Bismarck Public Schools Facility Needs Assessment
Summary (2025)

District Buildings	Long-Range Priority	Low Priority	Moderate Priority	High Priority	Immediate Priority	Deferred Maint. Total	Programatic Improvements	District Total
	Priority							
	0 to 1	1.1 to 2	2.1 to 3	3.1 to 4	4.1 to 5		Remodel/ Additions/ New Bldgs	
BECEP-Richholt	$ 89,280	$ 347,040	$ -	$ 598,240	$ 1,041,840	**$ 2,076,400**	$ -	**$ 2,076,400**
Centennial Elementary School	$ 318,060	$ -	$ 270,720	$ 737,828	$ 519,660	**$ 1,846,268**	$ 2,244,600	**$ 4,090,868**
Elk Ridge Elementary School	$ -	$ -	$ -	$ -	$ -	**$ -**	$ -	**$ -**
Grimsrud Elementary School	$ -	$ -	$ -	$ -	$ -	**$ -**	$ 5,945,195	**$ 5,945,195**
Highland Acres Elementary School	$ -	$ 69,840	$ 445,860	$ 1,488,200	$ -	**$ 2,003,900**	$ 1,454,400	**$ 3,458,300**
Liberty Elementary School	$ -	$ -	$ -	$ -	$ -	**$ -**	$ -	**$ -**
Lincoln Elementary School	$ -	$ -	$ -	$ -	$ -	**$ -**	$ -	**$ -**
Miller Elementary School	$ 168,480	$ 11,880	$ 552,240	$ 851,480	$ 214,560	**$ 1,798,640**	$ 302,400	**$ 2,101,040**
Moses Elementary School	$ -	$ 130,500	$ 1,060,560	$ 780,320	$ 1,392,300	**$ 3,363,680**	$ 918,360	**$ 4,282,040**
Murphy Elementary School	$ 29,160	$ 128,160	$ 133,200	$ 874,420	$ 1,076,040	**$ 2,240,980**	$ -	**$ 2,240,980**
Myhre Elementary School	$ -	$ -	$ -	$ -	$ -	**$ -**	$ 7,124,510	**$ 7,124,510**
Northridge Elementary School	$ -	$ 118,944	$ 157,000	$ -	$ -	**$ 275,944**	$ -	**$ 275,944**
Pioneer Elementary School	$ -	$ -	$ -	$ -	$ -	**$ -**	$ 4,300,000	**$ 4,300,000**
Prairie Rose Elementary School	$ 223,560	$ 5,760	$ 59,400	$ 1,306,800	$ -	**$ 1,595,520**	$ 252,720	**$ 1,848,240**
Roosevelt Elementary School	$ 4,392	$ 15,120	$ 396,000	$ 1,818,440		**$ 2,233,952**	$ 348,300	**$ 2,582,252**
Silver Ranch Elementary School	$ -	$ -	$ -	$ -	$ -	**$ -**	$ -	**$ -**
Solheim Elementary School	$ 396,360	$ 78,480	$ 436,320	$ 750,600	$ 429,120	**$ 2,090,880**	$ 2,282,400	**$ 4,373,280**
Sunrise Elementary School	$ -	$ 408,960	$ -	$ -	$ -	**$ 408,960**	$ -	**$ 408,960**
Will Moore Elementary School	$ -	$ -	$ -	$ -	$ -	**$ -**	$ 1,650,000	**$ 1,650,000**
New Elementary or Additions	$ -	$ -	$ -	$ -	$ -	**$ -**	$ 24,000,000	**$ 24,000,000**
Horizon Middle School	$ -	$ 1,328,400	$ 385,200	$ 1,756,800	$ -	**$ 3,470,400**	$ -	**$ 3,470,400**
Simle Middle School	$ 172,080	$ 801,720	$ 1,444,720	$ 687,240	$ -	**$ 3,105,760**	$ 646,740	**$ 3,752,500**
Wachter Middle School	$ -	$ 1,290,640	$ 10,800	$ 986,740	$ 1,581,120	**$ 3,869,300**	$ -	**$ 3,869,300**
Bismarck High School	$ -	$ 687,380	$ 250,560	$ 1,327,820	$ 1,296,000	**$ 3,561,760**	$ 1,000,800	**$ 4,562,560**
Century High School	$ -	$ 478,440	$ 287,280	$ 859,940	$ 2,976,480	**$ 4,602,140**	$ 13,711,852	**$ 18,313,992**
Legacy High School	$ -	$ -	$ -	$ -	$ -	**$ -**	$ -	**$ -**
South Central High School	$ 286,560	$ 65,340	$ 547,740	$ 1,551,600	$ 22,320	**$ 2,473,560**	$ 198,640	**$ 2,672,200**
Hughes Educational Center	$ 103,500	$ 1,108,188	$ 1,122,400	$ 347,000	$ -	**$ 2,681,088**	$ 362,880	**$ 3,043,968**
Career Academy	$ -	$ 316,620	$ -	$ -	$ -	**$ 316,620**	$ -	**$ 316,620**
Career Academy - Silver Ranch	$ -	$ -	$ -	$ -	$ -	**$ -**	$ 2,500,000	**$ 2,500,000**
Sanford Athletic Complex	$ -	$ -	$ -	$ -	$ -	**$ -**	$ 89,280	**$ 89,280**
Facilities and Transportation	$ 323,280	$ 228,960	$ 12,240	$ 68,400	$ -	**$ 632,880**	$ -	**$ 632,880**
Central Kitchen	$ -	$ -	$ -	$ -	$ -	**$ -**	$ 6,000,000	**$ 6,000,000**
	$ 2,114,712	**$ 7,620,372**	**$ 7,572,240**	**$ 16,791,868**	**$ 10,549,440**	**$ 44,648,632**	**$ 75,333,077**	**$ 119,981,709**
							2025	**$ 125,980,794**
							2026	**$ 132,279,834**
							2027	**$ 138,893,826**

BECEP @ Richholt

Code	Item	Description	Current Cost (2024)	Weighted Priority
INT.1	NW Wing Ceiling	This is a cost estimate for a project laid out in the Bismarck Public Schools plan.	$ 5,040.00	4.4
V.5b	Unit Ventilator to Central AHU Systems	This ventilation improvement opportunity includes replacing all the existing unit ventilators in the classrooms with new central air handling systems designed to provide required heating, ventilation, and cooling control. It will provide new supply and return air ductwork as applicable for the new systems. The new systems will be designed to comply with current codes, standards and statutes regarding return/relief air, ventilation rates and air filtration.	$ 1,036,800.00	4.1
V.1	1981 S-1 (Gymnasium) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system S-1 from 1981 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the Gymnasium.	$ 84,960.00	3.8
V.2	1981 S-2 (Offices) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system S-2 from 1981 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 30,240.00	3.8
V.3	1981 S-3 (Kitchen) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system S-3 from 1981 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the kitchen.	$ 27,540.00	3.8
V.4	1981 S-4 (Basement) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system S-4 from 1981 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 27,540.00	3.8
C.2	Energy Management System - Enhance Scope	In addition to implementing the DDC system improvements as described in C.1a, this facility improvement measure option is aimed at enhancing the digital control systems at the building. Additionally, pneumatic controls in the building would be replaced with new electric & DDC control.	$ 199,000.00	3.6
M.1	Boiler Replacement	These modular boilers should be replaced with a higher efficiency hot water boiler system with redundancy and improved temperature control.	$ 228,960.00	3.4
EXT.3	Roof Replacement (Area B - Office/Kitchen)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2030).	$ 111,600.00	1.35
EXT.2	Roof Replacement (Area A -Gymnasium)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2030).	$ 70,560.00	1.3
EXT.4	Roof Replacement (Area C - Library)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2030).	$ 32,040.00	1.1
EXT.5	Roof Replacement (Area D - Old Front)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2030).	$ 83,160.00	1.1
EXT.6	Roof Replacement (Area E - North Wing)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2030).	$ 49,680.00	1.1
E.2	Electric Distribution Allowance	This is an allowance to upgrade the electrical distribution system in the applicable facility to meet NEC standards, present loads and anticipated future electrical needs. Electrical distribution system upgrades would include replacement and expansion of electrical circuit wiring, outlets, switches, circuit breakers, distribution panels and sub-panels necessary to support the technologies of 21st century educational programming.	$ 89,280.00	0.5
			$ 2,076,400.00	

Centennial Elementary School

Code	Item	Description	Current Cost (2024)	Weighted Priority
PROG.1	Addition: Multi Purpose & Music, Expand Existing Kitchen / Relocate Line Access to New Addition, Secure Entry Vestibule Addition and Renovation/Remodel Office, Remodel Nurse Space	Build an addition to provide classroom space for all music departments, provide adequate kitchen space for the number of students and install a secure entry for the facility.	$ 2,109,600.00	
PROG.2	Remodel Restrooms	Update existing restrooms, and provide additional ADA compliant restrooms in new addition.	$ 60,480.00	
PROG.3	Expand Parking to the West of the Existing Picnic Shelter	Provide additional parking on site to the West of the existing picnic shelter.	$ 74,520.00	
EQUIP.1	Elevator Update	Otis recommends installing a modernization package to update the elevator control system, a new hoist way and traveling cable, updated door operator and new fixtures to improve appearance.	$ 80,640.00	4.5
V.1	Addition: Multi Purpose & Music, Expand Existing Kitchen / Relocate Line Access to New Addition, Secure Entry Vestibule Addition and Renovation/Remodel Office, Remodel Nurse Space	This ventilation improvement opportunity includes replacing the existing ventilation system from 1988 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 23,940.00	4.3
V.2	Remodel Restrooms	This ventilation improvement opportunity includes replacing the existing ventilation system from 1988 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 79,920.00	4.3
V.3	Expand Parking to the West of the Existing Picnic Shelter	This ventilation improvement opportunity includes replacing the existing ventilation system from 1988 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 15,120.00	4.3
E.2	Exterior Light Pole Replacement	This facility improvement measure includes replacing the exterior light poles with new same sized poles.	$ 31,140.00	4.1
M.5	AH-3 Add VAV Boxes	Add VAV boxes to the 5 zones to better control A/C in in summer so hot water is not required and ventilation rates can be reduced. Requires 5 VAV boxes with DDC controls, VFD on the supply fan, and a duct static pressure sensor.	$ 38,340.00	4
M.6	AH-4 & 5 VAV Box Replacement	Replace VAV Boxes with new VAV boxes and DDC controls, electric reheat valve and electric radiation valves. Current boxes are Trane VAV boxes with an internal pneumatic damper that can't be retrofitted to DDC. Boxes could be retrofitted to DDC but damper would have to remain pneumatic and controlled by a pneumatic transducer.	$ 250,560.00	4
C.1	Energy Management System - Enhance Scope	In addition to implementing the DDC system improvements as described in C.1a, this facility improvement measure option is aimed at enhancing the digital control systems at the building. Additionally, pneumatic controls in the building would be replaced with new electric & DDC control.	$ 93,500.00	3.6
M.3	Air Cooled Chiller Replacement	This air cooled chiller provides cooling to the variable air volume boxes that serve the building and replacement should be planned with a higher efficiency unit.	$ 106,560.00	3.4
M.4	Furnace Replacement	It is recommended to replace this furnace with a new higher efficiency furnace unit.	$ 7,128.00	3.3
M.1	Boiler Replacement	These modular boilers should be replaced with a higher efficiency hot water boiler system with redundancy and improved temperature control.	$ 210,960.00	3.2
V.4	AHU-4 Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system from 1988 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 159,840.00	3.2
V.5	AHU-5 Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system from 1988 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 159,840.00	3.2
LS.2	Install Fire Suppression Sprinklers	This facility improvement opportunity includes installing a sprinkler system throughout the building. This upgrade would require evaluation of the location and capacity of the city water main to provide sufficient volume and pressure for fire sprinkler protection.	$ 270,720.00	2.3

Centennial Elementary School

Code	Item	Description	Current Cost (2024)	Weighted Priority
G.1	Concrete Replacement (Area A and B)	It is recommended to repair exterior concrete surfaces, which will help improve safety and minimize moisture intrusion to prevent further damage (due for replacement in 2018).	$ 277,920.00	0.9
INT.3	Area E Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2028).	$ 40,140.00	0.9
			$ 4,090,868.00	

Grimsrud Elementary School

Code	Item	Description	Current Cost (2024)	Weighted Priority
PROG.1	Addition: Gym, Remove Stage in Multi-Purpose Room, Enlarge Kitchen into Multi-Purpose Area (Allowance), Move Table Storage from 404A into a Portion of Old Stage Area	Provide new gym addition, provide new classroom addition on South side of building, enlarge multi-purpose room by removing stage, enlarge kitchen into existing multi-purpose room, expand restrooms into adjacent classrooms, provide new ceiling tile throughout all corridors. Provide (2) new classrooms in addition combined with gym on North side of facility.	$ 5,945,195.00	
V.4	AH-1, AH-2, AH-3 Replacement -Full Ventilation Upgrade	In addition to the new air handling system, the system would be converted to a variable air volume system. New ductwork would be added because the existing ductwork is underground.		4.1
V.5	AH-4 Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system from 1964 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.		3.8
C.1b	Energy Management System - Enhance Scope	In addition to implementing the DDC system improvements, this facility improvement measure option is aimed at enhancing the digital control systems at the building. Additionally, pneumatic controls in the building would be replaced with new electric & DDC control.		3.6
M.1	Boiler Replacement	These Burnham boilers should be replaced with a higher efficiency hot water boiler system with redundancy and improved temperature control.		3.2
M.3	Hot Water Pump Replacement	The pumps and motors should be replaced with higher efficiency systems.		3.2
LS.1	Fire Alarm System Upgrade	Replace the relevant fire alarm systems with a new system that has the capability for addressable inputs and meets all codes and standards.		3
M.2	Hot Water Piping Replacement	The hot water distribution piping should be planned to be replaced in the future.		2.9
LS.2	Install Fire Suppression Sprinklers	This facility improvement opportunity includes installing a sprinkler system throughout the building. This upgrade would require evaluation of the location and capacity of the city water main to provide sufficient volume and pressure for fire sprinkler protection.		2.3
EXT.2	Window Replacement	It is recommended that the older, inefficient window systems be replaced with new energy efficient window systems.		2.2
U.1	Expand Irrigation Around School	Expand the irrigation system to water the grass area to the south and west of the facility.		2.2
INT.2	Adhered Fiberboard Ceiling Replacement	This facility improvement opportunity includes upgrading the ceiling system in the facility with a new ceiling system to brighten and refresh each space. This doesn't include removing the existing adhered fiberboard.		1.8
INT.4	Area B Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 1984).		1.8
INT.1	Casework Replacement	It is recommended to modernize and update casework to match the needs of each space.		1.5
INT.3	Interior Door Replacement	It is recommended to replace the interior doors with new door systems that have ADA hardware installed. There is additional money included for touching up the existing frame.		1.5
INT.5	Area D Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2010).		1.5
INT.6	Area E Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2010).		1.5
EXT.3	Door Replacement	It is recommended that the older, inefficient door systems be replaced with new energy efficient door systems.		0.8
			$ 5,945,195.00	

Highland Acres Elementary School

Code	Item	Description	Current Cost (2024)	Weighted Priority
PROG.1	Remodel: Library, Add Secure Entry, New Classroom Casework w/Sink, Remove Existing Stage, Addition: All Specialists, Music, and (1) Classroom Currently in Portables, New Playground - Relocated Due to Addition (Allowance), New Corridor / Gym Wall	Remove existing stage in gym to provide more space, provide new wall separating gym from main corridor, replace classroom casework, provide new vestibule in same location as existing canopy, provide new pre-K addition with dedicated counselor and social worker space.	$ 1,454,400.00	
C.1	Energy Management System - Enhance Scope	In addition to implementing the DDC system improvements as described in C.1a, this facility improvement measure option is aimed at enhancing the digital control systems at the building. Additionally, pneumatic controls in the building would be replaced with new electric & DDC control.	$ 185,000.00	3.5
V.1	Full Building Ventilation Upgrade	This ventilation improvement opportunity includes replacing all the existing unit ventilators in the classrooms with new central air handling systems designed to provide required heating, ventilation, and cooling control. It will provide new supply and return air ductwork as applicable for the new systems. The new systems will be designed to comply with current codes, standards and statutes regarding return/relief air, ventilation rates and air filtration.	$ 1,303,200.00	3.2
M.2	Mini Split Unit Replacement	These cooling units should be replaced and upgraded if they will continue to be utilized as the cooling source for these spaces.	$ 21,420.00	2.9
HAZ.1	Asbestos Popcorn Ceiling Replacement	This opportunity includes an allowance for removal of asbestos in the popcorn ceiling with ACMs.	$ 131,760.00	2.7
HAZ.2	Asbestos Tile Replacement	This opportunity includes an allowance for removal of existing tile with ACMs.	$ 64,440.00	2.7
LS.1	Fire Alarm System Upgrade	Replace the relevant fire alarm systems with a new system that has the capability for addressable inputs and meets all codes and standards.	$ 51,840.00	2.7
M.1	Boiler Replacement	These Burnham boilers should be replaced with a higher efficiency hot water boiler system with redundancy and improved temperature control.	$ 176,400.00	2.7
EXT.2	Roof Replacement (Area A -Main)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2030).	$ 69,840.00	1.3
			$ 3,458,300.00	

Miller Elementary School

Code	Item	Description	Current Cost (2024)	Weighted Priority
PROG.1	Remodel: Front Office Core, Remodel: Vestibules	Remodel existing office space, to include addition of new secure entry doors and access points.	$ 145,440.00	
PROG.2	Remodel 4 Bathroom Cores	Remodel (4) existing restroom cores.	$ 156,960.00	
M.4	VAV Replacement	Replace VAV Boxes with new VAV boxes and DDC controls, electric reheat valve and electric radiation valves. Current boxes are Trane VAV boxes with an internal pneumatic damper that can't be retrofitted to DDC. Boxes could be retrofitted to DDC but damper would have to remain pneumatic and controlled by a pneumatic transducer.	$ 214,560.00	4.4
V.1	AH 78-1 (North Classrooms) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system from 1978 serving the North classrooms with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 113,760.00	3.8
V.2	AH 78-2 (Office Area) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system from 1978 serving the office area with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 33,840.00	3.8
V.3	AH-78-3 (Gym) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system from 1978 serving the Gymnasium with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 76,320.00	3.8
V.4	S-1 (1981 Classrooms) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system from 1981 serving the classrooms with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 100,080.00	3.8
C.1	Energy Management System - Enhance Scope	In addition to implementing the DDC system improvements as described in C.1a, this facility improvement measure option is aimed at enhancing the digital control systems at the building. Additionally, pneumatic controls in the building would be replaced with new electric & DDC control.	$ 431,000.00	3.6
M.3	Hot Water Pump Replacement	The pumps and motors should be replaced with higher efficiency systems.	$ 96,480.00	3.2
M.2	Hot Water Distribution Piping	The hot water distribution piping should be planned to be replaced in the future.	$ 341,280.00	2.9
M.1	Boiler Replacement	These modular boilers should be replaced with a higher efficiency hot water boiler system with redundancy and improved temperature control.	$ 210,960.00	2.6
INT.6	Gymnasium Ceiling Replacement	This facility improvement opportunity includes upgrading the Gymnasium ceiling system to a new system that is appropriate for a Gymnasium. Grid to remain.	$ 11,880.00	1.5
INT.1	Area A Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2025).	$ 49,680.00	0.9
INT.1	Area B Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2025).	$ 55,440.00	0.9
INT.4	Area D Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2025).	$ 63,360.00	0.9
			$ 2,101,040.00	

Moses Elementary School

Code	Item	Description	Current Cost (2024)	Weighted Priority
PROG.1	Remodel: Expand Kitchen (Allowance), Addition: New Multi-Purpose Addition	There is an allowance to expand the kitchen, provide new multi-purpose addition to support the facility.	$ 907,200.00	
PROG.2	Remodel: Apartment Entry, Remove Door from Boys Bathroom (Allowance)	There is an allowance to provide new corridor access to the staff apartment and remove door from boys restroom that currently leads to the apartment.	$ 11,160.00	
V.1	AHU 70-1 (West Classrooms)-Full Ventilation Upgrade	In addition to the new air handling system identified in V.1a, the system would be converted to a variable air volume system. Ductwork would be installed overhead vs the tunnel system used now.	$ 900,000.00	4.1
V.2	HV-1 (Gym) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system serving the Gym from 1976 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 112,320.00	4.1
V.3	HV-2 (Kitchen) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system from 1976 serving the Kitchen with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 67,680.00	4.1
V.4	AC 76-1 (1976 NE Classrooms) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system from 1976 serving the NE Classrooms with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 137,520.00	4.1
V.5	AC 76-2 (1976 Office Area) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system serving the Office Area from 1976 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 19,980.00	4.1
V.6	AC 76-3 (1976 Teachers Lounge)	This ventilation improvement opportunity includes replacing the existing ventilation system serving the Teachers Lounge from 1976 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 17,280.00	4.1
V.7	AC 79-1 (1979 NW Classrooms)	This ventilation improvement opportunity includes replacing the existing ventilation system serving the NW Classrooms from 1979 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 137,520.00	4.1
M.1	Boiler Replacement	These boilers should be replaced with a higher efficiency hot water boiler system with redundancy and improved temperature control.	$ 310,320.00	3.6
C.1	Energy Management System - Enhance Scope	In addition to implementing the DDC system improvements as described in C.1a, this facility improvement measure option is aimed at enhancing the digital control systems at the building. Additionally, pneumatic controls in the building would be replaced with new electric & DDC control.	$ 470,000.00	3.6
M.2	Hot Water Distribution Piping Replacement	The hot water distribution piping should be planned to be replaced in the future.	$ 681,120.00	2.9
LS.1	Install Fire Sprinklers	This facility improvement opportunity includes installing a sprinkler system throughout the building. This upgrade would require evaluation of the location and capacity of the city water main to provide sufficient volume and pressure for fire sprinkler protection.	$ 299,520.00	2.3
EXT.2	Roof Replacement (Area A -Gymnasium)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2018).	$ 79,920.00	2.25
INT.1	Area A Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2015).	$ 47,880.00	1.8
INT.2	Area B Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2015).	$ 19,980.00	1.8
INT.3	Area E Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2015).	$ 62,640.00	1.8
			$ 4,282,040.00	

Murphy Elementary School

Code	Item	Description	Current Cost (2024)	Weighted Priority
EQUIP.1	Elevator Update	Otis recommends installing a modernization package to update the elevator control system, a new hoist way and traveling cable, updated door operator and new fixtures to improve appearance.	$ 80,640.00	4.5
V.2	AC 77-3 (1976 Teachers Lounge) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system serving the Teachers Lounge from 1976 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 17,280.00	4.1
V.3	AC 77-5 (1968 Commons) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system serving the Commons from 1968 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 28,440.00	4.1
V.4	1968 Addition Ventilation Upgrade	The ventilation system serving the 1968 addition should be upgraded to a variable air volume system designed to provide required heating, ventilating and cooling control with overhead ductwork to replace the tunnel ductwork.	$ 843,120.00	4.1
V.5	HV-1 (Gym) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system serving the Gym from 1976 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 106,560.00	4.1
V.6	AC 81-1 (1981 Lower Level Classrooms) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system serving the Lower Level Classrooms from 1981 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 72,720.00	3.8
V.7	AC 81-2 (1981 Lower Level Classrooms) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system serving the Lower Level Classrooms from 1981 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 72,720.00	3.8
C.1	Energy Management System - Enhance Scope	In addition to implementing the DDC system improvements as described in C.1a, this facility improvement measure option is aimed at enhancing the digital control systems at the building. Additionally, pneumatic controls in the building would be replaced with new electric & DDC control.	$ 412,000.00	3.6
M.1	Boiler Replacement	These Burnham boilers should be replaced with a higher efficiency hot water boiler system with redundancy and improved temperature control.	$ 301,680.00	3.3
M.2	Hot Water Pump Replacement	The pumps and motors should be replaced with higher efficiency systems.	$ 15,300.00	3.2
HAZ.1	Adhered Ceiling Asbestos Abatement	This opportunity includes an allowance for removal of asbestos in the adhered ceiling with ACMs.	$ 133,200.00	2.7
T.1	PA System Upgrade	This facility improvement opportunity includes installing a new state of the art PA system.	$ 56,520.00	1.8
INT.1	Area C Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2025).	$ 71,640.00	1.2
G.1	Concrete Replacement (Area A)	Replace this area of concrete per the Bismarck Public Schools replacement plan (due for replacement in 2029).	$ 29,160.00	0.7
			$ 2,240,980.00	

Myhre Elementary School

Code	Item	Description	Current Cost (2024)	Weighted Priority
PROG.1	Classroom addition. Move office. Additional parking.	Classroom addition. Move office. Additional parking.	$ 7,124,510.00	
V.1	Classroom Ventilation Upgrade	This ventilation improvement opportunity includes replacing the existing ventilation system from 1972 and 2008 cooling only furnaces with a new central air handling unit designed to provide required heating, ventilating and cooling control. New overhead ductwork would be installed. The new air handling unit will be resized based off the needs of the spaces it serves.		4.5
PROG.1	Remodel: Relocate offices from 100 / 100A, Renovate 138/139 in Music, Remodel: Turn Stage into storage	Move offices into former music spaces, move music spaces into former office area, remove existing stage.		4.3
M.1	Boiler Replacement	These Kewanee boilers should be replaced with a higher efficiency hot water boiler system with redundancy and improved temperature control.		3.5
M.3	Hot Water Pump Replacement	The pumps and motors should be replaced with higher efficiency systems.		3.5
V.3	Building Ventilation Upgrade	This facility improvement measure includes replacing the existing air handling systems with new systems designed to provide required heating, ventilating and cooling control to meet the needs of the occupants. It will provide new supply and return air ductwork as applicable for the new systems. The new systems will be designed to comply with current codes, standards and statutes regarding return/relief air, ventilation rates and air filtration.		3.5
C.1b	Energy Management and DDC - All Equipment	Installing an energy management system (EMS) and direct digital controls (DDC) on all equipment (including room level equipment) can lead to greater control of the equipment and comfort in the space from occupants.		3.2
M.2	Hot Water Distribution Piping Replacement	The hot water distribution piping should be planned to be replaced in the future.		2.9
EXT.1	Seal Building Envelope	Opportunities exist for sealing air gaps to prevent untreated air from entering the building that needs to be heated or cooled		2.7
LS.1	Install Fire Suppression Sprinklers	This facility improvement opportunity includes installing a sprinkler system throughout the building. This upgrade would require evaluation of the location and capacity of the city water main to provide sufficient volume and pressure for fire sprinkler protection.		2.3
EXT.2	Roof Replacement (Area H - Phase II South)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2019).		2.2
EXT.3	Roof Replacement (Area I - Phase III East)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2019).		2.2
P.1	Upgrade Community Handwash Stations	These community sinks should be updated and modernized with a new style sink system for the restrooms.		1.8
INT.1	Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2030).		1.5
INT.6	Ceiling Grid Replacement	This facility improvement opportunity includes upgrading the ceiling system in the facility with new ceiling panels to brighten and refresh each space. The grid would be replaced in this facility improvement measure.		1.5
INT.7	Casework Replacement	It is recommended to modernize and update casework to match the needs of each space.		1.5
G.2	Asphalt Replacement (Area B)	Replace this area of asphalt per the Bismarck Public Schools replacement plan (due for replacement in 2027).		1.4
G.3	Asphalt Replacement (Area D)	Replace this area of asphalt per the Bismarck Public Schools replacement plan (due for replacement in 2030).		1.4
G.4	Playground Asphalt Replacement	It is recommended to replace the playground asphalt surface, which will help improve safety and minimize moisture intrusion to prevent further damage.		1.4
U.1	Add Irrigation System	Install an irrigation system to water the grass area to the south of the facility.		1.2
EXT.4	Exterior Door Replacement	It is recommended that the older, inefficient door systems be replaced with new energy efficient door systems.		0.9
G.1	Concrete Replacement (Area A)	Replace this area of concrete per the Bismarck Public Schools replacement plan (due for replacement in 2030).		0.7
PROG	Facility Programmatic / Educational Adequacy Enhancements			
			$ 7,124,510.00	

Northridge Elementary School

Code	Item	Description	Current Cost (2024)	Weighted Priority
EXT.1	Roof Replacement (Area B - Main East)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2026).	$ 157,000.00	2.075
EXT.5	Roof Replacement (Area F - Boiler Room)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2026).	$ 8,712.00	1.9
EXT.6	Roof Replacement (Area G - Stairwell)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2026).	$ 6,552.00	1.9
EXT.3	Roof Replacement (Area D - Gymnasium)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2030).	$ 61,200.00	1.3
EXT.4	Roof Replacement (Area E - Office)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2030).	$ 42,480.00	1.1
			$ 275,944.00	

Pioneer Elementary School

Code	Item	Description	Current Cost (2024)	Weighted Priority
PROG.1	Addition/Remodel	Provide an elevator and ADA-compliant bathrooms to ensure full accessibility throughout the building. Construct a new secure and visible front entrance to enhance safety and visitor management. Develop permanent learning spaces by adding classrooms, support areas, and a music room, eliminating the need for existing portable classrooms.	$ 4,300,000.00	
EXT.3	Window Replacement	It is recommended that the older, original, inefficient window systems be replaced with new energy efficient window systems.		4.6
C.1	Energy Management System - Base Scope	It is recommended to enhance the existing digital control systems, recommission EMS programming and sequences of operation to provide state-of-the art control strategies to optimize system performance and improve efficiency.		3.85
V.1b	UV Replacement to Central Systems	This ventilation improvement opportunity includes replacing all the existing unit ventilators in the classrooms with new central air handling systems designed to provide required heating, ventilation, and cooling control. It will provide new supply and return air ductwork as applicable for the new systems. The new systems will be designed to comply with current codes, standards and statutes regarding return/relief air, ventilation rates and air filtration.		3.8
M.1	Boiler Replacement	There are two separate hot water loops currently that should be tied together. All boilers should be replaced with a higher efficiency hot water boiler system with redundancy and improved temperature control.		3.5
EXT.1	Seal Building Envelope	Opportunities exist for sealing air gaps to prevent untreated air from entering the building that needs to be heated or cooled		3
LS.1	Fire Alarm System Upgrade	Replace the relevant fire alarm systems with a new system that has the capability for addressable inputs and meets all codes and standards.		3
HAZ.1	Plaster Ceiling Asbestos Abatement	This opportunity includes an allowance for removal of asbestos in the plaster ceiling with ACMs.		2.7
INT.1	Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan.		1.8
INT.6	Plaster Ceiling Replacement	This facility improvement opportunity includes upgrading the ceiling system in the facility with new ceiling panels to brighten and refresh each space. This work would be performed in conjunction with HAZ.1.		1.8
INT.7	Interior Door Replacement	It is recommended to replace the interior doors with new door systems that have ADA hardware installed. There is additional money included for touching up the existing frame.		1.8
INT.8	Update Hook and Shelf to Cubbies	Update the hook and shelf systems with new cubbies systems to provide greater space for students to store their items.		1.8
T.1	PA System Upgrade	This facility improvement opportunity includes installing a new state of the art PA system.		1.8
G.1	Asphalt Replacement (Area A)	Replace this area of asphalt per the Bismarck Public Schools replacement plan (due for replacement in 2020).		1.4
G.2	Playground Asphalt Replacement	It is recommended to replace the playground asphalt surface, which will help improve safety and minimize moisture intrusion to prevent further damage.		1.4
EXT.4	Exterior Door Replacement	It is recommended that the older, inefficient door systems be replaced with new energy efficient door systems.		0.9
EXT	Exterior Envelope Including Roofing			
V	Ventilation / Dehumidification Systems		$ 4,300,000.00	

Prairie Rose Elementary School

Code	Item	Description	Current Cost (2024)	Weighted Priority
PROG.1	Entryway / Elevator Addition (Enclosed Lift)	Provide an addition to house the new elevator and lobby.	$ 252,720.00	
C.1	Energy Management System - All Equipment	Installing an energy management system (EMS) and direct digital controls (DDC) on all equipment (including room level equipment) can lead to greater control of the equipment and comfort in the space from occupants.	$ 306,000.00	3.85
V.1	Complete Building Ventilation Upgrade	This ventilation improvement opportunity includes replacing all the existing furnaces with new central air handling systems designed to provide required heating, ventilation, and cooling control. It will provide new supply and return air ductwork as applicable for the new systems. The new systems will be designed to comply with current codes, standards and statutes regarding return/relief air, ventilation rates and air filtration.	$ 1,000,800.00	3.1
EXT.2	Roof Replacement (Area A - Original Phase)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2020).	$ 59,400.00	2.25
EXT.5	Roof Replacement (Area E - Penthouse)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2030).	$ 5,760.00	1.1
G.1	Concrete Replacement (Area A)	Replace this area of concrete per the Bismarck Public Schools replacement plan (due for replacement in 2025).	$ 174,960.00	0.9
INT.1	Area B Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2015).	$ 30,780.00	0.9
INT.2	Area D Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2015).	$ 17,820.00	0.9
			$ 1,848,240.00	

Roosevelt Elementary School

Code	Item	Description	Current Cost (2024)	Weighted Priority
PROG.1	New Interior Vestibule for Secure Entry, Remodel: Front Office to Accommodate Secure Entrance & Expand into 124	Provide new interior vestibule with doors into office for secure entry. Remodel the office to accommodate the changes to the entry configuration.	$ 50,400.00	
PROG.2	Additional Parking in SE Corner	Provide additional parking stalls to the SE of the building.	$ 39,240.00	
PROG.4	Replace Exterior Wall Panels	Replace exterior wall panels with a new storefront system.	$ 246,960.00	
PROG.5	Combine Two Rooms into One ADA Unisex Restroom	Combine existing restroom space with adjacent storage space to make (1) ADA single-user restroom.	$ 11,700.00	
C.1	Energy Management System - Enhance Scope	In addition to implementing the DDC system improvements as described in C.1a, this facility improvement measure option is aimed at enhancing the digital control systems at the building. Additionally, pneumatic controls in the building would be replaced with new electric & DDC control.	$ 102,500.00	3.9
M.1	Boiler Replacement	These HydroTherm boilers should be replaced with a higher efficiency hot water boiler system with redundancy and improved temperature control.	$ 157,680.00	3.6
V.1	AHU-2 (Computer Room) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system serving the Computer Room from 1999 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 24,480.00	3.5
V.2	AHU-3 (Staff Room & Office) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system serving the staff room and office from 1999 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 21,420.00	3.5
V.3	ERU-1 (Lower Classrooms) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system serving the lower level classrooms from 1999 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 36,360.00	3.5
V.4	Complete Building Ventilation Upgrade	This ventilation improvement opportunity includes replacing all the existing air handling systems with new central air handling systems designed to provide required heating, ventilation, and cooling control. It will provide new supply and return air ductwork as applicable for the new systems. The new systems will be designed to comply with current codes, standards and statutes regarding return/relief air, ventilation rates and air filtration.	$ 1,476,000.00	3.5
M.2	Hot Water Distribution Piping Replacement	The hot water distribution piping should be planned to be replaced in the future.	$ 242,640.00	2.9
M.4	VAV Box Replacement	This facility improvement opportunity includes providing new hot water reheat VAV boxes for the classrooms, currently served by the 2006 AHU-1, designed for the spaces served.	$ 51,840.00	2.9
LS.2	Install Fire Suppression Sprinklers	This facility improvement opportunity includes installing a sprinkler system throughout the building. This upgrade would require evaluation of the location and capacity of the city water main to provide sufficient volume and pressure for fire sprinkler protection.	$ 101,520.00	2.3
G.1	Asphalt Replacement (Area A)	Replace this area of asphalt per the Bismarck Public Schools replacement plan (due for replacement in 2015).	$ 15,120.00	1.5
G.2	Asphalt Replacement (Area B)	Replace this area of asphalt per the Bismarck Public Schools replacement plan (due for replacement in 2027).	$ 4,392.00	0.9
			$ 2,582,252.00	

Solheim Elementary School

Code	Item	Description	Current Cost (2024)	Weighted Priority
PROG.1	Addition: Entry and offices, Remodel: Existing office core into support space, Addition: Multi-purpose / Kitchen, Remodel: Existing rooms into new music area	Provide addition for secure entry adjacent to addition for new offices, remodel existing office space into support spaces, provide new addition for multi-purpose space and kitchen space, remodel and expand existing music area.	$ 2,282,400.00	
EXT.8a	Skylight Improvement	An opportunity exists to replace the skylight systems in the facility to let in more natural light. The new skylight systems available are much more efficient and do not have the leakage issues that are common with the existing skylights.	$ 429,120.00	4.4
V.1	AHU-1 Replacement (Gymnasium)	This ventilation improvement opportunity includes replacing the existing ventilation system serving the Gymnasium from 1986 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 79,920.00	3.2
V.2	AHU-2 Replacement (Kitchen)	This ventilation improvement opportunity includes replacing the existing ventilation system serving the Kitchen from 1986 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 23,940.00	3.2
V.3	AHU-3 and 4 Replacement (Front Offices/Classrooms)	This ventilation improvement opportunity includes replacing the existing ventilation systems serving the front offices and classrooms from 1986 with new central air handling units designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling units will be resized based off the needs of the spaces it serves.	$ 43,020.00	3.2
V.4	AHU-5 Replacement (Classrooms)	This ventilation improvement opportunity includes replacing the existing ventilation system AHU-5, serving the classrooms from 1986 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 117,360.00	3.2
V.5	AHU-6 Replacement (Classrooms)	This ventilation improvement opportunity includes replacing the existing ventilation AHU-6, system from 1986 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 74,520.00	3.2
V.6	AHU-7 Replacement (Classrooms)	This ventilation improvement opportunity includes replacing the existing ventilation system AHU-7, serving the classrooms from 1986 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 93,600.00	3.2
V.7	AHU-8 Replacement (Classrooms)	This ventilation improvement opportunity includes replacing the existing ventilation system AHU-8, serving the classrooms from 1986 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 112,320.00	3.2
M.1	Boiler Replacement	These Burnham boilers should be replaced with a higher efficiency hot water boiler system with redundancy and improved temperature control.	$ 205,920.00	3.1
LS.1	Install Fire Suppression Sprinklers	This facility improvement opportunity includes installing a sprinkler system throughout the building. This upgrade would require evaluation of the location and capacity of the city water main to provide sufficient volume and pressure for fire sprinkler protection.	$ 318,240.00	2.3
EXT.2	Roof Replacement (Area F1 - North Addition)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2016).	$ 23,400.00	2.25
EXT.3	Roof Replacement (Area F2 - North Addition)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2016).	$ 23,400.00	2.2
EXT.4	Roof Replacement (Area G1 - East Addition)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2016).	$ 23,760.00	2.2

Solheim Elementary School

Code	Item	Description	Current Cost (2024)	Weighted Priority
EXT.5	Roof Replacement (Area G2 - East Addition)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2016).	$ 23,760.00	2.2
EXT.6	Roof Replacement (Area H - South Addition)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2016).	$ 23,760.00	2.2
INT.2	Area E Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2020).	$ 78,480.00	1.2
G.1	Concrete Replacement (Area A)	Replace this area of concrete per the Bismarck Public Schools replacement plan (due for replacement in 2025).	$ 180,000.00	0.9
G.2	Asphalt Replacement (Area C)	Replace this area of asphalt per the Bismarck Public Schools replacement plan (due for replacement in 2029).	$ 16,560.00	0.8
G.3	Crushed Concrete Replacement (Area D)	Replace this area of crushed concrete per the Bismarck Public Schools replacement plan (due for replacement in 2030).	$ 20,880.00	0.8
G.4	Crushed Concrete Replacement (Area E)	Replace this area of crushed concrete per the Bismarck Public Schools replacement plan (due for replacement in 2030).	$ 65,880.00	0.8
G.5	Playground Asphalt Replacement	It is recommended to replace the playground asphalt surface, which will help improve safety and minimize moisture intrusion to prevent further damage.	$ 113,040.00	0.8
			$ 4,373,280.00	

Sunrise Elementary School

Code	Item	Description	Current Cost (2024)	Weighted Priority
INT.1	Area A Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2030).	$ 46,080.00	1.5
INT.2	Area B Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2030).	$ 80,280.00	1.5
INT.3	Area C Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2030).	$ 72,360.00	1.5
INT.4	Area D Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2030).	$ 63,000.00	1.5
INT.5	Area E Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2030).	$ 61,200.00	1.5
INT.6	Area F Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2030).	$ 86,040.00	1.5
			$ 408,960.00	

Will-Moore Elementary School

Code	Item	Description	Current Cost (2024)	Weighted Priority
PROG.1	Remodel: Existing (2) story freight elevator into new (3) story passenger elevator, Remodel: Add corridor to 3rd floor for new extended elevator access, Remodel: Move office to new location, Remodel: Old office into new space	This is a cost estimate for a project laid out in the Bismarck Public Schools plan.	$ 1,650,000.00	
C.1	Energy Management System - Base Scope	It is recommended to enhance the existing digital control systems, recommission EMS programming and sequences of operation to provide state-of-the art control strategies to optimize system performance and improve efficiency.		3.85
LS.1	Fire Alarm System Upgrade	Replace the relevant fire alarm systems with a new system that has the capability for addressable inputs and meets all codes and standards.		2.7
LS.2	Install Fire Suppression Sprinklers	This facility improvement opportunity includes installing a sprinkler system throughout the building. This upgrade would require evaluation of the location and capacity of the city water main to provide sufficient volume and pressure for fire sprinkler protection.		2.3
INT.6	Stairwell Modifications	This facility improvement opportunity includes upgrading the ceiling system in the facility with a new ceiling system to brighten and refresh each space.		1.8
INT.7	Interior Door Replacement	It is recommended to replace the interior doors with new door systems that have ADA hardware installed. There is additional money included for touching up the existing frame.		1.8
T.2	PA System Upgrade	This facility improvement opportunity includes installing a new state of the art PA system.		1.8
INT.5	Ceiling Grid Replacement	This facility improvement opportunity includes upgrading the ceiling system in the facility with new ceiling panels to brighten and refresh each space.		1.5
T.1	Clock System Upgrade	This facility improvement opportunity includes installing a new state of the art clock system throughout the facility. The same technology would be deployed throughout, to simplify maintenance and repair.		1.2
G.1	Asphalt Replacement (Area A)	Replace this area of asphalt per the Bismarck Public Schools replacement plan (due for replacement in 2015).		0.9
EXT.3	Exterior Door Replacement	It is recommended that the older, inefficient door systems be replaced with new energy efficient door systems.		0.8
EXT	Exterior Envelope Including Roofing			
			$ 1,650,000.00	

Horizon Middle School

Code	Item	Description	Current Cost (2024)	Weighted Priority
C.1	Energy Management System - Base Scope	It is recommended to enhance the existing digital control systems, recommission EMS programming and sequences of operation to provide state-of-the art control strategies to optimize system performance and improve efficiency.	$ 72,000.00	3.95
M.2	Heat Pump Replacement - Original Building	Because of risk of failure a replacement plan should be put in place for the heat pumps.	$ 1,684,800.00	3.2
M.1	Boiler Replacement - Original Building	These Burnham boilers should be replaced with a higher efficiency hot water boiler system with redundancy and improved temperature control.	$ 385,200.00	2.9
EXT.2	Roof Replacement (Area A - Area N)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2026).	$ 972,000.00	1.95
EQUIP.1	Elevator Upgrade	Otis recommends installing a modernization package to update the elevator control system, a new hoist way and traveling cable, updated door operator and new fixtures to improve appearance.	$ 80,640.00	1.4
INT.1	Area E Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2020).	$ 95,760.00	1.2
INT.4	Area H Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2020).	$ 49,320.00	1.2
INT.5	Area I Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2020).	$ 73,800.00	1.2
INT.6	Area J Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2020).	$ 56,880.00	1.2
			$ 3,470,400.00	

Simle Middle School

Code	Item	Description	Current Cost (2024)	Weighted Priority
PROG.1	Remodel: Expand Cafeteria	Provide new addition for cafeteria expansion to adequately serve the students.	$ 615,600.00	
U.1	Generator	Replace the existing generator with a new generator sized to serve as a backup power source to emergency systems in the facility in the event of a power outage.	$ 31,140.00	
M.2	1992 Heat Pump Replacement	Because of risk of failure a replacement plan should be put in place for the heat pumps.	$ 282,960.00	3.5
EQUIP.1	Elevator Upgrade	Otis recommends installing a modernization package to update the elevator control system, a new hoist way and traveling cable, updated door operator and new fixtures to improve appearance.	$ 80,640.00	3.2
V.1	1991 HRU Replacement	This ventilation improvement opportunity includes replacing the existing energy recovery unit HRU installed in 1991 with a new energy recovery unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new energy recovery unit will be resized based off the needs of the spaces it serves.	$ 90,720.00	3.2
V.2	1992 HRU Replacement	This ventilation improvement opportunity includes replacing the existing energy recovery unit HRU installed in 1992 with a new energy recovery unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new energy recovery unit will be resized based off the needs of the spaces it serves.	$ 27,720.00	3.2
V.3	1992 AHU-1 (Gymnasium) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system AHU-1 from 1992 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 97,200.00	3.2
V.4	1992 AHU-2 (Gymnasium) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system AHU-2 from 1992 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 80,640.00	3.2
V.5	1992 AHU-3 (Gymnasium) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system AHU-3 from 1992 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 27,360.00	3.2
M.1	Boiler Replacement	These Kewanee boilers should be replaced with a higher efficiency hot water boiler system with redundancy and improved temperature control.	$ 385,200.00	2.9
M.3	Original Building Hot Water Piping Replacement	This facility improvement measure includes replacing the original building's hot water piping with new pipe.	$ 803,520.00	2.9
EXT.3	Roof Replacement (Area D - Area F)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2017).	$ 256,000.00	2.2
EXT.2	Roof Replacement (Area A - Area C)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2023).	$ 444,240.00	1.95
INT.1	Area B Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2028).	$ 54,360.00	1.5
INT.2	Area C Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2028).	$ 57,600.00	1.5
INT.3	Area D Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2028).	$ 30,960.00	1.5
INT.6	Area K Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2028).	$ 54,360.00	1.5
INT.7	Area L Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2028).	$ 90,000.00	1.5

Simle Middle School

Code	Item	Description	Current Cost (2024)	Weighted Priority
INT.8	Area M Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2028).	$ 70,200.00	1.5
G.1	Concrete (Area A) Replacement	Replace this area of concrete per the Bismarck Public Schools replacement plan.	$ 172,080.00	0.7
			$ 3,752,500.00	

Wachter Middle School

Code	Item	Description	Current Cost (2024)	Weighted Priority
V.1	HV-69-1 & SW Classroom RTU's to Central AHU	This ventilation improvement opportunity includes replacing the existing systems serving the southwest classrooms with a new variable air volume system designed to provide required heating, ventilating and cooling control.	$ 784,080.00	4.1
V.2	HV-70-1 & SW Classroom RTU's to Central AHU	This ventilation improvement opportunity includes replacing the existing systems serving the northwest classrooms with a new variable air volume system designed to provide required heating, ventilating and cooling control.	$ 797,040.00	4.1
V.3	AHU-87-1 (1st Floor NE Classrooms) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system AHU-87-1 from 1987 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 39,420.00	3.7
V.4	AHU-87-2 (N Classrooms) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system AHU-87-2 from 1987 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 30,240.00	3.7
V.5	AHU-87-3 (2nd Floor NE Classrooms) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system AHU-87-3 from 1987 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 54,720.00	3.7
V.6	AHU-87-4 (2nd Floor N Classrooms) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system AHU-87-4 from 1987 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 30,240.00	3.7
V.7	AHU-87-5 (South Gym) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system AHU-87-5 from 1987 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 105,120.00	3.7
C.2	Energy Management System - Enhance Scope	In addition to implementing the DDC system improvements as described in C.1a, this facility improvement measure option is aimed at enhancing the digital control systems at the building. Additionally, pneumatic controls in the building would be replaced with new electric & DDC control.	$ 727,000.00	3.6
EXT.10	Skylight	The skylight would be removed, and the vacant space would be filled with roofing material. The interior would have a ceiling material added in the area where the light used to shine into the facility.	$ 10,800.00	3.2
P.1	Domestic Piping Distribution Replacement	The domestic water distribution piping should be planned to be replaced in the future.	$ 733,000.00	1.8
G.1	Track Resurfacing	Replace the existing track surface with a new asphalt surface.	$ 91,440.00	1.4
INT.1	Area C Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2030).	$ 69,480.00	1.2
INT.2	Area D Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2030).	$ 77,040.00	1.2
INT.3	Area E Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2030).	$ 92,880.00	1.2
INT.4	Area F Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2030).	$ 73,080.00	1.2
INT.5	Area G Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2030).	$ 43,920.00	1.2

Wachter Middle School

Code	Item	Description	Current Cost (2024)	Weighted Priority
INT.7	Area J Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2030).	$ 57,240.00	1.2
INT.8	Area K Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2030).	$ 52,560.00	1.2
			$ 3,869,300.00	

Bismarck High School

Code	Item	Description	Current Cost (2024)	Weighted Priority
PROG.3	Remodel: Library into Classrooms, Knaak - Add Stair Between 1st and 2nd (Elevator Access in Hall)	Remodel library into (6) classrooms / flex spaces, provide connection stair in Knaak space.	$ 1,000,800.00	
M.1	Boiler Replacement - Steam to HW	This boiler system would be converted from steam to hot water. Not only is this an energy efficiency gain from not needing to heat water to a higher temperature, but the new boiler systems will have a much higher efficiency overall. The steam to hot water heat exchangers would be removed to reduce the amount of equipment to maintain.	$ 1,296,000.00	4.1
M.4	Cooling Tower Replacement	These cooling towers should be replaced with higher efficiency units.	$ 573,840.00	3.9
V.1	1987 AHU S-1 Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system S-1 from 1987 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 28,080.00	3.8
V.2	1987 AHU S-2 Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system S-2 from 1987 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 28,080.00	3.8
V.3	1987 AHU S-3 Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system S-3 from 1987 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 47,880.00	3.8
V.4	1987 AHU S-4 Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system S-4 from 1987 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 24,480.00	3.8
V.5	1987 AHU S-5 Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system S-5 from 1987 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 34,200.00	3.8
V.6	1987 AHU S-6 Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system S-6 from 1987 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 29,340.00	3.8
V.7	1987 AHU S-7 Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system S-7 from 1987 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 31,320.00	3.8
V.8	1987 AHU S-8 Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system S-8 from 1987 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 31,320.00	3.8
C.1	Energy Management System - Enhance Scope	In addition to implementing the DDC system improvements as described in C.1a, this facility improvement measure option is aimed at enhancing the digital control systems at the building. Additionally, pneumatic controls in the building would be replaced with new electric & DDC control.	$ 338,000.00	3.6
M.2	Hot Water Pump Replacement	The pumps and motors should be replaced with higher efficiency systems.	$ 99,360.00	3.2
M.3	Heat Pump Loop Pump Replacement	The pumps and motors should be replaced with higher efficiency systems.	$ 61,920.00	3.2

Bismarck High School

Code	Item	Description	Current Cost (2024)	Weighted Priority
EXT.2	Roof Replacement (Area F-New Classrooms)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2023).	$ 70,560.00	2.2
EXT.7	Roof Replacement (Area K-Karlgaard)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2023).	$ 180,000.00	2.2
V.10	1998 AHU-2 Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system AHU-2 from 1998 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 97,200.00	1.5
V.11	1998 AHU-3 Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system AHU-3 from 1998 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 34,560.00	1.5
V.12	1998 AHU-4 Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system AHU-4 from 1998 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 79,920.00	1.5
V.13	1998 AHU-5 Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system AHU-5 from 1998 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 31,680.00	1.5
V.14	1998 AHU-6 Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system AHU-6 from 1998 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 28,080.00	1.5
V.9	1998 AHU-1 Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system AHU-1 from 1998 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 97,200.00	1.5
EXT.10	Exterior System Repair Allowance	This is an allowance to replace damaged bricks and repair exterior damage.	$ 44,640.00	1.3
INT.10	Area S Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2018).	$ 25,000.00	1.2
INT.3	Area L Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2018).	$ 90,720.00	1.2
INT.4	Area M Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2018).	$ 25,000.00	1.2
INT.7	Area P Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2018).	$ 58,680.00	1.2
INT.8	Area Q Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2018).	$ 45,720.00	1.2
INT.9	Area R Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2018).	$ 28,980.00	1.2
			$ 4,562,560.00	

Century High School

Code	Item	Description	Current Cost (2024)	Weighted Priority
PROG.1	Expand: Gym Additional 50%, Expand: Weight Room into Weight Room / Fitness Classroom, Remodel: Weight Room into Visitor Locker Rooms, Remodel: Classroom Core into Blackbox (This might not be possible due to existing height restrictions), Remodel: Current Blackbox into Classrooms	Provide addition to gym, provide addition to wrestling room, convert existing weight room into visitor locker rooms, convert existing theatre back-of-house into classrooms, convert existing rooms into blackbox space. Green space renovation.	$ 13,711,852.00	
V.2	1974 AC-3 (Auditorium) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system AC-3 from 1974 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 421,920.00	4.1
V.3	1974 AC-4 (Choir Area) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system AC-4 from 1974 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 39,240.00	4.1
V.4	1974 AC-5 (Commons) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system AC-5 from 1974 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 84,960.00	4.1
V.5	1974 AC-6 (Kitchen) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system AC-6 from 1974 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 27,000.00	4.1
V.6	1974 AC-7&8 (Olson Gymnasium) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system AC-7&8 from 1974 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 207,360.00	4.1
V.7	1974 AC-9 (Media & Central Classrooms) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system AC-9 from 1974 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 2,196,000.00	4.1
V.1	1974 HV-6 (Room M104A) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation system HV-6 from 1974 with a new central air handling unit designed to provide required heating and ventilating control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 36,900.00	3.8
C.2b	Energy Management System - Enhance Scope	In addition to implementing the DDC system improvements as described in C.1a, this facility improvement measure option is aimed at enhancing the digital control systems at the building. Additionally, pneumatic controls in the building would be replaced with new electric & DDC control.	$ 710,000.00	3.6
M.1	Hot Water Pump Replacement	The pumps and motors should be replaced with higher efficiency systems.	$ 113,040.00	3.2
M.2	Heat Pump Loop Pump Replacement	The pumps and motors should be replaced with higher efficiency systems.	$ 74,880.00	2.9
M.3	VAV Box Replacement	The VAV boxes would be replaced with new electronically controlled VAV boxes.	$ 212,400.00	2.9
EXT.2	Roof Replacement (Area A-1998 Classroom Wing)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2028).	$ 354,960.00	1.95
EXT.3	Roof Replacement (Area B-1998 Classroom Wing)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2028).	$ 94,320.00	1.9
EXT.4	Roof Replacement (Area C-1998 Classroom Wing)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2028).	$ 29,160.00	1.9
			$ 18,313,992.00	

South Central High School

Code	Item	Description	Current Cost (2024)	Weighted Priority
PROG.1	Remodel: Front Office Core, Remodel: Vestibule Area for Secure Entry, Add Wall between Gym and Main Entry, Remodel: Convert Corridor Space into Specialist Space / Storage	Provide new interior vestibule for secure entry, remodel offices as needed for secure entry access, provide wall between gym and corridor, remodel new corridor "nook" space for use as small break out space, provide window frames in all glass block locations.	$ 198,640.00	
EXT.6	Soffit Covering	This facility improvement measure would cover these wood soffits to prevent further damage to this system.	$ 22,320.00	4.3
V.1	Ventilation Upgrade - Central Systems	This ventilation improvement opportunity includes replacing all the existing air handling systems with new central air handling systems designed to provide required heating, ventilation, and cooling control. It will provide new supply and return air ductwork as applicable for the new systems. The new systems will be designed to comply with current codes, standards and statutes regarding return/relief air, ventilation rates and air filtration.	$ 1,404,000.00	3.8
LS.1	Fire Alarm System Upgrade	Replace the relevant fire alarm system with a new system that has the capability for addressable inputs and meet all codes and standards.	$ 74,160.00	3.3
M.1	Boiler Replacement - West Wing	This boiler should be replaced with a higher efficiency hot water boiler system with redundancy and improved temperature control.	$ 11,160.00	3
M.2	Boiler Replacement - East Wing	These modular boilers should be replaced with a higher efficiency hot water boiler system with redundancy and improved temperature control.	$ 62,280.00	3
HAZ.1	Asbestos Flooring Tile Abatement	This opportunity includes an allowance for removal of existing tile with ACMs.	$ 83,520.00	2.7
EXT.4	Window Replacement	It is recommended that the older, inefficient window systems be replaced with new energy efficient window systems.	$ 341,280.00	2.6
M.3	Hot Water Pump Replacement	The pumps and motors should be replaced with higher efficiency systems.	$ 17,820.00	2.6
LS.2	Install Sprinklers	This facility improvement opportunity includes installing a sprinkler system throughout the building. This upgrade would require evaluation of the location and capacity of the city water main to provide sufficient volume and pressure for fire sprinkler protection.	$ 105,120.00	2.3
INT.1	Area A Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 1965).	$ 26,280.00	1.8
G.1	Asphalt Replacement	Replace this area of asphalt per the Bismarck Public Schools replacement plan (due for replacement in 2015).	$ 39,060.00	1.5
G.2	Concrete Replacement	It is recommended to repair exterior concrete surfaces, which will help improve safety and minimize moisture intrusion to prevent further damage (due for replacement in 2015).	$ 143,280.00	0.9
EXT.2	Roof Replacement (Area B - Office)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2028).	$ 42,840.00	0.8
EXT.3	Roof Replacement (Area D - Gymnasium)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2026).	$ 68,400.00	0.8
E.2	Electrical Distribution Allowance	This is an allowance to upgrade the electrical distribution system in the applicable facility to meet NEC standards, present loads and anticipated future electrical needs. Electrical distribution system upgrades would include replacement and expansion of electrical circuit wiring, outlets, switches, circuit breakers, distribution panels and sub-panels necessary to support the technologies of 21st century educational programming.	$ 32,040.00	0.5
			$ 2,672,200.00	

Sanford Athletic Complex

Code	Item	Description	Current Cost (2024)	Weighted Priority
PROG.1	Tennis Bathrooms	A restroom/storage structure would be built to the east of the existing walkway near the tennis courts. Water and sewer would have to be connected into the City's utility lines.	$ 89,280.00	

Career Academy

Code	Item	Description	Current Cost (2024)	Weighted Priority
INT.1	Area A Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2030).	$ 16,920.00	1.2
INT.2	Area B Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2030).	$ 50,760.00	1.2
INT.4	Area D Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2030).	$ 73,440.00	1.2
INT.5	Area E Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2030).	$ 17,640.00	1.2
INT.7	Area G Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2030).	$ 116,640.00	1.2
INT.8	Area H Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2030).	$ 41,220.00	1.2
			$ 316,620.00	

Facilities and Transportation

Code	Item	Description	Current Cost (2024)	Weighted Priority
M.2	Unit Heater and Infrared Heater Replacement	Existing unit heaters and infrared heaters would be replaced with new units sized to properly sized for the loads in the space.	$ 68,400.00	3.3
M.1	Boiler Replacement	This boiler should be planned for future replacement with a higher efficiency hot water boiler system with improved temperature control.	$ 12,240.00	2.7
EXT.3	Roof Replacement (Area D - Food Service)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2029).	$ 46,080.00	1.35
EXT.2	Roof Replacement (Area C - Warehouse & Carpenter)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2029).	$ 182,880.00	1.3
G.3	Asphalt Replacement (Area K)	Replace this area of asphalt per the Bismarck Public Schools replacement plan (due for replacement in 2005).	$ 323,280.00	0.9
			$ 632,880.00	

Hughes Educational Facility

Code	Item	Description	Current Cost (2024)	Weighted Priority
PROG.1	Grand Stand Upgrade	The grandstands would be updated with new ADA compliant ramps and handrails. Update and refresh the press box.	$ 362,880.00	
V.1	RTU-1 & 2 (Rooms 300-305) Replacement	This ventilation improvement opportunity includes replacing the existing ventilation systems RTU-1&2 from 2002 with a new central air handling unit designed to provide required heating, ventilating and cooling control. Reuse as much existing supply and return air ductwork as possible. The new air handling unit will be resized based off the needs of the spaces it serves.	$ 53,640.00	3.7
M.1	Boiler Replacement	These Burnham boilers should be replaced with a higher efficiency hot water boiler system with redundancy and improved temperature control.	$ 220,320.00	3
M.3	Cooling Tower Replacement	These cooling towers should be replaced with higher efficiency units.	$ 73,440.00	3
M.2	Heat Pump Replacement	Because of risk of failure a replacement plan should be put in place for the heat pumps.	$ 1,000,000.00	2.9
HAZ.1	Asbestos Abatement - Gymnasium Ceiling Tile	This opportunity includes an allowance for removal of existing ceiling tile with ACMs.	$ 70,920.00	2.7
HAZ.2	Asbestos Abatement - Cafeteria Flooring/Ceiling	This opportunity includes an allowance for removal of existing ceiling tile with ACMs.	$ 51,480.00	2.7
INT.20	Area V Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 1983).	$ 6,480.00	1.8
INT.21	Area W Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 1983).	$ 19,800.00	1.8
INT.22	Area X Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 1983).	$ 6,984.00	1.8
INT.23	Gymnasium Ceiling Replacement	This facility improvement opportunity includes upgrading the ceiling system in the gymnasium with a new ceiling system to brighten and refresh each space.	$ 30,600.00	1.8
EXT.4	Roof Replacement (Area E - North)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2027).	$ 236,880.00	1.6
INT.10	Area L Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2020).	$ 18,360.00	1.5
INT.11	Area M Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2020).	$ 24,660.00	1.5
INT.12	Area N Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2020).	$ 19,080.00	1.5
INT.13	Area O Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2020).	$ 17,280.00	1.5
INT.14	Area P Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2020).	$ 16,020.00	1.5
INT.15	Area Q Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2020).	$ 23,760.00	1.5
INT.16	Area R Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2020).	$ 31,680.00	1.5
INT.17	Area S Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2020).	$ 12,420.00	1.5
INT.18	Area T Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2020).	$ 24,840.00	1.5
INT.19	Area U Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2020).	$ 3,924.00	1.5
INT.8	Area J Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2020).	$ 13,500.00	1.5

Hughes Educational Facility

Code	Item	Description	Current Cost (2024)	Weighted Priority
INT.9	Area K Flooring Replacement	Replace this area of flooring per the Bismarck Public Schools flooring replacement plan (due for replacement in 2020).	$ 18,720.00	1.5
G.1	Asphalt Replacement (Area A)	Replace this area of asphalt per the Bismarck Public Schools replacement plan (due for replacement in 2015).	$ 288,000.00	1.4
G.2	Asphalt Replacement (Area B)	Replace this area of asphalt per the Bismarck Public Schools replacement plan (due for replacement in 2015).	$ 67,680.00	1.4
EXT.2	Roof Replacement (Area C -Administration)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2029).	$ 138,240.00	1.3
G.3	Crushed Concrete Replacement (Area C)	Replace this area of crushed concrete per the Bismarck Public Schools replacement plan (due for replacement in 2015).	$ 87,120.00	0.9
EXT.3	Roof Replacement (Area D - Breezeway)	Replace this area of roofing per the Bismarck Public Schools roofing replacement plan (due for replacement in 2026).	$ 16,380.00	0.8
			$ 2,955,088.00	