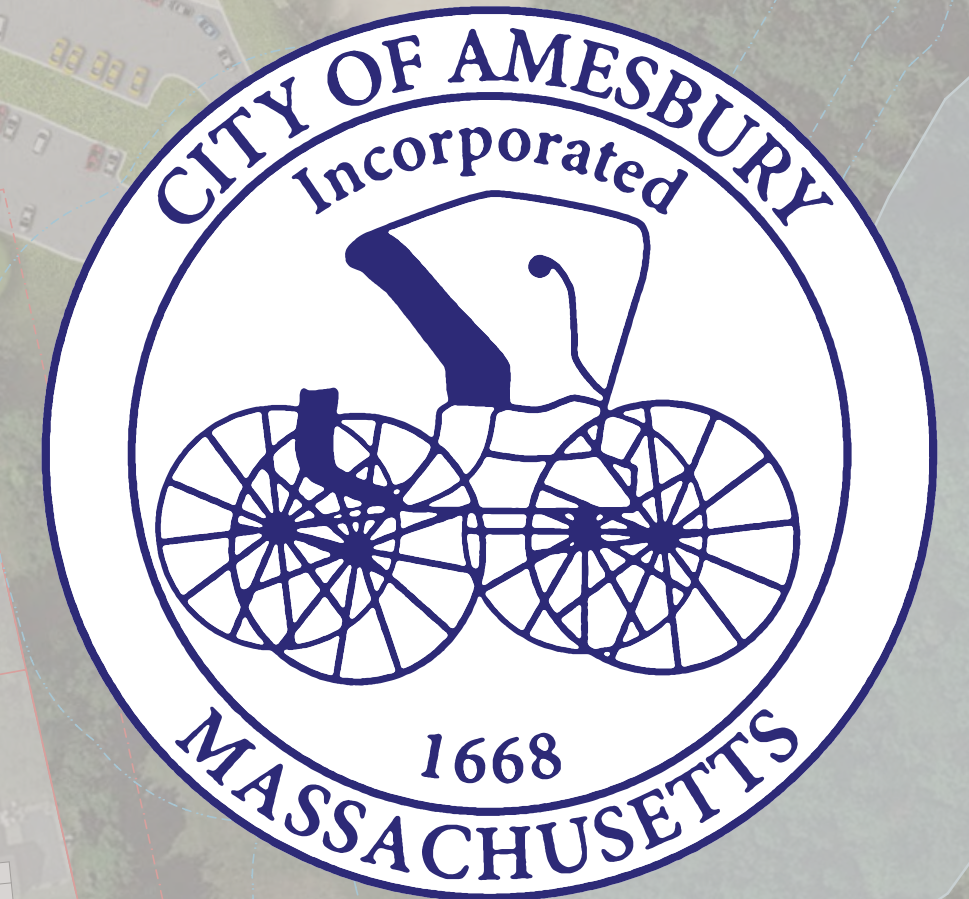




School Building Committee Meeting

June 11, 2020



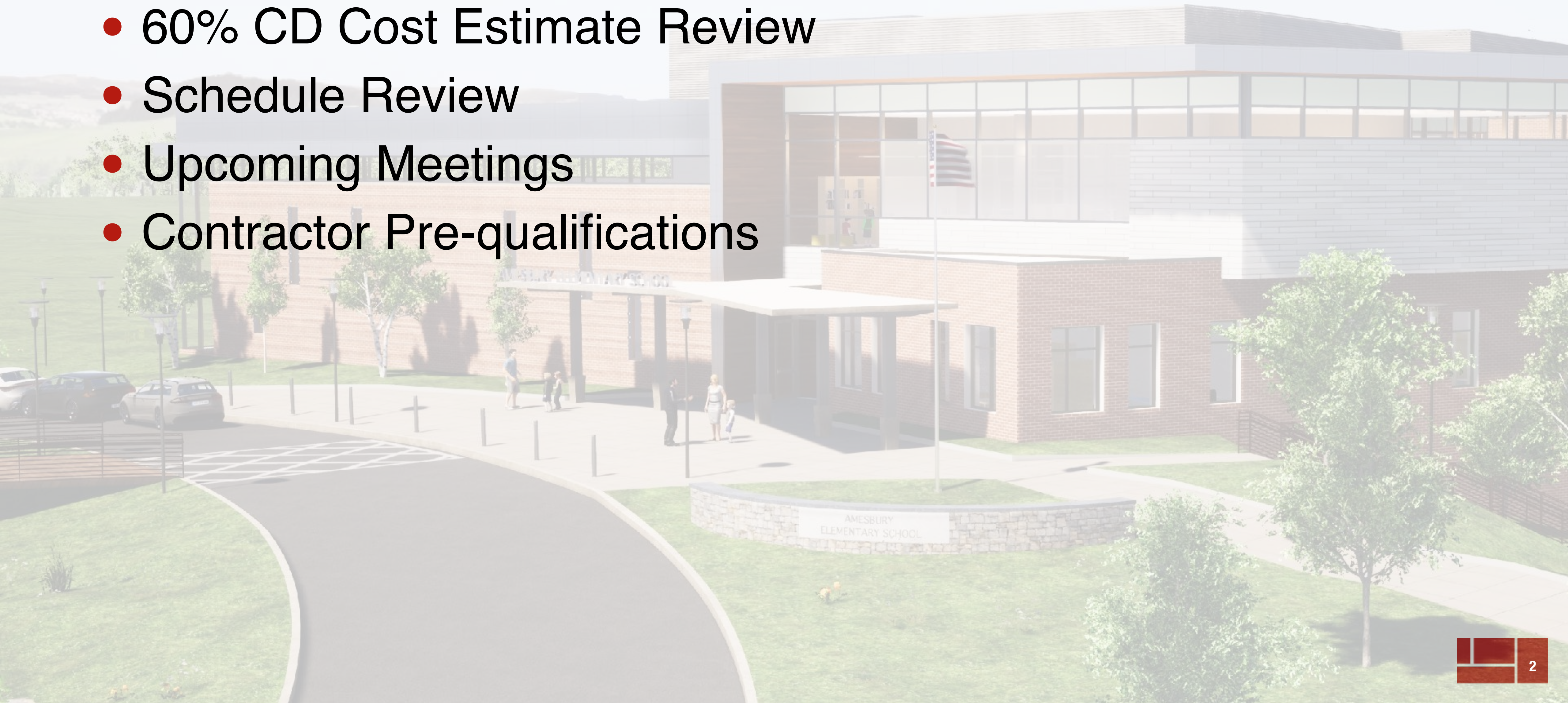
Amesbury Elementary School

 **DINISCO DESIGN**
architects + planners

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Agenda

- 60% CD Cost Estimate Review
- Schedule Review
- Upcoming Meetings
- Contractor Pre-qualifications



Cost Estimate Summary

AMESBURY ELEMENTARY SCHOOL: AMESBURY, MA											
60% CD Cost Estimate Reconciliation											
		GSF 98,195		GSF 98,195							
		ARCH Estimator (AM Fogarty)		OPM Estimator (PM & C)		Variance (AMF - PM&C)		PFA Budget		Variance (AMF - PFA Budget)	
		Total Amount	Cost/SF	Total Amount	Cost/SF	Total Amount	Cost/SF	Total Amount	Cost/SF	Total Amount	
A10	FOUNDATIONS	\$ 2,160,018	\$ 22.00	\$ 2,135,263	\$ 21.75	\$ 24,755	\$ 0.25	\$ 1,751,786	\$ 17.84	\$ 408,232	
	A1010 Standard Foundations	\$ 1,385,284	\$ 14.11	\$ 1,438,911	\$ 14.65	\$ (53,627)	\$ (0.55)	\$ 1,286,847	\$ 13.11	\$ 98,437	
	A1030 Slab on Grade	\$ 774,734	\$ 7.89	\$ 696,352	\$ 7.09	\$ 78,382	\$ 0.80	\$ 464,939	\$ 4.73	\$ 309,795	
B10	STRUCTURE	\$ 3,749,412	\$ 38.18	\$ 3,820,717	\$ 38.91	\$ (71,305)	\$ (0.73)	\$ 3,957,302	\$ 40.30	\$ (207,890)	
	B1010 Floor Construction	\$ 2,505,375	\$ 25.51	\$ 2,604,019	\$ 26.52	\$ (98,644)	\$ (1.00)	\$ 2,623,511	\$ 26.72	\$ (118,136)	
	B1020 Roof Construction	\$ 1,244,037	\$ 12.67	\$ 1,216,698	\$ 12.39	\$ 27,339	\$ 0.28	\$ 1,333,791	\$ 13.58	\$ (89,754)	
B20	EXTERIOR CLOSURE	\$ 5,010,964	\$ 51.03	\$ 4,775,937	\$ 48.64	\$ 235,027	\$ 2.39	\$ 4,813,108	\$ 49.02	\$ 197,856	
	B2010 Exterior Walls	\$ 3,544,515	\$ 36.10	\$ 3,381,893	\$ 34.44	\$ 162,622	\$ 1.66	\$ 3,404,390	\$ 34.67	\$ 140,125	
	B2020 Exterior Windows	\$ 1,353,393	\$ 13.78	\$ 1,297,128	\$ 13.21	\$ 56,265	\$ 0.57	\$ 1,312,996	\$ 13.37	\$ 40,397	
	B2030 Exterior Doors	\$ 113,056	\$ 1.15	\$ 96,916	\$ 0.99	\$ 16,140	\$ 0.16	\$ 95,722	\$ 0.97	\$ 17,334	
B30	ROOFING	\$ 1,062,959	\$ 10.82	\$ 1,033,369	\$ 10.52	\$ 29,590	\$ 0.30	\$ 974,991	\$ 9.93	\$ 87,968	
	B3010 Roof Coverings	\$ 1,043,419	\$ 10.63	\$ 1,010,236	\$ 10.29	\$ 33,183	\$ 0.34	\$ 968,616	\$ 9.86	\$ 74,803	
	B3020 Roof Openings	\$ 19,540	\$ 0.20	\$ 23,133	\$ 0.24	\$ (3,593)	\$ (0.04)	\$ 6,375	\$ 0.06	\$ 13,165	
C10	INTERIOR CONSTRUCTION	\$ 4,396,495	\$ 44.77	\$ 4,509,014	\$ 45.92	\$ (112,519)	\$ (1.15)	\$ 3,859,857	\$ 39.31	\$ 536,638	
	C1010 Partitions	\$ 2,718,652	\$ 27.69	\$ 2,702,540	\$ 27.52	\$ 16,112	\$ 0.16	\$ 2,429,050	\$ 24.74	\$ 289,602	
	C1020 Interior Doors	\$ 642,120	\$ 6.54	\$ 620,260	\$ 6.32	\$ 21,860	\$ 0.22	\$ 546,701	\$ 5.57	\$ 95,419	
	C1030 Specialties/Millwork	\$ 1,035,723	\$ 10.55	\$ 1,186,214	\$ 12.08	\$ (150,491)	\$ (1.53)	\$ 884,106	\$ 9.00	\$ 151,617	
C20	STAIRS	\$ 268,933	\$ 2.74	\$ 273,280	\$ 2.78	\$ (4,347)	\$ (0.04)	\$ 327,500	\$ 3.34	\$ (58,567)	
	C2010 Stair Construction	\$ 219,200	\$ 2.23	\$ 239,500	\$ 2.44	\$ (20,300)	\$ (0.21)	\$ 281,450	\$ 2.87	\$ (62,250)	
	C2020 Stair Finishes	\$ 49,733	\$ 0.51	\$ 33,780	\$ 0.34	\$ 15,953	\$ 0.16	\$ 46,050	\$ 0.47	\$ 3,683	
C30	INTERIOR FINISHES	\$ 2,786,199	\$ 28.37	\$ 2,767,813	\$ 28.19	\$ 18,386	\$ 0.19	\$ 2,709,297	\$ 27.59	\$ 76,902	
	C3010 Wall Finishes	\$ 908,473	\$ 9.25	\$ 893,314	\$ 9.10	\$ 15,159	\$ 0.15	\$ 881,397	\$ 8.98	\$ 27,076	
	C3020 Floor Finishes	\$ 912,194	\$ 9.29	\$ 890,391	\$ 9.07	\$ 21,803	\$ 0.22	\$ 997,240	\$ 10.16	\$ (85,046)	
	C3030 Ceiling Finishes	\$ 965,532	\$ 9.83	\$ 984,108	\$ 10.02	\$ (18,576)	\$ (0.19)	\$ 830,660	\$ 8.46	\$ 134,872	
D10	CONVEYING	\$ 189,000	\$ 1.92	\$ 185,000	\$ 1.88	\$ 4,000	\$ 0.04	\$ 174,000	\$ 1.77	\$ 15,000	
	D1010 Elevators & Lifts	\$ 189,000	\$ 1.92	\$ 185,000	\$ 1.88	\$ 4,000	\$ 0.04	\$ 174,000	\$ 1.77	\$ 15,000	
D20	PLUMBING	\$ 1,593,899	\$ 16.23	\$ 1,611,905	\$ 16.42	\$ (18,006)	\$ (0.18)	\$ 1,625,965	\$ 16.56	\$ (32,066)	
D30	HVAC	\$ 5,506,420	\$ 56.08	\$ 5,547,919	\$ 56.50	\$ (41,499)	\$ (0.42)	\$ 4,925,032	\$ 50.16	\$ 581,388	
D40	FIRE PROTECTION	\$ 525,193	\$ 5.35	\$ 542,296	\$ 5.52	\$ (17,103)	\$ (0.17)	\$ 476,381	\$ 4.85	\$ 48,812	
D50	ELECTRICAL	\$ 3,729,363	\$ 37.98	\$ 3,751,490	\$ 38.20	\$ (22,127)	\$ (0.23)	\$ 3,639,616	\$ 37.07	\$ 89,747	
E10	EQUIPMENT	\$ 639,927	\$ 6.52	\$ 622,525	\$ 6.34	\$ 17,402	\$ 0.18	\$ 607,648	\$ 6.19	\$ 32,279	
	E1010 Commercial Equipment	\$ 410,985	\$ 4.19	\$ 622,525	\$ 6.34	\$ (211,540)	\$ (2.15)	\$ 368,475	\$ 3.75	\$ 42,510	
	E1020 Other Equipment	\$ 228,942	\$ 2.33	\$ -	\$ -	\$ 228,942	\$ 2.33	\$ 239,173	\$ 2.44	\$ (10,231)	
E20	FURNISHINGS	\$ 1,324,396	\$ 13.49	\$ 1,355,983	\$ 13.81	\$ (31,587)	\$ (0.32)	\$ 1,369,707	\$ 13.95	\$ (45,311)	
	E2010 Fixed Furnishings	\$ 1,324,396	\$ 13.49	\$ 1,355,983	\$ 13.81	\$ (31,587)	\$ (0.32)	\$ 1,369,707	\$ 13.95	\$ (45,311)	
G10	SITE PREPARATION	\$ 1,576,498	\$ 16.05	\$ 1,567,399	\$ 15.96	\$ 9,099	\$ 0.09	\$ 1,393,930	\$ 14.20	\$ 182,568	
	G1010 Site Clearing	\$ 569,433	\$ 5.80	\$ -	\$ -	\$ 569,433	\$ 5.80	\$ 845,905	\$ 8.61	\$ (276,472)	
	G1020 Site Demolition & Relocations	\$ -	\$ -	\$ 235,250	\$ 2.40	\$ (235,250)	\$ (2.40)	\$ -	\$ -	\$ -	
	G1030 Site Earthwork	\$ 1,007,065	\$ 10.26	\$ 1,332,149	\$ 13.57	\$ (325,084)	\$ (3.31)	\$ 548,025	\$ 5.58	\$ 459,040	
	G1040 Hazardous Wate Remediation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
G20	SITE IMPROVEMENTS	\$ 3,961,798	\$ 40.35	\$ 4,093,479	\$ 41.69	\$ (131,681)	\$ (1.34)	\$ 4,086,886	\$ 41.62	\$ (125,088)	
	G2010 Roadways	\$ 1,633,991	\$ 16.64	\$ 3,332,783	\$ 33.94	\$ (1,698,792)	\$ (17.30)	\$ 1,690,155	\$ 17.21	\$ (56,164)	
	G2030 Pedestrian Paving	\$ 601,184	\$ 6.12	\$ -	\$ -	\$ 601,184	\$ 6.12	\$ 368,838	\$ 3.76	\$ 232,346	
	G2040 Site Development	\$ 992,767	\$ 10.11	\$ -	\$ -	\$ 992,767	\$ 10.11	\$ 1,571,421	\$ 16.00	\$ (578,654)	
	G2050 Landscaping	\$ 733,856	\$ 7.47	\$ 760,696	\$ 7.75	\$ (26,840)	\$ (0.27)	\$ 456,472	\$ 4.65	\$ 277,384	
G30	SITE MECHANICAL UTILITIES	\$ 1,637,569	\$ 16.68	\$ 1,708,339	\$ 17.40	\$ (70,770)	\$ (0.72)	\$ 1,447,039	\$ 14.74	\$ 190,530	
	G3010 Water Supply	\$ 278,171	\$ 2.83	\$ 296,900	\$ 3.02	\$ (18,729)	\$ (0.19)	\$ 234,145	\$ 2.38	\$ 44,026	
	G3020 Sanitary Sewer	\$ 226,976	\$ 2.31	\$ 235,350	\$ 2.40	\$ (8,374)	\$ (0.09)	\$ 210,251	\$ 2.14	\$ 16,725	

Cost Estimate Summary

AMESBURY ELEMENTARY SCHOOL: AMESBURY, MA

60% CD Cost Estimate Reconciliation

		GSF 98,195		GSF 98,195							
		ARCH Estimator (AM Fogarty)		OPM Estimator (PM & C)		Variance (AMF - PM&C)		PFA Budget		Variance (AMF - PFA Budget)	
		Total Amount	Cost/SF	Total Amount	Cost/SF	Total Amount	Cost/SF	Total Amount	Cost/SF	Total Amount	
	G3030 Storm Sewer	\$ 1,074,410	\$ 10.94	\$ 1,143,089	\$ 11.64	\$ (68,679)	\$ (0.70)	\$ 945,043	\$ 9.62	\$ 129,367	
	G3060 Fuel Distribution	\$ 58,012	\$ 0.59	\$ 33,000	\$ 0.34	\$ 25,012	\$ 0.25	\$ 57,600	\$ 0.59	\$ 412	
G40	SITE ELECTRICAL UTILITIES	\$ 945,284	\$ 9.63	\$ 915,560	\$ 9.32	\$ 29,724	\$ 0.30	\$ 906,882	\$ 9.24	\$ 38,402	
	G4010 Electrical Distribution	\$ 410,348	\$ 4.18	\$ 577,710	\$ 5.88	\$ (167,362)	\$ (1.70)	\$ 380,567	\$ 3.88	\$ 29,781	
	G4020 Site Lighting	\$ 534,936	\$ 5.45	\$ 337,850	\$ 3.44	\$ 197,086	\$ 2.01	\$ 476,315	\$ 4.85	\$ 58,621	
	G4030 Site Communications & Security	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ 0.51	\$ (50,000)	
SUB-TOTAL HARD CONSTRUCTION COSTS (-0.37%)		\$ 41,064,324	\$ 418.19	\$ 41,217,288	\$ 419.75	\$ (152,964)	\$ (1.56)	\$ 39,046,926	\$ 397.65	\$ 2,017,398	
	Design & Estimating Contingency (2.5%)	\$ 1,026,608	\$ 10.45	\$ 1,030,432	\$ 10.49	\$ (3,824)	\$ (0.04)	\$ 3,123,754	\$ 31.81	\$ (2,097,146)	
	Escalation (1.5%)	\$ 631,364	\$ 6.43	\$ 618,259	\$ 6.30	\$ 13,105	\$ 0.13	\$ 1,475,974	\$ 15.03	\$ (844,610)	
	General Conditions	\$ 2,563,338	\$ 26.10	\$ 2,571,959	\$ 26.19	\$ (8,621)	\$ (0.09)	\$ 2,618,799	\$ 26.67	\$ (55,461)	
	General Requirements	\$ 905,713	\$ -	\$ 857,320	\$ 8.73	\$ 48,393	\$ (8.73)	\$ 925,309	\$ -	\$ (19,596)	
	Bonds	\$ 808,349	\$ 8.23	\$ 385,794	\$ 3.93	\$ 422,555	\$ 4.30	\$ 825,838	\$ 8.41	\$ (17,489)	
	Insurances (incl above for AM Fogarty)	\$ -	\$ -	\$ 514,392	\$ 5.24	\$ (514,392)	\$ (5.24)	\$ -	\$ -	\$ -	
	OH&P	\$ 939,994	\$ 9.57	\$ 943,909	\$ 9.61	\$ (3,915)	\$ (0.04)	\$ 960,332	\$ 9.78	\$ (20,338)	
SUB-TOTAL CONSTRUCTION COST (-0.42%)		\$ 47,939,689	\$ 488.21	\$ 48,139,353	\$ 490.24	\$ (199,664)	\$ (2.03)	\$ 48,976,932	\$ 498.77	\$ (1,037,243)	
	Direct Purchase Playground Equipment	\$ 300,000	\$ 3.06	\$ 300,000	\$ 3.06	\$ -	\$ -	\$ -	\$ -	\$ 300,000	
	Early Site Package	\$ 689,551	\$ 7.02	\$ 622,766	\$ 6.34	\$ 66,785	\$ 0.68	\$ -	\$ -	\$ 689,551	
TOTAL ESTIMATED COST		\$ 48,929,240	\$ 498.29	\$ 49,062,119	\$ 499.64	\$ (132,879)	\$ (1.35)	\$ 48,976,932	\$ 498.77	\$ (47,692)	

60% CD PHASE VE/SCOPE MODIFICATION LIST		Recommended	Hold
1	Asphalt Sidewalk ILO Concrete at New Exit Road		\$ (23,159)
2	Eliminate Irrigation		\$ (123,200)
3	Abuse Resistant GWB ILO Remaining Tile at Stair B &C Walls		\$ (32,747)
4	Colored Concrete ILO Landscape Pavers @ Main Entry	\$ (31,200)	
5	Provide 2" Rigid Insulation at Below Slab Perimeter (2' width)	\$ 7,660	
TOTAL OF VE/SCOPE MODIFICATION ITEMS		\$ (23,540)	\$ (179,106)

TOTAL ESTIMATED COST W/ RECOMMENDED VE/SCOPE MOD. ITEMS	\$ 48,905,700		\$ 48,976,932	\$ 498.77	\$ (71,232)
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ALTERNATES		
1	Provide Warewash Machine in Room #009	\$ 44,946
2	Provide Provisions for Future All Electric Kitchen	\$ 18,766

* The list of VE/Scope Modification Items identified as recommended will be incorporated into the design during the 90% Construction Documents Phase

Value Management & Scope Summary

Value Engineering / Scope Modification Items	Recommend	Hold
Asphalt Sidewalk ILO Concrete at New Exit Road		(\$23,159)
Eliminate Irrigation		(\$123,200)
Abuse Resistant GWB ILO of Remaining Tile @ Stair B & C walls		(\$32,747)
Colored Concrete ILO Landscape Pavers @ Main Entry	(\$31,200)	
Provide 2" Rigid Insulation @ Below Slab Perimeter (2' of width)	\$7,660	
Total Value Engineering / Scope Modification Items	(\$23,540)	(\$179,106)

PFA Budget	\$48,976,932
60% CD Cost Estimate	\$48,929,240
Total Recommended VE/Scope Modifications	(\$23,540)
Total Estimated Cost with Recommended VE / Scope Modification Items	\$48,905,700
Variance between 60% CD Cost Estimate and PFA Budget	(\$71,232)

Alternates	
Provide Warewash Machine in Room 009	\$44,946
Provisions for Future All Electric Kitchen	\$18,766

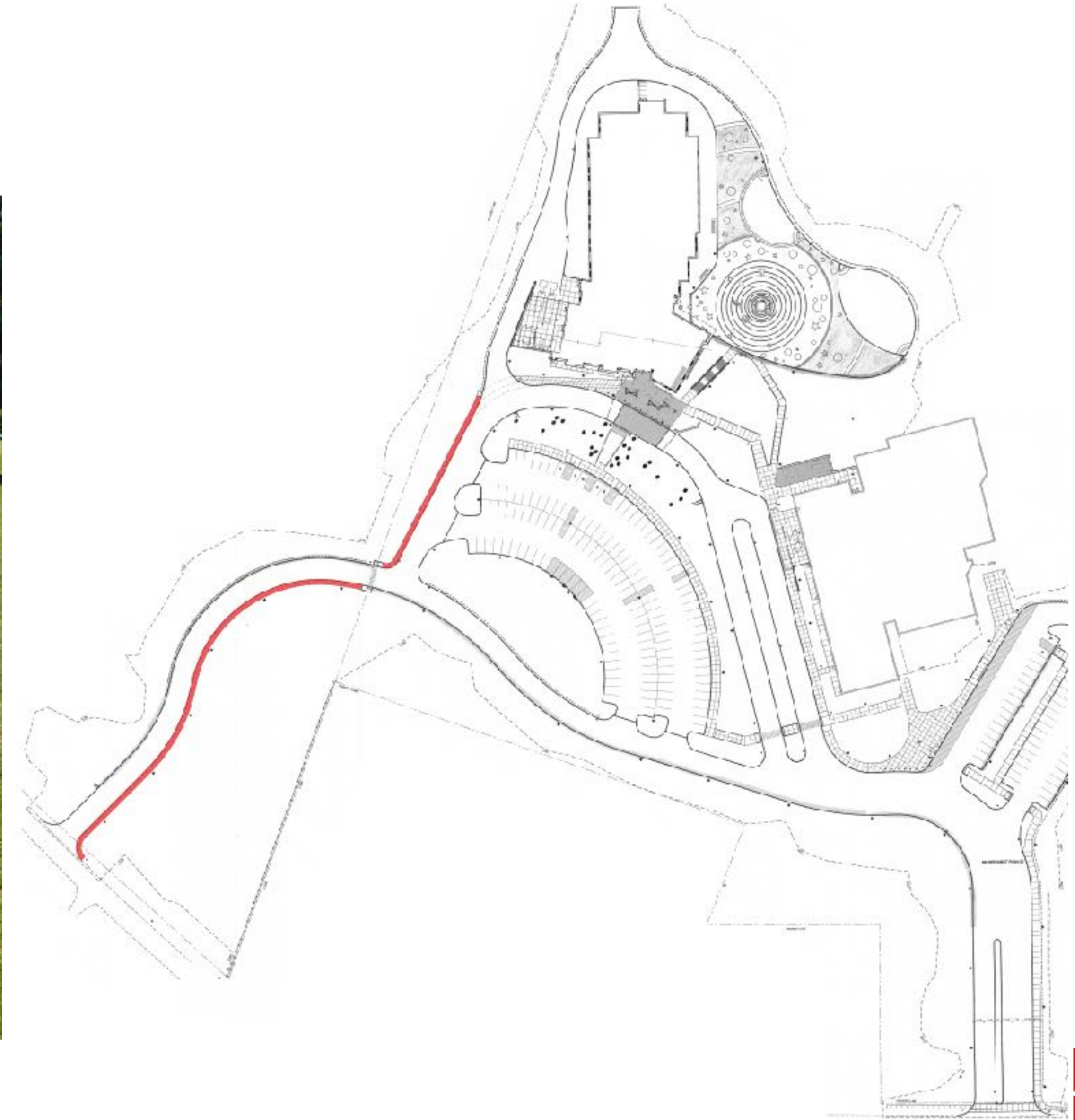
Value Engineering

- Asphalt sidewalk in lieu of concrete at new exit road

**Current
Design**



**Proposed
VE Design**



- Eliminate irrigation



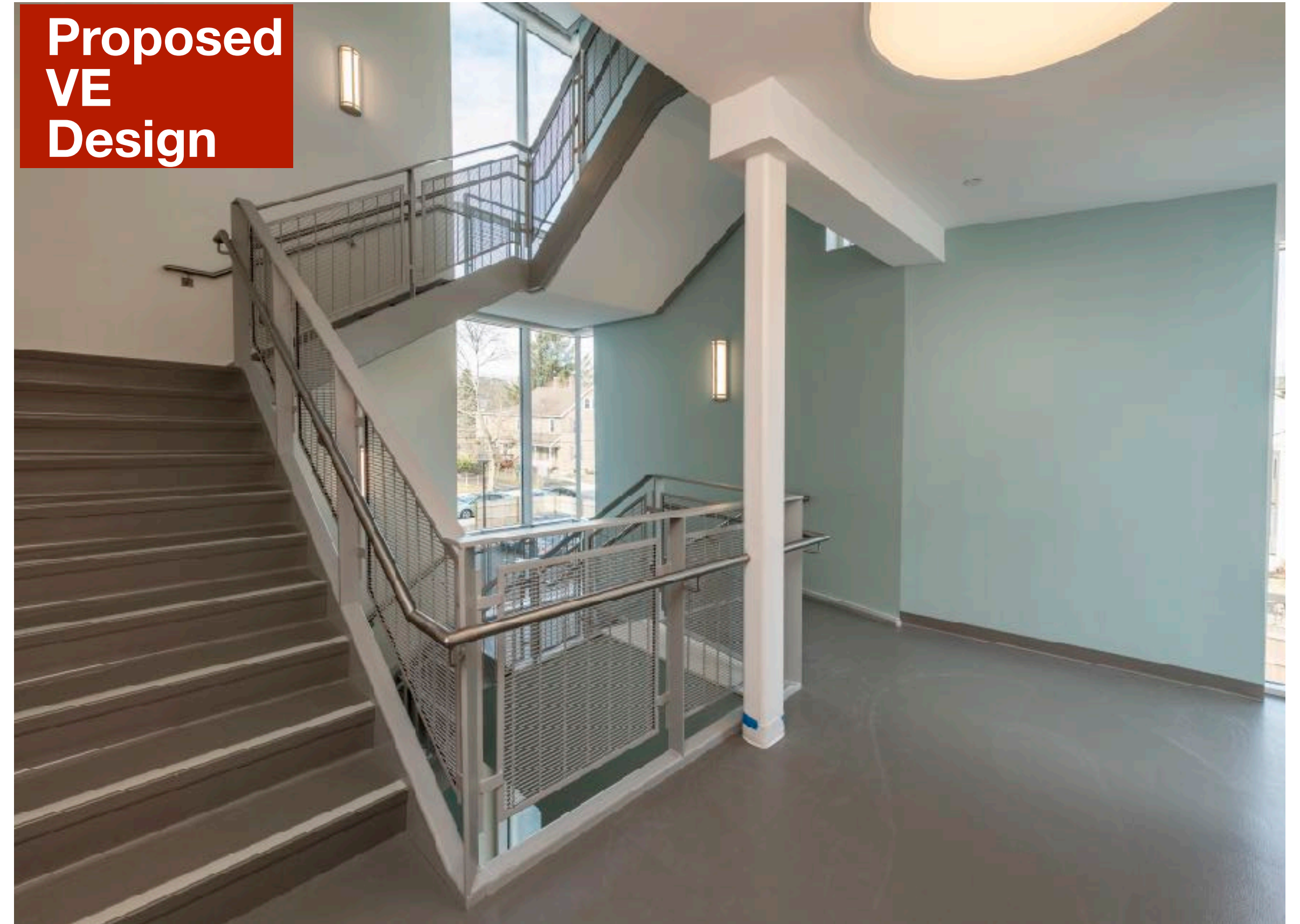
Value Engineering

- Abuse resistant GWB in lieu of tile @ stair B & C walls

Current
Design
Material



Proposed
VE
Design



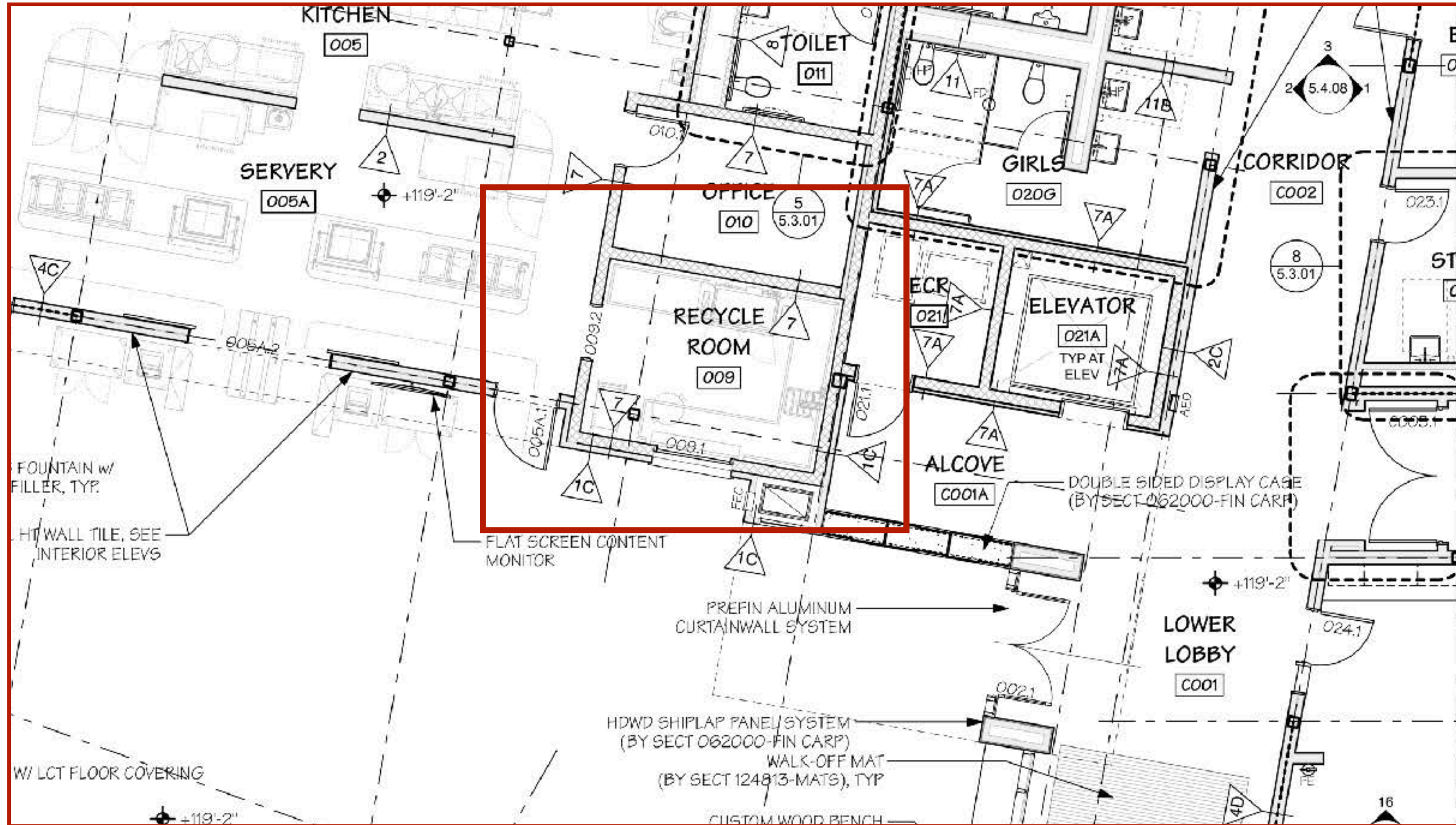
Scope Modifications

- Colored Concrete ILO Landscape Pavers @ Main Entry



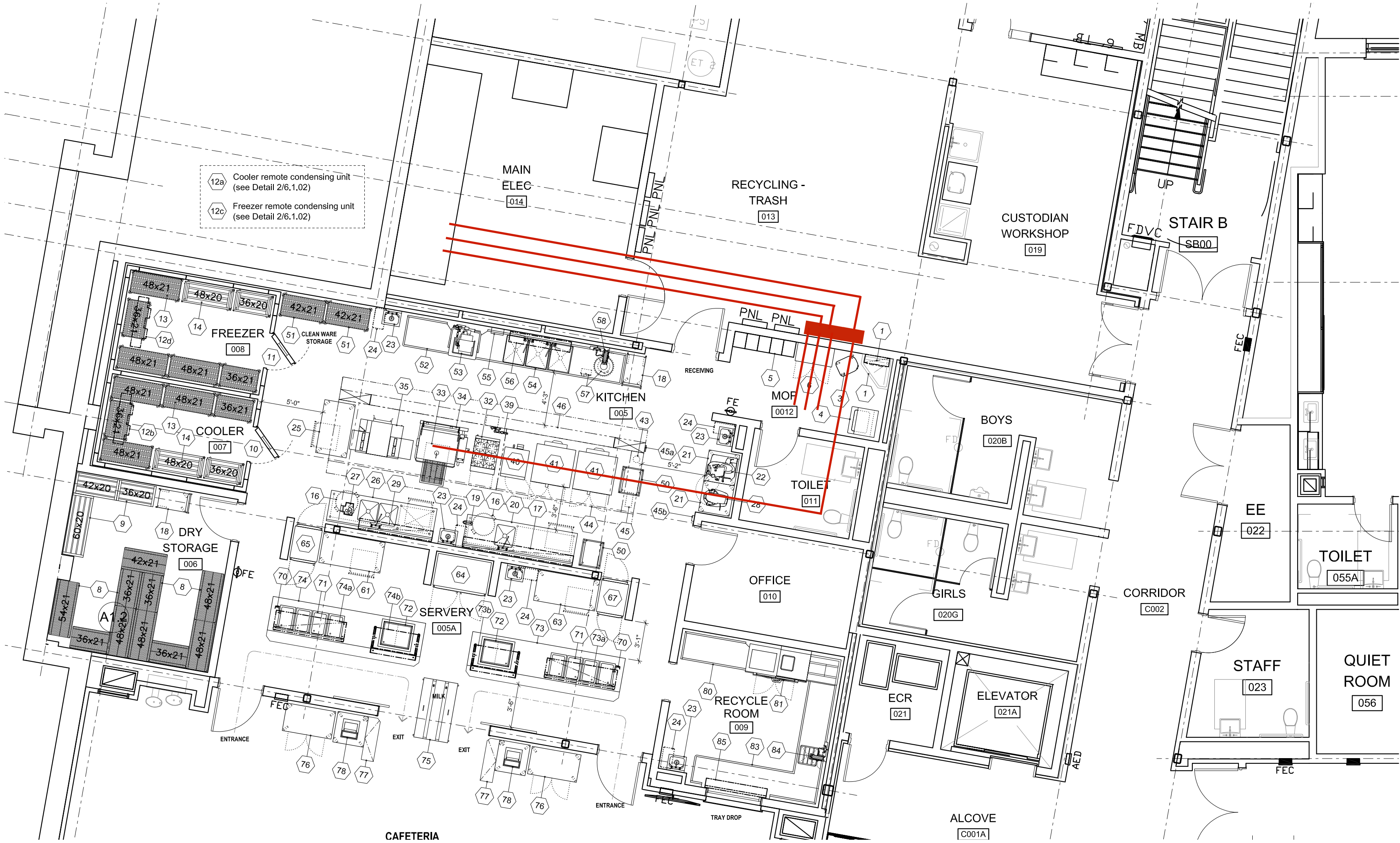
Alternate 1

- Provide Warewash Machine in Room 009



Alternate 2

- Provisions for Future All Electric Kitchen



Schedule | Summary

	Start	Finish	2020																																																2021																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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Projected CD/Bid Phase | Meetings & Milestones

- AESBC Mtg
- Permitting
- Design Milestone
- Working Group Mtg
- Bidding Milestone

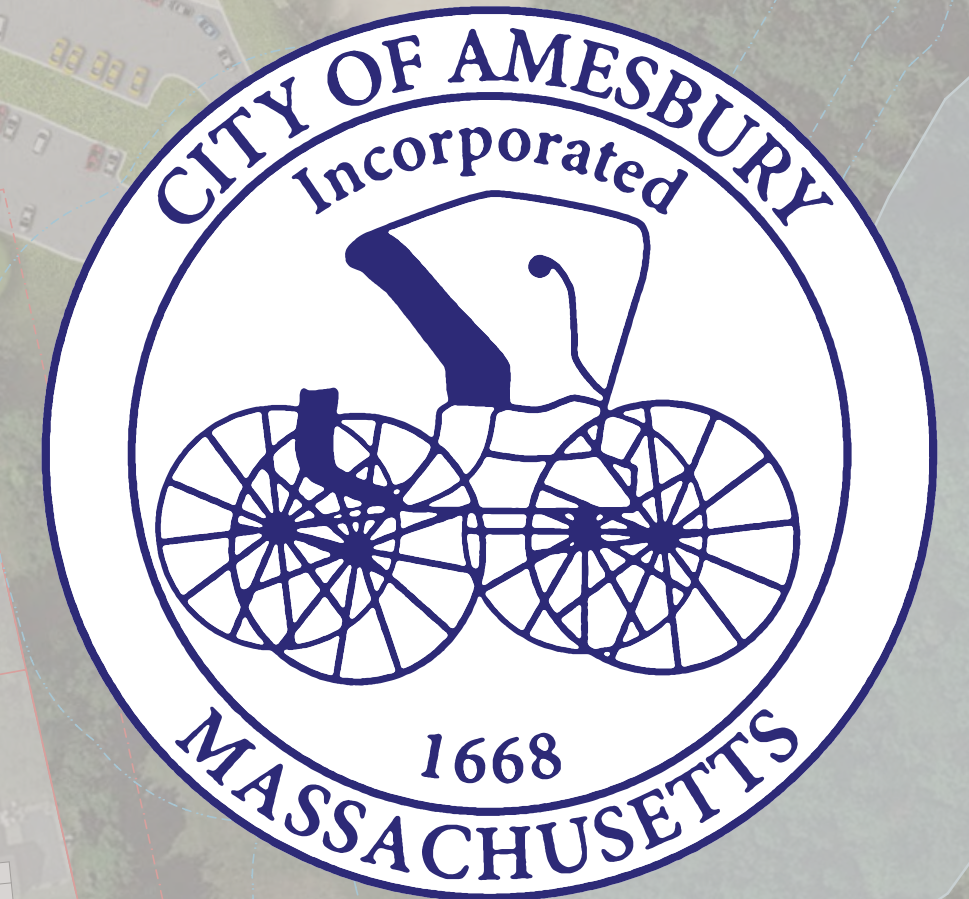
Meeting/Milestone	AESBC/WG Anticipated Agenda Items	Date
AESBC Meeting - May	Energy Committee Update, Prequalification Overview	28-May-20
60% CD Cost Est./Reconciliation Complete		5-Jun-20
WG Meeting	60% CD Estimate/VE	8-Jun-20
AESBC Meeting - June	60% CD Cost Estimate, VE, Submission to MSBA	11-Jun-20
Submit 60% CD Package to MSBA		15-Jun-20
PB Site Plan Review Meeting (No. 2)		22-Jun-20
WG Meeting	COVID-19 Considerations, Furniture Review of Type, Layout, etc.	23-Jun-20
WG Meeting	Feature Wall Design & Playground	30-Jun-20
RFQ for General and Subcontractors Issued		1-Jul-20
Cons. Comm. NOI Public Hearing (No. 2)		6-Jul-20
WG Meeting	Technology Budget	7-Jul-20
WG Meeting	Colors and Finishes Update	21-Jul-20
AESBC Meeting - July	General Update on Design Progress and WG Meeting Summary	23-Jul-20
PB Site Plan Review - Issue Approval		27-Jul-20
Cons. Comm. - Target for Draft OOC		3-Aug-20
Issue Early Site Package for Bid		12-Aug-20
AESBC Meeting - August	General Update on Design Progress	27-Aug-20

Meeting/Milestone	AESBC/WG Anticipated Agenda Items	Date
90% CD Docs Complete		21-Aug-20
Early Site Package Bids Due		2-Sep-20
Award Early Site Package Contract		8-Sep-20
90% CD Cost Est./Reconciliation Complete		11-Sep-20
AESBC Meeting - September	90% Cost Estimate, VE, Submission to MSBA	17-Sep-20
Pre-qualification Complete		18-Sep-20
Submit 90% CD Package to MSBA		21-Sep-20
Issue Main Bid Package		14-Oct-20
AESBC Meeting - October	TBD	22-Oct-20
AESBC Meeting - November	Review Filed-Sub Bids	19-Nov-20
General Contractor Bids Due		25-Nov-20



School Building Committee Meeting

June 11, 2020



Amesbury Elementary School

 **DINISCO DESIGN**
architects + planners

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