



School Building Committee Meeting

September 17, 2020

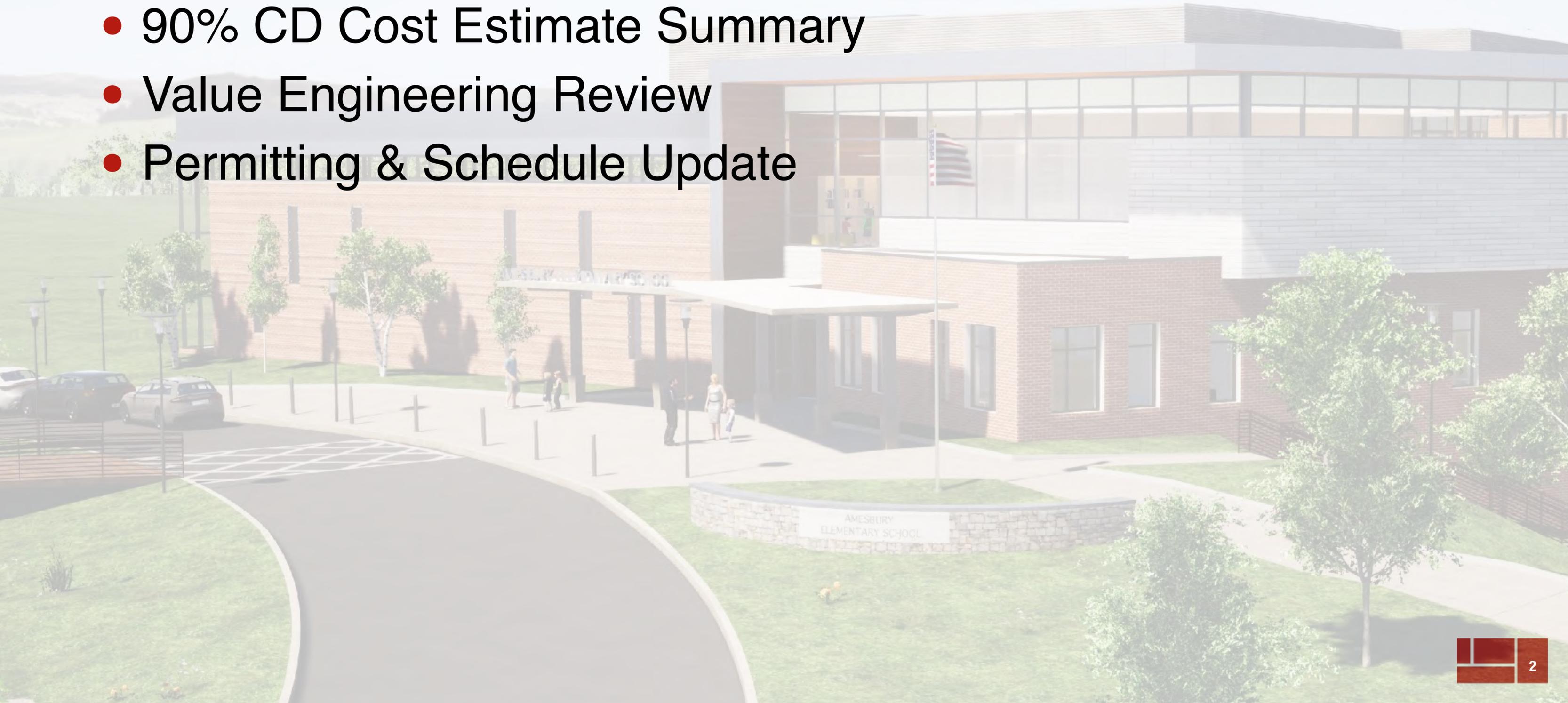


Amesbury Elementary School

 **DINISCO DESIGN**
architects + planners

Agenda

- 90% CD Cost Estimate Summary
- Value Engineering Review
- Permitting & Schedule Update



Cost Estimate Summary

AMESBURY ELEMENTARY SCHOOL: AMESBURY, MA

90% CD Cost Estimate Reconciliation 9/14/2020

		GSF 98,195		GSF 98,195		90% CD Variance (AMF - PM&C)		PFA Budget		Variance (AMF - PFA Budget)
		90% CD ARCH Estimator (AM Fogarty)		90% CD OPM Estimator (PM & C)		90% CD 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	\$ 2,566,650	\$ 26.14	\$ 2,448,696	\$ 24.94	\$ 117,954	\$ 0.05	\$ 1,751,786	\$ 17.84	\$ 814,864
	A1010 Standard Foundations	\$ 1,448,364	\$ 14.75	\$ 1,465,035	\$ 14.92	\$ (16,671)	\$ (0.17)	\$ 1,286,847	\$ 13.11	\$ 161,517
	A1030 Slab on Grade	\$ 1,118,286	\$ 11.39	\$ 983,661	\$ 10.02	\$ 134,625	\$ 1.37	\$ 464,939	\$ 4.73	\$ 653,347
B10	STRUCTURE	\$ 3,773,820	\$ 38.43	\$ 3,836,463	\$ 39.07	\$ (62,643)	\$ (0.64)	\$ 3,957,302	\$ 40.30	\$ (183,482)
	B1010 Floor Construction	\$ 2,551,143	\$ 25.98	\$ 2,614,666	\$ 26.63	\$ (63,523)	\$ (0.65)	\$ 2,623,511	\$ 26.72	\$ (72,368)
	B1020 Roof Construction	\$ 1,222,677	\$ 12.45	\$ 1,221,797	\$ 12.44	\$ 880	\$ 0.01	\$ 1,333,791	\$ 13.58	\$ (111,114)
B20	EXTERIOR CLOSURE	\$ 5,086,045	\$ 51.80	\$ 4,782,138	\$ 48.70	\$ 303,907	\$ 3.09	\$ 4,813,108	\$ 49.02	\$ 272,937
	B2010 Exterior Walls	\$ 3,529,294	\$ 35.94	\$ 3,346,535	\$ 34.08	\$ 182,759	\$ 1.86	\$ 3,404,390	\$ 34.67	\$ 124,904
	B2020 Exterior Windows	\$ 1,441,105	\$ 14.68	\$ 1,327,835	\$ 13.52	\$ 113,270	\$ 1.15	\$ 1,312,996	\$ 13.37	\$ 128,109
	B2030 Exterior Doors	\$ 115,646	\$ 1.18	\$ 107,768	\$ 1.10	\$ 7,878	\$ 0.08	\$ 95,722	\$ 0.97	\$ 19,924
B30	ROOFING	\$ 1,069,933	\$ 10.90	\$ 1,098,431	\$ 11.19	\$ (28,498)	\$ (0.29)	\$ 974,991	\$ 9.93	\$ 94,942
	B3010 Roof Coverings	\$ 1,050,393	\$ 10.70	\$ 1,075,298	\$ 10.95	\$ (24,905)	\$ (0.25)	\$ 968,616	\$ 9.86	\$ 81,777
	B3020 Roof Openings	\$ 19,540	\$ 0.20	\$ 23,133	\$ 0.24	\$ (3,593)	\$ (0.04)	\$ 6,375	\$ 0.06	\$ 13,165
C10	INTERIOR CONSTRUCTION	\$ 4,367,317	\$ 44.48	\$ 4,491,299	\$ 45.74	\$ (123,982)	\$ (1.26)	\$ 3,859,857	\$ 39.31	\$ 507,460
	C1010 Partitions	\$ 2,668,927	\$ 27.18	\$ 2,707,966	\$ 27.58	\$ (39,039)	\$ (0.40)	\$ 2,429,050	\$ 24.74	\$ 239,877
	C1020 Interior Doors	\$ 558,616	\$ 5.69	\$ 597,184	\$ 6.08	\$ (38,568)	\$ (0.39)	\$ 546,701	\$ 5.57	\$ 11,915
	C1030 Specialties/Millwork	\$ 1,139,774	\$ 11.61	\$ 1,186,149	\$ 12.08	\$ (46,375)	\$ (0.47)	\$ 884,106	\$ 9.00	\$ 255,668
C20	STAIRS	\$ 266,833	\$ 2.72	\$ 271,780	\$ 2.77	\$ (4,947)	\$ (0.05)	\$ 327,500	\$ 3.34	\$ (60,667)
	C2010 Stair Construction	\$ 217,100	\$ 2.21	\$ 238,000	\$ 2.42	\$ (20,900)	\$ (0.21)	\$ 281,450	\$ 2.87	\$ (64,350)
	C2020 Stair Finishes	\$ 49,733	\$ 0.51	\$ 33,780	\$ 0.34	\$ 15,953	\$ 0.16	\$ 46,050	\$ 0.47	\$ 3,683
C30	INTERIOR FINISHES	\$ 2,758,527	\$ 28.09	\$ 2,771,452	\$ 28.22	\$ (12,925)	\$ (0.13)	\$ 2,709,297	\$ 27.59	\$ 49,230
	C3010 Wall Finishes	\$ 864,166	\$ 8.80	\$ 890,208	\$ 9.07	\$ (26,042)	\$ (0.27)	\$ 881,397	\$ 8.98	\$ (17,231)
	C3020 Floor Finishes	\$ 912,194	\$ 9.29	\$ 895,738	\$ 9.12	\$ 16,456	\$ 0.17	\$ 997,240	\$ 10.16	\$ (85,046)
	C3030 Ceiling Finishes	\$ 982,167	\$ 10.00	\$ 985,506	\$ 10.04	\$ (3,339)	\$ (0.03)	\$ 830,660	\$ 8.46	\$ 151,507
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	\$ 1,634,218	\$ 16.64	\$ 1,615,525	\$ 16.45	\$ 18,693	\$ 0.19	\$ 1,625,965	\$ 16.56	\$ 8,253
D30	HVAC	\$ 5,685,397	\$ 57.90	\$ 5,610,533	\$ 57.14	\$ 74,864	\$ 0.76	\$ 4,925,032	\$ 50.16	\$ 760,365
D40	FIRE PROTECTION	\$ 521,843	\$ 5.31	\$ 561,052	\$ 5.71	\$ (39,209)	\$ (0.40)	\$ 476,381	\$ 4.85	\$ 45,462
D50	ELECTRICAL	\$ 3,629,879	\$ 36.97	\$ 3,752,522	\$ 38.22	\$ (122,643)	\$ (1.25)	\$ 3,639,616	\$ 37.07	\$ (9,737)
E10	EQUIPMENT	\$ 639,927	\$ 6.52	\$ 624,025	\$ 6.35	\$ 15,902	\$ 0.16	\$ 607,648	\$ 6.19	\$ 32,279
	E1010 Commercial Equipment	\$ 410,985	\$ 4.19	\$ 624,025	\$ 6.35	\$ (213,040)	\$ (2.17)	\$ 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	\$ 1,357,942	\$ 13.83	\$ 1,358,724	\$ 13.84	\$ (782)	\$ (0.01)	\$ 1,369,707	\$ 13.95	\$ (11,765)
	E2010 Fixed Furnishings	\$ 1,357,942	\$ 13.83	\$ 1,358,724	\$ 13.84	\$ (782)	\$ (0.01)	\$ 1,369,707	\$ 13.95	\$ (11,765)
	E2020 Movable Furnishings	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
F20	SELECTIVE BUILDING DEMOLITION	\$ 750	\$ 0.01	\$ -	\$ -	\$ 750	\$ 0.01	\$ -	\$ -	\$ 750
G10	SITE PREPARATION	\$ 2,906,522	\$ 29.60	\$ 3,085,808	\$ 31.43	\$ (179,286)	\$ (1.83)	\$ 1,393,930	\$ 14.20	\$ 1,512,592
	G1010 Site Clearing	\$ 783,100	\$ 7.97	\$ 560,338	\$ 5.71	\$ 222,762	\$ 2.27	\$ 845,905	\$ 8.61	\$ (62,805)
	G1020 Site Demolition & Relocations	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	G1030 Site Earthwork	\$ 2,123,422	\$ 21.62	\$ 2,525,470	\$ 25.72	\$ (402,048)	\$ (4.09)	\$ 548,025	\$ 5.58	\$ 1,575,397
	G1040 Hazardous Waste Remediation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
G20	SITE IMPROVEMENTS	\$ 4,062,787	\$ 41.37	\$ 4,040,478	\$ 41.15	\$ 22,309	\$ 0.23	\$ 4,086,886	\$ 41.62	\$ (24,099)
	G2010 Roadways	\$ 1,686,659	\$ 17.18	\$ 1,618,580	\$ 16.48	\$ 68,079	\$ 0.69	\$ 1,690,155	\$ 17.21	\$ (3,496)
	G2030 Pedestrian Paving	\$ 585,383	\$ 5.96	\$ 591,986	\$ 6.03	\$ (6,603)	\$ (0.07)	\$ 368,838	\$ 3.76	\$ 216,545
	G2040 Site Development	\$ 959,798	\$ 9.77	\$ 994,603	\$ 10.13	\$ (34,805)	\$ (0.35)	\$ 1,571,421	\$ 16.00	\$ (611,623)
	G2050 Landscaping	\$ 830,947	\$ 8.46	\$ 835,309	\$ 8.51	\$ (4,362)	\$ (0.04)	\$ 456,472	\$ 4.65	\$ 374,475

Cost Estimate Summary

AMESBURY ELEMENTARY SCHOOL: AMESBURY, MA

90% CD Cost Estimate Reconciliation 9/14/2020

		GSF 98,195		GSF 98,195		90% CD Variance (AMF - PM&C)		PFA Budget		Variance (AMF - PFA Budget)
		90% CD ARCH Estimator (AM Fogarty)		90% CD OPM Estimator (PM & C)						
		Total Amount	Cost/SF	Total Amount	Cost/SF	Total Amount	Cost/SF	Total Amount	Cost/SF	Total Amount
G30	SITE MECHANICAL UTILITIES	\$ 1,709,257	\$ 17.41	\$ 1,767,467	\$ 18.00	\$ (58,210)	\$ (0.59)	\$ 1,447,039	\$ 14.74	\$ 262,218
	G3010 Water Supply	\$ 286,533	\$ 2.92	\$ 366,350	\$ 3.73	\$ (79,817)	\$ (0.81)	\$ 234,145	\$ 2.38	\$ 52,388
	G3020 Sanitary Sewer	\$ 152,946	\$ 1.56	\$ 179,800	\$ 1.83	\$ (26,854)	\$ (0.27)	\$ 210,251	\$ 2.14	\$ (57,305)
	G3030 Storm Sewer	\$ 1,199,094	\$ 12.21	\$ 1,172,617	\$ 11.94	\$ 26,477	\$ 0.27	\$ 945,043	\$ 9.62	\$ 254,051
	G3060 Fuel Distribution	\$ 70,684	\$ 0.72	\$ 48,700	\$ 0.50	\$ 21,984	\$ 0.22	\$ 57,600	\$ 0.59	\$ 13,084
G40	SITE ELECTRICAL UTILITIES	\$ 923,399	\$ 9.40	\$ 1,006,610	\$ 10.25	\$ (83,211)	\$ (0.85)	\$ 906,882	\$ 9.24	\$ 16,517
	G4010 Electrical Distribution	\$ 411,297	\$ 4.19	\$ 663,360	\$ 6.76	\$ (252,063)	\$ (2.57)	\$ 380,567	\$ 3.88	\$ 30,730
	G4020 Site Lighting	\$ 512,102	\$ 5.22	\$ 343,250	\$ 3.50	\$ 168,852	\$ 1.72	\$ 476,315	\$ 4.85	\$ 35,787
	G4030 Site Communications & Security	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 50,000	\$ 0.51	\$ (50,000)
SUB-TOTAL HARD CONSTRUCTION COSTS (I		\$ 43,150,042	\$ 439.43	\$ 43,308,003	\$ 441.04	\$ (157,961)	\$ (1.61)	\$ 39,046,926	\$ 397.65	\$ 4,103,116
	Design & Estimating Contingency (1.0%)	\$ 431,500	\$ 4.39	\$ 433,080	\$ 4.41	\$ (1,580)	\$ (0.02)	\$ 3,123,754	\$ 31.81	\$ (2,692,254)
	Escalation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,475,974	\$ 15.03	\$ (1,475,974)
	General Conditions	\$ 2,614,893	\$ 26.63	\$ 2,624,465	\$ 26.73	\$ (9,572)	\$ (0.10)	\$ 2,618,799	\$ 26.67	\$ (3,906)
	General Requirements	\$ 923,929	\$ -	\$ 874,822	\$ 8.91	\$ 49,107	\$ (8.91)	\$ 925,309	\$ -	\$ (1,380)
	Bonds	\$ 824,606	\$ 8.40	\$ 393,670	\$ 4.01	\$ 430,936	\$ 4.39	\$ 825,838	\$ 8.41	\$ (1,232)
	Insurances (incl above for AM Fogarty)	\$ -	\$ -	\$ 524,893	\$ 5.35	\$ (524,893)	\$ (5.35)	\$ -	\$ -	\$ -
	OH&P	\$ 958,899	\$ 9.77	\$ 963,179	\$ 9.81	\$ (4,280)	\$ (0.04)	\$ 960,332	\$ 9.78	\$ (1,433)
SUB-TOTAL CONSTRUCTION COST		\$ 48,903,869	\$ 498.03	\$ 49,122,112	\$ 500.25	\$ (218,243)	\$ (2.22)	\$ 48,976,932	\$ 498.77	\$ (73,063)
	Direct Purchase Playground Equipment	\$ 300,000	\$ 3.06	\$ 300,000	\$ 3.06	\$ -	\$ -	\$ -	\$ -	\$ 300,000
	Early Site Package	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
TOTAL ESTIMATED COST		\$ 49,203,869	\$ 501.08	\$ 49,422,112	\$ 503.31	\$ (218,243)	\$ (2.22)	\$ 48,976,932	\$ 498.77	\$ 226,937

ALTERNATES		
1	Provide Warewash Machine in Room #009	\$ 44,946
2	Provide Provisions for Future All Electric Kitchen	\$ 18,766
3	Composite Panel Roof Edge Detail	\$ 46,893

Value Management & Scope Summary

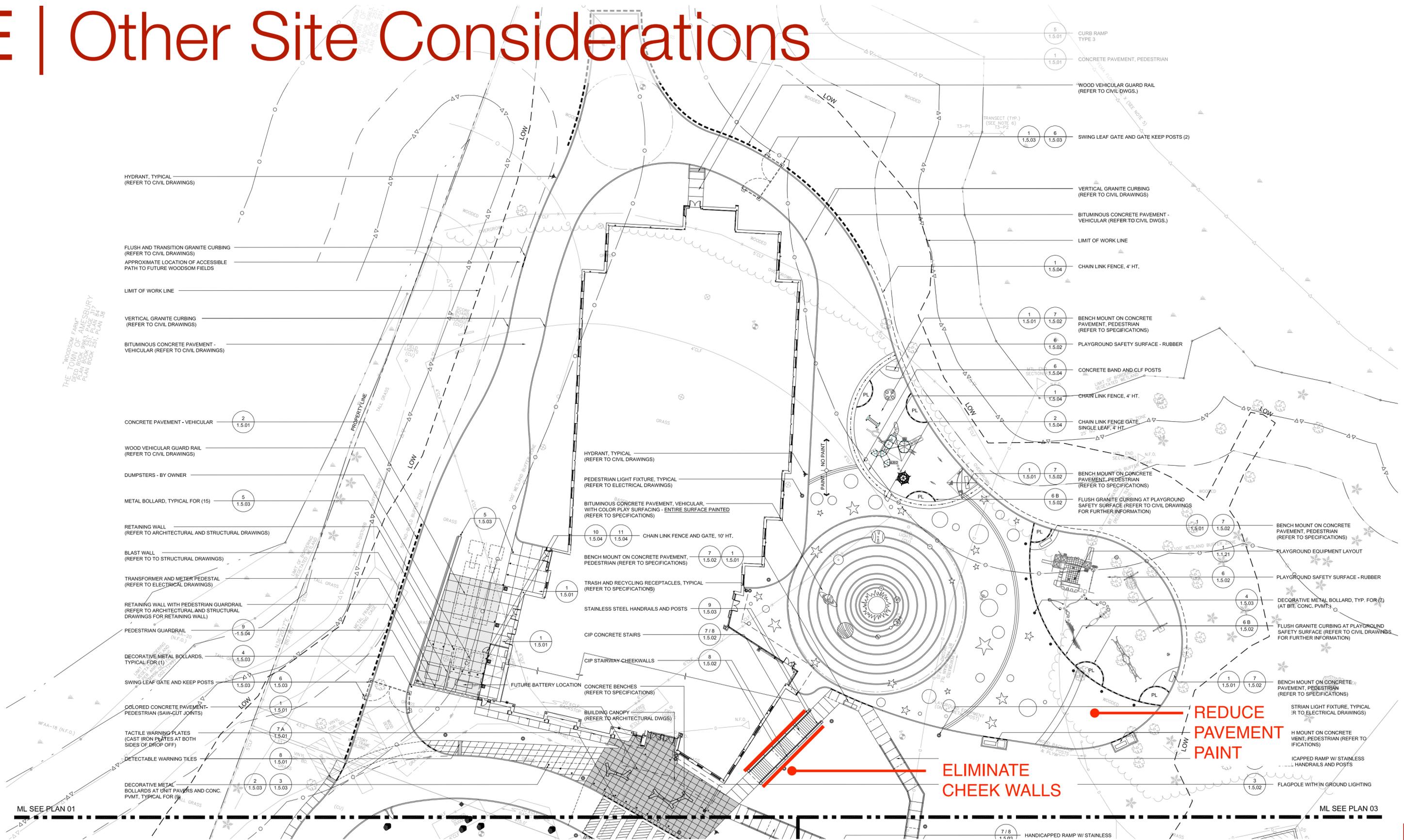
Value Engineering / Scope Modification Items	Recommend	Hold
Asphalt Sidewalk ILO Concrete at New Exit Road		(\$24,653)
Eliminate Irrigation		(\$133,375)
Abuse Resistant GWB ILO of Remaining Tile @ Stair B & C walls		(\$35,194)
Eliminate cheek wall at site stairs	(\$29,779)	
Replace precast sign panel with stone veneer (at entry site wall)	(\$2,707)	
Reduce playground pavement paint by 1,700 SF	(\$3,835)	
Eliminate irrigation at plant beds (keep only at lawn areas)	(\$14,438)	
Eliminate conduit to future ADA EV charging station (ADD ALTERNATE)	(\$3,610)	
Straight pedestrian bridge ILO tapered bridge	(\$11,280)	
Eliminate all aluminum trim fins at brick facade	(\$36,547)	
Brick (Ironspot) ILO metal panel at gym bump outs	(\$7,851)	
Eliminate Stair C East curtainwall (5'x35'), replace w/ metal panel infill	(\$6,317)	
Reduce Stair C West curtainwall by one bay (3'x35'), replace w/ metal panel infill	(\$3,790)	
Reduce Gym curtainwall at east elevation (3'x4') & eliminate at north elevation (4'x27'), infill w/ metal panel	(\$3,898)	
Eliminate green roof trays (Change doors to windows, add stone ballast, eliminate parapet, add typ roof edge)	(\$33,276)	
Reduce main office storefront by 50%	(\$2,893)	
Eliminate clerestory between PT & Corridor	(\$8,037)	
Reduce clerestory between EL & Title 1 by 50%	(\$4,822)	
Reduce ceramic tile in stairs B & C to floor landing only	(\$16,751)	
Eliminate hand dryers, GC to install Owner provided paper towel dispensers	(\$22,507)	
Reduce lobby display cases by 50%	(\$8,460)	
Reduce main lobby bench by 50%	(\$3,948)	
Reduce length of Media Center circulation desk by 2'	(\$2,820)	
Total Value Engineering / Scope Modification Items	(\$227,566)	(\$193,222)

Value Management & Scope Summary

PFA Budget	\$48,976,932
90% CD Cost Estimate	\$49,203,869
Total Recommended VE/Scope Modifications	-\$227,566
Total Estimated Cost with Recommended VE / Scope Modification Items	\$48,976,303
Variance between 90% CD Cost Estimate and PFA Budget	(\$629)

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

VE | Other Site Considerations

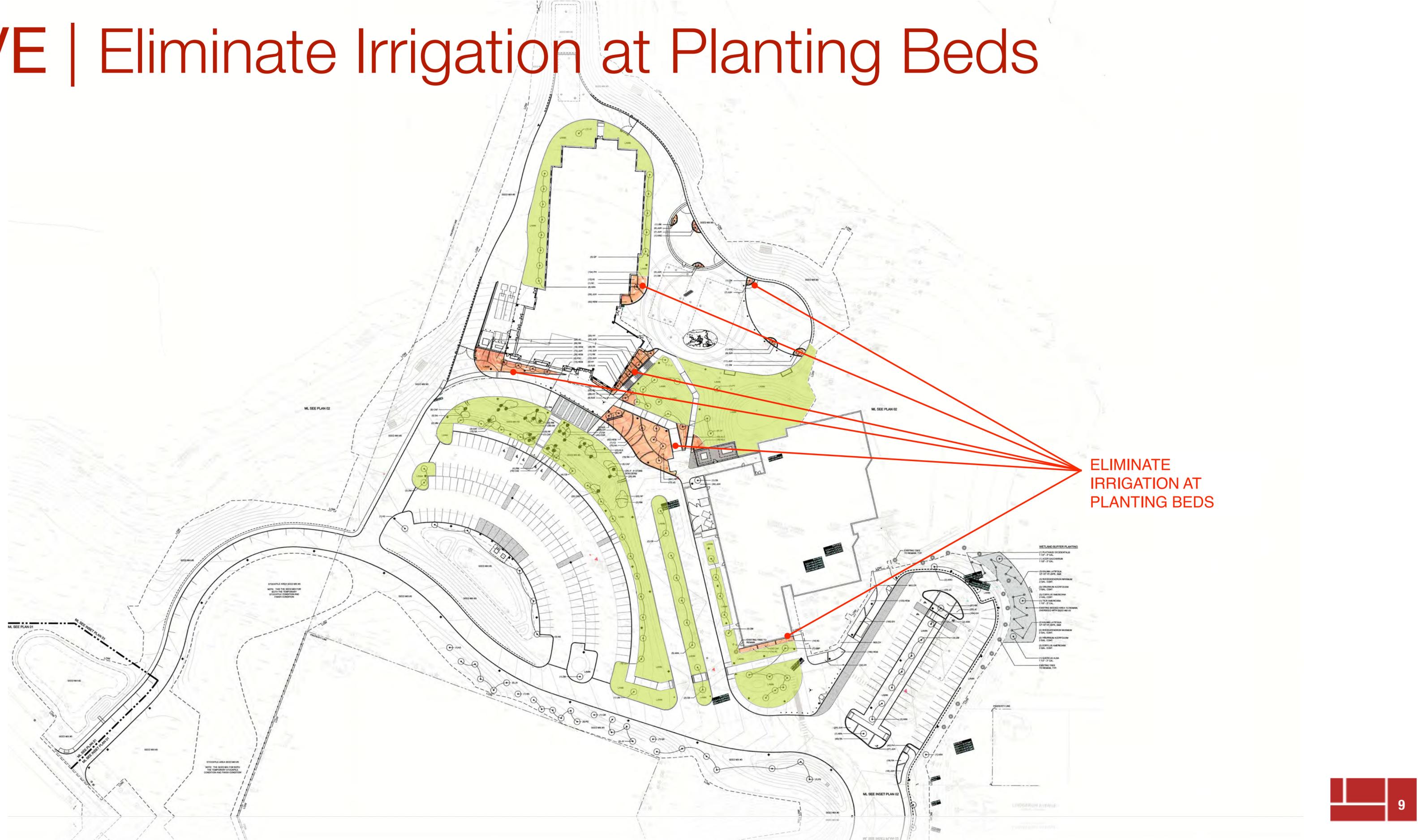


"WOODSOM FARM"
 DEED BOOK 9863, AMESBURY
 PLAN BOOK 251, PAGE 317
 PLAN BOOK 251, PAGE 317
 PLAN BOOK 251, PAGE 317

ML SEE PLAN 01

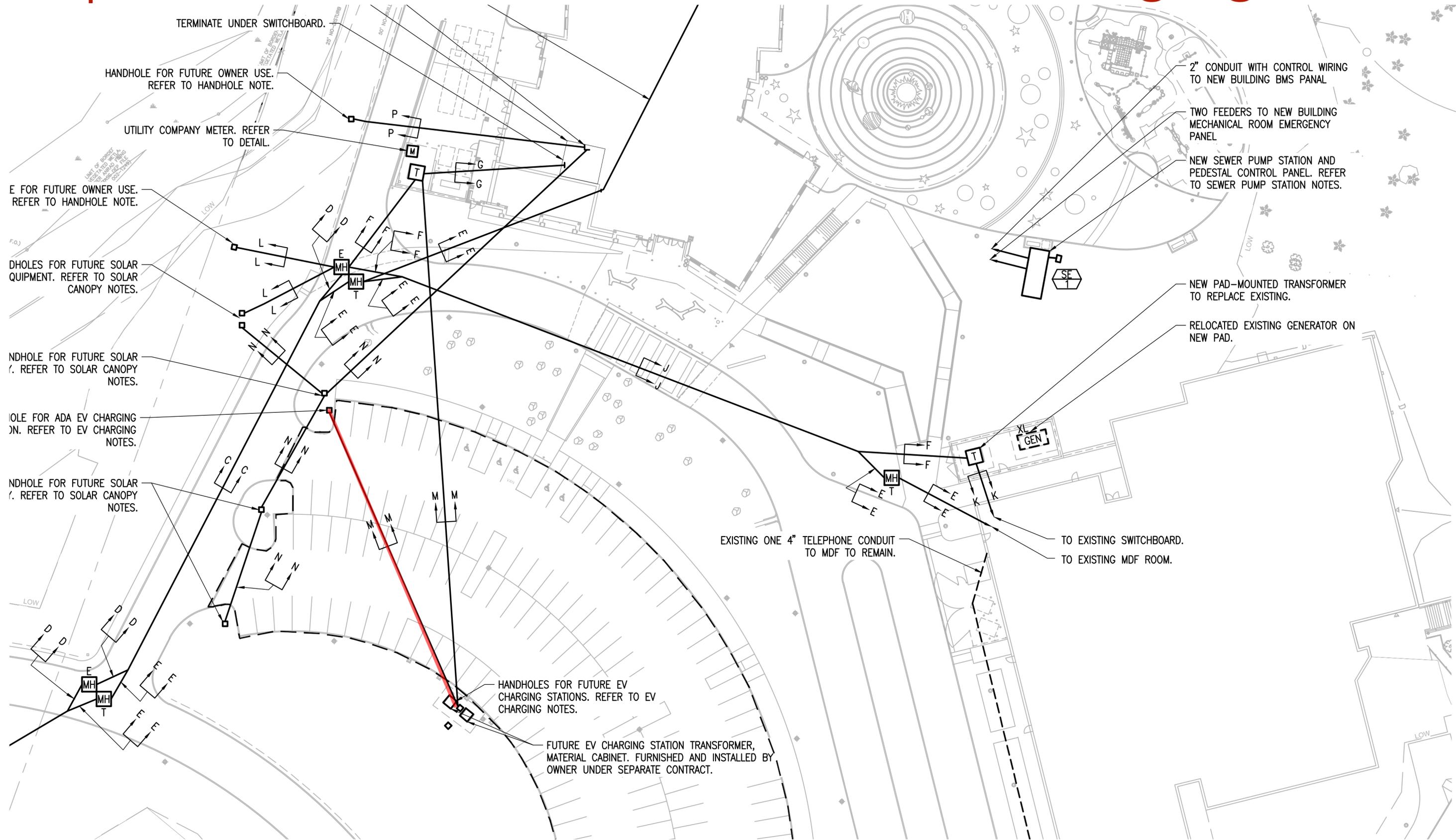
ML SEE PLAN 03

VE | Eliminate Irrigation at Planting Beds



**ELIMINATE
IRRIGATION AT
PLANTING BEDS**

VE | Eliminate Conduit to ADA EV Charging Station



VE | Eliminate Alum Trim / Curtainwall @ Stair C East



VE | Reduce Curtainwall @ Stair C West



VE | Replace Metal Panel @ Gym Bump Outs w/ Brick



VE | Reduce Gym Curtainwall at North & West Elev



VE | Eliminate Green Roof Trays



VE | Interior Considerations



VE | Interior Considerations



VE | Reduce Clerestory Glass Between Classrooms

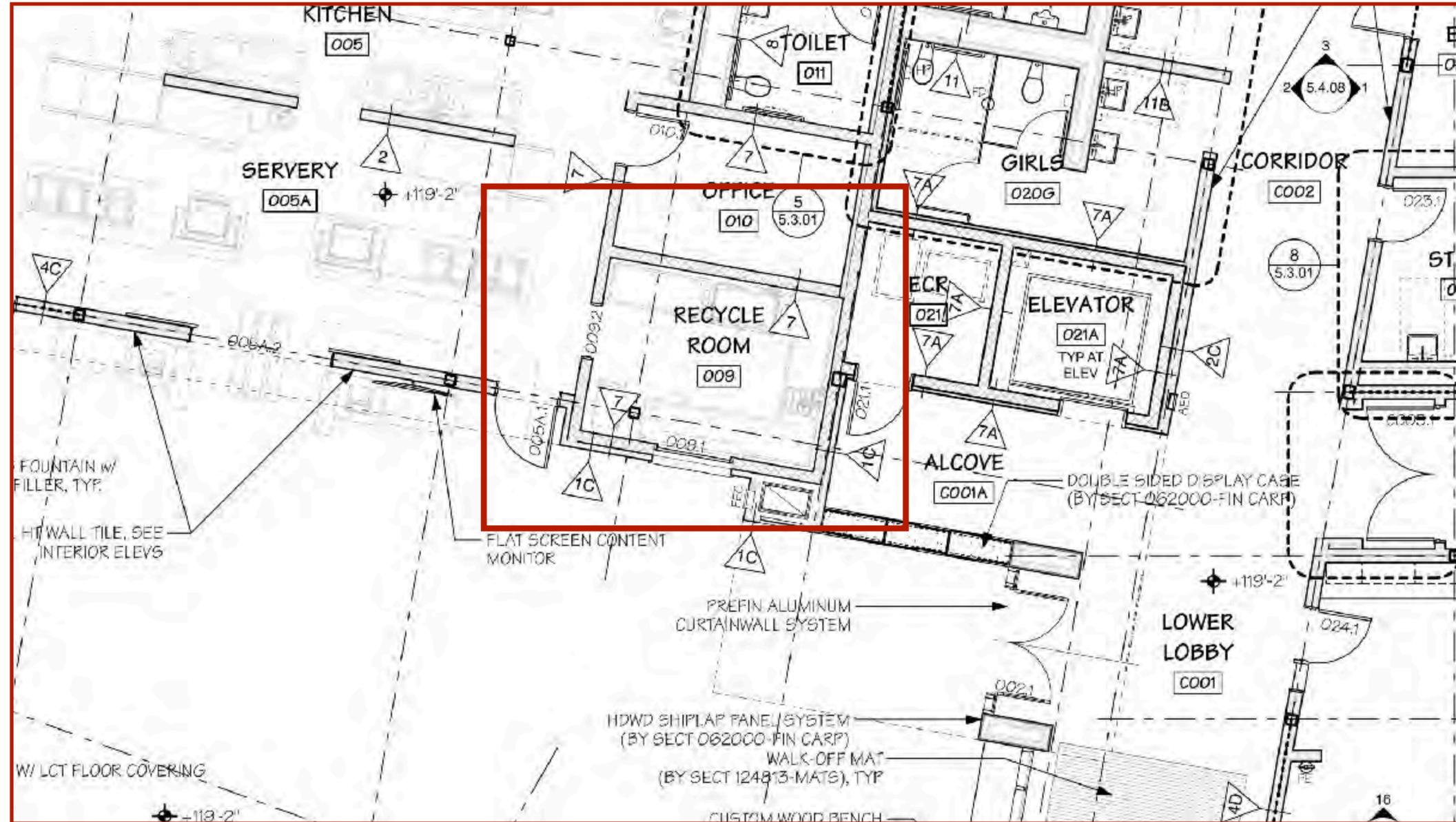


VE | Reduce Lobby Bench/Main Office Storefront



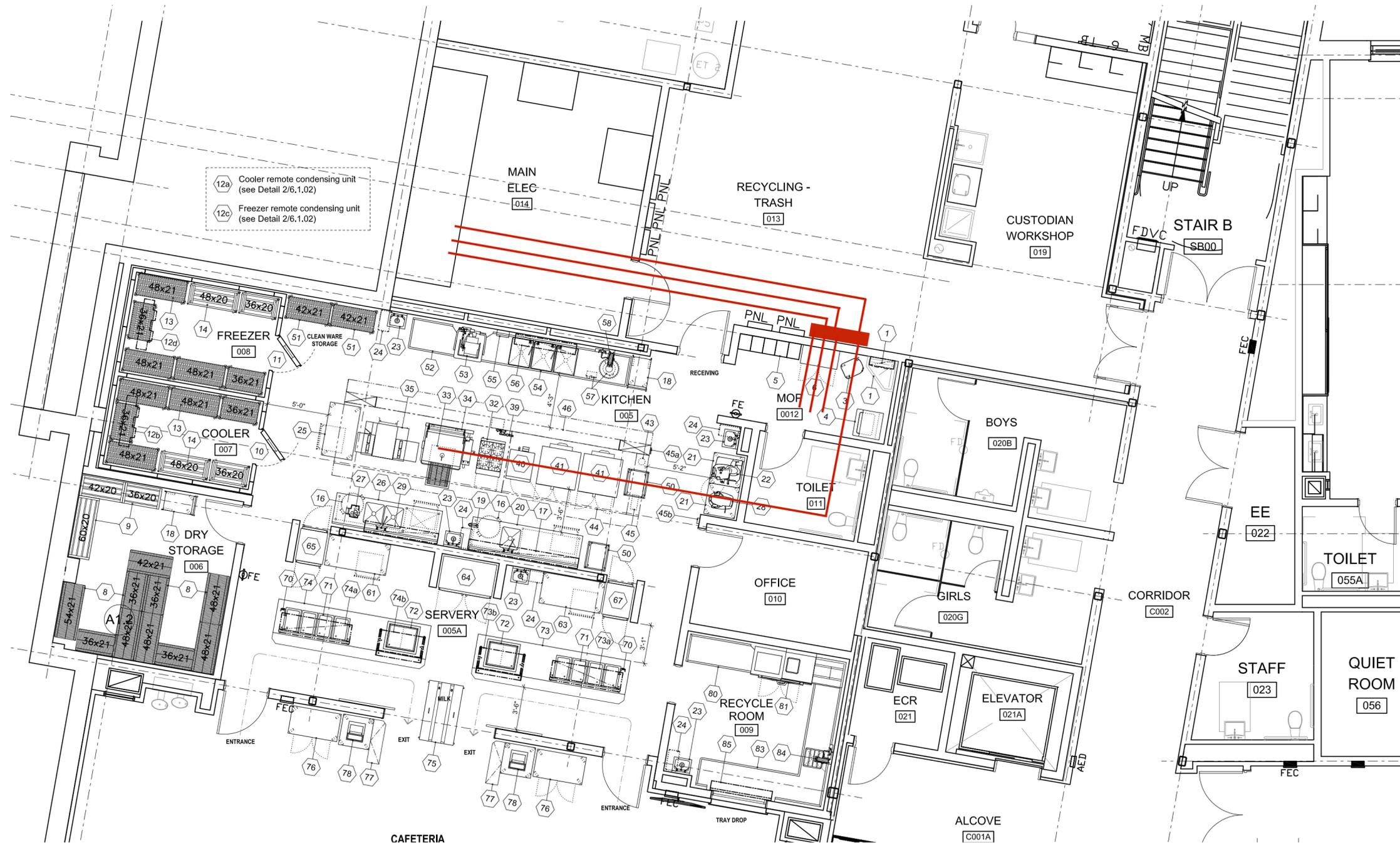
Alternate 1

- Provide Warewash Machine in Room 009



Alternate 2

- Provisions for Future All Electric Kitchen



Projected CD/Bid Phase | Meetings & Milestones

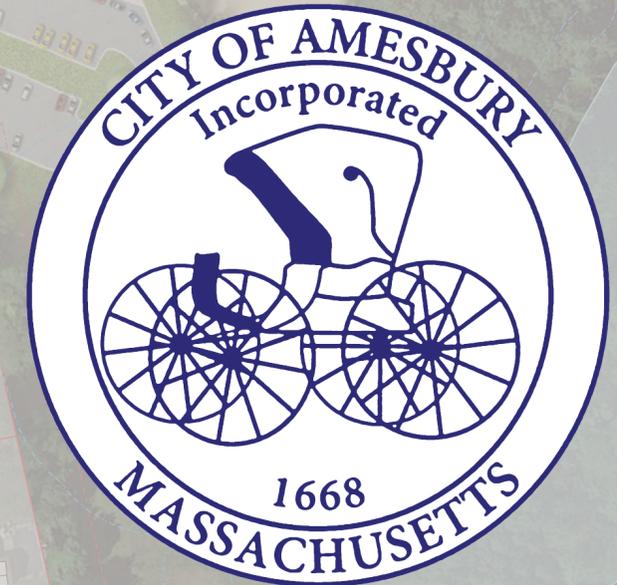
Date	Time	Meeting/Milestone	AESBC/WG Anticipated Agenda Items	Confirmed Meeting Attendees
11-Sep-20		90% CD Cost Est./Reconciliation Complete		
15-Sep-20	10:00 AM to 11:30 AM	WG Meeting	90% Cost Estimate and draft VE List	
17-Sep-20	6:00 PM to 7:30 PM	AESBC Meeting - September	90% Cost Estimate, VE, Submission to MSBA	Kassandra, Angel, Peter, Joe
21-Sep-20		Submit 90% CD Package to MSBA		
29-Sep-20		Pre-qualification Complete		
6-Oct-20	9:00 AM to 11:00 AM	WG Meeting	Traffic Review, Logistics, Soil Coord	
22-Oct-20	6:00 PM to 7:30 PM	AESBC Meeting - October	TBD	Kassandra, Angel, Peter
26-Oct-20	7:00 PM	PB Site Plan Review Meeting		
2-Nov-20	7:00 PM	Cons. Comm. NOI Public Hearing		
19-Nov-20	6:00 PM to 7:30 PM	AESBC Meeting - November	TBD	Kassandra, Angel, Peter
23-Nov-20	7:00 PM	PB Site Plan Review Meeting		
7-Dec-20	7:00 PM	Cons. Comm. NOI Public Hearing		
9-Dec-20		Issue Bid Package		
17-Dec-20	6:00 PM to 7:30 PM	AESBC Meeting - December	TBD	
13-Jan-21		General Contractor Bids Due		

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



School Building Committee Meeting

September 17, 2020



Amesbury Elementary School

 **DINISCO DESIGN**
architects + planners