

# Coakley Middle School

Norwood Public Schools

## Middle School Building Committee

July 11, 2022

### Agenda

June 13, 2022

- ◆ CMr Selection Process Update
- ◆ Project & Schedule Update
- ◆ Sole Source Justification - Automated Building Systems
- ◆ Recommendation of IDS as BMS Automation Consultant
- ◆ Votes to approve: meeting minutes, & V.I.P.

July 11, 2022

- ◆ Votes to approve: meeting minutes, & vendor invoice package
- ◆ Recommendation of IDS as BMS Automation Consultant
- ◆ CMr Selection Process Update
  - Vote to approve RFQ Short List for RFP Solicitation
- ◆ Project Update
  - Meeting Schedule & Timeline
  - Color Theory Presentation
  - Design Development Budget Update Summary
  - Design Development Scope Revision Options for Budget Management
  - Vote to accept Scope Revision for Budget Management



**COAKLEY**  
MIDDLE  
SCHOOL



Ai3 Architects, LLC  
Compass Project Management

# Project Schedule: CM@R PROCESS

APRIL 22 APPLICATION OF CONSTRUCTION MANAGER AT RISK DELIVERY METHOD SUBMITTED TO INSPECTOR GENERAL'S OFFICE (CONFIRMED AS RECEIVED BY INSPECTOR GENERAL'S OFFICE ON APRIL 27, 2022)

MAY 20 CMr SELECTION SUBCOMMITTEE (FORMED IN APRIL MSBC MEETING) MET TO APPROVE THE RFQ OF BIDDERS AND TIMELINE OF RESPONSE.

JUNE 16 STATEMENT OF QUALIFICATIONS FROM INTERESTED CM'S ARE DUE FOR RESPONSE.

JULY 12 REQUEST FOR PROPOSAL (RFP) ISSUED TO SHORTLISTED QUALIFIED RESPONDENTS.  
 JULY 27 RFP's DUE

AUGUST 3-4 INTERVIEW RFP RESPONDENTS  
 AUGUST 15 CMr SELECTION SUBCOMMITTEE HIGHEST RANKED PROPOSER RECOMMENDED FOR APPROVAL TO FINALIZE CONTRACT BY MSBC  
 AFTER AUGUST 15 CMr PRECONSTRUCTION EFFORT TO COMMENCE \*PENDING SELECTMEN APPROVAL

Bacon Construction  
 Consigli  
 Fontaine Bros.  
 Gilbane Construction  
 W.T. Rich

MAY

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

JUNE

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

JULY

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

AUGUST

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

MSBC

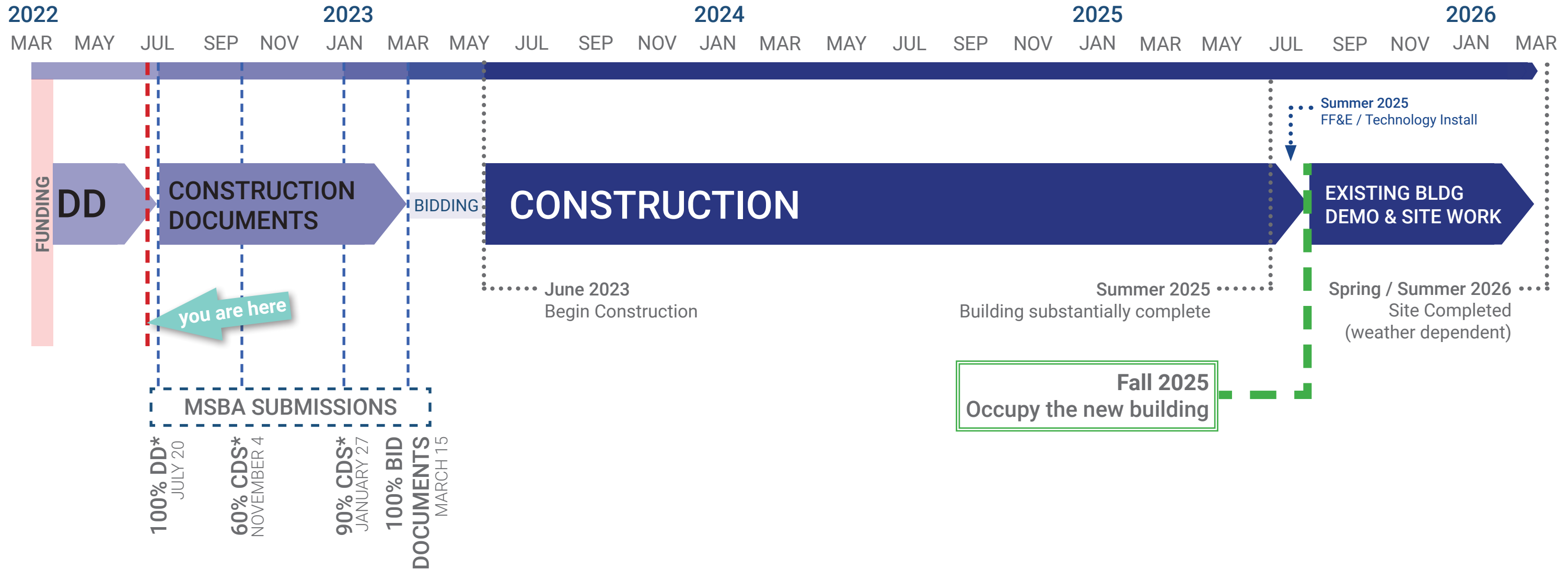
MSBC

MSBC

MSBC

# Project Schedule: OVERVIEW

## THROUGH PROJECT COMPLETION



\*Cost Estimates Required

DD = Design Development  
CD = Construction Documents

# Project Schedule: DESIGN DEVELOPMENT

- MAY 2 SAFETY & SECURITY (W/ DISTRICT)
- MAY 5 YOUTH SPORTS MEETING (ON-SITE)
- MAY 6 TECHNOLOGY MTG
- MAY 13 LEED KICKOFF MTG
- MAY 18 FACILITIES SYSTEMS REVIEW
- MAY 23 - JUNE 1 PHASE II GEOTECH BORINGS (ON-SITE) 5 DAYS
- MAY 27 PHASE II HAZ-MAT TESTING(ON-SITE) 1 DAYS
- MAY 31 - JUNE 2 SCOPE CONFIRMATION MTGS

MAY

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	TESTING					21
22	23	24	25	26	27	28
29	30	31				

MSBC

JUNE

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

MSBC

- JUNE 8 DOCUMENTS OUT FOR ESTIMATING & CxA REVIEW
- JUNE 24 ESTIMATES DUE
- JUNE 28 ESTIMATE RECONCILIATION
- JUNE 29 SAFETY/SECURITY ROUND #2

JULY

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

MSBC

- JULY 20 MSBA SUBMISSION - DD PHASE
- JULY 21 - 22 SAFETY/SECURITY MTG W/ PD & FD

**DD Submission Items:**

- Report
- Drawings
- Project Manual



# COLOR THEORY

## WHY COLOR MATTERS

Research shows that people make a subconscious judgment about an environment or product within 90 seconds.

Up to 90% of that assessment is based on color.

Source: CCICOLOR - Institute for Color Research

### How We Perceive Color

#### The Visible Spectrum

- Wavelengths of light visible to the human eye

#### The Color Wheel

- Hue, Saturation, Brightness
- Tints, Shades, Tones

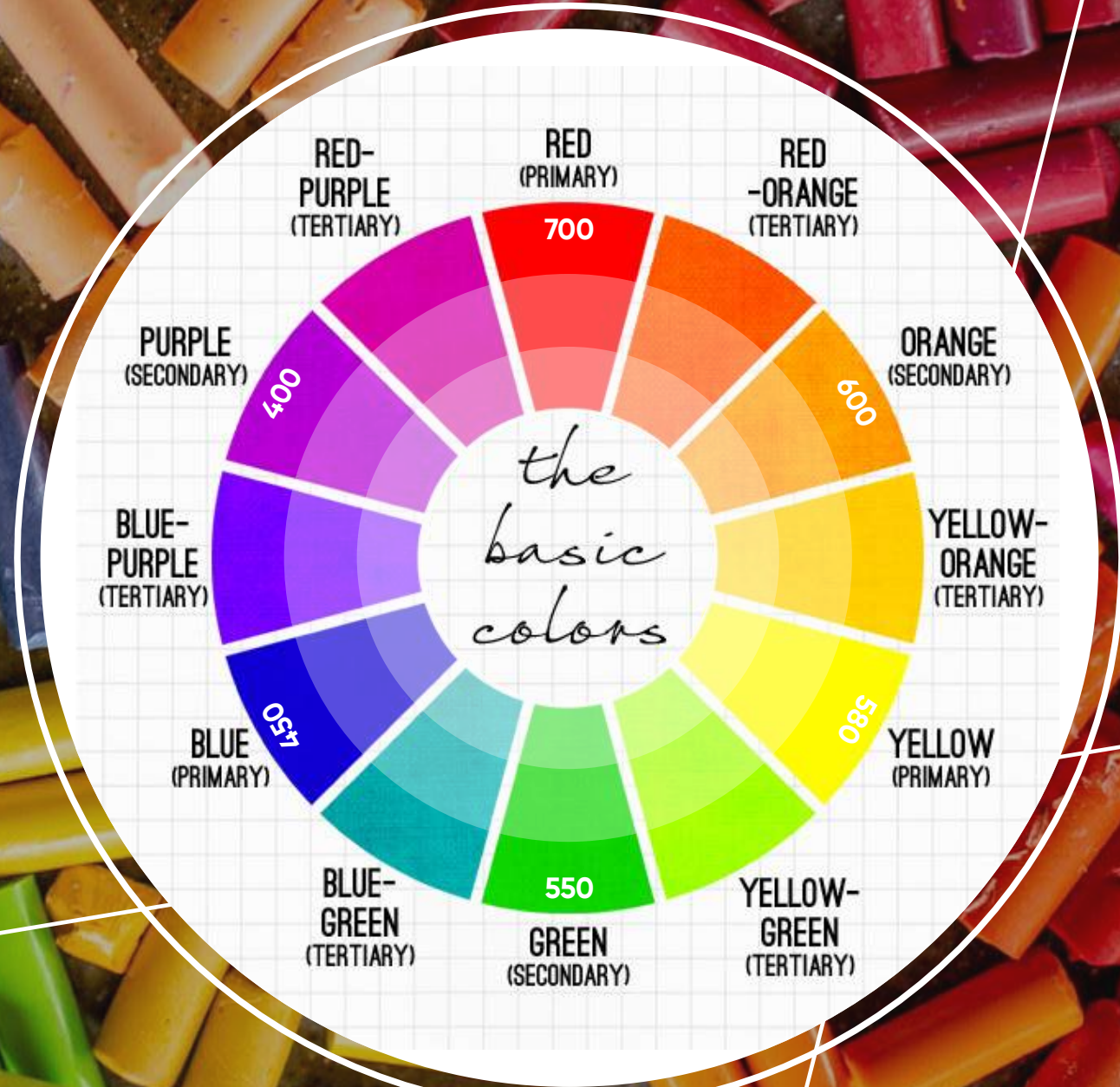
### The Message That Color Communicates


#### Physiology of Color

- The brain's response

#### Color Psychology

- The influence of colors on mood and behavior
- Individual experience





According to the EPA,  
the average American  
spends 93% of their time  
indoors, leaving only 7%  
of their entire life  
outside.




The human brain seeks a visually balanced experience. Color harmony is the combining of colors in order to produce a pleasing effect.

When asked, 95% of people said that their mood improved after spending time outside, changing from depressed, stressed and anxious to more calm and balanced.







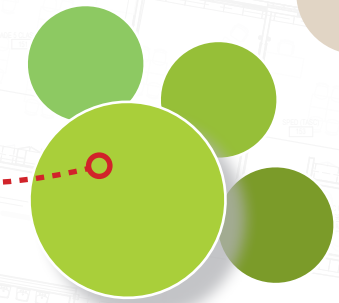
Humans find nature inherently interesting. Time in nature increases our ability to pay attention, and refreshes our minds for new tasks



Blue is the color of trust. It shows reliability and evokes calming feelings.



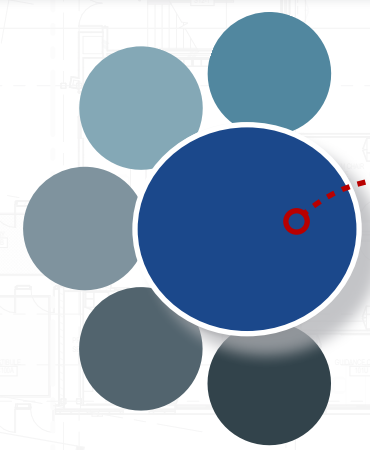
# Typical Classroom



## ACADEMIC TEAMS

2  
GREEN

3  
GOLD

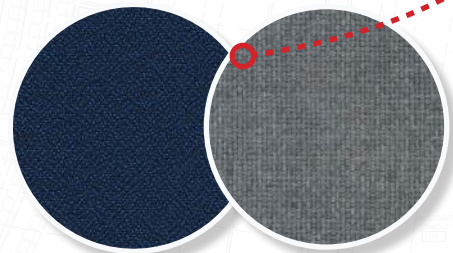


1  
BLUE

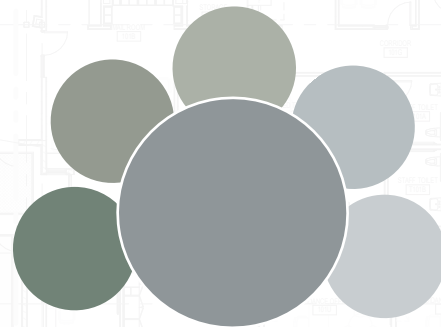
# Auditorium



**COAKLEY**  
MIDDLE  
SCHOOL



**SEAT FABRIC**



**NEUTRALS**





# Gymnasium

COAKLEY  
MIDDLE  
SCHOOL



NEUTRALS

# MSBA: DESIGN DEVELOPMENT

## BUDGET UPDATE

The current MSBA Approved Project Construction Budget is **\$113,847,205**

Our direct trade cost (labor/materials) must be reduced by **\$6,268,439** to meet the approved budget

The Required Design Development Submission to the MSBA must include:

1. The current DD Construction Estimate
2. A Budget Management VE log identifying cost reduction of \$6,268,439
3. Certified Minutes from the MSBC meetings accepting the VE log cost reductions



## LOWELL

# Lowell High School Renovation Project Is More Than \$38M Over Budget

A school renovation project in Lowell, Massachusetts, is tens of millions of dollars over budget, with representatives from Skanska and Suffolk Construction blaming costs that have been rising since the start of the COVID-19 pandemic

By **Diane Cho** • Published March 17, 2022 • Updated on March 17, 2022 at 12:49 am



## Worcester

# Worcester city manager asking for \$23 million in additional funds to construct Doherty Memorial High School

Updated: May. 05, 2022, 9:51 a.m. | Published: May. 03, 2022, 5:27 p.m.

<b>CONSTRUCTION COST SUMMARY</b>			
BUILDING SYSTEM	PM&C DD	PM&C SD	DELTA
<b>A10 FOUNDATIONS</b>			
A1010 Standard Foundations	\$2,143,317	\$2,202,381	(\$59,064)
A1020 Special Foundations			
A1030 Lowest Floor Construction	\$2,074,392	\$1,874,557	\$199,835
<b>B10 SUPERSTRUCTURE</b>			
B1010 Upper Floor Construction	\$6,533,133	\$6,050,889	\$482,244
B1020 Roof Construction	\$4,151,030	\$3,840,595	\$310,435
<b>B20 EXTERIOR CLOSURE</b>			
B2010 Exterior Walls	\$7,608,827	\$7,001,641	\$607,186
B2020 Windows	\$2,980,350	\$3,422,460	(\$442,110)
B2030 Exterior Doors	\$234,877	\$183,646	\$51,231
<b>B30 ROOFING</b>			
B3010 Roof Coverings	\$2,951,100	\$1,973,590	\$977,510
B3020 Roof Openings	\$60,000	\$60,000	\$0
<b>C10 INTERIOR CONSTRUCTION</b>			
C1010 Partitions	\$6,108,054	\$5,344,753	\$763,301
C1020 Interior Doors	\$1,371,519	\$1,182,741	\$188,778
C1030 Specialties/Millwork	\$2,022,447	\$2,299,094	(\$276,647)
<b>C20 STAIRCASES</b>			
C2010 Stair Construction	\$528,000	\$508,500	\$19,500
C2020 Stair Finishes	\$65,832	\$65,832	\$0
<b>C30 INTERIOR FINISHES</b>			
C3010 Wall Finishes	\$1,835,159	\$1,933,370	(\$98,211)
C3020 Floor Finishes	\$1,607,605	\$1,772,028	(\$164,423)
C3030 Ceiling Finishes	\$2,116,625	\$2,066,240	\$50,385
<b>D10 CONVEYING SYSTEMS</b>			
D1010 Elevator	\$694,900	\$591,500	\$103,400
<b>D20 PLUMBING</b>			
D20 Plumbing	\$3,975,435	\$3,202,952	\$772,483
<b>D30 HVAC</b>			
D30 HVAC	\$11,602,716	\$9,592,568	\$2,010,148
<b>D40 FIRE PROTECTION</b>			
D40 Fire Protection	\$1,282,600	\$1,250,000	\$32,600
<b>D50 ELECTRICAL</b>			
D5010 Service & Distribution	\$3,600,630	\$2,787,936	\$812,694
D5020 Lighting & Power	\$2,782,991	\$2,507,664	\$275,327
D5030 Communication & Security Systems	\$4,862,854	\$5,063,130	(\$200,276)

<b>CONSTRUCTION COST SUMMARY</b>			
BUILDING SYSTEM	PM&C DD	PM&C SD	DELTA
D5040 Other Electrical Systems	\$369,500	\$238,920	\$130,580
<b>E10 EQUIPMENT</b>			
E10 Equipment	\$1,502,879	\$1,617,855	(\$114,976)
<b>E20 FURNISHINGS</b>			
E2010 Fixed Furnishings	\$3,038,718	\$3,041,971	(\$3,253)
E2020 Movable Furnishings	NIC	NIC	
<b>TOTAL DIRECT COST (Trade Costs)</b>	<b>\$78,105,490</b>	<b>\$71,676,813</b>	<b>\$6,428,677</b>
<b>F20 HAZMAT REMOVALS</b>			
F2010 Building Elements Demolition	\$1,024,000	\$1,024,000	\$0
F2020 Hazardous Components Abatement	\$1,625,000	\$1,625,000	\$0
Concession Building	\$410,448	\$160,000	\$250,448
<b>G SITE WORK</b>			
G10 Site Preparation	\$2,409,612	\$2,378,657	\$30,955
G20 Site Improvements	\$5,842,356	\$5,126,071	\$716,285
G30 Civil Mechanical Utilities	\$2,274,703	\$2,149,548	\$125,155
G40 Electrical Utilities	\$2,328,180	\$1,034,660	\$1,293,520
<b>TOTAL DIRECT COST (Trade Costs)</b>	<b>\$94,019,789</b>	<b>\$85,174,749</b>	<b>\$8,845,040</b>

**+10.3%**

- STEEL
- ROOF MEMBRANE
- METAL STUDS
- PIPING
- MECHANICAL SYSTEMS & DUCTWORK
- ELECTRICAL SYSTEMS & CABLING
- DIESEL FUEL



# LEVELING: Items already taken through document development

ITEM #		ITEM & DESCRIPTION	VALUE	NOTES
BLDG EXT	1	reduce rooftop unit screens	-\$17,000.00	systems coordination
	2	reduce roof overhangs (roof area reduction of 410 sf)	-\$35,875.00	already taken - roof assembly @ \$87.5/sf
BUILDING INTERIOR	3	modify wall types	-\$25,000.00	Based on acoustic report
	4	reduce casework in band by 6 lf	-\$4,620.00	
	5	move VR lab bench to FF&E	-\$19,600.00	
	6	remove acid waste piping/system	-\$352,200.00	
	7	remove item 1060 - already owned in 1048	-\$17,760.00	Double owned curtains
	8	remove item 1062 - already owned in 1047	-\$25,920.00	Double owned curtains

TOTAL DEDUCT
ESTIMATE LEVELING
<b>\$497,975</b>

## ORGANIZING CATEGORIES

**LEVELING: \$497,975**  
Items already taken through document development

**PRIORITY 1: \$3,335,468**  
Items are highly recommended to accept - typical in school construction

**PRIORITY 2: \$2,439,803**  
Items are recommended - some typical in school construction, some District specific - may require discussion

PATH TO BUDGET →

**Total Reduction of Leveling, Priority 1 & Priority 2 Categories: \$6,273,246**

**Target Reduction: \$6,268,439**

**PRIORITY 3: \$2,453,506**  
Items may impact function, maintenance, or durability - use this category if any of the items in the lists above are unacceptable

# PRIORITY 1: Items are highly recommended to accept - typical in school construction

ITEM #		ITEM & DESCRIPTION	VALUE	NOTES
PHASING	9	Construct Mock-up wall as part of building	-\$50,000.00	
BUILDING - EXTERIOR	10	remover exterior mounted sunshades at classrooms & band/choral - interior blinds are included - 475'lf vertical; 26'lf horizontal	-\$99,680.00	keep exterior mounted sunshades at commons, media center, & gymnasium
	11	remove exterior sunscreens @ media center and commons - 519 lf horizontal	-\$93,420.00	keep exterior sunscreens @ gymnasium
	12	reduce height of 4th floor by 2' (from 16' to 14')	-\$340,000.00	wall @ \$75/sf, perimeter length = 1200'
	13	use PVC trim at entrance canopies ILO exterior metal panel (350 sf)	-\$10,500.00	metal panel @ \$80, PVC @ \$50
	14	use fiber cement exterior cladding ILO exterior metal panel @ Media Center (4,875 sf)	-\$156,000.00	
	15	remove 300sf of exterior envelope - fiber cement @ FLR 2 above kitchen	-\$26,025.00	
	16	remove 300sf of exterior envelope - brick @ FLR 2 above kitchen	-\$23,325.00	
	17	Reduce underslab insulation from 100% area to 2' at perimeter (reduce from 70,972 sf to 5,000 sf)	-\$164,930.00	
BUILDING - INTERIOR	18	remove transoms at classroom entries	-\$98,400.00	
	19	use ACT ILO painted GWB at toilet rooms - 5217 sf	-\$20,868.00	
	20	use ACT ILO painted GWB at locker rooms 1577 sf	-\$6,308.00	
	21	remove GWB soffits in classrooms - ACT to extend to wall - 1500 lf	-\$120,000.00	
	22	remove GWB soffits in corridors above lockers - 735 lf	-\$16,295.00	
	23	reduce size of acordion folding fire door by 25.5 sf	-\$7,650.00	Reduce width from 16'-6" to 13'-6" @ \$300/sf
	24	reduce acordion folding doors to 140 sf and replace with ( 5) double swing doors	-\$45,890.00	keep one acordion door at wide opening by stair 2, floor 2
	25	reduce climbing wall in gym to size that matches existing climbing wall	-\$61,950.00	Existing approx. 37'x8'
	26	remove sliding marker boards in student collab space - provide 30 sf MB instead	-\$7,340.00	
	27	Modify railing design at auditorium - reduce cost from \$400 to \$300 lf	-\$13,500.00	Reduce complexity and modify materials
	28	remove wood wall panels in media center & replace with fabric acoustic panels	-\$19,485.00	
	29	move kiln to FF&E	-\$10,000.00	
	30	move student commons trash cans to FF&E	-\$19,200.00	
	31	reduce wall tile in all <b>multi-fixture bathroom</b> from all 4 walls to ceiling to be wet wall to ceiling and other walls to 4' (reduce by 1,500 sf)	-\$42,450.00	
	32	further reduce wall tile in all <b>multi-fixture bathroom</b> from item above to only wet walls having tile to ceiling, other walls painted GWB (reduce by 1,200 sf)	-\$33,960.00	
	33	reduce wall tile in <b>single use bathroom</b> from all 4 walls to ceiling to be wet wall to ceiling and other walls to 4' (reduce by 3,300 sf)	-\$93,390.00	
	34	further reduce tile in <b>single use bathrooms</b> to be 4' at all walls (reduce by 1,400 sf)	-\$39,620.00	
	35	further reduce tile in <b>single use bathrooms</b> to be 4' at wet wall only (reduce by 2,600 sf)	-\$73,580.00	
	36	Reduce height of tile in student commons space from 10' to 4' (reduce by 1,314 sf)	-\$37,186.20	
	37	reduce height of tile in corridor from 4' to 3' (reducy by 3,700 sf)	-\$104,710.00	
	38	use FRP panels in custodial mop areas ILO ceramic tile (160 sf)	-\$2,720.00	

# PRIORITY 1: Items are highly recommended to accept - typical in school construction

ITEM #	ITEM & DESCRIPTION	VALUE	NOTES	
SITE	39	reduce landscape category by 10%	-\$74,328.00	May impact LEED credits (2)
	40	Reduce poured in place safety surface by 10%	-\$11,958.40	
	41	reduce allowance for playground equipment from \$150,000 to \$75,000	-\$75,000.00	
	42	Remove lit bollards from electrical site plan	-\$12,000.00	Not needed per code & landscape owns ornamental at same location
	43	remove low seat wall - replace with benches	-\$49,023.00	8 benches added
	44	change green screen fencing to planting buffer	-\$74,575.00	
	45	Remove school entry signs from project	-\$70,000.00	
	46	reduce quantity of ornamental benches from 15 to 7	-\$28,000.00	
	47	reduce quantity of bike racks from 16 to 8	-\$6,800.00	
	48	use existing athletic benches	-\$15,000.00	Quantity - 6
	49	use existing soccer goals	-\$18,000.00	Quantity - 4
	50	remove concrete pavers and replace with broom finished concrete - 2,107 sf	-\$52,675.00	At back of building
	51	switch from concrete to asphalt at walkways further away from building - approx 9,963 sf	-\$87,674.40	
	52	use bituminous curb ILO granite @ locations away from building - approx 7,510 lf	-\$193,382.50	
	53	remove asphalt sidewalk at perimeter access road adjacent to fields. Remove retaining wall and use plantings to stabilize sloped earth from road down to field.	-\$181,540.00	Walking path continuity would cross perimeter road twice and continue along building
	54	remove ornamental fence @ playground - 186 lf	-\$23,250.00	
55	change ornamental fence to wire mesh fence - 672 lf	-\$20,160.00	quantity is less the playground fence above	
56	remove outdoor dining tables & benches	-\$50,421.00		
SYSTEMS	57	remove "power scrubber" from lower level kitchen & add in typical 3-pot sink	-\$18,000.00	
	58	reduce the size of the interactive displays from 86" to 75" at all locations (96 locations)	-\$105,600.00	
	59	further reduce the size of the display from 75" to 65" in smaller rooms (16 locations)	-\$17,600.00	
	60	reduce digital signage budget from \$85,000 to \$65,000	-\$20,000.00	Reduce quantity of monitors
	61	Remove portable sound system	-\$2,000.00	possibly could be purchased at a later time -FF&E
	62	Remove portable assistive listening system	-\$1,500.00	possibly could be purchased at a later time -FF&E
	63	make basketball hoops manual ILO electric	-\$13,500.00	9 locations
	64	reduce lighting package by 10%	-\$100,098.00	
	65	provide aluminum power distribution feeders (sizes over 100 amps) ILO copper feeders (provide copper feeders for 100 amps and lower)	-\$175,000.00	

**TOTAL DEDUCT  
PRIORITY 1  
\$3,335,468**

**PRIORITY 2:** Items are recommended - some typical in school construction, some District specific - may require discussion

ITEM #		ITEM & DESCRIPTION	VALUE	NOTES
CONCESSIONS	66	Concessions building move to be an add-alternate	-\$410,448.00	
BUILDING - EXTERIOR	67	remove overhead coiling doors at custodial and kitchen loading dock and replace with double swing doors	-\$5,600.00	
	68	use fully adhered EPDM (rubber) roof membrane ILO fully adhered PVC roof membrane	-\$123,487.50	reduce \$1.50/sf
	69	reduce quantity of CW by 1,350 sf	-\$98,550.00	reduction of CW that has spandrel panels
	70	change 1,500 sf of CW to SF	-\$37,500.00	Quantity reflects taking previous VE item
	71	reduce roof overhang @ all floors by 6" (750 sf)	-\$65,625.00	roof @ \$87.5/sf
	72	further reduce roof overhang @ all floors by 6"	-\$65,625.00	Add to item above
BUILDING - INTERIOR	73	use floor mounted toilet partitions ILO ceiling hung	-\$12,300.00	41 locations
	74	remove acoustic wood slat walls in student commons and replace with painted GWB w/ reveals (1180 sf)	-\$58,174.00	
	75	reduce wood paneling in auditorium - @ stage apron - 140 sf	-\$11,102.00	
	76	remove wood soffits @ both commons - replace with painted GWB - 2281 sf	-\$132,298.00	
	77	remove wood panel walls @ both commons - replace with painted GWB - 1294 sf	-\$102,614.20	
	78	change 2,540sf of interior storefront to hollow metal	-\$25,400.00	
	79	reduce bleacher capacity in gymnasium from 296 to 218	-\$20,670.00	Include only at main court
	80	change 303 sf of interior CW to 260 sf of SF - upper commons - reduce size & add 60 sf of horizontal soffit	-\$11,640.00	
	81	replace ceramic floor tile in restrooms with poured epoxy - 4,200 sf	-\$50,400.00	
	82	replace ceramic floor tile in locker rooms with poured epoxy - 285 sf	-\$3,420.00	
	83	use pured epoxy floor in lower level kitchen ILO quarry tile (1,847 sf)	-\$25,858.00	Tile = \$32sf Poured floor = \$18sf
	84	use painted concrete ILO stained concrete for floor in PTS (414 sf)	-\$3,933.00	polished concrete @ \$12.00sf
	85	reduce open shelving casework in fullsize typical classrooms by 50%	-\$237,300.00	reduce from 1,356 LF to 678 lf
	86	change upper wall cabinets to open shelving units in teaching spaces - 1257 lf	-\$56,565.00	
	87	use chemical resistant laminate ILO epoxy counters in spaces listed	-\$83,400.00	

**PRIORITY 2:** Items are recommended - some typical in school construction, some District specific - may require discussion

ITEM #	ITEM & DESCRIPTION	VALUE	NOTES	
SITE	88	remove 9 of the 10 outdoor storage units	-\$112,500.00	keep one for turf maintenance equipment
	89	remove 20' tall ball control netting	-\$95,800.00	
	90	use asphalt walkways ILO concrete @ all remaining locations - 19,269 sf	-\$169,567.20	
	91	use concrete walkways ILO concrete pavers @ main entries - 3115 sf	-\$77,875.00	
	92	use asphalt walkways ILO concrete @ main entries - 3115 sf	-\$27,412.00	
	93	use bituminous curb ILO granite @ all remaining locations	-\$58,349.50	
	94	Remove electric vehicle charging stations - Loss of 1 LEED credit	-\$56,000.00	removes equipment, underground conduit still provided
SYSTEMS	95	use manual flush valves ILO automatic flush valves	-\$9,240.00	84 locations
	96	remove voice lift system from classrooms and use 60w 70v amp mounted on tv on wall, with 4 ceiling speakers - no microphone	-\$163,200.00	96 locations
	97	remove device box with conduit stub above ceiling for Voice Lift system	-\$27,950.00	does not affect amp/speaker scenario above

**TOTAL DEDUCT  
PRIORITY 2  
\$2,439,803**

**TOTAL DEDUCT  
FOR ITEMS ABOVE  
\$6,273,246**

**TARGET DEDUCT = \$6,268,439**

ACCEPTING THE ITEMS IN THIS AND ALL PREVIOUS CATEGORIES PROVIDES A PATH TO BUDGET.

**PRIORITY 3:** Items may impact function, maintenance, or durability - use this category if any of the items in the lists above are unacceptable

ITEM #	ITEM & DESCRIPTION	VALUE	NOTES
<b>BUILDING</b>	98	use rigid vinyl wall panel ILO tile at bathroom walls	Calculations based on tile scope reductions noted above
	99	use rigid vinyl wall panel ILO tile at corridor @ 3' high	Calculations based on tile @ 3'
	100	remove all remaining exterior sunscreens @ gymnasium - 120 lf vertical, 250 lf horizontal	shades not included in gymnasium - maintenance issue
	101	remove RTU roof screens - additional structural steel required	
	102	remove RTU roof screens - screen louver item	
<b>FOOD SERVICE EQUIPMENT</b>	103	Use regular convection oven ILO combi oven - ground floor	
	104	Use regular convection oven ILO combi oven - third floor	
	105	Use regular cold or hot wells ILO convertible hot/cold wells - ground floor	
	106	Use regular cold or hot wells ILO convertible hot/cold wells - third floor	
	107	Delete ice maker & floor trough - buy ice when needed	
	108	Delete pot and pan washer - wash all pots and pans by hand.	May require the addition of a steamer and increasing the hood length
<b>SYSTEMS</b>	109	remove pendant light fixtures from classrooms and use recessed 2x2 lights	increase quantity by 30%
	110	have Norwood Light provide transformer and all other items typically supplied by utility provider	NOTE increase electrical rates - reduction also estimated, not calculated
	111	remove emergency generator and all circuiting requirements - utilize battery lights (generator, duct banks & pad)	
	112	remove parking security cameras	
	113	remove all exterior building cameras except for ones covering the doors	
	114	Remove building lightning protection	CONFIRM ACCEPTABLE WITH INSURANCE COMPANY

<b>TOTAL DEDUCT PRIORITY 3 \$2,453,506</b>
--

# POTENTIAL ADDITIONAL ITEMS:

Items reduce square footage or are associated with an item in a previous list

ITEM #	ITEM & DESCRIPTION	VALUE	NOTES	
AUDITORIUM	115	CURRENT: 600 seats, 2 aisles	\$0.00	
	116	550 seats, 4 aisles	-\$19,000.00	reduced seat quantity, room size remains
	117	550 seats, 2 aisles	-\$514,000.00	
	118	500 seats, 4 aisles	-\$533,000.00	
	119	500 seats, 2 aisles	-\$1,028,000.00	
CONCESSIONS	120	reduce thickness of wall insulation	-\$859.00	CAN NOT BE TAKEN IF ADD ALTERNATE ITEM ABOVE IS ACCEPTED (TOTAL = \$15,243)
	121	remove fiber cement and replace with splitface	-\$4,860.00	
	122	remove precast watertable and use splitface	-\$4,380.00	
	123	use ACT ILO painted GWB in bathroom	-\$208.00	
	124	paint concrete floors in Concessions Building ILO polished Concrete (238sf)	-\$2,261.00	
	125	reduce underslab insulation from 100% floor area to 2' at perimeter (reduce from 630 to 200sf)	-\$1,075.00	
	126	PLAM counter at the concessions building ILO stainless steel	-\$1,600.00	



# Next Middle School Building Committee meeting: July 18

