

Plunkett Raysich Architects, LLP (PRA) and Design Engineers Cost Analysis for Selected MMSD Facilities
November 2023 | Madison Metropolitan School District

Facility	Area (Sq. Ft.) of Facility	Composite grade	Projects to Meet Renewable Energy Resolution Goal (Mechanical, Electrical, Plumbing, and Fire Suppression - MEPFS)*					Architectural Components to Complete Facility-Specific Renovation **							Subtotal: Renewable Energy	Subtotal: Architectural Components	Total Cost
			Sustainability and Energy Efficiency	Plumbing	HVAC	Power/Lighting/Technology	Fire Suppression	Site Elements	Building Envelope	Life Safety	Accessibility	Interior Finishes	Specialty Areas/ Need	Aesthetics			
Elementary Schools:																	
Nuestro Mundo Elementary School (Allis)	82,000	D	\$3,024,000	\$2,376,000	\$7,992,000	\$7,344,000	\$864,000	\$1,188,000	\$2,376,000	\$1,944,000	\$1,728,000	\$1,512,000	\$972,000	\$1,080,000	\$21,600,000	\$10,800,000	\$32,400,000
Milele Chikasa Anana Elementary School (Falk)	66,525	C	\$1,442,000	\$1,133,000	\$3,811,000	\$3,502,000	\$412,000	\$312,000	\$468,000	\$442,000	\$390,000	\$416,000	\$260,000	\$312,000	\$10,300,000	\$2,600,000	\$12,900,000
Cesar Chavez Elementary School	88,000	B	\$3,184,000	\$2,545,000	\$8,083,000	\$7,444,000	\$44,000	\$117,000	\$117,000	\$108,000	\$108,000	\$198,000	\$108,000	\$144,000	\$21,300,000	\$900,000	\$22,200,000
Crestwood Elementary School	67,675	C	\$1,750,000	\$1,375,000	\$4,625,000	\$4,250,000	\$500,000	\$384,000	\$576,000	\$544,000	\$480,000	\$512,000	\$320,000	\$384,000	\$12,500,000	\$3,200,000	\$15,700,000
Conrad E. Elvehjem Elementary School	72,234	C	\$2,758,000	\$2,167,000	\$7,289,000	\$6,698,000	\$788,000	\$600,000	\$900,000	\$850,000	\$750,000	\$800,000	\$500,000	\$600,000	\$19,700,000	\$5,000,000	\$24,700,000
Emerson Elementary School	71,760	C	\$2,646,000	\$2,079,000	\$6,993,000	\$6,426,000	\$756,000	\$576,000	\$864,000	\$816,000	\$720,000	\$768,000	\$480,000	\$576,000	\$18,900,000	\$4,800,000	\$23,700,000
Franklin Elementary School	51,760	C	\$2,114,000	\$1,661,000	\$5,587,000	\$5,134,000	\$604,000	\$456,000	\$684,000	\$646,000	\$570,000	\$608,000	\$380,000	\$456,000	\$15,100,000	\$3,800,000	\$18,900,000
Hawthorne Elementary School	65,461	C	\$2,646,000	\$2,079,000	\$6,993,000	\$6,426,000	\$756,000	\$576,000	\$864,000	\$816,000	\$720,000	\$768,000	\$480,000	\$576,000	\$18,900,000	\$4,800,000	\$23,700,000
Dr. Virginia Henderson Elementary School (Glendale)	78,875	D	\$2,926,000	\$2,299,000	\$7,733,000	\$7,106,000	\$836,000	\$1,155,000	\$2,310,000	\$1,890,000	\$1,680,000	\$1,470,000	\$945,000	\$1,050,000	\$20,900,000	\$10,500,000	\$31,400,000
Ray W. Huegel Elementary School	64,000	C	\$2,380,000	\$1,870,000	\$6,290,000	\$5,780,000	\$680,000	\$516,000	\$774,000	\$731,000	\$645,000	\$688,000	\$430,000	\$516,000	\$17,000,000	\$4,300,000	\$21,300,000
Kennedy Elementary School	67,220	C	\$2,492,000	\$1,958,000	\$6,586,000	\$6,052,000	\$712,000	\$540,000	\$810,000	\$765,000	\$675,000	\$720,000	\$450,000	\$540,000	\$17,800,000	\$4,500,000	\$22,300,000
Lake View Elementary School	40,500	C	\$1,708,000	\$1,342,000	\$4,514,000	\$4,148,000	\$488,000	\$372,000	\$558,000	\$527,000	\$465,000	\$496,000	\$310,000	\$372,000	\$12,200,000	\$3,100,000	\$15,300,000
Lapham Elementary School	74,774	D	\$2,856,000	\$2,244,000	\$7,548,000	\$6,936,000	\$816,000	\$561,000	\$1,122,000	\$918,000	\$816,000	\$714,000	\$459,000	\$510,000	\$20,400,000	\$5,100,000	\$25,500,000
Aldo Leopold Elementary School	86,396	C	\$3,150,000	\$2,475,000	\$8,325,000	\$7,650,000	\$900,000	\$684,000	\$1,026,000	\$969,000	\$855,000	\$912,000	\$570,000	\$684,000	\$22,500,000	\$5,700,000	\$28,200,000
Abraham Lincoln Elementary School	58,822	C	\$2,324,000	\$1,826,000	\$6,142,000	\$5,644,000	\$664,000	\$504,000	\$756,000	\$714,000	\$630,000	\$672,000	\$420,000	\$504,000	\$16,600,000	\$4,200,000	\$20,800,000
Charles Lindbergh Elementary School	34,475	C	\$1,530,000	\$1,209,000	\$3,991,000	\$3,670,000	\$300,000	\$324,000	\$486,000	\$459,000	\$405,000	\$432,000	\$270,000	\$324,000	\$10,700,000	\$2,700,000	\$13,400,000
Lowell Elementary School	68,896	C	\$2,548,000	\$2,002,000	\$6,734,000	\$6,188,000	\$728,000	\$552,000	\$828,000	\$782,000	\$690,000	\$736,000	\$460,000	\$552,000	\$18,200,000	\$4,600,000	\$22,800,000
Mendota Elementary School	49,400	D	\$2,030,000	\$1,595,000	\$5,365,000	\$4,930,000	\$580,000	\$803,000	\$1,606,000	\$1,314,000	\$1,168,000	\$1,022,000	\$657,000	\$730,000	\$14,500,000	\$7,300,000	\$21,800,000
Midvale Elementary School	72,349	C	\$2,887,500	\$2,287,500	\$7,487,500	\$6,887,500	\$450,000	\$1,800,000	\$2,700,000	\$2,550,000	\$2,250,000	\$2,400,000	\$1,500,000	\$1,800,000	\$20,000,000	\$15,000,000	\$35,000,000
John Muir Elementary School	69,000	C	\$2,660,000	\$2,090,000	\$7,030,000	\$6,460,000	\$760,000	\$348,000	\$522,000	\$493,000	\$435,000	\$464,000	\$290,000	\$348,000	\$19,000,000	\$2,900,000	\$21,900,000
Paul J. Olson Elementary School	86,396	B	\$1,834,500	\$1,465,500	\$4,663,500	\$4,294,500	\$42,000	\$91,000	\$91,000	\$84,000	\$84,000	\$154,000	\$84,000	\$112,000	\$12,300,000	\$700,000	\$13,000,000
Randall Elementary School	61,540	C	\$2,408,000	\$1,892,000	\$6,364,000	\$5,848,000	\$688,000	\$516,000	\$774,000	\$731,000	\$645,000	\$688,000	\$430,000	\$516,000	\$17,200,000	\$4,300,000	\$21,500,000
Carl Sandburg Elementary School	57,683	C	\$2,422,000	\$1,903,000	\$6,401,000	\$5,882,000	\$692,000	\$1,044,000	\$1,566,000	\$1,479,000	\$1,305,000	\$1,392,000	\$870,000	\$1,044,000	\$17,300,000	\$8,700,000	\$26,000,000
Shorewood Hills Elementary School	60,950	C	\$2,369,500	\$1,865,500	\$6,233,500	\$5,729,500	\$602,000	\$1,008,000	\$1,512,000	\$1,428,000	\$1,260,000	\$1,344,000	\$840,000	\$1,008,000	\$16,800,000	\$8,400,000	\$25,200,000
Glenn Stephens Elementary School	72,000	D	\$2,758,000	\$2,167,000	\$7,289,000	\$6,698,000	\$788,000	\$1,089,000	\$2,178,000	\$1,782,000	\$1,584,000	\$1,386,000	\$891,000	\$990,000	\$19,700,000	\$9,900,000	\$29,600,000
Henry David Thoreau Elementary School	58,500	C	\$2,310,000	\$1,815,000	\$6,105,000	\$5,610,000	\$660,000	\$504,000	\$756,000	\$714,000	\$630,000	\$672,000	\$420,000	\$504,000	\$16,500,000	\$4,200,000	\$20,700,000
Subtotal (Elementary Schools)			\$63,157,500	\$49,720,500	\$166,174,500	\$152,737,500	\$16,110,000	\$16,620,000	\$27,224,000	\$24,496,000	\$21,688,000	\$21,944,000	\$13,796,000	\$16,232,000	\$447,900,000	\$142,000,000	\$589,900,000

Notes

* Renewable Energy Resolution Goal costs are interconnected costs and therefore improvements made in one Renewable Energy sub-category without improvements in another Renewable Energy sub-category may result in increased overall cost and missed opportunities. The assumption of the cost figures represent a value of implementation in current market conditions without projections of future costs.

** Architectural Components to Complete Facility-Specific Renovation costs are connected to Renewable Energy Resolution Goal (MEPFS) costs and therefore improvements made in one or more Architectural Component sub-categories will influence cost and needs within one or more of the Renewable Energy Resolution Goal (MEPFS) sub-categories. The assumption of the cost figures represent a value of implementation in current market conditions without projections of future costs.

Plunkett Raysich Architects, LLP (PRA) and Design Engineers Cost Analysis for Selected MMSD Facilities

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Facility	Area (Sq. Ft.) of Facility	Composite grade	Projects to Meet Renewable Energy Resolution Goal (Mechanical, Electrical, Plumbing, and Fire Suppression - MEPFS)*					Architectural Components to Complete Facility-Specific Renovation **								Subtotal: Renewable Energy	Subtotal: Architectural Components	Total Cost
			Sustainability and Energy Efficiency	Plumbing	HVAC	Power/Lighting/Technology	Fire Suppression	Site Elements	Building Envelope	Life Safety	Accessibility	Interior Finishes	Specialty Areas/ Need	Aesthetics				
Elementary Schools:																		
November 2023 Madison Metropolitan School District																		
Facility	Area (Sq. Ft.) of Facility	Composite grade	Projects to Meet Renewable Energy Resolution Goal (Mechanical, Electrical, Plumbing, and Fire Suppression - MEPFS)*					Architectural Components to Complete Facility-Specific Renovation **								Subtotal: Renewable Energy	Subtotal: Architectural Components	Total Cost
Facility	Area (Sq. Ft.) of Facility	Composite grade	Sustainability and Energy Efficiency	Plumbing	HVAC	Power/Lighting/Technology	Fire Suppression	Site Elements	Building Envelope	Life Safety	Accessibility	Interior Finishes	Specialty Areas/ Need	Aesthetics				
Combined Elementary/Middle Schools:																		
Samuel Gompers ES/Blackhawk MS	104,960	C	\$2,492,000	\$1,958,000	\$6,586,000	\$6,052,000	\$712,000	\$534,000	\$801,000	\$756,500	\$667,500	\$712,000	\$445,000	\$534,000	\$17,800,000	\$4,450,000	\$22,250,000	
Marquette ES/Georgia O'Keeffe MS	137,110	C	\$4,648,000	\$3,652,000	\$12,284,000	\$11,288,000	\$1,328,000	\$1,992,000	\$2,988,000	\$2,822,000	\$2,490,000	\$2,656,000	\$1,660,000	\$1,992,000	\$33,200,000	\$16,600,000	\$49,800,000	
Orchard Ridge ES/Akira Toki MS	113,907	D	\$3,990,000	\$3,135,000	\$10,545,000	\$9,690,000	\$1,140,000	\$1,567,500	\$3,135,000	\$2,565,000	\$2,280,000	\$1,995,000	\$1,282,500	\$1,425,000	\$28,500,000	\$14,250,000	\$42,750,000	
Herbert Schenk ES/Annie Greencrow Whitehorse MS	119,203	C	\$4,004,000	\$3,146,000	\$10,582,000	\$9,724,000	\$1,144,000	\$858,000	\$1,287,000	\$1,215,500	\$1,072,500	\$1,144,000	\$715,000	\$858,000	\$28,600,000	\$7,150,000	\$35,750,000	
Van Hise ES/Hamilton MS	133,350	C	\$4,592,000	\$3,608,000	\$12,136,000	\$11,152,000	\$1,312,000	\$984,000	\$1,476,000	\$1,394,000	\$1,230,000	\$1,312,000	\$820,000	\$984,000	\$32,800,000	\$8,200,000	\$41,000,000	
Subtotal (Combined Elementary/Middle Schools)			\$19,726,000	\$15,499,000	\$52,133,000	\$47,906,000	\$5,636,000	\$5,935,500	\$9,687,000	\$8,753,000	\$7,740,000	\$7,819,000	\$4,922,500	\$5,793,000	\$140,900,000	\$50,650,000	\$191,550,000	
Middle Schools:																		
Cherokee Heights Middle School	89,390	C	\$3,248,000	\$2,552,000	\$8,584,000	\$7,888,000	\$928,000	\$696,000	\$1,044,000	\$986,000	\$870,000	\$928,000	\$580,000	\$696,000	\$23,200,000	\$5,800,000	\$29,000,000	
Ezekiel Gillespie Middle School (Jefferson)	81,029	B	\$3,040,250	\$2,422,250	\$7,778,250	\$7,160,250	\$199,000	\$267,800	\$267,800	\$247,200	\$247,200	\$453,200	\$247,200	\$329,600	\$20,600,000	\$2,060,000	\$22,660,000	
Ray F. Sennett Middle School	98,300	C	\$3,514,000	\$2,761,000	\$9,287,000	\$8,534,000	\$1,004,000	\$753,000	\$1,129,500	\$1,066,750	\$941,250	\$1,004,000	\$627,500	\$753,000	\$25,100,000	\$6,275,000	\$31,375,000	
Spring Harbor Middle School	32,534	C	\$1,414,000	\$1,111,000	\$3,737,000	\$3,434,000	\$404,000	\$303,000	\$454,500	\$429,250	\$378,750	\$404,000	\$252,500	\$303,000	\$10,100,000	\$2,525,000	\$12,625,000	
James C. Wright Middle School	55,150	C	\$2,226,000	\$1,749,000	\$5,883,000	\$5,406,000	\$636,000	\$190,800	\$286,200	\$270,300	\$238,500	\$254,400	\$159,000	\$190,800	\$15,900,000	\$1,590,000	\$17,490,000	
Subtotal (Middle Schools)			\$13,442,250	\$10,595,250	\$35,269,250	\$32,422,250	\$3,171,000	\$2,210,600	\$3,182,000	\$2,999,500	\$2,675,700	\$3,043,600	\$1,866,200	\$2,272,400	\$94,900,000	\$18,250,000	\$113,150,000	
Combined Middle/High Schools:																		
Sherman MS/Shabazz HS	131,490	D	\$3,922,000	\$3,103,000	\$10,201,000	\$9,382,000	\$692,000	\$1,501,500	\$3,003,000	\$2,457,000	\$2,184,000	\$1,911,000	\$1,228,500	\$1,365,000	\$27,300,000	\$13,650,000	\$40,950,000	
Subtotal (Combined Middle/High Schools)			\$3,922,000	\$3,103,000	\$10,201,000	\$9,382,000	\$692,000	\$1,501,500	\$3,003,000	\$2,457,000	\$2,184,000	\$1,911,000	\$1,228,500	\$1,365,000	\$27,300,000	\$13,650,000	\$40,950,000	
Other:																		
Doyle Administration	84,200	D	\$3,094,000	\$2,431,000	\$8,177,000	\$7,514,000	\$884,000	\$1,215,500	\$2,431,000	\$1,989,000	\$1,768,000	\$1,547,000	\$994,500	\$1,105,000	\$22,100,000	\$11,050,000	\$33,150,000	
Subtotal (Other)			\$3,094,000	\$2,431,000	\$8,177,000	\$7,514,000	\$884,000	\$1,215,500	\$2,431,000	\$1,989,000	\$1,768,000	\$1,547,000	\$994,500	\$1,105,000	\$22,100,000	\$11,050,000	\$33,150,000	
Total			\$40,184,250	\$31,628,250	\$105,780,250	\$97,224,250	\$10,383,000	\$10,863,100	\$18,303,000	\$16,198,500	\$14,367,700	\$14,320,600	\$9,011,700	\$10,535,400	\$285,200,000	\$93,600,000	\$378,800,000	

Notes

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** Architectural Components to Complete Facility-Specific Renovation costs are connected to Renewable Energy Resolution Goal (MEPFS) costs and therefore improvements made in one or more Architectural Component sub-categories will influence cost and needs within one or more of the Renewable Energy Resolution Goal (MEPFS) sub-categories. The assumption of the cost figures represent a value of implementation in current market conditions without projections of future costs.

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			Sustainability and Energy Efficiency	Plumbing	HVAC	Power/Lighting/Technology	Fire Suppression	Site Elements	Building Envelope	Life Safety	Accessibility	Interior Finishes	Specialty Areas/ Need	Aesthetics			
Elementary Schools:																	
Facility			Projects to Meet Renewable Energy Resolution Goal (Mechanical, Electrical, Plumbing, and Fire Suppression - MEPFS)*					Architectural Components to Complete Facility-Specific Renovation **							Subtotal: Renewable Energy	Subtotal: Architectural Components	Total Cost
			Sustainability and Energy Efficiency	Plumbing	HVAC	Power/Lighting/Technology	Fire Suppression	Site Elements	Building Envelope	Life Safety	Accessibility	Interior Finishes	Specialty Areas/ Need	Aesthetics			
Elementary Schools			\$63,157,500	\$49,720,500	\$166,174,500	\$152,737,500	\$16,110,000	\$16,620,000	\$27,224,000	\$24,496,000	\$21,688,000	\$21,944,000	\$13,796,000	\$16,232,000	\$447,900,000	\$142,000,000	\$589,900,000
Combined Elementary/Middle Schools			\$19,726,000	\$15,499,000	\$52,133,000	\$47,906,000	\$5,636,000	\$5,935,500	\$9,687,000	\$8,753,000	\$7,740,000	\$7,819,000	\$4,922,500	\$5,793,000	\$140,900,000	\$50,650,000	\$191,550,000
Middle Schools			\$13,442,250	\$10,595,250	\$35,269,250	\$32,422,250	\$3,171,000	\$2,210,600	\$3,182,000	\$2,999,500	\$2,675,700	\$3,043,600	\$1,866,200	\$2,272,400	\$94,900,000	\$18,250,000	\$113,150,000
Combined /Middle/High Schools			\$3,922,000	\$3,103,000	\$10,201,000	\$9,382,000	\$692,000	\$1,501,500	\$3,003,000	\$2,457,000	\$2,184,000	\$1,911,000	\$1,228,500	\$1,365,000	\$27,300,000	\$13,650,000	\$40,950,000
Other			\$3,094,000	\$2,431,000	\$8,177,000	\$7,514,000	\$884,000	\$1,215,500	\$2,431,000	\$1,989,000	\$1,768,000	\$1,547,000	\$994,500	\$1,105,000	\$22,100,000	\$11,050,000	\$33,150,000
Total			\$103,341,750	\$81,348,750	\$271,954,750	\$249,961,750	\$26,493,000	\$27,483,100	\$45,527,000	\$40,694,500	\$36,055,700	\$36,264,600	\$22,807,700	\$26,767,400	\$733,100,000	\$235,600,000	\$968,700,000

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