	Remove athletic field ductbank system from street. Feed future athletic field and concession stand from transformer for parking lot PV and EVCS.	There is a maximum of eight conduits that can enter the transformer. Might impact future loads on transformer	\$68,478	\$88,337	Yes				X	\$88,337	YES		
	Delete electric hand dryers from multi-fixture and staff bathrooms	Replace with paper towel dispensers	\$43,797	\$56,498	no				X	\$0			
	Reduce quantity of CCTV interior cameras	Per School Committee policy	\$60,000	\$77,400	Yes					\$77,400	YES		

