
**HORSEHEADS CENTRAL SCHOOL
DISTRICT**

2015 BUILDING CONDITION SURVEY



HUNT 1923-019

FEBRUARY 1, 2016



ENGINEERS, ARCHITECTS & SURVEYORS
Airport Corporate Park / 100 Hunt Center
Horseheads, NY 14845
(607) 358-1000

**HORSEHEADS CENTRAL SCHOOL DISTRICT
2015 BUILDING CONDITION SURVEY**

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BIG FLATS ELEMENTARY

RIDGE ROAD ELEMENTARY

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MAINTENANCE BUILDING

BUS GARAGE

FIELD HOUSE

SENIOR HIGH SCHOOL NORTH TAB 1

Systems Descriptions:

Mechanical
Electrical
Technology
Theatrical

Recommendations:

Site
Architectural
Mechanical
Electrical
Technology
Food Service
Theatrical

SED Building Condition Survey

Key Plan

SENIOR HIGH SCHOOL SOUTH TAB 2

Systems Descriptions:

Mechanical
Electrical
Technology

Recommendations:

Site
Architectural
Mechanical
Electrical
Technology

SED Building Condition Survey

Key Plans

CENTER STREET TAB 3

Systems Descriptions:

Mechanical
Electrical
Technology
Theatrical

Recommendations:

Site
Architectural
Mechanical
Electrical
Technology
Food Service
Theatrical

SED Building Condition Survey

Key Plans

BIG FLATS TAB 4

Systems Descriptions:

- Site
- Mechanical
- Electrical
- Technology
- Theatrical

Recommendations:

- Site
- Architectural
- Mechanical
- Electrical
- Technology
- Food Service
- Theatrical

SED Building Condition Survey

Key Plans

RIDGE ROAD TAB 5

Systems Descriptions:

- Site
- Mechanical
- Electrical
- Technology
- Theatrical

Recommendations:

- Site
- Architectural
- Mechanical
- Electrical
- Technology
- Food Service
- Theatrical

SED Building Condition Survey

Key Plans

GARDNER ROAD TAB 6

Systems Descriptions:

- Site
- Mechanical
- Electrical
- Technology
- Theatrical

Recommendations:

- Site
- Architectural
- Mechanical
- Electrical
- Technology
- Food Service
- Theatrical

SED Building Condition Survey

Key Plans

INTERMEDIATE/MIDDLE SCHOOL..... TAB 7

Systems Descriptions:

- Site
- Mechanical
- Electrical
- Technology
- Theatrical

Recommendations:

- Site
- Architectural
- Mechanical
- Electrical
- Technology
- Food Service
- Theatrical

SED Building Condition Survey

Key Plans

MAINTENANCE BUILDING TAB 8

Systems Descriptions:

Site
Mechanical
Electrical
Technology

Recommendations:

Site
Architectural
Mechanical
Electrical
Technology

Key Plan

BUS GARAGE TAB 9

Systems Descriptions:

Site
Mechanical
Electrical
Technology

Recommendations:

Site
Architectural
Mechanical
Electrical
Technology

Key Plan

FIELD HOUSE TAB 10

Systems Descriptions:

Site
Mechanical
Electrical
Technology

Recommendations:

Site
Architectural
Mechanical
Electrical
Technology

Key Plan



ENGINEERS ARCHITECTS LAND SURVEYORS, PC
 Airport Corporate Park, 100 Hunt Center
 Horseheads, NY 14845-1019
 P: 607-358-1000
 F: 607-358-1800

Project Summary by Building

Horseheads CSD

07-09-01-06

	FACILITY NAME	PRIORITY 1	PRIORITY 2	PRIORITY 3	YR 1 TOTAL	10% design contingency	5% inflation per Year	10% constr contingency	CONST COST	22% incid cost	YEAR 1 PROJ COST
Year 1											
07-09-01-06-0-001	Senior High School South	\$5,678,000	\$3,093,050	\$905,300	\$9,676,350	\$967,635	\$532,199	\$1,117,618	\$12,293,803	\$2,458,761	\$14,752,563
07-09-01-06-0-009	Senior High School North	\$7,924,530	\$7,486,060	\$5,876,600	\$21,287,190	\$2,128,719	\$1,170,795	\$2,458,670	\$27,045,375	\$5,409,075	\$32,454,450
07-09-01-06-0-003	Center Street	\$4,252,200	\$4,663,100	\$156,225	\$9,071,525	\$907,153	\$498,934	\$1,047,761	\$11,525,373	\$2,305,075	\$13,830,447
07-09-01-06-0-006	Big Flats	\$4,255,850	\$2,627,225	\$1,380,300	\$8,263,375	\$826,338	\$454,486	\$954,420	\$10,498,618	\$2,099,724	\$12,598,342
07-09-01-06-0-008	Ridge Road	\$4,012,600	\$2,854,550	\$188,550	\$7,055,700	\$705,570	\$388,064	\$814,933	\$8,964,267	\$1,792,853	\$10,757,120
07-09-01-06-0-012	Gardner Road	\$4,695,800	\$3,583,285	\$228,650	\$8,507,735	\$850,774	\$467,925	\$982,643	\$10,809,077	\$2,161,815	\$12,970,893
07-09-01-06-0-013	Intermediate/Middle School	\$4,968,890	\$9,018,600	\$20,303,850	\$34,291,340	\$3,429,134	\$1,886,024	\$3,960,650	\$43,567,147	\$8,713,429	\$52,280,577
07-09-01-06-3-007	Maintenance Building	\$620,000	\$0	\$2,330,000	\$2,950,000	\$295,000	\$162,250	\$340,725	\$3,747,975	\$749,595	\$4,497,570
07-09-01-06-5-005	Bus Garage	\$2,114,500	\$356,850	\$476,100	\$2,947,450	\$294,745	\$162,110	\$340,430	\$3,744,735	\$748,947	\$4,493,682
07-09-01-06-7-021	Field House	\$423,500	\$334,900	\$4,750	\$763,150	\$76,315	\$41,973	\$88,144	\$969,582	\$193,916	\$1,163,498
	TOTAL	\$38,945,870	\$34,017,620	\$31,850,325	\$104,813,815	\$10,481,382	\$5,764,760	\$12,105,996	\$133,165,952	\$26,633,190	\$159,799,142

DISTRICT WIDE TOTAL	\$38,945,870	\$34,017,620	\$31,850,325	\$104,813,815
10% design contingency	\$3,894,587	\$3,401,762	\$3,185,033	\$10,481,382
5% inflation / Year	\$2,142,023	\$1,870,969	\$1,751,768	\$5,764,760
10% construction contingency	\$4,498,248	\$3,929,035	\$3,678,713	\$12,105,996
CONSTRUCTION COST	\$49,480,728	\$43,219,386	\$40,465,838	\$133,165,952

22% incidental cost	\$9,896,146	\$8,643,877	\$8,093,168	\$26,633,190
YEAR 1 PROJECT COST	\$59,376,873	\$51,863,263	\$48,559,005	\$159,799,142



ENGINEERS ARCHITECTS LAND SURVEYORS, PC
 Airport Corporate Park, 100 Hunt Center
 Horseheads, NY 14845-1019
 P: 607-358-1000
 F: 607-358-1800

Summary of Estimated Expenses

Horseheads CSD

SED NO. 07-09-01-06

		Year 1 Total:	\$71,950	\$38,945,870	\$34,017,620	\$31,850,325
Year 1 Site	Item No.	Description	Maint.	Priority 1	Priority 2	Priority 3
	HN-L1	Property Line Fencing				\$105,000
	HN-L2	Asphalt Parking		\$670,000		
	HN-L3	Upgrade Loading Dock				\$32,000
	HN-L4	Asphalt Parking - Eliminate Obstacles		\$528,000		
	HN-L5	Asphalt Pavement at North HS/Elem		\$491,000		
	HN-L6	Add Handrails to Stair		\$4,000		
	HN-L7	Upgrade Lighting			\$100,000	
	HN-L8	Remove Damaged Vegetation	\$1,500			
	HN-L9	Asphalt Parking at Student Lot		\$375,000		
	HN-L10	Update Entrance				\$35,000
	HN-L11	Property Line Fencing				\$0
	HN-L12	New/Relocated Stadium				\$5,000,000
	HN-L13	Baseball Field				\$450,000
	HN-L15	Redundant Fencing				\$0
	CS-L1	Replace Playground Equipment		\$40,000		
	CS-L2	Replace Curb		\$6,000		
	CS-L3	Dumpster Enclosure				\$35,000
	CS-L4	Concrete Walks		\$25,000		
	CS-L5	Playground A		\$130,000		
	CS-L6	Playground B		\$150,000		
	CS-L7	ADA Signage		\$2,500		
	BF-L1	Entrance/Exit Drive and Bus Loop		\$246,000		
	BF-L2	Main Parking Lots		\$540,000		
	BF-L3	Concrete Walks		\$25,000		
	BF-L4	Hard Play Areas and Basketball Court			\$185,000	
	BF-L5	Replace Basketball Hoops			\$6,000	
	BF-L6	Playgrounds		\$320,000		
	RR-L1	Bus Loop		\$92,000		
	RR-L2	East Parking Lots and Bus Drop off		\$700,000		
	RR-L3	Student Hard Play Area			\$45,000	
	RR-L4	Electrical Service				\$0
	RR-L5	Remove & Repair Asphalt at Bus Loop & Entrance Drive		\$150,000		
	RR-L6	Backstop				\$30,000
	RR-L7	Playgropund surfacing			\$60,000	
	RR-L8	Sidewalk Repair		\$100,000		
	GR-L1	Asphalt Pavement		\$998,000		
	GR-L2	Dumpster Enclosures/Pad				\$40,000
	GR-L3	Fencing				\$26,000
	GR-L4	South Asphalt Play Area			\$0	
	GR-L5	Playground and Hard Play Area			\$250,000	
	GR-L6	Lighting			\$40,000	
	MS-L1	Maintenance Entrance		\$73,000		
	MS-L2	Pedestrian Access		\$10,000		
	MS-L3	HC Signage		\$5,500		
	MS-L4	South Parking Lot and Student Drop off		\$550,000		
	MS-L5	Loading Docks				\$200,000
	MS-L6	Student Drop Off		\$150,000		
	MS-L7	North Parking Lots		\$925,000		
	MS-L8	Lighting			\$50,000	
	MS-L9	Catch Basins		\$10,000		
	MS-L10	North West Parking Lot		\$0		
	MS-L11	Playgrounds			\$300,000	
	MS-L12	Playground Swings			\$15,500	

Architectural

MS-L13	Swing Use Zone			\$1,500	
MS-L14	Playground Signage			\$500	
MS-L15	Bus Loop		\$500,000		
MS-L16	Concrete Walks			\$35,000	
MS-L17	Walking Trail				\$25,000
MS-L18	Expand Athletic Fields to South				\$200,000
MS-L19	Replace ADA Ramp		\$35,000		
MB-L1	Asphalt Parking		\$620,000		
MB-L2	Temp. Storage Buildings				\$10,000
BG-L1	Entrance Drive		\$325,000		
BG-L2	Asphalt Bus Parking West		\$775,000		
BG-L3	Asphalt Bus Parking East		\$900,000		
BG-L4	Lighting			\$125,000	
BG-L5	Electrical Service				\$0
BG-L6	Utility Improvements				\$0
FH-L1	Replace Fieldhouse Parking Lot		\$360,000		
HS-A1	Replace Doors that are Not Fire Rated and/or Handicapped Accessible			\$395,000	
HS-A2	Replace Wire Glass in Door			\$400	
HS-A3	Non-Rated Corridor Walls		\$319,200		
HS-A4	Replace Non-Impact Resistant Glass		\$5,600		
HS-A5	Handrails and Guardrails		\$25,000		
HS-A6	Boiler Room Vestibule		\$30,000		
HS-A7	Smoke Stop Curtain at Elevator		\$10,000		
HS-A8	Investigate U-Shaped Roof and Floor Joists			\$7,500	
HS-A9	Update Toilet Room to be Handicap Accessible			\$750,000	
HS-A10	Update Locker Rooms to be Handicap Accessible			\$450,000	
HS-A11	Update Drinking Fountains to be Handicap Accessible			\$24,000	
HS-A12	Replace Casework			\$522,000	
HS-A13	Renovate Gym			\$184,000	
HS-A14	LGI		\$60,000		
HS-A15	Technology 150		\$48,000		
HS-A16	Cracked Terrazzo	\$900			
HS-A17	Replace Acoustic Ceiling Tile			\$248,000	
HS-A18	Replace Carpet			\$60,000	
HS-A19	Replace VCT			\$66,000	
HS-A20	Refinish Wood Floor				\$60,000
HS-A21	Replace Aged Blackboards / Tack boards		\$157,500		
HS-A22	Replace Aged Window Treatments				\$38,400
HS-A23	Abate 9"x9" Vinyl Asbestos Floor Tile		\$685,000		
HS-A24	Replace Aged Insulated Metal Panel Wall System		\$630,000		
HS-A25	Stair Floor Finish				\$3,000
HS-A26	Computer Desks		\$154,000		
HS-A27	Lack of Control Joints				\$5,000
HS-A28	Expansion Joint in Floor				\$5,000
HS-A29	Nurse and Work Room Renovations		\$91,000		
HS-A30	English Classrooms		\$650,000		
HS-A31	Provide Cages for Skylights	\$3,000			
HS-A32	Replace Overhead Door			\$2,500	
HS-A33	Repair Chipped Masonry	\$1,500			
HS-A34	Replace Deteriorated Exterior Doors		\$12,000		
HS-A35	Update Exterior Railings to be ADA Compliant			\$7,500	
HS-A36	Replace Main Entrance Stairs		\$5,000		
HS-A37	Update the Loading Dock to be Secure			\$5,500	
HS-A38	Replace Exterior Window Systems			\$54,000	
HS-A39	Replace Overhead Doors at Receiving Room				\$6,000
HS-A40	Repair Wall System			\$5,250	
HS-A41	Replace Window Caulking	\$750			
HS-A42	Replace Fascia				\$2,500
HS-A43	Roof Replacement		\$781,200		
HN-A1	Replace Doors that are Not Fire Rated and/or Handicapped Accessible			\$391,500	
HN-A2	Replace Wire and Non Rated Glass in Door and Window Assemblies				\$5,000
HN-A3	Non-Rated Corridor Walls		\$240,000		
HN-A4	Replace Non-Impact Resistant Glass		\$20,000		
HN-A5	Biology 101		\$8,000		
HN-A6	Handrails and Guardrails		\$20,000		
HN-A7	Boiler Room Vestibule		\$20,000		
HN-A8	Smoke Stop Curtain at Elevator		\$10,000		
HN-A9	Corridor Coiling Doors				\$4,500
HN-A10	Fire Rated Stairs		\$15,000		
HN-A11	Investigate U-Shaped Roof Joists				\$7,500

HN-A12	Crack in Concrete Floor System			\$2,000	
HN-A13	Auditorium Catwalk Fall Protection		\$3,000		
HN-A14	Update Toilet Rooms to be Handicap Accessible			\$750,000	
HN-A15	Update Locker Rooms to be Handicap Accessible			\$537,500	
HN-A16	Update Drinking Fountains to be Handicap Accessible			\$8,000	
HN-A17	Replace Casework		\$360,000		
HN-A18	Renovate Gym			\$160,000	
HN-A19	Renovate Pool			\$975,000	
HN-A20	Expansion Joints				\$60,000
HN-A21	Stair Treads			\$200,000	
HN-A22	Door Infill's	\$1,500			
HN-A23	Replace Acoustic Ceiling Tile			\$366,000	
HN-A24	Replace Carpet			\$60,000	
HN-A25	Floor Shifting		\$120,000		
HN-A26	Replace Corridor Wood Wall Panels			\$30,000	
HN-A27	Replace VCT		\$277,650		
HN-A28	Music Rooms			\$24,000	
HN-A29	Replace Library Bookshelves			\$288,000	
HN-A30	Replace Aged Blackboards / Tack boards		\$56,000		
HN-A31	Replace Aged Window Treatments			\$70,560	
HN-A32	Abate 9"x9" Vinyl Asbestos Floor Tile		\$32,000		
HN-A33	Receiving Room			\$4,000	
HN-A34	Stair Floor Finish				\$12,000
HN-A35	Computer Desks		\$49,000		
HN-A36	UV Shelving			\$320,000	
HN-A37	Minor Masonry Wall Cracking	\$1,000			
HN-A38	Lack of Control Joints				\$5,000
HN-A39	Access Ladder Anchor	\$300			
HN-A40	Metal Deck Corrosion	\$0			
HN-A41	Nurses Office			\$58,500	
HN-A42	Science Classrooms		\$266,500		
HN-A43	Home & Careers		\$139,750		
HN-A44	Cafeteria and Kitchen			\$1,477,500	
HN-A45	Replace Roof		\$356,280		
HN-A46	Replace/Provide Roof Ladders/Stairs		\$8,000		
HN-A47	Provide Cages for Skylights				\$6,000
HN-A48	Replace Louvers				\$3,600
HN-A49	Replace Deteriorated Exterior Doors		\$44,000		
HN-A50	Update Exterior Railings to be ADA Compliant		\$4,000		
HN-A51	Caulk and Paint Flashing				\$12,000
HN-A52	Repair Main Entrance Stairs		\$1,500		
HN-A53	Replace Stairs at Library			\$5,000	
HN-A54	Replace Exterior Doors/Frames		\$8,000		
HN-A55	Stepped Cracking			\$2,400	
HN-A56	Replace Expansion Joints			\$3,600	
HN-A57	Steel Column Base Corrosion			\$3,000	
HN-A58	Trim Vegetation Around the Building	\$800			
HN-A59	Repair Stairs and Repaint Handrails			\$3,000	
HN-A60	Secure the Loading Dock Area			\$12,000	
HN-A61	Recaulk Metal Flashing and Window Sills			\$8,000	
HN-A62	Chipped Concrete	\$1,200			
HN-A63	Brick Replacement	\$3,000			
HN-A64	Repair Corroded Metal Window System		\$15,000		
HN-A65	Replace Fascia and Soffit			\$1,500	
HN-A66	Replace Overhead Doors			\$8,000	
HN-A67	Remove/Replace Metal Mesh Tube	\$400			
CS-A1	Replace Doors that are Not Fire Rated and/or Handicapped Accessible			\$183,000	
CS-A2	Replace Wire Glass in Library Window Assembly			\$2,500	
CS-A3	Top Out Fire Rated Partitions			\$2,000	
CS-A4	Replace Non-Impact Resistant Glass		\$4,000		
CS-A5	Enclose Existing Stairs with Fire Rated Partitions and Doors		\$20,000		
CS-A6	Infill Door under Stair Landing	\$2,000			
CS-A7	Provide Handrails at Existing Platform Stairs	\$800			
CS-A8	Boiler Room Vestibule		\$10,000		
CS-A9	Corridor Coiling Fire Door			\$500	
CS-A10	Storage Under Stage				\$5,000
CS-A11	Smoke Stop Curtain at Elevator		\$10,000		
CS-A12	Update Coiling Doors at Dishwashing Station			\$3,500	
CS-A13	Replace Door Knobs With Handicapped Accessible Levers		\$1,200		
CS-A14	Update Toilet Room to be Handicap Accessible			\$240,000	
CS-A15	Update Drinking Fountains to be Handicap Accessible			\$6,000	

CS-A16	Replace Casework		\$562,500		
CS-A17	Renovate Gym			\$90,000	
CS-A18	Cafeteria, Kitchen & Receiving			\$429,000	
CS-A19	Platform Stage Floor Finish				\$7,500
CS-A20	Main Office and Nurse			\$251,500	
CS-A21	Replace Acoustic Ceiling Tile			\$298,675	
CS-A22	Replace Asbestos Plaster Ceiling		\$30,000		
CS-A23	Replace Asbestos Plaster Wall Finish			\$1,270,000	
CS-A24	Replace Kitchen Lockers			\$1,800	
CS-A25	Replace Aged Blackboards / Tack boards		\$33,600		
CS-A26	Replace Aged Window Treatments			\$38,400	
CS-A27	Library			\$764,875	
CS-A28	Abate 9"x9" Vinyl Asbestos Floor Tile		\$22,000		
CS-A29	Replace Aged Unit Ventilator Shelving			\$216,000	
CS-A30	Cracked Terrazzo			\$1,200	
CS-A31	Inst. Music 119	\$500			
CS-A32	Minor Masonry Wall Cracking	\$1,000			
CS-A33	Lack of Control Joints				\$5,000
CS-A34	Control Joint Cracking				\$5,000
CS-A35	Masonry Cracking Above Opening		\$0		
CS-A36	Replace Roof		\$814,500		
CS-A37	Re-caulk Window Sills			\$1,500	
CS-A38	Replace Louvers				\$10,500
CS-A39	Replace Concrete Pads and Re-Caulk				\$2,500
CS-A40	Replace/Add Roof Ladders		\$5,500		
CS-A41	Replace Deteriorated Exterior Doors		\$12,000		
CS-A42	Repair Exterior Expansion/Control Joints			\$4,200	
CS-A43	Replace Concrete Chimney Cap		\$1,000		
CS-A44	Provide Walkway Pads		\$2,500		
CS-A45	Replace Exterior Window Systems		\$80,000		
CS-A46	Replace Overhead Doors at Storage Room			\$6,000	
CS-A47	Paint Exterior Railings	\$1,500			
CS-A48	Spalling Concrete	\$2,500			
BF-A1	Replace Doors that are Not Fire Rated and/or Handicapped Accessible			\$180,000	
BF-A2	Replace Non-Impact Resistant Glass		\$10,000		
BF-A3	Provide Handrails at Existing Platform Stairs		\$600		
BF-A4	Boiler Room Vestibule			\$10,000	
BF-A5	Storage Under Stage			\$5,000	
BF-A6	Update Coiling Doors at Dishwashing Station			\$3,500	
BF-A7	Replace Metal Ladder from Stage to Mechanical Room				\$6,000
BF-A8	U-Shaped Roof Joists	\$0			
BF-A9	Replace Door Knobs With Handicapped Accessible Levers		\$300		
BF-A10	Corridor 020 Ramp				\$15,000
BF-A11	Update Toilet Room to be Handicap Accessible			\$300,000	
BF-A12	Update Drinking Fountains to be Handicap Accessible			\$10,000	
BF-A13	Replace Casework		\$301,500		
BF-A14	Renovate Gym			\$80,000	
BF-A15	Renovate Library			\$80,000	
BF-A16	Renovate Cafeteria			\$30,000	
BF-A17	Renovate Kitchen			\$120,000	
BF-A18	Stage			\$20,000	
BF-A19	Replace Acoustic Ceiling Tile			\$255,125	
BF-A20	Replace Asbestos Plaster Ceiling/Soffit and Wall		\$256,450		
BF-A21	Replace Lockers				\$32,000
BF-A22	Replace Aged Blackboards / Tackboards		\$82,600		
BF-A23	Replace Aged Window Treatments			\$39,360	
BF-A24	Abate 9"x9" Vinyl Asbestos Floor Tile		\$530,000		
BF-A25	Replace Aged Unit Ventilator Shelving			\$340,000	
BF-A26	Replace Aged Computer Desks		\$35,000		
BF-A27	Replace Worn Floor Finishes			\$26,220	
BF-A28	Vestibule Creation			\$24,000	
BF-A29	Masonry Cracking in Auditoria			\$7,500	
BF-A30	Minor Masonry Wall Cracking				\$2,000
BF-A31	Existing Expansion Joints				\$5,000
BF-A32	Pre-K Addition				\$1,006,000
BF-A33	Tech Closet				\$22,750
BF-A34	Kiln				\$5,000
BF-A35	Pre-K Classrooms				\$162,500
BF-A36	ASD Classroom				\$52,000
BF-A37	Replace Roof System		\$863,700		
BF-A38	Provide Ladders/Stairs to Access Roof Heights		\$5,500		

BF-A39	Replace Deteriorated Exterior Doors		\$5,000		
BF-A40	Update Exterior Railings to be ADA Compliant		\$10,000		
BF-A41	Repair Exterior Expansion Joint			\$1,000	
BF-A42	Masonry Re-Pointing				\$2,500
BF-A43	Replace Exterior Window Systems			\$10,240	
BF-A44	Spalling Conrete			\$4,480	
BF-A45	Patch Stairs and Repaint Handrails			\$1,000	
BF-A46	Replace Loading Dock				\$5,000
BF-A47	Paint and Repair Canopys			\$1,500	
BF-A48	Steel Column Base Corrosion			\$2,500	
RR-A1	Replace Doors that are Not Fire Rated and/or Handicapped Accessible			\$204,000	
RR-A2	Replace Wire Glass in Library Window Assembly		\$2,500		
RR-A3	Replace Non-Impact Resistant Glass		\$4,000		
RR-A4	Provide Handrails at Existing Platform Stairs			\$600	
RR-A5	Boiler Room Vestibule			\$10,000	
RR-A6	Storage Under Stage				\$5,000
RR-A7	Update Coiling Doors at Dishwashing Station			\$3,500	
RR-A8	Replace Metal Ladder from Stage to Mechanical Room				\$6,000
RR-A9	Investigate Deteriorated U-Shaped Roof Joists		\$4,000		
RR-A10	Load Rating for Wood Framed Storage	\$2,000			
RR-A11	Replace Door Knobs With Handicapped Accessible Levers		\$7,200		
RR-A12	Update Toilet Room to be Handicap Accessible			\$225,000	
RR-A13	Update Drinking Fountains to be Handicap Accessible			\$10,000	
RR-A14	Replace Casework		\$225,000		
RR-A15	Renovate Gym			\$23,000	
RR-A16	Renovate Cafeteria			\$30,000	
RR-A17	Platform Stage Floor Finish			\$7,000	
RR-A18	Replace Acoustic Ceiling Tile			\$236,000	
RR-A19	Replace Asbestos Plaster Ceiling/Soffit			\$75,000	
RR-A20	Replace Lockers				\$48,000
RR-A21	Replace Aged Blackboards / Tack boards		\$63,000		
RR-A22	Replace Aged Window Treatments			\$26,000	
RR-A23	Abate 9"x9" Vinyl Asbestos Floor Tile		\$470,000		
RR-A24	Nurse and Social Worker Suite			\$68,250	
RR-A25	Classroom Addition			\$600,000	
RR-A26	Replace Aged Unit Ventilator Shelving			\$260,000	
RR-A27	Replace Aged Computer Desks		\$52,500		
RR-A28	Replace Floor Access Panel to Crawl Space			\$2,000	
RR-A29	Replace Worn Floor Finishes			\$17,000	
RR-A30	Horizontal Masonry Wall Cracking			\$1,000	
RR-A31	Lack of Control Joints			\$7,500	
RR-A32	Control Joint Cracking			\$6,000	
RR-A33	Concrete Pitting and Spalling				\$2,000
RR-A34	Repaint Roof Ladders			\$1,600	
RR-A35	Roof Replacement		\$349,200		
RR-A36	Replace Deteriorated Exterior Doors			\$40,000	
RR-A37	Trim Vegetation Around the Building	\$800			
RR-A38	Masonry Re-Pointing			\$1,000	
RR-A39	Replace Roof Top Unit Supports			\$600	
RR-A40	Restore Chimney			\$3,000	
RR-A41	Replace Louvers			\$600	
RR-A42	Replace Plastic Flashing			\$6,000	
RR-A43	Spalling Concrete at Exterior Slab				\$3,500
RR-A44	Replace Caulk Joints				\$4,000
RR-A45	Repair Existing Control Joints				\$1,200
RR-A46	Update and Repair the Loading Dock				\$20,000
RR-A47	Paint Corroded Structure				\$2,000
RR-A48	Replace Exterior Door/Frame			\$3,000	
RR-A49	Replace Brick				\$10,000
RR-A50	Replace Exit by Classrooms 108 and 109			\$3,500	
RR-A51	Replace Metal Panel at Main Entrance				\$600
RR-A52	Repaint Exterior Ceiling Outside the Gymnasium				\$2,000
RR-A53	Provide Paint for Flashing			\$4,000	
RR-A54	Restore Precast Panels and Lintels				\$5,000
RR-A55	Repair Exit Stairs and Ramp			\$16,000	
RR-A56	Steel Column Base Corrosion				\$1,500
GR-A1	Replace Doors that are Not Fire Rated and/or Handicapped Accessible			\$168,000	
GR-A2	Replace Wire Glass in Media Center Window Assembly				\$2,500
GR-A3	Replace Non-Impact Resistant Glass		\$10,000		
GR-A4	Provide Handrails at Existing Platform Stairs			\$600	
GR-A5	Corridor Walls			\$45,000	

GR-A6	Storage Under Stage				\$5,000
GR-A7	Investigate U-Shaped Roof Joists			\$5,000	
GR-A8	Second Means of Egress	\$15,000			
GR-A9	Update Coiling Door at Dishwashing Station			\$3,500	
GR-A10	Update Coiling Door in Gymnasium			\$6,000	
GR-A11	Update Toilet Room to be Handicap Accessible			\$270,000	
GR-A12	Update Drinking Fountains to be Handicap Accessible			\$4,000	
GR-A13	Existing Corridors			\$60,000	
GR-A14	Replace Casework	\$751,500			
GR-A15	Provide Vestibules	\$40,000			
GR-A16	Renovate Gym			\$61,500	
GR-A17	Platform Stage Floor Finish			\$7,000	
GR-A18	Stage Proscenium			\$16,000	
GR-A19	Replace Acoustic Ceiling Tile			\$267,475	
GR-A20	Library			\$275,000	
GR-A21	Gang Toilet Rooms			\$281,750	
GR-A22	Health Office			\$60,000	
GR-A23	Corridor Cubbies				\$76,800
GR-A24	Replace Aged Blackboards / Tack boards	\$86,800			
GR-A25	Replace Aged Window Treatments			\$41,760	
GR-A26	Abate 9"x9" Vinyl Asbestos Floor Tile	\$591,500			
GR-A27	Replace Aged Unit Ventilator Shelving			\$324,000	
GR-A28	Replace Aged Computer Desks	\$35,000			
GR-A29	Replace Worn Floor Finishes			\$28,000	
GR-A30	Minor Masonry Wall Cracking			\$1,500	
GR-A31	Horizontal Masonry Wall Cracking				\$1,000
GR-A32	Exterior Masonry Wall Cracking			\$2,000	
GR-A33	Replace Supports on Roof Top Unit	\$1,200			
GR-A34	Replace Roof Access Door and Frame			\$3,000	
GR-A35	Replace Exterior Doors	\$12,000			
GR-A36	Recaulk and Repaint Exterior Steel Columns			\$4,000	
GR-A37	Replace Deteriorated Exterior Doors	\$56,000			
GR-A38	Roof Replacement	\$1,090,800			
GR-A39	Repair Exterior Caulk Joints and Railing			\$2,000	
GR-A40	Repair Chipped Concrete			\$800	
GR-A41	Masonry Re-Pointing			\$600	
GR-A42	Vertical Masonry Cracking			\$6,000	
GR-A43	Stepped Masonry Cracking			\$8,000	
GR-A44	Water Damage to Exterior			\$4,000	
GR-A45	Spalling Concrete at Exterior Corners			\$4,000	
GR-A46	Replace Metal Door			\$3,000	
GR-A47	Steel Canopy Corrosion			\$6,000	
GR-A48	Canopy Column Base Corrosion			\$4,000	
GR-A49	Replace Exterior Brick Control Joints			\$1,200	
GR-A50	Check Tops of All Columns for Insects			\$2,000	
GR-A51	Repair Damaged Masonry			\$800	
MS-A1	Replace Doors that are Not Fire Rated and/or Handicapped Accessible			\$644,000	
MS-A2	Replace Wire Glass in Door and Window Assembly				\$9,000
MS-A3	Fire Rated Stair Partitions	\$30,000			
MS-A4	Replace Non-Impact Resistant Glass	\$40,000			
MS-A5	Boiler Room Vestibule			\$10,000	
MS-A6	Investigate U-Shaped Roof Joists			\$7,500	
MS-A7	Library Casework			\$200,000	
MS-A8	Smoke Stop Curtain at Elevator	\$20,000			
MS-A9	Concession Stand Coiling Door				\$4,000
MS-A10	Concrete Slab Investigation			\$6,000	
MS-A11	Update Toilet Room to be Handicap Accessible			\$510,000	
MS-A12	Update Gang Toilet Rooms			\$120,000	
MS-A13	Update Locker Rooms			\$360,000	
MS-A14	Update Drinking Fountains to be Handicap Accessible			\$22,000	
MS-A15	Update Handrails to be Handicap Accessible			\$10,000	
MS-A16	Ramp to Technology Rooms			\$20,000	
MS-A17	Replace Casework			\$639,000	
MS-A18	Gym			\$38,500	
MS-A19	Cafeteria			\$1,055,900	
MS-A20	Replace Acoustic Ceiling Tile			\$812,000	
MS-A21	Replace Lockers			\$230,000	
MS-A22	Replace Aged Blackboards / Tackboards	\$168,000			
MS-A23	Replace Aged Window Treatments			\$100,000	
MS-A24	Cracked Terrazzo				\$2,400
MS-A25	Replace Aged Unit Ventilator Shelving			\$640,000	

MS-A26	Testing Space				\$500,000
MS-A27	Gathering Space				\$500,000
MS-A28	Library				\$578,500
MS-A29	Field House			\$425,000	
MS-A30	Main Office and Nurse Suite			\$55,250	
MS-A31	Metal Deck Corrosion			\$0	
MS-A32	Moisture Penetration into Crawl Space				\$2,000
MS-A33	Pool Addition				\$9,500,000
MS-A34	Auditorium Addition				\$8,500,000
MS-A35	Roof Replacement		\$500,940		
MS-A36	Provide Snow Guards on Field House Addition				\$3,000
MS-A37	Repoint Chimney Mortar Joints			\$1,000	
MS-A38	Golf Inst. Turf				\$40,000
MS-A39	Replace Deteriorated Exterior Doors		\$18,000		
MS-A40	Provide Ladders to Higher Roofs		\$3,000		
MS-A41	Provide Cage/Guardrail to Existing Ladder/Hatch				\$1,500
MS-A42	Drain and Fix Entrance Canopy		\$1,200		
MS-A43	Caulk Top of Metal Roof Finishing			\$8,000	
MS-A44	Repaint Corroded Canopy Supports			\$20,000	
MS-A45	Replace Flag Pole			\$5,000	
MS-A46	Paint Exterior Handrails				\$2,000
MS-A47	Spalling Concrete at Exterior Slab			\$800	
MS-A48	Caulk Top of the Metal Panel Siding System			\$8,000	
MS-A49	Caulk Joints				\$3,000
MS-A50	Recaulk Control Joints				\$1,200
MS-A51	Vertical Cracking			\$2,000	
MS-A52	Install Canopy				\$15,000
MS-A53	Repair Corners				\$1,200
MS-A54	Repair Loading Dock				\$20,000
MS-A55	Replace Concrete Slab			\$2,000	
MS-A56	Repair Exterior Metal Wall System			\$5,000	
MB-A1	Replace Building				\$2,220,000
BG-A1	Replace Doors that are Not Fire Rated and/or Handicapped Accessible			\$17,000	
BG-A2	Replace Wire Glass in Door and Window Assemblies				\$600
BG-A3	Update Toilet Room to be Handicap Accessible			\$80,000	
BG-A4	Update Exterior Door to be Handicap Accessible			\$3,000	
BG-A5	Replace Casework				\$13,500
BG-A6	Add Metal Panneling in the Washing Bay				\$4,500
BG-A7	Replace Interior Doors				\$10,000
BG-A8	Update Window Shades in Offices				\$1,500
BG-A9	Replace Metal Trenches			\$4,000	
BG-A10	Replace Angles around Trenches			\$3,000	
BG-A11	Replace Storage Room Lockers				\$3,000
BG-A12	Replace Aged Blackboard			\$1,000	
BG-A13	Replace Floor Finish				\$9,000
BG-A14	Replace Interior Partition and Door			\$3,000	
BG-A15	Add Trench in the Wash Bay			\$5,000	
BG-A16	Replace Damaged Drains			\$2,500	
BG-A17	Replace Bag Insulation				\$1,500
BG-A18	Replace Handrails on the Mezzanine			\$4,500	
BG-A19	Replace Ceiling in the Mezzanine				\$10,000
BG-A20	Provide Fire Caulking Around Pipes				\$500
BG-A21	Paint Column Bases			\$3,000	
BG-A22	Concrete Slab Pitting			\$1,500	
BG-A23	Replace Bottom Metal Siding with Masonry			\$7,000	
BG-A24	Galvanize and Paint Exterior Overhead Door Jambes			\$1,500	
BG-A25	Update Exterior Doors				\$3,000
BG-A26	Replace Damaged Metal Paneling			\$1,500	
BG-A27	Roof Replacement				\$324,000
BG-A28	Spalling Concrete at Exterior Peirs			\$2,500	
BG-A29	Replace Damaged Downspout			\$750	
BG-A30	Replace Damaged Overhead Door			\$5,000	
BG-A31	Replace Cracked Concrete Ramps			\$3,500	
BG-A32	Clean and Paint Canopy Steel			\$7,500	
FH-A1	Update Door Hardware to be Handicap Accessible			\$900	
FH-A2	Update Toilet Room to be Handicap Accessible			\$15,000	
FH-A3	Update Locker Rooms to be Handicap Accessible			\$140,000	
FH-A4	Update Public Restroom Fixtures			\$40,000	
FH-A5	Interior Doors Lacking Hardware				\$900
FH-A6	Update Public Restroom Windows			\$2,000	
FH-A7	Replace Exterior Metal Panneling System			\$30,000	

Mechanical

FH-A8	Paint Existing Structure			\$7,500	
FH-A9	Replace/Repair Roof Edge			\$1,500	
FH-A10	Roof Replacment			\$81,000	
FH-A11	Replace Deteriorated Exterior Doors/Frames			\$12,000	
FH-A12	Add Signage to Exterior				\$1,200
FH-A13	Screen Wall Frame Painting				\$2,500
HS-M1	Occupied Areas Ventilation		\$25,000		
HS-M2	Art Room Exhaust		\$15,000		
HS-M3	Gymnasium Locker Room Ventilation		\$65,000		
HS-M4	Dark Room Ventilation			\$7,500	
HS-M5	Gym Air Handling Unit Replacement			\$80,000	
HS-M6	Upgrade to DDC Controls and Digital Equipment			\$50,000	
HS-M7	HVAC System and Plumbing Fixtures in Nurse's Office Suite			\$25,000	
HS-M8	HVAC System in District Office Suite		\$45,000		
HS-M9	HVAC System in Business Office and Computer Suite		\$65,000		
HS-M10	Manual Temperature Controls in Restroom	\$10,000			
HS-M11	Redundancy in Hydronic Pumps	\$10,000			
HS-M12	Corroded Valves and Piping Accessories			\$15,000	
HS-M13	Leaking Hydronic System Pump	\$500			
HS-M14	Integrate Heat and AC in Office and Classrooms				\$4,000
HS-M15	Gymnasium Locker Room Issues			\$30,000	
HS-M16	Air Conditioning in Copy Room			\$7,500	
HS-M17	Exhaust Fan Replacement				\$6,500
HS-M18	Entrapped Air in Hydronic System air vents			\$5,000	
HS-M19	Permanent Tie-Offs for Roof Top Units				\$10,000
HS-M20	Corroded Piping in Dark Room				\$1,000
HS-M21	Missing ADA Pipe Wrap			\$4,500	
HS-M22	Damaged Pipe Insulation	\$500			
HN-M2	Replace Emergency Gas Valves			\$35,000	
HN-M3	Heating and Ventilation in Classroom Wing Toilet Rooms			\$50,000	
HN-M4	Upgrade Emergency Drench Showers		\$65,000		
HN-M5	Improve Kitchen Ventilation and Provide MUA Hood			\$45,000	
HN-M6	Replace Gym Air Handling Unit			\$100,000	
HN-M7	Boiler and Hydronic System Replacement		\$2,750,000		
HN-M8	Replace pneumatic controls with DDC		\$0		
HN-M9	Replace Library Air Handling Units		\$60,000		
HN-M10	Replace Office Suite Air Handling Units		\$30,000		
HN-M11	Replace Cafeteria Air Handling Unit		\$15,000		
HN-M12	Use of Proper Filter in Auditorium Air Handling Unit	\$0			
HN-M13	Ceiling leak in Chemical Storage Closet		\$2,500		
HN-M14	Firecaulking of Hot Water Supply Penetration				\$30,000
HN-M15	Corroded P-Trap Room 204	\$1,000			
HN-M16	Foot Controls for Kitchen Sink			\$500	
HN-M17	Damaged Cabinet Heater Cover	\$3,500			
HN-M18	Upgrade Plumbing Fixtures to Touch-Free			\$25,000	
CS-M1	Inadequate or Non-Existent Ventilation in Occupied Spaces			\$30,000	
CS-M2	Elevator Machine Room Ventilation			\$7,500	
CS-M3	Install Proper Ducting For Relief Air			\$50,000	
CS-M4	Improve Kitchen Ventilation and Provide MUA Hood			\$25,000	
CS-M5	Boiler and Steam System Replacement		\$1,400,000		
CS-M6	Replace Office Suite Air Handling Unit		\$0		
CS-M7	Replace Pneumatic Controls with DDC		\$0		
CS-M8	Emergency Boiler Shutdown Switch in Common Corridor			\$1,500	
CS-M9	Convective Heating Elements Too Hot			\$24,000	
CS-M10	Replace Exhaust Fan in Corridor 100B			\$5,000	
CS-M11	Upgrade Plumbing Fixtures to Touch-Free			\$12,000	
CS-M12	Clay Solids Trap for Art Room Sinks	\$1,000			
CS-M13	Replace Older Corridor Drinking Fountains			\$7,500	
CS-M14	Replace Bathroom Fixtures with Low Flow Units			\$40,000	
BF-M2	Install Proper Ducting For Relief Air			\$32,000	
BF-M3	Ventilation Hood for Pottery Kiln			\$1,000	
BF-M7	Replace Unit Ventilators			\$120,000	
BF-M8	Replace Outdated Exhaust Fans			\$10,000	
BF-M9	Missing ADA Pipe Wrap			\$1,000	
BF-M10	Upgrade Plumbing Fixtures to Touch-Free			\$4,500	
BF-M11	Replace Bathroom Fixtures with Low Flow Units			\$80,000	
BF-M12	Replace Outdated Drinking Fountains			\$30,000	
RR-M1	Office Ventilation			\$35,000	
RR-M2	Classroom Relief System			\$32,000	
RR-M3	Boiler Replacement		\$650,000		

RR-M4	Unit Ventilator Replacement			\$130,000	
RR-M5	Air Handling Unit Coil Replacement			\$15,000	
RR-M6	Cooridoor Convector Replacement			\$12,000	
RR-M7	Kitchen Ventilation			\$35,000	
RR-M8	Controls Upgrade		\$90,000		
GR-M1	Faculty Room Ventilation			\$15,000	
GR-M2	Office Ventilation			\$10,000	
GR-M3	Replace Unit Ventilators			\$300,000	
GR-M4	Classroom Air Handling unit Replacement			\$30,000	
GR-M5	Secondary Piping Reconfiguration			\$23,000	
GR-M6	Media Center/Main Office Air Hanling Unit Replacement			\$60,000	
GR-M7	Kitchen Air Handling Unit Replacement			\$30,000	
GR-M8	Kitchen Hood Exhaust Fan Replacement			\$10,000	
GR-M9	Gymnasium Air Handling Unit and Ductwork Replacement			\$75,000	
GR-M10	Locker Room Air Handling Unit Replacement			\$30,000	
GR-M11	Control Upgrades		\$90,000		
MS-M1	Inadequate or Non-Existent Ventilation in Occupied Spaces			\$38,000	
MS-M2	Inadequate Relief Air Path and Ventilation in Office Suites			\$60,000	
MS-M3	Ventilation Hood for Pottery Kiln			\$10,000	
MS-M4	Dust Collection System in Technology Room				\$90,000
MS-M5	Boys Training Room Not Ventilated			\$7,500	
MS-M6	Elevator Mechanical Room Ventilation			\$7,700	
MS-M7	Improve Kitchen Ventilation and Provide MUA Hood			\$50,000	
MS-M8	Drain Piping in Boiler Room loor darin			\$5,000	
MS-M9	Condensate Corrosion in Boiler Breech	\$5,000			
MS-M10	Upgrade to DDC Controls and Digital Equipment		\$250,000		
MS-M11	Replace Original Unit Ventilators			\$75,000	
MS-M12	Integrate Heat and AC in Office and Classrooms			\$20,000	
MS-M13	Replace Water Softener System			\$20,000	
MS-M14	Replace Inefficient Exhaust Fans in Field House Addition			\$45,000	
MS-M15	Replace Emergency Gas Valves			\$18,000	
MS-M16	Sanitary Drain Piping in Kitchen			\$2,000	
MS-M17	Foot Controls for Kitchen Sink			\$500	
MS-M18	Install ADA Accessible Fixtures			\$30,000	
MS-M19	Missing ADA Pipe Wrap			\$24,000	
MS-M20	Hydronic Piping Insulation in Field house Gym				\$1,000
MS-M21	Home and Careers Lockout Station			\$2,500	
MB-M1	Office Ventilation				\$100,000
BG-M1	Parts Storage Office Ventilation		\$10,000		
BG-M2	Maintance Bay Ventilation				\$65,000
BG-M3	AHU-1 Prevenative Maintance				\$1,000
BG-M4	Replace Boiler			\$40,000	
BG-M5	Compressor Room Ventilation				\$5,000
FH-M1	Increase Ventilation Rate		\$20,000		
HS-E1	Exit Egress Signage		\$6,000		
HS-E2	GFCI Receptacles	\$900			
HS-E3	Arc Flash Labeling				\$11,100
HS-E4	Fire Caulk Penetrations	\$800			
HS-E5	Fire Alarm Audio / Visual Notification Devices		\$2,000		
HS-E6	Interior Emergency Egress Lighting			\$1,400	
HS-E7	Exterior Egress Emergency Lighting		\$4,500		
HS-E8	T12 Lighting Upgrades			\$4,000	
HS-E9	T8 Lighting Upgrades				\$664,800
HS-E10	Incandescent Lighting Upgrades			\$1,000	
HS-E11	Exposed Lamp Shatter Guards	\$1,000			
HS-E12	Restore HVAC Equipment Raceway Wiring	\$2,000			
HS-E13	Occupancy Sensors				\$25,000
HS-E14	Daylight Harvesting Lighting Sensors				\$33,000
HS-E15	Replace Power Distribution Panels			\$45,000	
HS-E16	Ceiling Mount Projector Power			\$33,000	
HS-E17	Emergency Power Off Identification	\$1,200			
HS-E18	Technology Shop Busway				\$20,000
HS-E19	Provide Additional Power Outlets				\$10,000
HS-E20	Replace Exterior Wall packs			\$2,500	
HN-E1	Exit Egress Signage		\$6,000		
HN-E2	GFCI Receptacles	\$1,500			
HN-E3	Arc Flash Labeling				\$24,000
HN-E4	Fire Alarm Notification Audio / Visual Devices		\$3,000		
HN-E5	Exterior Emergency Egress Lighting		\$8,750		
HN-E6	T12 Lighting Upgrades		\$1,400		

Electrical

HN-E7	T8 Lighting Upgrades			\$905,000	
HN-E8	Incandescent Lighting Upgrades		\$1,200		
HN-E9	Occupancy Sensors				\$40,000
HN-E10	Daylight Harvesting Sensors				\$45,000
HN-E11	Power Distribution Panels			\$40,000	
HN-E12	Ceiling Mount Projector Power			\$32,000	
HN-E13	Provide Additional Power Outlets			\$10,000	
HN-E14	Replace Exterior Wall Mount Fixtures			\$4,500	
HN-E15	Replace Canopy Fixtures			\$13,500	
CS-E1	Exit Egress Signage		\$6,000		
CS-E2	Arc Flash Labeling				\$5,725
CS-E3	Fire Alarm Audio / Visual Notification Devices		\$1,600		
CS-E4	Exterior Emergency Egress Lighting		\$2,800		
CS-E5	T8 Lighting Upgrades			\$343,500	
CS-E6	Incandescent Lighting Upgrades		\$1,500		
CS-E7	Occupancy Sensors				\$35,000
CS-E8	Daylight Harvesting Lighting Sensors				\$45,000
CS-E9	Ceiling Mount Projector Power			\$15,000	
CS-E10	Provide Additional Power Outlets			\$10,000	
CS-E11	Replace Exterior Canopy & Wall Mount CFL Fixtures			\$6,750	
BF-E1	Exit Egress Signage		\$4,000		
BF-E2	GFCI Receptacles	\$2,400			
BF-E3	Arc Flash Labeling				\$5,800
BF-E4	Exterior Egress Emergency Lighting		\$4,200		
BF-E5	Provide Additional Power Outlets			\$10,000	
BF-E6	T8 Lighting Upgrades			\$345,500	
BF-E7	Exposed Lamp Shatter Guards		\$1,000		
BF-E8	Occupancy Sensors				\$25,000
BF-E9	Daylight Harvesting Lighting Sensors				\$33,750
BF-E10	Replace Power Distribution Panels			\$10,000	
BF-E11	Ceiling Mount Projector Power			\$11,000	
BF-E12	Exterior Building Mount Fixtures			\$7,200	
BF-E13	Replace Canopy Lighting Fixture			\$5,400	
RR-E1	Exit Egress Signage		\$3,200		
RR-E2	Arc Flash Labeling				\$5,250
RR-E3	Replace Fire Alarm System		\$105,000		
RR-E4	GFCI Receptacles	\$750			
RR-E5	Exterior Emergency Egress Lighting			\$3,500	
RR-E6	T8 Lighting Upgrades			\$314,000	
RR-E7	Occupancy Sensors				\$20,000
RR-E8	Daylight Harvesting Lighting Sensors				\$22,500
RR-E9	Exposed Lamp Shatter Guards		\$1,000		
RR-E10	Ceiling Mount Projector Power			\$5,500	
RR-E11	Replace Power Panels			\$10,000	
RR-E12	Provide Additional Power Outlets			\$10,000	
RR-E13	Exterior Canopy Lighting			\$5,400	
GR-E1	Exit Egress Signage		\$3,200		
GR-E2	Arc Flash Labeling				\$6,350
GR-E3	Fire Alarm Audio / Visual Notification Devices		\$10,800		
GR-E4	GFCI Receptacles	\$600			
GR-E5	Exterior Emergency Egress Lighting			\$3,500	
GR-E6	T8 Fluorescent Lighting Upgrades			\$381,000	
GR-E7	Occupancy Sensors				\$38,000
GR-E8	Daylight Harvesting Lighting Sensors				\$33,000
GR-E9	Power Distribution Panels			\$50,000	
GR-E10	Ceiling Mount Projector Power			\$11,000	
GR-E11	Provide Additional Power Outlets			\$10,000	
GR-E12	Exterior Wall Mount Lighting			\$5,400	
GR-E13	Exterior Canopy Lighting			\$5,400	
MS-E1	Exit Egress Signage		\$16,000		
MS-E2	Fire Alarm System		\$8,750		
MS-E3	Fire Alarm Audio / Visual Notification Devices		\$0		
MS-E4	Arc Flash Labeling				\$24,000
MS-E5	Kitchen Hood ANSUL System		\$2,000		
MS-E6	Exterior Emergency Egress Lighting			\$10,800	
MS-E7	GFCI Receptacles				\$1,800
MS-E8	Emergency Shut-Off Buttons	\$1,800			
MS-E9	Emergency Shut-Off Signage	\$400			
MS-E10	Technology Shop Busway			\$20,000	
MS-E11	T-8 Fluorescent Lighting Upgrades			\$1,433,000	
MS-E12	Light Switching			\$56,250	

Technology

MS-E13	Exposed Lamp Shatter Guards		\$1,000		
MS-E14	Occupancy Sensors				\$22,500
MS-E15	Daylight Harvesting Lighting Sensors				\$56,250
MS-E16	Ceiling Mount Projector Power			\$81,000	
MS-E17	Power Panels			\$120,000	
MS-E18	Kiln Disconnect			\$2,000	
MS-E19	Fire Caulk Though Wall Penetrations				\$500
MS-E20	Exterior Wall Mount Fixtures			\$10,800	
MS-E21	Canopy Mount Lighting			\$13,500	
MB-E1	Exit Egress Signage		\$0		
MB-E2	Emergency Egress Lighting	\$0			
MB-E3	Fire Alarm System		\$0		
MB-E4	Arc Flash Labeling		\$0		
MB-E5	GFCI Receptacles		\$0		
MB-E6	Fluorescent Lighting Upgrades		\$0		
MB-E7	Occupancy Sensors		\$0		
MB-E8	Electrical Service Entrance		\$0		
MB-E9	Power Distribution Panels		\$0		
BG-E1	Exit Egress Signage		\$2,400		
BG-E2	Exterior Emergency Egress Lighting		\$2,100		
BG-E3	Arc Flash Labeling				\$6,000
BG-E4	GFCI Receptacles	\$150			
BG-E5	T12 Fluorescent Lighting Upgrades			\$3,000	
BG-E6	Paint Booth Lighting Upgrades				\$18,000
BG-E7	Ceiling Mount Projector			\$1,100	
BG-E8	Electrical Service Entrance Disconnect			\$3,000	
BG-E9	Power Distribution Panels			\$28,000	
FH-E1	GFCI Receptacles				\$150
FH-E2	Emergency Egress Lighting		\$1,200		
FH-E3	Exit Egress Path Signage		\$800		
FH-E4	Electrical Service Entrance			\$5,000	
HS-T1	Network Data Closet Improvements		\$400,000		
HS-T2	Network Electronics Upgrade		\$100,000		
HS-T3	Security Video Surveillance		\$39,000		
HS-T4	Upgrade Network Data Cabling		\$400,000		
HS-T5	Wireless Network Infrastructure		\$150,000		
HS-T6	Voice over IP Phone System (District Wide)		\$623,000		
HS-T7	IP Video Distribution to Replace Cable Infrastructure		\$75,000		
HN-T1	Network Data Closet Improvements		\$206,000		
HN-T2	Network Electronics Upgrade		\$50,000		
HN-T3	Security Video Surveillance		\$39,000		
HN-T4	Upgrade Network Data Cabling		\$230,000		
HN-T5	Wireless Network Infrastructure		\$65,000		
HN-T7	IP Video Distribution to Replace Cable Infrastructure		\$20,000		
CS-T1	Network Data Closet Improvements		\$178,000		
CS-T2	Network Electronics Upgrade		\$80,000		
CS-T3	Security Video Surveillance		\$50,000		
CS-T4	Upgrade Network Data Cabling		\$204,000		
CS-T5	Wireless Network Infrastructure		\$75,000		
CS-T6	Voice over IP Phone System		\$0		
CS-T7	IP Video Distribution to Replace Cable Infrastructure		\$30,000		
BF-T1	Network Data Closet Improvements		\$262,000		
BF-T2	Network Electronics Upgrade		\$125,000		
BF-T3	Security Video Surveillance		\$50,000		
BF-T4	Upgrade Network Data Cabling		\$211,000		
BF-T5	Wireless Network Infrastructure		\$57,000		
BF-T7	IP Video Distribution to Replace Cable Infrastructure		\$30,000		
RR-T1	Network Data Closet Improvements		\$235,000		
RR-T2	Network Electronics Upgrade		\$105,000		
RR-T3	Security Video Surveillance		\$45,000		
RR-T4	Upgrade Network Data Cabling		\$189,000		
RR-T5	Wireless Network Infrastructure		\$75,000		
RR-T7	IP Video Distribution to Replace Cable Infrastructure		\$30,000		
GR-T1	Network Data Closet Improvements		\$162,000		
GR-T2	Network Electronics Upgrade		\$105,000		
GR-T3	Security Video Surveillance		\$50,000		
GR-T4	Upgrade Network Data Cabling		\$212,000		
GR-T5	Wireless Network Infrastructure		\$60,000		
GR-T7	IP Video Distribution to Replace Cable Infrastructure		\$30,000		
MS-T1	Network Data Closet Improvements		\$460,000		

Food Service

MS-T2	Network Electronics Upgrade		\$150,000	
MS-T3	Security Video Surveillance		\$90,000	
MS-T4	Upgrade Network Data Cabling		\$527,000	
MS-T5	Wireless Network Infrastructure		\$152,000	
MS-T7	IP Video Distribution to Replace Cable Infrastructure		\$30,000	
MB-T1	Network Data Closet Improvements		\$0	
MB-T2	Network Electronics Upgrade		\$0	
MB-T3	Security Video Surveillance		\$0	
MB-T4	Upgrade Network Data Cabling		\$0	
MB-T5	Wireless Network Infrastructure		\$0	
BG-T1	Network Data Closet Improvements		\$6,500	
BG-T2	Network Electronics Upgrade		\$8,000	
BG-T3	Security Video Surveillance		\$75,000	
BG-T4	Upgrade Network Data Cabling		\$7,500	
BG-T5	Wireless Network Infrastructure		\$3,000	
FH-T1	Network Data Connection		\$15,000	
FH-T2	Network Data Cabinet		\$6,500	
FH-T3	Security Video Surveillance		\$12,000	
FH-T4	Wireless Network Infrastructure		\$3,000	
FH-T5	Voice over IP Phone System		\$5,000	
HN-FS1	Replace Exhaust Hood Filters		\$1,000	
HN-FS2	Replace Warming Cabinets		\$10,000	
HN-FS3	Replace Slicer Stand		\$2,500	
HN-FS4	Replace Serving Lines		\$120,000	
HN-FS5	Replace Dishwasher		\$50,000	
HN-FS6	Replace Kettles		\$30,000	
HN-FS7	Replace Oven		\$18,000	
HN-FS8	Replace Walk-In Cooler/Freezer		\$45,000	
HN-FS9	Renovate Kitchen		\$80,000	
CS-FS1	Replace Exhaust Hood		\$30,000	
CS-FS2	Install Fire Suppression System		\$3,500	
CS-FS3	Reinstall Steamer		\$0	
CS-FS4	Replace Warming Cabinet		\$5,000	
CS-FS5	Replace Serving Line		\$80,000	
CS-FS6	Replace Floor Mixer		\$8,000	
CS-FS7	Replace Steamer		\$15,000	
CS-FS8	Replace Walk-In Cooler		\$25,000	
CS-FS9	Add Freezer Storage		\$7,000	
CS-FS10	Replace Ceiling		\$0	
CS-FS11	Replace Dishwasher		\$40,000	
CS-FS12	No Paper & Food Storage		\$0	
CS-FS13	Add Hand Sinks		\$1,200	
CS-FS14	Renovate Kitchen		\$60,000	
BF-FS1	Replace Serving Line		\$60,000	
BF-FS2	Replace Warming Cabinet		\$5,000	
BF-FS3	Three Compartment Sink		\$8,000	
BF-FS4	Replace Convection Oven		\$18,000	
BF-FS5	Replace Walk In Cooler		\$25,000	
BF-FS6	Replace Ceiling Tiles		\$0	
BF-FS7	Replace Dishwasher		\$40,000	
BF-FS8	Add Hand Sinks		\$1,200	
BF-FS9	Kitchen Renovation		\$60,000	
RR-FS1	Replace Warming Cabinet		\$5,000	
RR-FS2	Replace Serving Line		\$80,000	
RR-FS3	Replace Ceiling Tiles		\$0	
RR-FS4	Install Three Compartment Sink		\$8,000	
RR-FS5	Replace Floor Mixer		\$8,000	
RR-FS6	Replace Steamer & Kettle		\$25,000	
RR-FS7	Replace Walk-In Cooler		\$25,000	
RR-FS8	Replace Dishwasher		\$40,000	
RR-FS9	Renovate Kitchen		\$60,000	
GR-FS1	Replace Exhaust Hood		\$30,000	
GR-FS2	Install Fire Suppression System		\$3,500	
GR-FS3	Replace Warming Cabinet		\$5,000	
GR-FS4	Replace Serving Line		\$80,000	
GR-FS5	Replace Refrigerator		\$10,000	
GR-FS6	No Paper & Dry Food Storage		\$0	
GR-FS7	Replace Kettle & Steamer		\$25,000	
GR-FS8	Replace Oven		\$18,000	
GR-FS9	Replace Ceiling		\$0	

Theatrical

GR-FS10	Replace Water Cooled Condensing Units		\$15,000	
GR-FS11	Kitchen Renovation		\$80,000	
MS-FS1	Replace Exhaust Hood		\$1,000	
MS-FS2	Replace Exhaust Hood		\$35,000	
MS-FS3	Install Fire Suppression System		\$4,500	
MS-FS4	Replace Serving Lines		\$160,000	
MS-FS5	Replace Ceiling		\$0	
MS-FS6	Replace Walk-In Cooler		\$30,000	
MS-FS7	Replace Dishwasher		\$45,000	
MS-FS8	Replace Warming Cabinets		\$15,000	
MS-FS9	Relocate Paper & Chemical Storage		\$0	
MS-FS10	Replace Steamer		\$15,000	
MS-FS11	Replace Oven		\$28,000	
MS-FS12	Replace Kettle		\$15,000	
MS-FS13	Replace Mixer Stand		\$2,500	
MS-FS14	Replace Serving Line (Intermediate School)		\$60,000	
MS-FS15	Add Hand Sink (Intermediate School)		\$600	
MS-FS16	Replace Warming Cabinet (Intermediate School)		\$5,000	
MS-FS17	Renovate Kitchen		\$80,000	
HN-TH1	Room Acoustics		\$0	
HN-TH2	Audio System		\$0	
HN-TH3	Lighting System	\$115,000		
HN-TH4	Houselighting System	\$40,000		
HN-TH5	Stage Rigging System	\$0		
HN-TH6	Stage Rigging System - Improvements	\$0		
HN-TH7	Stage Rigging System - Curtains	\$0		
HN-TH8	Video Presentation System	\$75,000		
CS-TH1	Room Acoustics	\$30,000		
CS-TH2	Audio System	\$80,000		
CS-TH3	Lighting System	\$65,000		
CS-TH4	Houselighting System	\$8,000		
CS-TH5	Stage Rigging System	\$6,000		
CS-TH6	Stage Rigging System - Improvements	\$45,000		
CS-TH7	Stage Rigging System - Curtain Tracks	\$10,000		
CS-TH8	Video Presentation System	\$17,000		
BF-TH1	Room Acoustics	\$30,000		
BF-TH2	Audio System	\$80,000		
BF-TH3	Lighting System	\$65,000		
BF-TH4	Houselighting System	\$8,000		
BF-TH5	Stage Rigging System	\$3,000		
BF-TH6	Stage Rigging System - Improvements	\$25,000		
BF-TH7	Stage Rigging System - Curtains & Tracks	\$25,000		
BF-TH8	FOH Cove Lighting System	\$10,000		
BF-TH9	Video Presentation System	\$34,000		
RR-TH1	Room Acoustics	\$30,000		
RR-TH2	Audio System	\$80,000		
RR-TH3	Lighting System	\$65,000		
RR-TH4	Houselighting System	\$8,000		
RR-TH5	Stage Rigging System	\$3,000		
RR-TH6	Stage Rigging System - Improvements	\$25,000		
RR-TH7	Stage Rigging System - Curtains Tracks	\$10,000		
RR-TH8	Video Presentation System	\$34,000		
RR-TH9	FOH Cove Lighting System	\$10,000		
GR-TH1	Room Acoustics	\$30,000		
GR-TH2	Audio System	\$80,000		
GR-TH3	Lighting System	\$65,000		
GR-TH4	Houselighting System	\$8,000		
GR-TH5	Stage Rigging System	\$3,000		
GR-TH6	Stage Rigging System - Improvements	\$25,000		
GR-TH7	Stage Rigging System - Curtains	\$30,000		
GR-TH8	FOH Cove Lighting System	\$10,000		
GR-TH9	Video Presentation System	\$34,000		
MS-TH1	Room Acoustics	\$30,000		
MS-TH2	Audio System	\$80,000		
MS-TH3	Lighting System	\$65,000		
MS-TH4	Houselighting System	\$8,000		
MS-TH5	Stage Rigging System	\$2,500		
MS-TH6	Stage Rigging System - Improvements	\$25,000		
MS-TH7	Stage Rigging System - Curtains	\$2,000		
MS-TH8	Video Presentation System	\$20,000		



ENGINEERS ARCHITECTS LAND SURVEYORS, PC
 Airport Corporate Park, 100 Hunt Center
 Horseheads, NY 14845-1019
 P: 607-358-1000
 F: 607-358-1800

Senior High School North

Summary of Estimated Expenses

Horseheads CSD

SED NO. 07-09-01-06

		Year 1 Total:	\$15,700	\$7,924,530	\$7,486,060	\$5,876,600
Year 1	Item No.	Description	Maint.	Priority 1	Priority 2	Priority 3
Site						
	HN-L1	Property Line Fencing				\$105,000
	HN-L2	Asphalt Parking		\$670,000		
	HN-L3	Upgrade Loading Dock				\$32,000
	HN-L4	Asphalt Parking - Eliminate Obstacles		\$528,000		
	HN-L5	Asphalt Pavement at North HS/Elem		\$491,000		
	HN-L6	Add Handrails to Stair		\$4,000		
	HN-L7	Upgrade Lighting			\$100,000	
	HN-L8	Remove Damaged Vegetation	\$1,500			
	HN-L9	Asphalt Parking at Student Lot		\$375,000		
	HN-L10	Update Entrance				\$35,000
	HN-L11	Property Line Fencing				\$0
	HN-L12	New/Relocated Stadium				\$5,000,000
	HN-L13	Baseball Field				\$450,000
	HN-L14	Softball Field		\$550,000		
	HN-L15	Redundant Fencing				\$0
Architectural						
	HN-A1	Replace Doors that are Not Fire Rated and/or Handicapped Accessible			\$391,500	
	HN-A2	Replace Wire and Non Rated Glass in Door and Window Assemblies				\$5,000
	HN-A3	Non-Rated Corridor Walls		\$240,000		
	HN-A4	Replace Non-Impact Resistant Glass		\$20,000		
	HN-A5	Biology 101		\$8,000		
	HN-A6	Handrails and Guardrails		\$20,000		
	HN-A7	Boiler Room Vestibule		\$20,000		
	HN-A8	Smoke Stop Curtain at Elevator		\$10,000		
	HN-A9	Corridor Coiling Doors				\$4,500
	HN-A10	Fire Rated Stairs		\$15,000		
	HN-A11	Investigate U-Shaped Roof Joists				\$7,500
	HN-A12	Crack in Concrete Floor System			\$2,000	
	HN-A13	Auditorium Catwalk Fall Protection		\$3,000		
	HN-A14	Update Toilet Rooms to be Handicap Accessible			\$750,000	
	HN-A15	Update Locker Rooms to be Handicap Accessible			\$537,500	
	HN-A16	Update Drinking Fountains to be Handicap Accessible			\$8,000	
	HN-A17	Replace Casework		\$360,000		
	HN-A18	Renovate Gym			\$160,000	
	HN-A19	Renovate Pool			\$975,000	
	HN-A20	Expansion Joints				\$60,000
	HN-A21	Stair Treads			\$200,000	
	HN-A22	Door Infill's	\$1,500			
	HN-A23	Replace Acoustic Ceiling Tile			\$366,000	
	HN-A24	Replace Carpet			\$60,000	
	HN-A25	Floor Shifting		\$120,000		
	HN-A26	Replace Corridor Wood Wall Panels			\$30,000	
	HN-A27	Replace VCT		\$277,650		
	HN-A28	Music Rooms			\$24,000	

HN-A29	Replace Library Bookshelves			\$288,000	
HN-A30	Replace Aged Blackboards / Tack boards		\$56,000		
HN-A31	Replace Aged Window Treatments			\$70,560	
HN-A32	Abate 9"x9" Vinyl Asbestos Floor Tile		\$32,000		
HN-A33	Receiving Room			\$4,000	
HN-A34	Stair Floor Finish				\$12,000
HN-A35	Computer Desks		\$49,000		
HN-A36	UV Shelving			\$320,000	
HN-A37	Minor Masonry Wall Cracking	\$1,000			
HN-A38	Lack of Control Joints				\$5,000
HN-A39	Access Ladder Anchor	\$300			
HN-A40	Metal Deck Corrosion	\$0			
HN-A41	Nurses Office			\$58,500	
HN-A42	Science Classrooms		\$266,500		
HN-A43	Home & Careers		\$139,750		
HN-A44	Cafeteria and Kitchen			\$1,477,500	
HN-A45	Replace Roof		\$356,280		
HN-A46	Replace/Provide Roof Ladders/Stairs		\$8,000		
HN-A47	Provide Cages for Skylights				\$6,000
HN-A48	Replace Louvers				\$3,600
HN-A49	Replace Deteriorated Exterior Doors		\$44,000		
HN-A50	Update Exterior Railings to be ADA Compliant		\$4,000		
HN-A51	Caulk and Paint Flashing				\$12,000
HN-A52	Repair Main Entrance Stairs		\$1,500		
HN-A53	Replace Stairs at Library			\$5,000	
HN-A54	Replace Exterior Doors/Frames		\$8,000		
HN-A55	Stepped Cracking			\$2,400	
HN-A56	Replace Expansion Joints			\$3,600	
HN-A57	Steel Column Base Corrosion			\$3,000	
HN-A58	Trim Vegetation Around the Building	\$800			
HN-A59	Repair Stairs and Repaint Handrails			\$3,000	
HN-A60	Secure the Loading Dock Area			\$12,000	
HN-A61	Recaulk Metal Flashing and Window Sills			\$8,000	
HN-A62	Chipped Concrete	\$1,200			
HN-A63	Brick Replacement	\$3,000			
HN-A64	Repair Corroded Metal Window System		\$15,000		
HN-A65	Replace Fascia and Soffit			\$1,500	
HN-A66	Replace Overhead Doors			\$8,000	
HN-A67	Remove/Replace Metal Mesh Tube	\$400			

Mechanical

HN-M1	Upgrade Ventilation System in Chemical Storage Closet			\$25,000	
HN-M2	Replace Emergency Gas Valves			\$35,000	
HN-M3	Heating and Ventilation in Classroom Wing Toilet Rooms			\$50,000	
HN-M4	Upgrade Emergency Drench Showers		\$65,000		
HN-M5	Improve Kitchen Ventilation and Provide MUA Hood			\$45,000	
HN-M6	Replace Gym Air Handling Unit			\$100,000	
HN-M7	Boiler and Hydronic System Replacement		\$2,750,000		
HN-M8	Replace pneumatic controls with DDC		\$0		
HN-M9	Replace Library Air Handling Units		\$60,000		
HN-M10	Replace Office Suite Air Handling Units		\$30,000		
HN-M11	Replace Cafeteria Air Handling Unit		\$15,000		
HN-M12	Use of Proper Filter in Auditorium Air Handling Unit	\$0			
HN-M13	Ceiling leak in Chemical Storage Closet		\$2,500		
HN-M14	Firecaulking of Hot Water Supply Penetration				\$30,000
HN-M15	Corroded P-Trap Room 204	\$1,000			
HN-M16	Foot Controls for Kitchen Sink			\$500	
HN-M17	Damaged Cabinet Heater Cover	\$3,500			
HN-M18	Upgrade Plumbing Fixtures to Touch-Free			\$25,000	

Electrical

HN-E1	Exit Egress Signage		\$6,000		
HN-E2	GFCI Receptacles	\$1,500			
HN-E3	Arc Flash Labeling				\$24,000
HN-E4	Fire Alarm Notification Audio / Visual Devices		\$3,000		
HN-E5	Exterior Emergency Egress Lighting		\$8,750		
HN-E6	T12 Lighting Upgrades		\$1,400		
HN-E7	T8 Lighting Upgrades			\$905,000	
HN-E8	Incandescent Lighting Upgrades		\$1,200		
HN-E9	Occupancy Sensors				\$40,000
HN-E10	Daylight Harvesting Sensors				\$45,000
HN-E11	Power Distribution Panels			\$40,000	
HN-E12	Ceiling Mount Projector Power			\$32,000	
HN-E13	Provide Additional Power Outlets			\$10,000	
HN-E14	Replace Exterior Wall Mount Fixtures			\$4,500	
HN-E15	Replace Canopy Fixtures			\$13,500	

Technology

HN-T1	Network Data Closet Improvements		\$206,000		
HN-T2	Network Electronics Upgrade		\$50,000		
HN-T3	Security Video Surveillance		\$39,000		
HN-T4	Upgrade Network Data Cabling		\$230,000		
HN-T5	Wireless Network Infrastructure		\$65,000		
HN-T7	IP Video Distribution to Replace Cable Infrastructure		\$20,000		

Food Service

HN-FS1	Replace Exhaust Hood Filters			\$1,000	
HN-FS2	Replace Warming Cabinets			\$10,000	
HN-FS3	Replace Slicer Stand			\$2,500	
HN-FS4	Replace Serving Lines			\$120,000	
HN-FS5	Replace Dishwasher			\$50,000	
HN-FS6	Replace Kettles			\$30,000	
HN-FS7	Replace Oven			\$18,000	
HN-FS8	Replace Walk-In Cooler/Freezer			\$45,000	
HN-FS9	Renovate Kitchen			\$80,000	

Theatrical

HN-TH1	Room Acoustics		\$0		
HN-TH2	Audio System		\$0		
HN-TH3	Lighting System		\$115,000		
HN-TH4	Houselighting System		\$40,000		
HN-TH5	Stage Rigging System		\$0		
HN-TH6	Stage Rigging System - Improvements		\$0		
HN-TH7	Stage Rigging System - Curtains		\$0		
HN-TH8	Video Presentation System		\$75,000		
YEAR 1 TOTAL:			\$15,700	\$7,924,530	\$7,486,060
				\$5,876,600	



ENGINEERS ARCHITECTS LAND SURVEYORS, PC
 Airport Corporate Park, 100 Hunt Center
 Horseheads, NY 14845-1019
 P: 607-358-1000
 F: 607-358-1800

Senior High School South

Summary of Estimated Expenses

Horseheads CSD

SED NO. 07-09-01-06

		Year 1 Total:	\$33,050	\$5,678,000	\$3,093,050	\$905,300
Year 1	Item No.	Description	Maint.	Priority 1	Priority 2	Priority 3
Architectural						
	HS-A1	Replace Doors that are Not Fire Rated and/or Handicapped Accessible			\$395,000	
	HS-A2	Replace Wire Glass in Door			\$400	
	HS-A3	Non-Rated Corridor Walls		\$319,200		
	HS-A4	Replace Non-Impact Resistant Glass		\$5,600		
	HS-A5	Handrails and Guardrails		\$25,000		
	HS-A6	Boiler Room Vestibule		\$30,000		
	HS-A7	Smoke Stop Curtain at Elevator		\$10,000		
	HS-A8	Investigate U-Shaped Roof and Floor Joists			\$7,500	
	HS-A9	Update Toilet Room to be Handicap Accessible			\$750,000	
	HS-A10	Update Locker Rooms to be Handicap Accessible			\$450,000	
	HS-A11	Update Drinking Fountains to be Handicap Accessible			\$24,000	
	HS-A12	Replace Casework			\$522,000	
	HS-A13	Renovate Gym			\$184,000	
	HS-A14	LGI		\$60,000		
	HS-A15	Technology 150		\$48,000		
	HS-A16	Cracked Terrazzo	\$900			
	HS-A17	Replace Acoustic Ceiling Tile			\$248,000	
	HS-A18	Replace Carpet			\$60,000	
	HS-A19	Replace VCT			\$66,000	
	HS-A20	Refinish Wood Floor				\$60,000
	HS-A21	Replace Aged Blackboards / Tack boards		\$157,500		
	HS-A22	Replace Aged Window Treatments				\$38,400
	HS-A23	Abate 9"x9" Vinyl Asbestos Floor Tile		\$685,000		
	HS-A24	Replace Aged Insulated Metal Panel Wall System		\$630,000		
	HS-A25	Stair Floor Finish				\$3,000
	HS-A26	Computer Desks		\$154,000		
	HS-A27	Lack of Control Joints				\$5,000
	HS-A28	Expansion Joint in Floor				\$5,000
	HS-A29	Nurse and Work Room Renovations		\$91,000		
	HS-A30	English Classrooms		\$650,000		
	HS-A31	Provide Cages for Skylights	\$3,000			
	HS-A32	Replace Overhead Door			\$2,500	
	HS-A33	Repair Chipped Masonry	\$1,500			
	HS-A34	Replace Deteriorated Exterior Doors		\$12,000		
	HS-A35	Update Exterior Railings to be ADA Compliant			\$7,500	
	HS-A36	Replace Main Entrance Stairs		\$5,000		
	HS-A37	Update the Loading Dock to be Secure			\$5,500	
	HS-A38	Replace Exterior Window Systems			\$54,000	
	HS-A39	Replace Overhead Doors at Receiving Room				\$6,000
	HS-A40	Repair Wall System			\$5,250	
	HS-A41	Replace Window Caulking	\$750			
	HS-A42	Replace Fascia				\$2,500
	HS-A43	Roof Replacement		\$781,200		

Mechanical

HS-M1	Occupied Areas Ventilation		\$25,000		
HS-M2	Art Room Exhaust		\$15,000		
HS-M3	Gymnasium Locker Room Ventilation		\$65,000		
HS-M4	Dark Room Ventilation			\$7,500	
HS-M5	Gym Air Handling Unit Replacement			\$80,000	
HS-M6	Upgrade to DDC Controls and Digital Equipment			\$50,000	
HS-M7	HVAC System and Plumbing Fixtures in Nurse's Office Suite			\$25,000	
HS-M8	HVAC System in District Office Suite		\$45,000		
HS-M9	HVAC System in Business Office and Computer Suite		\$65,000		
HS-M10	Manual Temperature Controls in Restroom	\$10,000			
HS-M11	Redundancy in Hydronic Pumps	\$10,000			
HS-M12	Corroded Valves and Piping Accessories			\$15,000	
HS-M13	Leaking Hydronic System Pump	\$500			
HS-M14	Integrate Heat and AC in Office and Classrooms				\$4,000
HS-M15	Gymnasium Locker Room Issues			\$30,000	
HS-M16	Air Conditioning in Copy Room			\$7,500	
HS-M17	Exhaust Fan Replacement				\$6,500
HS-M18	Entrapped Air in Hydronic System air vents			\$5,000	
HS-M19	Permanent Tie-Offs for Roof Top Units				\$10,000
HS-M20	Corroded Piping in Dark Room				\$1,000
HS-M21	Missing ADA Pipe Wrap			\$4,500	
HS-M22	Damaged Pipe Insulation	\$500			

Electrical

HS-E1	Exit Egress Signage		\$6,000		
HS-E2	GFCI Receptacles	\$900			
HS-E3	Arc Flash Labeling				\$11,100
HS-E4	Fire Caulk Penetrations	\$800			
HS-E5	Fire Alarm Audio / Visual Notification Devices		\$2,000		
HS-E6	Interior Emergency Egress Lighting			\$1,400	
HS-E7	Exterior Egress Emergency Lighting		\$4,500		
HS-E8	T12 Lighting Upgrades			\$4,000	
HS-E9	T8 Lighting Upgrades				\$664,800
HS-E10	Incandescent Lighting Upgrades			\$1,000	
HS-E11	Exposed Lamp Shatter Guards	\$1,000			
HS-E12	Restore HVAC Equipment Raceway Wiring	\$2,000			
HS-E13	Occupancy Sensors				\$25,000
HS-E14	Daylight Harvesting Lighting Sensors				\$33,000
HS-E15	Replace Power Distribution Panels			\$45,000	
HS-E16	Ceiling Mount Projector Power			\$33,000	
HS-E17	Emergency Power Off Identification	\$1,200			
HS-E18	Technology Shop Busway				\$20,000
HS-E19	Provide Additional Power Outlets				\$10,000
HS-E20	Replace Exterior Wall packs			\$2,500	

Technology

HS-T1	Network Data Closet Improvements		\$400,000		
HS-T2	Network Electronics Upgrade		\$100,000		
HS-T3	Security Video Surveillance		\$39,000		
HS-T4	Upgrade Network Data Cabling		\$400,000		
HS-T5	Wireless Network Infrastructure		\$150,000		
HS-T6	Voice over IP Phone System (District Wide)		\$623,000		
HS-T7	IP Video Distribution to Replace Cable Infrastructure		\$75,000		
YEAR 1 TOTAL:		\$33,050	\$5,678,000	\$3,093,050	\$905,300



ENGINEERS ARCHITECTS LAND SURVEYORS, PC
 Airport Corporate Park, 100 Hunt Center
 Horseheads, NY 14845-1019
 P: 607-358-1000
 F: 607-358-1800

Center Street

Summary of Estimated Expenses

Horseheads CSD

SED NO. 07-09-01-06

		Year 1 Total:				
		\$9,300	\$4,252,200	\$4,663,100	\$156,225	
Year 1	Item No.	Description	Maint.	Priority 1	Priority 2	Priority 3
Site						
	CS-L1	Replace Playground Equipment		\$40,000		
	CS-L2	Replace Curb		\$6,000		
	CS-L3	Dumpster Enclosure				\$35,000
	CS-L4	Concrete Walks		\$25,000		
	CS-L5	Playground A		\$130,000		
	CS-L6	Playground B		\$150,000		
	CS-L7	ADA Signage		\$2,500		
Architectural						
	CS-A1	Replace Doors that are Not Fire Rated and/or Handicapped Accessible			\$183,000	
	CS-A2	Replace Wire Glass in Library Window Assembly			\$2,500	
	CS-A3	Top Out Fire Rated Partitions			\$2,000	
	CS-A4	Replace Non-Impact Resistant Glass		\$4,000		
	CS-A5	Enclose Existing Stairs with Fire Rated Partitions and Doors		\$20,000		
	CS-A6	Infill Door under Stair Landing	\$2,000			
	CS-A7	Provide Handrails at Existing Platform Stairs	\$800			
	CS-A8	Boiler Room Vestibule		\$10,000		
	CS-A9	Corridor Coiling Fire Door			\$500	
	CS-A10	Storage Under Stage				\$5,000
	CS-A11	Smoke Stop Curtain at Elevator		\$10,000		
	CS-A12	Update Coiling Doors at Dishwashing Station			\$3,500	
	CS-A13	Replace Door Knobs With Handicapped Accessible Levers		\$1,200		
	CS-A14	Update Toilet Room to be Handicap Accessible			\$240,000	
	CS-A15	Update Drinking Fountains to be Handicap Accessible			\$6,000	
	CS-A16	Replace Casework		\$562,500		
	CS-A17	Renovate Gym			\$90,000	
	CS-A18	Cafeteria, Kitchen & Receiving			\$429,000	
	CS-A19	Platform Stage Floor Finish				\$7,500
	CS-A20	Main Office and Nurse			\$251,500	
	CS-A21	Replace Acoustic Ceiling Tile			\$298,675	
	CS-A22	Replace Asbestos Plaster Ceiling		\$30,000		
	CS-A23	Replace Asbestos Plaster Wall Finish			\$1,270,000	
	CS-A24	Replace Kitchen Lockers			\$1,800	
	CS-A25	Replace Aged Blackboards / Tack boards		\$33,600		
	CS-A26	Replace Aged Window Treatments			\$38,400	
	CS-A27	Library			\$764,875	
	CS-A28	Abate 9"x9" Vinyl Asbestos Floor Tile		\$22,000		
	CS-A29	Replace Aged Unit Ventilator Shelving			\$216,000	
	CS-A30	Cracked Terrazzo			\$1,200	
	CS-A31	Inst. Music 119	\$500			
	CS-A32	Minor Masonry Wall Cracking	\$1,000			
	CS-A33	Lack of Control Joints				\$5,000
	CS-A34	Control Joint Cracking				\$5,000
	CS-A35	Masonry Cracking Above Opening		\$0		
	CS-A36	Replace Roof		\$814,500		

CS-A37	Re-caulk Window Sills			\$1,500	
CS-A38	Replace Louvers				\$10,500
CS-A39	Replace Concrete Pads and Re-Caulk				\$2,500
CS-A40	Replace/Add Roof Ladders		\$5,500		
CS-A41	Replace Deteriorated Exterior Doors		\$12,000		
CS-A42	Repair Exterior Expansion/Control Joints			\$4,200	
CS-A43	Replace Concrete Chimney Cap		\$1,000		
CS-A44	Provide Walkway Pads		\$2,500		
CS-A45	Replace Exterior Window Systems		\$80,000		
CS-A46	Replace Overhead Doors at Storage Room			\$6,000	
CS-A47	Paint Exterior Railings	\$1,500			
CS-A48	Spalling Concrete	\$2,500			

Mechanical

CS-M1	Inadequate or Non-Existent Ventilation in Occupied Spaces			\$30,000	
CS-M2	Elevator Machine Room Ventilation			\$7,500	
CS-M3	Install Proper Ducting For Relief Air			\$50,000	
CS-M4	Improve Kitchen Ventilation and Provide MUA Hood			\$25,000	
CS-M5	Boiler and Steam System Replacement		\$1,400,000		
CS-M6	Replace Office Suite Air Handling Unit		\$0		
CS-M7	Replace Pneumatic Controls with DDC		\$0		
CS-M8	Emergency Boiler Shutdown Switch in Common Corridor			\$1,500	
CS-M9	Convective Heating Elements Too Hot			\$24,000	
CS-M10	Replace Exhaust Fan in Corridor 100B			\$5,000	
CS-M11	Upgrade Plumbing Fixtures to Touch-Free			\$12,000	
CS-M12	Clay Solids Trap for Art Room Sinks	\$1,000			
CS-M13	Replace Older Corridor Drinking Fountains			\$7,500	
CS-M14	Replace Bathroom Fixtures with Low Flow Units			\$40,000	

Electrical

CS-E1	Exit Egress Signage		\$6,000		
CS-E2	Arc Flash Labeling				\$5,725
CS-E3	Fire Alarm Audio / Visual Notification Devices		\$1,600		
CS-E4	Exterior Emergency Egress Lighting		\$2,800		
CS-E5	T8 Lighting Upgrades			\$343,500	
CS-E6	Incandescent Lighting Upgrades		\$1,500		
CS-E7	Occupancy Sensors				\$35,000
CS-E8	Daylight Harvesting Lighting Sensors				\$45,000
CS-E9	Ceiling Mount Projector Power			\$15,000	
CS-E10	Provide Additional Power Outlets			\$10,000	
CS-E11	Replace Exterior Canopy & Wall Mount CFL Fixtures			\$6,750	

Technology

CS-T1	Network Data Closet Improvements		\$178,000		
CS-T2	Network Electronics Upgrade		\$80,000		
CS-T3	Security Video Surveillance		\$50,000		
CS-T4	Upgrade Network Data Cabling		\$204,000		
CS-T5	Wireless Network Infrastructure		\$75,000		
CS-T6	Voice over IP Phone System		\$0		
CS-T7	IP Video Distribution to Replace Cable Infrastructure		\$30,000		

Food Service

CS-FS1	Replace Exhaust Hood			\$30,000	
CS-FS2	Install Fire Suppression System			\$3,500	
CS-FS3	Reinstall Steamer			\$0	
CS-FS4	Replace Warming Cabinet			\$5,000	
CS-FS5	Replace Serving Line			\$80,000	
CS-FS6	Replace Floor Mixer			\$8,000	
CS-FS7	Replace Steamer			\$15,000	
CS-FS8	Replace Walk-In Cooler			\$25,000	
CS-FS9	Add Freezer Storage			\$7,000	
CS-FS10	Replace Ceiling			\$0	
CS-FS11	Replace Dishwasher			\$40,000	

CS-FS12	No Paper & Food Storage			\$0	
CS-FS13	Add Hand Sinks			\$1,200	
CS-FS14	Renovate Kitchen			\$60,000	

Theatrical

CS-TH1	Room Acoustics		\$30,000		
CS-TH2	Audio System		\$80,000		
CS-TH3	Lighting System		\$65,000		
CS-TH4	Houselighting System		\$8,000		
CS-TH5	Stage Rigging System		\$6,000		
CS-TH6	Stage Rigging System - Improvements		\$45,000		
CS-TH7	Stage Rigging System - Curtain Tracks		\$10,000		
CS-TH8	Video Presentation System		\$17,000		
YEAR 1 TOTAL:			\$9,300	\$4,252,200	\$4,663,100
					\$156,225



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 P: 607-358-1000
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Big Flats

Summary of Estimated Expenses

Horseheads CSD

SED NO. 07-09-01-06

		Year 1 Total:	\$2,400	\$4,255,850	\$2,627,225	\$1,380,300
Year 1	Item No.	Description	Maint.	Priority 1	Priority 2	Priority 3
Site						
	BF-L1	Entrance/Exit Drive and Bus Loop		\$246,000		
	BF-L2	Main Parking Lots		\$540,000		
	BF-L3	Concrete Walks		\$25,000		
	BF-L4	Hard Play Areas and Basketball Court			\$185,000	
	BF-L5	Replace Basketball Hoops			\$6,000	
	BF-L6	Playgrounds		\$320,000		
Architectural						
	BF-A1	Replace Doors that are Not Fire Rated and/or Handicapped Accessible			\$180,000	
	BF-A2	Replace Non-Impact Resistant Glass		\$10,000		
	BF-A3	Provide Handrails at Existing Platform Stairs		\$600		
	BF-A4	Boiler Room Vestibule			\$10,000	
	BF-A5	Storage Under Stage			\$5,000	
	BF-A6	Update Coiling Doors at Dishwashing Station			\$3,500	
	BF-A7	Replace Metal Ladder from Stage to Mechanical Room				\$6,000
	BF-A8	U-Shaped Roof Joists	\$0			
	BF-A9	Replace Door Knobs With Handicapped Accessible Levers		\$300		
	BF-A10	Corridor 020 Ramp				\$15,000
	BF-A11	Update Toilet Room to be Handicap Accessible			\$300,000	
	BF-A12	Update Drinking Fountains to be Handicap Accessible			\$10,000	
	BF-A13	Replace Casework		\$301,500		
	BF-A14	Renovate Gym			\$80,000	
	BF-A15	Renovate Library			\$80,000	
	BF-A16	Renovate Cafeteria			\$30,000	
	BF-A17	Renovate Kitchen			\$120,000	
	BF-A18	Stage			\$20,000	
	BF-A19	Replace Acoustic Ceiling Tile			\$255,125	
	BF-A20	Replace Asbestos Plaster Ceiling/Soffit and Wall		\$256,450		
	BF-A21	Replace Lockers				\$32,000
	BF-A22	Replace Aged Blackboards / Tackboards		\$82,600		
	BF-A23	Replace Aged Window Treatments			\$39,360	
	BF-A24	Abate 9"x9" Vinyl Asbestos Floor Tile		\$530,000		
	BF-A25	Replace Aged Unit Ventilator Shelving			\$340,000	
	BF-A26	Replace Aged Computer Desks		\$35,000		
	BF-A27	Replace Worn Floor Finishes			\$26,220	
	BF-A28	Vestibule Creation			\$24,000	
	BF-A29	Masonry Cracking in Auditoria			\$7,500	
	BF-A30	Minor Masonry Wall Cracking				\$2,000
	BF-A31	Existing Expansion Joints				\$5,000
	BF-A32	Pre-K Addition				\$1,006,000
	BF-A33	Tech Closet				\$22,750
	BF-A34	Kiln				\$5,000
	BF-A35	Pre-K Classrooms				\$162,500
	BF-A36	ASD Classroom				\$52,000
	BF-A37	Replace Roof System		\$863,700		

BF-A38	Provide Ladders/Stairs to Access Roof Heights		\$5,500		
BF-A39	Replace Deteriorated Exterior Doors		\$5,000		
BF-A40	Update Exterior Railings to be ADA Compliant		\$10,000		
BF-A41	Repair Exterior Expansion Joint			\$1,000	
BF-A42	Masonry Re-Pointing				\$2,500
BF-A43	Replace Exterior Window Systems			\$10,240	
BF-A44	Spalling Concrete			\$4,480	
BF-A45	Patch Stairs and Repaint Handrails			\$1,000	
BF-A46	Replace Loading Dock				\$5,000
BF-A47	Paint and Repair Canopies			\$1,500	
BF-A48	Steel Column Base Corrosion			\$2,500	

Mechanical

BF-M1	Inadequate or Non-Existent Ventilation in Occupied Spaces			\$15,000	
BF-M2	Install Proper Ducting For Relief Air			\$32,000	
BF-M3	Ventilation Hood for Pottery Kiln			\$1,000	
BF-M4	Boiler and Steam System Replacement		\$1,500,000		
BF-M5	Emergency Boiler Shutdown Switch in Common Corridor		\$1,500		
BF-M6	Supply Air in Faculty Nurse's Suite			\$20,000	
BF-M7	Replace Unit Ventilators			\$120,000	
BF-M8	Replace Outdated Exhaust Fans			\$10,000	
BF-M9	Missing ADA Pipe Wrap			\$1,000	
BF-M10	Upgrade Plumbing Fixtures to Touch-Free			\$4,500	
BF-M11	Replace Bathroom Fixtures with Low Flow Units			\$80,000	
BF-M12	Replace Outdated Drinking Fountains			\$30,000	

Electrical

BF-E1	Exit Egress Signage		\$4,000		
BF-E2	GFCI Receptacles	\$2,400			
BF-E3	Arc Flash Labeling				\$5,800
BF-E4	Exterior Egress Emergency Lighting		\$4,200		
BF-E5	Provide Additional Power Outlets			\$10,000	
BF-E6	T8 Lighting Upgrades			\$345,500	
BF-E7	Exposed Lamp Shatter Guards		\$1,000		
BF-E8	Occupancy Sensors				\$25,000
BF-E9	Daylight Harvesting Lighting Sensors				\$33,750
BF-E10	Replace Power Distribution Panels			\$10,000	
BF-E11	Ceiling Mount Projector Power			\$11,000	
BF-E12	Exterior Building Mount Fixtures			\$7,200	
BF-E13	Replace Canopy Lighting Fixture			\$5,400	

Technology

BF-T1	Network Data Closet Improvements		\$262,000		
BF-T2	Network Electronics Upgrade		\$125,000		
BF-T3	Security Video Surveillance		\$50,000		
BF-T4	Upgrade Network Data Cabling		\$211,000		
BF-T5	Wireless Network Infrastructure		\$57,000		
BF-T7	IP Video Distribution to Replace Cable Infrastructure		\$30,000		

Food Service

BF-FS1	Replace Serving Line			\$60,000	
BF-FS2	Replace Warming Cabinet			\$5,000	
BF-FS3	Three Compartment Sink			\$8,000	
BF-FS4	Replace Convection Oven			\$18,000	
BF-FS5	Replace Walk In Cooler			\$25,000	
BF-FS6	Replace Ceiling Tiles			\$0	
BF-FS7	Replace Dishwasher			\$40,000	
BF-FS8	Add Hand Sinks			\$1,200	
BF-FS9	Kitchen Renovation			\$60,000	

Theatrical

BF-TH1	Room Acoustics		\$30,000		
BF-TH2	Audio System		\$80,000		
BF-TH3	Lighting System		\$65,000		

BF-TH4	Houselighting System		\$8,000		
BF-TH5	Stage Rigging System		\$3,000		
BF-TH6	Stage Rigging System - Improvements		\$25,000		
BF-TH7	Stage Rigging System - Curtains & Tracks		\$25,000		
BF-TH8	FOH Cove Lighting System		\$10,000		
BF-TH9	Video Presentation System		\$34,000		
YEAR 1 TOTAL:		\$2,400	\$4,255,850	\$2,627,225	\$1,380,300



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 P: 607-358-1000
 F: 607-358-1800

Ridge Road

Summary of Estimated Expenses

Horseheads CSD

SED NO. 07-09-01-06

		Year 1 Total:	\$3,550	\$4,012,600	\$2,854,550	\$188,550
Year 1	Item No.	Description	Maint.	Priority 1	Priority 2	Priority 3
Site						
	RR-L1	Bus Loop		\$92,000		
	RR-L2	East Parking Lots and Bus Drop off		\$700,000		
	RR-L3	Student Hard Play Area			\$45,000	
	RR-L4	Electrical Service				\$0
	RR-L5	Remove & Repair Asphalt at Bus Loop & Entrance Drive		\$150,000		
	RR-L6	Backstop				\$30,000
	RR-L7	Playpropund surfacing			\$60,000	
	RR-L8	Sidewalk Repair		\$100,000		
Architectural						
	RR-A1	Replace Doors that are Not Fire Rated and/or Handicapped Accessible			\$204,000	
	RR-A2	Replace Wire Glass in Library Window Assembly		\$2,500		
	RR-A3	Replace Non-Impact Resistant Glass		\$4,000		
	RR-A4	Provide Handrails at Existing Platform Stairs			\$600	
	RR-A5	Boiler Room Vestibule			\$10,000	
	RR-A6	Storage Under Stage				\$5,000
	RR-A7	Update Coiling Doors at Dishwashing Station			\$3,500	
	RR-A8	Replace Metal Ladder from Stage to Mechanical Room				\$6,000
	RR-A9	Investigate Deteriorated U-Shaped Roof Joists		\$4,000		
	RR-A10	Load Rating for Wood Framed Storage	\$2,000			
	RR-A11	Replace Door Knobs With Handicapped Accessible Levers		\$7,200		
	RR-A12	Update Toilet Room to be Handicap Accessible			\$225,000	
	RR-A13	Update Drinking Fountains to be Handicap Accessible			\$10,000	
	RR-A14	Replace Casework		\$225,000		
	RR-A15	Renovate Gym			\$23,000	
	RR-A16	Renovate Cafeteria			\$30,000	
	RR-A17	Platform Stage Floor Finish			\$7,000	
	RR-A18	Replace Acoustic Ceiling Tile			\$236,000	
	RR-A19	Replace Asbestos Plaster Ceiling/Soffit			\$75,000	
	RR-A20	Replace Lockers				\$48,000
	RR-A21	Replace Aged Blackboards / Tack boards		\$63,000		
	RR-A22	Replace Aged Window Treatments			\$26,000	
	RR-A23	Abate 9"x9" Vinyl Asbestos Floor Tile		\$470,000		
	RR-A24	Nurse and Social Worker Suite			\$68,250	
	RR-A25	Classroom Addition			\$600,000	
	RR-A26	Replace Aged Unit Ventilator Shelving			\$260,000	
	RR-A27	Replace Aged Computer Desks		\$52,500		
	RR-A28	Replace Floor Access Panel to Crawl Space			\$2,000	
	RR-A29	Replace Worn Floor Finishes			\$17,000	
	RR-A30	Horizontal Masonry Wall Cracking			\$1,000	
	RR-A31	Lack of Control Joints			\$7,500	
	RR-A32	Control Joint Cracking			\$6,000	
	RR-A33	Concrete Pitting and Spalling				\$2,000
	RR-A34	Repaint Roof Ladders			\$1,600	
	RR-A35	Roof Replacement		\$349,200		

RR-A36	Replace Deteriorated Exterior Doors			\$40,000	
RR-A37	Trim Vegetation Around the Building	\$800			
RR-A38	Masonry Re-Pointing			\$1,000	
RR-A39	Replace Roof Top Unit Supports			\$600	
RR-A40	Restore Chimney			\$3,000	
RR-A41	Replace Louvers			\$600	
RR-A42	Replace Plastic Flashing			\$6,000	
RR-A43	Spalling Concrete at Exterior Slab				\$3,500
RR-A44	Replace Caulk Joints				\$4,000
RR-A45	Repair Existing Control Joints				\$1,200
RR-A46	Update and Repair the Loading Dock				\$20,000
RR-A47	Paint Corroded Structure				\$2,000
RR-A48	Replace Exterior Door/Frame			\$3,000	
RR-A49	Replace Brick				\$10,000
RR-A50	Replace Exit by Classrooms 108 and 109			\$3,500	
RR-A51	Replace Metal Panel at Main Entrance				\$600
RR-A52	Repaint Exterior Ceiling Outside the Gymnasium				\$2,000
RR-A53	Provide Paint for Flashing			\$4,000	
RR-A54	Restore Precast Panels and Lintels				\$5,000
RR-A55	Repair Exit Stairs and Ramp			\$16,000	
RR-A56	Steel Column Base Corrosion				\$1,500

Mechanical

RR-M1	Office Ventilation			\$35,000	
RR-M2	Classroom Relief System			\$32,000	
RR-M3	Boiler Replacement		\$650,000		
RR-M4	Unit Ventilator Replacement			\$130,000	
RR-M5	Air Handling Unit Coil Replacement			\$15,000	
RR-M6	Cooridor Convector Replacement			\$12,000	
RR-M7	Kitchen Ventilation			\$35,000	
RR-M8	Controls Upgrade		\$90,000		

Electrical

RR-E1	Exit Egress Signage		\$3,200		
RR-E2	Arc Flash Labeling				\$5,250
RR-E3	Replace Fire Alarm System		\$105,000		
RR-E4	GFCI Receptacles	\$750			
RR-E5	Exterior Emergency Egress Lighting			\$3,500	
RR-E6	T8 Lighting Upgrades			\$314,000	
RR-E7	Occupancy Sensors				\$20,000
RR-E8	Daylight Harvesting Lighting Sensors				\$22,500
RR-E9	Exposed Lamp Shatter Guards		\$1,000		
RR-E10	Ceiling Mount Projector Power			\$5,500	
RR-E11	Replace Power Panels			\$10,000	
RR-E12	Provide Additional Power Outlets			\$10,000	
RR-E13	Exterior Canopy Lighting			\$5,400	

Technology

RR-T1	Network Data Closet Improvements		\$235,000		
RR-T2	Network Electronics Upgrade		\$105,000		
RR-T3	Security Video Surveillance		\$45,000		
RR-T4	Upgrade Network Data Cabling		\$189,000		
RR-T5	Wireless Network Infrastructure		\$75,000		
RR-T7	IP Video Distribution to Replace Cable Infrastructure		\$30,000		

Food Service

RR-FS1	Replace Warming Cabinet			\$5,000	
RR-FS2	Replace Serving Line			\$80,000	
RR-FS3	Replace Ceiling Tiles			\$0	
RR-FS4	Install Three Compartment Sink			\$8,000	
RR-FS5	Replace Floor Mixer			\$8,000	
RR-FS6	Replace Steamer & Kettle			\$25,000	
RR-FS7	Replace Walk-In Cooler			\$25,000	

RR-FS8	Replace Dishwasher			\$40,000	
RR-FS9	Renovate Kitchen			\$60,000	

Theatrical

RR-TH1	Room Acoustics		\$30,000		
RR-TH2	Audio System		\$80,000		
RR-TH3	Lighting System		\$65,000		
RR-TH4	Houselighting System		\$8,000		
RR-TH5	Stage Rigging System		\$3,000		
RR-TH6	Stage Rigging System - Improvements		\$25,000		
RR-TH7	Stage Rigging System - Curtains Tracks		\$10,000		
RR-TH8	Video Presentation System		\$34,000		
RR-TH9	FOH Cove Lighting System		\$10,000		
YEAR 1 TOTAL:			\$3,550	\$4,012,600	\$2,854,550
					\$188,550



ENGINEERS ARCHITECTS LAND SURVEYORS, PC
 Airport Corporate Park, 100 Hunt Center
 Horseheads, NY 14845-1019
 P: 607-358-1000
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Gardner Road

Summary of Estimated Expenses

Horseheads CSD

SED NO. 07-09-01-06

		Year 1 Total:	\$600	\$4,695,800	\$3,583,285	\$228,650
Year 1	Item No.	Description	Maint.	Priority 1	Priority 2	Priority 3
Site						
	GR-L1	Asphalt Pavement		\$998,000		
	GR-L2	Dumpster Enclosures/Pad				\$40,000
	GR-L3	Fencing				\$26,000
	GR-L4	South Asphalt Play Area			\$0	
	GR-L5	Playground and Hard Play Area			\$250,000	
	GR-L6	Lighting			\$40,000	
Architectural						
	GR-A1	Replace Doors that are Not Fire Rated and/or Handicapped Accessible			\$168,000	
	GR-A2	Replace Wire Glass in Media Center Window Assembly				\$2,500
	GR-A3	Replace Non-Impact Resistant Glass		\$10,000		
	GR-A4	Provide Handrails at Existing Platform Stairs			\$600	
	GR-A5	Corridor Walls			\$45,000	
	GR-A6	Storage Under Stage				\$5,000
	GR-A7	Investigate U-Shaped Roof Joists			\$5,000	
	GR-A8	Second Means of Egress		\$15,000		
	GR-A9	Update Coiling Door at Dishwashing Station			\$3,500	
	GR-A10	Update Coiling Door in Gymnasium			\$6,000	
	GR-A11	Update Toilet Room to be Handicap Accessible			\$270,000	
	GR-A12	Update Drinking Fountains to be Handicap Accessible			\$4,000	
	GR-A13	Existing Corridors			\$60,000	
	GR-A14	Replace Casework		\$751,500		
	GR-A15	Provide Vestibules		\$40,000		
	GR-A16	Renovate Gym			\$61,500	
	GR-A17	Platform Stage Floor Finish			\$7,000	
	GR-A18	Stage Proscenium			\$16,000	
	GR-A19	Replace Acoustic Ceiling Tile			\$267,475	
	GR-A20	Library			\$275,000	
	GR-A21	Gang Toilet Rooms			\$281,750	
	GR-A22	Health Office			\$60,000	
	GR-A23	Corridor Cubbies				\$76,800
	GR-A24	Replace Aged Blackboards / Tack boards		\$86,800		
	GR-A25	Replace Aged Window Treatments			\$41,760	
	GR-A26	Abate 9"x9" Vinyl Asbestos Floor Tile		\$591,500		
	GR-A27	Replace Aged Unit Ventilator Shelving			\$324,000	
	GR-A28	Replace Aged Computer Desks		\$35,000		
	GR-A29	Replace Worn Floor Finishes			\$28,000	
	GR-A30	Minor Masonry Wall Cracking			\$1,500	
	GR-A31	Horizontal Masonry Wall Cracking				\$1,000
	GR-A32	Exterior Masonry Wall Cracking			\$2,000	
	GR-A33	Replace Supports on Roof Top Unit		\$1,200		
	GR-A34	Replace Roof Access Door and Frame			\$3,000	
	GR-A35	Replace Exterior Doors		\$12,000		
	GR-A36	Recalk and Repaint Exterior Steel Columns			\$4,000	
	GR-A37	Replace Deteriorated Exterior Doors		\$56,000		

GR-A38	Roof Replacement		\$1,090,800		
GR-A39	Repair Exterior Caulk Joints and Railing			\$2,000	
GR-A40	Repair Chipped Concrete			\$800	
GR-A41	Masonry Re-Pointing			\$600	
GR-A42	Vertical Masonry Cracking			\$6,000	
GR-A43	Stepped Masonry Cracking			\$8,000	
GR-A44	Water Damage to Exterior			\$4,000	
GR-A45	Spalling Concrete at Exterior Corners			\$4,000	
GR-A46	Replace Metal Door			\$3,000	
GR-A47	Steel Canopy Corrosion			\$6,000	
GR-A48	Canopy Column Base Corrosion			\$4,000	
GR-A49	Replace Exterior Brick Control Joints			\$1,200	
GR-A50	Check Tops of All Columns for Insects			\$2,000	
GR-A51	Repair Damaged Masonry			\$800	

Mechanical

GR-M1	Faculty Room Ventilation			\$15,000	
GR-M2	Office Ventilation			\$10,000	
GR-M3	Replace Unit Ventilators			\$300,000	
GR-M4	Classroom Air Handling unit Replacement			\$30,000	
GR-M5	Secondary Piping Reconfiguration			\$23,000	
GR-M6	Media Center/Main Office Air Handling Unit Replacement			\$60,000	
GR-M7	Kitchen Air Handling Unit Replacement			\$30,000	
GR-M8	Kitchen Hood Exhaust Fan Replacement			\$10,000	
GR-M9	Gymnasium Air Handling Unit and Ductwork Replacement			\$75,000	
GR-M10	Locker Room Air Handling Unit Replacement			\$30,000	
GR-M11	Control Upgrades		\$90,000		

Electrical

GR-E1	Exit Egress Signage		\$3,200		
GR-E2	Arc Flash Labeling				\$6,350
GR-E3	Fire Alarm Audio / Visual Notification Devices		\$10,800		
GR-E4	GFCI Receptacles	\$600			
GR-E5	Exterior Emergency Egress Lighting			\$3,500	
GR-E6	T8 Fluorescent Lighting Upgrades			\$381,000	
GR-E7	Occupancy Sensors				\$38,000
GR-E8	Daylight Harvesting Lighting Sensors				\$33,000
GR-E9	Power Distribution Panels			\$50,000	
GR-E10	Ceiling Mount Projector Power			\$11,000	
GR-E11	Provide Additional Power Outlets			\$10,000	
GR-E12	Exterior Wall Mount Lighting			\$5,400	
GR-E13	Exterior Canopy Lighting			\$5,400	

Technology

GR-T1	Network Data Closet Improvements		\$162,000		
GR-T2	Network Electronics Upgrade		\$105,000		
GR-T3	Security Video Surveillance		\$50,000		
GR-T4	Upgrade Network Data Cabling		\$212,000		
GR-T5	Wireless Network Infrastructure		\$60,000		
GR-T7	IP Video Distribution to Replace Cable Infrastructure		\$30,000		

Food Service

GR-FS1	Replace Exhaust Hood			\$30,000	
GR-FS2	Install Fire Suppression System			\$3,500	
GR-FS3	Replace Warming Cabinet			\$5,000	
GR-FS4	Replace Serving Line			\$80,000	
GR-FS5	Replace Refrigerator			\$10,000	
GR-FS6	No Paper & Dry Food Storage			\$0	
GR-FS7	Replace Kettle & Steamer			\$25,000	
GR-FS8	Replace Oven			\$18,000	
GR-FS9	Replace Ceiling			\$0	
GR-FS10	Replace Water Cooled Condensing Units			\$15,000	
GR-FS11	Kitchen Renovation			\$80,000	

Theatrical

GR-TH1	Room Acoustics		\$30,000		
GR-TH2	Audio System		\$80,000		
GR-TH3	Lighting System		\$65,000		
GR-TH4	Houselighting System		\$8,000		
GR-TH5	Stage Rigging System		\$3,000		
GR-TH6	Stage Rigging System - Improvements		\$25,000		
GR-TH7	Stage Rigging System - Curtains		\$30,000		
GR-TH8	FOH Cove Lighting System		\$10,000		
GR-TH9	Video Presentation System		\$34,000		
YEAR 1 TOTAL:			\$600	\$4,695,800	\$3,583,285
				\$228,650	



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Intermediate/Middle School

Summary of Estimated Expenses

Horseheads CSD

SED NO. 07-09-01-06

		Year 1 Total:	\$7,200	\$4,968,890	\$9,018,600	\$20,303,850
Year 1	Item No.	Description	Maint.	Priority 1	Priority 2	Priority 3
Site						
	MS-L1	Maintenance Entrance		\$73,000		
	MS-L2	Pedestrian Access		\$10,000		
	MS-L3	HC Signage		\$5,500		
	MS-L4	South Parking Lot and Student Drop off		\$550,000		
	MS-L5	Loading Docks				\$200,000
	MS-L6	Student Drop Off		\$150,000		
	MS-L7	North Parking Lots		\$925,000		
	MS-L8	Lighting			\$50,000	
	MS-L9	Catch Basins		\$10,000		
	MS-L10	North West Parking Lot		\$0		
	MS-L11	Playgrounds			\$300,000	
	MS-L12	Playground Swings			\$15,500	
	MS-L13	Swing Use Zone			\$1,500	
	MS-L14	Playground Signage			\$500	
	MS-L15	Bus Loop		\$500,000		
	MS-L16	Concrete Walks			\$35,000	
	MS-L17	Walking Trail				\$25,000
	MS-L18	Expand Athletic Fields to South				\$200,000
	MS-L19	Replace ADA Ramp		\$35,000		
Architectural						
	MS-A1	Replace Doors that are Not Fire Rated and/or Handicapped Accessible			\$644,000	
	MS-A2	Replace Wire Glass in Door and Window Assembly				\$9,000
	MS-A3	Fire Rated Stair Partitions		\$30,000		
	MS-A4	Replace Non-Impact Resistant Glass		\$40,000		
	MS-A5	Boiler Room Vestibule			\$10,000	
	MS-A6	Investigate U-Shaped Roof Joists			\$7,500	
	MS-A7	Library Casework			\$200,000	
	MS-A8	Smoke Stop Curtain at Elevator		\$20,000		
	MS-A9	Concession Stand Coiling Door				\$4,000
	MS-A10	Concrete Slab Investigation			\$6,000	
	MS-A11	Update Toilet Room to be Handicap Accessible			\$510,000	
	MS-A12	Update Gang Toilet Rooms			\$120,000	
	MS-A13	Update Locker Rooms			\$360,000	
	MS-A14	Update Drinking Fountains to be Handicap Accessible			\$22,000	
	MS-A15	Update Handrails to be Handicap Accessible			\$10,000	
	MS-A16	Ramp to Technology Rooms			\$20,000	
	MS-A17	Replace Casework			\$639,000	
	MS-A18	Gym			\$38,500	
	MS-A19	Cafeteria			\$1,055,900	
	MS-A20	Replace Acoustic Ceiling Tile			\$812,000	
	MS-A21	Replace Lockers			\$230,000	
	MS-A22	Replace Aged Blackboards / Tackboards		\$168,000		
	MS-A23	Replace Aged Window Treatments			\$100,000	
	MS-A24	Cracked Terrazzo				\$2,400

MS-A25	Replace Aged Unit Ventilator Shelving			\$640,000	
MS-A26	Testing Space				\$500,000
MS-A27	Gathering Space				\$500,000
MS-A28	Library				\$578,500
MS-A29	Field House			\$425,000	
MS-A30	Main Office and Nurse Suite			\$55,250	
MS-A31	Metal Deck Corrosion			\$0	
MS-A32	Moisture Penetration into Crawl Space				\$2,000
MS-A33	Pool Addition				\$9,500,000
MS-A34	Auditorium Addition				\$8,500,000
MS-A35	Roof Replacement		\$500,940		
MS-A36	Provide Snow Guards on Field House Addition				\$3,000
MS-A37	Repoint Chimney Mortar Joints			\$1,000	
MS-A38	Golf Inst. Turf				\$40,000
MS-A39	Replace Deteriorated Exterior Doors		\$18,000		
MS-A40	Provide Ladders to Higher Roofs		\$3,000		
MS-A41	Provide Cage/Guardrail to Existing Ladder/Hatch				\$1,500
MS-A42	Drain and Fix Entrance Canopy		\$1,200		
MS-A43	Caulk Top of Metal Roof Finishing			\$8,000	
MS-A44	Repaint Corroded Canopy Supports			\$20,000	
MS-A45	Replace Flag Pole			\$5,000	
MS-A46	Paint Exterior Handrails				\$2,000
MS-A47	Spalling Concrete at Exterior Slab			\$800	
MS-A48	Caulk Top of the Metal Panel Siding System			\$8,000	
MS-A49	Caulk Joints				\$3,000
MS-A50	Recaulk Control Joints				\$1,200
MS-A51	Vertical Cracking			\$2,000	
MS-A52	Install Canopy				\$15,000
MS-A53	Repair Corners				\$1,200
MS-A54	Repair Loading Dock				\$20,000
MS-A55	Replace Concrete Slab			\$2,000	
MS-A56	Repair Exterior Metal Wall System			\$5,000	

Mechanical

MS-M1	Inadequate or Non-Existent Ventilation in Occupied Spaces			\$38,000	
MS-M2	Inadequate Relief Air Path and Ventilation in Office Suites			\$60,000	
MS-M3	Ventilation Hood for Pottery Kiln			\$10,000	
MS-M4	Dust Collection System in Technology Room				\$90,000
MS-M5	Boys Training Room Not Ventilated			\$7,500	
MS-M6	Elevator Mechanical Room Ventilation			\$7,700	
MS-M7	Improve Kitchen Ventilation and Provide MUA Hood			\$50,000	
MS-M8	Drain Piping in Boiler Room floor drain			\$5,000	
MS-M9	Condensate Corrosion in Boiler Breech	\$5,000			
MS-M10	Upgrade to DDC Controls and Digital Equipment		\$250,000		
MS-M11	Replace Original Unit Ventilators			\$75,000	
MS-M12	Integrate Heat and AC in Office and Classrooms			\$20,000	
MS-M13	Replace Water Softener System			\$20,000	
MS-M14	Replace Inefficient Exhaust Fans in Field House Addition			\$45,000	
MS-M15	Replace Emergency Gas Valves			\$18,000	
MS-M16	Sanitary Drain Piping in Kitchen			\$2,000	
MS-M17	Foot Controls for Kitchen Sink			\$500	
MS-M18	Install ADA Accessible Fixtures			\$30,000	
MS-M19	Missing ADA Pipe Wrap			\$24,000	
MS-M20	Hydronic Piping Insulation in Field house Gym				\$1,000
MS-M21	Home and Careers Lockout Station			\$2,500	

Electrical

MS-E1	Exit Egress Signage		\$16,000		
MS-E2	Fire Alarm System		\$8,750		
MS-E3	Fire Alarm Audio / Visual Notification Devices		\$0		
MS-E4	Arc Flash Labeling				\$24,000

MS-E5	Kitchen Hood ANSUL System		\$2,000		
MS-E6	Exterior Emergency Egress Lighting			\$10,800	
MS-E7	GFCI Receptacles				\$1,800
MS-E8	Emergency Shut-Off Buttons	\$1,800			
MS-E9	Emergency Shut-Off Signage	\$400			
MS-E10	Technology Shop Busway			\$20,000	
MS-E11	T-8 Fluorescent Lighting Upgrades			\$1,433,000	
MS-E12	Light Switching			\$56,250	
MS-E13	Exposed Lamp Shatter Guards		\$1,000		
MS-E14	Occupancy Sensors				\$22,500
MS-E15	Daylight Harvesting Lighting Sensors				\$56,250
MS-E16	Ceiling Mount Projector Power			\$81,000	
MS-E17	Power Panels			\$120,000	
MS-E18	Kiln Disconnect			\$2,000	
MS-E19	Fire Caulk Through Wall Penetrations				\$500
MS-E20	Exterior Wall Mount Fixtures			\$10,800	
MS-E21	Canopy Mount Lighting			\$13,500	

Technology

MS-T1	Network Data Closet Improvements		\$460,000		
MS-T2	Network Electronics Upgrade		\$150,000		
MS-T3	Security Video Surveillance		\$90,000		
MS-T4	Upgrade Network Data Cabling		\$527,000		
MS-T5	Wireless Network Infrastructure		\$152,000		
MS-T7	IP Video Distribution to Replace Cable Infrastructure		\$30,000		

Food Service

MS-FS1	Replace Exhaust Hood			\$1,000	
MS-FS2	Replace Exhaust Hood			\$35,000	
MS-FS3	Install Fire Suppression System			\$4,500	
MS-FS4	Replace Serving Lines			\$160,000	
MS-FS5	Replace Ceiling			\$0	
MS-FS6	Replace Walk-In Cooler			\$30,000	
MS-FS7	Replace Dishwasher			\$45,000	
MS-FS8	Replace Warming Cabinets			\$15,000	
MS-FS9	Relocate Paper & Chemical Storage			\$0	
MS-FS10	Replace Steamer			\$15,000	
MS-FS11	Replace Oven			\$28,000	
MS-FS12	Replace Kettle			\$15,000	
MS-FS13	Replace Mixer Stand			\$2,500	
MS-FS14	Replace Serving Line (Intermediate School)			\$60,000	
MS-FS15	Add Hand Sink (Intermediate School)			\$600	
MS-FS16	Replace Warming Cabinet (Intermediate School)			\$5,000	
MS-FS17	Renovate Kitchen			\$80,000	

Theatrical

MS-TH1	Room Acoustics		\$30,000			
MS-TH2	Audio System		\$80,000			
MS-TH3	Lighting System		\$65,000			
MS-TH4	Houselighting System		\$8,000			
MS-TH5	Stage Rigging System		\$2,500			
MS-TH6	Stage Rigging System - Improvements		\$25,000			
MS-TH7	Stage Rigging System - Curtains		\$2,000			
MS-TH8	Video Presentation System		\$20,000			
MS-TH9	FOH Cove Lighting System		\$10,000			
YEAR 1 TOTAL:			\$7,200	\$4,968,890	\$9,018,600	\$20,303,850



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 Airport Corporate Park, 100 Hunt Center
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Maintenance Building

Summary of Estimated Expenses

Horseheads CSD

SED NO. 07-09-01-06

			Year 1 Total:			
			\$0	\$620,000	\$0	\$2,330,000
Year 1	Item No.	Description	Maint.	Priority 1	Priority 2	Priority 3
Site						
	MB-L1	Asphalt Parking		\$620,000		
	MB-L2	Temp. Storage Buildings				\$10,000
Architectural						
	MB-A1	Replace Building				\$2,220,000
Mechanical						
	MB-M1	Office Ventilation				\$100,000
Electrical						
	MB-E1	Exit Egress Signage		\$0		
	MB-E2	Emergency Egress Lighting	\$0			
	MB-E3	Fire Alarm System		\$0		
	MB-E4	Arc Flash Labeling		\$0		
	MB-E5	GFCI Receptacles		\$0		
	MB-E6	Fluorescent Lighting Upgrades		\$0		
	MB-E7	Occupancy Sensors		\$0		
	MB-E8	Electrical Service Entrance		\$0		
	MB-E9	Power Distribution Panels		\$0		
Technology						
	MB-T1	Network Data Closet Improvements		\$0		
	MB-T2	Network Electronics Upgrade		\$0		
	MB-T3	Security Video Surveillance		\$0		
	MB-T4	Upgrade Network Data Cabling		\$0		
	MB-T5	Wireless Network Infrastructure		\$0		
YEAR 1 TOTAL:			\$0	\$620,000	\$0	\$2,330,000



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Bus Garage

Summary of Estimated Expenses

Horseheads CSD

SED NO. 07-09-01-06

		Year 1 Total:	\$150	\$2,114,500	\$356,850	\$476,100
Year 1	Item No.	Description	Maint.	Priority 1	Priority 2	Priority 3
Site						
	BG-L1	Entrance Drive		\$325,000		
	BG-L2	Asphalt Bus Parking West		\$775,000		
	BG-L3	Asphalt Bus Parking East		\$900,000		
	BG-L4	Lighting			\$125,000	
	BG-L5	Electrical Service				\$0
	BG-L6	Utility Improvements				\$0
Architectural						
	BG-A1	Replace Doors that are Not Fire Rated and/or Handicapped Accessible			\$17,000	
	BG-A2	Replace Wire Glass in Door and Window Assemblies				\$600
	BG-A3	Update Toilet Room to be Handicap Accessible			\$80,000	
	BG-A4	Update Exterior Door to be Handicap Accessible			\$3,000	
	BG-A5	Replace Casework				\$13,500
	BG-A6	Add Metal Panneling in the Washing Bay				\$4,500
	BG-A7	Replace Interior Doors				\$10,000
	BG-A8	Update Window Shades in Offices				\$1,500
	BG-A9	Replace Metal Trenches			\$4,000	
	BG-A10	Replace Angles around Trenches			\$3,000	
	BG-A11	Replace Storage Room Lockers				\$3,000
	BG-A12	Replace Aged Blackboard			\$1,000	
	BG-A13	Replace Floor Finish				\$9,000
	BG-A14	Replace Interior Partition and Door			\$3,000	
	BG-A15	Add Trench in the Wash Bay			\$5,000	
	BG-A16	Replace Damaged Drains			\$2,500	
	BG-A17	Replace Bag Insulation				\$1,500
	BG-A18	Replace Handrails on the Mezzanine			\$4,500	
	BG-A19	Replace Ceiling in the Mezzanine				\$10,000
	BG-A20	Provide Fire Caulking Around Pipes				\$500
	BG-A21	Paint Column Bases			\$3,000	
	BG-A22	Concrete Slab Pitting			\$1,500	
	BG-A23	Replace Bottom Metal Siding with Masonry			\$7,000	
	BG-A24	Galvanize and Paint Exterior Overhead Door Jamb			\$1,500	
	BG-A25	Update Exterior Doors				\$3,000
	BG-A26	Replace Damaged Metal Paneling			\$1,500	
	BG-A27	Roof Replacement				\$324,000
	BG-A28	Spalling Concrete at Exterior Peirs			\$2,500	
	BG-A29	Replace Damaged Downspout			\$750	
	BG-A30	Replace Damaged Overhead Door			\$5,000	
	BG-A31	Replace Cracked Concrete Ramps			\$3,500	
	BG-A32	Clean and Paint Canopy Steel			\$7,500	
Mechanical						
	BG-M1	Parts Storage Office Ventilation		\$10,000		
	BG-M2	Maintance Bay Ventilation				\$65,000
	BG-M3	AHU-1 Prevenative Maintance				\$1,000
	BG-M4	Replace Boiler			\$40,000	

BG-M5	Compressor Room Ventilation				\$5,000
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Electrical

BG-E1	Exit Egress Signage		\$2,400		
BG-E2	Exterior Emergency Egress Lighting		\$2,100		
BG-E3	Arc Flash Labeling				\$6,000
BG-E4	GFCI Receptacles	\$150			
BG-E5	T12 Fluorescent Lighting Upgrades			\$3,000	
BG-E6	Paint Booth Lighting Upgrades				\$18,000
BG-E7	Ceiling Mount Projector			\$1,100	
BG-E8	Electrical Service Entrance Disconnect			\$3,000	
BG-E9	Power Distribution Panels			\$28,000	

Technology

BG-T1	Network Data Closet Improvements		\$6,500		
BG-T2	Network Electronics Upgrade		\$8,000		
BG-T3	Security Video Surveillance		\$75,000		
BG-T4	Upgrade Network Data Cabling		\$7,500		
BG-T5	Wireless Network Infrastructure		\$3,000		

YEAR 1 TOTAL:

		\$150	\$2,114,500	\$356,850	\$476,100
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Field House

Summary of Estimated Expenses

Horseheads CSD

SED NO. 07-09-01-06

		Year 1 Total:	\$0	\$423,500	\$334,900	\$4,750
Year 1	Item No.	Description	Maint.	Priority 1	Priority 2	Priority 3
Site						
	FH-L1	Replace Fieldhouse Parking Lot		\$360,000		
Architectural						
	FH-A1	Update Door Hardware to be Handicap Accessible			\$900	
	FH-A2	Update Toilet Room to be Handicap Accessible			\$15,000	
	FH-A3	Update Locker Rooms to be Handicap Accessible			\$140,000	
	FH-A4	Update Public Restroom Fixtures			\$40,000	
	FH-A5	Interior Doors Lacking Hardware				\$900
	FH-A6	Update Public Restroom Windows			\$2,000	
	FH-A7	Replace Exterior Metal Panneling System			\$30,000	
	FH-A8	Paint Existing Structure			\$7,500	
	FH-A9	Replace/Repair Roof Edge			\$1,500	
	FH-A10	Roof Replacment			\$81,000	
	FH-A11	Replace Deteriorated Exterior Doors/Frames			\$12,000	
	FH-A12	Add Signage to Exterior				\$1,200
	FH-A13	Screen Wall Frame Painting				\$2,500
Mechanical						
	FH-M1	Increase Ventilation Rate		\$20,000		
Electrical						
	FH-E1	GFCI Receptacles				\$150
	FH-E2	Emergency Egress Lighting		\$1,200		
	FH-E3	Exit Egress Path Signage		\$800		
	FH-E4	Electrical Service Entrance			\$5,000	
Technology						
	FH-T1	Network Data Connection		\$15,000		
	FH-T2	Network Data Cabinet		\$6,500		
	FH-T3	Security Video Surveillance		\$12,000		
	FH-T4	Wireless Network Infrastructure		\$3,000		
	FH-T5	Voice over IP Phone System		\$5,000		
YEAR 1 TOTAL:			\$0	\$423,500	\$334,900	\$4,750

SYSTEMS DESCRIPTIONS



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Airport Corporate Park, 100 Hunt Center
Horseheads, NY 14845-1019
P: 607-358-1000
F: 607-358-1800

Senior High School North

Mechanical Description

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Boilers:

Age- 60 Years

Expected remaining useful life- 5 Years

Rating- Satisfactory

Description: There are two natural gas fired Cleaver Brooks Industrial fire tube steam boilers of un-equal size. Steam is piped throughout the building and various heat exchangers are employed within the system to convert to hot water, which serves a portion of the building. Primary control of terminal units is governed by a pneumatic system, with retro-fitted electronic control in numerous locations.

Domestic Water Systems:

Age- 60 Years

Expected remaining useful life- 5 Years

Rating- Satisfactory

Description: The water supply is municipal.

Domestic Hot Water:

Age-

Expected remaining useful life-

Rating-

Description: Domestic hot water is produced by various electric hot water heaters. These are located throughout the building in de-centralized locations in close proximity to the terminal supply.

Sanitary and Storm Systems:

Age- 60 Years
Expected remaining useful life- 5 Years
Rating- Satisfactory

Description: The sanitary waste from the school empties to municipal systems.

Classroom Ventilation/Heat:

Age- 12 Years
Expected remaining useful life- 20 Years
Rating- Satisfactory

Description: The majority of classrooms feature unit ventilators which were upgraded in a capital project during the year indicated above. Steam and in some cases hot water is piped to the unit ventilators which provides the heat source. Ventilation is pulled in to the classroom by the unit ventilator through exterior intake louvers. The ventilation is relieved out of the classrooms through various methods typically dictated by which building addition a particular classroom is located within. Some through louvered doors into the corridor, and others via duct work into corridor plenum. The corridors exhaust to roof mounted roof hoods and exhaust fans. Electronic DDC controls control the units in most classrooms but not installed in all.

Science Instruction, Preparatory, and Storage Room Ventilation/Heat:

Age- Unit Ventilators: 12 Years
MUA: 28 Years
Expected remaining useful life- 20 Years, 5 Years
Rating- Satisfactory

Description: The majority of science classrooms feature unit ventilators which were upgraded in a capital project during the year indicated above. Steam and in some cases hot water is piped to the unit ventilators which provides the heat source. Ventilation is pulled in to the classroom by the unit ventilator through exterior intake louvers. Further ventilation for fume hoods and the space in general is provided by 100% OA fan coils located in adjacent preparatory rooms. Electronic DDC controls control the unit and space in most classrooms but not installed in all.

Kitchen:

Age- 47 Years
Expected remaining useful life- 5 Years
Rating- Satisfactory

Description: The kitchen has 3 exhaust hoods installed over dishwashing and cooking equipment, and two additional ceiling grilles which exhaust to the roof. Supply air is transferred from the Cafeteria through wall louvers and doorways, and one supply louver over the serving area tied to Cafeteria supply ducting.

Cafetorium:

Age- 47 Years
Expected remaining useful life- 5 Years
Rating- Satisfactory

Description: Heating and ventilation serving the Cafeteria is provided by a roof top air handling unit. Heating is supplemented by perimeter radiation.

Gymnasium:

Age- 57 Years

Expected remaining useful life- 5 Years

Rating- Unsatisfactory

Description: Heating and ventilation serving the Gymnasium is ducted into the space and is served by an Air Handling Unit located in the Mechanical room above the locker rooms.

Auxiliary Gymnasium & Weight Rm.:

Age- 28 Years

Expected remaining useful life- 5 Years

Rating- Satisfactory

Description: Heating and ventilation serving the Auxiliary Gymnasium & Weight Room is ducted into the space and is served by an 2 roof top air handling units.

Locker Rooms:

Age- 57 Years

Expected remaining useful life- 5 Years

Rating- Unsatisfactory

Description: The Locker Rooms located between the Pool Space and the Gymnasium are heated and ventilated by unit ventilators.

Pool:

Age- 8 Years

Expected remaining useful life- 20 Years

Rating- Satisfactory

Description: Heating and ventilation serving the Pool is ducted into the space and is served by an Air Handling Unit located on the roof adjacent to the space.

Auditorium:

Age- 8 Years

Expected remaining useful life- 20 Years

Rating- Satisfactory

Description: Heating, Cooling and Ventilation serving the Auditorium is ducted into the space and is served by an Air Handling Unit located in the Mechanical Room above the band and chorus rooms. Steam heat is piped to the air handling unit and a remote condensing unit mounted on the adjacent roof is piped to the unit to provide cooling. Preheat is also featured on the unit.

Musical Instruction Rooms:

Age- 8 Years

Expected remaining useful life- 20 Years

Rating- Satisfactory

Description: Heating, Cooling and Ventilation serving the music instruction rooms is ducted into the space and is served by an Air Handling Unit located in the Mechanical Room above the band and chorus rooms. Steam heat is piped to the air handling unit and a remote condensing unit mounted on the adjacent roof is piped to the unit to provide cooling. Preheat is also featured on the unit.

Library:

Age- 47 Years

Expected remaining useful life- 5 Years

Rating- Satisfactory

Description: Heating, cooling and ventilation serving the Library is ducted into the space and is served by 4 Air Handling Unit located above the space. Hot water heat is piped to the units for its heat source and chilled water is piped to the unit to provide cooling. Supplementary heating is provided by perimeter radiation throughout.



ENGINEERS ARCHITECTS LAND SURVEYORS, PC
Airport Corporate Park, 100 Hunt Center
Horseheads, NY 14845-1019
P: 607-358-1000
F: 607-358-1800

Senior High School North

Electrical Description

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Emergency / Stand-by Power System:

Age- 7 years
Expected remaining useful life- 23 years
Rating- Satisfactory

Description: Building is backed-up via a Cummins diesel fuel back up generator. There are two Automatic Transfer Switches serving both Life Safety and Standby power loads, adhering to NFPA Level 1 design standards.

Exit Egress Path Signage

Age- 12 years
Expected remaining useful life- 3 years
Rating- Unsatisfactory

Description: Exit signage is comprised of both LED lit signage and unlit graphic adhesive stickers. The majority of the Exit fixtures are either unlit or very dim and do not clearly identify path of egress.

Interior Emergency Egress Lighting

Age- 7 to 12 years
Expected remaining useful life- 3 to 13 years
Rating- Satisfactory

Description: Places of assembly include battery backed-up wall packs, limited corridor fluorescent fixtures are connected to Life Safety backup circuits providing emergency lighting along path of egress within building corridors

Exterior Emergency Egress Lighting

Age- 1 year
Expected remaining useful life- 19 years
Rating- Unsatisfactory

Description: Exterior emergency lighting is limited to primary secured entrances constructed 2014-2015 school year. The remainder of exterior doors lack emergency lighting.

Fire Alarm Systems:

Age- 7 to 12 years
Expected remaining useful life- 13 to 9 years
Rating- Satisfactory

Description: The Fire Alarm system is a Notifier fully addressable system. Detection and notification devices appear to be adequate; although additional devices are required at various locations to comply with current life safety codes. The system also provides the code required shut down of mechanical equipment upon alarm activation.

General Lighting:

Age- 7 to 26 years
Expected remaining useful life- 13 to 3 years
Rating- Satisfactory

Description: The majority of the building's lighting consists of fluorescent T8 lamped fixtures containing electronic ballasts. Limited areas of the facility have obsolete T12 lamped fixtures with magnetic ballasts. Light fixtures in the mechanical rooms and storage areas do not have exposed lamp protection.

Electrical Service Entrance:

Age- 7 years
Expected remaining useful life- 43 years
Rating- Satisfactory

Description: 4800V, 3 phase, 4 wire, is fed underground to 15 KV, unit substation. Via 600A fused primary switch. Distribution is then distributed to other High Voltage Switchgear locations on campus. Arc Flash testing and labeling has not been done.

Electrical Power Distribution Panels:

Age- 47 to 1 years
Expected remaining useful life- 1 to 23 years
Rating- Satisfactory

Description: The electrical distribution panels vary from newer up to date panels to some older vintage original construction panels which have exceeded the end of their useful life. Arc Flash testing and labeling has not been done.

Wiring Devices

Age- 53 years
Expected remaining useful life- 1 year
Rating- Unsatisfactory

Description: The majority of the electrical wiring devices in the building date to the original construction and have exceeded their expected useful life. Several spaces in the building have inadequate receptacle coverage. Several classrooms have ceiling mounted projectors that connect to a receptacle above the ceiling or to extension cords which violates NEC code requirements.

Motor Starters:

Age- 25 years
Expected remaining useful life- 5 years
Rating- Satisfactory

Description: Large HP 3 phase motors throughout the facility are equipped with inefficient magnetic motor starters.



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Senior High School North

Technology Description

Data Network Infrastructure:

Age- 10-15 Years
Expected remaining useful life- 1-3 Years
Rating- Unsatisfactory

Description: High School North is an extension of the High School building and the closets within it's foot print are part of the high school south building's local area network. There are four data cabinet locations in this section of the building that connect to each other over OM1 multi-mode fiber and distribute data to classrooms using a mix of Cat5 & 5e twisted pair cabling. All of the locations are shared spaces and utilize some wall mounted racks. There is no air conditioning units in either space. The network switches are a mix of 10/100 & 10/100/1000 Mbps and mostly older than 5 years and are not stacked. There are some zoning issues in this section of the building as some runs must exceed the allowable 295' maximum distance.

Internet Services:

Age- NA
Expected remaining useful life- NA
Rating- Satisfactory

Description: Internet service is received through GST BOCES via the Southern Tier Network leased fiber.

Voice Systems:

Age- 10-15 Years
Expected remaining useful life- 1-3 Years
Rating- Unsatisfactory

Description: The existing phone system is a digital PBX solution that is no longer supported. It has voice mail and auto attendant features however lack of support makes these features vulnerable to downtime in the event of a hardware failure. The system is connected to the district wide system allowing dialing and call routing within district. Office locations have digital hand sets and all classroom phones are analog sets using Cat3.

Wireless Technologies:

Age- 5-7 Years

Expected remaining useful life- 3-5 Years

Rating- Unsatisfactory

Description: Currently there is a Cisco wireless-G & N solution witch consists of wireless access points that connect to a wireless controller. Most access points are deployed with external antennas and mounted in some classrooms. Not all instructional areas have reliable wireless coverage. Most access points in the north section of the building were 802.11g.

Paging Systems:

Age- 8 Years

Expected remaining useful life- 7 Years

Rating- Satisfactory

Description: The current paging system consists of a small Dukane interface in the main office with remote amplification. The speakers throughout the facility are connected via distributed cabling at cross connect locations.

Clock Systems:

Age- Undetermined

Expected remaining useful life- 7-10 Years

Rating- Satisfactory

Description: A Visiplex clock system serves all instructional, administrative and assembly spaces. The system is controlled by a master clock controller to synchronize the time.

Video Systems:

Age- 10+ Years

Expected remaining useful life- 1-3 Years

Rating- Unsatisfactory

Description: There is cable TV coaxial cable throughout the building. The backbone is distributed from the building entry point via Blonder Tongue amplifiers. There are TV connections and CRT Televisions in most classrooms. The district reports quality problems that a most likely due to signal strength and balance throughout the distribution system.

Classroom Technologies:

Age- Various Ages

Expected remaining useful life- 3 Years

Rating- Satisfactory

Description: Each room is equipped with a smart board with integrated audio. There is also a CRT monitor that utilizes the district's cable TV service.

Computer Labs:

Age- NA

Expected remaining useful life- 5-7 Years

Rating- Satisfactory

Description: High school North has computer labs available to the students along with several classroom workstations. The computer labs are connected to the LAN using the network cabinet within the room that distributes copper cabling to all the stations. There are approximately 32 current workstations within the lab.

Security Access Control System:

Age- 5-7 Years

Expected remaining useful life- 7-10 Years

Rating- Satisfactory

Description: High School North has a secured entrance was just constructed and will allow visitors to enter at the main office only, forcing them to sign in with personnel. This is a heavily used entrance due to the proximity to the auditorium and bus drop off. It utilizes intercoms at the exterior and controlled doors in the vestibule to control access. There is a panic button in the office that will lock exterior entrances and release fire doors in the building. Most heavily used entrances have access control however door contacts are not present at all exterior door locations.

Video Surveillance:

Age- Various Ages

Expected remaining useful life- 1-3 Years

Rating- Unsatisfactory

Description: There is currently an analog Pelco system installed with coverage at all entrances and select corridors however the district has begun to add megapixel IP cameras to the network and installing video recording server to replace the existing DVR that record the analog cameras. The IP camera upgrades were mostly based around the secured entrance areas. The district purchased some cameras and are rolling them out in phases. The new entrance included all new exterior and lobby cameras in that area of the building.



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Airport Corporate Park, 100 Hunt Center
Horseheads, NY 14845-1019
P: 607-358-1000
F: 607-358-1800

Senior High School North

Theatrical Equipment Description

General Building Information

Room Acoustics

Age- 7 years
Expected remaining useful life- 15+ years
Rating- Good

Description: The room's frequency response and reverberation time are good and include an electronic acoustics system to enhance room perceptions.

Audio System

Age- 7 years
Expected remaining useful life- 8 years
Rating- Good

Description: The system is well-designed and performs well.

Lighting System

Age- 7 years
Expected remaining useful life- 13 years
Rating- Good

Description: The lighting system is good, but lacks the latest in color-changing LED technology.

Houselighting System

Age- 7 years
Expected remaining useful life- 5 years
Rating- Good

Description: We recommend upgrades to LED fixtures for improved energy savings and an increase in expected overall service life.

Stage Rigging System

Age- 7 years
Expected remaining useful life- 20+ years
Rating- Good

Description: The stage rigging system is good and needs no enhancements.

Stage Rigging System - Curtains

Age- 7 years
Expected remaining useful life- 13 years
Rating- Good

Description: The curtains are in great condition and do not need upgrades or replacements.

Video Presentation System

Age- 7 years
Expected remaining useful life- 5 years max
Rating- Good






Description: The video system still has valuable life left in it; however, it does not adhere to the latest format and HD standards. As such, it should be upgraded.

RECOMMENDATIONS



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 F: 607-358-1800

Senior High School North

In Project	Category	Year	Priority	Site Recommendations	Estimate	Thumbnails (if any)
	GSR			<u>IHN-GENERAL SITE RENOVATIONS</u> GENERAL SITE RENOVATIONS		
Y	GSR	1	3	HN-L1 Property Line Fencing General property line fencing throughout property is in poor condition and should be replaced. Consider sleeving existing posts and installing new vinyl clad fabric to reduce costs.	\$105,000	
Y	GSR	1	1	HN-L2 Asphalt Parking Asphalt parking lots are in poor condition and should be replaced to a full depth including subbase throughout HS lots. Circulation patterns are inefficient and could result in additional parking with reduced asphalt square footage. Add formal walks at student access points for safety.	\$670,000	
Y	GSR	1	3	HN-L3 Upgrade Loading Dock Loading dock is in poor condition and should be replaced with updated railing and sealed for longevity. Replace truck bumpers on two sides.	\$32,000	
y	GSR	1	2	HN-L4 Asphalt Parking - Eliminate Obstacles Asphalt Parking lots are in poor condition and should be replaced to a full depth including subbase throughout HS lots. Circulation patterns are inefficient and unsafe due to single loading of cars. Remove temporary storage units to increase parking. Remove parking adjacent to building for added security and safety.	\$528,000	
Y	GSR	1	3	HN-L5 Asphalt Pavement at North HS/Elem Asphalt parking lot is in poor condition and should be replaced to a full depth including subbase throughout HS lots. Add formal walks for student access to gymnasium for safety.	\$491,000	

Y GSR 1 3 **HN-L6 Add Handrails to Stair** **\$4,000**
 Stairs do not have handrail protection. Add handrails to center and right side stair descending.



Y GSR 1 2 **HN-L7 Upgrade Lighting** **\$100,000**
 Upgrade site lighting to LED fixtures. Estimated cost for 20 poles



Y GSR 1 m **HN-L8 Remove Damaged Vegetation** **\$1,500**
 Remove damaged tree. Tree will become a safety hazard and should be removed/replaced.



Y GSR 1 1 **HN-L9 Asphalt Parking at Student Lot** **\$375,000**
 Asphalt parking lot at student lot is in poor condition and should be replaced to a full depth including subbase.



Y GSR 1 3 **HN-L10 Update Entrance** **\$35,000**
 Entrance to North side of school is awkward and does not relate well to outdoor plaza area. Consider updating entrance for aesthetics. See architectural recommendations



Y GSR 1 3 **HN-L11 Property Line Fencing** **\$0**
 Property line fencing should be updated to match look of student plaza. Price included in HN-L1



GAF **II-HN-GENERAL ATHLETIC FACILITY RENOVATIONS**
RECOMMENDED RENOVATIONS TO UPDATE THE SITE TO MEET CURRENT STANDARDS AND NEEDS.

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Y GAF 2 1 **HN-L12 New/Relocated Stadium** **\$4,500,000**
 Current location of the stadium is limited in space due to adjacent wetland. Consider relocating stadium with new turf surface and 8 lane track in back of HS for improved access and parking. Relocate existing bleachers to new location. Relocate soccer/Lacrosse fields to stadium location.



Y GAF 2 1 **HN-L13 Baseball Field** **\$450,000**
Update backstop and baseball infield. Add irrigation to field. Orientation of field should be between north and north east from home plate through pitchers mound. Field favors outfielders not the batter. Consider new orientation for safety. Price includes new baseball perimeter fencing



N GAF 1 1 **HN-L14 Softball Field** **\$550,000**
Relocate softball field to middle school site.

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Y GAF 1 1 **HN-L15 Redundant Fencing** **\$0**
Relocation of stadium will eliminate need for redundant fencing.



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 Airport Corporate Park, 100 Hunt Center
 Horseheads, NY 14845-1019
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 F: 607-358-1800

Senior High School North

In Project	Category	Year	Priority	Architectural Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-HN-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE</i> <i>STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS),</i>		
Y	HS	1	3	HN-A1 Replace Doors that are Not Fire Rated and/or Handicapped Accessi Many corridor doors are aged and/or are not fire rated in accordance with current code requirements. Additionally, many of these doors lack operational door closers, and have old lock sets and door knobs that are not handicap accessible, and/or have non-impact resistant glass. These doors should be replaced with fire rated doors and frames as required by current code. Quantity: 116 single and 29 double rated doors	\$391,500	I M A G E
Y	HS	1	3	HN-A2 Replace Wire and Non Rated Glass in Door and Window Assemblie A recent project provided door and window assemblies throughout the building with wire glass at fire rated locations. Although the glass meets the fire rating requirement, it does not meet the impact safety requirements outlined in the current NYSED code. Replacing the glass with fire rated glass should be considered. Quantity: 100 SF	\$5,000	I M A G E
Y	HS	1	3	HN-A3 Non-Rated Corridor Walls There are many walls throughout the building with a metal wall system that is not fire rated as required by code. Replacing these walls and associated lockers to provide a proper fire rated wall is recommended. Quantity: 500 LF of fire rated corridor wall and 280 LF of corridor lockers	\$240,000	I M A G E
Y	HS	1	3	HN-A4 Replace Non-Impact Resistant Glass There are many display cases throughout the building that contain glass that is not meeting the current code. There are also some window assemblies (non-fire rated) that do not have impact safety glass installed. Replacing the glass with impact safety glass should be considered. Quantity: 20 display cases 640 SF 4 window assemblies 150 SF	\$20,000	I M A G E
Y	HS	1	3	HN-A5 Biology 101 This room requires a second means of egress based on square footage. Provide door in exterior wall to meet code.	\$8,000	I M A G E

Y HS 1 3 **HN-A6 Handrails and Guardrails** **\$20,000**

The existing handrails and guardrails in the existing stairs are not code compliant and should be replaced. Quantity: 5 Stairwells Additionally, handrails throughout the building need to be extended in order to be code compliant. Quantity: 32 LF

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Y HS 1 3 **HN-A7 Boiler Room Vestibule** **\$20,000**

The current doors leading from the corridor into the boiler room is not code compliant. Construct a fire rated vestibule and move and modify existing stair system as required by current building code. Quantity: 2 Doors

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Y HS 1 3 **HN-A8 Smoke Stop Curtain at Elevator** **\$10,000**

Provide a smoke stop curtain at the existing elevator first and second story.

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Y HS 1 3 **HN-A9 Corridor Coiling Doors** **\$4,500**

Current code does not allow for coiling doors to be located in corridors and existing ones should be removed. Quantity: 3 Locations

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Y HS 1 3 **HN-A10 Fire Rated Stairs** **\$15,000**

One set of stairs does not have the proper fire rated assembly enclosing it as required by code. It is suggested to build a fire rated partition on the first floor in order to comply with current code. Additionally, the access door leading to the crawl space should be replaced with a fire rated door.

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Y HS 1 3 **HN-A11 Investigate U-Shaped Roof Joists** **\$7,500**

There are a number of U-shaped steel joists present in the 1955, 1966, and 1968 areas of this building. The construction of the top chord of these joists allow for the collection of moisture and possible deterioration of the joists. Some minor corrosion but no significant deterioration was noted; however the deterioration is not always visible from below. A more in-depth investigation of the joists is recommended to determine if any deterioration is present.



Y HS 1 3 **HN-A12 Crack in Concrete Floor System** **\$2,000**

One set of stairs does not have the proper fire rated assembly enclosing it as required by code. It is suggested to build a fire rated partition on the first floor in order to comply with current code. Additionally, the access door leading to the crawl space should be replaced with a fire rated door.



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Y HS 1 3 **HN-A13 Auditorium Catwalk Fall Protection** **\$3,000**
 There is a fall protection system located at the catwalk over the Auditorium. The components of this system appear to be out dated and the system may not be adequate. If this system is still utilized/required further investigation should be done to determine if the fall protection is adequate.



ADA **II-HN-PHYSICALLY DISABLED ACCESS (ADA)**
AMERICANS WITH DISABILITIES ACT (ADA) COUNCIL OF AMERICAN BUILDING OFFICIALS / AMERICAN NATIONAL STANDARDS INSTITUTE (CABO / ANSI)

Y ADA 1 2 **HN-A14 Update Toilet Rooms to be Handicap Accessible** **\$750,000**
 Many toilet rooms are not handicap accessible due to the lack of clearances, grab bars, appropriate toilet and sink fixtures and/or lever style faucets. Some of these toilet rooms also do not have compliant ADA signage. Updating this toilet room also include all finishes and fixtures at the time of upgrade. Quantity: 10 toilet rooms

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Y ADA 2 1 **HN-A15 Update Locker Rooms to be Handicap Accessible** **\$537,500**
 Existing Locker Rooms are not handicap accessible due to the lack of clearances, grab bars, appropriate toilet and sink fixtures and/or lever style faucets. All finishes and lockers are worn and should be replaced. Updating these locker rooms in accordance with current code should be considered. Quantity: 4,300 SF

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Y ADA 1 3 **HN-A16 Update Drinking Fountains to be Handicap Accessible** **\$8,000**
 Several non-accessible drinking fountains exist throughout the building. These drinking fountains should be updated to satisfy current code. Quantity: 4 drinking fountains

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GBI **II-HN-GENERAL BUILDING RENOVATIONS-INTERIOR**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBI 1 2 **HN-A17 Replace Casework** **\$360,000**
 The existing storage and sink systems in classrooms are an assortment of aged units that are no longer functional or aesthetically pleasing or ADA compliant. This casework should be considered for replacement. Quantity: 800 LF

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Y	GBI	1	3	HN-A18 Renovate Gym	\$160,000	I M A G E
				Four basketball backboards should be considered for upgrade to fiberglass and the ceiling should be considered for replacement (Quantity: 7,000 SF). Additionally, the existing wall pads have reached the end of its useful life and should be considered for replacement (Quantity: 320 LF) and the movable partition should be replaced.		
Y	GBI	1	2	HN-A19 Renovate Pool	\$975,000	I M A G E
				Renovate entire space. Quantity: 7,800 SF		
Y	GBI	1	3	HN-A20 Expansion Joints	\$60,000	I M A G E
				Existing floor and wall expansion joints should be replaced throughout the building. Quantity: 100 LF		
Y	GBI	1	3	HN-A21 Stair Treads	\$200,000	I M A G E
				Existing stair treads are worn and should be replaced. Quantity: 400 LF		
Y	GBI	1	m	HN-A22 Door Infill's	\$1,500	I M A G E
				There are several locations in the building where the existing doors are no longer needed and are not fire rated. It is suggested that these doors should be removed and in filled to match existing construction. Quantity: 75 SF		
Y	GBI	1	2	HN-A23 Replace Acoustic Ceiling Tile	\$366,000	I M A G E
				Many spaces have 12"x12" acoustic ceiling tile that is worn and should be considered for replacement. Quantity: 56,175 SF		
Y	GBI	1	2	HN-A24 Replace Carpet	\$60,000	I M A G E
				Many spaces have carpet that is worn and should be considered for replacement. Quantity: 10,000 SF		
Y	GBI	1	1	HN-A25 Floor Shifting	\$120,000	I M A G E
				There are some classrooms that have a hump in the floor that seems to come from a trench location. Investigate and even floor prior to providing new floor finish. Quantity: 105, 108, 111, 112, 114		

Y	GBI	1	3	HN-A26	Replace Corridor Wood Wall Panels	\$30,000	I M A G E
					Some corridors have wood wall paneling that is worn and should be considered for replacement. Quantity: 3,000 SF		
Y	GBI	1	2	HN-A27	Replace VCT	\$277,650	I M A G E
					Many spaces have VCT that is worn and should be considered for replacement. Quantity: 46,275 SF		
Y	GBI	1	3	HN-A28	Music Rooms	\$24,000	I M A G E
					Acoustical wall treatments are worn and should be considered for replacement. Quantity: 1,600 SF		
Y	GBI	1	2	HN-A29	Replace Library Bookshelves	\$288,000	I M A G E
					The existing bookshelves in the Library are worn and should be considered for replacement. Quantity: 416 LF of tall bookshelves and 128 LF of half height bookshelves		
Y	GBI	1	2	HN-A30	Replace Aged Blackboards / Tack boards	\$56,000	I M A G E
					Several aged blackboard / tack board units exist throughout the building. These units should be considered to be replaced with new whiteboard (dry erase) / tack board units. Quantity:800 LF whiteboards / tack boards		
Y	GBI	1	2	HN-A31	Replace Aged Window Treatments	\$70,560	I M A G E
					Existing window treatments throughout the building should be considered for replacement. Quantity: 1,470 LF		
Y	GBI	1	2	HN-A32	Abate 9"x9" Vinyl Asbestos Floor Tile	\$32,000	I M A G E
					The 9"x9" vinyl asbestos floor tile is worn and should be considered for replacement. Quantity: 1,500 SF		
Y	GBI	1	2	HN-A33	Receiving Room	\$4,000	I M A G E
					The overhead door and the lift at the receiving room should be replaced for safety and better thermal performance.		

Y	GBI	1	3	HN-A34 Stair Floor Finish	\$12,000	
				Stair S3 requires the replacement of deteriorated terrazzo at the landing as well as deteriorated stair treads.		I M A G E
Y	GBI	1	m	HN-A35 Computer Desks	\$49,000	
				There are several rooms with existing computer desks that are worn and should be replaced. Quantity: 140 LF		I M A G E
Y	GBI	1	3	HN-A36 UV Shelving	\$320,000	
				There are several rooms with existing UV shelving that is worn and should be replaced. Quantity: 800 LF		I M A G E
Y	GBI	1	m	HN-A37 Minor Masonry Wall Cracking	\$1,000	
				Masonry walls in Room 230 have a small vertical separation of the joint between the exterior walls. Provide elastomeric caulk to seal the joints at these locations. Quantity: 20LF		I M A G E
Y	GBI	1	3	HN-A38 Lack of Control Joints	\$5,000	
				Wall cracking was observed at the Wrestling and Weight Rooms due to a lack of masonry control joints. Recommend new masonry control joints be cut into these walls at the corners of door and window openings at 5' off of the corners and at a 15' maximum spacing.		I M A G E
Y	GBI	1	m	HN-A39 Access Ladder Anchor	\$300	
				The crawl space access ladder located at the Stage is missing an anchor. The appropriate Hilti concrete anchor should be installed.		I M A G E
Y	GBI	1	m	HN-A40 Metal Deck Corrosion	\$0	
				The existing floor deck in the prep room between Rm 118 and Rm 120 is rusted. The corrosion is isolated and should be monitored to make sure it is not progressing.		I M A G E
Y	GBI	1	2	HN-A41 Nurses Office	\$58,500	
				Existing Nurse area is antiquated and should be renovated. Approx. quantity: 900 SF		I M A G E



Y GBI 1 2 **HN-A42 Science Classrooms** **\$266,500**
 Several science classrooms are currently undersized and should be relocated to rooms that are appropriately sized. Renovation of several rooms is required for reconfiguration. Approx. quantity: 4,100 SF

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Y GBI 1 2 **HN-A43 Home & Careers** **\$139,750**
 The existing home & careers classroom should be reconfigured to maximize function. Approx. quantity: 2,150 SF

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Y GBI 1 2 **HN-A44 Cafeteria and Kitchen** **\$1,477,500**
 The existing cafeteria and kitchen should be renovated. Additional space is required to reduce the number of lunch periods and an addition is suggested in the existing courtyard. Also, restrooms should be provided to appropriately accommodate the number of students in the cafeteria. Approx. quantity of addition: 1,100 SF Approx. quantity of renovation: 12,575 SF

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GBE **IV-HN-GENERAL BUILDING RENOVATIONS-EXTERIOR**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBE 1 2 **HN-A45 Replace Roof** **\$356,280**
 The portions of the roof system are still under warranty but there are several issues that should be fixed or replaced. Approximately 36,460 SF roof is out of warranty and should be considered for replacement. The roof membrane is pulling off of vertical walls and should be replaced to prevent water penetration. There is also about 100 SF of delaminated coverboard and insulation that should be replaced. In addition that is about 450 SF of ponding that should be replaced. with added roof



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Y GBE 1 3 **HN-A46 Replace/Provide Roof Ladders/Stairs** **\$8,000**
 Ladders currently on the roof need to be cleaned and painted. Two ladders need to be added to access high roofs. Two sets of mounted stairs should be added to get area to area.



Y GBE 1 3 **HN-A47 Provide Cages for Skylights** **\$6,000**
 Four skylights near the hallway that connects the North and South High School are in need of protective metal caging.



Y GBE 1 3 **HN-A48 Replace Louvers** **\$3,600**
 Many louvers around the building have reached the end of their useful life and should be replaced. Quantity: (24) louvers.



Y GBE 1 2 **HN-A49 Replace Deteriorated Exterior Doors** **\$44,000**
 Several exterior doors are deteriorated and should be replaced. Quantity: 7 double and 3 single doors

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Y GBE 1 3 **HN-A50 Update Exterior Railings to be ADA Compliant** **\$4,000**
 The exterior railing by the loading dock is deteriorated and should be replaced. Additionally, the railings by the connecting hallway is not ADA compliant as they lack the required extension as outlined by current code and should be replaced and concrete should be patched. The stairs and ramp at the connecting hallway also needs new caulk around the perimeter.



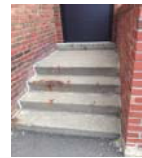
Y GBE 1 3 **HN-A51 Caulk and Paint Flashing** **\$12,000**
 The flashing around the entire building is discolored and should be cleaned and painted. The caulk under it is also deteriorating and should be replaced.



Y GBE 1 2 **HN-A52 Repair Main Entrance Stairs** **\$1,500**
 The stairs at the main entrance need to be recaulked as well as repair to the concrete curb of the stairs and ramp.



Y GBE 1 2 **HN-A53 Replace Stairs at Library** **\$5,000**
 The stairs outside the library are deteriorated and should be replaced. The slab, concrete stairs, and railing should all be replaced. Quantity: (2) complete stairs.



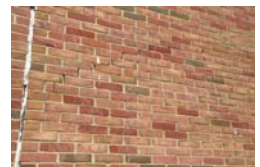
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Y GBE 1 2 **HN-A54 Replace Exterior Doors/Frames** **\$8,000**
 Several exterior doors/frames should be considered for replacement due to corrosion and deterioration. Quantity: (1) double door and (1) single door.



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Y GBE 1 3 **HN-A55 Stepped Cracking** **\$2,400**
 There is stepped cracking near some of the expansion joints. The joints should be recaulked and the bricks replaced and repointed.



Y GBE 1 3 **HN-A56 Replace Expansion Joints** **\$3,600**
 The caulk in most expansion joints around the building is old and deteriorated and should be replaced.



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Y GBE 1 3 **HN-A57 Steel Column Base Corrosion** **\$3,000**

The exterior steel column at the pool entrance/loading dock is showing signs of rusting and deterioration at the base. It is recommended that the column be cleaned, and repainted with three coats of exterior epoxy paint. Canopy supports near the Cafeteria should also be cleaned and receive three coats of paint.



Y GBE 1 m **HN-A58 Trim Vegetation Around the Building** **\$800**

The vegetation in many spots around the building is too close to the exterior façade. Trim all vegetation so that there is at least a foot between wall and plants.



Y GBE 1 3 **HN-A59 Repair Stairs and Repaint Handrails** **\$3,000**

For stairs that are deteriorating, clean all loose pieces of concrete and patch. Paint corroding handrails with several coats of paint. Locations: (2) stairs outside of the Cafeteria



Y GBE 1 3 **HN-A60 Secure the Loading Dock Area** **\$12,000**

A corridor has an exit in the Loading Dock, therefore the exit should be separate exit passageway from the Loading Dock. In addition, recommend adding a post and chain guardrail at the Loading Dock as well as replacing the rubber bumpers.



Y GBE 1 3 **HN-A61 Recaulk Metal Flashing and Window Sills** **\$8,000**

The caulk on both metal flashing and window sills around the building is deteriorated and should be replaced.



Y GBE 1 m **HN-A62 Chipped Concrete** **\$1,200**

There is chipped concrete near the science rooms that should be cleaned and patched.

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Y GBE 1 m **HN-A63 Brick Replacement** **\$3,000**

Outside of Classroom 102 there is a failure in the brick at the second floor level. Brick in this area should be removed and replaced.

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Y GBE 1 2 **HN-A64 Repair Corroded Metal Window System** **\$15,000**

The exterior Library walls are primarily a metal wall system that is corroding and should be cleaned and painted to prevent future corrosion.



Y GBE 1 2 **HN-A65 Replace Fascia and Soffit** **\$1,500**
The fascia and soffit are failing in several areas around the building. Both should be removed and replaced.

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Y GBE 1 2 **HN-A66 Replace Overhead Doors** **\$8,000**
Two overhead doors are deteriorated and have reached the end of their useful life and should be replaced.



Y GBE 1 m **HN-A67 Remove/Replace Metal Mesh Tube** **\$400**
Outside classroom 109 there is a metal mesh tube at the second story that should be removed. Replacement if needed.



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ENGINEERS ARCHITECTS LAND SURVEYORS, PC
 Airport Corporate Park, 100 Hunt Center
 Horseheads, NY 14845-1019
 P: 607-358-1000
 F: 607-358-1800

Senior High School North

In Project	Category	Year	Priority	Mechanical Recommendations	Estimate	Thumbnails (if any)
HS				<p><u>I-HN-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i></p>		
N	HS	1	1	<p>HN-M1 Upgrade Ventilation System in Chemical Storage Closet The storage space located between Rooms 108 and 112 where equipment and chemicals are stored exhibits a strong chemical smell. The ventilation of this space should be upgraded and/or repaired if faulty. Ventilation should be improved in accordance with the appropriate code.</p>	\$25,000	I M A G E
Y	HS	1	2	<p>HN-M2 Replace Emergency Gas Valves Many science instruction rooms featuring gas nozzles are equipped with emergency gas valves which are inoperable and unsafe. Furthermore, these gas valves allow for easy turn-on from the "closed" position by any persons at anytime. Replacement of all gas valves with keyed units to both repair and improve the safety of the system is recommended.</p>	\$35,000	I M A G E
Y	HS	1	2	<p>HN-M3 Heating and Ventilation in Classroom Wing Toilet Rooms Classroom wing toilet rooms feature inadequate heat and no make-up air. Install a ducted supply and return system to provide adequate heat and ventilation in accordance with code.</p>	\$50,000	I M A G E
Y	HS	2	1	<p>HN-M4 Upgrade Emergency Drench Showers The emergency drench showers located throughout the building are not paired with a floor drain to evacuate water. Furthermore, each unit features a spring handle fixture for its operation. An adequate floor drain should be provided in close proximity to each drench shower, and a proper "pull-down" handle should be fitted to improve safety and functionality.</p>	\$65,000	I M A G E
Y	HS	2	1	<p>HN-M5 Improve Kitchen Ventilation and Provide MUA Hood There is currently not enough supply air for ventilation and comfort levels in the kitchen. The oven hoods should be replaced with new units featuring dedicated make up air supply serviced by a roof top unit. Furthermore, additional conditioned supply air should be ducted to the space to improve temperature control and comfort level.</p>	\$45,000	I M A G E

GBI **II-HN-GENERAL BUILDING RENOVATIONS**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBI 2 1 **HN-M6 Replace Gym Air Handling Unit** **\$100,000**

The air handling unit currently serving the gym is a built-up unit that is past its service life and no longer an acceptable construction. It is recommended that this be replaced by a packaged unit of superior construction and performance.

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Y GBI 1 1 **HN-M7 Boiler and Hydronic System Replacement** **\$2,750,000**

The current building heating system is mixture of piped steam and hydronic, all of which is heated by two cast iron steam boilers. These boilers have surpassed their intended service life and operate with an outdated, overcomplicated, and inefficient form of heating. It is recommended these boilers be replaced with new, high efficiency hot water boilers, and all associated piping and terminal end units be replaced with a hot water hydronic system and compatible components.



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Y GBI 1 1 **HN-M8 Replace pneumatic controls with DDC** **\$0**

The existing pneumatic HVAC controls system is outdated, difficult to manage, and requires constant maintenance. Replace of this system with full DDC capability at all central and terminal equipment is recommended.

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Y GBI 1 2 **HN-M9 Replace Library Air Handling Units** **\$60,000**

The 4 air handling units serving the Library are heated by steam and are beyond their useful service life. Replacement with new, hot water units is recommended.

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Y GBI 1 2 **HN-M10 Replace Office Suite Air Handling Units** **\$30,000**

The 2 air handling units serving the Library are heated by steam and are beyond their useful service life. Replacement with new, hot water units is recommended.

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Y GBI 1 2 **HN-M11 Replace Cafeteria Air Handling Unit** **\$15,000**

The air handling unit serving the Library are heated by steam and are beyond their useful service life. Replacement with new, hot water units is recommended.

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Y GBI 1 m **HN-M12 Use of Proper Filter in Auditorium Air Handling Unit** **\$0**

At the time of our fieldwork for the BCS report, 1 row of filters inside the air handling unit which serves the auditorium had been replaced with a piece of sheet metal of similar size. For this unit to run as intended, all filter racks should feature the proper sized filter and filter element.

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Y GBI 1 2 **HN-M13 Ceiling leak in Chemical Storage Closet** **\$2,500**

A possibly HVAC related ceiling leak exists in the ceiling of the storage space located between Rooms 108 and 112. The cause of this leak should be determined and the cause should be rectified.

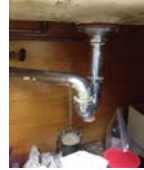
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Y GBI 1 3 **HN-M14 Firecaulking of Hot Water Supply Penetration** **\$30,000**
The penetration of the hot water supply piping in the music wing store room features inadequate firecaulking. Additional firecaulking and proper installation is suggested.



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Y GBI 1 m **HN-M15 Corroded P-Trap Room 204** **\$1,000**
The sanitary line serving the sink in Room 204 is currently fitted with a corroded p-trap. To prevent future problems which could effect the life and usefulness of the sink, a new p-trap and associated hardware should be installed.



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Y GBI 1 2 **HN-M16 Foot Controls for Kitchen Sink** **\$500**
Replace hand controls serving the hand wash sink in the kitchen area with floor pedals.

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Y GBI 1 m **HN-M17 Damaged Cabinet Heater Cover** **\$3,500**
The cabinet heater located in the 2nd floor of the wing connecting the North and South buildings has a badly damaged cover. To improve the safety and functionality of the unit, this cover should be replaced or repaired.



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Y GBI 1 2 **HN-M18 Upgrade Plumbing Fixtures to Touch-Free** **\$25,000**
Touch-free plumbing fixtures are much more sanitary and waste less resources. Replace all fixtures in public bathrooms with touch-free units





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ENGINEERS ARCHITECTS LAND SURVEYORS, PC
 Airport Corporate Park, 100 Hunt Center
 Horseheads, NY 14845-1019
 P: 607-358-1000
 F: 607-358-1800

Senior High School North

In Project	Category	Year	Priority	Electrical Recommendations	Estimate	Thumbnails (if any)
	HS			<p><u>I-HN-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i></p>		
Y	HS	1	1	<p>HN-E1 Exit Egress Signage Replace dim and non-working Exit fixtures that violate current Life Safety code requirements. Replace with new energy efficient LED fixtures and add additional fixtures as required to meet life safety code standards. (estimate assumes 30 fixtures)</p>	\$6,000	I M A G E
Y	HS	1	m	<p>HN-E2 GFCI Receptacles Several areas have receptacles within five feet of a water source that are not GFCI protected. Replace all receptacles with GFI protection in these areas. (estimate assumes 10 locations)</p>	\$1,500	
Y	HS	1	1	<p>HN-E3 Arc Flash Labeling The current electrical system has not been Arc Flash rated and labeled in accordance with NEC 70E code. Provide testing and proper labeling to meet NEC code requirements.</p>	\$24,000	 I M A G E
Y	HS	1	1	<p>HN-E4 Fire Alarm Notification Audio / Visual Devices Provide additional Fire Alarm Audio / Video notification devices in occupied spaces to comply with current NFPA requirements. (estimate assumes 15 locations)</p>	\$3,000	I M A G E
Y	HS	1	1	<p>HN-E5 Exterior Emergency Egress Lighting Provide battery backup emergency egress light fixtures at each exterior egress location to comply with current life safety code requirements. (estimate assumes 25 locations)</p>	\$8,750	I M A G E

GBI **II-HN-GENERAL BUILDING RENOVATIONS-INTERIOR**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBI 1 1 **HN-E6 T12 Lighting Upgrades** **\$1,400**
 Portions of the building are lit using obsolete T12 lamped fixtures with obsolete magnetic ballasts. Replace fixtures with new LED lit fixtures for increased energy and maintenance savings. Reuse existing wiring and controls

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Y GBI 1 3 **HN-E7 T8 Lighting Upgrades** **\$905,000**
 In areas lit with T8 lamped fixtures with electronic ballasts. Replace T8 lamped fixtures with new LED fixtures for reduced energy usage and reduced maintenance costs. Reuse existing wiring and controls.



Y GBI 1 1 **HN-E8 Incandescent Lighting Upgrades** **\$1,200**
 Portions of the building are lit using obsolete incandescent lamped fixtures. Replace incandescent lamped fixtures with new LED lit fixtures for reduced energy usage and reduced maintenance costs. Reuse existing wiring and controls



Y GBI 1 3 **HN-E9 Occupancy Sensors** **\$40,000**
 Provide Occupancy sensors in all areas to comply with NYS energy code requirements and for increased energy savings. (estimate assumes 80 locations)

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Y GBI 1 3 **HN-E10 Daylight Harvesting Sensors** **\$45,000**
 Provide Daylight Harvesting sensors in all areas with daylight to comply with NYS energy code requirements and for increased energy savings. (estimate assumes 60 locations)

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Y GBI 1 2 **HN-E11 Power Distribution Panels** **\$40,000**
 Several power distribution panels have exceeded the end of their expected life. Replace panels and feeders with new power distribution panels. (estimate assumes 8 panels)



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Y GBI 1 3 **HN-E12 Ceiling Mount Projector Power** **\$32,000**
 Classrooms with ceiling mount projectors have been identified as having non-code connections. The receptacles are mounted above the enclosed ceiling which violates NEC code. Relocate all above ceiling receptacles into the ceiling grid panel. (estimate assumes 32 devices and includes cost of ceiling panel)



Y GBI 1 3 **HN-E13 Provide Additional Power Outlets** **\$10,000**
 Provide additional receptacles and circuitry in various locations to discourage the use of extension cords and power strips.

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GBE **II-HN-GENERAL BUILDING RENOVATIONS-EXTERIOR**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBE 1 2 **HN-E14 Replace Exterior Wall Mount Fixtures** **\$4,500**
 Replace the exterior HID and CFL lamped wall mount fixtures with new LED type fixtures for increased energy savings and reduced maintenance costs. (estimate assumes 10 locations)

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Y GBE 1 3 **HN-E15 Replace Canopy Fixtures** **\$13,500**
 Replace the existing CFL lamped canopy fixtures with new LED type fixtures which will reduce energy usage and reduce maintenance costs. (estimate assumes 30 fixtures)

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 Airport Corporate Park, 100 Hunt Center
 Horseheads, NY 14845-1019
 P: 607-358-1000
 F: 607-358-1800

Senior High School North

In Project	Category	Year	Priority	Technology Recommendations	Estimate	Thumbnails (if any)
	SBI			<u>I-HN-SMART SCHOOLS BOND INVESTMENT</u> SMART SCHOOLS BOND INVESTMENT PLAN		
Y	SBI	1	1	HN-T1 Network Data Closet Improvements There are two existing network rooms in this area of the building. One is located in a office mail room and should be isolated by relocating to an adjacent secured room. CER E is located in a secured space but because of distances for camera runs on the exterior of the building, may need to be relocated to a more centralized section of the building. Closets need to be secured, properly cooled & grounded for PoE switches as well as properly powered to prevent outages. Improvements should also include re-cabling where required, a new 10G fiber optic backbone, new patch cables and wire management.	\$206,000	I M A G E
Y	SBI	1	1	HN-T2 Network Electronics Upgrade The network electronics should be upgraded and reconfigured to maximize bandwidth to the end user. The switches should be capable of 10 Gbps connection to the network backbone and share at least 20 Gbps with the other switches in the data room. They should also be sized with proper power supplies so that PoE+ devices can be powered via the switch.	\$50,000	I M A G E
Y	SBI	1	1	HN-T3 Security Video Surveillance The district has begun to phase out the existing analog cameras and DVRs but a complete replacement of the DVR with video recording servers will provide the district with a single, simplified video management system that is versatile and easily expandable. The district has purchased some of the equipment to continue the process however labor, cabling and some additional equipment is needed. The district should focus on corridor, stairwell, entrance and parking lot coverage.	\$39,000	I M A G E
Y	SBI	1	1	HN-T4 Upgrade Network Data Cabling The existing building data cabling is in unsatisfactory condition in some areas of this section of the building. Both data rooms are potentially being relocated which would require recabling, at which point this issue will be addressed for this section of the high school. The recommendation is to reduce classroom data outlets as wireless will become widely used. Classrooms would receive four data drops each.	\$230,000	I M A G E
Y	SBI	1	1	HN-T5 Wireless Network Infrastructure To account for more widespread use of wireless devices and the need for a flexible wireless network to support student used devices, the wireless network should be upgraded to the most current wireless-AC standard and expand coverage to all classrooms. Capacity should also be considered so the district has the ability to deploy 1-2-3 devices per student.	\$65,000	I M A G E
Y	SBI	1	1	HN-T6 Voice over IP Phone System Included in High School South		I M

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II-HN-GENERAL BUILDING RENOVATIONS-INTERIOR

RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBI 1 1

HN-T7 IP Video Distribution to Replace Cable Infrastructure

\$20,000

The current system is very old and the low and high band channels provide poor viewing quality. The district should look to upgrade this system to an IP based system allowing content and channels to be broadcast over the Local Area Network. This would provide teachers and students with flexible cable & content TV system accessible anywhere.

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ENGINEERS ARCHITECTS LAND SURVEYORS, PC
 Airport Corporate Park, 100 Hunt Center
 Horseheads, NY 14845-1019
 P: 607-358-1000
 F: 607-358-1800

Senior High School North

In Project	Category	Year	Priority	Food Service Recommendations	Estimate	Thumbnails (if any)
HS				<u>I-HN-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i>		
Y	HS	2	1	HN-FS1 Replace Exhaust Hood Filters Island Exhaust hood mesh filters do not comply with NFPA code 96. Recommend replacing with louvered style filters.	\$1,000	I M A G E
Y	HS	2	1	HN-FS2 Replace Warming Cabinets Two (2) Metro warming cabinets are over 22 years old. Recommend replacing within the next 1-2 years with a new energy star rated mobile warming cabinet.	\$10,000	I M A G E
Y	HS	2	1	HN-FS3 Replace Slicer Stand Berkel slicer is placed on a wooden stand that does not comply with DOH requirements. Recommend replacing the stand with a mobile stainless steel stand within the next 1-2 years.	\$2,500	I M A G E
Y	HS	2	1	HN-FS4 Replace Serving Lines Two (2) custom Serving lines are over 30 years old and in need of replacement (no cold food storage, built in milk cooler does not appear to be functional, hot food wells old is inefficient, etc...). Recommend replacing the entire serving line within the next 3-5 years with a new modular 4 well hot food unit, refrigerated cold food merchandiser, ice cream unit, free standing milk dispenser and cashiers station.	\$120,000	I M A G E
Y	HS	2	1	HN-FS5 Replace Dishwasher Hobart flight type dishwasher is excessive for the foodservice operation (consumes 6 GPM of water, 23KW tank heat & 27KW booster). The elements and interior have heavy scale build up. The dishwasher appears to be over 20 years old. Recommend reconfiguring the dishroom and replacing the unit with a smaller conveyor style dishwasher with energy savings heat reclaim system reducing the electric footprint up to 50% and reduce the dishroom size within the next 2-4 years. (\$50,000 – includes new dishtables)	\$50,000	I M A G E

Y	HS	2	1	HN-FS6	Replace Kettles	\$30,000	I M A G E
<p>Two (2) Groen kettles are over 40 years old, inefficient and in poor condition. Recommend replacing the kettles within the next 2-4 years.</p>							
Y	HS	2	1	HN-FS7	Replace Oven	\$18,000	I M A G E
<p>Market Forge single deck baking oven (Electric) is in poor condition. Recommend replacing the oven with a Gas fired Combination Oven or double deck Convection oven within the next 2-3 years to reduce the electric demand.</p>							
Y	HS	2	1	HN-FS8	Replace Walk-In Cooler/Freezer	\$45,000	I M A G E
<p>Built-in walk-in Cooler/Freezer is over 40 years old (doors were locked and was not able to observe the interior of the units). Recommend replacing the walk-ins with a unit that is constructed of insulated panels and energy efficient refrigeration system within 3-5 years. Verify existing refrigeration system is not water cooled.</p>							
Y	HS	2	1	HN-FS9	Renovate Kitchen	\$80,000	I M A G E
<p>We recommend minor renovation of the entire kitchen/servery within the next 5-7 years to allow staff greater flexibility with food offerings and food flow. Add an additional \$80,000 for foodservice replacement items related to a kitchen renovation, i.e. paintleg duct, sinks, worktables, mop sink, hand sink, etc...</p>							



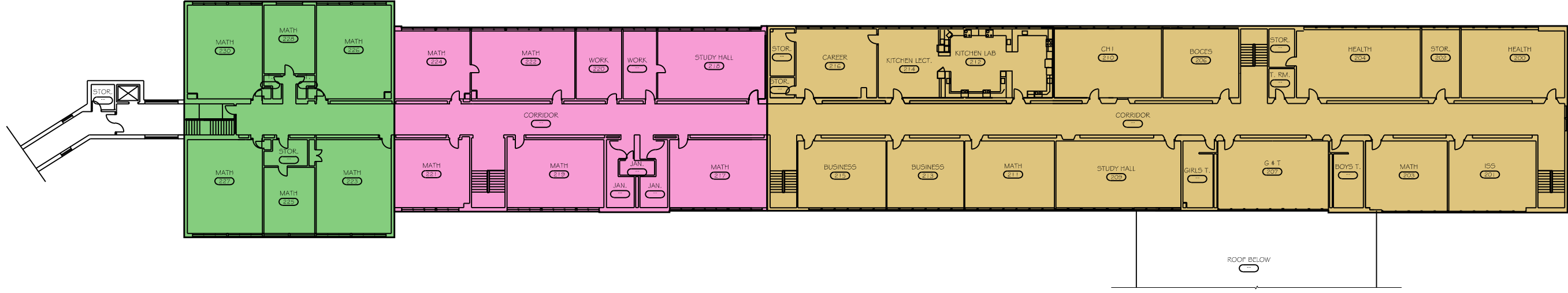
ENGINEERS ARCHITECTS LAND SURVEYORS, PC
 Airport Corporate Park, 100 Hunt Center
 Horseheads, NY 14845-1019
 P: 607-358-1000
 F: 607-358-1800

Senior High School North

In Project	Category	Year	Priority	AutoNum	Theatrical Recommendations	Estimate	Thumbnails (if any)
HS				I	<u>I-HN-HEALTH AND SAFETY</u> BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS		
Y	HS	1	1	1	HN-TH1 Room Acoustics The acoustics in this space are good and work well.	\$0	I M A G E
Y	HS	1	1	2	HN-TH2 Audio System The audio system in this space is good, provides even coverage and incorporates the latest technology.	\$0	I M A G E
Y	HS	1	1	3	HN-TH3 Lighting System The lighting system in this space is good, provides good flexibility and coverage; however, it does not incorporate the latest technology in fixtures (color mixing LED's). Lower budget includes general use LED color-changing wash fixtures. Upper budget includes additional LED wash fixtures, LED borderlight style fixtures and some ellipsoidal LED fixtures as well as additions to the DMX distribution system.	\$115,000	I M A G E
Y	HS	1	1	4	HN-TH4 Houselighting System The existing quartz houselighting system is good; however, upgrades could be made to convert the existing system to a completely LED based system, thus negating any future lamp changes and extending the overall life cycle of the system. Budget includes white-only LED fixtures and the additional low voltage control wiring needed.	\$40,000	I M A G E
Y	HS	1	1	5	HN-TH5 Stage Rigging System The stage riggin system is modern, recently replaced and displays no know safety hazards.	\$0	I M A G E
Y	HS	1	1	6	HN-TH6 Stage Rigging System - Improvements The stage rigging system is modern, recently replaced and well installed.	\$0	I M A G E
y	HS	1	1	7	HN-TH7 Stage Rigging System - Curtains The curtains are all in good condition and display no signs of damage or abuse.	\$0	I M A G E
Y	HS	1	1	8	HN-TH8 Video Presentation System Upgrades to this system would include updating the existing control system as well changing the video projector and screen to the new 16:9 HD format. Budget includes a new high definition digital control system, high output 16:9 projector, motorized 16:9 screen, Blu-Ray player, input cards, wireless touchscreen controls and all cabling.	\$75,000	I M A G E

S.E.D. BUILDING CONDITION SURVEY

KEY PLANS



KEY

- 1955
- 1966
- 1968



ENGINEERS

HIGH SCHOOL NORTH

SECOND FLOOR HORSEHEADS CENTRAL SCHOOL DISTRICT

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ARCHITECTS

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SYSTEMS DESCRIPTIONS



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F: 607-358-1800

Senior High School South

Mechanical Description

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Boilers:

Age- 2 Years

Expected remaining useful life- 25 Years

Rating- Satisfactory

Description: 3 Aerco Benchmark 3000 hot water boilers produce hot water for the south wing of the highschool at a combined capacity of 9 million Btuh. This hot water is pumped throughout the building to serve terminal equipment.

Domestic Water Systems:

Age- 50 Years

Expected remaining useful life- 5 Years

Rating- Satisfactory

Description: The water supply is municipal.

Domestic Hot Water:

Age- 2 Years

Expected remaining useful life- 15 Years

Rating- Satisfactory

Description: 1 gas fired hot water heater provides heat the domestic hot water for the school.

Sanitary and Storm Systems:

Age- 50 Years

Expected remaining useful life- 5 Years

Rating- Satisfactory

Description: The sanitary waste from the school empties to municipal systems.

Classroom Ventilation/Heat:

Age- 12

Expected remaining useful life- 13

Rating- Satisfactory

Description: Most classrooms all have Trane unit ventilators installed in 2003. Exhaust and relief air is ducted through the opposite wall into the corridor ceiling. Other classrooms have a ceiling mounted fan coil unit also installed in 2003. Venting of relief and exhaust air is similiar.

Administrative Ventilation/Heat

Age- Curriculum Office Suite: AHU 12 Years, Distribution and VAV boxes 28 Years

Main Office and Business Office Suite: 28 Years

Expected remaining useful life-

Rating-

Description: A majority of office and preparatory spaces are served by packaged roof top units that provide heating, cooling, and proper ventilation. Perimeter radiation supplements these systems. Other administrative spaces receive heat from ducted fan coil units, and cool air from split DX AC systems. Again, Perimeter radiation supplements these systems.

Gymnasium:

Age- 50 Years

Expected remaining useful life- 5 Years

Rating- Unsatisfactory

Description: Two air handlers located in the fan room above the corridor adjacent to the gym serve the gymnasium. Supply and return airstreams are ducted to these units, and outside make-up air is introduced as well. Transfer louvers relieve air from the gymnasium into the men's locker room for heated supply and ventilation requirements. A fan coil unit provides heat to the women's locker room and there is no make-up air supplied to properly ventilate the space.

Large Group Instruction

Age- 15 Years

Expected remaining useful life- 15 Years

Rating- Satisfactory

Description: A large, Trane air handling unit in the fan room above the corridor adjacent to the space serves the 3 Large Group Instruction areas. Heated or cooled supply air as well as exhaust is ducted to and from the space.



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Senior High School South

Electrical Description

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Emergency / Stand-by Power System:

Age- 7 years
Expected remaining useful life- 23 years
Rating- Satisfactory

Description: Building is backed-up via a Cummins diesel fuel generator. There are two separate automatic transfer switches serving both life safety and standby power loads, adhering to NFPA Level 1 design standards.

Exit Egress Path Signage

Age- 12 years
Expected remaining useful life- 3 years
Rating- Unsatisfactory

Description: Exit signage is comprised of both LED lit signage and unlit graphic adhesive stickers. The majority of the Exit fixtures are either non-working or dimly lit and do not clearly identify path of egress.

Interior Emergency Egress Lighting

Age- 7 to 12 years
Expected remaining useful life- 3 to 13 years
Rating- Satisfactory

Description: Places of assembly include battery backed-up wall packs, limited corridor fluorescent fixtures are connected to life safety power circuits providing emergency lighting along path of egress from within building corridors.

Exterior Emergency Egress Lighting

Age- 1 year
Expected remaining useful life- 19 years
Rating- Unsatisfactory

Description: Exterior emergency lighting is limited to primary secured entrances constructed 2014-2015 school year. The remainder of exterior doors lack emergency lighting.

Fire Alarm Systems:

Age- 7 to 12 years
Expected remaining useful life- 13 to 9 years
Rating- Satisfactory

Description: The Fire Alarm system is a Notifier addressable system. Detection and notification devices appear to be adequate; although additional devices are required at various locations to comply with current life safety codes. The system also provides the code required shut down of mechanical equipment upon alarm activation.

General Lighting:

Age- 7 to 26 years
Expected remaining useful life- 13 to 3 years
Rating- Satisfactory

Description: The majority of building's lighting consists of fluorescent T8 lamped fixtures containing electronic ballasts. Limited areas of the facility still have obsolete T12 lamped fixtures with magnetic ballasts.

Electrical Service Entrance

Age- 7 years
Expected remaining useful life- 43 years
Rating- Satisfactory

Description: Electrical service is fed underground to a pad mount 4800V to 120/208V 500KVA transformer. The secondary conductors enter the building underground into the High School North main electric room, connecting to a 2500A Fused Switch, 120/208V, three phase, four wire.

Electrical Power Distribution Panels

Age- 47 to 7 years
Expected remaining useful life- 1 to 23 years
Rating- Satisfactory

Description: The electrical distribution panels vary from newer up to date panels to some older vintage original construction panels which have exceeded the end of their useful life. The building's power distribution equipment does not comply with current NEC 70E code requirements for testing and labeling of Arc Flash ratings.

Wiring Devices

Age- 51 years
Expected remaining useful life- 1 year
Rating- Unsatisfactory

Description: The majority of the original construction installed wiring devices have exceeded their expected useful life. Wiring device placement and quantities are inadequate for current spacial needs. Several classrooms have ceiling mounted projectors that connect to a receptacle concealed above the ceiling or to extension cords which are violations of current NEC requirements.

Motor Starters:

Age- 25 years
Expected remaining useful life- 5 years
Rating- Satisfactory

Description: Large HP 3 phase motors throughout the facility are equipped with inefficient magnetic motor starters.



ENGINEERS ARCHITECTS LAND SURVEYORS, PC
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Senior High School South

Technology Description

Data Network Infrastructure:

Age- 10-15 Years
Expected remaining useful life- 1-3 Years
Rating- Unsatisfactory

Description: High School South building contains the district's Network Operations Center (NOC) that houses the servers and electronics that provide services for the district. The NOC location also serves as the Main Distribution Frame MDF for the High School Building including High School South. There are four data room locations in the HS South section of the building that connect to each other over OM1 multi-mode fiber and distribute data to classrooms using a mix of Cat5 & 5e twisted pair cabling. All of the locations are shared spaces and utilize some wall mounted racks. There is no air conditioning in either space. The network switches are a mix of 10/100 & 10/100/1000 Mbps and mostly older than 5 years. There are some zoning issues in this section of the building as some runs must exceed the allowable 295' maximum distance. *The MDF has little usable rack space remaining.*

Internet Services:

Age- NA
Expected remaining useful life- NA
Rating- Satisfactory

Description: Internet service is received through GST BOCES via the Southern Tier Network leased fiber.

Voice Systems:

Age- 10-15 Years
Expected remaining useful life- 1-3 Years
Rating- Unsatisfactory

Description: The existing phone system head end is located in the district's NOC that serves the district's digital PBXs. The phone system is no longer supported through the vendor. It has voice mail and auto attendant features however lack of support makes these features vulnerable to downtime in the event of a hardware failure. The system allows dialing and call routing within district. Office locations have digital hand sets and all classroom phones are analog sets using Cat3.

Wireless Technologies:

Age- 5-7 Years

Expected remaining useful life- 3-5 Years

Rating- Unsatisfactory

Description: Currently there is a Cisco wireless-G & N solution which consists of wireless access points that connect to a wireless controller located in the district's NOC. Most access points are deployed with external antennas and mounted in some classrooms. Not all instructional areas have reliable wireless coverage. The majority of the network appears to be 802.11g.

Paging Systems:

Age- 8 Years

Expected remaining useful life- 7 Years

Rating- Satisfactory

Description: The current paging system consists of a small Dukane interface in the main office with remote amplification. The speakers throughout the facility are connected via distributed cabling at cross connect locations.

Clock Systems:

Age- Undetermined

Expected remaining useful life- 7-10 Years

Rating- Satisfactory

Description: A Visiplex clock system serves all instructional, administrative and assembly spaces. The system is controlled by a master clock controller to synchronize the time.

Video Systems:

Age- 10+ Years

Expected remaining useful life- 1-3 Years

Rating- Unsatisfactory

Description: There is cable TV coaxial cable throughout the building. The backbone is distributed from the building entry point via Blonder Tongue amplifiers. There are TV connections and CRT Televisions in most classrooms. The district reports quality problems that are most likely due to signal strength and balance throughout the distribution system.

Classroom Technologies:

Age- Various Ages

Expected remaining useful life- 5 Years

Rating- Satisfactory

Description: Each room is equipped with a smart board with integrated audio. There is also a CRT monitor that utilizes the district's cable TV service.

Computer Labs:

Age- NA

Expected remaining useful life- 5-7 Years

Rating- Satisfactory

Description: High school South has computer labs available to the students along with several classroom workstations. The computer lab is connected to the LAN using the network cabinet within the room that distributes copper cabling to all the stations. There are approximately 32 current workstations within the lab.

Security Access Control System:

Age- 5-7 Years

Expected remaining useful life- 7-10 Years

Rating- Satisfactory

Description: High School South has a secured entrance that allows visitors to enter at the main office only, forcing them to sign in with personnel. The door has the ability to be controlled from several locations in this building including the main office, superintendant's office and some other alternate locations using the intercom. This is a heavily used entrance due to the proximity to the main offices and bus drop off. It utilizes intercoms at the exterior and controlled doors in the vestibule to control access. There is a panic button in the office that will lock exterior entrances and release fire doors in the building. Most heavily used entrances have access control however door contacts are not present at all exterior door locations. The system is an Andover Continuum system with mercury panels.

Video Surveillance:

Age- Various Ages

Expected remaining useful life- 1-3 Years

Rating- Unsatisfactory

Description: There is currently an analog Pelco system installed with coverage at all entrances and select corridors however the district has begun to add megapixel IP cameras to the network and installing video recording server to replace the existing DVR that record the analog cameras. The IP camera upgrades were mostly based around the secured entrance areas. The district purchased some cameras and are rolling them out in phases.

RECOMMENDATIONS



ENGINEERS ARCHITECTS LAND SURVEYORS, PC
 Airport Corporate Park, 100 Hunt Center
 Horseheads, NY 14845-1019
 P: 607-358-1000
 F: 607-358-1800

Senior High School South

In Project	Category	Year	Priority	Site Recommendations	Estimate	Thumbnails (if any)
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GSR	<u>LHS-GENERAL SITE RENOVATIONS</u> GENERAL SITE RENOVATIONS				
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** See Senior High School North for Site Recommendations



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 Airport Corporate Park, 100 Hunt Center
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Senior High School South

In Project	Category	Year	Priority	Architectural Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-HS-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS),</i>		
Y	HS	1	3	HS-A1 Replace Doors that are Not Fire Rated and/or Handicapped Acce Many corridor doors are aged and/or are not fire rated in accordance with current code requirements. Additionally, many of these doors lack operational door closers, and have old lock sets and door knobs that are not handicap accessible, and/or have non-impact resistant glass. These doors should be replaced with fire rated doors and frames as required by current code. Quantity: 109 single and 35 double rated doors	\$395,000	I M A G E
Y	HS	1	3	HS-A2 Replace Wire Glass in Door A recent project provided door and window assemblies throughout the building with wire glass at fire rated locations. Although the glass meets the fire rating requirement, it does not meet the impact safety requirements outlined in the current NYSED code. Replacing the glass with fire rated glass should be considered. Quantity:8 SF Location: Vestibule doors 263A	\$400	I M A G E
Y	HS	1	3	HS-A3 Non-Rated Corridor Walls There are many walls throughout the building with a metal wall system that is not fire rated as required by code. Replacing these walls and associated lockers to provide a proper fire rated wall is recommended. Quantity: 2,200 LF of fire rated corridor wall and 800 LF of corridor lockers	\$319,200	I M A G E
Y	HS	1	3	HS-A4 Replace Non-Impact Resistant Glass There are many display cases throughout the building that contain glass that is not meeting the current code. There are also some window assemblies (non-fire rated) that do not have impact safety glass installed. Replacing the glass with impact safety glass should be considered. Quantity: 7 display cases	\$5,600	I M A G E
Y	HS	1	3	HS-A5 Handrails and Guardrails The existing handrails and guardrails in the existing stairs are not code compliant and should be replaced. Quantity: 5 Stairwells	\$25,000	I M A G E

Y	HS	1	3	HS-A6 Boiler Room Vestibule	\$30,000	I M A G E
				The current doors leading from the corridor into the boiler room is not code compliant. Construct a fire rated vestibule and move and modify existing stair system as required by current building code. Quantity: 2 Doors		
Y	HS	1	3	HS-A7 Smoke Stop Curtain at Elevator	\$10,000	I M A G E
				Provide a smoke stop curtain at the existing elevator first and second story.		
Y	HS	1	3	HS-A8 Investigate U-Shaped Roof and Floor Joists	\$7,500	I M A G E
				There are a number of U-shaped steel joists present throughout most of the building. The construction of the top chord of these joists allow for the collection of moisture and possible deterioration of the joists. No significant deterioration was noted; however the deterioration is not always visible from below. A more in-depth investigation of the joists is recommended to determine if any deterioration is present.		
ADA				<u>II-HS-PHYSICALLY DISABLED ACCESS (ADA)</u> <i>AMERICANS WITH DISABILITIES ACT (ADA) COUNCIL OF AMERICAN BUILDING OFFICIALS / AMERICAN NATIONAL STANDARDS INSTITUTE (CABO / ANSI)</i>		
Y	ADA	1	2	HS-A9 Update Toilet Room to be Handicap Accessible	\$750,000	I M A G E
				Many toilet rooms are not handicap accessible due to the lack of clearances, grab bars, appropriate toilet and sink fixtures and/or lever style faucets. Some of these toilet rooms also do not have compliant ADA signage. Updating these toilet rooms will include all finishes as well as ADA and code improvements Quantity: 10 toilet rooms		
Y	ADA	2	1	HS-A10 Update Locker Rooms to be Handicap Accessible	\$450,000	I M A G E
				Existing Locker Rooms are not handicap accessible due to the lack of clearances, grab bars, appropriate toilet and sink fixtures and/or lever style faucets. All finishes and lockers are worn and should be replaced. Updating these locker rooms in accordance with current code should be considered. Quantity: 3,600 SF		
Y	ADA	1	3	HS-A11 Update Drinking Fountains to be Handicap Accessible	\$24,000	I M A G E
				Several non-accessible drinking fountains exist throughout the building. These drinking fountains should be updated to satisfy current code. Quantity: 12 drinking fountains		

GBI	<u>III-HS-GENERAL BUILDING RENOVATIONS-INTERIOR</u>					
	<i>RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.</i>					
Y	GBI	1	3	HS-A12 Replace Casework	\$522,000	
	The existing storage and sink systems in classrooms are an assortment of aged units that are no longer functional or aesthetically pleasing or ADA compliant. This casework should be considered for replacement. Quantity: 1,160 LF					I M A G E
Y	GBI	1	3	HS-A13 Renovate Gym	\$184,000	
	Three basketball backboards should be considered for upgrade to fiberglass and the acoustical wall treatments should be replaced. Additionally, the existing wall pads have reached the end of its useful life and should be considered for replacement (Quantity: 180 LF). The wood flooring in this space is in need of sanding, restriping and resurfacing (Quantity: 7,400 SF) and the movable partition should be replaced. Additionally, the bleachers are worn and not code					I M A G E
Y	GBI	1	3	HS-A14 LGI	\$60,000	
	The existing built in tables and teaches station is worn and should be replaced.					I M A G E
Y	GBI	1	2	HS-A15 Technology 150	\$48,000	
	The existing built in tables and teaches station is worn and should be replaced. Quantity: 5 4'x4' tables and teachers station					I M A G E
Y	GBI	1	m	HS-A16 Cracked Terrazzo	\$900	
	There are several locations in the building where the existing terrazzo flooring has cracked and it is recommended to patch these locations. Quantity: 30LF					I M A G E
Y	GBI	1	2	HS-A17 Replace Acoustic Ceiling Tile	\$248,000	
	Many spaces have 12"x12" acoustic ceiling tile that is worn and should be considered for replacement. Quantity: 38,150 SF					I M A G E
Y	GBI	1	2	HS-A18 Replace Carpet	\$60,000	
	Many spaces have carpet that is worn and should be considered for replacement. Quantity: 10,000 SF					I M A G E

Y	GBI	1	2	HS-A19	Replace VCT	\$66,000	I M A G E
					Many spaces have VCT that is worn and should be considered for replacement. Quantity: 11,000 SF		
Y	GBI	1	3	HS-A20	Refinish Wood Floor	\$60,000	I M A G E
					A couple of spaces have a wood floor that is worn and should be considered for refinishing. Quantity: 6,000 SF		
Y	GBI	1	2	HS-A21	Replace Aged Blackboards / Tack boards	\$157,500	I M A G E
					Several aged blackboard / tack board units exist throughout the building. These units should be considered to be replaced with new whiteboard (dry erase) / tack board units. Quantity:2,250 LF whiteboards / tack boards		
Y	GBI	1	2	HS-A22	Replace Aged Window Treatments	\$38,400	I M A G E
					Existing window treatments throughout the building should be considered for replacement. Quantity: Refer to elevations and metal panel replacement		
Y	GBI	1	3	HS-A23	Abate 9"x9" Vinyl Asbestos Floor Tile	\$685,000	I M A G E
					The 9"x9" vinyl asbestos floor tile is worn and should be considered for replacement. Quantity: 37,450 SF		
Y	GBI	1	2	HS-A24	Replace Aged Insulated Metal Panel Wall System	\$630,000	I M A G E
					The existing exterior storefront system is worn and should be replaced with a more insulated system. Quantity: 18,000 sf Refer to elevations		
Y	GBI	1	3	HS-A25	Stair Floor Finish	\$3,000	I M A G E
					Stair S3 requires the replacement of deteriorated terrazzo at the landing as well as deteriorated stair treads.		

Y	GBI	1	2	HS-A26 Computer Desks	\$154,000	I M A G E
				There are several rooms with existing computer desks that are worn and should be replaced. Quantity: 440 LF		
Y	GBI	1	3	HS-A27 Lack of Control Joints	\$5,000	I M A G E
				Wall cracking was observed at the connection corridor between the buildings due to al lack of masonry control joints. Recommend new masonry control joints be cut into these walls at the corners of door and window openings at 5' off of the corners and at a 15' maximum spacing.		
Y	GBI	1	3	HS-A28 Expansion Joint in Floor	\$5,000	I M A G E
				There is cracking in the second floor of the connection corridor. This is a location where two beams are running parrallel and a expansion joint should have been placed in the floor. Install expansion joint and repair flooring.		
Y	GBI	1	2	HS-A29 Nurse and Work Room Renovations	\$91,000	I M A G E
				The existing nurse and work room area does not work functionally and needs reconfiguration. Approx. quantity: 1,400 SF		
Y	GBI	1	2	HS-A30 English Classrooms	\$650,000	I M A G E
				The current configuration of English classrooms does not equally allocate space. Renovation of wing is suggested for more appropriately sized classrooms. Approx. quantity: 10,000 SF		

GBE **IV-HS-GENERAL BUILDING RENOVATIONS-EXTERIOR**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

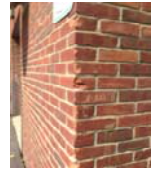
Y	GBE	1	m	HS-A31 Provide Cages for Skylights	\$3,000
				Two skylights located near the Gymnasium roof are in need of protective metal caging.	



Y	GBE	1	2	HS-A32 Replace Overhead Door	\$2,500
				The overhead door located near Technology Room 150 has reached the end of its useful life and should be replaced. Corner guards should also be added to protect from further damage.	



Y GBE 1 m **HS-A33 Repair Chipped Masonry** **\$1,500**
 Some masonry is chipped and deteriorated. It should be removed and replaced at the corner of Technology Room 150.



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Y GBE 1 2 **HS-A34 Replace Deteriorated Exterior Doors** **\$12,000**
 Several exterior doors are deteriorated and should be replaced. Quantity: 2 exterior doors

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Y GBE 1 3 **HS-A35 Update Exterior Railings to be ADA Compliant** **\$7,500**
 The railings by the Boiler Room, by the Business Office, and the exit at the Hallway that connects the North and South High School are not ADA compliant as they lack the required extension as outlined by current code and should be replaced. The railing outside the Loading Dock should be re-secured as it is not stable and the supports have detached.



Y GBE 1 2 **HS-A36 Replace Main Entrance Stairs** **\$5,000**
 The stairs at the Main Entrance are currently cracked and create a tripping hazard. Recommend replacing the stairs and slab as well as providing anti-slip on the stairs.



Y GBE 1 3 **HS-A37 Update the Loading Dock to be Secure** **\$5,500**
 To make the Loading Dock a secure area, a permanent rail and chain system should be installed as well as a canopy over the entire area. The overhead door should also be replaced as it has reached the end of its useful life.



Y GBE 1 2 **HS-A38 Replace Exterior Window Systems** **\$54,000**
 Several exterior windows systems consist of Kalwall, non-thermally insulated glass that has reached the end of its useful life. These windows should be replaced with units providing dual glazing, greater thermal performance, improved energy efficiency, and greater ease of operation for ventilation and emergency egress (where appropriate). Quantity: 5 units, totaling 1,000 SF of glass. Locations: Cafeteria 109 and Gym 120

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Y GBE 1 3 **HS-A39 Replace Overhead Doors at Receiving Room** **\$6,000**
 The overhead door (approx. 6'x7' ea) at the Receiving Room is worn and should be considered for replacement.



Y GBE 1 3 **HS-A40 Repair Wall System** **\$5,250**
 Outside of Art Room 155 and Classroom 170, a portion of the wall system is damaged and should be repaired.



Y GBE 1 m **HS-A41 Replace Window Caulking**
The window caulking outside of the Boiler Room has failed and needs replacement.

\$750



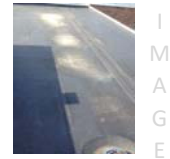
Y GBE 1 2 **HS-A42 Replace Fascia**
The fascia over rooms 158 to 172 is pulling away from the roof edge and should be replaced.

\$2,500



Y GBE 1 2 **HS-A43 Roof Replacement**
Replace areas of the roof that have expired warranties. Approx. 43,400 SF



\$781,200





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Senior High School South

In Project	Category	Year	Priority	Mechanical Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-HS-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i>		
Y	HS	1	3	HS-M1 Occupied Areas Ventilation A number of rooms currently features no ventilation in the form of fresh air supply and as they are occupied spaces, it is required. Provide fresh make up air at a rate in accordance with code and offer relief for exhausting the space. Affected Areas: Room 250A, as well as the Conference Room and Work/Copy Room in the office suite opposite the gym on the building's east face.	\$25,000	I M A G E
Y	HS	1	3	HS-M2 Art Room Exhaust The existing exhaust grilles transferring air directly from 2 art rooms into the corridor is not in accordance with code. Ventilation requirements for these room should be re-evaluated and exhaust/relief air needs to be properly ducted in accordance with code. Affected Areas: Room 153, 155	\$15,000	
Y	HS	2	1	HS-M3 Gymnasium Locker Room Ventilation The Men's Locker Room currently features inadequate air supply for both heating and ventilation. Relief air from the Gymnasium is ducted as supply air into the Locker Room, and the athletic office currently features no ventilation. The Girls Locker Room does not currently have any make-up air whatsoever to the space and no proper exhaust for relieving air. These spaces are very under-ventilated and a ducted system to provide proper make-up air and heated supply as well as exhaust relief is highly recommended.	\$65,000	
Y	HS	1	3	HS-M4 Dark Room Ventilation After spending only a few minutes in the dark room space within Room 151, itchy eyes quickly developed. Due to this, the space does not seemingly feature adequate ventilation. Verify that the current ventilation system is operable and exhausting air at an appropriate rate. If the air change rate is less than that dictated by code, the ventilation system and/or exhaust fan should be upgraded.	\$7,500	I M A G E

GBI

II-HS-GENERAL BUILDING RENOVATIONS

RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBI 1 2 **HS-M5 Gym Air Handling Unit Replacement** **\$80,000**

The 2 existing Air Handling Units serving the Gymnasium are original to the building and well past their intended service life. Furthermore, duct accessories are exhibiting signs of wear or are heavily damaged. Replacement with new, higher efficiency units and associated ducting is recommended.



Y GBI 1 2 **HS-M6 Upgrade to DDC Controls and Digital Equipment** **\$50,000**

A portion of the existing building temperature controls is governed by a direct digital control system, but a large portion of the building is still controlled with an old pneumatic control system as DDC retrofitted to terminal control equipment. It is recommended that the pneumatic systems be replaced with a direct digital control system. Furthermore, terminal pneumatic equipment should be replaced with digital equipment.



Y GBI 1 2 **HS-M7 HVAC System and Plumbing Fixtures in Nurse's Office Suite** **\$25,000**

The current ventilation, heating, and AC systems serving the nurses office are outdated, inefficient, and de-coupled systems. Ventilation is difficult to maintain and often counterproductive to cooling in the summer months. A comprehensive solution provided by a packaged air handling unit should be installed to provide all services to the space. Furthermore, the nurse's office bathrooms require replacement of outdated bathroom fixtures with ADA compliant low-flow units featuring touch free operation.

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Y GBI 1 2 **HS-M8 HVAC System in District Office Suite** **\$45,000**

The current ventilation, heating, and AC systems serving the district office are outdated, inefficient, and de-coupled systems. Ventilation is difficult to maintain and often counterproductive to cooling in the summer months. A comprehensive solution provided by a packaged air handling unit should be installed to provide all services to the space.

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Y GBI 1 2 **HS-M9 HVAC System in Business Office and Computer Suite** **\$65,000**

The current ventilation, heating, and AC systems serving the business office are outdated, inefficient, and de-coupled systems. Ventilation is difficult to maintain and often counterproductive to cooling in the summer months. A comprehensive solution provided by a packaged air handling unit should be installed to provide all services to the space.

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Y GBI 1 m **HS-M10 Manual Temperature Controls in Restroom** **\$10,000**

Existing manual control of heating units results in less comprehensive control of the overall system which leads to increased inefficiency. Manual control should be eliminated and these units should be served by the DDC system with digital thermostats. Affected Areas: Men's and Women's Toilet Room's adjacent to Boiler Room



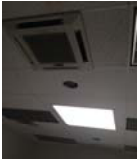




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Y GBI 1 m **HS-M11 Redundancy in Hydronic Pumps** **\$10,000**

The existing distribution pumps serving the hydronic system are currently piped in a single pump configuration. This piping arrangement offers no redundancy to the system, and in the event of pump failure entire zones would go unheated. It is recommended that a dual pump configuration be installed to introduce redundancy and to increase the service life of each individual pump.



Y	GBI	1	2	HS-M12 Corroded Valves and Piping Accessories	A number of existing valves and piping accessories for the hydronic heat system have surpassed their intended service life and are very corroded. This equipment should be replaced to prevent failure and to ensure proper functioning of the hydronic system. Affected Areas: 1st Floor Pump Room, 2nd Floor Fan Room, 2nd Floor Storage Room adjacent to Room 265.	\$15,000		I M A G E
Y	GBI	1	m	HS-M13 Leaking Hydronic System Pump	An existing water pump serving the hydronic heating system is exhibiting a leak. This leak is leading to corrosion and is decreasing the effectiveness and service life of the unit. The leak should be repaired or the pump replaced. Affected Areas: 2nd Floor Storage Room adjacent to Room 265.	\$500		I M A G E
Y	GBI	1	3	HS-M14 Integrate Heat and AC in Office and Classrooms	Many spaces throughout the building feature ducted supply heat, ducted relief air/exhaust, and a split DX AC fan coil unit. This layout presents issues in regards to ventilating the space in the warmer months. As the AC unit conditions the air within the room, warm makeup air for proper ventilation that has not been pre-conditioned is ducted in directly from outside. This dramatically increases the cooling load experienced by the existing AC equipment. Furthermore, The AC equipment, both the condensing units on the roof and the coil units in the spaces, have reached the end of their service life. It is recommended that the split systems be removed, and packaged air handling units featuring both heating and cooling capabilities be installed and ducted through the existing supply/return distribution system.	\$4,000		I M A G E
Y	GBI	1	2	HS-M15 Gymnasium Locker Room Issues	The existing Gymnasium locker rooms feature inadequate drainage in the shower area, bathroom fixtures that are not ADA accessible or compliant, broken shower fixtures, and very outdated equipment. It is recommended that both the Men's and Women's Locker Rooms be renovated to offer efficient and ADA compliant fixtures that are drained properly and individually. See also: Recommendation HS-M4 regarding inadequate supply air and ventilation	\$30,000		I M A G E
Y	GBI	1	2	HS-M16 Air Conditioning in Copy Room	There is currently no existing air conditioning in the work/copy room in the office suite opposite the gymnasium on the east face of the building. The copy equipment in the space has the potential to generate a large amount of heat, and ducted conditioned air as well as adequate exhaust should be provided for the space. See also: Recommendation HS-M1.	\$7,500		I M A G E
Y	GBI	1	3	HS-M17 Exhaust Fan Replacement	The existing exhaust fan which serves the art room, the pottery kiln, and other spaces in the immediate area is well beyond its intended service life. This fan should be replaced with a properly sized unit in accordance with code requirements. Affected Areas: Room 157 and adjacent spaces. See also: Recommendation HS-M2	\$6,500		
Y	GBI	1	3	HS-M18 Entrapped Air in Hydronic System air vents	While inspecting the building it was apparent that a large pocket of air was present in the hot water hydronic system. The supply pump located in the ceiling of the Boiler Room exhibited a large amount of noise consistent with cavitation. Similar disturbances were observed and "heard" in hydronic supply piping in the Men's Toilets adjacent to the Boiler Room. Discussion with maintenance staff concluded that noise within the pump is sporadic, consistent with idea that this pocket of air moves throughout the system. The presence of air can cause great damage to piping and accessories and will greatly reduce the life of the system. The hydronic system should be properly purged of air and air relief valves placed on high points on the system.	\$5,000		G E

Y GBI 1 3 **HS-M19 Permanent Tie-Offs for Roof Top Units** **\$10,000**
 All rooftop HVAC equipment within 10 feet of the edge of the roof do not feature permanent tie-offs. Permanent tie-offs should be installed to this equipment in accordance with code safety regulations to increase the safety of maintenance staff. See also: Recommendation HS-M12 regarding replacement/removal of these units.

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Y GBI 1 3 **HS-M20 Corroded Piping in Dark Room** **\$1,000**
 Much of the existing piping serving the wash sinks within the dark room is corroded due to the use of chemicals within the space. This piping should be replaced. Affected Area: Room 151.



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Y GBI 1 2 **HS-M21 Missing ADA Pipe Wrap** **\$4,500**
 Many lavatories do not feature ADA compliant pipe insulation. ADA pipe insulation should be installed on these fixtures in accordance with the regulation. Affected Areas: Gymnasium Locker Rooms, Nurses Office Toilet Room, Public Restrooms, etc.



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Y GBI 1 m **HS-M22 Damaged Pipe Insulation** **\$500**
 Hot water hydronic piping located in the 1st floor Pump Room currently has damaged insulation. Re-insulating these pipes is recommended.







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 Horseheads, NY 14845-1019
 P: 607-358-1000
 F: 607-358-1800

Senior High School South

In Project	Category	Year	Priority	Electrical Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-HS-HEALTH AND SAFETY</u> BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS		
Y	HS	1	1	HS-E1 Exit Egress Signage Replace dim and non-working Exit fixtures that violate Life Safety code requirements. Replace with new energy efficient LED fixtures for energy savings. Provide additional exit fixtures as required to comply with current life safety code requirements. (estimate assumes 30 Fixtures)	\$6,000	
Y	HS	1	m	HS-E2 GFCI Receptacles At locations identified, where within 6' of a water source, replace non-protected receptacle with new GFCI protected device. Identify devices as being "GFCI Protected". (estimate assumes 6 devices)	\$900	I M A G E
Y	HS	1	1	HS-E3 Arc Flash Labeling The electrical system has not been Arc Flash rated and labeled in accordance with current NEC 70E code. Provide testing and proper labeling in compliance with NEC code requirements.	\$11,100	I M A G E
Y	HS	1	m	HS-E4 Fire Caulk Penetrations Fire caulk corridor through wall penetrations to maintain fire safety ratings. (estimate 8 penetrations)	\$800	
Y	HS	1	1	HS-E5 Fire Alarm Audio / Visual Notification Devices Provide additional Fire Alarm Audio / Visual notification devices where required in occupied spaces to comply with current NFPA requirements. (estimate assumes 10 locations)	\$2,000	I M A G E

Y	HS	1	3	HS-E6 Interior Emergency Egress Lighting	\$1,400	I M A G E
				Art rooms and technology areas lack emergency egress lighting units. Provide battery backed-up LED emergency wall packs.		
Y	HS	1	1	HS-E7 Exterior Egress Emergency Lighting	\$4,500	I M A G E
				Provide NFPA Level 1 compliant exterior emergency egress lighting adjacent to all exterior egress doors to meet current life safety code requirements. (estimate 10 locations)		
GBI				<i>II-HS-GENERAL BUILDING RENOVATIONS-INTERIOR RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.</i>		
Y	GBI	1	1	HS-E8 T12 Lighting Upgrades	\$4,000	
				Portions of the building are lit using obsolete T12 lamped fixtures with obsolete magnetic ballasts. Replace fixtures with new LED lit fixtures for increased energy and maintenance savings. Reuse existing wiring and controls.		
Y	GBI	1	3	HS-E9 T8 Lighting Upgrades	\$664,800	I M A G E
				In areas lit with T8 lamped fixtures with electronic ballasts. Replace T-8 lamped fixtures with new LED lit fixtures for increased energy and maintenance savings. Reuse existing wiring and controls.		
Y	GBI	1	1	HS-E10 Incandescent Lighting Upgrades	\$1,000	I M A G E
				In areas of the building are lit with obsolete incandescent fixtures. Replace fixtures with new LED lit fixtures for increased energy and maintenance savings. Reuse existing wiring and controls.		
Y	GBI	1	m	HS-E11 Exposed Lamp Shatter Guards	\$1,000	I M A G E
				In areas with light fixtures that have exposed lamps; provide lamp shatter guard tubes and/or wireguard protection to prevent accidental lamp breakage.		
Y	GBI	1	m	HS-E12 Restore HVAC Equipment Raceway Wiring	\$2,000	 I M A G E
				Weathertight raceway serving existing rooftop HVAC equipment connections have seperated and needs to be repaired. (estimate based on 4 units)		
Y	GBI	1	3	HS-E13 Occupancy Sensors	\$25,000	I M A G E
				Provide Occupancy sensors in all areas not currently having coverage to comply with NYS energy code requirements and for increased energy savings. (estimate 50 locations)		

Y GBI 1 3 **HS-E14 Daylight Harvesting Lighting Sensors** **\$33,000**
 Provide Daylight Harvesting Sensors to comply with NYS energy code requirements and for increased energy savings. (estimate 44 locations)

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Y GBI 1 2 **HS-E15 Replace Power Distribution Panels** **\$45,000**
 Replace original construction power distribution panels with new panels and feeders. (estimate 9 panels)



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Y GBI 1 3 **HS-E16 Ceiling Mount Projector Power** **\$33,000**
 Classrooms with ceiling mount projectors have non-code compliant above ceiling receptacle connections. Relocate above ceiling receptacles into the ceiling grid panel. (estimate assumes 30 locations and includes cost of ceiling panel)



Y GBI 1 m **HS-E17 Emergency Power Off Identification** **\$1,200**
 Provide signage identifying emergency off power button locations in technology labs and Home EC classrooms per NEC code requirements. (estimate 6 locations)



Y GBI 1 3 **HS-E18 Technology Shop Busway** **\$20,000**
 Replace existing ceiling mount power busway and connections at technology shop with new power distribution system not having exposed live parts.



Y GBI 1 3 **HS-E19 Provide Additional Power Outlets** **\$10,000**
 Provide additional receptacles and circuitry in various locations to discourage the use of extension cords and power strips.

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GBE **II-HS-GENERAL BUILDING RENOVATIONS-EXTERIOR**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBE 1 2 **HS-E20 Replace Exterior Wall packs** **\$2,500**
 Replace existing HID and HPS exterior wall packs with LED wall packs to provide better lighting, reduced energy consumption, and maintenance savings. (estimate 12 locations)

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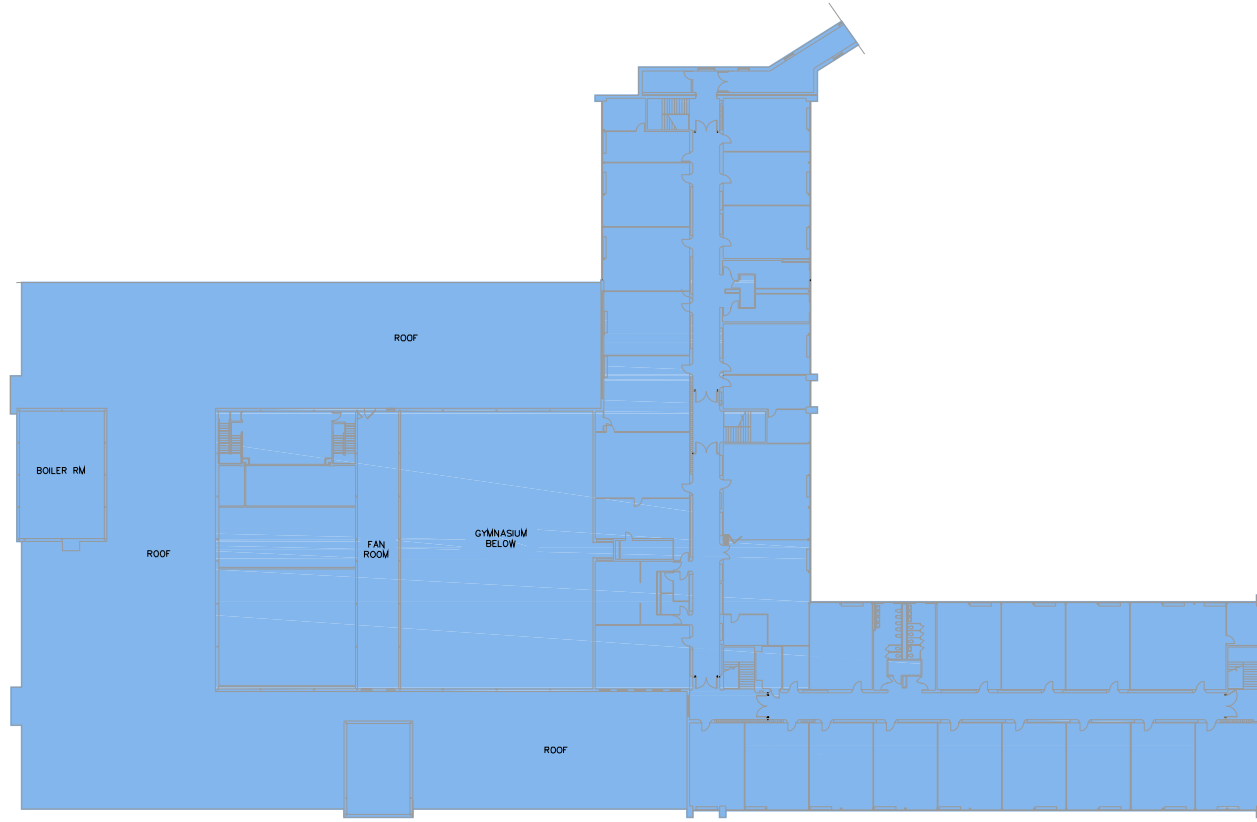
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 Airport Corporate Park, 100 Hunt Center
 Horseheads, NY 14845-1019
 P: 607-358-1000
 F: 607-358-1800

Senior High School South

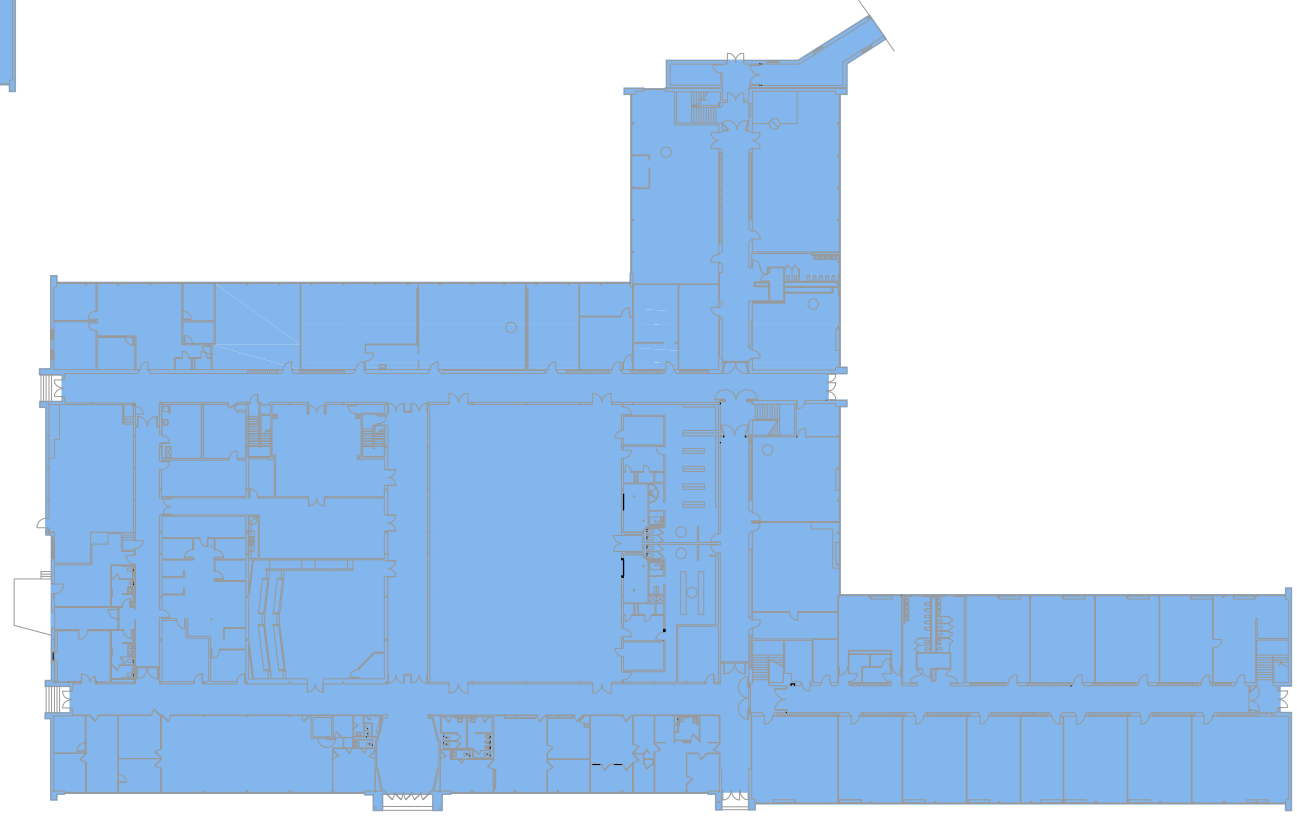
In Project	Category	Year	Priority	Technology Recommendations	Estimate	Thumbnails (if any)
	SBI			<u>I-HS-SMART SCHOOLS BOND INVESTMENT</u> SMART SCHOOLS BOND INVESTMENT PLAN		
Y	SBI	1	1	HS-T1 Network Data Closet Improvements There are five data rooms and cabinets in the south section of the high school that will need improvements. The MDF/NOC requires some reconfiguring of equipment racks as well as addition rack space to support additional cabling & switch needs. CER-G will have walls built around the current location to create and isolated space and get the typical data room environmental upgrades. CER-B & C will both be isolated within their current spaces as well should get typical environmental upgrades. All data rooms will should be secured spaces with air conditioning, UPS on proper power, new 10G fiber optic backbone, new patch cables and wire management.	\$400,000	I M A G E
Y	SBI	1	1	HS-T2 Network Electronics Upgrade The network electronics should be upgraded and reconfigured to maximize bandwidth to the end user. The switches should be capable of 10 Gbps connection to the network backbone and share at least 20 Gbps with the other switches in the data room. They should also be sized with proper power supplies so that PoE+ devices can be powered via the switch.	\$100,000	I M A G E
Y	SBI	1	1	HS-T3 Security Video Surveillance The district has begun to phase out the existing analog cameras and DVRs but a complete replacement of the DVR with video recording servers will provide the district with a single, simplified video management system that is versatile and easily expandable. The district has purchased some of the equipment to continue the process however labor, cabling and some additional equipment is needed. The district should focus on corridor, stairwell, entrance and parking lot coverage.	\$39,000	I M A G E
Y	SBI	1	1	HS-T4 Upgrade Network Data Cabling The existing building data cabling is in unsatisfactory condition in some areas of this section of the building. Both data rooms are potentially being relocated which would require recabling, at which point this issue will be addressed for this section of the high school. The recommendation is to reduce classroom data outlets as wireless will become widely used. Classrooms would receive four data drops each.	\$400,000	I M A G E
Y	SBI	1	1	HS-T5 Wireless Network Infrastructure To account for more widespread use of wireless devices and the need for a flexible wireless network to support student used devices, the wireless network should be upgraded to the most current wireless-AC standard and expand coverage to all classrooms. Capacity should also be considered so the district has the ability to deploy 1-2-3 devices per student.	\$150,000	I M A G E
Y	SBI	1	1	HS-T6 Voice over IP Phone System (District Wide) The existing PBX based system should be upgraded to a voice over IP system that is hosted by GST BOCES. This will provide the district with a fully supported phone system with all the best unified communications features, of which they will receive BOCES aid from the state. The system should be integrated into the paging system and have e911 capabilities.	\$623,000	I M A G E
	GBI			<u>I-HS-GENERAL BUILDING RENOVATIONS-INTERIOR</u> RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.		
Y	GBI	1	1	HS-T7 IP Video Distribution to Replace Cable Infrastructure The current system is very old and the low and high band channels provide poor viewing quality. The district should look to upgrade this system to an IP based system allowing content and channels to be broadcast over the Local Area Network. This would provide teachers and students with flexible cable & content TV system accessible anywhere.	\$75,000	I M A G E

S.E.D. BUILDING CONDITION SURVEY

KEY PLANS

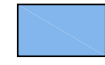


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SYSTEMS DESCRIPTIONS



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F: 607-358-1800

Center Street

Mechanical Description

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Boilers:

Age- 55 Years

Expected remaining useful life- 5 Years

Rating- Satisfactory

Description: 2 Cleaver Brooks fire tube steam boilers provide heated steam for the heating system, which travels to terminal units throughout original portions of the building. This steam is also used to heat water in a heat exchanger to be used for hot water hydronic supply for terminal units in newer additions to the building.

Domestic Water Systems:

Age- 63 Years

Expected remaining useful life- 5 Years

Rating- Satisfactory

Description: The water supply is municipal.

Domestic Hot Water:

Age- 11 Years

Expected remaining useful life- 5 Years

Rating- Satisfactory

Description: 1 A.O. Smith hot water heater located in the boiler room provides 250,000 Btuh of heated water for the domestic water supply.

Sanitary and Storm Systems:

Age- 63 Years

Expected remaining useful life- 5 Years

Rating- Satisfactory

Description: The sanitary waste from the school empties to municipal systems.

Classroom Ventilation/Heat:

Age- 11 Years

Expected remaining useful life- 20 Years

Rating- Satisfactory

Description: All classrooms feature unit ventilators installed in 2004 for heating and ventilation. The computer lab in Room 116 is conditioned by a roof top air handling unit. Relief air in classrooms is transferred to the corridor plenum and exhausted through louvers, gravity vents, and exhaust fans.

Kitchen:

Age- 55 Years

Expected remaining useful life- 5 Years

Rating- Satisfactory

Description: Supply air to the kitchen area travels from the cafeteria through transfer ducts and doorways. Air is exhausted through the dishwashing hood, and the oven hood. There is no make up air venilation incorporated into these hoods. Heat is provided through unit heaters, cabinet convectors, and perimeter radiation.

Gymnasium:

Age- 18 Years

Expected remaining useful life- 10 Years

Rating- Satisfactory

Description: 1 air handling unit located in the mechanical fan room above an adjacent corridor provides heating and ventilation to the gymnasium. Supply and return are ducted to and from the space.

Cafeteria:

Age- 18 Years

Expected remaining useful life- 10 Years

Rating- Satisfactory

Description: 1 air handling unit located in the mechanical fan room above an adjacent corridor provides heating and ventilation to the Cafeteria. Supply and return are ducted to and from the space. Supplemental heat is provided by perimeter radiation.

Library, Office Suite, Computer Lab:

Age- 19 Years

Expected remaining useful life- 20 Years

Rating- Satisfactory

Description: 1 roof top air handling unit provides heated, cooled, and ventilated air to each of these spaces. Supply and return air is ducted to the space and heating is supplemented by perimeter radiation.



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Center Street

Electrical Description

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Emergency / Stand-by Power System:

Age- 7 years

Expected remaining useful life- 23 years

Rating- Satisfactory

Description: Building is backed-up via a Cummins diesel fuel back up generator. There are two separate automatic transfer switches serving both Life Safety and Standby power loads, adhering to NFPA Level 1 design standards.

Exit Egress Path Signage

Age- 12 years

Expected remaining useful life- 3 years

Rating- Unsatisfactory

Description: Exit signage is comprised of both LED lit signage and unlit graphic adhesive stickers. The majority of the Exit fixtures are either unlit or very dim and do not clearly identify path of egress.

Interior Emergency Egress Lighting

Age- 7 to 12 years

Expected remaining useful life- 3 to 13 years

Rating- Satisfactory

Description: Places of assembly include battery backed-up wall packs, limited corridor fluorescent fixtures are connected to Life Safety power circuits providing emergency lighting along path of egress within building corridors.

Exterior Emergency Egress Lighting

Age- 1 year

Expected remaining useful life- 19 years

Rating- Unsatisfactory

Description: Exterior emergency lighting is limited to primary secured entrances constructed 2014-2015 school year. The remainder of exterior doors lack emergency lighting.

Fire Alarm Systems:

Age- 7 to 12 years

Expected remaining useful life- 13 to 9 years

Rating- Satisfactory

Description: The Fire Alarm system is a Notifier fully addressable system. Detection and notification devices appear to be adequate; although additional devices are required at various locations to comply with current life safety codes. The system also provides the code required shut down of mechanical equipment upon alarm activation. Kitchen hood's ANSUL systems are not interconnected to building's fire alarm control panel for alarm sequence initiation.

General Lighting:

Age- 7 to 26 years

Expected remaining useful life- 13 to 3 years

Rating- Satisfactory

Description: The majority of the building's lighting consists of T8 fluorescent lamped fixtures containing electronic ballasts.

Building Mount Exterior Lighting

Age- 3 to 12 years

Expected remaining useful life- 17 to 5 years

Rating- Satisfactory

Description: The exterior building mount lighting consists of a mix of LED and compact fluorescent fixtures.

Electrical Service Entrance:

Age- 10 years
Expected remaining useful life- 40 years
Rating- Satisfactory

Description: Three phase, four wire service fed underground from the High School Main distribution to a 120/240V 1200A GE Spectra Series switchgear to MDP-1.

Electrical Power Distribution Panels:

Age- 2 to 20 years
Expected remaining useful life- 28 to 10 years
Rating- Satisfactory

Description: The electrical distribution panels have been updated and are in satisfactory condition. The building's power distribution equipment does not comply with current NEC 70E code requirements for testing and labeling of Arc Flash ratings.

Wiring Devices

Age- Varies to 50 years
Expected remaining useful life- Varies
Rating- Satisfactory

Description: The majority of the electrical wiring devices in the building date to the original construction and have exceeded their expected useful life. Some spaces in the building have inadequate receptacle coverage. Several classrooms have ceiling mounted projectors that connect to a receptacle concealed above the ceiling or to extension cords which are violations of current NEC requirements.

Motor Starters:

Age- 25 years
Expected remaining useful life- 5 years
Rating- Satisfactory

Description: Large HP 3 phase motors throughout the facility are equipped with inefficient magnetic motor starters.



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P: 607-358-1000
F: 607-358-1800

Center Street

Technology Description

Data Network Infrastructure:

Age- 10-15 Years
Expected remaining useful life- 1-3 Years
Rating- Unsatisfactory

Description: Center Street Elementary School is connected to the High School via single mode fiber and the current electronics support a 1 Gbps connection over this link. There are two data rooms in the building that connect to each other over OM1 multi-mode fiber and distribute data to classrooms using a mix of Cat5 & 5e twisted pair cabling. Both data rooms are shared spaces and utilize wall mounted racks. There is no air conditioning in either space. The network switches are a mix of 10/100 & 10/100/1000 Mbps and mostly older than 5 years. Cabling pathways in this building are poor.

Internet Services:

Age- NA
Expected remaining useful life- NA
Rating- Satisfactory

Description: Internet service is received through GST BOCES via the Southern Tier Network leased fiber.

Voice Systems:

Age- 10-15 Years
Expected remaining useful life- 1-3 Years
Rating- Unsatisfactory

Description: The existing phone system at Center Street is a digital PBX solution that is no longer supported. The PBX in Center Street connects to the district wide system located in the NOC via truck connections. It has voice mail and auto attendant features however lack of support makes these features vulnerable to downtime in the event of a hardware failure. The system is connected to the district wide system allowing dialing and call routing within district. Office locations have digital hand sets and all classroom phones are analog sets using Cat3.

Wireless Technologies:

Age- 5-7 Years
Expected remaining useful life- 3-5 Years
Rating- Unsatisfactory

Description: Currently there is a Cisco wireless solution witch consists of wireless access points that connect to a wireless controller. Most access points are deployed with external antennas and mounted in some classrooms. Not all instructional areas have reliable wireless coverage.

Paging Systems:

Age- 8 Years
Expected remaining useful life- 7 Years
Rating- Satisfactory

Description: The current paging system consists of a small Dukane interface in the main office with remote amplification. The speakers throughout the facility are connected via distributed cabling at cross connect locations.

Clock Systems:

Age- Undetermined
Expected remaining useful life- 7-10 Years
Rating- Satisfactory

Description: A Visiplex clock system serves all instructional, administrative and assembly spaces. The system is controlled by a master clock controller to synchronize the time.

Video Systems:

Age- 10+ Years
Expected remaining useful life- 1-3 Years
Rating- Unsatisfactory

Description: There is cable TV coaxial cable throughout the building. The backbone is distributed from the building entry point via Blonder Tongue amplifiers. There are TV connections and CRT Televisions in most classrooms. The district reports quality problems that a most likely due to signal strength and balance throughout the distribution system.

Classroom Technologies:

Age- Various Ages
Expected remaining useful life- 5 Years
Rating- Satisfactory

Description: Each room is equipped with a smart board with integrated audio. There is also a CRT monitor that utilizes the district's cable TV service. Smart boards & projectors use 4:3 aspect ratio and connect to the user computer via VGA, USB & 3.5mm Audio where available.

Computer Labs:

Age- NA

Expected remaining useful life- 5-7 Years

Rating- Satisfactory

Description: Canter Street has a computer lab available to the students along with several classroom workstations. The computer lab is connected to the LAN using the network cabinet within the room that distributes copper cabling to all the stations. There are approximately 32 current workstations within the lab.

Security Access Control System:

Age- 5-7 Years

Expected remaining useful life- 7-10 Years

Rating- Satisfactory

Description: There is a secured entrance that was recently constructed and will allow visitors to enter at the main office only through a secured vestibule, forcing them to sign in with personnel. It utilizes an intercom at the exterior and controlled doors in the vestibule to control access. There is a panic button in the office that will lock exterior entrances and release fire doors in the building. Most heavily used entrances have access control however door contacts are not present at all exterior door locations. Some playground doors do not have access control.

Video Surveillance:

Age- Various Ages

Expected remaining useful life- 1-3 Years

Rating- Unsatisfactory

Description: There is currently an analog Pelco system installed with coverage at all entrances and select corridors however the district has begun to add megapixel IP cameras to the network and installing video recording server to replace the existing DVR that record the analog cameras. The IP camera upgrades were mostly based around the secured entrance areas. The district purchased some cameras and are rolling them out in phases.



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Center Street

Theatrical Equipment Description

General Building Information

Room Acoustics

Age- Unable to verify

Expected remaining useful life- Unable to determine

Rating- Average

Description: The room's frequency response and reverberation times are acceptable.

Audio System

Age- Unable to verify (approx. 15+ years)

Expected remaining useful life- At the end of its useful life

Rating- Poor

Description: The audio system in this space is inadequate

Lighting System

Age- 20+ Years

Expected remaining useful life- At the end of its useful life

Rating- Poor

Description: The lighting system is old, features limited functionality, no flexibility and should be upgraded to modern standards.

Houselighting System

Age- ? Years

Expected remaining useful life- ? Years

Rating- Acceptable

Description: We recommend upgrades to LED tubes for all of the existing fluorescent lights for improved energy savings.

Stage Rigging
System

Age- 20+ Years

Expected remaining useful life- At the end of its useful life

Rating- Poor

Description: The stage rigging system has many deficiencies and safety concerns. It should all be replaced.

Stage Rigging System - Curtains

Age- 7+ Years

Expected remaining useful life- <13 Years

Rating- Good

Description: The curtains in this space are adequate; however, the curtain tracks are not.

Video Presentation System

Age- 7+ Years

Expected remaining useful life- At the end of its useful life

Rating- Fair






Description: The existing system is the wrong format; although, it appears to be large enough for the space.

RECOMMENDATIONS



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Center Street

In Project	Category	Year	Priority	Site Recommendations	Estimate	Thumbnails (if any)
	GSR			<u>I-CS-GENERAL SITE RENOVATIONS</u> GENERAL SITE RENOVATIONS		
Y	GSR	1	3	CS-L1 Replace Playground Equipment Playground equipment pictures is rusted that could result in failure. Remove and replace equipment. Price includes removal and replacement of swing set and climbing structure with new swing set and two small climbing structures with new wood fiber surfacing.	\$40,000	
Y	GSR	1	3	CS-L2 Replace Curb Replace damaged concrete curb at loading dock	\$6,000	
Y	GSR	1	3	CS-L3 Dumpster Enclosure Add dumpster enclosures around dumpsters to improve aesthetics and security of dumpsters	\$35,000	
Y	GSR	1	3	CS-L4 Concrete Walks Some minor cracking was observed in concrete pavements. Price includes a general number for concrete panel replacement.	\$25,000	
	ADA			<u>I-CS-PHYSICALLY DISABLED ACCESS (ADA)</u> AMERICANS WITH DISABILITIES ACT (ADA) COUNCIL OF AMERICAL BUILDING OFFICIALS / AMERICAN NATIONAL STANDARDS INSTITUTE (CABO / ANSI)		
Y	ADA	1	2	CS-L5 ADA Signage Add required ADA signage at parking stalls	\$2,500	

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 F: 607-358-1800

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In Project	Category	Year	Priority	Architectural Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-CS-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS),</i>		
Y	HS	1	3	CS-A1 Replace Doors that are Not Fire Rated and/or Handicapped Acce Many corridor doors are aged and/or are not fire rated in accordance with current code requirements. Additionally, many of these doors lack operational door closers, and have old lock sets and door knobs that are not handicap accessible, and/or have non-impact resistant glass. These doors should be replaced with fire rated doors and frames as required by current code. Quantity: 61 rated doors Locations: 107, 104, 104, 102, 106D, 103, 101, (2)106A,	\$183,000	I M A G E
Y	HS	1	3	CS-A2 Replace Wire Glass in Library Window Assembly A recent project provided door and window assemblies throughout the building with wire glass at fire rated locations. Although the glass meets the fire rating requirement, it does not meet the impact safety requirements outlined in the current NYSED code. Replacing the glass with fire rated glass should be considered. Quantity:1 Window Assembly	\$2,500	I M A G E
Y	HS	1	3	CS-A3 Top Out Fire Rated Partitions There are a few locations where fire rated partitions do not provide a fire rating all the way to the structural deck above. In most of these cases the partition only goes to the bottom of the structural steel. Adding a shaft wall or topping out the partitions with materials to meet the appropriate fire rating should be considered. Locations: Wall between Receiving and Kitchen	\$2,000	I M A G E
Y	HS	1	3	CS-A4 Replace Non-Impact Resistant Glass There are many display cases throughout the building that contain glass that is not meeting the current code. There are also some window assemblies (non-fire rated) that do not have impact safety glass installed. Replacing the glass with impact safety glass should be considered. Quantity: 2 display cases and 2 interior window assemblies Locations: Interior vestibule doors in Corridor 100A, interior vestibule doors by Boiler Room, display	\$4,000	I M A G E
Y	HS	1	3	CS-A5 Enclose Existing Stairs with Fire Rated Partitions and Doors The existing stairs are not enclosed with fire rated partitions and doors as required by current building code. Construct a fire rated stair enclosure and provide code compliant handrails and guardrails. Quantity: 2 stairs	\$20,000	I M A G E

Y	HS	1	m	CS-A6	Infill Door under Stair Landing	\$2,000	I M A G E
					Remove door leading to storage under stair landing and infill to match existing. Quantity: 2		
Y	HS	1	m	CS-A7	Provide Handrails at Existing Platform Stairs	\$800	I M A G E
					The existing stairs leading from the corridor to the platform level do not have handrails as required by building code. Quantity: 10 LF		
Y	HS	1	3	CS-A8	Boiler Room Vestibule	\$10,000	I M A G E
					The current door leading from the corridor into the boiler room is not code compliant. Construct a fire rated vestibule and move and modify existing stair system as required by current building code.		
Y	HS	1	3	CS-A9	Corridor Coiling Fire Door	\$500	I M A
					Remove existing coiling fire door from Corridor 100D.		
Y	HS	1	3	CS-A10	Storage Under Stage	\$5,000	I M A G E
					Storage under stages is no longer allowed by building code and removal of existing doors with a wood infill to match existing is recommended.		
Y	HS	1	3	CS-A11	Smoke Stop Curtain at Elevator	\$10,000	I M A G E
					Provide a smoke stop curtain at the existing elevator first and second story.		
Y	HS	1	3	CS-A12	Update Coiling Doors at Dishwashing Station	\$3,500	I M A G E
					The current door for the dishwashing station is not fire rated and not appropriate for this location. Consider replacing the door with a fire rated coiling door and infilling a portion of the wall to match existing.		

ADA

II-CS-PHYSICALLY DISABLED ACCESS (ADA)

AMERICANS WITH DISABILITIES ACT (ADA) COUNCIL OF AMERICAN BUILDING OFFICIALS / AMERICAN NATIONAL STANDARDS INSTITUTE (CABO / ANSI)

Y	ADA	1	3	CS-A13	Replace Door Knobs With Handicapped Accessible Levers	\$1,200
<p>Aside from doors that have been previously recommended for replacement due to fire rating, doors throughout the building have door knobs that are not considered to be handicap accessible. These door knobs should be replaced with handicapped accessible lever style locks as outlined by current code. Quantity: 4 door knobs. Locations: Exterior door from Coaches Office, Storage door in 119. Storage door in Office near 119. Exterior door from Receiving</p>						

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Y	ADA	1	2	CS-A14	Update Toilet Room to be Handicap Accessible	\$240,000
<p>Many toilet rooms are not handicap accessible due to the lack of clearances, grab bars, appropriate toilet and sink fixtures and/or lever style faucets. Some of these toilet rooms also do not have compliant ADA signage. Updating this toilet room in accordance with current code should be considered. Quantity: 16 toilet rooms Locations: 107A, 104A, 105A, 102A, Speech 106D, 103A,, Nurse 106C, Boces 101, Coaches Office, Faculty Room, 113A, 110A, 115A, 112A, 117A, Toilet Near Psych. Office on second floor</p>						

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Y	ADA	1	3	CS-A15	Update Drinking Fountains to be Handicap Accessible	\$6,000
<p>Several non-accessible drinking fountains exist throughout the building. These drinking fountains should be updated to satisfy current code. Quantity: 3 drinking fountains Locations: Corridor 100C and (2) Corridor 100E</p>						

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GBI

III-CS-GENERAL BUILDING RENOVATIONS-INTERIOR

RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y	GBI	1	3	CS-A16	Replace Casework	\$562,500
<p>The existing storage and sink systems in classrooms are an assortment of aged units that are no longer functional or aesthetically pleasing or ADA compliant. This casework should be considered for replacement. Quantity: 1250 LF</p>						

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Y	GBI	1	3	CS-A17	Renovate Gym	\$90,000
<p>Four basketball backboards should be considered for upgrade to fiberglass and the scoreboard system is outdated and should be replaced. Additionally, the existing wall pads have reached the end of their useful life and should be considered for replacement (Quantity: 150 LF). The wood flooring in this space is in need of sanding, restriping and resurfacing (Quantity: 3,750 SF) and the existing wood bench at the window wall should be considered for replacement</p>						

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Y	GBI	1	2	CS-A18	Cafeteria, Kitchen & Receiving	\$429,000
<p>A cafeteria addition is required to reduce the amount of lunch periods. Renovation of the existing kitchen and loading dock areas should be considered during addition construction. Addition quantity: 1,300 SF Kitchen/loading renovation: 2,300 SF Corridor renovation: 300 SF</p>						

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Y	GBI	1	3	CS-A19 Platform Stage Floor Finish	\$7,500	I M A G E
				Sand and resurface existing stage floor. Quantity: 750 SF		
Y	GBI	1	3	CS-A20 Main Office and Nurse	\$251,500	I M A G E
				The main office space is inadequate and requires additional space. The nurse and social worker space should be reconfigured as well. Addition quantity: 900 SF Renovation quantity: 1,100 SF		
Y	GBI	1	3	CS-A21 Replace Acoustic Ceiling Tile	\$298,675	I M A G E
				Many spaces have 12"x12" acoustic ceiling tile that is worn and should be considered for replacement. Quantity: 45,950 SF		
Y	GBI	1	3	CS-A22 Replace Asbestos Plaster Ceiling	\$30,000	I M A G E
				Some spaces have asbestos containing ceiling plaster that should be considered for replacement. Quantity: 1,175 SF Replace with Acoustical Ceiling		
Y	GBI	1	3	CS-A23 Replace Asbestos Plaster Wall Finish	\$1,270,000	I M A G E
				Many spaces have asbestos containing wall plaster that should be considered for replacement. Quantity: 38,500 SF Replace with (1) Layer of gypsum board and wall tile		
Y	GBI	1	2	CS-A24 Replace Kitchen Lockers	\$1,800	I M A G E
				The existing lockers in the kitchen/receiving area are worn and should be considered for replacement. Quantity: 6 LF		
Y	GBI	1	2	CS-A25 Replace Aged Blackboards / Tack boards	\$33,600	I M A G E
				Several aged blackboard / tack board units exist throughout the building. These units should be considered to be replaced with new whiteboard (dry erase) / tack board units. Quantity: 480 LF whiteboards / tack boards Locations: 103, Faculty, 113, 115, 117, 110, 112, 114, 119, 116, 208, 206, 204, 202, 200, 209, 207, 205, 203, 201		
Y	GBI	1	2	CS-A26 Replace Aged Window Treatments	\$38,400	I M A G E
				Existing window treatments throughout the building should be considered for replacement. Quantity: 800 LF		

Y	GBI	1	2	CS-A27 Library	\$764,875		
The existing library is too small and does not accommodate more than one class. An addition is suggested as well as renovation and relocation of existing spaces throughout the building to allow for relocation of the library. Addition quantity: 1,850 SF Renovation quantity: 6,075 SF							I M A G E
Y	GBI	1	3	CS-A28 Abate 9"x9" Vinyl Asbestos Floor Tile	\$22,000		
The 9"x9" vinyl asbestos floor tile is worn and should be considered for replacement. Quantity: 900 SF Locations: Stage Stair, 119, 119 Storage, Storage near Stair, Second Floor Janitor							I M A G E
Y	GBI	1	3	CS-A29 Replace Aged Unit Ventilator Shelving	\$216,000		
The unit ventilator shelving is aged and should be considered for replacement. Quantity: 540 LF Locations: 107, 105, 103, 101, 104, 102, 116, 118, 120, 122, 125, 123, 121, 119, Library, Library Office, 201, 203, 205, 207, 209, 208, 206, 204, 202, 200							I M A G E
Y	GBI	1	3	CS-A30 Cracked Terrazzo	\$1,200		
There are several locations in the building where the existing terrazzo flooring has cracked and it is recommended to patch these locations. Quantity: 30LF Locations: Corridor 100F and Corridor 100E							I M A G E
Y	GBI	1	m	CS-A31 Inst. Music 119	\$500		
Existing wall acoustical treatments are not performing as designed, it is recommended that these units be replaced. Quantity: 30 SF							I M A G E
Y	GBI	1	m	CS-A32 Minor Masonry Wall Cracking	\$1,000		
Masonry walls in RM 103 have a small vertical separation of the joint between the exterior wall and the interior partition. Provide elastomeric caulk to seal the joints at these locations. Quantity: 20 LF							I M A G E
Y	GBI	1	3	CS-A33 Lack of Control Joints	\$5,000		
Wall cracking was observed at Corridor 100A due to a lack of masonry control joints. Recommend new masonry control joints be cut into these walls at the corners of door and window openings at 5' off of the corners and at a 15' maximum spacing.							
Y	GBI	1	3	CS-A34 Control Joint Cracking	\$5,000		
Control joints above the door openings throughout the 1960 addition are filled with hard mortar and have cracked. The mortar should be removed and replaced with a flexible joint material. Quantity: 60 LF.							

Y GBI 1 m **CS-A35 Masonry Cracking Above Opening** \$0
 There is a masonry crack above an opening in the second floor fan room. This crack should be monitored to verify that cracking is not progressing.



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GBE **IV-CS-GENERAL BUILDING RENOVATIONS-EXTERIOR**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBE 1 2 **CS-A36 Replace Roof** \$814,500
 The entire roof has gone beyond the warranty period and replacement of the entire roof is suggested. Quantity: 45,250 SF

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Y GBE 1 m **CS-A37 Re-caulk Window Sills** \$1,500
 On the east side of the school, most of the window sill caulking is failing and needs replacement.



Y GBE 1 3 **CS-A38 Replace Louvers** \$10,500
 Many of the louvers installed on this building have reached the end of their useful life and should be replaced. Quantity: (30) louvers.



Y GBE 1 3 **CS-A39 Replace Concrete Pads and Re-Caulk** \$2,500
 Some concrete pads outside of exits are cracked and need replacing. One is located by the Gymnasium and the other outside of Corridor 100F. Both concrete pads should be considered for replacement as well as re-caulking the area.



Y GBE 1 2 **CS-A40 Replace/Add Roof Ladders** \$5,500
 The main roof ladder is corroded and has reached the end of its useful life and should be considered for replacement. A ladder is also needed to reach the second height of the roof.



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Y GBE 1 2 **CS-A41 Replace Deteriorated Exterior Doors** \$12,000
 Several exterior doors are deteriorated and should be replaced. Quantity: 4 exterior doors Locations: Storefront assembly at end of Corridor 100A, Cafeteria 109, Boiler Room

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Y GBE 1 3 **CS-A42 Repair Exterior Expansion/Control Joints**
 Caulking and expansion floor hardware at existing expansion joints has deteriorated and is in need of replacement. Quantity: 70 LF of caulking and 30 LF of floor expansion Locations: Outside of Office 106A, Outside of Elevator First and Second Story, Exterior wall in Boiler Room

\$4,200



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Y GBE 1 2 **CS-A43 Replace Concrete Chimney Cap**
 The concrete chimney cap is deteriorated and is recommended to be replaced.

\$1,000



Y GBE 1 3 **CS-A44 Provide Walkway Pads**
 Walkway pads should be added to help protect the roof.

\$2,500

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Y GBE 1 2 **CS-A45 Replace Exterior Window Systems**
 Several exterior windows systems consist of Kalwall, non-thermally insulated glass that has reached the end of its useful life. These windows should be replaced with units providing dual glazing, greater thermal performance, improved energy efficiency, and greater ease of operation for ventilation and emergency egress (where appropriate). Quantity: 5 units, totaling 1,000 SF of glass. Locations: Cafeteria 109 and Gym 120

\$80,000

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Y GBE 1 3 **CS-A46 Replace Overhead Doors at Storage Room**
 The overhead doors (approx. 6'x7' ea) at the gym storage rooms are worn and should be considered for replacement with fire rated overhead doors. Quantity: (2) overhead doors.

\$6,000

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Y GBE 1 m **CS-A47 Paint Exterior Railings**
 The exterior railings located at the end of Corridor 100C should be considered to receive a new painted finish to improve material longevity and aesthetics. Quantity: (1) double door.

\$1,500



Y GBE 1 m **CS-A48 Spalling Concrete**
 Much of the exterior concrete foundation is beginning to spall. Loose concrete should be removed and surface repairs with a concrete patch should be used.



\$2,500





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 Airport Corporate Park, 100 Hunt Center
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 P: 607-358-1000
 F: 607-358-1800

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In Project	Category	Year	Priority	Mechanical Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-CS-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i>		
Y	HS	1	3	CS-M1 Inadequate or Non-Existent Ventilation in Occupied Spaces A number of rooms currently feature no ventilation in the form of fresh air supply and, as they are occupied spaces, it is required. Provide fresh make up air at a rate in accordance with code and offer relief for exhausting the space. Effected Areas: 1st Floor Faculty, Coach Office, Office opposite Room 119, Room 108.	\$30,000	I M A G E
Y	HS	1	3	CS-M2 Elevator Machine Room Ventilation A strong petroleum smell is present in the common corridor in the immediate vicinity of the elevator mechanical rooms. This chemical fume smell is of course stronger in the mechanical room itself, and is a result of the space being under ventilated. Ventilation rate for this space should be increased to properly exhaust all fumes. Mechanical Room opposite Boiler Room.	\$7,500	I M A G E
Y	HS	1	3	CS-M3 Install Proper Ducting For Relief Air Currently, a majority of occupied and storage spaces feature a relief air path that transfers to the corridor plenum or directly into the corridor. This does not meet current code. and furthermore, many instructors complain of extreme cold drafts entering classrooms from these relief air grilles. This was field verified. Install appropriate ducting and/or fire/smoke dampers in in these openings in accordance with current code as well proper exhaust units. Majority of classrooms and offices, approximately 35 rooms.	\$50,000	
Y	HS	1	2	CS-M4 Improve Kitchen Ventilation and Provide MUA Hood There is currently not enough supply air for ventilation and comfort levels in the kitchen. The oven hoods should be replaced with new units featuring dedicated make up air supply serviced by a roof top unit. Furthermore, conditioned supply air should be ducted to the space to improve temperature control and comfort level.	\$25,000	

GBI **II-CS-GENERAL BUILDING RENOVATIONS**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBI 1 2 **CS-M5 Boiler and Steam System Replacement** **\$1,400,000**

The current building heating system is mixture of piped steam and hydronic, all of which is heated by two cast iron steam boilers. These boilers have surpassed their intended service life and operate with an outdated, overcomplicated, and inefficient form of heating. It is recommended these boilers be replaced with new, high efficiency hot water boilers, and all piping and terminal end units associated with steam be replaced with a hot water hydronic system and compatible components.



Y GBI 1 1 **CS-M6 Replace Office Suite Air Handling Unit** **\$0**

The air handling unit serving the main office suite is reaching the end of its useful life and should be replaced. The district should consider a design which moves the existing exterior ductwork into an interior mechanical space as well as the air handling unit.



Y GBI 1 1 **CS-M7 Replace Pneumatic Controls with DDC** **\$0**

The existing pneumatic HVAC controls system is outdated, difficult to manage, and requires constant maintenance. Replace of this system with full DDC capability at all central and terminal equipment is recommended.

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Y GBI 1 2 **CS-M8 Emergency Boiler Shutdown Switch in Common Corridor** **\$1,500**

There is currently 1 emergency boiler shutdown switch outside the boiler room in the general corridor. If these switches are still operable, this is a major concern as they are easily accessible by students or other persons. If they are no longer operable, this could lead to a misleading situation in the event of an emergency. These switches should be removed completely and proper emergency break glass switches installed according to code.



Y GBI 1 2 **CS-M9 Convective Heating Elements Too Hot** **\$24,000**

The majority of the convective heaters in the corridors as well as bathrooms and other occupied offices are heated with steam. Furthermore, the surfaces of these heaters which is directly accessible to students and staff is hot enough to present a safety concern, as well as the damage of the surrounding case-work or wall material. The temperature of these elements should be reduced or proper steps taken to decrease their surface temperature. Approximately 12 examples.



Y GBI 1 2 **CS-M10 Replace Exhaust Fan in Corridor 100B** **\$5,000**

The exhaust fan located in the storage closet in Corridor 100B is exhibiting a high amount of vibration and noise. The vibrations and noise are so pronounced, its effect can be heard through the exhaust vents in other parts of the building which it serves. The fan is beyond its useful service and life and should be replaced.



Y GBI 1 2 **CS-M11 Upgrade Plumbing Fixtures to Touch-Free** **\$12,000**

Touch-free plumbing fixtures are much more sanitary and waste less resources. Replace all fixtures in public bathrooms with touch-free units. Approximately 40 examples.



Y GBI 1 m **CS-M12 Clay Solids Trap for Art Room Sinks** **\$1,000**

The sinks in use in the art classroom of Room 209 are not currently installed with solid waste traps for the collection of clay and other solids resulting from art instruction. Introduction of this material directly into the sanitary will lead to costly clogs and decrease the service life of the sanitary system. An appropriate solids trap should be installed in accordance with code.

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Y GBI 1 3 **CS-M13 Replace Older Corridor Drinking Fountains**

\$7,500

Many of the corridor drinking fountains should be replaced as they are past their service life, aesthetically in disrepair, and are not ADA compliant. Replace with ADA compliant and preferably water cooled units in accordance with code. 3 examples.



Y GBI 1 2 CS-M14 **Replace Bathroom Fixtures with Low Flow Units**

\$40,000





The current bathroom fixtures installed in public, classroom, and office bathrooms are outdated and inefficient. Replacement of these fixtures with new, high efficiency, low flow units will decrease unnecessary waste of domestic water and greatly extend the service life of the toilet rooms. Approximately 40 examples.





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 Airport Corporate Park, 100 Hunt Center
 Horseheads, NY 14845-1019
 P: 607-358-1000
 F: 607-358-1800

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In Project	Category	Year	Priority	Electrical Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-CS-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i>		
Y	HS	1	1	CS-E1 Exit Egress Signage Replace dim and non-working exit fixtures that violate life safety code requirements. Replace with new energy efficient LED fixtures for increased savings. Provide additional exit fixtures where required to meet life safety code requirements. (estimate assumes 30 fixtures)	\$6,000	
Y	HS	1	1	CS-E2 Arc Flash Labeling The current electrical system has not been Arc Flash rated and labeled in accordance with NEC 70E code. Provide testing and proper labeling to meet NEC code requirements.	\$5,725	 I M A G E
Y	HS	1	1	CS-E3 Fire Alarm Audio / Visual Notification Devices Provide additional Fire Alarm Audio / Visual notification devices in occupied spaces to comply with NFPA requirements. (estimate assumes 8 locations)	\$1,600	I M A G E
Y	HS	1	2	CS-E4 Exterior Emergency Egress Lighting Provide NFPA Level 1 compliant exterior emergency egress lighting adjacent to all exterior egress doors to meet life safety code requirements. (estimate based on 8 locations)	\$2,800	
	GBI			<u>II-CS-GENERAL BUILDING RENOVATIONS-INTERIOR</u> <i>RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.</i>		
Y	GBI	1	3	CS-E5 T8 Lighting Upgrades In areas lit with T8 lamped fixtures with electronic ballasts. Replace fixtures with new LED lit fixtures for increased energy and maintenance savings. Reuse existing wiring and controls.	\$343,500	 I M A G E

Y GBI 1 1 **CS-E6 Incandescent Lighting Upgrades** **\$1,500**
 In areas lit with incandescent lamped fixtures; replace fixtures with new LED lit fixtures for increased energy and maintenance savings. Reuse existing wiring and controls.



Y GBI 1 3 **CS-E7 Occupancy Sensors** **\$35,000**
 Provide occupancy sensors in all areas not currently having coverage, to comply with NYS energy code requirements and for increased energy savings. (estimate assumes 70 locations)

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Y GBI 1 3 **CS-E8 Daylight Harvesting Lighting Sensors** **\$45,000**
 Provide daylight harvesting sensors to comply with NYS energy code requirements and for increased energy savings. (estimate assumes 60 locations and includes cost of ceiling panel)

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Y GBI 1 3 **CS-E9 Ceiling Mount Projector Power** **\$15,000**
 Classrooms with ceiling mount projectors have non-code compliant above ceiling receptacle connections. Relocate all above ceiling receptacles into the ceiling grid panel. (estimate based on 15 installations and includes cost of ceiling panel)



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Y GBI 1 3 **CS-E10 Provide Additional Power Outlets** **\$10,000**
 Provide additional receptacles and circuitry in various locations to discourage the use of extension cords and power strips.

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GBE **II-CS-GENERAL BUILDING RENOVATIONS-EXTERIOR**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.






Y GBE 1 3 **CS-E11 Replace Exterior Canopy & Wall Mount CFL Fixtures** **\$6,750**
 Replace existing compact fluorescent lamped canopy and wall mount fixtures. Replace with new LED light fixtures for increased energy savings and reduced maintenance costs. (estimate based on 15 fixtures)





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 Airport Corporate Park, 100 Hunt Center
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 P: 607-358-1000
 F: 607-358-1800

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In Project	Category	Year	Priority	Technology Recommendations	Estimate	Thumbnails (if any)
	SBI			<u>I-CS-SMART SCHOOLS BOND INVESTMENT</u> SMART SCHOOLS BOND INVESTMENT PLAN		
Y	SBI	1	1	CS-T1 Network Data Closet Improvements There are two network rooms in Center Street Elementary. One is located in a shared storage room and should be isolated by relocating to an adjacent secured room. The next room down is perfect size and would require minimal architectural improvements to dedicate the space. This room would should get typical environmental improvements. CER B is located in a shared bathroom & storage area. This data room should be relocated to the adjacent storage area, using architectural improvements to provide a dedicated space with corridor access. All data rooms will should be secured spaces with air conditioning, UPS on proper power, new 10G fiber optic backbone, new patch cables and wire management.	\$178,000	
Y	SBI	1	1	CS-T2 Network Electronics Upgrade The network electronics should be upgraded and reconfigured to maximize bandwidth to the end user. The switches should be capable of 10 Gbps connection to the network backbone and share at least 20 Gbps with the other switches in the data room. They should also be sized with proper power supplies so that PoE+ devices can be powered via the switch.	\$80,000	
Y	SBI	1	1	CS-T3 Security Video Surveillance The district has begun to phase out the existing analog cameras and DVRs but a complete replacement of the DVR with video recording servers will provide the district with a single, simplified video management system that is versatile and easily expandable. The district has purchased some of the equipment to continue the process however labor, cabling and some additional equipment is needed. The district should focus on corridor, stairwell, entrance and parking lot coverage.	\$50,000	
Y	SBI	1	1	CS-T4 Upgrade Network Data Cabling The existing building data cabling is in unsatisfactory condition in some areas of this section of the building. Both data rooms are potentially being relocated which would require recabling, at which point this issue will be addressed for this section of the high school. The recommendation is to reduce classroom data outlets as wireless will become widely used. Classrooms would receive four data drops each.	\$204,000	
Y	SBI	1	1	CS-T5 Wireless Network Infrastructure To account for more widespread use of wireless devices and the need for a flexible wireless network to support student used devices, the wireless network should be upgraded to the most current wireless-AC standard and expand coverage to all classrooms. Capacity should also be considered so the district has the ability to deploy 1-2-3 devices per student.	\$75,000	
Y	SBI	1	1	CS-T6 Voice over IP Phone System	\$0	

Included in High School South



GBI

II-CS-GENERAL BUILDING RENOVATIONS-INTERIOR

RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBI 1 1

CS-T7 IP Video Distribution to Replace Cable Infrastructure

\$30,000

The current system is very old and the low and high band channels provide poor viewing quality. The district should look to upgrade this system to an IP based system allowing content and channels to be broadcast over the Local Area Network. This would provide teachers and students with flexible cable & content TV system accessible anywhere.





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 F: 607-358-1800

Center Street

In Project	Category	Year	Priority	Food Service Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-CS-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i>		
Y	HS	2	1	CS-FS1 Replace Exhaust Hood The original Exhaust hood is very old and does not comply with NFPA code 96 (no grease cup or perimeter trough and the grease filters are mesh) and hood does not appear to be fully welded. The exhaust duct is not fire wrapped and has direct contact with combustible material (ceiling tile). In addition the paint is peeling on the interior of the hood and potentially falling on the food (DOH violation). Recommend replacing with an energy efficient exhaust hood within the next 1-2 years with new duct work & roof top. (\$30,000.00 – does not include fans or duct work).	\$30,000	I M A G E
Y	HS	2	1	CS-FS2 Install Fire Suppression System There is no Fire Suppression System installed in the hood per NFPA code 96 requirements. Recommend installing a Fire Suppression System ASAP.	\$3,500	I M A G E
Y	HS	2	1	CS-FS3 Reinstall Steamer Market Forge Steamer is not correctly installed and a potential liability for a mishap. The unit is installed on a stack of quarry tile (8 high). Recommend installing the steamer directly on the quarry tile floor or construct a permanent raised platform.	\$0	I M A G E
Y	HS	2	1	CS-FS4 Replace Warming Cabinet Metro warming cabinet are over 22 years old. Recommend replacing within the next 1-2 years with a new energy star rated mobile warming cabinet.	\$5,000	I M A G E
Y	HS	2	1	CS-FS5 Replace Serving Line Custom Serving line is over 40 years old and in need of replacement (no cold food storage, built in milk cooler is rusted and unsanitary, hot food wells old is inefficient and unsanitary, etc...). Recommend replacing the entire serving line within the next 2-3 years with a new modular 4 well hot food unit, refrigerated cold food merchandiser, ice cream unit, free standing milk dispenser and cashiers station.	\$80,000	I M A G E

Y	HS	2	1	CS-FS6	Replace Floor Mixer Hobart floor mixer is over 25 years old and not equipped with a bowl safety guard and the paint is chipping. Recommend replacing the unit within the next 2-3 years with a unit outfitted with a bowl safety guard.	\$8,000	I M A G E
Y	HS	2	1	CS-FS7	Replace Steamer Market Forge Steamer is almost 20 years old and has a 200K BTU boiler base that appears at one time feed the steamer and kettle. A new self-contained Cleveland kettle was purchased eliminating the requirement for the boiler. Recommend replacing the steamer with new efficient energy star rated unit to reduce the gas BTU demand within the next 2-3 years.	\$15,000	I M A G E
Y	HS	2	1	CS-FS8	Replace Walk-In Cooler Step-up walk-in cooler is in very poor condition and potentially a tripping liability. Recommend replacing cooler with new refrigeration system and shelving within the next 1-2 years.	\$25,000	I M A G E
Y	HS	2	1	CS-FS9	Add Freezer Storage Frozen food storage appears to be inadequate. Recommend adding an additional 2 door freezer or a walk-in freezer (combo with cooler) when kitchen is renovated.	\$7,000	I M A G E
Y	HS	2	1	CS-FS10	Replace Ceiling The ceiling tiles are soiled & damaged and this type of tile does not comply with NYS SED requirements (washable non-pores type). Recommend replacing entire ceiling with compliant tiles.	\$0	I M A G E
Y	HS	2	1	CS-FS11	Replace Dishwasher Hobart Dishwasher is over 30 years old. Recommend replacing the dishwasher within the next 3-4 years with a unit with built in booster heater and heat reclaim to reduce the energy footprint (electric, water, waste, exhaust).	\$40,000	I M A G E
Y	HS	2	1	CS-FS12	No Paper & Food Storage There is no paper or dry food storage in the kitchen. Recommend storing paper and dry food in a separate room to mitigate clutter and combustible materials from being stored in the kitchen.	\$0	I M A G E
Y	HS	2	1	CS-FS13	Add Hand Sinks Staff is currently using a 2 compartment sink for hand washing (no designated hand sink available in kitchen). Recommend adding 2 hand sinks when kitchen is fully renovated.	\$1,200	I M A G E

Y HS 2 1 **CS-FS14 Renovate Kitchen**

\$60,000

We recommend renovation of the entire kitchen/serverly within the next 5 years to allow staff greater flexibility with food offerings and food flow. Add an additional \$60,000 for foodservice replacement items related to a kitchen renovation, i.e. dishtables, paintleg duct, sinks, worktables, mop sink, etc...

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 Horseheads, NY 14845-1019
 P: 607-358-1000
 F: 607-358-1800

Center Street

In Project	Category	Year	Priority	AutoNum	Theatrical Recommendations	Estimate	Thumbnails (if any)
	HS			I	<u>I-CS-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i>		
Y	HS	1	1	1	CS-TH1 Room Acoustics The acoustics in this space are acceptable for a cafeteria style space. Significant improvements in acoustics would require a major ceiling tear out, a high NRC ceiling tile and gridwork and additional, specialized acoustic treatments on the walls below 8' - 0" AFF. These lower wall treatments are easily soiled, and, as such, are not typically embraced from a maintenance standpoint.	\$30,000	I M A G E
Y	HS	1	1	2	CS-TH2 Audio System The existing audio system in this space is old and inadequate. A new audio system is recommended. Lower budget includes basic automated audio system with hearing assistance, amplification, processing and speakers. Upper budget includes an audio console, wireless microphones and related cabling, better speakers, a portable control panel and portable cases.	\$80,000	I M A G E
Y	HS	1	1	3	CS-TH3 Lighting System The existing lighting system consists of a few par cans in the ceiling and a borderlight fixture on stage. These are inadequate for theatrical use and the borderlight is a large energy drain. Lower budget includes new LED stage and front of house wash fixtures and an architectural control system. Upper budget includes additional wash & ellipsoidal LED lighting fixtures, connector strips, a small lighting console, distribution and a small relay rack.	\$65,000	I M A G E
Y	HS	1	1	4	CS-TH4 Houselighting System The existing fluorescent houselighting system appears to be adequate; however, upgrades could be made to convert the existing system to a completely LED based system (depending on the type of lamps in the fluorescent fixtures). Lower budget includes replacing existing fluorescent tubes with LED tubes, providing that the existing tubes are T8 style. Upper budget includes replacing existing fluorescent tubes with LED tubes if the existing tubes are T5 style, and includes any necessary wiring changes.	\$8,000	I M A G E
Y	HS	1	1	5	CS-TH5 Stage Rigging System 1) Most of the stage sets have been suspended by light duty chain not approved for overhead lifting and with open S hooks or open chain links. 2) The trim chains on stage do not have safety bolts. Safety bolts should be added to all stage batten trim chains. This is a subject of discussion in the rigging industry, but properly installed safety bolts are a recommended safety feature. 3) Some beam clamps have been installed so that they span over conduits or have been attached to by more than one point and at severe angles not recommended by the manufacturer. Some of these items cannot be corrected unless additional spanning steel, etc. is installed and some electrical conduits moved.	\$6,000	I M A G E

Y HS 1 1 6 **CS-TH6 Stage Rigging System - Improvements** **\$45,000**

The existing stage rigging system has been installed with light duty chain not approved for overhead lifting and in an unsafe manner. It is recommended that the entire system be replaced. All portions of the stage rigging system are suspended from unknown attachment points. These should be field inspected by a structural engineer in order to determine their suitability for use. No budget has been given if the structural components are determined to be inadequate.

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y HS 1 1 7 **CS-TH7 Stage Rigging System - Curtain Tracks** **\$10,000**

The stage curtains are all IFR (inherently flame retardant) and are circa 2008. These curtains are durable, if not attractive, and still have over half of their useful life available. The existing curtain tracks are very old, in poor condition and should be replaced. Budget includes new curtain tracks, operating lines and sandbag weighted floor pulleys. The window curtain has an unusual vinyl backing on it and an approx. age could not be determined; however, the curtain appears to be in good working order and can be retained.

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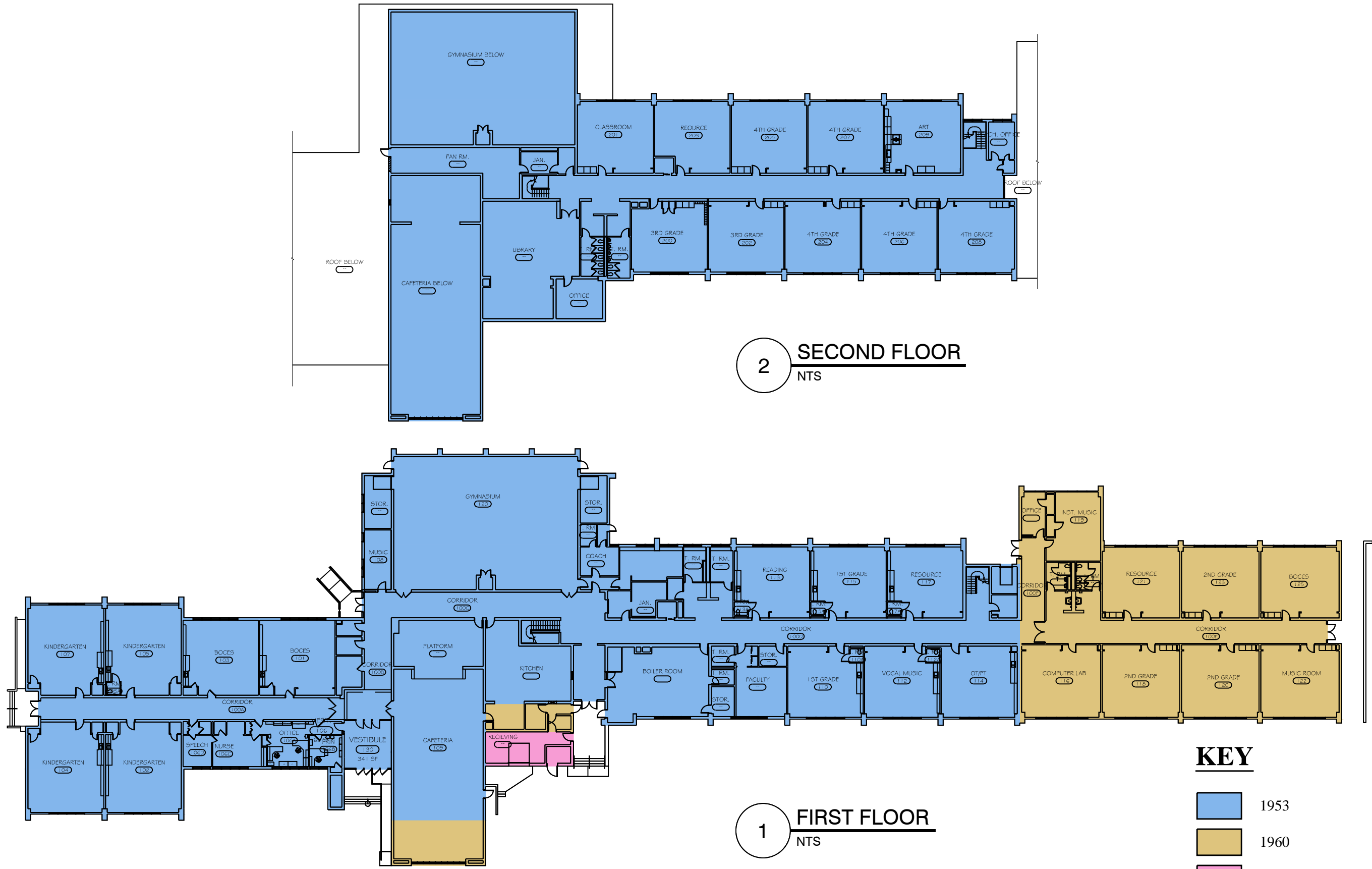
Y HS 1 1 8 **CS-TH8 Video Presentation System** **\$17,000**

No existing projector was located and the existing projection screen is damaged. It is recommended that the system be upgraded with a new projection screen and portable projector with a stage input. Budget includes new portable HD projector & cart, motorized 16:9 video screen and one stage input location.

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S.E.D. BUILDING CONDITION SURVEY

KEY PLANS



CENTER STREET ELEMENTARY

FLOOR PLANS HORSEHEADS CENTRAL SCHOOL DISTRICT

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SYSTEMS DESCRIPTIONS



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Big Flats

Site Description

GENERAL BUILDING INFORMATION

Fuel Oil: None noted

Potable Water: Drinking water is supplied to the building by the municipal water system

Sanitary: Sanitary conveyance to municipal treatment facility

Electric: Electrical power is provided by NYSEG

Natural Gas: Natural gas is provided by NYSEG

Stormwater: Stormwater runoff from building and grounds sheet drain to catch basins and field areas.

Cable/Internet: Television and Internet services are provided to the main building by Time Warner Cable.

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

West Parking Lot:

Age- Varies

Expected remaining useful life- 2 years

Rating- Unacceptable

Description: Located to the west of the building is a 55-car asphalt paved parking lot in poor condition

South Bus Loop, Entry Drive and Parking:

Age- Varies

Expected remaining useful life- 2 years

Rating- Unsatisfactory

Description: Located to the south of the building is a 24-foot wide asphalt paved bus loop. Parking access is provided off of main entrance and exit loop.

Sidewalk:

Age- Varies

Expected remaining useful life- 5-10 years

Rating- Unsatisfactory

Description: The school has a concrete sidewalk system that provides access to the school from the bus loop and points on the west side of the building. The section of walkway along the bus loop is a 6-foot wide walkway with a concrete curb between the edge of drive and sidewalk. The building has two entrance ways that are perpendicular to the bus loop.

Handicap Ramp:

Age- Varies
Expected remaining useful life- 5-10 years
Rating- Satisfactory

Description: At the building on the west side of the main entrance is a concrete handicapped ramp.

ATHLETIC FIELD DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Soccer Field:

Age- Unknown
Expected remaining useful life- 10-15 years
Rating- Satisfactory

Description: Located to the north of the building is a soccer field that is used by school students.

Playground Equipment:

Age- Varies
Expected remaining useful life- 2-5 years
Rating- Satisfactory

Description: Located to the north of the building is a playground in satisfactory condition. The play equipment appears to have adequate safety surfacing. Adjacent asphalt play area is in fair condition.



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Mechanical Description

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Boilers:

Age- 55 Years
Expected remaining useful life- 5 Years
Rating- Satisfactory

Description: 2 Cleaver Brooks fire tube steam boilers provide heated steam for the heating system, which travels to terminal units throughout original portions of the building. This steam is also used to heat water in a heat exchanger to be used for hot water hydronic supply for terminal units in newer additions to the building.

Domestic Water Systems:

Age- 55 Years
Expected remaining useful life- 5 Years
Rating- Satisfactory

Description: The water supply is municipal.

Domestic Hot Water:

Age- 11 Years
Expected remaining useful life- 5 Years
Rating- Satisfactory

Description: 1 A.O. Smith hot water heater located in the boiler room provides heated water for the domestic water supply.

Sanitary and Storm Systems:

Age- 55 Years
Expected remaining useful life- 5 Years
Rating- Satisfactory

Description: The sanitary waste from the school empties to municipal systems.

Classroom Ventilation/Heat:

Age- 50 Years, 11 Years

Expected remaining useful life- 5 Years, 20 Years

Rating- Satisfactory

Description: All classrooms feature unit ventilators for heating and ventilation. A majority of these units have been replaced in 2004, however those in the 1965 addition are still original. At one time, relief air in most classrooms was transferred to the corridor plenum. However, subsequent additions and improvement projects have rendered much of these air paths inoperable.

Kitchen:

Age- 11 Years

Expected remaining useful life- 10 Years

Rating- Satisfactory

Description: Supply air to the kitchen area transfers from the cafeteria through and doorways. Air is exhausted through exhaust grilles over food prep area installed in 2004, dishwashing hood, and 1 oven hood installed in 2004. Heat is provided through unit heaters and cabinet heaters.

Gymnasium:

Age- 11 Years

Expected remaining useful life- 20 Years

Rating- Satisfactory

Description: 1 air handling unit located in the mechanical penthouse above an adjacent corridor provides heating and ventilation to the gymnasium. Supply and return are ducted to and from the space.

Cafeteria:

Age- 11 Years

Expected remaining useful life- 20 Years

Rating- Satisfactory

Description: 1 air handling unit located in the mechanical penthouse above an adjacent corridor provides heating and ventilation to the Cafeteria. Supply and return are ducted to and from the space.

Library, Computer Lab:

Age- 11 Years

Expected remaining useful life- 20 Years

Rating- Satisfactory

Description: 1 roof top air handling unit provides heated, cooled, and ventilated air to the library. Supply and return air is ducted to the space and heating is supplemented by perimeter radiation. Library, Room 303.

Office Suite:

Age- Main Office Suite: New

Faculty Office Suite: 50 Years

Expected remaining useful life-

Rating- 20 Years, 0 Years

Satisfactory, Unsatisfactory

Description: A newly renovated Main office suite features 1 unit ventilator, perimeter radiation, and 2 ductless split ac units; Rooms 106, 108, and 110. The faculty office suite opposite the corridor features perimteter radiation and numerous ductless split ac units.



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Electrical Description

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Emergency / Stand-by Power System:

Age- 7 years
Expected remaining useful life- 23 years
Rating- Satisfactory

Description: Building is backed-up via a Cummins diesel fuel back up generator. There are two separate Automatic Transfer Switches serving both Life safety and Standby powerloads, adhering to NFPA Level 1 design standards.

Exit Egress Path Signage

Age- 12 years
Expected remaining useful life- 3 years
Rating- Unsatisfactory

Description: Exit signage is comprised of both LED lit and unlit graphic adhesive stickers. The majority of the Exit fixtures are either unlit or very dim and do not clearly identify path of egress.

Interior Emergency Egress Lighting

Age- 7 to 12 years
Expected remaining useful life- 3 to 13 years
Rating- Satisfactory

Description: Limited corridor fluorescent fixtures are connected to the Life Safety power circuits providing emergency lighting along path of egress within building corridors.

Exterior Emergency Egress Lighting

Age- 1 year
Expected remaining useful life- 19 years
Rating- Unsatisfactory

Description: Exterior emergency lighting is limited to primary secured entrances constructed 2014-2015 school year. The remainder of exterior doors lack emergency lighting.

Fire Alarm Systems:

Age- 7 to 12 years
Expected remaining useful life- 13 to 9 years
Rating- Satisfactory

Description: The Fire Alarm system is a Notifier AFP-400 fully addressable system. Detection and notification devices appear to be adequate; although additional devices are required at various locations to comply with current life safety codes. The system also provides the code required shut down of mechanical equipment upon alarm activation.

General Lighting:

Age- 7 to 26 years
Expected remaining useful life- 13 to 3 years
Rating- Satisfactory

Description: The majority of building's lighting consists of fluorescent T8 lamped fixtures containing electronic ballasts.

Building Mount Exterior Lighting

Age- 16 years
Expected remaining useful life- 4 years
Rating- Satisfactory

Description: The exterior building mount lighting consists of a mix of HID, and compact fluorescent fixtures controlled via photo-cells and/or time clocks.

Electrical Service Entrance:

Age- 10 years
Expected remaining useful life- 40 years
Rating- Satisfactory

Description: 120/208V, three phase, four wire, fed underground to 1200A GE Spectra switchgear. Distributed to 120/208V, 1200A MDP-1.

Electrical Power Distribution Panels:

Age- 7 to 59 years
Expected remaining useful life- 23 to 1 year
Rating- Satisfactory

Description: The electrical distribution panels vary from new up to date panels to some older original vintage construction panels. The original construction panels have exceeded their useful life. The building's power distribution equipment does not comply with current NEC 70E code requirements for testing and labeling of Arc Flash ratings.

Wiring Devices

Age- 59 years
Expected remaining useful life- 1 year
Rating- Unsatisfactory

Description: The majority of the electrical wiring devices in the building date to the original vintage construction and have exceeded their expected useful life. Several receptacles are not GFCI protected per current NEC code requirements. Several classrooms have concealed ceiling mounted projectors that connect to a receptacle above the ceiling which is a violation of current NEC code requirements.

Motor Starters:

Age- 25 years

Expected remaining useful life- 5 years

Rating- Satisfactory

Description: Large HP 3 phase motors throughout the facility are equipped with inefficient magnetic motor starters.



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Big Flats

Technology Description

Data Network Infrastructure:

Age- 10-15 Years

Expected remaining useful life- 1-3 Years

Rating- Unsatisfactory

Description: Big Flats Elementary School is connected to the District's Network via Southern Tier Network and the current electronics support a 1 Gbps connection over this link. The building has 4 data cabinet locations that connect to each other over OM1 multi-mode fiber and distribute data to classrooms using a mix of Cat5 & 5e twisted pair cabling. Patch cabling is mostly cat 5. All locations are shared spaces and utilize wall mounted racks. There is no air conditioning in either space. The network switches are a mix of 10/100 & 10/100/1000 Mbps and mostly older than 5 years.

Internet Services:

Age- NA

Expected remaining useful life- NA

Rating- Satisfactory

Description: Internet service is received through GST BOCES via the Southern Tier Network leased fiber.

Voice Systems:

Age- 10-15 Years

Expected remaining useful life- 1-3 Years

Rating- Unsatisfactory

Description: The existing phone system is a digital PBX solution that is no longer supported. It has voice mail and auto attendant features however lack of support makes these features vulnerable to downtime in the event of a hardware failure. The system is connected to the district wide system allowing dialing and call routing within district. Office locations have digital hand sets and all classroom phones are analog sets using Cat3.

Wireless Technologies:

Age- 5-7 Years

Expected remaining useful life- 3-5 Years

Rating- Unsatisfactory

Description: Currently there is a Cisco wireless solution witch consists of wireless access points that connect to a wireless controller. Most access points are deployed with external antennas and mounted in some classrooms. Not all instructional areas have reliable wireless coverage.

Paging Systems:

Age-

Expected remaining useful life-

Rating-

Description: The current paging system consists of a small Dukane interface in the main office with remote amplification. The speakers throughout the facility are connected via distributed cabling at cross connect locations.

Clock Systems:

Age- Undetermined

Expected remaining useful life- 7-10 Years

Rating- Satisfactory

Description: A Visiplex clock system serves all instructional, administrative and assembly spaces. The system is controlled by a master clock controller to synchronize the time.

Video Systems:

Age- 10+ Years

Expected remaining useful life- 1-3 Years

Rating- Unsatisfactory

Description: There is cable TV coaxial cable throughout the building. The backbone is distributed from the building entry point via Blonder Tongue amplifiers. There are TV connections and CRT Televisions in most classrooms. The district reports quality problems that a most likely due to signal strength and balance throughout the distribution system.

Classroom Technologies:

Age- Various Ages

Expected remaining useful life- 5 Years

Rating- Satisfactory

Description: Each room is equipped with a smart board with integrated audio. There is also a CRT monitor that utilizes the district's cable TV service.

Computer Labs:

Age- NA

Expected remaining useful life- 5-7 Years

Rating- Satisfactory

Description: Big Flats Elem. has a computer lab available to the students along with several classroom workstations. The computer lab is connected to the LAN using the network cabinet within the room that distributes copper cabling to all the stations. There are approximately 32 current workstations within the lab.

Security Access Control System:

Age- 5-7 Years

Expected remaining useful life- 7-10 Years

Rating- Satisfactory

Description: There is a secured entrance that will allow visitors to enter at the main office only, forcing them to sign in with personnel. It utilizes intercoms at the exterior and controlled doors in the vestibule to control access. There is a panic button in the office that will lock exterior entrances and release fire doors in the building. Most heavily used entrances have access control however door contacts are not present at all exterior door locations.

Video Surveillance:

Age- Various Ages

Expected remaining useful life- 1-3 Years

Rating- Unsatisfactory

Description: There is currently an analog Pelco system installed with coverage at all entrances and select corridors however the district has begun to add megapixel IP cameras to the network and installing video recording server to replace the existing DVR that record the analog cameras. The IP camera upgrades were mostly based around the secured entrance areas. The district purchased some cameras and are rolling them out in phases.



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Big Flats

Theatrical Equipment Description

General Building Information

Room Acoustics

Age- N/A
Expected remaining useful life- N/A
Rating- Average

Description: The room's frequency response and reverberation times are acceptable.

Audio System

Age- N/A
Expected remaining useful life- N/A
Rating- N/A

Description: No existing audio system could be located.

Lighting System

Age- 20+ Years
Expected remaining useful life- At the end of its useful life
Rating- Poor

Description: The lighting system consists of a few par cans and a borderlight on stage, is old, features limited functionality, no flexibility and should be upgraded to modern standards.

Houselighting System

Age- ? Years

Expected remaining useful life- ? Years

Rating- Acceptable

Description: We recommend upgrades to LED tubes for all of the existing fluorescent lights for improved energy savings.

Stage Rigging System

Age- 20+ Years

Expected remaining useful life- At the end of its useful life

Rating- Poor

Description: The stage rigging system has many deficiencies and safety concerns. It should all be replaced.

Stage Rigging System - Curtains

Age- 10+ Years (except two, which are approx. 7 years old)

Expected remaining useful life- <10 Years

Rating- Poor Overall

Description: Two curtains are Inherently Flame Retardant and durable. The remaining ones are FR, need periodic retreatments and display some significant stains and damage

Video Presentation System

Age- 7+ Years

Expected remaining useful life- Near the end of its useful life

Rating- Fair







Description: The existing projector and screen are the wrong format and employ outdated technology.

RECOMMENDATIONS



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Big Flats

In Project	Category	Year	Priority	Site Recommendations	Estimate	Thumbnails (if any)
	GSR			<u>I-BF-GENERAL SITE RENOVATIONS</u> GENERAL SITE RENOVATIONS		
Y	GSR	1	1	BF-L1 Entrance/Exit Drive and Bus Loop Asphalt pavement at entrance drive and bus loop are in poor condition and should be replaced to full depth including subbase. It appears an overlay was done on portions of the bus loop. This pavement is in fair condition but showing signs of reflective cracking. Price includes removal of entire entrance, bus and exit drive to full depth.	\$246,000	
Y	GSR	1	2	BF-L2 Main Parking Lots Main parking lot asphalt pavements are in poor condition and should be replaced to full depth including subbase. New section of pavement was observed toward Maple Street. This area is in good condition and should be sealed and crack sealed.	\$540,000	
Y	GSR	1	3	BF-L3 Concrete Walks Concrete walks are generally in good condition. Many panels have been replaced. Some minor cracking was observed at existing concrete panels. Cost is figured on a percentage of overall walks to replace individual panels.	\$25,000	
y	GSR	1	3	BF-L4 Hard Play Areas and Basketball Court North asphalt hard play area and basketball hoops are in fair condition. Consider doing an asphalt overlay of court after sealing cracks. South asphalt play area is in poor condition and should be replaced to full depth. South area also includes asphalt walks to southern entrances. Cost is for both North and South asphalt play areas.	\$185,000	
Y	GSR	1	3	BF-L5 Replace Basketball Hoops Replace basketball hoops in poor condition	\$6,000	
Y	GSR	1	3	BF-L6 Playgrounds Playground appears to be well maintained. All playgrounds should be inspected to be in compliance with current CPSC guidelines. Associated cost would be to replace existing structures at both North and South sides of the building.	\$320,000	



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In Project	Category	Year	Priority	Architectural Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-BF-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE</i> <i>STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS),</i> -----		
Y	HS	1	3	BF-A1 Replace Doors that are Not Fire Rated and/or Handicapped Acce Many corridor doors are aged and/or are not fire rated in accordance with current code requirements. Additionally, many of these doors lack operational door closers, and have old lock sets and door knobs that are not handicap accessible, and/or have non-impact resistant glass. These doors should be replaced with fire rated doors and frames as required by current code. Quantity: 55 single doors and 14 double doors	\$180,000	
Y	HS	1	3	BF-A2 Replace Non-impact Resistant Glass There are many display cases throughout the building that contain glass that is not meeting the current code. There are also some window assemblies (non-fire rated) that do not have impact safety glass installed. Replacing the glass with impact safety glass should be considered. Quantity: 5 display cases, 3 double doors and 5 window assemblies	\$10,000	
Y	HS	1	3	BF-A3 Provide Handrails at Existing Platform Stairs The existing stairs leading from the corridor to the platform level do not have handrails as required by building code. Quantity: 10 LF	\$600	
Y	HS	1	3	BF-A4 Boiler Room Vestibule The current door leading from the corridor into the boiler room is not code compliant. Construct a fire rated vestibule and move and modify existing stair system as required by current building code.	\$10,000	
Y	HS	1	3	BF-A5 Storage Under Stage Storage under stages is no longer allowed by building code and removal of existing doors with a wood infill to match existing is recommended.	\$5,000	
Y	HS	1	2	BF-A6 Update Coiling Doors at Dishwashing Station The current door for the dishwashing station is not fire rated and not appropriate for this location. Consider replacing the door with a fire rated coiling door and infilling a portion of the wall to match existing.	\$3,500	

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Y HS 1 3 **BF-A7 Replace Metal Ladder from Stage to Mechanical Room** **\$6,000**
 The existing ladder leading from the stage to the mechanical room is not code compliant and should be replaced.



Y HS 1 m **BF-A8 U-Shaped Roof Joists** **\$0**
 There are a number of U-shaped steel joists present in the 1965 area of this building. The construction of the top chord of these joists allow for the collection of moisture and possible deterioration of the joists. No significant deterioration or sign of moisture was noted. These joist should be reviewed again in 5 years.

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ADA **II-BF-PHYSICALLY DISABLED ACCESS (ADA)**
AMERICANS WITH DISABILITIES ACT (ADA) COUNCIL OF AMERICAN BUILDING OFFICIALS / AMERICAN NATIONAL STANDARDS INSTITUTE (CABO / ANSI)

Y ADA 1 3 **BF-A9 Replace Door Knobs With Handicapped Accessible Levers** **\$300**
 Aside from doors that have been previously recommended for replacement due to fire rating, doors throughout the building have door knobs that are not considered to be handicap accessible. These door knobs should be replaced with handicapped accessible lever style locks as outlined by current code. Quantity: 1 door knob

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Y ADA 1 3 **BF-A10 Corridor 020 Ramp** **\$15,000**
 The ramp in Corridor 020 requires a landing based on the length of the ramp.

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Y ADA 1 2 **BF-A11 Update Toilet Room to be Handicap Accessible** **\$300,000**
 Many toilet rooms are not handicap accessible due to the lack of clearances, grab bars, appropriate toilet and sink fixtures and/or lever style faucets. Some of these toilet rooms also do not have compliant ADA signage. Updating this toilet room in accordance with current code should be considered. Quantity: 20 toilet rooms



Y ADA 1 3 **BF-A12 Update Drinking Fountains to be Handicap Accessible** **\$10,000**
 Several non-accessible drinking fountains exist throughout the building. These drinking fountains should be updated to satisfy current code. Quantity: 5 drinking fountains



GBI **III-BF-GENERAL BUILDING RENOVATIONS-INTERIOR**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBI 1 3 **BF-A13 Replace Casework** **\$301,500**
 The existing storage and sink systems in classrooms are an assortment of aged units that are no longer functional, aesthetically pleasing or ADA compliant. This casework should be considered for replacement. Quantity: 670 LF



Y GBI 1 3 **BF-A14 Renovate Gym** **\$80,000**
 The existing wall pads have reached the end of its useful life and should be considered for replacment (Quantity: 120 LF). Also, the existing wood doors for the former movable partition system is worn and should be replaced. The wood flooring in this space is in need of sanding, restriping and resurfacing (Quantity: 3,700 SF) and the existing wood bench at the window wall should be considered for replacement (Quantitv: 70 LF).



Y GBI 1 3 **BF-A15 Renovate Library** **\$80,000**
 All finishes and library casework is worn and should be replaced. Additionally the existing circulation desk is out dated and should be replaced. An interactive board should also be provided



Y GBI 2 1 **BF-A16 Renovate Cafeteria** **\$30,000**
 All finishes and wall treatments in Cafeteria are worn and outdated and should be considered for replacement.



Y GBI 2 1 **BF-A17 Renovate Kitchen** **\$120,000**
 The kitchen is in need of a full renovation including all finishes.



Y GBI 1 3 **BF-A18 Stage** **\$20,000**
 Sand and resurface existing stage floor. Replace existing stage curtains. Quantity: 700 SF








Y GBI 1 3 **BF-A19 Replace Acoustic Ceiling Tile** **\$255,125**
 Many spaces have 24"x48" acoustic ceiling tile that is worn and should be considered for replacement. Quantity: 39,250 SF

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Y GBI 1 3 **BF-A20 Replace Asbestos Plaster Ceiling/Soffit and Wall** **\$256,450**
 Some spaces have asbestos containing ceiling and wall plaster that should be considered for replacement. Quantity: 11,150 SF Replace with Acoustical Ceiling


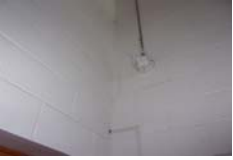



Y	GBI	1	3	BF-A21	Replace Lockers The existing lockers in the corridors are worn and should be considered for replacement. Quantity: 100 LF	\$32,000	
Y	GBI	1	2	BF-A22	Replace Aged Blackboards / Tackboards Several aged blackboard / tackboard units exist throughout the building. These units should be considered to be replaced with new whiteboard (dry erase) / tack board units. Quantity:1,180 LF whiteboards / tackboards	\$82,600	
Y	GBI	1	2	BF-A23	Replace Aged Window Treatments Existing window treatments throughout the building should be considered for replacement. Quantity: 820LF	\$39,360	
Y	GBI	1	3	BF-A24	Abate 9"x9" Vinyl Asbestos Floor Tile The 9"x9" vinyl asbestos floor tile is worn and should be considered for replacement. Quantity: 29,200 SF	\$530,000	
Y	GBI	1	3	BF-A25	Replace Aged Unit Ventilator Shelving The unit ventilator shelving is aged and should be considered for replacement. Quantity: 850 LF	\$340,000	
Y	GBI	1	3	BF-A26	Replace Aged Computer Desks The computer desks are aged and should be considered for replacement. Quantity: 100 LF	\$35,000	
Y	GBI	1	3	BF-A27	Replace Worn Floor Finishes Existing VCT throughout the building should be worn and should be replaced. Quantity: 4,370 SF	\$26,220	
Y	GBI	1	3	BF-A28	Vestibule Creation Several exterior entrances do not have a second storefront system to create an air lock adding to thermal performance. It is suggested that double doors be added at these locations. Quantity: 3 locations	\$24,000	

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Y	GBI	1	3	BF-A29	Masonry Cracking in Auditoria There was some wall cracking and cracking of existing joints observed in the Auditoria. This appears to be due to poorly placed control joints and hard joint material. The existing joints should be filled with a flexible joint material and new control joints provided at the corners of door and window openings at a maximum spacing of 15'.	\$7,500	
Y	GBI	1	3	BF-A30	Minor Masonry Wall Cracking Masonry walls in the Gymnasium have a small vertical separation of the joint between the exterior wall and the interior partition. Provide elastomeric caulk to seal the joints at these locations. Quantity: 40 LF	\$2,000	
Y	GBI	1	3	BF-A31	Existing Expansion Joints Control joints above the door openings throughout the 1960 addition are filled with hard mortar and have cracked. The mortar should be removed and replaced with a flexible joint material. Quantity: 60 LF.	\$5,000	
Y	GBI	2	1	BF-A32	Pre-K Addition 4 additional Pre-K classrooms are required. An additional corridor is required with the creation of the classroom addition. Approx. addition quantity: 4,900 SF Approx. renovation quantity: 400 SF	\$1,006,000	I M A G E
Y	GBI	1	3	BF-A33	Tech Closet Renovate existing News room to be a tech closet. Appox. Quantity: 350 Sf	\$22,750	I M A G E
Y	GBI	1	2	BF-A34	Kiln The existing kiln should be replaced.	\$5,000	I M A G E
Y	GBI	2	1	BF-A35	Pre-K Classrooms Renovate the existing pre-k classrooms to meet SED size requirements. Approx. quantity: 2,500 SF	\$162,500	I M A G E
Y	GBI	2	1	BF-A36	ASD Classroom The existing ASD classroom should be renovated. Approx. quantity: 800 SF	\$52,000	I M A G E

GBE **IV-BF-GENERAL BUILDING RENOVATIONS-EXTERIOR**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT

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Y GBE 1 2 **BF-A37 Replace Roof System** **\$863,700**

The entire roof system has reached the end of its useful life and should be replaced. Roof drains should be added to prevent ponding. All units should be raised so that the curb is at least 8 inches. Vents should be extended as well and fitted with a proper boot.

Y GBE 1 2 **BF-A38 Provide Ladders/Stairs to Access Roof Heights** **\$5,500**

Two roof ladders should be added so that all of the roof is accessible. Also stairs should be provided for access from the main access door to the roof.



Y GBE 1 2 **BF-A39 Replace Deteriorated Exterior Doors** **\$5,000**

Exterior doors are deteriorated and should be replaced. Quantity: 1 exterior double door



Y GBE 1 3 **BF-A40 Update Exterior Railings to be ADA Compliant** **\$10,000**

Additionally, the railings by the Loading Dock, by the Auditoria, and at the side doors of the Gymnasium are not ADA compliant as they lack the required extension as outlined by current code and should be replaced.



Y GBE 1 3 **BF-A41 Repair Exterior Expansion Joint** **\$1,000**

The caulking at the exterior expansion joints located outside the library and outside Classrooms 205 and 207 have failed and should be repaired.



Y GBE 1 3 **BF-A42 Masonry Re-Pointing** **\$2,500**

Some masonry re-pointing / restoration are needed at the bottom four feet of the wall on the northwest end of the building near Classrooms 312 and 315.



Y GBE 1 3 **BF-A43 Replace Exterior Window Systems** **\$10,240**

Much of the exterior concrete foundation is beginning to spall/ Loose concrete should be removed and surface repairs with a concrete patch should be used.



Y GBE 1 3 **BF-A44 Spalling Concrete** **\$4,480**

The exterior windows in Gymnasium 012 contain wire glass and should be replaced. Quantity: 128 SF



Y GBE 1 m **BF-A45 Patch Stairs and Repaint Handrails**
Several exterior stairs and handrails are corroding. Loose material from stairs should be removed and the areas patch. Handrails should receive 2 to 3 coats of paint. All embedments for handrails should be filled as well. Locations include outside of Classrooms 312 and 315, Classrooms 210 and 211, and Classrooms 305 and 307.

\$1,000



Y GBE 1 3 **BF-A46 Replace Loading Dock**
The loading dock has severe corrosion and deterioration and should be considered for replacement.

\$5,000



Y GBE 1 3 **BF-A47 Paint and Repair Canopys**
The canopy outside of Classrooms 104 and 105 is corroding and should be painted. The canopy above the main entrance also needs a coat of paint along with replacement of the wooden pannels and paint to the steel structure to prevent further corrosion.

\$1,500



Y GBE 1 3 **BF-A48 Steel Column Base Corrosion**
The exterior steel columns at the main entrance in front of Vestibule 110 are showing signs of rusting and deterioration at the base. It is recommended that these columns be cleaned, and repainted with three coats of exterior epoxy paint.


\$2,500









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 Airport Corporate Park, 100 Hunt Center
 Horseheads, NY 14845-1019
 P: 607-358-1000
 F: 607-358-1800

Big Flats




In Project	Category	Year	Priority	Mechanical Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-BF-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i>		
N	HS	1	1	BF-M1 Inadequate or Non-Existent Ventilation in Occupied Spaces A number of rooms currently feature no ventilation in the form of fresh air supply and, as they are occupied spaces, it is required. Provide fresh make up air at a rate in accordance with code and offer relief for exhausting the space. Effected Areas: Office space adjacent to Room 203, occupied storage area between Gym and Library,	\$15,000	I M A G E
Y	HS	1	3	BF-M2 Install Proper Ducting For Relief Air Currently, a majority of occupied and storage spaces feature a relief air path that transfers to the corridor plenum and does not meet current code. Additionally, subsequent additions and improvement projects have rendered much of these air paths inoperable. Install appropriate ducting and/or fire/smoke dampers in these openings in accordance with current code. Approximately 35 examples.	\$32,000	
Y	HS	1	2	BF-M3 Ventilation Hood for Pottery Kiln The existing pottery kiln in use in the art room does not feature adequate ventilation as the kiln exhaust hood is undersized. An appropriately sized exhaust hood should be installed to service this kiln in accordance with code. Art Room 202.	\$1,000	
	GBI			<u>II-BF-GENERAL BUILDING RENOVATIONS</u> <i>RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.</i>		
N	GBI	1	1	BF-M4 Boiler and Steam System Replacement The current building heating system is mixture of piped steam and hydronic, all of which is heated by two cast iron steam boilers. These boilers have surpassed their intended service life and operate with an outdated, overcomplicated, and inefficient form of heating. It is recommended these boilers be replaced with new, high efficiency hot water boilers, and all piping and terminal end units associated with steam be replaced with a hot water hydronic system and compatible components.	\$1,500,000	

N	GBI	1	1	BF-M5	Emergency Boiler Shutdown Switch in Common Corridor There is currently 1 emergency boiler shutdown switch outside the boiler room in the general corridor. If these switches are still operable, this is a major concern as they are easily accessible by students or other persons. If they are no longer operable, this could lead to a misleading situation in the event of an emergency. These switches should be removed completely and replaced with break-glass emergency switches at appropriate locations.	\$1,500	
N	GBI	1	2	BF-M6	Supply Air in Faculty Nurse's Suite The office suite featuring the Nurse's and Principal's office does not currently have any form of ventilated heating or air conditioning. No fresh air is present as ventilation is non-existent. Existing supply diffusers and grilles are currently not connected to an operable system. The area is heated solely by perimeter radiation and cooled by ductless split AC units. A dedicated roof top air handling unit with ducted supply and return should be installed to serve this suite of offices.	\$20,000	I M A G E
Y	GBI	1	2	BF-M7	Replace Unit Ventilators Unit ventilators installed in the wing of the 1965 addition are original to that construction and are beyond their useful service life. Replace these units with new, higher efficiency units. 12 examples.	\$120,000	
Y	GBI	1	2	BF-M8	Replace Outdated Exhaust Fans Numerous exhaust fans in the mechanical penthouse and on the adjacent roof are past their useful life and inefficient. Replace these fans with new units to increase the service life of the ventilation system.	\$10,000	
Y	GBI	1	2	BF-M9	Missing ADA Pipe Wrap Many lavatories do not feature ADA compliant pipe insulation. ADA pipe insulation should be installed on these fixtures in accordance with the regulation. Effected Areas: Nurses Office, Office adjacent to Room 200, Faculty toilet adjacent to Room 306.	\$1,000	I M A G E
Y	GBI	1	2	BF-M10	Upgrade Plumbing Fixtures to Touch-Free Touch-free plumbing fixtures are much more sanitary and waste less resources. Replace all fixtures in public bathrooms with touch-free units. Approximately 40 examples	\$4,500	I M A G E
Y	GBI	1	2	BF-M11	Replace Bathroom Fixtures with Low Flow Units The current bathroom fixtures installed in public, classroom, and office bathrooms are outdated and inefficient. Replacement of these fixtures with new, high efficiency, low flow units will decrease unnecessary waste of domestic water and greatly extend the service life of the toilet rooms. Approximately 40 examples.	\$80,000	
Y	GBI	1	2	BF-M12	Replace Outdated Drinking Fountains Many of the corridor drinking fountains should be replaced as they are past their service life, aesthetically in disrepair, and are not ADA compliant. Replace with ADA compliant and preferably water cooled units in accordance with code. 9 examples.	\$30,000	I M A G E



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 Airport Corporate Park, 100 Hunt Center
 Horseheads, NY 14845-1019
 P: 607-358-1000
 F: 607-358-1800

Big Flats

In Project	Category	Year	Priority	Electrical Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-BF-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i>		
Y	HS	1	1	BF-E1 Exit Egress Signage Replace dim and non-working exit fixtures that violate life safety code requirements. Replace with new energy efficient LED fixtures for increased savings. Provide additional exit fixtures where required to comply with current life safety code requirements. (estimate assumes 20 fixtures)	\$4,000	
Y	HS	1	m	BF-E2 GFCI Receptacles At locations identified, where within 6'-0" of a source of water; replace non-protected receptacle with new GFCI protected device. Identify devices as being "GFCI Protected". (estimate assumes 16 devices)	\$2,400	
Y	HS	1	1	BF-E3 Arc Flash Labeling The current electrical system has not been Arc Flash rated and labeled in accordance with NEC 70E code. Provide testing and proper labeling to meet NEC code requirements.	\$5,800	I M A G E
Y	0	1	1	BF-E4 Exterior Egress Emergency Lighting Provide NFPA Level 1 compliant exterior emergency egress lighting adjacent to all exterior egress doors to meet current life safety code requirements. (estimate assumes 12 locations)	\$4,200	I M A G E
	GBI			<u>II-BF-GENERAL BUILDING RENOVATIONS-INTERIOR</u> <i>RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.</i>		
Y	GBI	1	3	BF-E5 Provide Additional Power Outlets Provide additional receptacles and circuitry in various locations to discourage the use of extension cords and power strips. Remove improperly mounted unit ventilator mounted receptacle that violates NEC code regulations.	\$10,000	

Y GBI 1 3 **BF-E6 T8 Lighting Upgrades** **\$345,500**
 In areas lit with T8 lamped fixtures with electronic ballasts. Replace fixtures with new LED lit fixtures for increased energy and maintenance savings. Reuse existing wiring and controls.

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Y GBI 1 3 **BF-E7 Exposed Lamp Shatter Guards** **\$1,000**
 In areas with light fixtures that have exposed lamps; provide lamp shatter guard tubes and/or wireguard protection to prevent accidental lamp breakage.

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Y GBI 1 3 **BF-E8 Occupancy Sensors** **\$25,000**
 Provide occupancy sensors in all areas not currently having coverage, to comply with NYS energy code requirements and for increased energy savings. (estimate assumes 50 locations)

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Y GBI 1 3 **BF-E9 Daylight Harvesting Lighting Sensors** **\$33,750**
 Provided daylight harvesting sensors to comply with NYS energy code requirements and for increased energy savings. (estimate assumes 45 locations and includes cost of ceiling panel)

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Y GBI 1 2 **BF-E10 Replace Power Distribution Panels** **\$10,000**
 Two original construction power panels have exceeded the end of their useful life. Replace with new power distribution panels and feeders.



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Y GBI 1 3 **BF-E11 Ceiling Mount Projector Power** **\$11,000**
 Classrooms with ceiling mount projectors have non-code compliant above ceiling receptacle connections. Relocate all above ceiling receptacles into the ceiling grid panel. (estimate assumes 10 locations and includes cost of ceiling panel)



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II-BF-GENERAL BUILDING RENOVATIONS-EXTERIOR

RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBE 1 2

BF-E12 Exterior Building Mount Fixtures

Replace existing HID and CFL building mount fixtures with new LED fixtures with photo-cells to provide reduced energy consumption and reduced maintenance costs. (estimate assumes 16 locations)

\$7,200



Y GBE 1 3

BF-E13 Replace Canopy Lighting Fixture

Replace CFL lamped canopy light fixtures with new LED fixtures with remote photo-cells to provide reduced energy usage and reduced maintenance costs. (estimate assumes 12 fixtures)

\$5,400

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In Project	Category	Year	Priority	Technology Recommendations	Estimate	Thumbnails (if any)
	SBI			<u>I-BF-SMART SCHOOLS BOND INVESTMENT</u> SMART SCHOOLS BOND INVESTMENT PLAN		
Y	SBI	1	1	BF-T1 Network Data Closet Improvements There are four existing network cabinet in Big Flats Elementary. All locations should receive architectural changes to isolate the equipment within rooms. Network rooms need to be secured, properly cooled & grounded for PoE switches as well as properly powered to prevent outages. Improvements should also include re-cabling where required, a new 10G fiber optic backbone, new patch cables and wire management.	\$262,000	I M A G E
Y	SBI	1	1	BF-T2 Network Electronics Upgrade The network electronics should be upgraded and reconfigured to maximize bandwidth to the end user. The switches should be capable of 10 Gbps connection to the network backbone and share at least 20 Gbps with the other switches in the data room. They should also be sized with proper power supplies so that PoE+ devices can be powered via the switch.	\$125,000	I M A G E
Y	SBI	1	1	BF-T3 Security Video Surveillance The district has begun to phase out the existing analog cameras and DVRs but a complete replacement of the DVR with video recording servers will provide the district with a single, simplified video management system that is versatile and easily expandable. The district has purchased some of the equipment to continue the process however labor, cabling and some additional equipment is needed. The district should focus on corridor, stairwell, entrance and parking lot coverage.	\$50,000	I M A G E
Y	SBI	1	1	BF-T4 Upgrade Network Data Cabling The existing building data cabling is in unsatisfactory condition in some areas of this section of the building. Some data rooms are potentially being relocated which would require recabling, at which point this issue will be addressed for this section of the high school. The recommendation is to reduce classroom data outlets as wireless will become widely used. Classrooms would receive four data drops each.	\$211,000	I M A G E
Y	SBI	1	1	BF-T5 Wireless Network Infrastructure To account for more widespread use of wireless devices and the need for a flexible wireless network to support student used devices, the wireless network should be upgraded to the most current wireless-AC standard and expand coverage to all classrooms. Capacity should also be considered so the district has the ability to deploy 1-2-3 devices per student.	\$57,000	I M A G E
Y	SBI	1	1	BF-T6 Voice over IP Phone System Included in High School South		I ..

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II-BF-GENERAL BUILDING RENOVATIONS-INTERIOR

RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBI 1 1 **BF-T7 IP Video Distribution to Replace Cable Infrastructure** **\$30,000**

The current system is very old and the low and high band channels provide poor viewing quality. The district should look to upgrade this system to an IP based system allowing content and channels to be broadcast over the Local Area Network. This would provide teachers and students with flexible cable & content TV system accessible anywhere.

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 P: 607-358-1000
 F: 607-358-1800

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In Project	Category	Year	Priority	Food Service Recommendations	Estimate	Thumbnails (if any)
	HS			<u>-BF-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i>		
Y	HS	2	1	BF-FS1 Replace Serving Line 1. Custom Serving line is over 40 years old and in need of replacement (no cold food storage, built in milk cooler is rusted and unsanitary, hot food wells old is inefficient and unsanitary, etc...). Recommend replacing the entire serving line within the next 2-3 years with a new modular 4 well hot food unit, refrigerated cold food merchandiser, ice cream unit, free standing milk dispenser and cashiers station.	\$60,000	I M A G E
Y	HS	2	1	BF-FS2 Replace Warming Cabinet Metro warming cabinet are over 22 years old and the cord is unsafe. Recommend replacing within the next 1-2 years with a new energy star rated mobile warming cabinet.	\$5,000	I M A G E
Y	HS	2	1	BF-FS3 Three Compartment Sink Staff is using a Two (2) compartment sink in lieu of a three (3) compartment sink as required by DOH. Recommend replacing the two compartment sink with a three compartment sink.	\$8,000	I M A G E
Y	HS	2	1	BF-FS4 Replace Convection Oven Market Forge Convection oven with boiler base is in poor condition. Recommend replacing the oven with a Combination Oven or steamer within the next 2-3 years.	\$18,000	I M A G E
Y	HS	2	1	BF-FS5 Replace Walk In Cooler Step-up walk-in cooler is in very poor condition and potentially a tripping liability. Recommend replacing cooler with new refrigeration system and shelving within the next 1-2 years. Note: Recommend removing debris from the top of the walk-in due to a potential fire hazard.	\$25,000	I M A G E

Y	HS	2	1	BF-FS6	Replace Ceiling Tiles	\$0	I M A G E
<p>The ceiling tiles are soiled & damaged and this type of tile does not comply with NYS SED requirements (washable non-pores type). Recommend replacing entire ceiling with compliant tiles.</p>							
Y	HS	2	1	BF-FS7	Replace Dishwasher	\$40,000	I M A G E
<p>Hobart Dishwasher is over 30 years old. Recommend replacing the dishwasher within the next 3-4 years with a unit with built in booster heater and heat reclaim to reduce the energy footprint (electric, water, waste, exhaust).</p>							
Y	HS	2	1	BF-FS8	Add Hand Sinks	\$1,200	I M A G E
<p>Staff is currently using a 2 compartment sink for hand washing (no designated hand sink available in kitchen). Recommend adding 2 hand sinks when kitchen is fully renovated.</p>							
Y	HS	2	1	BF-FS9	Kitchen Renovation	\$60,000	I M A G E
<p>We recommend renovation of the entire kitchen and servery within the next 5 years to allow staff greater flexibility with food offerings and food flow. Add an additional \$60,000 for foodservice replacement items related to a kitchen renovation, i.e. dishtables, paintleg duct, sinks, worktables, mop sink, etc...</p>							



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 Airport Corporate Park, 100 Hunt Center
 Horseheads, NY 14845-1019
 P: 607-358-1000
 F: 607-358-1800

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In Project	Category	Year	Priority	AutoNum	Theatrical Recommendations	Estimate	Thumbnails (if any)
	HS			I	<u>I-BF-HEALTH AND SAFETY</u> BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS		
Y	HS	1	1	1	BF-TH1 Room Acoustics The acoustics in this space are acceptable for a cafeteria style space. Significant improvements in acoustics would require a major ceiling tear out, a high NRC ceiling tile and gridwork and additional, specialized acoustic treatments on the walls below 8' - 0" AFF. These lower wall treatments are easily soiled, and, as such, are not typically embraced from a maintenance standpoint.	\$30,000	I M A G E
Y	HS	1	1	2	BF-TH2 Audio System There is no audio system in this space. A new audio system is recommended. Lower budget includes basic automated audio system with hearing assistance and speakers. Upper budget includes an audio console, wireless microphones and related cabling, better speakers, a portable control panel and portable cases.	\$80,000	I M A G E
Y	HS	1	1	3	BF-TH3 Lighting System The existing lighting system consists of a few par cans in the ceiling and a borderlight fixture on stage. These are inadequate for theatrical use and the borderlight is a large energy drain. Lower budget includes new LED stage and front of house wash fixtures and an architectural control system. Upper budget includes additional wash & ellipsoidal LED lighting fixtures, connector strips, a small lighting console, distribution and a small relay rack.	\$65,000	I M A G E
Y	HS	1	1	4	BF-TH4 Houselighting System The existing fluorescent houselighting system appears to be adequate; however, upgrades could be made to convert the existing system to a completely LED based system (depending on the type of lamps in the fluorescent fixtures). Budget includes replacing existing fluorescent tubes with LED tubes if the existing tubes are T5 style, but doesn't include any needed wiring changes.	\$8,000	I M A G E
Y	HS	1	1	5	BF-TH5 Stage Rigging System 1) Most of the stage sets have been suspended by light duty chain not approved for overhead lifting, in questionable ways and with open S hooks, carabiners or open chain links. 2) The trim chains on stage do not have safety bolts. Safety bolts should be added to all stage batten trim chains. This is a subject of discussion in the rigging industry, but properly installed safety bolts are a recommended safety feature. 3) Most of the stage battens appear to have threaded couplings, which can suddenly fail. The battens should all be replaced (included in stage rigging system improvements budget below). 4) It appears that none of the system shackles have been moused so that they cannot come unscrewed. All shackles should be properly moused.	\$3,000	I M A G E
Y	HS	1	1	6	BF-TH6 Stage Rigging System - Improvements	\$25,000	

The existing stage rigging system has been installed with light duty chain not approved for overhead lifting and in an unsafe manner as well as on battens with threaded couplers. It is recommended that the entire system be replaced.

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y HS 1 1 7 **BF-TH7 Stage Rigging System - Curtains & Tracks** **\$25,000**

Two of the stage curtains are IFR (inherently flame retardant) and are circa 2008, the remaining curtains are FR, older, have been treated two of the maximum of three times and are near the end of their useful life. These curtains should all be replaced, with the exception being the main valance and traveler curtains. The existing curtain tracks are very old, in poor condition and should be replaced. Budget includes new curtain tracks, operating lines and sandbag weighted floor pulleys.

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Y HS 1 1 8 **BF-TH8 FOH Cove Lighting System** **\$10,000**

A front of house (FOH) rigid lighting system is recommended if this space is utilized for performances. Due to the moderate ceiling height of this room; however, adoption may prove to be difficult and put fixtures too close to the floor and invite cafeteria use damage. This can be explored if desired by the owner. Overhead attachments are unknown at this point and could greatly impact the installation costs.

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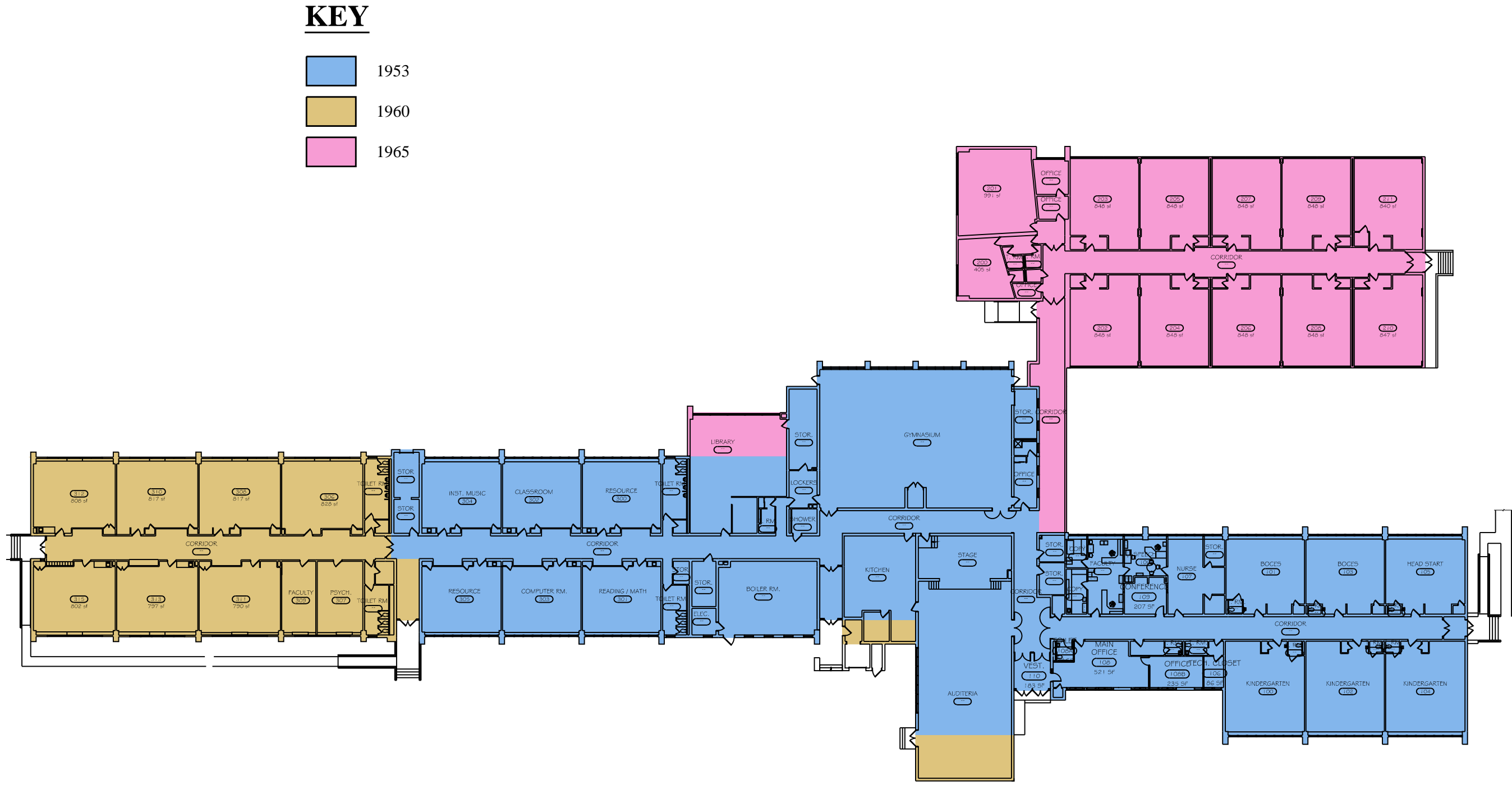
Y HS 1 1 9 **BF-TH9 Video Presentation System** **\$34,000**

The existing projector is a low output VGA projector and the existing projection screen is newer, in good condition but is the wrong format for today's video presentations. It is recommended that the system be upgraded with a new projection screen and permanently mounted projector with a stage input. Budget includes new permanently mounted, medium output HD projector, motorized 16:9 video screen and one stage input location with auto-sensing.

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S.E.D. BUILDING CONDITION SURVEY

KEY PLANS



BIG FLATS ELEMENTARY

FIRST FLOOR HORSEHEADS CENTRAL SCHOOL DISTRICT

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SYSTEMS DESCRIPTIONS



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Ridge Road

Site Description

GENERAL BUILDING INFORMATION

Fuel Oil: None noted at time of inspection

Potable Water: Potable water is provided by municipality.

Sanitary: Sanitary conveyance is taken to the municipal treatment facility.

Electric: Electric is provided by NYSEG

Natural Gas: Natural gas is provided by NYSEG

Stormwater: Stormwater runoff from building and grounds sheet drain to catch basins and roadside ditches.

Cable/Internet: Television and Internet services are provided to the main building by Time Warner Cable.

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

East Parking Lot:

Age- Unknown

Expected remaining useful life- 2 years

Rating- Unsatisfactory

Description: Located to the east is a asphalt paved parking lot in poor condition.

West Loop and Entry Drive:

Age- Unknown

Expected remaining useful life- 2 years

Rating- Unsatisfactory

Description: Located to the west of the building is a 24- 30 foot wide asphalt paved loop in poor condition.

Sidewalk:

Age- Varies

Expected remaining useful life- 5-10 years

Rating- Satisfactory

Description: The school has a concrete sidewalk system that provides access to the school from the bus loop and points on the west side of the building.

Handicap Ramp:

Age- Varies
Expected remaining useful life- 5-10 years
Rating- Satisfactory

Description: The handicap ramp was updated in 2013 on the east and west sides of the building.

ATHLETIC FIELD DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

/soccer Field:

Age- Unknown
Expected remaining useful life- 10-20 years
Rating- Satisfactory

Description: Located west of the building is a soccer field that is used by school students.

Playground Equipment:

Age- Varies
Expected remaining useful life- 5-10 years
Rating- Satisfactory

Description: Located to the north and south of the building is playgrounds in satisfactory condition. At time of inspection the safety surfacing appeared to be adequate. The adjacent play pavement is in poor condition and should be replaced or overlaid with new asphalt pavement.



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Ridge Road

Mechanical Description

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Boilers:

Age- 1952

Expected remaining useful life- 5 Years

Rating- Satisfactory

Description: Two Cleaver Brooks steam boilers provide heated steam to the buildings heating system. Terminal units in the original portion of the building are steam, terminal units in the addition are hot water and are served by a steam to hot water heat exchanger located in the boiler room.

Domestic Water Systems:

Age- 1952

Expected remaining useful life- 15 Years

Rating- Satisfactory

Description: The water supply is municipal.

Domestic Hot Water:

Age- 2005

Expected remaining useful life- 20 Years

Rating- Satisfactory

Description: One hot water heater provides hot water for the domestic water system.

Sanitary and Storm Systems:

Age- 1952

Expected remaining useful life- 15 Years

Rating- Satisfactory

Description: The sanitary waste from the school empties to municipal systems.

Classroom Ventilation/Heat:

Age- 1952, ???

Expected remaining useful life- 5, ?? Years

Rating- Satisfactory

Description: Classrooms feature unit ventilators for heating and ventilation. These are a 1952 vintage in the original portion of the building and ??? In the addition. Both the library and the computer classroom are served by a ducted rooftop air handling unit.

Kitchen:

Age- 1952

Expected remaining useful life- 10 Years

Rating- Satisfactory

Description: The kitchen has an exhaust hood installed over cooling equipment, and exhaust, and a grille to transfer air from the cafeteria.

Gymnasium:

Age- 2000's

Expected remaining useful life- 20 Years

Rating- Satisfactory

Description: One air handling unit in the adjacent mechanical space provides ducted air for heating and ventilation. Perimeter radiation provides supplemental heat.

Cafetorium:

Age- 2000's

Expected remaining useful life- 20 Years

Rating- Satisfactory

Description: One air handling unit in the adjacent mechanical space provides ducted air for heating and ventilation. Perimeter radiation provides supplemental heat.



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Ridge Road

Electrical Description

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Emergency / Stand-by Power System:

Age- 7 years
Expected remaining useful life- 23 years
Rating- Satisfactory

Description: Building is backed-up via a Cummins diesel fuel back up generator. There are two separate Automatic Transfer Switches serving both Life Safety and Stanby power loads, adhering to NFPA Level 1 design standards.

Exit Egress Path Signage

Age- 12 years
Expected remaining useful life- 3 years
Rating- Unsatisfactory

Description: Exit signage is comprised of both LED lit signage and unlit graphic adhesive stickers. The majority of the Exit fixtures are either unlit or very dim and do not clearly identify path of egress.

Interior Emergency Egress Lighting

Age- 7 to 12 years
Expected remaining useful life- 3 to 13 years
Rating- Satisfactory

Description: Places of assembly include battery backed-up wall packs, limited corridor fluorescent fixtures are connected to Life Safety power circuits providing emergency lighting along path of egress from within building corridors.

Exterior Emergency Egress Lighting

Age- 1 year
Expected remaining useful life- 19 years
Rating- Unsatisfactory

Description: Exterior emergency lighting is limited to primary secured entrances constructed 2014-2015 school year. The remainder of exterior doors lack emergency lighting.

Fire Alarm Systems:

Age- 18 years
Expected remaining useful life- 2 years
Rating- Satisfactory

Description: The Fire Alarm system is a FCI zoned type system.

General Lighting:

Age- 7 to 26 years
Expected remaining useful life- 13 to 3 years
Rating- Satisfactory

Description: The majority of the building's lighting consists of T8 fluorescent lamped fixtures containing electronic ballasts.

Building Mount Exterior Lighting

Age- 1 to 20 years
Expected remaining useful life- 19 to 1 years
Rating- Satisfactory

Description: The exterior building mount lighting consists of a mix of HID, incandescent, compact fluorescent, and LED fixtures controlled via photo-cells and/or time clocks.

Electrical Service Entrance:

Age- 19 years
Expected remaining useful life- 30 years
Rating- Satisfactory

Description: 120/208V 800A, 3 phase, 4 wire, fed from underground to 400A rated disconnect that serves MDP and a 400A Service switch that serves MDP-2.

Electrical Power Distribution Panels:

Age- 5 to 49 years
Expected remaining useful life- 25 to 1 years
Rating- Satisfactory

Description: The electrical distribution are a combination of new up to date panels to original vintage construction panels. The original construction panels have exceeded their useful life. The building's distribution equipment does not comply with current NEC 70E code requirements for testing and labeling of Arc Flash ratings.

Wiring Devices

Age- 49 years
Expected remaining useful life- 1 year
Rating- Unsatisfactory

Description: The majority of the electrical wiring devices in the building date to the original building construction and have exceeded their expected useful life. Wiring device placement and quantities are inadequate for current spacial needs. Several classrooms have ceiling mounted projectors that connect to a receptacle concealed above the ceiling which is a violation of current NEC code requirements.

Motor Starters:

Age- 25 years
Expected remaining useful life- 5 years
Rating- Satisfactory

Description: Large HP 3 phase motors throughout the facility are equipped with inefficient magnetic motor starters.



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Ridge Road

Technology Description

Data Network Infrastructure:

Age- 10-15 Years
Expected remaining useful life- 1-3 Years
Rating- Unsatisfactory

Description: Ridge Road Elementary School is connected to the district's network via Southern Tier Network single mode fiber. The current electronics support a 1 Gbps connection. There are three data rooms in the building that connect to each other over OM1 multi-mode fiber and distribute data to classrooms using a mix of Cat5 & 5e twisted pair cabling. All data rooms are shared spaces and utilize some wall mounted racks. There is no air conditioning in the spaces. The network switches are a mix of 10/100 & 10/100/1000 Mbps and mostly older than 5 years.

Internet Services:

Age- NA
Expected remaining useful life- NA
Rating- Satisfactory

Description: Internet service is received through GST BOCES via the Southern Tier Network leased fiber.

Voice Systems:

Age- 10-15 Years
Expected remaining useful life- 1-3 Years
Rating- Unsatisfactory

Description: The existing phone system is a digital PBX solution that is no longer supported. The system connects to the district wide system. It has voice mail and auto attendant features however lack of support makes these features vulnerable to downtime in the event of a hardware failure. The system is connected to the district wide system allowing dialing and call routing within district. Office locations have digital hand sets and all classroom phones are analog sets using Cat3.

Wireless Technologies:

Age- 5-7 Years

Expected remaining useful life- 3-5 Years

Rating- Unsatisfactory

Description: Currently there is a Cisco wireless solution witch consists of wireless access points that connect to a wireless controller. Most access points are deployed with external antennas and mounted in some classrooms. Not all instructional areas have reliable wireless coverage.

Paging Systems:

Age-

Expected remaining useful life-

Rating-

Description: The current paging system consists of a small Dukane interface in the main office with remote amplification. The speakers throughout the facility are connected via distributed cabling at cross connect locations.

Clock Systems:

Age- Undetermined

Expected remaining useful life- 7-10 Years

Rating- Satisfactory

Description: A Visiplex clock system serves all instructional, administrative and assembly spaces. The system is controlled by a master clock controller to synchronize the time.

Video Systems:

Age- 10+ Years

Expected remaining useful life- 1-3 Years

Rating- Unsatisfactory

Description: There is cable TV coaxial cable throughout the building. The backbone is distributed from the building entry point via Blonder Tongue amplifiers. There are TV connections and CRT Televisions in most classrooms. The district reports quality problems that a most likely due to signal strength and balance throughout the distribution system.

Classroom Technologies:

Age- Various Ages

Expected remaining useful life- 5 Years

Rating- Satisfactory

Description: Each room is equipped with a smart board with integrated audio. There is also a CRT monitor that utilizes the district's cable TV service.

Computer Labs:

Age- NA

Expected remaining useful life- 5-7 Years

Rating- Satisfactory

Description: Ridge Road has two computer labs available to the students along with several classroom workstations. Both computer lab are connected to the LAN using the network cabinet within the room that distributes copper cabling to all the stations. There are approximately 32 current workstations within the lab.

Security Access Control System:

Age- 5-7 Years

Expected remaining useful life- 7-10 Years

Rating- Satisfactory

Description: There is a secured entrance that will allow visitors to enter at the main office only, forcing them to sign in with personnel. It utilizes intercoms at the exterior and controlled doors in the vestibule to control access. There is a panic button in the office that will lock exterior entrances and release fire doors in the building. Most heavily used entrances have access control however door contacts are not present at all exterior door locations.

Video Surveillance:

Age- Various Ages

Expected remaining useful life- 1-3 Years

Rating- Unsatisfactory

Description: There is currently an analog Pelco system installed with coverage at all entrances and select corridors however the district has begun to add megapixel IP cameras to the network and installing video recording server to replace the existing DVR that record the analog cameras. The IP camera upgrades were mostly based around the secured entrance areas. The district purchased some cameras and are rolling them out in phases.



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Ridge Road

Theatrical Equipment Description

General Building Information

Room Acoustics

Age- N/A
Expected remaining useful life- N/A
Rating- Average

Description: The room's frequency response and reverberation times are acceptable.

Audio System

Age- Unable to determine (at least 7 years old)
Expected remaining useful life- Nearing the end of its useful life
Rating- Poor

Description: The existing audio system is not adequate for this space.

Lighting System

Age- 20+ Years
Expected remaining useful life- At the end of its useful life
Rating- Poor

Description: The lighting system is old, features limited functionality, no flexibility and should be upgraded to modern standards.

Houselighting System

Age- ? Years

Expected remaining useful life- ? Years
Rating- Acceptable

Description: We recommend upgrades to LED tubes for all of the existing fluorescent lights for improved energy savings.

Stage Rigging System

Age- 20+ Years
Expected remaining useful life- At the end of its useful life
Rating- Poor

Description: The stage rigging system has many deficiencies and safety concerns. It should all be replaced.

Stage Rigging System - Curtains

Age- 7+ Years
Expected remaining useful life- 12 Years
Rating- Good Overall Performance

Description: These curtains are Inherently Flame Retardant and durable.

Video Presentation System

Age- 7+ Years
Expected remaining useful life- Near the end of its useful life
Rating- Fair






Description: The existing projector and screen are the wrong format and employ outdate technology.

RECOMMENDATIONS



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Ridge Road

In Project	Category	Year	Priority	Site Recommendations	Estimate	Thumbnails (if any)
	GSR			<u>I-RR-GENERAL SITE RENOVATIONS</u> GENERAL SITE RENOVATIONS		
Y	GSR	1	1	RR-L1 Bus Loop The existing bus loop is in fair to poor condition and should be replaced to full depth.	\$92,000	
Y	GSR	1	2	RR-L2 East Parking Lots and Bus Drop off The existing asphalt pavement in the east parking lot is in poor condition and should be replaced including the bus staging area. South end of east parking lot appears to be newer pavement and should be crack sealed and surface sealed to prolong the life of the pavement.	\$700,000	
Y	GSR	1	3	RR-L3 Student Hard Play Area The existing playground hard play surface is in fair condition. Consider micro sealing of hard play area.	\$45,000	
y	GSR	1	1	RR-L4 Electrical Service Electrical service should be updated. See electrical recommendations	\$0	
Y	GSR	1	1	RR-L5 Remove & Repair Asphalt at Bus Loop & Entrance Drive The existing playground equipment is in fair condition. Playground should be inspected for compliance with current CPSC guidelines. Price includes replacement of existing equipment.	\$150,000	

Y GSR 1 3 **RR-L6 Backstop**
Replace existing backstop

\$30,000



Y GSR 1 1 **RR-L7 Playgropund surfacing**
Add Surfacing to existing playground areas. Price is for replacing 20,000 SF X 6" depth of surfacing.

\$60,000

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Y GSR 1 1 **RR-L8 Sidewalk Repair**
Price includes removal and replacement of 10,000 SF of concrete walk panels throughout site



\$100,000

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Ridge Road

In Project	Category	Year	Priority	Architectural Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-RR-HEALTH AND SAFETY</u> BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS),		
Y	HS	1	3	RR-A1 Replace Doors that are Not Fire Rated and/or Handicapped Acces Many corridor doors are aged and/or are not fire rated in accordance with current code requirements. Additionally, many of these doors lack operational door closers, and have old lock sets and door knobs that are not handicap accessible, and/or have non-impact resistant glass. These doors should be replaced with fire rated doors and frames as required by current code. Quantity: 68 rated doors	\$204,000	
Y	HS	1	3	RR-A2 Replace Wire Glass in Library Window Assembly A recent project provided door and window assemblies throughout the building with wire glass at fire rated locations. Although the glass meets the fire rating requirement, it does not meet the impact safety requirements outlined in the current NYSED code. Replacing the glass with fire rated glass should be considered. Quantity:1 Window Assembly	\$2,500	I M A G E
Y	HS	1	3	RR-A3 Replace Non-Impact Resistant Glass There are many display cases throughout the building that contain glass that is not meeting the current code. There are also some window assemblies (non-fire rated) that do not have impact safety glass installed. Replacing the glass with impact safety glass should be considered. Quantity: 2 display cases and 2 interior window assemblies	\$4,000	
Y	HS	1	3	RR-A4 Provide Handrails at Existing Platform Stairs The existing stairs leading from the corridor to the platform level do not have handrails as required by building code. Quantity: 10 LF	\$600	I M A G E
Y	HS	1	3	RR-A5 Boiler Room Vestibule The current door leading from the corridor into the boiler room is not code compliant. Construct a fire rated vestibule and move and modify existing stair system as required by current building code.	\$10,000	I M A G E

Y HS 1 3 **RR-A6 Storage Under Stage** **\$5,000**
 Storage under stages is no longer allowed by building code and removal of existing doors with a wood infill to match existing is recommended.



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Y HS 1 2 **RR-A7 Update Coiling Doors at Dishwashing Station** **\$3,500**
 The current door for the dishwashing station is not fire rated and not appropriate for this location. Consider replacing the door with a fire rated coiling door and infilling a portion of the wall to match existing.

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Y HS 1 3 **RR-A8 Replace Metal Ladder from Stage to Mechanical Room** **\$6,000**
 The existing ladder leading from the stage to the mechanical room is not code compliant and should be replaced.



Y HS 1 3 **RR-A9 Investigate Deteriorated U-Shaped Roof Joists** **\$4,000**
 There are a number of U-shaped steel joists present in the original area of this building. The construction of the top chord of these joists allow for the collection of moisture and possible deterioration of the joists. No significant deterioration was noted; however the deterioration is not always visible from below. A more in-depth investigation of the joists is recommended to determine if any deterioration is present.



Y HS 1 m **RR-A10 Load Rating for Wood Framed Storage** **\$2,000**
 The wood framed storage platform appears to be undersized for code required loading. This framing should be analyzed to determine the live load capacity. If this capacity does not meet code requirements the actual capacity should be posted in the room.



ADA **II-RR-PHYSICALLY DISABLED ACCESS (ADA)**
 AMERICANS WITH DISABILITIES ACT (ADA) COUNCIL OF AMERICAN BUILDING OFFICIALS / AMERICAN NATIONAL STANDARDS INSTITUTE (CABO / ANSI)

Y ADA 1 3 **RR-A11 Replace Door Knobs With Handicapped Accessible Levers** **\$7,200**
 Aside from doors that have been previously recommended for replacement due to fire rating, doors throughout the building have door knobs that are not considered to be handicap accessible. These door knobs should be replaced with handicapped accessible lever style locks as outlined by current code. Quantity: 24 door knobs.



Y ADA 1 2 **RR-A12 Update Toilet Room to be Handicap Accessible**
 Many toilet rooms are not handicap accessible due to the lack of clearances, grab bars, appropriate toilet and sink fixtures and/or lever style faucets. Some of these toilet rooms also do not have compliant ADA signage. Updating this toilet room in accordance with current code should be considered. Quantity: 15 toilet rooms

\$225,000



Y ADA 1 3 **RR-A13 Update Drinking Fountains to be Handicap Accessible**
 Several non-accessible drinking fountains exist throughout the building. These drinking fountains should be updated to satisfy current code. Quantity: 5 drinking fountains

\$10,000



GBI **III-RR-GENERAL BUILDING RENOVATIONS-INTERIOR**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT

Y GBI 1 3 **RR-A14 Replace Casework**
 The existing storage and sink systems in classrooms are an assortment of aged units that are no longer functional or aesthetically pleasing or ADA compliant. This casework should be considered for replacement. Quantity: 500 LF

\$225,000



Y GBI 1 2 **RR-A15 Renovate Gym**
 The existing wall pads have reached the end of its useful life and should be considered for replacement (Quantity: 80 LF). The wood flooring in this space is in need of sanding, restriping and resurfacing (Quantity: 3,600 SF) and the existing wood bench at the window wall should be considered for replacement (Quantity: 70 LF).

\$23,000

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Y GBI 2 1 **RR-A16 Renovate Cafeteria**
 All finishes and wall treatments in Cafeteria are worn and outdated and should be considered for replacement.

\$30,000



Y GBI 1 3 **RR-A17 Platform Stage Floor Finish**
 Sand and resurface existing stage floor. Quantity: 700 SF

\$7,000



Y GBI 1 3 **RR-A18 Replace Acoustic Ceiling Tile**
 Many spaces have 24"x48" acoustic ceiling tile that is worn and should be considered for replacement. Quantity: 36,230 SF

\$236,000

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Y GBI 1 3 **RR-A19 Replace Asbestos Plaster Ceiling/Soffit** **\$75,000**
 Some spaces have asbestos containing ceiling plaster that should be considered for replacement. Quantity: 3,050 SF Replace with Acoustical Ceiling



Y GBI 1 3 **RR-A20 Replace Lockers** **\$48,000**
 The existing lockers in the corridors are worn and should be considered for replacement. Quantity: 150 LF



Y GBI 1 2 **RR-A21 Replace Aged Blackboards / Tack boards** **\$63,000**
 Several aged blackboard / tack board units exist throughout the building. These units should be considered to be replaced with new whiteboard (dry erase) / tack board units. Quantity: 900 LF whiteboards / tack boards



Y GBI 1 2 **RR-A22 Replace Aged Window Treatments** **\$26,000**
 Existing window treatments throughout the building should be considered for replacement. Quantity: 540 LF

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Y GBI 1 3 **RR-A23 Abate 9"x9" Vinyl Asbestos Floor Tile** **\$470,000**
 The 9"x9" vinyl asbestos floor tile is worn and should be considered for replacement. Quantity: 25,750 SF

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Y GBI 1 3 **RR-A24 Nurse and Social Worker Suite** **\$68,250**
 The existing nurse and social worker suite is outdated and should be renovated to provide a dedicated exam room. Quantity: 1,050 SF

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Y GBI 1 2 **RR-A25 Classroom Addition** **\$600,000**
 An addition is required to accommodate existing student needs. Quantity: 2 classrooms 3,000 SF

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Y GBI 1 3 **RR-A26 Replace Aged Unit Ventilator Shelving** **\$260,000**
 The unit ventilator shelving is aged and should be considered for replacement.
 Quantity: 650 LF

Y GBI 1 3 **RR-A27 Replace Aged Computer Desks** **\$52,500**
 The computer desks are aged and should be considered for replacement.
 Quantity: 150 LF



Y GBI 1 3 **RR-A28 Replace Floor Access Panel to Crawl Space** **\$2,000**
 1 Location



Y GBI 1 2 **RR-A29 Replace Worn Floor Finishes** **\$17,000**
 Replace existing carpet in Library 113A (Quantity: 2,500 SF). Replace existing floor in vestibule outside of Boiler Room (Quantity: 260 SF).



Y GBI 1 3 **RR-A30 Horizontal Masonry Wall Cracking** **\$1,000**
 Some horizontal cracking, possibly due to minor settlements has occurred in RM 136. Provide elastomeric caulk to seal the joints at these locations. These cracks should be monitored to determine if settlements are ongoing. Quantity: 15 LF



Y GBI 1 3 **RR-A31 Lack of Control Joints** **\$7,500**
 Wall cracking was observed at RM 103 and Corridor 100C due to a lack of masonry control joints. Recommend new masonry control joints be cut into these walls at the corners of door and window openings at 5' off of the corners and at a 15' maximum spacing.



Y GBI 1 3 **RR-A32 Control Joint Cracking** **\$6,000**
 Control joints above the door openings throughout the south addition are filled with hard mortar and have cracked. The mortar should be removed and replaced with a flexible joint material. Quantity: 120 LF.



Y GBI 1 3 **RR-A33 Concrete Pitting and Spalling** **\$2,000**
 There is some concrete pitting and spalling in the pit at the Boiler Room. This should be patched with a Sika Repair material.



GBE **IV-RR-GENERAL BUILDING RENOVATIONS-EXTERIOR**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT

Y GBE 1 2 **RR-A34 Repaint Roof Ladders** **\$1,600**
 There are four roof ladders that are corroded and deteriorated and should be cleaned and covered with several coats of epoxy paint.



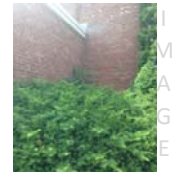
Y GBE 1 2 **RR-A35 Roof Replacement** **\$349,200**
 A portion of roof is out of warranty and should be considered for replacement. Approx. 9,500 SF The roof over the Library, the Auditorium and the Gymnasium have exceeded the warranty period and replacement of these areas is suggested. Quantity: 9,900 SF



Y GBE 1 2 **RR-A36 Replace Deteriorated Exterior Doors** **\$40,000**
 Several exterior doors are deteriorated and should be replaced. Quantity: (8) exterior double doors

IMAGE

Y GBE 1 m **RR-A37 Trim Vegetation Around the Building** **\$800**
 The vegetation in many spots around the building are too close to the exterior façade. Trim all vegetation so that there is at least a foot between wall and plants.



IMAGE

Y GBE 1 3 **RR-A38 Masonry Re-Pointing** **\$1,000**
 Some minor masonry re-pointing / restoration is need outside the Gymnasium and Classrooms 108 and 109



Y GBE 1 2 **RR-A39 Replace Roof Top Unit Supports** **\$600**
 Some roof top unit supports are rusting and are recommended to be replaced.



Y GBE 1 2 **RR-A40 Restore Chimney** **\$3,000**
 The chimney located on the roof has some cracking and should be cleaned and repointed. The precast concrete cap is also cracking and deteriorating and should be considered for replacement.



Y GBE 1 3 **RR-A41 Replace Louvers** \$600
Many of the louvers on the building have reach the end of their useful lives.
Replace (1) on the roof.



Y GBE 1 3 **RR-A42 Replace Plastic Flashing** \$6,000
The white plastic flashing under the stucco wall system is damaged around the entire building and should be replaced.



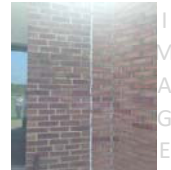
Y GBE 1 3 **RR-A43 Spalling Concrete at Exterior Slab** \$3,500
Much of the concrete slab is beginning to spall. Loose concrete should be removed and surface repairs with a concrete patch such as Sika Repair 223 (for vertical or horizontal surfaces) should be used to prevent further deterioration.



Y GBE 1 3 **RR-A44 Replace Caulk Joints** \$4,000
Recaulked joints around doors and the stucco panel system.



Y GBE 1 3 **RR-A45 Repair Existing Control Joints** \$1,200
Existing control joints are deteriorating and should be scraped and recaulked.



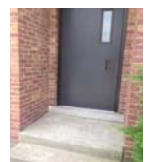
Y GBE 1 3 **RR-A46 Update and Repair the Loading Dock** \$20,000
There are several repairs to be made to the Loading Dock including painting all corroded surfaces like the leveler. To secure the entrance, a permanent rail and chain system should be installed as well as a canopy over the entire area. Damaged concrete should be cleaned and filled. In addition, the stairs and handrails should be replaced.



Y GBE 1 3 **RR-A47 Paint Corroded Structure** \$2,000
The exterior steel columns are showing signs of rusting and deterioration at the base. It is recommended that these columns be cleaned, and repainted with three coats of exterior epoxy paint. In addition, at this entrance, the concrete stairs are deteriorated and should be cleaned and repaired.



Y GBE 1 2 **RR-A48 Replace Exterior Door/Frame** \$3,000
Corrosion and deterioration have occurred at an exterior door. Recommend replacing one door and frame near the boiler room.



Y GBE 1 3 **RR-A49 Replace Brick** **\$10,000**
 On the north wall of the Cafeteria, moisture has entered the brick wall and needs to be repaired. To do this, existing damaged brick should be removed, a waterproofing membrane should be added, and new brick should be set in place.



Y GBE 1 2 **RR-A50 Replace Exit by Classrooms 108 and 109** **\$3,500**
 The exit by Classrooms 108 and 109 is extremely deteriorated and needs replacement. The walls of the ramp need replacement as well as the handrails so that they are ADA accessible. The stairs need cleaning and patching and the handrail on the stairs needs replacement.



Y GBE 1 3 **RR-A51 Replace Metal Panel at Main Entrance** **\$600**
 Replace one metal panel in the wall system at the west main entrance.

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Y GBE 1 3 **RR-A52 Repaint Exterior Ceiling Outside the Gymnasium** **\$2,000**
 The exterior ceiling out side of the gymnasium is exposed and should receive several coats of paint. In addition handrails should be added to this entrance.

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Y GBE 1 2 **RR-A53 Provide Paint for Flashing** **\$4,000**
 The flashing around the entire building is discolored and should be cleaned and painted.

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Y GBE 1 3 **RR-A54 Restore Precast Panels and Lintels** **\$5,000**
 Many precast concrete panels are damaged and need to be cleaned and restored. This also includes the removal and replacement of old caulk. In addition, many metal lintels are corroded and should be cleaned and painted. While cleaning in the area, also remove graffiti from the door to the Gymnasium. Locations: Library and Gymnasium.



Y GBE 1 2 **RR-A55 Repair Exit Stairs and Ramp** **\$16,000**
 The exit by Classrooms 133 and 136 is deteriorated and requires repairs. Handrails should be cleaned and given at least two coats of epoxy paint. All joints on the ramp and stairs should be scraped and recaulked. In addition, the sleeves that the railing is resting in should all be in filled. Locations: Classrooms 118, 120, 133, and 136.



Y GBE 1 3 **RR-A56 Steel Column Base Corrosion** **\$1,500**
 The exterior steel columns at the Vestibule 100 are showing signs of rusting and deterioration at the base. It is recommended that these columns be cleaned, and repainted with three coats of exterior epoxy paint.





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In Project	Category	Year	Priority	Mechanical Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-RR-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i>		
Y	HS	1	2	RR-M1 Office Ventilation Currently there are five offices that do not have any type of ventilation. The rooms are as follows: 102A, 102B, 102C, 102D and the gym office . Install new fan coil units to provide ventilation to the spaces.	\$35,000	I M A G E
Y	HS	1	3	RR-M2 Classroom Relief System There are currently 16 classroom that the relief air transfers to the cooridor which is not up to current code. Install combination fire/smoke dampers in these opening to meet current code.	\$32,000	I M A G E
	GBI			<u>II-RR-GENERAL BUILDING RENOVATIONS</u> <i>RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.</i>		
Y	GBI	1	2	RR-M3 Boiler Replacement The steam boilers have reached the end of their useful life and should be replace. Replace boilers with new high effeciency condensing boilers and infrastructure.	\$650,000	I M A G E
Y	GBI	1	2	RR-M4 Unit Ventilator Replacement There are currently 13 unit ventilators that are steam. Replace with new hot water unit ventilators if boiler is replaced	\$130,000	I M A G E
Y	GBI	1	2	RR-M5 Air Handling Unit Coil Replacement There are currently 2 air handling units that have steam coils. The units are in far shape but the coils must be replaced if the boiler is replaced.	\$15,000	I M A G E

Y GBI 1 2 **RR-M6 Corridor Convector Replacement** **\$12,000**
The existing corridor convectors are steam. If a new boiler is installed replace the existing convector coils with hot water coils

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Y GBI 1 2 **RR-M7 Kitchen Ventilation** **\$35,000**
The existing kitchen has no form of mechanical make-up air to the space. Provide a new kitchen make-up air unit and ductwork.

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Y GBI 1 2 **RR-M8 Controls Upgrade** **\$90,000**
There are currently some controls in the building that are out of date and cannot be replaced. Upgrade outdated controls.

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In Project	Category	Year	Priority	Electrical Recommendations	Estimate	Thumbnails (if any)
	HS			<u>-RR-HEALTH AND SAFETY</u> BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS		
Y	HS	1	1	RR-E1 Exit Egress Signage Replace dim and non-working exit fixtures that violate life safety code requirements. Replace with new energy efficient LED fixtures for increased savings. Provide additional exit fixtures where required to meet current life safety code requirements. (estimate assumes 16 fixtures)	\$3,200	
Y	HS	1	1	RR-E2 Arc Flash Labeling The current electrical system has not been Arc Flash rated and labeled in accordance with current NEC 70E code. Provide testing and proper labeling in compliance with NEC code requirements.	\$5,250	I M A G E
Y	HS	1	1	RR-E3 Replace Fire Alarm System The existing fire alarm system is an FCI zoned type system. Replace complete system with new fully addressable system and provide additional fire alarm audio / visual notification devices in occupied spaces to comply with current NFPA requirements.	\$105,000	I M A G E
Y	HS	1	m	RR-E4 GFCI Receptacles At locations identified, where within 6'-0" of a source of water, replace non-protected receptacle with new GFCI protected device. Identify devices as being "GFCI Protected". (estimate assumes 5 locations)	\$750	
Y	HS	1	2	RR-E5 Exterior Emergency Egress Lighting Provide NFPA Level 1 compliant exterior emergency egress lighting adjacent to all exterior egress doors to meet life safety code standards. (estimate assumes 10 locations)	\$3,500	I M A G E

GBI **II-RR-GENERAL BUILDING RENOVATIONS-INTERIOR**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y	GBI	1	3	RR-E6 T8 Lighting Upgrades	\$314,000		I M A G E
				In areas lit with T8 lamped fixtures with electronic ballasts. Replace fixtures with new LED lit fixtures for increased energy and maintenance savings. Reuse existing wiring and controls.			
Y	GBI	1	3	RR-E7 Occupancy Sensors	\$20,000		I M A G E
				Provide occupancy sensors in all areas not currently having coverage, to comply with NYS energy code requirements and for increased energy savings. (estimate assumes 40 locations)			
Y	GBI	1	3	RR-E8 Daylight Harvesting Lighting Sensors	\$22,500		I M A G E
				Provide daylight harvesting sensors to comply with NYS energy code requirements and to increase energy savings. (estimate assumes 30 locations)			
Y	GBI	1	3	RR-E9 Exposed Lamp Shatter Guards	\$1,000		I M A G E
				In areas with light fixtures that have exposed lamps; provide lamp shatter guard tubes and/or wireguard protection to prevent accidental lamp breakage.			
Y	GBI	1	3	RR-E10 Ceiling Mount Projector Power	\$5,500		I M A G E
				Classrooms with ceiling mount projectors have non-code compliant above ceiling receptacle connections. Relocate all above ceiling receptacles into the ceiling grid panel. (estimate assumes 5 locations and includes cost of ceiling panel)			
Y	GBI	1	2	RR-E11 Replace Power Panels	\$10,000		I M A G E
				Two power panels have been identified as needing replacement. Replace Panel KP-1 with a new power panel, and Panel LP9 with a power panel with contactor.			
Y	GBI	1	3	RR-E12 Provide Additional Power Outlets	\$10,000		I M A G E
				Provide additional receptacles and circuitry in various locations to discourage the use of extension cords and power strips.			

GBE

II-RR-GENERAL BUILDING RENOVATIONS-EXTERIOR

RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBE 1 3

RR-E13 Exterior Canopy Lighting

\$5,400




Replace CFL and HID lamped canopy fixtures. Replace with new LED lit fixtures with remote photo-cells to provide reduced energy usage and reduced maintenance costs. (estimate assumes 12 fixtures)

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Ridge Road

In Project	Category	Year	Priority	Technology Recommendations	Estimate	Thumbnails (if any)
	SBI			<u>I-RR-SMART SCHOOLS BOND INVESTMENT</u> SMART SCHOOLS BOND INVESTMENT PLAN		
Y	SBI	1	1	RR-T1 Network Data Closet Improvements There are three existing network cabinet in Ridge Road Elementary. All locations should recieve architectural changes to isolate the equipment within rooms. The cabinets should be replaced with open racks to allow proper air flow of the network electronics. Network rooms need to be secured, properly cooled & grounded for PoE switches as well as properly powered to prevent outages. Improvements should also include re-cabling where required, a new 10G fiber optic backbone, new patch cables and wire management.	\$235,000	
Y	SBI	1	1	RR-T2 Network Electronics Upgrade The network electronics should be upgraded and reconfigured to maximize bandwidth to the end user. The switches should be capable of 10 Gbps connection to the network backbone and share at least 20 Gbps with the other swithes in the data room. They should alos be sized with proper power supplies so that PoE+ devices can be powered via the switch.	\$105,000	IMAGE
Y	SBI	1	1	RR-T3 Security Video Surveillance The district has begun to phase out the existing analog cameras and DVRs but a complete replacement of the DVR with video recording servers will provide the district with a single, simplified video management system that is versitile and easily expandable. The district has purchased some of the equipment to continue the process however labor, cabling and some additional equipment is needed. The district should focus on corridor, stairwell, entrance and parking lot coverage.	\$45,000	
Y	SBI	1	1	RR-T4 Upgrade Network Data Cabling The existing building data cabling is in unsatisfactory condition in some areas of this section of the building. Some data rooms are potentially being relocated which would require recabling, at which point this issue will be addressed for this section of the high school. The recommendation is to reduce classroom data outlets as wireless will become widly used. Classrooms would recieve four data drops each.	\$189,000	IMAGE
Y	SBI	1	1	RR-T5 Wireless Network Infrastructure To account for more widespread use of wireless devices and the need for a flexible wireless network to support student used devices, the wireless network should be upgraded to the most current wireless-AC standard and expand coverage to all classrooms. Capacity should also be considered so the district has the ability to deploy 1-2-3 devices per student.	\$75,000	

Y SBI 1 1 **RR-T6 Voice over IP Phone System**
Included in High School South



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GBI **II-RR-GENERAL BUILDING RENOVATIONS-INTERIOR**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBI 1 1 **RR-T7 IP Video Distribution to Replace Cable Infrastructure**
The current system is very old and the low and high band channels provide poor viewing quality. The district should look to upgrade this system to an IP based system allowing content and channels to be broadcast over the Local Area Network. This would provide teachers and students with flexible cable & content TV system accessible anywhere.

\$30,000



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In Project	Category	Year	Priority	Food Service Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-RR-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i>		
Y	HS	2	1	RR-FS1 Replace Warming Cabinet Metro warming cabinet are over 22 years old. Recommend replacing within the next 1-2 years with a new energy star rated mobile warming cabinet.	\$5,000	I M A G E
Y	HS	2	1	RR-FS2 Replace Serving Line Custom Serving line is over 40 years old and in need of replacement (no cold food storage, built in milk cooler is not functional, hot food wells old is inefficient and unsanitary, etc...). Recommend replacing the entire serving line within the next 3-5 years with a new modular 4 well hot food unit, refrigerated cold food merchandiser, ice cream unit, free standing milk dispenser and cashiers station.	\$80,000	I M A G E
Y	HS	2	1	RR-FS3 Replace Ceiling Tiles The ceiling tiles are soiled & damaged and this type of tile does not comply with NYS SED requirements (washable non-pores type). Recommend replacing entire ceiling with compliant tiles.	\$0	I M A G E
Y	HS	2	1	RR-FS4 Install Three Compartment Sink Staff is using a Two (2) compartment sink in lieu of a three (3) compartment sink as required by DOH. Recommend replacing the two compartment sink with a three compartment sink.	\$8,000	I M A G E
Y	HS	2	1	RR-FS5 Replace Floor Mixer Hobart floor mixer is very old, leaking oil and not equipped with a bowl safety guard. Recommend replacing the mixer within the next 2-3 years.	\$8,000	I M A G E

Y	HS	2	1	RR-FS6	Replace Steamer & Kettle	\$25,000	I M A G E
					Market Forge gas fired steamer with boiler base appears to be supplying BHP (steam) to the Legion Kettle. The Steamer & kettle are over 50 years old (1960) and not working. Recommend replacing the units with a self-contained kettle and self-contained steamer, reducing the gas demand and increasing efficiency within the next 1-2 years.		
Y	HS	2	1	RR-FS7	Replace Walk-In Cooler	\$25,000	I M A G E
					Step-up walk-in cooler is in very poor condition and potentially a tripping liability. Recommend replacing cooler with new refrigeration system and shelving within the next 1-2 years.		
Y	HS	2	1	RR-FS8	Replace Dishwasher	\$40,000	I M A G E
					Hobart Dishwasher is over 30 years old. In addition the Hatco Booster heater is oversized (45KW) and consuming more electric than required for the dishwasher. Recommend replacing the dishwasher within the next 1-2 years with a unit with built in booster heater and heat reclaim to reduce the energy footprint (electric, water, waste, exhaust).		
Y	HS	2	1	RR-FS9	Renovate Kitchen	\$60,000	I M A G E
					We recommend renovation of the entire kitchen/servery within the next 5 years to allow staff greater flexibility with food offerings and food flow. Add an additional \$60,000 for foodservice replacement items related to a kitchen renovation, i.e. dishtables, paintleg duct, sinks, worktables, mop sink, etc...		



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 P: 607-358-1000
 F: 607-358-1800

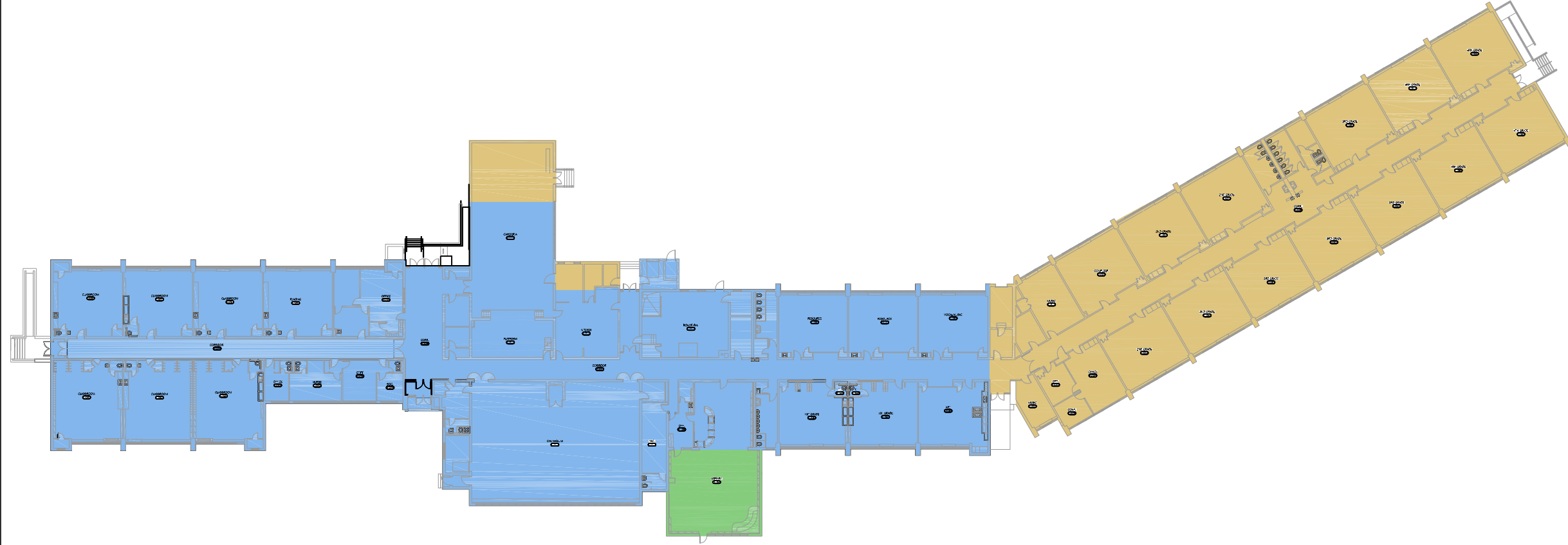
Ridge Road

In Project	Category	Year	Priority	AutoNum	Theatrical Recommendations	Estimate	Thumbnails (if any)
	HS			I	<u>I-RR-HEALTH AND SAFETY</u> BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS		
Y	HS	1	1	1	RR-TH1 Room Acoustics The acoustics in this space are acceptable for a cafeteria style space. Significant improvements in acoustics would require a major ceiling tear out, a high NRC ceiling tile and gridwork and additional, specialized acoustic treatments on the walls below 8' - 0" AFF. These lower wall treatments are easily soiled, and, as such, are not typically embraced from a maintenance standpoint.	\$30,000	I M A G E
Y	HS	1	1	2	RR-TH2 Audio System The existing audio system in this space is older and inadequate. A new audio system is recommended. Lower budget includes basic automated audio system with hearing assistance, amplification, processing and speakers. Upper budget includes an audio console, wireless microphones and related cabling, better speakers, a portable control panel and portable cases.	\$80,000	I M A G E
Y	HS	1	1	3	RR-TH3 Lighting System The existing lighting system consists of a few par cans in the ceiling and a borderlight fixture on stage. These are inadequate for theatrical use and the borderlight is a large energy drain. Lower budget includes new LED stage and front of house wash fixtures and an architectural control system. Upper budget includes additional wash & ellipsoidal LED lighting fixtures, connector strips, a small lighting console, distribution and a small relay rack.	\$65,000	I M A G E
Y	HS	1	1	4	RR-TH4 Houselighting System The existing fluorescent houselighting system appears to be adequate; however, upgrades could be made to convert the existing system to a completely LED based system (depending on the type of lamps in the fluorescent fixtures). Budget includes replacing existing fluorescent tubes with LED tubes if the existing tubes are T5 style, but doesn't include any needed wiring changes.	\$8,000	I M A G E
Y	HS	1	1	5	RR-TH5 Stage Rigging System 1) Most of the stage sets have been suspended by light duty chain not approved for overhead lifting, in questionable ways and with open S hooks, carabiners or open chain links. 2) The trim chains on stage do not have safety bolts. Safety bolts should be added to all stage batten trim chains. This is a subject of discussion in the rigging industry, but properly installed safety bolts are a recommended safety feature. 3) Most of the stage battens appear to have threaded couplings, which can suddenly fail. The battens should all be replaced (included in stage rigging system improvements budget below). 4) It appears that none of the system shackles have been moused so that they cannot come unscrewed. All shackles should be properly moused.	\$3,000	I M A G E

Y	HS	1	1	6	RR-TH6 Stage Rigging System - Improvements The existing stage rigging system has been installed with light duty chain not approved for overhead lifting and in an unsafe manner as well as on battens with threaded couplers. It is recommended that the entire system be replaced.	\$25,000	I M A G E
y	HS	1	1	7	RR-TH7 Stage Rigging System - Curtains Tracks The stage curtains are all IFR (inherently flame retardant) and are circa 2008. These curtains are durable, if not attractive, and still have over half of their useful life available. The existing curtain tracks are very old, in poor condition and should be replaced. Budget includes new curtain tracks, operating lines and sandbag weighted floor pulleys.	\$10,000	I M A G E
Y	HS	1	1	8	RR-TH8 Video Presentation System The existing projector is a low output VGA projector and the existing projection screen is newer, in good condition but is the wrong format for today's video presentations. It is recommended that the system be upgraded with a new projection screen and permanently mounted projector with a stage input. Budget includes new permanently mounted, medium output HD projector, motorized 16:9 video screen and one stage input location with auto-sensing.	\$34,000	I M A G E
y	HS	1	1	9	RR-TH9 FOH Cove Lighting System A front of house (FOH) rigid lighting system is recommended if this space is utilized for performances. Due to the moderate ceiling height of this room; however, adoption may prove to be difficult and put fixtures too close to the floor and invite cafeteria use damage. This can be explored if desired by the owner. Overhead attachments are unknown at this point and could greatly impact the installation costs.	\$10,000	I M A G E

S.E.D. BUILDING CONDITION SURVEY

KEY PLANS



KEY

- 1952 BUILDING
- 1960 ADDITION
- 1965 ADDITION



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RIDGE ROAD ELEMENTARY

FLOOR PLAN

HORSEHEADS CENTRAL SCHOOL DISTRICT

SYSTEMS DESCRIPTIONS



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P: 607-358-1000
F: 607-358-1800

Gardner Road

Site Description

GENERAL BUILDING INFORMATION

Fuel Oil: None noted at time of inspection

Potable Water: Potable water is provided by municipal system.

Sanitary: Sanitary sewer conveyance is to the municipal treatment facility.

Electric: Electric is provided by NYSEG

Natural Gas: Natural gas is provided by NYSEG

Stormwater: Stormwater runoff from building and grounds sheet drain to catch basins, fields and roadside ditches.

Cable/Internet: Television and Internet services are provided to the main building by Time Warner Cable. The maintenance building does not receive television and internet service.

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

East Parking Lot:

Age- Varies

Expected remaining useful life- 2 years

Rating- Unsatisfactory

Description: Located to the east is a asphalt paved parking lot and bus drop-off in poor condition.

West Paved Play area:

Age- Unknown

Expected remaining useful life- 2 years

Rating- Unsatisfactory

Description: Located to the west of the building is a 60-foot wide asphalt play area in poor condition.

Sidewalk:

Age- Varies

Expected remaining useful life- 5-10 years

Rating- Satisfactory

Description: The school has a concrete sidewalk system that provides access to the school from the bus loop and points on the east side of the building. The concrete walks are generally in fair condition.

Handicap Ramp:

Age- Varies
Expected remaining useful life- 10-May
Rating- Satisfactory

Description: At the building on the east side of the main entrance is an at grade concrete handicapped ramp and metal handrail.

ATHLETIC FIELD DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Soccer Fields:

Age- Unknown
Expected remaining useful life- 10-20 years
Rating- Satisfactory

Description: Located west of the building is a soccer field that is used by school students. There is also a backstop likely used for gym classes. The backstop is in fair condition.

Playground Equipment:

Age- Varies
Expected remaining useful life- 5 years
Rating- Varies

Description: Located to the west of the building is a playground complex that has many different kinds of slides, tunnels, swings and climbing apparatuses. The surface between the equipment is wood chips.



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Mechanical Description

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Boilers:

Age- 2012

Expected remaining useful life- 25 Years

Rating- Satisfactory

Description: Three natural gas fired Aerco hot water boilers with an input capacity of 2,000 MBH each provide heated water for the buildings hydronic system. This water is then pumped throughout the building to terminal units.

Domestic Water Systems:

Age- 1965

Expected remaining useful life- 15 Years

Rating- Satisfactory

Description: The water supply is municipal.

Domestic Hot Water:

Age- 2012

Expected remaining useful life- 20 Years

Rating- Satisfactory

Description: Two Lochinvar hot water heaters provide hot water for the domestic water system.

Sanitary and Storm Systems:

Age- 1965

Expected remaining useful life- 15 Years

Rating- Satisfactory

Description: The sanitary waste from the school empties to municipal systems.

Classroom Ventilation/Heat:

Age- 1965

Expected remaining useful life- 5 Years

Rating- Satisfactory

Description: Classroom spaces are served by unit ventilators installed original to the building. This equipment provides air for heating and ventilation, and relief air is exhaust through the corridor plenum to central exhaust fans.

Office Ventilation/Heat:

Age- 1965, 2004

Expected remaining useful life- 5 Years

Rating- Satisfactory

Description: The nurses and main office suites are served by one variable air volume air handling unit installed original to the building. This unit provides air for heating, cooling, and ventilation. A large majority of the air distribution system was replaced with new ductwork and VAV boxes in 2004.

Kitchen:

Age- 1965

Expected remaining useful life- 5 Years

Rating- Satisfactory

Description: One air handling unit provides ducted supply and return air to the space for heating and ventilation. There is an additional unit heater and exhaust hood over cooking equipment.

Cafetorium:

Age- 2000's

Expected remaining useful life- 20 Years

Rating- Satisfactory

Description: One air handling unit provides ducted supply and return air to the space for heating and ventilation.

Gymnasium:

Age- 1965

Expected remaining useful life- 5 Years

Rating- Satisfactory

Description: Four ceiling mounted air handling units provide ducted supply and return air for heating and ventilation to the space.

Kindergarden Classroom Ventilation/Heat:

Age- 1965, 2004

Expected remaining useful life- 5 Years

Rating- Satisfactory

Description: The kindergarden classrooms are served by one air handling unit installed original to the building. This unit provides air for heating, cooling, and ventilation. A large majority of the air distribution system was replaced with new ductwork and reheat coils in 2004.



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Electrical Description

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Emergency / Stand-by Power System:

Age- 7 years
Expected remaining useful life- 23 years
Rating- Satisfactory

Description: Building is backed-up via a Cummins diesel fuel back up generator. There are two separate Automatic Transfer Switches serving both Life Safety and Standby power loads, adherient to NFPA Level 1 design standards.

Exit Egress Path Signage

Age- 12 years
Expected remaining useful life- 3 years
Rating- Unsatisfactory

Description: Exist signage icomprised of both LED lit signage and unlit graphic stickers. The majority of the Exit fixtures are either unlit or very dim and do not clearly identify path of egress.

Interior Emergency Egress Lighting

Age- 7 to 12 years
Expected remaining useful life- 3 to 13 years
Rating- Satisfactory

Description: Limited corridor fluourescent fixtures are connected to Life Safety power circuits providing emergency lighting along path of egress within building corridors.

Exterior Emergency Egress Lighting

Age- 1 year
Expected remaining useful life- 19 years
Rating- Unsatisfactory

Description: Exterior emergency lighting is limited to primary secured entrances constructed 2014-2015 school year. The remainder of exterior doors lack emergency lighting.

Fire Alarm Systems:

Age- 7 to 12 years
Expected remaining useful life- 13 to 9 years
Rating- Satisfactory

Description: The Fire Alarm system is a Notifier AFP-400 fully addressable system. Detection and notification devices appear to be adequate; although additional devices are required at various locations to comply with current life safety codes.

Electrical Service Entrance:

Age- 50 years
Expected remaining useful life- 1 year
Rating- Unsatisfactory

Description: 12470V 600A underground service to original building primary switch. 120/208V 800A, 3 phase, 4 wire service fed into Cutler Hammer MDP.

General Lighting:

Age- 7 to 26 years
Expected remaining useful life- 3 to 13 years
Rating- Satisfactory

Description: The majority of building's lighting consists of fluorescent T8 fluorescent containing electronic ballasts.

Building Mount Exterior Lighting

Age- 1 to 20 years
Expected remaining useful life- 19 to 1 years
Rating- Satisfactory

Description: The exterior building mount lighting consists of a mix of HID, incandescent, and compact fluorescent fixtures controlled via photo-cell and/or timeclocks.

Electrical Power Distribution Panels:

Age- 7 to 50 years
Expected remaining useful life- 23 to 1 years
Rating- Satisfactory

Description: The electrical distribution panels vary from new up to date panels to some older original vintage construction panels. The original construction panels have exceeded their expected useful life. The buildings's power distribution equipment does not comply with current NEC 70E code requirements for testing and labeling of Arc Flash ratings.

Wiring Devices

Age- 50 years

Expected remaining useful life- 1 year

Rating- Unsatisfactory

Description: The majority of the electrical wiring devices in the building date to the original construction and have exceeded their expected useful life. Several spaces in the building have inadequate receptacle coverage. Several classrooms have ceiling mounted projectors that connect to a receptacle concealed above the ceiling which is a violation of current NEC code requirements.

Motor Starters:

Age- 25 years

Expected remaining useful life- 5 years

Rating- Satisfactory

Description: Large HP 3 phase motors throughout the facility are equipped with inefficient magnetic motor starters.



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Gardner Road

Technology Description

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Data Network Infrastructure:

Age- 10-15 Years
Expected remaining useful life- 1-3 Years
Rating- Unsatisfactory

Description: Gardner Road Elementary School is connected to the district's network via Southern Tier Network single mode fiber. The current electronics support a 1 Gbps connection.. There are three data rooms in the building that connect to each other over OM1 multi-mode fiber and distribute data to classrooms using a mix of Cat5 & 5e twisted pair cabling. All data rooms are shared spaces and utilize some wall mounted racks. There is no air conditioning in the spaces. The network switches are a mix of 10/100 & 10/100/1000 Mbps and mostly older than 5 years.

Internet Services:

Age- NA
Expected remaining useful life- NA
Rating- Satisfactory

Description: Internet service is received through GST BOCES via the Southern Tier Network leased fiber.

Voice Systems:

Age- 10-15 Years
Expected remaining useful life- 1-3 Years
Rating- Unsatisfactory

Description: The existing phone system is a digital PBX solution that is no longer supported. The PBX in Gardner Rd connects to the district's system located in the NOC. It has voice mail and auto attendant features however lack of support makes these features vulnerable to downtime in the event of a hardware failure. The system is connected to the district wide system allowing dialing and call routing within district. Office locations have digital hand sets and all classroom phones are analog sets using Cat3.

Wireless Technologies:

Age- 5-7 Years

Expected remaining useful life- 3-5 Years

Rating- Unsatisfactory

Description: Currently there is a Cisco wireless solution witch consists of wireless access points that connect to a wireless controller. Most access points are deployed with external antennas and mounted in some classrooms. Not all instructional areas have reliable wireless coverage.

Paging Systems:

Age-

Expected remaining useful life-

Rating-

Description: The current paging system consists of a small Dukane interface in the main office with remote amplification. The speakers throughout the facility are connected via distributed cabling at cross connect locations.

Clock Systems:

Age- Undetermined

Expected remaining useful life- 7-10 Years

Rating- Satisfactory

Description: A Visiplex clock system serves all instructional, administrative and assembly spaces. The system is controlled by a master clock controller to synchronize the time.

Video Systems:

Age- 10+ Years

Expected remaining useful life- 1-3 Years

Rating- Unsatisfactory

Description: There is cable TV coaxial cable throughout the building. The backbone is distributed from the building entry point via Blonder Tongue amplifiers. There are TV connections and CRT Televisions in most classrooms. The district reports quality problems that a most likely due to signal strength and balance throughout the distribution system.

Classroom Technologies:

Age- Various Ages
Expected remaining useful life- 5 Years
Rating- Satisfactory

Description: Each room is equipped with a smart board with integrated audio. There is also a CRT monitor that utilizes the district's cable TV service.

Computer Labs:

Age- NA
Expected remaining useful life- 5-7 Years
Rating- Satisfactory

Description: Gardner Road has two computer labs available to the students along with several classroom workstations. Both computer lab are connected to the LAN using the network cabinet within the room that distributes copper cabling to all the stations. There are approximately 32 current workstations within the lab.

Security Access Control System:

Age- 5-7 Years
Expected remaining useful life- 7-10 Years
Rating- Satisfactory

Description: There is a secured entrance is under construction that will allow visitors to enter at the main office only, forcing them to sign in with personnel. It utilizes intercoms at the exterior and controlled doors in the vestibule to control access. There is a panic button in the office that will lock exterior entrances and release fire doors in the building. Most heavily used entrances have access control however door contacts are not present at all exterior door locations.

Video Surveillance:

Age- Various Ages
Expected remaining useful life- 1-3 Years
Rating- Unsatisfactory

Description: There is currently an analog Pelco system installed with coverage at all entrances and select corridors however the district has begun to add megapixel IP cameras to the network and installing video recording server to replace the existing DVR that record the analog cameras. The IP camera upgrades were mostly based around the secured entrance areas. The district purchased some cameras and are rolling them out in phases.



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Theatrical Equipment Description

General Building Information

Room Acoustics

Age- None present
Expected remaining useful life- N/A
Rating- N/A

Description: The room's frequency response and reverberation times are acceptable but could use improvement.

Audio System

Age- Unable to verify
Expected remaining useful life- At the end of its useful life
Rating- Poor

Description: No mixer was located for the audio system.

Lighting System

Age- N/A
Expected remaining useful life- N/A
Rating- N/A

Description: The only "lighting system" is one set of track fixtures in the house (FOH) location. This is inadequate.

Houselighting System

Age- Unable to verify

Expected remaining useful life- Unable to determine
Rating- Acceptable

Description: We recommend upgrades to LED tubes for all of the existing fluorescent lights for improved energy savings and overall lamp life expectancy.

Stage Rigging System

Age- 15+ Years
Expected remaining useful life- Near the end of its useful life
Rating- Poor

Description: The stage rigging system has many deficiencies and safety concerns. It should all be replaced.

Stage Rigging System - Curtains

Age- Approx. 14 Years
Expected remaining useful life- <6 Years
Rating- Good Overall Performance

Description: Though the curtains are inherently flame retardant (IFR), they will need to be replaced in the next few years.

Video Presentation System

Age- Unable to verify
Expected remaining useful life- Unable to determine
Rating- Fair







Description: The existing screen is older, the format is outdated and a projector could not be located. System should be upgraded.

RECOMMENDATIONS



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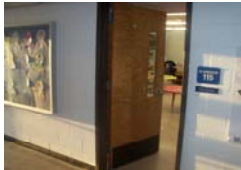



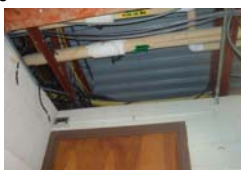
Gardner Road

In Project	Category	Year	Priority	Site Recommendations	Estimate	Thumbnails (if any)
	GSR			<u>I-GR-GENERAL SITE RENOVATIONS</u> <i>GENERAL SITE RENOVATIONS</i>		
Y	GSR	1	1	GR-L1 Asphalt Pavement Asphalt pavement throughout the site is in poor condition and should be replaced. New section of pavement was observed to the east. This pavement section should be crack sealed and surface sealed.	\$998,000	
Y	GSR	1	3	GR-L2 Dumpster Enclosures/Pad Dumpster enclosure and pads should be added for safety and security of dumpsters.	\$40,000	
Y	GSR	1	3	GR-L3 Fencing Replace 4' high fencing between bus loop and parking lot. Fence has been damaged by cars. Consider replacing with heavy duty fencing/barrier.	\$26,000	
y	GSR	1	2	GR-L4 South Asphalt Play Area Asphalt pavement throughout the site is in poor condition and should be replaced. Southern play area replacement price is included in GR-L1	\$0	
Y	GSR	1	2	GR-L5 Playground and Hard Play Area Playground equipment is in good conditions and appears to be well maintained. Equipment should be inspected for compliance with current CPSC guidelines. Price included replacement of playground equipment only. Price for hard play asphalt is included in GR-L1	\$250,000	
Y	GSR	1	2	GR-L6 Lighting Parking lot lighting is old technology and should be upgraded to new LED fixtures for energy savings.	\$40,000	



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In Project	Category	Year	Priority	Architectural Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-GR-HEALTH AND SAFETY</u> BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS),		
Y	HS	1	3	GR-A1 Replace Doors that are Not Fire Rated and/or Handicapped Accessi Many corridor doors are aged and/or are not fire rated in accordance with current code requirements. Additionally, many of these doors lack operational door closers, and have old lock sets and door knobs that are not handicap accessible, and/or have non-impact resistant glass. These doors should be replaced with fire rated doors and frames as required by current code. Quantity: 56 rated doors	\$168,000	
Y	HS	1	3	GR-A2 Replace Wire Glass in Media Center Window Assembly A recent project provided door and window assemblies throughout the building with wire glass at fire rated locations. Although the glass meets the fire rating requirement, it does not meet the impact safety requirements outlined in the current NYSED code. Replacing the glass with fire rated glass should be considered. Quantity:1 Window Assembly	\$2,500	
Y	HS	1	3	GR-A3 Replace Non-Impact Resistant Glass There are many display cases throughout the building that contain glass that is not meeting the current code. There are also some window assemblies (non-fire rated) that do not have impact safety glass installed. Replacing the glass with impact safety glass should be considered. Quantity: 9 display cases and 2 interior window assemblies	\$10,000	
Y	HS	1	3	GR-A4 Provide Handrails at Existing Platform Stairs The existing stairs leading from the corridor to the platform level do not have handrails as required by building code. Quantity: 10 LF	\$600	
Y	HS	1	3	GR-A5 Corridor Walls All existing corridor walls do not provide a proper fire rating as required by code. Provide a UL listed fire rated wall assembly from top of existing cmu wall to bottom of existing deck at all corridor walls as required by code. Quantity: 4,500 SF	\$45,000	

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Y HS 1 3 **GR-A6 Storage Under Stage** \$5,000
 Storage under stages is no longer allowed by building code and removal of existing doors with a wood infill to match existing is recommended.



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Y HS 1 3 **GR-A7 Investigate U-Shaped Roof Joists** \$5,000
 There are a number of U-shaped steel joists present throughout this building. The construction of the top chord of these joists allow for the collection of moisture and possible deterioration of the joists. No significant deterioration was noted; however the deterioration is not always visible from below. A more in-depth investigation of the joists is recommended to determine if any deterioration is present.



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Y HS 1 1 **GR-A8 Second Means of Egress** \$15,000
 Three Kindergarten Classrooms require a second means of egress based on the square footage of each room. Provide a second means of egress by altering existing storefront system to accept a door.

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Y HS 2 1 **GR-A9 Update Coiling Door at Dishwashing Station** \$3,500
 The current door for the dishwashing station is not fire rated and not appropriate for this location. Consider replacing the door with a fire rated coiling door and infilling a portion of the wall to match existing.

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Y HS 1 1 **GR-A10 Update Coiling Door in Gymnasium** \$6,000
 The current door is not fire rated and not appropriate for this location. Consider replacing the door with a fire rated coiling door.

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ADA **II-GR-PHYSICALLY DISABLED ACCESS (ADA)**
 AMERICANS WITH DISABILITIES ACT (ADA) COUNCIL OF AMERICAN BUILDING OFFICIALS / AMERICAN NATIONAL STANDARDS INSTITUTE (CABO / ANSI)

Y ADA 1 2 **GR-A11 Update Toilet Room to be Handicap Accessible** \$270,000
 Many toilet rooms are not handicap accessible due to the lack of clearances, grab bars, appropriate toilet and sink fixtures and/or lever style faucets. Some of these toilet rooms also do not have compliant ADA signage. Updating this toilet room in accordance with current code should be considered. Quantity: 18 toilet rooms



Y ADA 1 3 **GR-A12 Update Drinking Fountains to be Handicap Accessible** **\$4,000**
 Several non-accessible drinking fountains exist throughout the building. These drinking fountains should be updated to satisfy current code. Quantity: 2 drinking fountains

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Y ADA 1 3 **GR-A13 Existing Corridors** **\$60,000**
 There are several locations throughout the building where the existing corridor is too small to comply with current ADA requirements. Modify existing openings and partitions to comply with existing ADA requirements. Quantity: 6 Locations



GBI **III-GR-GENERAL BUILDING RENOVATIONS-INTERIOR**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT

Y GBI 1 2 **GR-A14 Replace Casework** **\$751,500**
 The existing storage and sink systems in classrooms are an assortment of aged units that are no longer functional or aesthetically pleasing or ADA compliant. This casework should be considered for replacement. Quantity: 1670 LF



Y GBI 1 3 **GR-A15 Provide Vestibules** **\$40,000**
 There are several locations where an additional set of door doors will create an air lock allowing better thermal performance and comfort. Quantity: 5 sets of double doors

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Y GBI 1 3 **GR-A16 Renovate Gym** **\$61,500**
 Additional wall pads should be considered (Quantity: 80 LF). The wood flooring in this space is in need of sanding, restriping and resurfacing (Quantity: 4,250 SF) and the existing wood bench should be considered for replacement (Quantity: 50 LF).

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Y GBI 1 3 **GR-A17 Platform Stage Floor Finish** **\$7,000**
 Sand and resurface existing stage floor. Quantity: 700 SF



Y GBI 1 3 **GR-A18 Stage Proscenium** **\$16,000**
 The existing wood proscenium is worn and dated and should be replaced. Quantity: 200 SF



Y GBI 1 3 **GR-A19 Replace Acoustic Ceiling Tile** **\$267,475**

Many spaces have 24"x48" acoustic ceiling tile that is worn and should be considered for replacement. Quantity: 41,150 SF



Y GBI 1 3 **GR-A20 Library** **\$275,000**

Renovate existing Library including all casework, finishes and circulation desk. Quantity: 2200 SF



Y GBI 1 2 **GR-A21 Gang Toilet Rooms** **\$281,750**

Renovate existing Gang Toilet Rooms including all fixtures and finishes. Quantity: 1750 SF

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Y GBI 1 1 **GR-A22 Health Office** **\$60,000**

Renovate existing Health Office/Nurse area. Quantity: 480 SF



Y GBI 1 1 **GR-A23 Corridor Cubbies** **\$76,800**

Replace existing wood cubbies with lockers to meet SED planning standard requirements. (256 LF)

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Y GBI 1 1 **GR-A24 Replace Aged Blackboards / Tack boards** **\$86,800**

Several aged blackboard / tack board units exist throughout the building. These units should be considered to be replaced with new whiteboard (dry erase) / tack board units. Quantity: 1240 LF whiteboards / tack boards



Y GBI 1 1 **GR-A25 Replace Aged Window Treatments** **\$41,760**

Existing window treatments throughout the building should be considered for replacement. Quantity: 870 LF



Y GBI 1 1 **GR-A26 Abate 9"x9" Vinyl Asbestos Floor Tile** **\$591,500**

The 9"x9" vinyl asbestos floor tile is worn and should be considered for replacement. Quantity: 31,750 SF

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Y GBI 1 1 **GR-A27 Replace Aged Unit Ventilator Shelving** **\$324,000**
 The unit ventilator shelving is aged and should be considered for replacement.
 Quantity: 810 LF



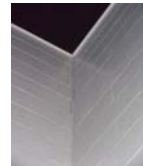
Y GBI 1 1 **GR-A28 Replace Aged Computer Desks** **\$35,000**
 The computer desks are aged and should be considered for replacement.
 Quantity: 100 LF

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Y GBI 1 1 **GR-A29 Replace Worn Floor Finishes** **\$28,000**
 Replace existing quarry tile in Kitchen (Quantity: 1,400 SF).

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Y GBI 1 1 **GR-A30 Minor Masonry Wall Cracking** **\$1,500**
 Masonry walls in the Cafetorium have a small vertical separation of the joint between the interior partition. Provide elastomeric caulk to seal the joints at these locations. Quantity: 50 LF



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Y GBI 1 1 **GR-A31 Horizontal Masonry Wall Cracking** **\$1,000**
 Some horizontal cracking, possibly due to minor settlements has occurred in the south end of Corridor C100 . Provide elastomeric caulk to seal the joints at these locations. These cracks should be monitored to determine if settlements are ongoing. Quantity: 30 LF



Y GBI 1 1 **GR-A32 Exterior Masonry Wall Cracking** **\$2,000**
 There is some cracking present in the west exterior non-load bearing walls of all three wings. There is no clear cause of this cracking. Further investigation is recommended to determine the cause and possible repairs.

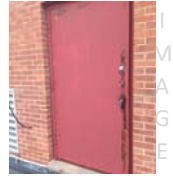


GBE **IV-GR-GENERAL BUILDING RENOVATIONS-EXTERIOR**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBE 1 1 **GR-A33 Replace Supports on Roof Top Unit** **\$1,200**
 The supports for the roof top unit that is near the main entrance are rusting and should be considered for replacement.



Y GBE 1 1 **GR-A34 Replace Roof Access Door and Frame** **\$3,000**
The access door and frame for the roof is corroded and should be considered for replacement.



Y GBE 1 1 **GR-A35 Replace Exterior Doors** **\$12,000**
Three exterior doors, one outside the Cafetorium, one between the Cafetorium and Gymnasium, and a third outside the Gymnasium, are all metal and should be replaced with glass doors. Quantity: (2) double doors and (1) single door.



Y GBE 1 1 **GR-A36 Recaulk and Repaint Exterior Steel Columns** **\$4,000**
Most of the exterior steel columns should receive a several coats of finish paint after rust has been removed. They should also be recaulked to prevent further damage or deterioration.



Y GBE 1 1 **GR-A37 Replace Deteriorated Exterior Doors** **\$56,000**
Several exterior doors are deteriorated and should be replaced. Quantity: 4 exterior double doors and 12 exterior single doors



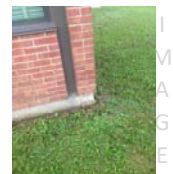
Y GBE 1 1 **GR-A38 Roof Replacement** **\$1,090,800**
The majority of the roof system on the building is out of warranty and should be replaced. Quantity: 60,600 SF. Roof drains should be added to prevent ponding.



Y GBE 1 1 **GR-A39 Repair Exterior Caulk Joints and Railing** **\$2,000**
The exterior railing at the north end of the main corridor is corroded and chipping and should be prepped and repainted. Additionally, exterior doors around the building are in fair condition but the caulk joints should be scraped and re-caulked.



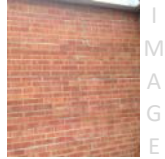
Y GBE 1 1 **GR-A40 Repair Chipped Concrete** **\$800**
The concrete in the courtyard between the north and middle wings is severely chipped and should be cleaned and patched.



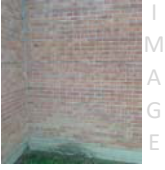
Y GBE 1 1 **GR-A41 Masonry Re-Pointing** **\$600**
Some minor masonry re-pointing / restoration is need outside rooms 107 and 114.



Y GBE 1 1 **GR-A42 Vertical Masonry Cracking** **\$6,000**
 Located at the middle wing exterior entrance to the left side of the door as well as at the south wing at the right of the door, there is vertical cracking in the brick façade. Recommend replacing and restoring the brick in this area.



Y GBE 1 1 **GR-A43 Stepped Masonry Cracking** **\$8,000**
 Located at the middle wing exterior entrance to the right side of the door, there is stepped cracking. Recommend replacing and restoring the brick in this area.



Y GBE 1 1 **GR-A44 Water Damage to Exterior** **\$4,000**
 Located at the middle wing exterior entrance to the left side of the door, there is water damage to the wall that has been caused by the downspout. Recommend replacing the brick in the area and also checking the downspout for failures.



Y GBE 1 1 **GR-A45 Spalling Concrete at Exterior Corners** **\$4,000**
 Some of the exterior concrete corners are beginning to spall. Loose concrete should be removed and surface repairs with a concrete patch such as Sika Repair 223 (for vertical or horizontal surfaces) should be used to prevent further deterioration. This condition is found at 5 corners.



Y GBE 1 1 **GR-A46 Replace Metal Door** **\$3,000**
 The exterior door that connects to the Gymnasium is rusting and deteriorating and should be replaced with an aluminum door.



Y GBE 1 1 **GR-A47 Steel Canopy Corrosion** **\$6,000**
 The exterior steel underside of the canopy at the main entrance is showing signs of rusting. It is recommended that the underside be cleaned, and repainted with three coats of exterior epoxy paint.



Y GBE 1 1 **GR-A48 Canopy Column Base Corrosion** **\$4,000**
 There is corrosion at the base of the steel canopy columns. These columns should be cleaned and painted with an appropriate exterior application to prevent further deterioration.



Y GBE 1 1 **GR-A49 Replace Exterior Brick Control Joints** **\$1,200**
 There is minor cracking at the brick veneer. We recommend that control joints get in the brick veneer be cleaned and re-caulked. Clean and repaint brick in these areas where cracking and mortar deterioration and discoloration has occurred.



Y GBE 1 1 **GR-A50 Check Tops of All Columns for Insects**
The tops of the exterior steel columns have a small covered area that insects are occupying. Recommend infilling this spaces after proper cleaning.

\$2,000



Y GBE 1 1 **GR-A51 Repair Damaged Masonry**
One of the corners on the north wing is damaged and deteriorating. Recommend replacing the brick and repairing the corner.

\$800





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 Airport Corporate Park, 100 Hunt Center
 Horseheads, NY 14845-1019
 P: 607-358-1000
 F: 607-358-1800

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In Project	Category	Year	Priority	Mechanical Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-GR-HEALTH AND SAFETY</u> BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS		
Y	HS	1	2	GR-M1 Faculty Room Ventilation The faculty room currently lacks ventilation. Install new blower coil unit and ductwork to provide ventilation to the space.	\$15,000	I M A G E
Y	HS	1	2	GR-M2 Office Ventilation An office located between room 302 and 304 currently has no form of ventilation. Install a new fan coil and ductwork to provide ventilation to the space.	\$10,000	I M A G E
	GBI			<u>II-GR-GENERAL BUILDING RENOVATIONS</u> RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.		
Y	GBI	1	2	GR-M3 Replace Unit Ventilators The unit ventilators that serve the classroom spaces are original to the building and have reached the end of their useful life. Replace existing unit ventilator with new. Approximately 30 unit ventilators	\$300,000	I M A G E
Y	GBI	1	2	GR-M4 Classroom Air Handling unit Replacement The existing air handling unit serving classrooms 100, 102, and 104 is original to the building and has reached the end of its useful life. Install new air handler	\$30,000	I M A G E
Y	GBI	1	2	GR-M5 Secondary Piping Reconfiguration The existing secondary zones of the building are currently using a 3 way valve to reset the water temperature in the zone. Install a new 2 way valve to reset the water temperature to allow the primary pump's VFD to modulate more effeciently and provide more energy savings to the building	\$23,000	I M A G E

Y	GBI	1	2	GR-M6	Media Center/Main Office Air Handling Unit Replacement	\$60,000	
					The existing air handler and condensing unit serving the media center and main office is original and has reached the end of its useful life. Install new air handling unit and associated condensing unit.		I M A G E
Y	GBI	1	2	GR-M7	Kitchen Air Handling Unit Replacement	\$30,000	
					The existing air handler for the kitchen is original and has reached the end of its useful life and should be replaced.		I M A G E
Y	GBI	1	2	GR-M8	Kitchen Hood Exhaust Fan Replacement	\$10,000	
					The existing kitchen hood exhaust fan has reached the end of its useful life and should be replaced.		I M A G E
Y	GBI	1	2	GR-M9	Gymnasium Air Handling Unit and Ductwork Replacement	\$75,000	
					The existing gymnasium air handler units and ductwork are original to the building and have reached the end of their useful life and should be replaced.		I M A G E
Y	GBI	1	2	GR-M10	Locker Room Air Handling Unit Replacement	\$30,000	
					The locker room air handling unit is original to the building and has reached the end of its useful life and should be replaced.		I M A G E
Y	GBI	1	2	GR-M11	Control Upgrades	\$90,000	
					Some of the older controls in the building have reached the end of their useful life and should be replaced.		I M A G E



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In Project	Category	Year	Priority	Electrical Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-GR-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i>		
Y	HS	1	1	GR-E1 Exit Egress Signage Replace dim and non-working exit fixtures that violate life safety code requirements. Replace with new energy efficient LED fixtures for increased savings. Provide additional exit fixtures where required to comply with current life safety code requirements. (estimate assumes 16 fixtures)	\$3,200	
Y	HS	1	1	GR-E2 Arc Flash Labeling The current electrical system has not been Arc Flash rated and labeled in accordance with current NEC 70E code. Provide testing and proper labeling in compliance with NEC code requirements.	\$6,350	 I M A G E
Y	HS	1	1	GR-E3 Fire Alarm Audio / Visual Notification Devices Provide additional fire alarm audio / visual notification devices in occupied spaces to comply with current NFPA requirements. (estimate assumes 54 locations)	\$10,800	I M A G E
Y	HS	1	m	GR-E4 GFCI Receptacles At locations identified, where within 6'-0" of a source of water, replace non-protected receptacle with new GFCI protected device. Identify devices as being "GFCI Protected". (estimate assumes 4 locations)	\$600	I M A G E
Y	HS	1	2	GR-E5 Exterior Emergency Egress Lighting Provide NFPA Level 1 compliant exterior emergency egress lighting adjacent to each exterior egress doors to meet Life Safety code requirements. (estimate assumes 10 locations)	\$3,500	I M A G E

GBI **II-GR-GENERAL BUILDING RENOVATIONS-INTERIOR**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBI 1 1 **GR-E6 T8 Fluorescent Lighting Upgrades** **\$381,000**

In areas lit with T8 lamped fixtures with electronic ballasts. Replace fixtures with new LED lit fixtures for increased energy and maintenance savings. Reuse existing wiring and controls.

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Y GBI 1 3 **GR-E7 Occupancy Sensors** **\$38,000**

Provide occupancy sensors in all areas not currently having coverage to comply with NYS energy code requirements and for increased energy savings. (estimate assumes 76 locations)

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Y GBI 1 3 **GR-E8 Daylight Harvesting Lighting Sensors** **\$33,000**

Provide daylight harvesting sensors to comply with NYS energy code requirements and for increased energy savings. (estimate assumes 44 locations)

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Y GBI 1 2 **GR-E9 Power Distribution Panels** **\$50,000**

Replace original construction power panels with new power panels and feeders to support new and existing loads. (estimate assumes 10 panels)



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Y GBI 1 3 **GR-E10 Ceiling Mount Projector Power** **\$11,000**

Classrooms with ceiling mount projectors have non-code compliant above ceiling receptacle connections. Relocate all above ceiling receptacles into the ceiling grid panel. (estimate assumes 10 locations and includes cost of ceiling panel)



Y GBI 1 3 **GR-E11 Provide Additional Power Outlets** **\$10,000**

Provide additional receptacles and circuitry to discourage the use of extension cords and power strips.

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II-GR-GENERAL BUILDING RENOVATIONS-EXTERIOR

RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBE 1 3 **GR-E12 Exterior Wall Mount Lighting** **\$5,400**
Replace existing HID, HPS, CFL, and incandescent exterior wall mount fixtures with new LED fixtures with photo-cells to provide reduced energy usage and reduced maintenance costs. (estimate assumes 12 fixtures)

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Y GBE 1 3 **GR-E13 Exterior Canopy Lighting** **\$5,400**
Replace CFL and HID lit canopy mount lighting fixtures with LED lit fixtures with remote mount photo-cells to provide reduced energy usage and reduced maintenance costs. (estimate assumes 12 fixtures)

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Gardner Road

In Project	Category	Year	Priority	Technology Recommendations	Estimate	Thumbnails (if any)
SBI				<u>I-GR-SMART SCHOOLS BOND INVESTMENT</u> SMART SCHOOLS BOND INVESTMENT PLAN		
Y	0	1	1	GR-T1 Network Data Closet Improvements There are four existing network cabinet in Gardner Road Elementary. All locations should receive architectural changes to isolate the equipment within rooms. The cabinets should be replaced with open racks to allow proper air flow of the network electronics. Network rooms need to be secured, properly cooled & grounded for PoE switches as well as properly powered to prevent outages. Improvements should also include re-cabling where required, a new 10G fiber optic backbone, new patch cables and wire management.	\$162,000	 I M A G E
Y	0	1	1	GR-T2 Network Electronics Upgrade The network electronics should be upgraded and reconfigured to maximize bandwidth to the end user. The switches should be capable of 10 Gbps connection to the network backbone and share at least 20 Gbps with the other switches in the data room. They should also be sized with proper power supplies so that PoE+ devices can be powered via the switch.	\$105,000	I M A G E
Y	0	1	1	GR-T3 Security Video Surveillance The district has begun to phase out the existing analog cameras and DVRs but a complete replacement of the DVR with video recording servers will provide the district with a single, simplified video management system that is versatile and easily expandable. The district has purchased some of the equipment to continue the process <i>however labor, cabling and some additional equipment is needed.</i> The district should focus on corridor, stairwell, entrance and parking lot coverage.	\$50,000	 I M A G E
Y	0	1	1	GR-T4 Upgrade Network Data Cabling The existing building data cabling is in unsatisfactory condition in some areas of this section of the building. Some data rooms are potentially being relocated which would require recabling, at which point this issue will be addressed for this section of the high school. The recommendation is to reduce classroom data outlets as wireless will become widely used. Classrooms would receive four data drops each.	\$212,000	I M A G E
Y	0	1	1	GR-T5 Wireless Network Infrastructure To account for more widespread use of wireless devices and the need for a flexible wireless network to support student used devices, the wireless network should be upgraded to the most current wireless-AC standard and expand coverage to all classrooms. Capacity should also be considered so the district has the ability to deploy 1-2-3 devices per student.	\$60,000	 I M A G E
Y	0	1	1	GR-T6 Voice over IP Phone System Included in High School South		I M A G E
GBI				<u>II-GR-GENERAL BUILDING RENOVATIONS-INTERIOR</u> RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.		
Y	GBI	1	1	GR-T7 IP Video Distribution to Replace Cable Infrastructure The current system is very old and the low and high band channels provide poor viewing quality. The district should look to upgrade this system to an IP based system allowing content and channels to be broadcast over the Local Area Network. This would provide teachers and students with flexible cable & content TV system accessible anywhere.	\$30,000	 I M A G E



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 F: 607-358-1800

Gardner Road

In Project	Category	Year	Priority	Food Service Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-GR-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i>		
Y	HS	2	1	GR-FS1 Replace Exhaust Hood The Cockle Exhaust hood over the ovens is very old and does not comply with NFPA code 96 (no grease cup or perimeter trough and the grease filters are mesh) and does not adequately cover the cooking equipment. The exhaust duct is not fire wrapped and has direct contact with the ceiling tile. In addition the duct located in the mezzanine does not appear to be compliant with code (Inline fan & flex joints). Recommend replacing with an energy efficient exhaust hood within the next 1-2 years with new duct work & roof top exhaust and supply air fan. (\$30,000.00 – does not include fans or duct work).	\$30,000	I M A G E
Y	HS	2	1	GR-FS2 Install Fire Suppression System There is no Fire Suppression System installed in the hood per NFPA code 96 requirements. Recommend installing a Fire Suppression System ASAP.	\$3,500	I M A G E
Y	HS	2	1	GR-FS3 Replace Warming Cabinet Metro warming cabinet are over 22 years old. Recommend replacing within the next 1-2 years with a new energy star rated mobile warming cabinet.	\$5,000	I M A G E
Y	HS	2	1	GR-FS4 Replace Serving Line Custom Serving line is over 40 years old and in need of replacement (no cold food storage, built in milk cooler is not functional, hot food wells old is inefficient and unsanitary, etc...). Recommend replacing the entire serving line within the next 3-5 years with a new modular 4 well hot food unit, refrigerated cold food merchandiser, ice cream unit, free standing milk dispenser and cashiers station.	\$80,000	I M A G E
Y	HS	2	1	GR-FS5 Replace Refrigerator Victory 3 door pass-thru Refrigerator is over 30 years old and inefficient. Recommend replacing unit with a new energy star rated Refrigerator within the next 2-4 years.	\$10,000	I M A G E

Y	HS	2	1	GR-FS6 No Paper & Dry Food Storage	\$0	I M A G E
				There is no paper or dry food storage in the kitchen. Recommend storing paper and dry food in a separate room to mitigate clutter and combustible materials from being stored in the kitchen.		
Y	HS	2	1	GR-FS7 Replace Kettle & Steamer	\$25,000	I M A G E
				Market Forge gas fired boiler appears to be supplying BHP (steam) to the Legion Kettle & Market Forge steamer. The Steamer & kettle are over 50 years old (1960) and in poor condition. Recommend replacing the units with a self-contained kettle and self-contained steamer, reducing the gas demand and increasing efficiency within the next 2-3 years.		
Y	HS	2	1	GR-FS8 Replace Oven	\$18,000	I M A G E
				Market Forge double deck baking oven is in poor condition and electric (15.3KW). Recommend replacing the oven with a Gas fired Combination Oven or double deck Convection oven within the next 2-3 years to reduce the electric demand.		
Y	HS	2	1	GR-FS9 Replace Ceiling	\$0	I M A G E
				Existing ceiling is soiled and appears to have mold on the surface. Recommend cleaning, painting or replacing the ceiling in the near future.		
Y	HS	2	1	GR-FS10 Replace Water Cooled Condensing Units	\$15,000	I M A G E
				Existing Bally Walk-in Cooler/Cooler condensing units (with R-12?) located in the mezzanine are water cooled. The water is circulated around the condenser and discharged directly down the floor drain. Each water cooled condensing unit has the potential to consume over one million (1,000,000) gallons of water (each) per year. Recommend replacing both condensing units and evaporator coils with new energy saving refrigeration systems within the next 1-2 years.		
Y	HS	2	1	GR-FS11 Kitchen Renovation	\$80,000	I M A G E
				We recommend renovation of the entire kitchen/servery within the next 5 years to allow staff greater flexibility with food offerings and food flow. Add an additional \$80,000 for foodservice replacement items related to a kitchen renovation, i.e. walk-in Cooler/Freezer, dishtables, paintleg duct, sinks, worktables, mop sink, hand sink, etc...		



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Gardner Road

In Project	Category	Year	Priority	Theatrical Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-GR-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i>		
Y	HS	1	1	GR-TH1 Room Acoustics The acoustics in this space are acceptable for a cafeteria style space. Significant improvements in acoustics would require a major ceiling tear out, a high NRC ceiling tile and gridwork and additional, specialized acoustic treatments on the walls below 8' - 0" AFF. These lower wall treatments are easily soiled, and, as such, are not typically embraced from a maintenance standpoint.	\$30,000	I M A G E
Y	HS	1	1	GR-TH2 Audio System The existing audio system in this space is old and inadequate. A new audio system is recommended. Lower budget includes basic automated audio system with hearing assistance, amplification, processing and speakers. Upper budget includes an audio console, wireless microphones and related cabling, better speakers, a portable control panel and portable cases.	\$80,000	I M A G E
Y	HS	1	1	GR-TH3 Lighting System The existing lighting system is basically non-existent. Lower budget includes new LED stage and front of house wash fixtures and an architectural control system. Upper budget includes additional wash & ellipsoidal LED lighting fixtures, connector strips, a small lighting console, distribution and a small relay rack.	\$65,000	I M A G E
Y	HS	1	1	GR-TH4 Houselighting System The existing fluorescent houselighting system appears to be adequate; however, upgrades could be made to convert the existing system to a completely LED based system (depending on the type of lamps in the fluorescent fixtures). Budget includes replacing existing fluorescent tubes with LED tubes if the existing tubes are T5 style, but doesn't include any needed wiring changes.	\$8,000	I M A G E
Y	HS	1	1	GR-TH5 Stage Rigging System 1) Most of the stage sets have been suspended by light duty chain not approved for overhead lifting, in questionable ways and with open S hooks, carabiners or open chain links. 2) The trim chains on stage do not have safety bolts. Safety bolts should be added to all stage batten trim chains. This is a subject of discussion in the rigging industry, but properly installed safety bolts are a recommended safety feature. 3) Most of the stage battens appear to have threaded couplings, which can suddenly fail. The battens should all be replaced (included in stage rigging system improvements budget below). 4) It appears that none of the system shackles have been moused so that they cannot come unscrewed. All shackles should be properly moused.	\$3,000	I M A G E

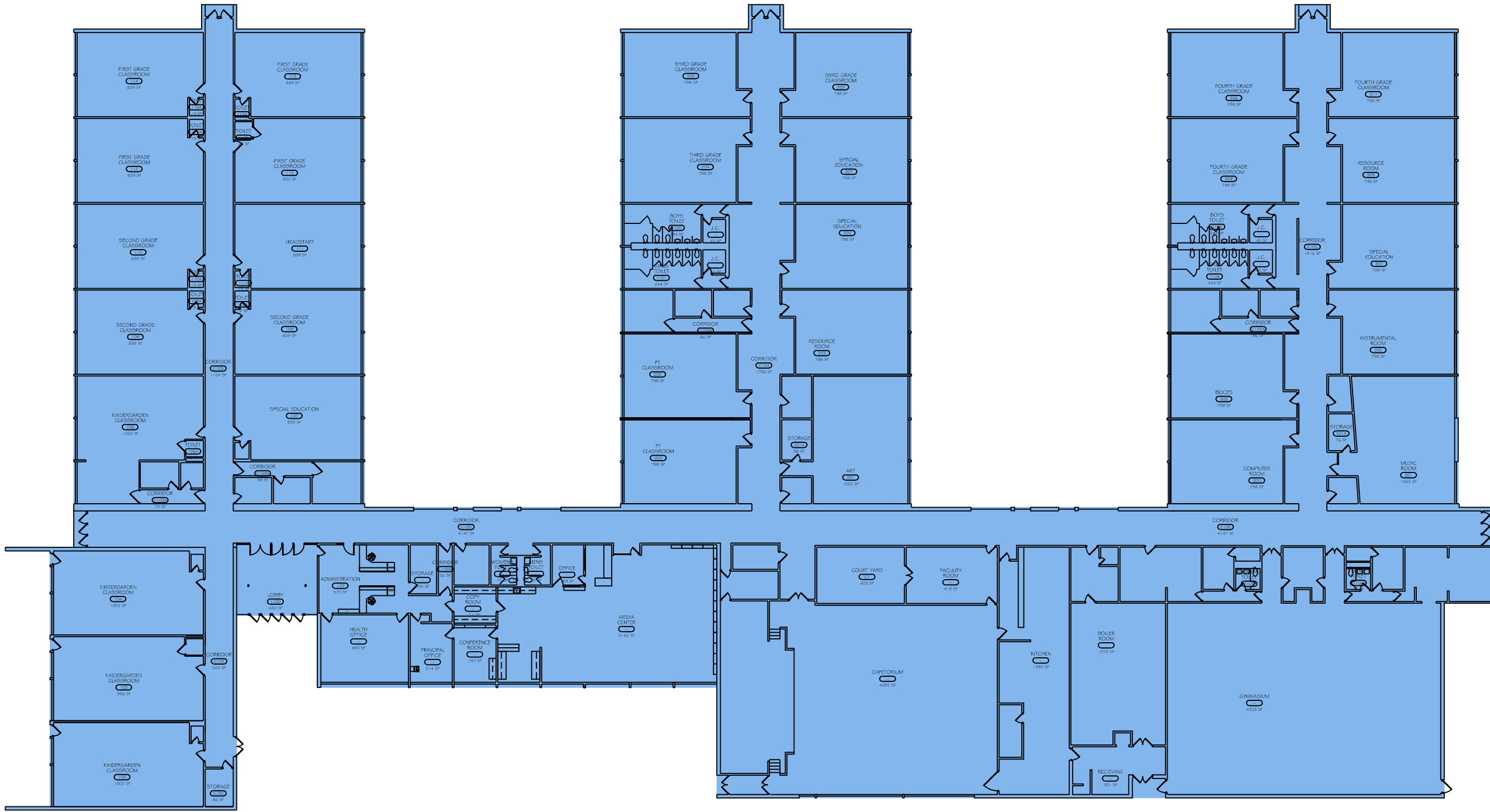
Y	HS	1	1	GR-TH6 Stage Rigging System - Improvements	\$25,000	I M A G E
				The existing stage rigging system has been installed with light duty chain not approved for overhead lifting and in an unsafe manner as well as on battens with threaded couplers. It is recommended that the entire system be replaced.		
y	HS	1	1	GR-TH7 Stage Rigging System - Curtains	\$30,000	I M A G E
				The stage curtains are all IFR (inherently flame retardant) and are circa 2001. These curtains are durable, if not attractive, but are near the end of their useful life. The existing curtain tracks appear to be older, but in fair operating condition. Lower budget includes new curtains, track operating lines and sandbag weighted floor pulleys (reuse existing tracks). Upper budget includes a new curtain draw machine (which is not necessary, but would replace the old existing one) and new curtain tracks.		
Y	HS	1	1	GR-TH8 FOH Cove Lighting System	\$10,000	I M A G E
				A front of house (FOH) rigid lighting system is recommended if this space is utilized for performances. Due to the moderate ceiling height of this room; however, adoption may prove to be difficult and put fixtures too close to the floor and invite cafeteria use damage. This can be explored if desired by the owner. Overhead attachments are unknown at this point and could greatly impact the installation costs.		
Y	HS	1	1	GR-TH9 Video Presentation System	\$34,000	I M A G E
				The existing projector is a low output VGA projector and the existing projection screen is older, damaged and is the wrong format for today's video presentations. It is recommended that the system be upgraded with a new projection screen and permanently mounted projector with a stage input. Budget includes new permanently mounted, medium output HD projector, motorized 16:9 video screen and one stage input location with auto-sensing.		

S.E.D. BUILDING CONDITION SURVEY

KEY PLANS

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GARDNER ROAD ELEMENTARY

FLOOR PLAN HORSEHEADS CENTRAL SCHOOL DISTRICT

SYSTEMS DESCRIPTIONS



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P: 607-358-1000
F: 607-358-1800

Intermediate/Middle School

Site Description

GENERAL BUILDING INFORMATION

Fuel Oil: Non noted at time of inspection.

Potable Water: Potable water is provided by municipal system.

Sanitary: Sanitary sewer conveyance is taken to municipal system.

Electric: Electric is provided by NYSEG

Natural Gas: Natural gas is provided by NYSEG

Stormwater: Stormwater runoff from building and grounds sheet drain to catch basins, lawn areas and roadside ditches.

Cable/Internet: Television and Internet services are provided to the main building by Time Warner Cable.

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

North Parking Lot:

Age- Varies

Expected remaining useful life- 2 years

Rating- Unsatisfactory

Description: Located to the north of the building is the main school parking lot and bus loop in poor condition.

South Loop and Entry Drive:

Age- Varies

Expected remaining useful life- 1 year

Rating- Unsatisfactory

Description: Located to the south of the building is a parking lot, student drop-off and access to the buildings loading docks. The parking lot is in poor condition and student access is unsafe due to layout.

Sidewalk:

Age- Varies

Expected remaining useful life- 5-10 years

Rating- Satisfactory

Description: The school has a concrete sidewalk system that provides access to the school from the bus loop and points on the north, west and south sides of the building.

Handicap Ramp:

Age- Unknown
Expected remaining useful life- 5-10 years
Rating- Satisfactory

Description:

ATHLETIC FIELD DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Soccer Fields:

Age- Unknown
Expected remaining useful life- 10-29 years
Rating- Satisfactory

Description: Located west of the building is two soccer fields that are used by school students.

Playground Equipment:

Age- Varies
Expected remaining useful life- 5-10 years
Rating- Satisfactory

Description: Located to the west of the building is a playground complex that has many different kinds of slides, tunnels, swings and climbing apparatuses. The surface between the equipment is wood chips. At time of inspection swings were noted to be damaged and use zones infringements were noted.



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Intermediate/Middle School

Mechanical Description

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Boilers:

Age-
 Expected remaining useful life-
 Rating-

Description: 6 Aerco Benchmark hot water boilers totaling 12 million Btuh provide hot water for the heating system. Heated water is pumped throughout the building to terminal units in 5 zones. Control of zones, pumps, and terminal units is pneumatic. Heated water and chilled water share the same hydronic piping depending on season.

Chiller:

Age- 4 Years
 Expected remaining useful life- 15 Years
 Rating- Satisfactory

Description: 1 Trane compressor chiller in the basement storage space provides chilled hydronic water for the cooling of the building. Chilled water is pumped through hydronic pipes shared by the hot water system.

Domestic Water Systems:

Age- 47 Years
 Expected remaining useful life- 5 Years
 Rating- Satisfactory

Description: The water supply is municipal.

Domestic Hot Water:

Age-
 Expected remaining useful life-
 Rating-

Description: 2 hot water storage tanks exchange heat for domestic supply from hot water supplied by main system boilers. This heated water is pumped throughout the building to supply the fixtures.

Sanitary and Storm Systems:

Age- 47 Years
Expected remaining useful life- 5 Years
Rating- Satisfactory

Description: The sanitary waste from the school empties to municipal systems. Recently re-painted in the basement storage area.

Classroom Ventilation/Heat:

Age- Rooms associated with original construction: 47 years
Rooms associated with new addition: 14 years
Expected remaining useful life- 5 Years, 15 Years
Rating- Unsatisfactory, Satisfactory

Description: The classrooms all have unit ventilators installed original to the addition where they are located; 1968 in original structure, 2001 in Field house addition. Relief air from 1968 classrooms is ducted or relieved through masonry block directly into the corridor plenum. Classroom relief air in the recent addition is ducted directly to a common exhaust fan.

Kitchen:

Age- 47 Years
Expected remaining useful life-
Rating-

Description: Supply air to the kitchen area travels from the cafeteria through transfer ducts and doorways. Air is exhausted through exhaust grilles over the main serving area, dishwashing hood, and two oven hoods. Heat is provided through unit heaters and cabinet heaters.

Gymnasium:

Age- Ducting: 47 Years
Air Handling Units: ???
Expected remaining useful life-
Rating-

Description: 5 roof mounted air handling units provide heating, cooling, and ventilation to the Gymnasium.

Cafeteria:

Age- 47 Years
Expected remaining useful life- 5 Years
Rating- Satisfactory

Description: Both cafeterias are served by 2 air handling units mounted in the ceiling of the attached stage. These units provide heating, cooling, and ventilation; supply air is ducted, return air is drawn up into the bottom of the unit, outside air comes through a storm louver. 1 roof mounted exhaust louver in each space provides air relief.

Field house Addition Changing Area, Vocal Music Suite:

Age- 14 Years
Expected remaining useful life- 15 Years
Rating- Satisfactory

Description: Ventilation for the space is provided by a roof top air handling unit, supply and return is ducted. Heating and cooling is provided by duct-mounted hydronic terminal units.

Field house Gymnasium Addition:

Age- 14 Years
Expected remaining useful life- 15 Years
Rating- Satisfactory

Description: 2 air handling units in an adjacent athletic storage space provide heating, cooling, and ventilation to the main field house space; supply and return are ducted to the units. Relief air is exhausted directly outside by 2 wall mounted exhaust fans.

Indoor Golf Instruction:

Age- 14 Years
Expected remaining useful life- 15 Years
Rating- Satisfactory

Description: 2 cabinet heaters provide heating and cooling to the space. Ventilation air is supplied from the AHU serving the main field house.

Computer Lab:

Age- ???
Expected remaining useful life-
Rating-

Description: In addition to the common unit ventilator and relief louver, the computer lab is also served by a roof top air handling unit for additional cooling and ventilation. Supply and return is ducted to and from the unit.

Ceiling UVs:

Age- 47 Years
Expected remaining useful life- 5 Years
Rating- Satisfactory

Description: Various faculty and classroom spaces feature ducted heat, cooling, and ventilation from ceiling mounted unit ventilators.

Library:

Age- 47 Years
Expected remaining useful life- 5 Years
Rating- Satisfactory

Description: 1 roof mounted air handling unit provides heating, cooling, and ventilation to the library and associated offices. Supply air is ducted to light troffer diffusers and return air is drawn from the plenum into the unit through remaining open troffers. Relief air exits through two roof mounted gravity vents.

LGI:

47

Age-
Expected remaining useful life- 5 Years
Rating- Satisfactory

Description: 1 roof mounted air handling unit provides heating, cooling, and ventilation to the library and associated offices. Supply air is ducted to light troffer diffusers and return air is drawn from the plenum into the unit through remaining open troffers. Relief air exits through 1 roof mounted gravity vent.

Technology:

Age- 47 Years
Expected remaining useful life- 5 Years
Rating- Unsatisfactory

Description: 4 ceiling mounted unit ventilators provide heated, cooled, and ventilated air to the technology shop and classroom suite. Relief air is exhausted into the corridor plenum. A hood in the finishing area exhausts air to the roof. Additional unconditioned outside air is presented to the space from a louver and pneumatic damper in the adjacent storage room. Dust collection is taken from the storage space and ducted through a dust collector to the roof.

Locker Rooms:

Age- Ducting: 47 Years
AHU: ???
Expected remaining useful life-
Rating- Satisfactory

Description: 1 roof top mounted air handling unit each provides heating, cooling, and ventilation for the boy's and girl's locker rooms and associated offices. Exhaust is ducted directly to a common roof top exhaust fan.



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Horseheads, NY 14845-1019
P: 607-358-1000
F: 607-358-1800

Intermediate/Middle School

Electrical Description

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Emergency / Stand-by Power System:

Age- 7 years
Expected remaining useful life- 23 years
Rating- Satisfactory

Description: Building is backed-up via a Cummins diesel fuel back up generator. There are two separate Automatic Transfer Switches serving both Life Safety and Standby power loads, adhering to NFPA Level 1 design standards.

Exit Egress Path Signage

Age- 12 years
Expected remaining useful life- 3 years
Rating- Unsatisfactory

Description: Exit signage is comprised of both LED lit signage and unlit graphic adhesive stickers. The majority of the Exit fixtures are either unlit or very dim and do not clearly identify path of egress.

Interior Emergency Egress Lighting

Age- 7 to 12 years
Expected remaining useful life- 3 to 13 years
Rating- Satisfactory

Description: Places of assembly include battery backed-up wall packs, limited corridor fluorescent fixtures are connected to Life Safety power circuits panels providing emergency lighting along path of egress within building corridors.

Exterior Emergency Egress Lighting

Age- 1 year
Expected remaining useful life- 19 years
Rating- Unsatisfactory

Description: Exterior emergency lighting is limited to primary secured entrances constructed 2014-2015 school year. The remainder of exterior doors and courtyards lack emergency lighting.

General Lighting

Age- 7 to 26 years
Expected remaining useful life- 13 to 3 years
Rating- Satisfactory

Description: The majority of the building's lighting consists of T8 fluorescent lamped fixtures containing electronic ballasts.

Light Switching

Age- 47 years
Expected remaining useful life- 2 years
Rating- Unsatisfactory

Description: The majority of student occupied space have one-level of switching control of lights. Portions of the building are controlled via low voltage switching. A limited number of spaces include automatic off control of fixtures.

Building Mount Exterior Lighting

Age- 1 to 20 years
Expected remaining useful life- 19 to 1 years
Rating- Satisfactory

Description: The exterior building mount lighting consists of a mix of HID, compact fluorescent, incandescent, and LED fixtures controlled via photo-cells and / or time clocks.

Fire Alarm Systems:

Age- 7 to 12 years
Expected remaining useful life- 13 to 9 years
Rating- Satisfactory

Description: The Fire Alarm system is a Siemens Cerberus fully addressable system. Detection and notification devices appear to be adequate; although additional devices are required in various locations to comply with current life safety codes. The system also provides the code required shut down of mechanical equipment upon alarm activation. Kitchen hood's ANSUL systems are not interconnected to building's fire alarm control panel for alarm sequence initiation.

Electrical Service Entrance:

Age- 47 years
Expected remaining useful life- 3 years
Rating- Satisfactory

Description: 277/480V 2000A, 3 phase, 4 wire, feed from main transformer in utility yard outside Mech/Storage loading dock via 2000A Westinghouse bus duct system. The bus duct feeds MDP-1.

Electrical Power Distribution Panels:

Age- 7 to 47 years
Expected remaining useful life- 23 to 1 years
Rating- Satisfactory

Description: The electrical distribution panels vary from new up to date panels to some older original vintage construction panels. The original construction Westinghouse panels have exceeded their expected useful life. The building's power distribution equipment does not comply with current NEC 70E code requirements for testing and labeling of Arc Flash ratings.

Wiring Devices

Age- 7 to 47 years
Expected remaining useful life- 23 to 1 years
Rating- Satisfactory

Description: The majority of the electrical wiring devices in the building date to the original construction and have exceeded their expected useful life. Several spaces in the building have inadequate receptacle coverage. Several classrooms have ceiling mounted projectors that connect to a receptacle concealed above the ceiling which is a code violation of current NEC requirements.

Kiln Disconnect

Age- 30 years
Expected remaining useful life- 1 year
Rating- Unsatisfactory

Description: Art room electric kiln power connections do not have disconnecting means ahead of receptacle.

Motor Starters:

Age- 25 years
Expected remaining useful life- 5 years
Rating- Satisfactory

Description: Large HP 3 phase motors throughout the facility are equipped with inefficient magnetic motor starters.



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Horseheads, NY 14845-1019
P: 607-358-1000
F: 607-358-1800

Intermediate/Middle School

Technology Description

Data Network Infrastructure:

Age- 10-15 Years

Expected remaining useful life- 1-3 Years

Rating- Unsatisfactory

Description: The Middle/Intermediate School is connected to the district's network via single mode fiber through Southern Tier Network and the current electronics support a 1 Gbps connection over this link. There are six data room/cabinet locations in the building that connect to each other over OM1 multi-mode fiber and distribute data to classrooms using a mix of Cat5 & 5e twisted pair cabling. All data locations are shared spaces and utilize wall mounted racks or 4-post racks. There is no air conditioning or UPS in any of the spaces. The network switches are a mix of 10/100 & 10/100/1000 Mbps and mostly older than 5 years.

Internet Services:

Age- NA

Expected remaining useful life- NA

Rating- Satisfactory

Description: Internet service is received through GST BOCES via the Southern Tier Network leased fiber.

Voice Systems:

Age- 10-15 Years

Expected remaining useful life- 1-3 Years

Rating- Unsatisfactory

Description: The existing phone system is a digital PBX solution that is no longer supported. It has voice mail and auto attendant features however lack of support makes these features vulnerable to downtime in the event of a hardware failure. The system is connected to the district wide system allowing dialing and call routing within district. Office locations have digital hand sets and all classroom phones are analog sets using Cat3.

Wireless Technologies:

Age- 5-7 Years

Expected remaining useful life- 3-5 Years

Rating- Unsatisfactory

Description: Currently there is a Cisco wireless-G & N solution which consists of wireless access points that connect to a Cisco wireless controller. Most access points are deployed with external antennas and mounted in some classrooms. Not all instructional areas have reliable wireless coverage. Most of the access points observed were 802.11g.

Paging Systems:

Age-

Expected remaining useful life-

Rating-

Description: The current paging system consists of a small Dukane interface in the main office with remote amplification. The speakers throughout the facility are connected via distributed cabling at cross connect locations.

Clock Systems:

Age- Undetermined

Expected remaining useful life- 7-10 Years

Rating- Satisfactory

Description: A Visiplex clock system serves all instructional, administrative and assembly spaces. The system is controlled by a master clock controller to synchronize the time.

Video Systems:

Age- 10+ Years

Expected remaining useful life- 1-3 Years

Rating- Unsatisfactory

Description: There is cable TV coaxial cable throughout the building. The backbone is distributed from the building entry point via Blonder Tongue amplifiers. There are TV connections and CRT Televisions in most classrooms. The district reports quality problems that are most likely due to signal strength and balance throughout the distribution system.

Classroom Technologies:

Age- Various Ages

Expected remaining useful life- 5 Years

Rating- Satisfactory

Description: Each room is equipped with a smart board with integrated audio.
There is also a CRT monitor that utilizes the district's cable TV service.

Computer Labs:

Age- NA

Expected remaining useful life- 5-7 Years

Rating- Satisfactory

Description: Canter Street has computer labs available to the students along with several classroom workstations. The computer lab is connected to the LAN using the network cabinet within the room that distributes copper cabling to all the stations. There are approximately 32 current workstations within the lab.

Security Access Control System:

Age- 5-7 Years

Expected remaining useful life- 7-10 Years

Rating- Satisfactory

Description: There is a secured entrance is under construction that will allow visitors to enter at the main office only, forcing them to sign in with personnel. It utilizes intercoms at the exterior and controlled doors in the vestibule to control access. There is a panic button in the office that will lock exterior entrances and release fire doors in the building. Most heavily used entrances have access control however door contacts are not present at all exterior door locations.

Video Surveillance:

Age- Various Ages

Expected remaining useful life- 1-3 Years

Rating- Unsatisfactory

Description: There is currently an analog Pelco system installed with coverage at all entrances and select corridors however the district has begun to add megapixel IP cameras to the network and installing video recording server to replace the existing DVR that record the analog cameras. The IP camera upgrades were mostly based around the secured entrance areas. The district purchased some cameras and are rolling them out in phases.



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Theatrical Equipment Description

General Building Information

Room Acoustics

Age- Unable to verify
Expected remaining useful life- Unable to determine
Rating- Average

Description: The room's frequency response and reverberation times are acceptable; although, there is some low frequency buildup.

Audio System

Age- Unable to verify
Expected remaining useful life- At the end of its useful life
Rating- Poor

Description: Wall mixer on stage is inadequate, outdated and old.

Lighting System

Age- N/A
Expected remaining useful life- N/A
Rating- N/A

Description: The only "lighting system" is two sets of track lighting, one on stage and one at FOH. Both are inadequate.

Houselighting System

Age- Unable to verify

Expected remaining useful life- Unable to determine
Rating- Acceptable

Description: We recommend upgrades to LED tubes for all of the existing fluorescent lights for improved energy savings and overall lamp life expectancy.

Stage Rigging System

Age- 15+ Years
Expected remaining useful life- Near the end of its useful life
Rating- Poor

Description: The stage rigging system has many deficiencies and safety concerns. It should all be replaced.

Stage Rigging System - Curtains

Age- 6+ Years
Expected remaining useful life- Approx. <14 Years
Rating- Good Overall Performance

Description:

Video Presentation System

Age- Unable to verify
Expected remaining useful life- Unable to determine
Rating- Fair






Description: The existing screen is older, the format is outdated and a projector could not be located.

RECOMMENDATIONS



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In Project	Category	Year	Priority	Site Recommendations	Estimate	Thumbnails (if any)
	GSR			<u>I-MS-GENERAL SITE RENOVATIONS</u> GENERAL SITE RENOVATIONS		
Y	GSR	1	1	MS-L1 Maintenance Entrance The asphalt pavement at the maintenance area is in poor condition and should be replaced.	\$73,000	
Y	GSR	1	2	MS-L2 Pedestrian Access Replace asphalt walks with concrete.	\$10,000	
Y	GSR	1	3	MS-L3 HC Signage Add HC signage and access aisle for compliance	\$5,500	
y	GSR	1	3	MS-L4 South Parking Lot and Student Drop off South asphalt parking lot is in poor condition and should be replaced to full depth. Student drop off area is too small and should be expanded for safety and to encourage traffic flow. Entrance drive improvements planned for summer of 2015.	\$550,000	
Y	GSR	1	2	MS-L5 Loading Docks Loading docks at the south parking lot are used daily and are in good condition. Design safe access to loading docks separate from student drop off loop and parking.	\$200,000	

Y GSR 1 1 **MS-L6 Student Drop Off** **\$150,000**
As noted in MS-L4, the depth of the student drop off area is too small and should be redesigned to allow safe drop-off and pick-up of students. Traffic flow is decreased due to lack of safe staging for students. Redesign walks. Replace ADA access Ramp. See MS-L19 if student drop off work is not included in new work. total budget if this item is chosen should be \$185,000



Y GSR 1 1 **MS-L7 North Parking Lots** **\$925,000**
The north parking lot asphalt pavements are in poor condition and should be replaced to full depth.



Y GSR 1 3 **MS-L8 Lighting** **\$50,000**
The parking lot lighting is out dated and should be replaced with new LED fixtures.



Y GSR 1 2 **MS-L9 Catch Basins** **\$10,000**
Catch basins throughout site should be reset to allow for drainage to basins. Add concrete aprons to basins.



Y GSR 1 1 **MS-L10 North West Parking Lot** **\$0**
The north parking lot asphalt pavements are in poor condition and should be replaced to full depth. Price for this work is included in MS-L7



Y GSR 1 3 **MS-L11 Playgrounds** **\$300,000**
Playgrounds and hard play area appear to be in good condition and well maintained. Playgrounds should be inspected for compliance with current CPSC guidelines. Price is to replace playground equipment



Y GSR 1 3 **MS-L12 Playground Swings** **\$15,500**
Playground swings should be replaced for compliance



Y GSR 1 3 **MS-L13 Swing Use Zone** **\$1,500**
Swing use zone appears to be too close to adjacent walk. Remove asphalt for compliance



Y GSR 1 3 **MS-L14 Playground Signage**
 Playground sign is located in use zone for swings. Relocate sign for compliance

\$500



Y GSR 1 3 **MS-L15 Bus Loop**
 Asphalt pavement in bus loop is in poor condition and should be replaced to full depth. Guard rail is in good condition. Consider replacing guard rail with heavy duty fencing to improve aesthetics.

\$500,000



Y GSR 1 2 **MS-L16 Concrete Walks**
 Generally the concrete walks are in good condition. At time of inspection some walks were noticed to be cracked. Price includes panel replacement for a percentage of concrete walks throughout the site

\$35,000



GAF **II-MS-GENERAL ATHLETIC FACILITY RENOVATIONS**
RECOMMENDED RENOVATIONS TO UPDATE THE SITE TO MEET CURRENT STANDARDS AND NEEDS.

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Y GAF 1 3 **MS-L17 Walking Trail**
 Walking trail at time of inspection was not observable due to snow cover. Anticipate need for additional stone dust to be added to walks. Price is for percentage of material need to touch up trail

\$25,000

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Y GAF 2 1 **MS-L18 Expand Athletic Fields to South**
 Site has additional land to the south that could be improved to accommodate additional athletic fields. Prepare for future improvements by regrading site.

\$200,000

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Y GAF 1 1 **MS-L19 Replace ADA Ramp**
 Replace deteriorated concrete ramp, walls and rails. See MS-L6, add \$35,000 if chosen to go with new student drop-off






\$35,000

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In Project	Category	Year	Priority	Architectural Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-MS-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i>		
Y	HS	1	3	MS-A1 Replace Doors that are Not Fire Rated and/or Handicapped Accessible Many corridor doors are aged and/or are not fire rated in accordance with current code requirements. Additionally, many of these doors lack operational door closers, and have old lock sets and door knobs that are not handicap accessible, and/or have non-impact resistant glass. These doors should be replaced with fire rated doors and frames as required by current code. Quantity: 142 single rated doors and 42 double rated doors	\$644,000	
Y	HS	1	3	MS-A2 Replace Wire Glass in Door and Window Assembly A recent project provided door and window assemblies throughout the building with wire glass at fire rated locations. Although the glass meets the fire rating requirement, it does not meet the impact safety requirements outlined in the current NYSED code. Replacing the glass with fire rated glass should be considered. Quantity: 1 Window Assembly, 13 double doors and 9 single doors	\$9,000	
Y	HS	1	2	MS-A3 Fire Rated Stair Partitions Provide fire rated stair partitions as required by code. Stair at main entry.	\$30,000	
Y	HS	1	3	MS-A4 Replace Non-Impact Resistant Glass There are many display cases throughout the building that contain glass that is not meeting the current code. There are also some window assemblies (non-fire rated) that do not have impact safety glass installed. Replacing the glass with impact safety glass should be considered. Quantity: 25 display cases and 20 doors and window assemblies	\$40,000	
Y	HS	1	3	MS-A5 Boiler Room Vestibule The current door leading from the corridor into the boiler room is not code compliant. Construct a fire rated vestibule and move and modify existing stair system as required by current building code.	\$10,000	

Y HS 1 3 **MS-A6 Investigate U-Shaped Roof Joists** **\$7,500**
 There are a number of U-shaped steel joists present in the building. The construction of the top chord of these joists allow for the collection of moisture and possible deterioration of the joists. No significant deterioration was noted; however the deterioration is not always visible from below. A more in-depth investigation of the joists is recommended to determine if any deterioration is present.



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Y HS 1 2 **MS-A7 Library Casework** **\$200,000**
 Provide new library casework. Quantity: 300 LF and circulation desk




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Y HS 1 2 **MS-A8 Smoke Stop Curtain at Elevator** **\$20,000**
 Provide a smoke stop curtain at the existing elevator first and second story.

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Y HS 1 2 **MS-A9 Concession Stand Coiling Door** **\$4,000**
 Provide a fire rated coiling door at the concession stand as required by code.




Y HS 1 3 **MS-A10 Concrete Slab Investigation** **\$6,000**
 The structural concrete slab over the lower level storage rooms and lower level loading dock is showing signs of deterioration. This includes water infiltration, crackings, spalling, and corrosion of the rebar. This slab should be investigated to verify the structural integrity and any required repairs.



ADA **II-MS-PHYSICALLY DISABLED ACCESS (ADA)**
AMERICANS WITH DISABILITIES ACT (ADA) COUNCIL OF AMERICAN BUILDING OFFICIALS / AMERICAN NATIONAL STANDARDS INSTITUTE (CBO / ANSI)

Y ADA 1 2 **MS-A11 Update Toilet Room to be Handicap Accessible** **\$510,000**
 Many toilet rooms are not handicap accessible due to the lack of clearances, grab bars, appropriate toilet and sink fixtures and/or lever style faucets. Some of these toilet rooms also do not have compliant ADA signage. Updating this toilet room in accordance with current code should be considered. Quantity: 34 toilet rooms



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Y ADA 1 2 **MS-A12 Update Gang Toilet Rooms** **\$120,000**
 There are several gang toilet rooms that should be completely renovated.
 Quantity: 2,500 SF



Y ADA 2 1 **MS-A13 Update Locker Rooms** **\$360,000**
 The locker rooms should be completely renovated. Quantity: 3,600 SF



Y ADA 1 2 **MS-A14 Update Drinking Fountains to be Handicap Accessible** **\$22,000**
 Several non-accessible drinking fountains exist throughout the building. These drinking fountains should be updated to satisfy current code. Quantity: 11 drinking fountains



Y ADA 1 3 **MS-A15 Update Handrails to be Handicap Accessible** **\$10,000**
 There are several locations throughout the building where the existing handrails should be modified to be handicap accessible. Quantity: 6 locations



Y ADA 1 3 **MS-A16 Ramp to Technology Rooms** **\$20,000**
 The technology rooms are not handicap accessible due to an elevation change. Remove a portion of the existing stair and provide a compliant ramp to allow access to technology rooms.

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GBI **III-MS-GENERAL BUILDING RENOVATIONS-INTERIOR**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBI 1 2 **MS-A17 Replace Casework** **\$639,000**
 The existing storage and sink systems in classrooms are an assortment of aged units that are no longer functional or aesthetically pleasing or ADA compliant. This casework should be considered for replacement. Quantity: 1420 LF



Y GBI 1 3 **MS-A18 Gym** **\$38,500**
 Existing acoustical wall treatment above folding partition tracks is worn and should be considered for replacement (Quantity: 2,500 SF). Additional wall pads are suggested (Quantity: 20 LF).



Y GBI 2 1 **MS-A19 Cafeteria** **\$1,055,900**

Additional space is required to reduce quantity of lunch periods. An addition in the existing courtyard is recommended. Addition Quantity: 1,460 SF Finishes in all spaces should be considered for replacement as well. Quantity: 11,060 SF All acoustical wall treatments in both Cafeteriums are worn and outdated and should be considered for replacement. Quantity: 3,000 SF

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Y GBI 1 3 **MS-A20 Replace Acoustic Ceiling Tile** **\$812,000**

Many spaces have 12"x12" acoustic ceiling tile that is worn and should be considered for replacement. Quantity: 124,875 SF



Y GBI 2 1 **MS-A21 Replace Lockers** **\$230,000**

The existing lockers throughout the school are worn and should be considered for replacement. Quantity: 720 LF



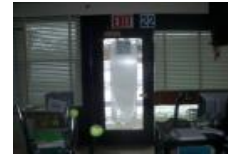
Y GBI 1 2 **MS-A22 Replace Aged Blackboards / Tackboards** **\$168,000**

Several aged blackboard / tackboard units exist throughout the building. These units should be considered to be replaced with new whiteboard (dry erase) / tack board units. Quantity: 2,400 LF whiteboards / tackboards



Y GBI 1 2 **MS-A23 Replace Aged Window Treatments** **\$100,000**

Existing window treatments throughout the building should be considered for replacement. Quantity: 2,780 LF



Y GBI 1 3 **MS-A24 Cracked Terrazzo** **\$2,400**

There are several locations in the building where the existing terrazzo flooring has cracked and it is recommended to patch these locations. Quantity: 30LF

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Y GBI 1 3 **MS-A25 Replace Aged Unit Ventilator Shelving** **\$640,000**

The unit ventilator shelving is aged and should be considered for replacement. Quantity: 1,600 LF

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Y GBI 2 1 **MS-A26 Testing Space** **\$500,000**

A dedicated testing space is required. A 2,500 SF addition is suggested.

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Y GBI 2 1 **MS-A27 Gathering Space** **\$500,000**
 A dedicated gathering space is required. A 2,500 SF addition is suggested.

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Y GBI 2 1 **MS-A28 Library** **\$578,500**
 The existing library space is outdated and should be renovated and provide individual smaller spaces for individual instruction. Approx. Quantity: 8,900 SF

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Y GBI 2 1 **MS-A29 Field House** **\$425,000**
 The existing scoreboard is outdated and should be replaced. The rubber floor finish is worn and should be replaced. Approx. Quantity: 20,600 SF

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Y GBI 1 3 **MS-A30 Main Office and Nurse Suite** **\$55,250**
 The existing main office and nurses space should be reconfigured and renovated. Approx. quantity: 850 SF

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Y GBI 1 3 **MS-A31 Metal Deck Corrosion** **\$0**
 The existing roof deck outside the 4-5 Cafetorium is rusted. This corrosion is not a structural concern at this time but should be monitored to make sure it is not progressing.



Y GBI 1 3 **MS-A32 Moisture Penetration into Crawl Space** **\$2,000**
 There is moisture penetrating the concrete slab into the crawl space under the entrance to the Kitchen from the loading dock area. This moisture can lead to multiple issues if allowed to continue. The slab should be sealed to prevent future moisture from entering the crawl space.



Y GBI 2 1 **MS-A33 Pool Addition** **\$9,500,000**
 Provide new pool and related locker rooms. Pool 15,000 SF, 6,100 SF.

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Y GBI 2 1 **MS-A34 Auditorium Addition** **\$8,500,000**
 Provide auditorium addition, approx. 11,500 SF. Existing offices will be displaced and should be relocated, approx. 1,700 SF.

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GBE **IV-MS-GENERAL BUILDING RENOVATIONS-EXTERIOR**
 RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBE 1 2 **MS-A35 Roof Replacement** **\$500,940**
 Portions of the roof have expired warranties and should be considered for replacement. Roof drains should be added to help prevent ponding. Current fascia is pulling away from the building and will be replaced under this cost. Quantity: 27,830 SF.

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Y GBE 1 2 **MS-A36 Provide Snow Guards on Field House Addition** **\$3,000**
 Where snow does not fall onto a roof or an unused area, snow guards should be provided to keep snow and ice from causing safety hazards below.

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Y GBE 1 3 **MS-A37 Repoint Chimney Mortar Joints** **\$1,000**
 Some vertical cracking is shown in the chimney masonry. Rake and re-point mortar joints.



Y GBE 1 3 **MS-A38 Golf Inst. Turf** **\$40,000**
 The existing turf flooring in the outside Golf Inst. Area is worn and should be considered for replacement. Quantity: 2,000 SF



Y GBE 1 2 **MS-A39 Replace Deteriorated Exterior Doors** **\$18,000**
 Several exterior doors are deteriorated and should be replaced. Quantity: 2 double doors and 6 single doors

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Y GBE 1 2 **MS-A40 Provide Ladders to Higher Roofs** **\$3,000**
 There are three roofs that have no access. Ladders should be added to that roofs are accessible.



Y GBE 1 3 **MS-A41 Provide Cage/Guardrail to Existing Ladder/Hatch** **\$1,500**
 The ladder located near the roof hatch needs a safety cage due to the high of the ladder. The roof hatch also needs a safety guardrail due to the height of the ladder.



Y GBE 1 3 **MS-A42 Drain and Fix Entrance Canopy** **\$1,200**

There is major ponding on the entrance canopy. Drains empty down columns at ground level but seem to be clogged. Clear out current drains and if ponding persists, drains will need to be added.

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Y GBE 1 3 **MS-A43 Caulk Top of Metal Roof Finishing** **\$8,000**

The top of the four higher roofs should be caulked to seal it off. These areas should be sealed off to prevent further insect infestation.



Y GBE 1 3 **MS-A44 Repaint Corroded Canopy Supports** **\$20,000**

The canopy supports at the entrance of the building are corroded and should be cleaned and painted with at least two coats of paint.



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Y GBE 1 3 **MS-A45 Replace Flag Pole** **\$5,000**

The exterior flag pole is corroded and should be replaced.



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Y GBE 1 3 **MS-A46 Paint Exterior Handrails** **\$2,000**

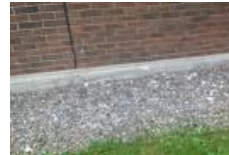
The handrails outside of Classroom 415 needs extensions so that it is ADA compliant. In addition, the exterior curb is deteriorated and needs replacement.



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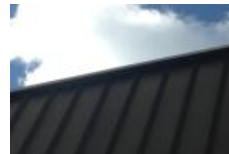
Y GBE 1 3 **MS-A47 Spalling Concrete at Exterior Slab** **\$800**

Most of the exterior slab is beginning to spall. Loose concrete should be removed and surface repairs with a concrete patch such as Sika Repair 223 (for vertical or horizontal surfaces) should be used to prevent further deterioration.



Y GBE 1 3 **MS-A48 Caulk Top of the Metal Panel Siding System** **\$8,000**

The currene metal panel wall system is in good shape but there are many bug investations in the top portion. This area should be caulked or closed off on all areas of the building.



Y GBE 1 3 **MS-A49 Caulk Joints** **\$3,000**

There are severl different types of joints that need to be recaulked. This includes caulking the gutters to prevent leaking, caulk joints on entrance pads and slabs, and recaulking door and door frame joints. All of these areas should be recaulked around the entire building.

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Y GBE 1 3

MS-A50 Recaulk Control Joints

Many control and expansion joints have caulk that is damaged or has reached the end of its useful life. Rake and replace these joints.

\$1,200



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Y GBE 1 3

MS-A51 Vertical Cracking

On the wall outside of the main office and other offices, there is a good amount of vertical cracking. Repoint masonry and mortar joints. In addition, install an aluminum cap on top of the large entrance wall to prevent water from entering the masonry wall.

\$2,000



Y GBE 1 3

MS-A52 Install Canopy

Install a canopy over the entrance ramp on the side of the building to prevent water damage. In addition to adding a canopy, install new brick where the wall has been damaged by water for the walkway above.

\$15,000



Y GBE 1 3

MS-A53 Repair Corners

The corner by Classroom 223 and the corners of the caged mechanical units have damaged concrete corners. The corner should be cleaned and then patched.

\$1,200



Y GBE 1 3

MS-A54 Repair Loading Dock

The current loading dock requires several repairs. All corroded steel should be covered with at least two coats of paint. All hand rails have reached the end of their useful life and should be replaced with new rails that are ADA compliant. The concrete ceiling should also receive a coating to protect it from weathering. The other loading dock by the kitchen a new dock leveler due to corrosion.

\$20,000



Y GBE 1 3

MS-A55 Replace Concrete Slab

The exit next to Kitchen Storage and Offices has a damaged concrete pad as well as a slab next to offices for the Gym. Both of these slabs should be removed and replaced with new concrete slabs due to cracking and deterioration.

\$2,000



Y GBE 1 3

MS-A56 Repair Exterior Metal Wall System

The Library and Kitchen exits are in need of several repair including at least two coats of paint to all structure and handrails.



\$5,000

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 Horseheads, NY 14845-1019
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 F: 607-358-1800

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In Project	Category	Year	Priority	Mechanical Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-MS-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i>		
Y	HS	1	2	MS-M1 Inadequate or Non-Existent Ventilation in Occupied Spaces A number of rooms currently feature no ventilation in the form of fresh air supply and, as they are occupied spaces, it is required. Provide fresh make up air at a rate in accordance with code and offer relief for exhausting the space. Effected Areas: Seperate team room in Boy's Locker Room, Coache's Office adjacent to Corridor 006, Practice Rooms and Office attached to Room 227, Ktichen Office, Various spaces in 3 Office Suites (see MS-M2).	\$38,000	I M A G E
Y	HS	1	2	MS-M2 Inadequate Relief Air Path and Ventilation in Office Suites Apart from air supply in the middle school nurses office, the unit ventilators installed in the office spaces of the main office suites offer the only supply of fresh air for ventilation. Conditioned air then moves to other spaces within the office suite through transfer ducts or door louvers where it is then relieved or exhausted. This provides inadequate ventilation and control . This is a larger issue in spaces which are used as copy rooms. Install a dedicated air distribution system to provide supply and return air to the spaces. Effected Areas: Middle School office suite, Intermediate School office suite, basement faculty spaces opposite From 100.	\$60,000	I M A G E
Y	HS	1	3	MS-M3 Ventilation Hood for Pottery Kiln The existing pottery kiln in use in the art room does not feature adequate ventilation as the kiln exhaust hood is undersized. An appropriately sized exhaust hood should be installed to service this kiln in accordance with code. Room 116.	\$10,000	 I M A G E
Y	HS	1	3	MS-M4 Dust Collection System in Technology Room One vent hood exhausts air and fumes above the finishing area, however the exhaust path featuring a dedicated dust collection unit draws air solely from the storage closet in-between Rooms 125 and 127A. End-point dust management at individual shop tools is handled by two bagged dust collection unit. Outside and unconditioned air enters Rooms 125, 127A, and the associated storage closet through a pneumatically controlled outside air louver. There is also another unducted louver for relief and/or supply air in the storage area with a failed make-shift insulation seal. Proper control of temperature, and furthermore ventilation air and dust/debris management is difficult to control and inefficient. The potential for presenting unconditioned outside air to the space is substantial. A new system for dust collection is proposed. This system should handle all woodworking areas as well as direct dust management on appropriate machines. The system would also be re-circulated back into the space, eliminating the need for make-up air.	\$90,000	 M A G E

Y HS 1 3 **MS-M5 Boys Training Room Not Ventilated** **\$7,500**

The boys training room, a separate space within the boys lockerroom currently has no supply air or proper ventilation. Supply and return air should be ducted, possibly from the existing locker room air distribution system, to properly ventilate this occupied space.

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Y HS 1 3 **MS-M6 Elevator Mechanical Room Ventilation** **\$7,700**

A strong petroleum smell is present in the common corridor in the immediate vicinity of the elevator mechanical rooms. This chemical fume smell is of course stronger in the mechanical room itself, and is a result of the space being under ventilated. Ventilation rate for this space should be increased to properly exhaust all fumes.



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Y HS 1 2 **MS-M7 Improve Kitchen Ventilation and Provide MUA Hood** **\$50,000**

There is currently not enough supply air for ventilation and comfort levels in the kitchen. The oven hoods should be replaced with new units featuring dedicated make up air supply serviced by a roof top unit. Furthermore, conditioned supply air should be ducted to the space to improve temperature control and comfort level.

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GBI **II-MS-GENERAL BUILDING RENOVATIONS**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBI 1 3 **MS-M8 Drain Piping in Boiler Room floor drain** **\$5,000**

A current overflow valve in the domestic water piping does not have a proper path to a nearby floor drain. Water gathered on the floor can cause corrosion in the slab and lead to premature failure. A new floor drain should be installed to better serve this plumbing fixture.



Y GBI 1 m **MS-M9 Condensate Corrosion in Boiler Breech** **\$5,000**

The existing stainless boiler breech piping is exhibiting heavy where it enters the original chimney as a result of corrosive condensate. Corrosion due to condensate is compromising the integrity of not only the piping but the chimney wall and boiler floor as well. This portion of flue piping requires replacement, and an appropriate system provision to effectively neutralize the corrosive condensate is highly recommended.



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Y GBI 1 2 **MS-M10 Upgrade to DDC Controls and Digital Equipment** **\$250,000**

A portion of the existing building temperature controls is governed by a direct digital control system, but a large portion of the building is still controlled with an old pneumatic control system as DDC retrofitted to terminal control equipment. It is recommended that the pneumatic systems be replaced with a direct digital control system. Furthermore, terminal pneumatic equipment should be replaced with digital equipment.



Y GBI 1 2 **MS-M11 Replace Original Unit Ventilators** **\$75,000**

Classroom unit ventilators in use in the all portions of the building except for the new addition are most likely original to the structure, are well past their intended service life, and require replacement. Replacement will result in noticeable increases in efficiency, control, and improved conditioning of the air.



Y GBI 1 3 **MS-M12 Integrate Heat and AC in Office and Classrooms** **\$20,000**

Many spaces throughout the building feature ducted supply heat, ducted relief air/exhaust, and a split DX AC fan coil unit. This layout presents issues in regards to ventilating the space in the warmer months. As the AC unit conditions the air within the room, warm makeup air for proper ventilation that has not been pre-conditioned is ducted in directly from outside. This dramatically increases the cooling load experienced by the existing AC equipment. Furthermore, The AC equipment, both the condensing units on the roof and the coil units in the spaces, have reached the end of their service life. It is recommended that the split systems be removed, and packaged air handling units featuring both heating and cooling capabilities be installed and ducted through the existing supply/return distribution system. Effected Areas: Basement copy room, Room 218.



Y GBI 1 2 **MS-M13 Replace Water Softener System** **\$20,000**

The current water softener system requires continous attention and much handling of chemicals. The system and it's components have reached the end of their useful life. Replacement with a new contained unit.



Y GBI 1 3 **MS-M14 Replace Inefficient Exhaust Fans in Field House Addition** **\$45,000**

The current wall mounted exhaust fans in use in the field house for relief air draw air directly from the space and exhaust it directly outside. This arrangement results in a high cfm and a very low static pressure experienced by the fans, resulting in extremely low efficiency levels. Furthermore, exhausting this air directly outside eliminates the potential to recover wasted energy from the airstream. These fans should be replaced with an ducted energy recover unit and exhaust fans appropriately selected for maximum efficiency.



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Y GBI 1 2 **MS-M15 Replace Emergency Gas Valves** **\$18,000**

Many science instruction rooms featuring gas nozzles are equipped with emergency gas valves which are inoperable and unsafe. Furthermore, these gas valves allow for easy turn-on from the "closed" position by any persons at anytime. Replacement of all gas valves with keyed units to both repair and improve the safety of the system is recommended. Rooms 209, 211, 213, 215 , 217, 219.

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Y GBI 1 2 **MS-M16 Sanitary Drain Piping in Kitchen** **\$2,000**

Sanitary drains for the 3 basin wash sink in the kitchen all collect into one pipe before joining the main sanitary line. This is an incorrect piping arrangement. Separate this system so that each basin has it's own dedicated trap and pipe, each of which joins the main sanitary pipe at seperate points.



Y GBI 1 2 **MS-M17 Foot Controls for Kitchen Sink** **\$500**

Replace hand controls serving the hand wash sink in the kitchen area with floor petals.



Y GBI 1 2 **MS-M18 Install ADA Accessible Fixtures** **\$30,000**

A number of gang toilet rooms do not feature any ADA compliant toilets. Acceptable fixtures should be installed in accordance with code. 12 examples.

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Y GBI 1 2 **MS-M19 Missing ADA Pipe Wrap** **\$24,000**

Many lavatories do not feature ADA compliant pipe insulation. ADA pipe insulation should be installed on these fixtures in accordance with ADA regulations. 157 examples.



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Y GBI 1 3 **MS-M20 Hydronic Piping Insulation in Field house Gym** **\$1,000**

Insulated hydronic piping is currently installed penetrating and traveling up the walls of the field house gym space. This position makes them prone to impacts from balls and sporting equipment and some of the insulation is already being damaged. Damaged pipes and insulation should be repaired and proper measures taken to protect these pipes in the future.



Y GBI 1 2 **MS-M21 Home and Careers Lockout Station** **\$2,500**

There is currently no emergency lockout station in the home and careers classrooms. A proper unit should be installed to give instructors complete control over the cooking equipment to prevent fires and future safety hazards.





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Intermediate/Middle School

In Project	Category	Year	Priority	Electrical Recommendations	Estimate	Thumbnails (if any)
HS				<u>I-MS-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i>		
Y	HS	1	1	MS-E1 Exit Egress Signage Replace dim and non-working exit fixtures that violate life safety code requirements. Replace with new energy efficient LED fixtures for increased savings. Provide additional exit fixtures where required to comply with current meet life safety codes. (estimate 80 locations)	\$16,000	
Y	HS	1	1	MS-E2 Fire Alarm System Expand existing Siemens Cerberus addressable system to support additional devices. Provide additional detection in spaces identified for increased occupant safety. (estimate 25 devices)	\$8,750	
Y	HS	1	1	MS-E3 Fire Alarm Audio / Visual Notification Devices Provide additional Fire Alarm Audio / Visual notification devices where required in occupied spaces to comply with NFPA requirements. (estimate 10 locations)	\$0	
Y	HS	1	1	MS-E4 Arc Flash Labeling The current electrical system has not been Arc Flash rated and labeled in accordance with current NEC 70E code. Provide testing and proper labeling in compliance with NEC code requirements.	\$24,000	
Y	HS	2	1	MS-E5 Kitchen Hood ANSUL System At kitchen exhaust hoods; Provide connection from ANSUL control panel to Fire Alarm Control Panel so to activate alarm sequence upon activation of ANSUL system to comply with current Life Safety code requirements.	\$2,000	

Y HS 1 1 **MS-E6 Exterior Emergency Egress Lighting** **\$10,800**
 Provide NFPA Level 1 compliant exterior emergency egress lighting adjacent to all exterior egress doors to meet life safety code requirements. (estimate 24 locations)



Y HS 1 3 **MS-E7 GFCI Receptacles** **\$1,800**
 At locations identified, where within 6'-0" of a source of water, replace non-protected receptacle with new GFCI protected device. Identify devices as being "GFCI Protected". (estimate 12 locations)



Y HS 1 m **MS-E8 Emergency Shut-Off Buttons** **\$1,800**
 Replace broken emergency shut-off buttons in Technology Labs. (estimate 4 locations)



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Y HS 1 m **MS-E9 Emergency Shut-Off Signage** **\$400**
 Provide signage identifying emergency shut-off locations to comply with life safety code requirements. (estimate 4 locations)



Y HS 1 3 **MS-E10 Technology Shop Busway** **\$20,000**
 Replace existing ceiling mount power busway and connections at technology shop with new power distribution system not having exposed live parts.



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GBI **II-MS-GENERAL BUILDING RENOVATIONS-INTERIOR**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBI 1 3 **MS-E11 T-8 Fluorescent Lighting Upgrades** **\$1,433,000**
 In areas lit with with T8 lamped fixtures with electronic ballasts. Replace fixtures with new LED lit fixtures for increased energy and maintenance savings. Reuse existing wiring and controls.



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Y GBI 1 3 **MS-E12 Light Switching** \$56,250

Provide multi-level switching control of lighting within student occupied spaces to meet SED requirements. (estimate 75 locations)

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Y GBI 1 3 **MS-E13 Exposed Lamp Shatter Guards** \$1,000

In areas with light fixtures that have exposed lamps; provide lamp shatter guard tubes and/or wireguard protection to prevent accidental lamp breakage. (estimate 10 locations)

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Y GBI 1 3 **MS-E14 Occupancy Sensors** \$22,500

Provide Occupancy Sensors in all areas not currently having coverage to comply with NYS energy code requirements and for increased energy savings. (estimate 75 locations)



Y GBI 1 3 **MS-E15 Daylight Harvesting Lighting Sensors** \$56,250

Provide daylight harvesting sensors to comply with NYS energy code requirements and for increased energy savings. (estimate 75 locations)



Y GBI 1 3 **MS-E16 Ceiling Mount Projector Power** \$81,000

Classrooms with ceiling mount projectors have non-code compliant above ceiling receptacle connections. Relocate all above ceiling receptacles into the ceiling grid panel. (estimate 81 locations)



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Y GBI 1 2 **MS-E17 Power Panels** \$120,000

Replace original construction power panels with new power panels and feeders. (estimate 24 panels)



Y GBI 1 2 **MS-E18 Kiln Disconnect** \$2,000

Provide manual disconnect switch ahead of kiln receptacle to allow user to disconnect power prior to removing plug to meet SED code requirements. (two locations)



Y GBI 1 3 **MS-E19 Fire Caulk Through Wall Penetrations** \$500

Provide fire caulking at through wall penetrations to maintain fire safety ratings. (estimate 5 locations)



RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBE 1 3 **MS-E20 Exterior Wall Mount Fixtures** **\$10,800**

Replace exterior HID lit wall mount fixtures with new LED fixtures with photo-cells to provide reduced energy usage and reduced maintenance costs. (estimate 24 locations)

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Y GBE 1 3 **MS-E21 Canopy Mount Lighting** **\$13,500**





Replace CFL and HID lit canopy mount lighting with LED fixtures with remote photo-cells to provide reduced energy usage and reduced maintenance costs. (estimate 30 fixtures)

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 F: 607-358-1800

Intermediate/Middle School

In Project	Category	Year	Priority	Technology Recommendations	Estimate	Thumbnails (if any)
	SBI			<u>I-MS-SMART SCHOOLS BOND INVESTMENT</u> <i>SMART SCHOOLS BOND INVESTMENT PLAN</i>		
Y	SBI	1	1	MS-T1 Network Data Closet Improvements There are five existing network cabinets in The Middle/Intermediate School with the MDF containing 7' open data racks. All locations should receive architectural changes to isolate the equipment within rooms. The cabinets should be replaced with open racks to allow proper air flow of the network electronics. Network rooms need to be secured, properly cooled & grounded for PoE switches as well as properly powered to prevent outages. Improvements should also include re-cabling where required, a new 10G fiber optic backbone, new patch cables and wire management.	\$460,000	
Y	SBI	1	1	MS-T2 Network Electronics Upgrade The network electronics should be upgraded and reconfigured to maximize bandwidth to the end user. The switches should be capable of 10 Gbps connection to the network backbone and share at least 20 Gbps with the other switches in the data room. They should also be sized with proper power supplies so that PoE+ devices can be powered via the switch.	\$150,000	
Y	SBI	1	1	MS-T3 Security Video Surveillance The district has begun to phase out the existing analog cameras and DVRs but a complete replacement of the DVR with video recording servers will provide the district with a single, simplified video management system that is versatile and easily expandable. The district has purchased some of the equipment to continue the process however labor, cabling and some additional equipment is needed. The district should focus on corridor, stairwell, entrance and parking lot coverage.	\$90,000	
Y	SBI	1	1	MS-T4 Upgrade Network Data Cabling The existing building data cabling is in unsatisfactory condition in some areas of this section of the building. Some data rooms are potentially being relocated which would require recabling, at which point this issue will be addressed for this section of the high school. The recommendation is to reduce classroom data outlets as wireless will become widely used. Classrooms would receive four data drops each as a district standard.	\$527,000	I M A G E
Y	SBI	1	1	MS-T5 Wireless Network Infrastructure To account for more widespread use of wireless devices and the need for a flexible wireless network to support student used devices, the wireless network should be upgraded to the most current wireless-AC standard and expand coverage to all classrooms. Capacity should also be considered so the district has the ability to deploy 1-2-3 devices per student.	\$152,000	

Y SBI 1 1 **MS-T6 Voice over IP Phone System**
Included in High School South



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GBI **II-MS-GENERAL BUILDING RENOVATIONS-INTERIOR**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBI 1 1 **MS-T7 IP Video Distribution to Replace Cable Infrastructure** **\$30,000**
The current system is very old and the low and high band channels provide poor viewing quality. The district should look to upgrade this system to an IP based system allowing content and channels to be broadcast over the Local Area Network. This would provide teachers and students with flexible cable & content TV system accessible anywhere.



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Intermediate/Middle School

In Project	Category	Year	Priority	Food Service Recommendations	Estimate	Thumbnails (if any)
HS				<u>I-MS-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i>		
Y	HS	2	1	MS-FS1 Replace Exhaust Hood Island Exhaust hood mesh filters do not comply with NFPA code 96. Recommend replacing with louvered style filters.	\$1,000	I M A G E
Y	HS	2	1	MS-FS2 Replace Exhaust Hood Existing Island exhaust hood is over 40 years old and does not cover the cooking equipment adequately, NFPA code 96 requires the hood to extend 6"-12" beyond the cooking equipment footprint. Recommend replacing with an energy efficient exhaust hood within the next 1-2 years with new duct work & roof top exhaust and supply air fan. (\$35,000.00 – does not include fans or duct work).	\$35,000	I M A G E
Y	HS	2	1	MS-FS3 Install Fire Suppression System There is no Fire Suppression System installed in the hood per NFPA code 96 requirements. Recommend installing a Fire Suppression System ASAP.	\$4,500	I M A G E
Y	HS	2	1	MS-FS4 Replace Serving Lines Three (3) custom Serving lines are over 40 years old and in need of replacement (no cold food storage, built in milk cooler does not appear to be functional, hot food wells old is inefficient, etc...). Recommend replacing the traditional serving lines to a scatter type system to increase food offerings and reduce serving times within the next 5 years.	\$160,000	I M A G E
Y	HS	2	1	MS-FS5 Replace Ceiling The ceiling tiles in the servery's, kitchen & dishroom are soiled and do not comply with NYS SED requirements (washable non-pores type). Recommend replacing entire ceiling with compliant tiles.	\$0	I M A G E

Y	HS	2	1	MS-FS6	Replace Walk-In Cooler	\$30,000	I M A G E
					Bally walk-in Cooler appears to be over 25 years old and in poor condition (doors were locked and was not able to observe the interior of the units). Recommend replacing the walk-in within the next 5-7 years. Verify existing refrigeration system is not water cooled.		
Y	HS	2	1	MS-FS7	Replace Dishwasher	\$45,000	I M A G E
					Hobart flight type dishwasher is excessive for the foodservice operation (consumes 6 GPM of water, 23KW tank heat & 27KW booster). The elements and interior have heavy scale build up. The dishwasher appears to be over 20 years old. Recommend reconfiguring the dishroom and replacing the soiled dishtable with slat conveyor and dishwasher with a smaller conveyor style dishwasher with energy savings heat reclaim system reducing the electric footprint up to 50% and reduce the dishroom size within the next 3-4 years. (\$45,000 – includes new dishtables)		
Y	HS	2	1	MS-FS8	Replace Warming Cabinets	\$15,000	I M A G E
					Three (3) Metro warming cabinets are over 22 years old. Recommend replacing within the next 1-2 years with a new energy star rated mobile warming cabinet.		
Y	HS	2	1	MS-FS9	Relocate Paper & Chemical Storage	\$0	I M A G E
					Paper & Chemical storage is located in a room with hot water heater and a piece of equipment with flue (could not access the room). Recommend removing the paper & chemicals from this room and storing chemicals and paper in a separate storage room.		
Y	HS	2	1	MS-FS10	Replace Steamer	\$15,000	I M A G E
					Market Forge pressure steamer with boiler base (200K BTU's) is over 49 years old (1966), in poor condition and the boiler is not required. The boiler used to supply BHP (steam) to two (2) direct steam kettles in the past (in 2003 the kettles were replaced by 2 self-contained gas kettles). Recommend replacing the steamer with an energy start rated unit to reduce the gas demand and increasing efficiency within the next 2-3 years.		
Y	HS	2	1	MS-FS11	Replace Oven	\$28,000	I M A G E
					Market Forge double deck baking oven (Electric) is over 49 years old and in poor condition. Recommend replacing the oven with a Gas fired Combination Oven or double deck Convection oven within the next 2-3 years to reduce the electric demand.		
Y	HS	2	1	MS-FS12	Replace Kettle	\$15,000	I M A G E
					Groen Kettle (Electric) is over 49 years old and in poor condition. Recommend replacing the oven with a Gas fired Kettle oven within the next 2-3 years to reduce the electric demand (If operation requires and additional Kettle).		
Y	HS	2	1	MS-FS13	Replace Mixer Stand	\$2,500	I M A G E
					Hobart bench mixer is placed on a wooden stand that does not comply with DOH requirements. Recommend replacing the stand with a mobile stainless steel stand within the next 1-2 years.		

Y	HS	2	1	MS-FS14 Replace Serving Line (Intermediate School)	\$60,000	I M A G E
				One (1) custom Serving line are over 40 years old and in need of replacement (no cold food storage, built in milk cooler does not appear to be functional, hot food wells old is inefficient, etc...). Recommend replacing with a modular style serving line within the next 5 years.		
Y	HS	2	1	MS-FS15 Add Hand Sink (Intermediate School)	\$600	I M A G E
				There is no designated hand sink available in servery. Recommend adding a hand sink in the servery.		
Y	HS	2	1	MS-FS16 Replace Warming Cabinet (Intermediate School)	\$5,000	I M A G E
				One (2) Metro warming cabinet is over 22 years old. Recommend replacing within the next 1-2 years with a new energy star rated mobile warming cabinet.		
Y	HS	2	1	MS-FS17 Renovate Kitchen	\$80,000	I M A G E
				We recommend minor renovation of the entire kitchen/servery within the next 5-7 years to allow staff greater flexibility with food offerings and food flow. Add an additional \$80,000 for foodservice replacement items related to a kitchen renovation, i.e. paintleg duct, sinks, worktables, mop sink, hand sink, etc...		



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 P: 607-358-1000
 F: 607-358-1800

Intermediate/Middle School

In Project	Category	Year	Priority	Theatrical Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-MS-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i>		
Y	HS	1	1	MS-TH1 Room Acoustics The acoustics in this space are acceptable for a cafeteria style space. Significant improvements in acoustics would require a major ceiling tear out, a high NRC ceiling tile and gridwork and additional, specialized acoustic treatments on the walls below 8' - 0" AFF. These lower wall treatments are easily soiled, and, as such, are not typically embraced from a maintenance standpoint.	\$30,000	I M A G E
Y	HS	1	1	MS-TH2 Audio System The existing audio system in this space is old and inadequate. A new audio system is recommended. Lower budget includes basic automated audio system with hearing assistance, amplification, processing and speakers. Upper budget includes an audio console, wireless microphones and related cabling, better speakers, a portable control panel and portable cases.	\$80,000	I M A G E
Y	HS	1	1	MS-TH3 Lighting System The existing lighting system is basically non-existent. Lower budget includes new LED stage and front of house wash fixtures and an architectural control system. Upper budget includes additional wash & ellipsoidal LED lighting fixtures, connector strips, a small lighting console, distribution and a small relay rack.	\$65,000	I M A G E
Y	HS	1	1	MS-TH4 Houselighting System The existing fluorescent houselighting system appears to be adequate; however, upgrades could be made to convert the existing system to a completely LED based system (depending on the type of lamps in the fluorescent fixtures). Lower budget includes replacing existing fluorescent tubes with LED tubes, providing that the existing tubes are T8 style. Upper budget includes replacing existing fluorescent tubes with LED tubes if the existing tubes are T5 style, but doesn't include any needed wiring changes.	\$8,000	I M A G E
Y	HS	1	1	MS-TH5 Stage Rigging System	\$2,500	

1) Most of the stage sets have been suspended by light duty chain not approved for overhead lifting, in questionable ways and with open S hooks, carabiners or open chain links. 2) The trim chains on stage do not have safety bolts. Safety bolts should be added to all stage batten trim chains. This is a subject of discussion in the rigging industry, but properly installed safety bolts are a recommended safety feature. 3) Most of the stage battens appear to have threaded couplings, which can suddenly fail. The battens should all be replaced (included in stage rigging system improvements budget below).

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Y HS 1 1 **MS-TH6 Stage Rigging System - Improvements** **\$25,000**

The existing stage rigging system has been installed with light duty chain not approved for overhead lifting and in an unsafe manner as well as on battens with threaded couplers. It is recommended that the entire system be replaced.

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y HS 1 1 **MS-TH7 Stage Rigging System - Curtains** **\$2,000**

The stage curtains are all IFR (inherently flame retardant) and were completely replaced in 2008. These curtains are durable, if not attractive, and should last for several more years unless serious damage is done to them. The existing curtain tracks appear to be older, but in fair operating condition. Budget includes new track operating lines and sandbag weighted floor pulleys.

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Y HS 1 1 **MS-TH8 Video Presentation System** **\$20,000**

No existing projector was located and the existing projection screen is older, manually operated and the wrong format for today's video presentations. It is recommended that the system be upgraded with a new projection screen and portable projector with a stage input. Budget includes new portable HD projector & cart, motorized 16:9 video screen and one stage input location with auto-sensing.

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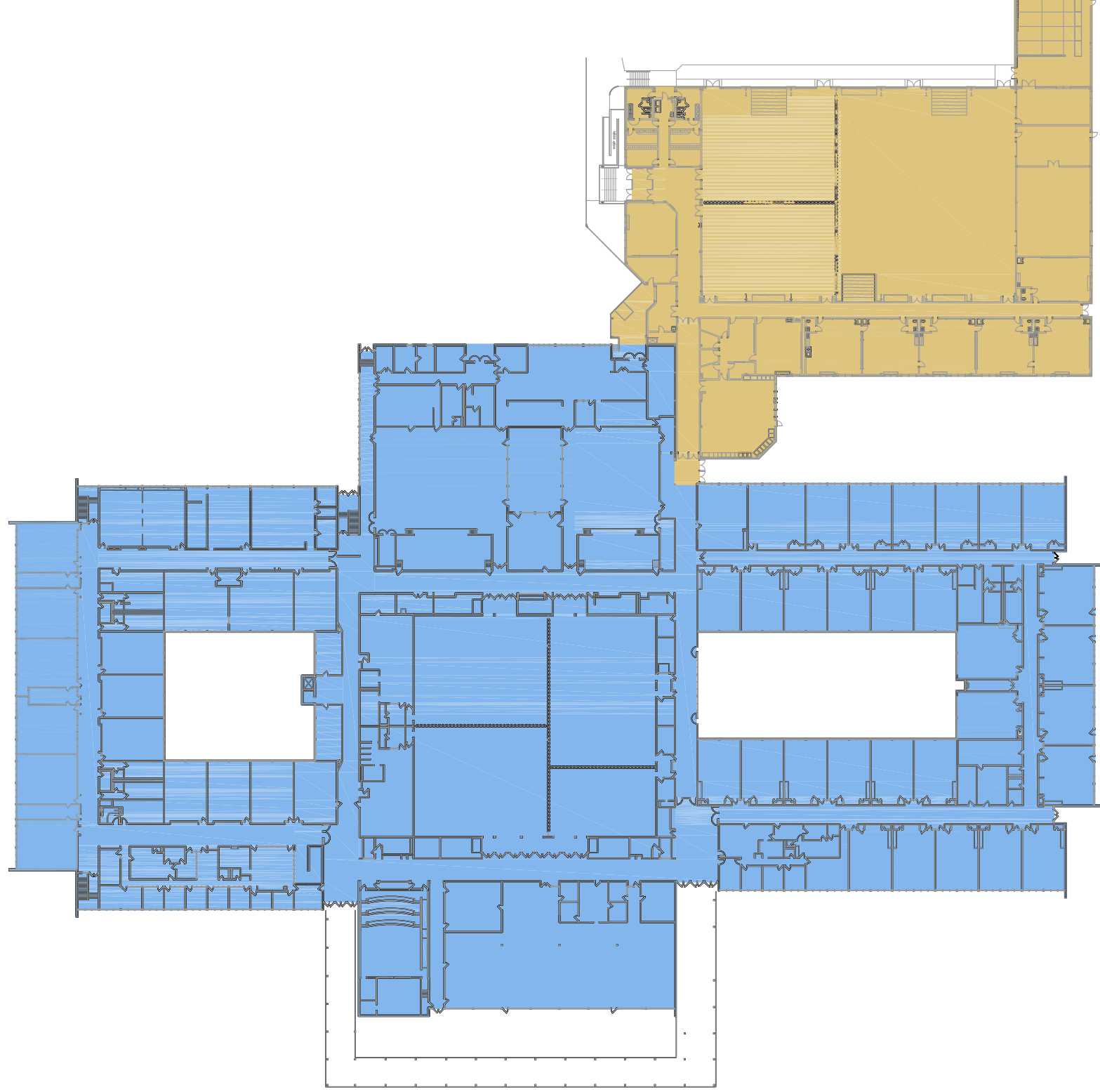
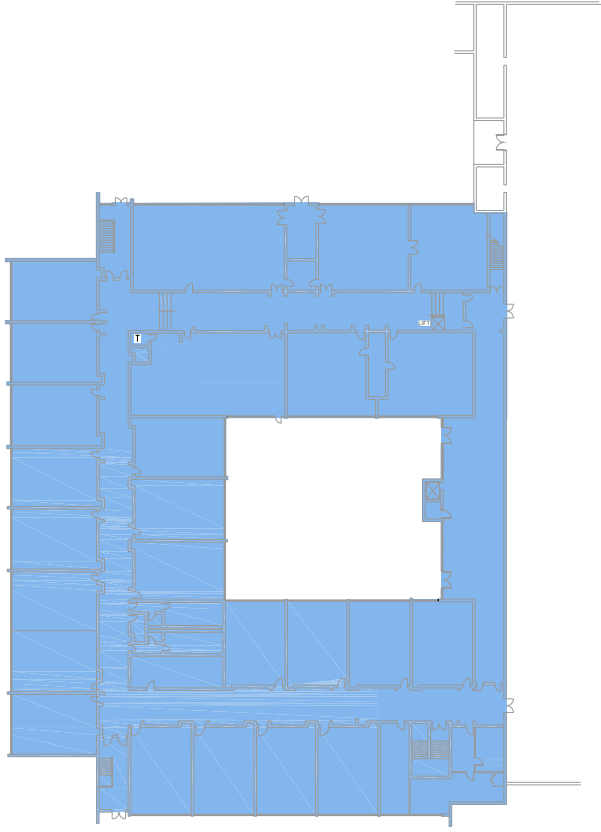
y HS 1 1 **MS-TH9 FOH Cove Lighting System** **\$10,000**

A front of house (FOH) rigid lighting system is recommended if this space is utilized for performances. Due to the low ceiling height of this room; however, adoption may prove to be difficult and put fixtures too close to the floor and invite cafeteria use damage. This can be explored if desired by the owner. Overhead attachments are unknown at this point and could greatly impact the installation costs.



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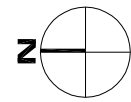
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KEY

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SYSTEMS DESCRIPTIONS



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F: 607-358-1800

Maintenance Building

Site Description

GENERAL BUILDING INFORMATION

Fuel Oil: None observed

Potable Water: Potable water is provided by municipal system.

Sanitary: Sanitary sewer is provided by municipal system.

Electric: Electric is provided by NYSEG

Natural Gas: Natural gas is provided by NYSEG

Stormwater: Stormwater runoff from building and grounds sheet drain to catch basins and taken to municipal system.

Cable/Internet: Television and Internet services are provided to the main building by Time Warner Cable.

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Wes Parking Lot:

Age- Varies

Expected remaining useful life- 2 years

Rating- Unsatisfactory

Description:

Located to the west of the maintenance garage is a parking lot in poor condition.



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Maintenance Building

Mechanical Description

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Boilers:

Age-
Expected remaining useful life- 10
Rating- Satisfactory

Description: There is a Weil Mclain PFG - 8 cast iron boiler with an input rating of 427,000 btu/hr

Domestic Water Systems:

Age-
Expected remaining useful life- 10
Rating- Satisfactory

Description: The water supply is municipal.

Domestic Hot Water:

Age-
Expected remaining useful life- 10
Rating- Satisfactory

Description: There is a tank type gas fired water heater

Sanitary and Storm Systems:

Age-
Expected remaining useful life- 10
Rating- Satisfactory

Description: The sanitary waste from the school empties to municipal systems.

Office Heat/Cooling

Age-
Expected remaining useful life- 10
Rating- Unsatisfactory

Description: Most of the office have split system ductless air conditioners for cooling and baseboard radiators for heating. The offices have no form of ventilation

Work Shop

Age-
Expected remaining useful life- 10
Rating- Unsatisfactory

Description: The work shop is heated by base board radiation. The shop has not form of ventilation.



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Maintenance Building

Electrical Description

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Electrical Service Entrance:

Age- 47 years
Expected remaining useful life- 1 years
Rating- Satisfactory

Description: The 120/240 Volt single phase electrical service is provided via overhead lines that is separate than the service for the school campus. The service enters an obsolete 120/240V single phase Pushmatic distribution panel. The current electrical system has not been Arc Flash tested and labeled.

Emergency Power System:

Age- N/A
Expected remaining useful life- N/A
Rating- N/A

Description: none on location

Electrical Power Distribution Panels:

Age- 47 to 20 years
Expected remaining useful life- 1 to 20 years
Rating- Satisfactory

Description: The power distribution panels with the exception of one, are all obsolete original vintage 120/240 Volt Pushmatic panels that have exceeded their expected useful lifespan and in which replacement parts are no longer available.

Fire Alarm Systems:

Age- Unknown
Expected remaining useful life- Unknown
Rating- Unknown

Description: The current fire alarm system was not identified and is suspected to be very old. The building has some detection devices and only two pull stations were identified. No audio / visual notification devices exist in this building.

Exit Egress Path Signage:

Age- N/A
Expected remaining useful life- N/A
Rating- Unsatisfactory

Description: No exit egress signage was identified in this building.

Emergency Egress Lighting:

Age- N/A
Expected remaining useful life- N/A
Rating- Unsatisfactory

Description: Neither interior nor exterior emergency egress lighting exists in this building.

General Lighting:

Age- 15 years
Expected remaining useful life- 5 years
Rating- Satisfactory

Description: The building appears to be lit with T8 fluorescent fixtures. The office areas are recessed and surface mount fixtures are in other areas.

Wiring Devices:

Age- 47 years
Expected remaining useful life- 3 years
Rating- Satisfactory

Description: The building's wiring and receptacles are dated to original construction and has reached it's expected useful lifespan.

Exterior Building Mount Lighting:

Age- 5 years
Expected remaining useful life- 15 years
Rating- Satisfactory

Description: The exterior building mount lighting consists of LED spotlights placed above the roofline.



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Maintenance Building

Technology Description

Data Network Infrastructure:

Age- 10+ Years Old
Expected remaining useful life- 1-3 Years
Rating- Unsatisfactory

Description: The maintenance building has one data cabinet that receives a fiber connection from the High School. This data cabinet then feeds horizontal Category 5 & 5e data cabling throughout the building to serve workstations, printers and a wireless access point.

Internet Services:

Age- NA
Expected remaining useful life- NA
Rating- NA

Description: Internet connectivity is receiving thru the district network connection.

Voice Systems:

Age- 5-10 Years
Expected remaining useful life- 3-5 Years
Rating- Unsatisfactory

Description: The phones at the bus garage are a mix of digital handsets that work off the district's PBX system and some VoIP phones that connect to the PXB's VoIP module.

Wireless Technologies:

Age- 5-7 Years
Expected remaining useful life- 1-3 Years
Rating- Unsatisfactory

Description: There is one wireless access point in the maintenance building located in the break/conference room. It is a Cisco Wireless-G access point with external antennas. It covers the office area with wireless-G connectivity.

Paging Systems:

Age- NA
Expected remaining useful life- NA
Rating- Unsatisfactory

Description: There is currently no paging in the maintenance building.

Clock Systems:

Age- NA
Expected remaining useful life- NA
Rating- Unsatisfactory

Description: The maintenance building does not have a master clock system. All clocks in this building are independently controlled.

Video Systems:

Age- 10+
Expected remaining useful life- 3-5 Years
Rating- Satisfactory

Description: The maintenance building has cable TV service that is distributed via coaxial cable through the building. This basic setup meets the current needs of this building.

Security Access Control System:

Age- 3-5 Years
Expected remaining useful life- 10 Years
Rating- Satisfactory

Description: The maintenance building has access control at two entrances, the main and the rear entrance. There are door contacts on the access controlled doors but not every door on the envelope of the building. The access controlled doors are released by an electric strike that fires from the access control panel.

Video Surveillance:

Age- NA
Expected remaining useful life- NA
Rating- Unsatisfactory



Description: There is currently no surveillance at the maintenance building however the adjacent parking lot is covered from High School North.

RECOMMENDATIONS



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Maintenance Building

In Project	Category	Year	Priority	Site Recommendations	Estimate	Thumbnails (if any)
	GSR			<u>I-MB-GENERAL SITE RENOVATIONS</u> GENERAL SITE RENOVATIONS		
Y	GSR	1	1	MB-L1 Asphalt Parking Asphalt parking lot at the maintenance building is in poor condition and should be replaced to full depth.	\$620,000	
Y	GSR	1	1	MB-L2 Temp. Storage Buildings Temp. storage building locations prevent efficient circulation and parking. Consider removing storage units to allow better circulation and reduce pavement.	\$10,000	



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Maintenance Building

In Project	Category	Year	Priority	Architectural Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-MB-HEALTH AND SAFETY</u> BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS),		
Y	HS	2	1	MB-A1 Replace Building To provide additional space on the high school site and to improve the facilities a relocation and new building is recommended. The size of the building is to take into account the additional storage space currently used as out buildings. Total sq. ft. 14,800	\$2,220,000	I M A G E



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Maintenance Building

In Project	Category	Year	Priority	Mechanical Recommendations	Estimate	Thumbnails (if any)
	HS			<p><u>I-MB-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i></p>		
Y	HS	1	1	<p>MB-M1 Office Ventilation The offices in the building do not have any form of mechanical ventilation. Provide new air handlers to provide ventilation to the offices.</p>	\$100,000	
	GBI			<p><u>II-MB-GENERAL BUILDING RENOVATIONS</u> <i>RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.</i></p>		



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Maintenance Building

In Project	Category	Year	Priority	Electrical Recommendations	Estimate	Thumbnails (if any)
	HS			<p><u>I-MB-HEALTH AND SAFETY</u> BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</p>		
Y	HS	1	1	<p>MB-E1 Exit Egress Signage Provide new LED lit egress signage at each egress location and other areas to comply with current life safety code requirements. \$1,500</p>	\$0	 E
Y	HS	1	M	<p>MB-E2 Emergency Egress Lighting Provide NFPA Level 1 compliant interior and exterior emergency egress lighting to comply with current code requirements. \$3,000</p>	\$0	 E
Y	HS	1	1	<p>MB-E3 Fire Alarm System Expand or replace the current fire alarm system and provide additional notification and audio / visual devices as required per current NFPA code requirements. \$2,000</p>	\$0	 E
Y	HS	1	1	<p>MB-E4 Arc Flash Labeling The current electrical system has not been Arc Flash tested, rated, and labeled per current NEC 70E code requirements. Provide testing and proper labeling of electrical system. \$1,000</p>	\$0	 E
Y	HS	1	1	<p>MB-E5 GFCI Receptacles Receptacles within 6'-0" of a water source are required to be GFCI protected. Replace non-protected receptacles with GFCI receptacles to comply with current code requirements. \$300</p>	\$0	 I M A G E

GBI **II-MB-GENERAL BUILDING RENOVATIONS-INTERIOR**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBI 1 1 **MB-E6 Fluorescent Lighting Upgrades** \$0
 Replace existing fluorescent lighting with new LED lighting to reduce energy usage and reduce maintenance costs. \$28,600



Y GBI 1 1 **MB-E7 Occupancy Sensors** \$0
 Provide occupancy sensors for lighting control to comply with NYS energy code requirements and energy savings. \$4,000



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Y GBI 1 1 **MB-E8 Electrical Service Entrance** \$0
 Replace the existing overhead electrical service with underground service and replace the obsolete Pushmatic main distribution panel with a new MDP. \$18,500



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Y GBI 1 1 **MB-E9 Power Distribution Panels** \$0
 Replace the obsolete Pushmatic power distribution panels that are dated to original vintage construction in which replacement parts are no longer available. Provide new panels, feeders, and wiring devices throughout the building to provide safe and reliable electrical service. \$28,500




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
Maintenance Building

In Project	Category	Year	Priority	Technology Recommendations	Estimate	Thumbnails (if any)
	GBI			<u>I-MB-GENERAL BUILDING RENOVATIONS-INTERIOR</u> <i>RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.</i>		
Y	GBI	1	1	MB-T1 Network Data Closet Improvements The data cabinet in this building should be upgraded for capacity and some of the data should be upgraded to Cat6 data cabling to improve performance. Data cabling should be placed in proper conduit and raceway. The cabinet will have UPS for uninterrupted power for several minutes after and outage. The link to the high school could be improved by installing cheap optics for the existing fiber optic cable. \$6,200	\$0	I M A G E
Y	GBI	1	1	MB-T2 Network Electronics Upgrade The network electronics should be upgraded and reconfigured to maximize bandwidth for applications such as video. The switches should be capable of 10 Gbps connection to the network backbone and share at least 20 Gbps with the other switches in the data room. They should also be sized with proper power supplies so that PoE+ devices can be powered via the switch such as cameras. \$5,000	\$0	I M A G E
Y	GBI	1	1	MB-T3 Security Video Surveillance Some video surveillance should be added to the maintenance building to cover the back side of the building. \$20,000	\$0	I M
Y	GBI	1	1	MB-T4 Upgrade Network Data Cabling The existing building data cabling is in unsatisfactory condition in some areas of this building. Cable pathways do not have cable supports or fire stopping, some cables should also be protected in conduit. \$7,500	\$0	I M A
Y	GBI	1	1	MB-T5 Wireless Network Infrastructure The maintenance building has some wireless but this could be expanded by adding and additional access point to cover the complete building. \$3,000	\$0	I M A G E
Y	GBI	1	1	MB-T6 Voice over IP Phone System VOIP phones should be added to this building as part of the new district wide system.		

KEY PLANS



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 1988 BUILDING



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MAINTENANCE BUILDING

FLOOR PLAN

HORSEHEADCENTRAL SCHOOL DISTRICT

SYSTEMS DESCRIPTIONS



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Bus Garage

Site Description

GENERAL BUILDING INFORMATION

Fuel Oil: None noted at time of inspection

Potable Water: Potable water is provided by municipal system.

Sanitary: Sanitary sewer conveyance is provided by municipal system.

Electric: Electric service is provided by NYSEG

Natural Gas: Natural gas is provided by NYSEG.

Stormwater: Stormwater runoff from building and grounds sheet drain to catch basins, lawn areas and adjacent marsh.

Cable/Internet: Television and Internet services are provided to the main building by Time Warner Cable.

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Bus Parking Lot:

Age- Varies

Expected remaining useful life- 2 years

Rating- Unsatisfactory

Description: Located around the bus garage is asphalt pavement in poor condition.



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Bus Garage

Mechanical Description

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Boilers:

Age- Original
Expected remaining useful life- 15 Years
Rating- Satisfactory

Description: The building is served by a gas fired cast iron HB Smith boiler with a capacity of 219,000 Btu/hr

Domestic Water Systems:

Age- 2000
Expected remaining useful life- 10 Years
Rating- Satisfactory

Description: The water supply is municipal.

Domestic Hot Water:

Age- 2000
Expected remaining useful life- 15 Years
Rating- Satisfactory

Description: The building is served by a tank type natural gas fired hot water heater.

Sanitary and Storm Systems:

Age- 2000
Expected remaining useful life- 15 Years
Rating- Satisfactory

Description: The sanitary waste from the building empties to municipal systems.

Office Ventilation/Heat:

Age- 2001

Expected remaining useful life- 10 Years

Rating- Satisfactory

Description: The offices are served by two air handlers located in the 2nd floor mechanical rooms. They also have indoor condensing units that provide cooling to spaces.

Maintance Bays

Age- 2000

Expected remaining useful life- 10 Years

Rating- Unsatisfactory

Description: The maintance bays are served by gas fired infrared heaters. Currently there is no form of mechanical ventilation for the space.

Paint Booth/Welding Bay

Age- 2000

Expected remaining useful life- 15 Years

Rating- Satisfactory

Description: The paint booth make up air served by a duct transferring air from the maintanance shop to the booth. The is an exhaust fan removeing air from the booth. There is a ducted gas fired unit heater located in the maintance bay that heats the space. There is also a gas fired unit heater in the space.

Storage Bay

Age- 2000

Expected remaining useful life- 15 Years

Rating- Satisfactory

Description: There is an exhaust fan and gas fired unit heater that serves the space.



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Bus Garage

Electrical Description

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Electrical Service Entrance:

Age- 6 years
Expected remaining useful life- 34 years
Rating- Satisfactory

Description: The electrical service is 120/240 volt, three phase, 600A fed underground into an old Cutler Hammer 600A disconnect switch that serves a Square D 600A Main Distribution Panel.

Emergency Power System:

Age- 6 years
Expected remaining useful life- 24 years
Rating- Satisfactory

Description: Emergency power is provided by a Cummins diesel generator located on the west side of the building. There is a Cummins automatic transfer switch which transfers power to a emergency power panel.

Electrical Power Distribution Panels:

Age- 6 to 47 years old
Expected remaining useful life- 34 to 1 years
Rating- Satisfactory

Description: The electrical power distribution panels vary from newer up to date panels to original construction obsolete pushmatic and Cutler Hammer panels. The electrical distribution system has not been Arc Flash tested and rated.

Interior Emergency Egress Lighting

Age- 6 years
Expected remaining useful life- 9 years
Rating- Satisfactory

Description: The majority of the interior emergency egress lighting is provided by wall packs that are connected to the emergency back up power circuit. Additional emergency lighting needs to be added in the upstairs areas to comply with current code requirements.

Exterior Emergency Egress Lighting

Age-
Expected remaining useful life-
Rating- Unsatisfactory

Description: None of the exterior egress locations have exterior emergency egress lighting.

Fire Alarm System

Age- 10 years
Expected remaining useful life- 10 years
Rating- Satisfactory

Description: The existing fire alarm system is a Notifier SFP-2404 zoned type system.

Exit Egress Path Signage

Age- 15 years
Expected remaining useful life- 1 years
Rating- Unsatisfactory

Description: The majority of the exit egress signage is either dim or unlit and does not clearly identify exit egress locations.

General Lighting:

Age- 6 to 20 years
Expected remaining useful life- 14 to 1 years
Rating- Satisfactory

Description: The office areas of the building have T8 fluorescent fixtures. The bay area is lit with T5 High Output fluorescent fixtures. Some areas are still lit with obsolete T12 fluorescent fixtures.



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Bus Garage

Technology Description

Data Network Infrastructure:

Age- 10+ Years Old
Expected remaining useful life- 1-3 Years
Rating- Unsatisfactory

Description: The bus garage has one data cabinet that receives a fiber connection from the High School through Southern Tier Network. This data cabinet then feeds horizontal Category 5 & 5e data cabling throughout the building to serve workstations, printers and security cameras.

Internet Services:

Age- NA
Expected remaining useful life- NA
Rating- Satisfactory

Description: Internet connectivity is receiving thru the district network connection.

Voice Systems:

Age- 5-10 Years
Expected remaining useful life- 3-5 Years
Rating- Unsatisfactory

Description: The phones at the bus garage are a mix of digital handsets that work off the district's PBX system and some VoIP phones that connect to the PBX's VoIP module.

Paging Systems:

Age- NA
Expected remaining useful life- NA
Rating- Unsatisfactory

Description: There is currently no paging in the bus garage.

Clock Systems:

Age- NA
Expected remaining useful life- NA
Rating- Unsatisfactory

Description: The bus garage does not have a master clock system. All clocks in this building are independently controlled.

Video Systems:

Age- 10+

Expected remaining useful life- 3-5 Years

Rating- Satisfactory

Description: The bus garage has cable TV service that is distributed via coaxial cable through the building. This basic setup meets the current needs of this building.

Security Access Control System:

Age- 3-5 Years

Expected remaining useful life- 10 Years

Rating- Satisfactory

Description: The bus garage has access control at two entrances. There are door contacts on the access controlled doors but not every door on the envelope of the building. The access controlled doors are released by an electric strike that fires from the access control panel.

Video Surveillance:

Age- 1 Year

Expected remaining useful life- 5-7 Years

Rating- Satisfactory






Description: The DVR at the bus garage was just replaced with an NVR to record IP cameras and existing analog cameras through encoders.

RECOMMENDATIONS



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Bus Garage


In Project	Category	Year	Priority	Site Recommendations	Estimate	Thumbnails (if any)
	GSR			<u>I-BG-GENERAL SITE RENOVATIONS</u> GENERAL SITE RENOVATIONS		
Y	GSR	1	1	BG-L1 Entrance Drive Entrance drive asphalt pavement is in poor condition and should be replaced to full depth.	\$325,000	
Y	GSR	1	2	BG-L2 Asphalt Bus Parking West Asphalt pavement throughout site is in poor condition and should be replaced to full depth	\$775,000	
Y	GSR	1	3	BG-L3 Asphalt Bus Parking East Asphalt pavement throughout site is in poor condition and should be replaced to full depth	\$900,000	
Y	GSR	1	2	BG-L4 Lighting Existing lighting is outdated and should be updated to LED fixtures for security	\$125,000	
y	GSR	1	1	BG-L5 Electrical Service See electrical recommendations for service upgrades	\$0	
Y	GSR	1	1	BG-L6 Utility Improvements At time of inspection utility improvements were not noted. Discuss with District.	\$0	

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Bus Garage

In Project	Category	Year	Priority	Architectural Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-BG-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS),</i>		
Y	HS	1	3	BG-A1 Replace Doors that are Not Fire Rated and/or Handicapped Accessible Some corridor doors are aged and/or are not fire rated in accordance with current code requirements. Additionally, many of these doors lack operational door closers, and have old lock sets and door knobs that are not handicap accessible, and/or have non-impact resistant glass. These doors should be replaced with fire rated doors and frames as required by current code. Several other interior doors that are not required to be fire rated are in poor condition and should also be considered for replacement. Quantity: (2) rated double doors and (4) rated single doors.	\$17,000	I M A G E
Y	HS	1	3	BG-A2 Replace Wire Glass in Door and Window Assemblies A recent project provided door and window assemblies throughout the building with wire glass at fire rated locations. Although the glass meets the fire rating requirement, it does not meet the impact safety requirements outlined in the current NYSED code. Replacing the glass with impact safety glass and/or fire rated glass should be considered. Quantity: (2) single interior doors and (1) single exterior door.	\$600	I M A G E
	ADA			<u>II-BG-PHYSICALLY DISABLED ACCESS (ADA)</u> <i>AMERICANS WITH DISABILITIES ACT (ADA) COUNCIL OF AMERICAN BUILDING OFFICIALS / AMERICAN NATIONAL STANDARDS INSTITUTE (CABO / ANSI)</i>		
Y	ADA	1	3	BG-A3 Update Toilet Room to be Handicap Accessible The Men's and Women's Toilet Rooms are not handicap accessible due to the lack of clearances, grab bars, appropriate toilet and sink fixtures and/or lever style faucets. Some of these toilet rooms also do not have compliant ADA signage. Updating this toilet room in accordance with current code should be considered.	\$80,000	
Y	ADA	1	3	BG-A4 Update Exterior Door to be Handicap Accessible The exterior door located at the bottom of the stair well should be updated to be handicap accessible. Quantity: (1) single door.	\$3,000	I M A G E
	GBI			<u>III-BG-GENERAL BUILDING RENOVATIONS-INTERIOR</u> <i>RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.</i>		
Y	GBI	1	3	BG-A5 Replace Casework Several storage casework units are aged and are approaching the end of their useful life. The existing storage systems in these rooms are an assortment of aged units that are no longer functional or aesthetically pleasing. This casework should be considered for replacement. Replace all casework located in the Lounge, Upstairs Meeting Room, and the Driver Training room.	\$13,500	
Y	GBI	1	3	BG-A6 Add Metal Paneling in the Washing Bay At the end of the washing bay there is exposed plywood. To protect the plywood from damage and deterioration, cover all plywood with metal paneling.	\$4,500	

Y GBI 1 3 **BG-A7 Replace Interior Doors**
Some interior doors are dereriated or have reached the end of their useful life. Locations include Additional Storage, Mechanical Room, and Storage Room. Quantity: (4) single door.

\$10,000

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Y GBI 1 3 **BG-A8 Update Window Shades in Offices**
Many of the offices contain outdated shades that have reached the end of their useful life. Recommend replacing all of them.

\$1,500



Y GBI 1 2 **BG-A9 Replace Metal Trenches**
Many of the metal grates covering the trenches are corroding and are causing a safety hazard. Metal grates in all bays should be replaced.

\$4,000



Y GBI 1 2 **BG-A10 Replace Angles around Trenches**
Some of the metal angles that the metal grate over the floor trenches sits on a severely corroded. These angles should be removed and replaced with new angle.

\$3,000



Y GBI 1 3 **BG-A11 Replace Storage Room Lockers**
The lockers in the Storage Room are in poor condition and will likely need to be replaced soon.

\$3,000



Y GBI 1 3 **BG-A12 Replace Aged Blackboard**
The aged blackboard located in the Driver Training room should be considered to be replaced with new whiteboard (dry erase) unit. Quantity (1) whiteboards / tackboard units.

\$1,000



Y GBI 1 3 **BG-A13 Replace Floor Finish**
Floor finish in several areas has reached the end of its useful life. Replace floor finish in the Lounge, and upstairs Vestibule and Office.

\$9,000

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Y GBI 1 3 **BG-A14 Replace Interior Partition and Door**
There is a Parts Room currently closed off by a in-house made partition and door. These should be replaced with a fire rated door and partition.

\$3,000

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Y GBI 1 2 **BG-A15 Add Trench in the Wash Bay**
In the winter the water from the wash bay flows under the overhead door and creates a large sheet of ice inside and out. Add a trench in the washing bay to intercept this flow of water. Also add a trench near the door to keep water from flowing into the other bays.

\$5,000



Y GBI 1 2 **BG-A16 Replace Damaged Drains** **\$2,500**
 There is a damaged drain located in the spray booth and it should be replaced.

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Y GBI 1 3 **BG-A17 Replace Bag Insulation** **\$1,500**
 There are several spots in the main bays that appear to be roof leaks. Remove damaged bag insulation and inspect for roof leaks. Repair if any are found and provide new bag insulation.



Y GBI 1 3 **BG-A18 Replace Handrails on the Mezzanine** **\$4,500**
 The handrails on the mezzanine have reached the end of their useful life and should all be replaced.



Y GBI 1 3 **BG-A19 Replace Ceiling in the Mezzanine** **\$10,000**
 In both the Meeting Room and Lounge located on the Mezzanine, the ceiling has reached the end of its useful life and should be considered for replacement.

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Y GBI 1 3 **BG-A20 Provide Fire Caulking Around Pipes** **\$500**
 Exposed piping located in the corridor by the Storage and Mechanical Rooms needs to be caulked for fire rating.



Y GBI 1 3 **BG-A21 Paint Column Bases** **\$3,000**
 Some of the column bases in the repair bays are showing signs of surface rust. The bases of the columns should be cleaned and painted to prevent further deterioration.



Y GBI 1 3 **BG-A22 Concrete Slab Pitting** **\$1,500**
 There are some areas of concrete pitting in the repair bay slab on grade. This should be fixed with an appropriate Sika repair material.



GBE **IV-BG-GENERAL BUILDING RENOVATIONS-EXTERIOR**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

Y GBE 1 2 **BG-A23 Replace Bottom Metal Siding with Masonry** **\$7,000**
 The bottom section of the wall is covered with metal siding that is corroded and heavily deteriorated. Replace lower section of metal with masonry.



Y GBE 1 2 **BG-A24 Galvanize and Paint Exterior Overhead Door Jambs** **\$1,500**
 Overhead door jambs are deteriorated. Recommend preping, galvanizing, and painting all overhead door jambs on site. Also add corner guards to all jambs to prevent further damage or deterioration.



Y GBE 1 3 **BG-A25 Update Exterior Doors** **\$3,000**
Some exterior doors have reached the end of their useful life or need to be updated. Quantity: (1) single door.



Y GBE 1 2 **BG-A26 Replace Damaged Metal Paneling** **\$1,500**
Many of the metal siding panels are corroded or deteriorated and should be replaced.

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Y GBE 1 2 **BG-A27 Roof Replacement** **\$324,000**
The roof of the original portion of the building is out of warranty and should be considered for replacement. Approx. 18,000 SF

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Y GBE 1 2 **BG-A28 Spalling Concrete at Exterior Peirs** **\$2,500**
Some of the exterior concrete peirs are spalling. Loose concrete should be removed and surface repairs with a concrete patch such as Sika Repair 223 (for vertical or horizontal surfaces) should be used to prevent further deterioration.



Y GBE 1 3 **BG-A29 Replace Damaged Downspout** **\$750**
The downspout located behind the spray booth is damaged and needs replacement. Other downspouts need slight maintenance as well.



Y GBE 1 2 **BG-A30 Replace Damaged Overhead Door** **\$5,000**
Replace damaged and dented overhead bay doors. Quantity: (1) door.



Y GBE 1 3 **BG-A31 Replace Cracked Concrete Ramps** **\$3,500**
Severl concrete ramps on the east/entrance side of the building are cracked and should be replaced.








Y GBE 1 3 **BG-A32 Clean and Paint Canopy Steel** **\$7,500**
The steel members under the canopy have some surface rust. These members should be cleaned and painted to prevent further deterioration.





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Bus Garage

In Project	Category	Year	Priority	Mechanical Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-BG-HEALTH AND SAFETY</u> BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS		
Y	HS	1	1	BG-M1 Parts Storage Office Ventilation The parts storage office has no form of mechanical ventilation. Provide a new ventilation unit for the space.	\$10,000	
Y	HS	1	3	BG-M2 Maintenance Bay Ventilation There is currently no form of ventilation in the maintenance bay. Provide a new make-up air ventilation system for the maintenance bays.	\$65,000	
Y	HS	1	3	BG-M3 AHU-1 Preventative Maintenance AHU-1 was not running at the time of inspection and the fan access door was open. Service and replace motor if required.	\$1,000	
	GBI			<u>II-BG-GENERAL BUILDING RENOVATIONS</u> RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.		
Y	GBI	1	1	BG-M4 Replace Boiler The boiler has reached the end of its useful and should be replaced. Replacement with a high efficiency condensing unit with new pump and distribution pipnig is recommended.	\$40,000	
Y	GBI	1	3	BG-M5 Compressor Room Ventilation The compressor room was extremely hot. Provide more exhaust and a transfer air opening from the maintenance bays.	\$5,000	



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Bus Garage

In Project	Category	Year	Priority	Electrical Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-BG-HEALTH AND SAFETY</u> BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS		
Y	HS	1	1	BG-E1 Exit Egress Signage The majority of the exit egress signage is unlit or dim and does not clearly identify the egress locations. Replace all exit fixtures with new LED lit fixtures to comply with current life safety code requirements. (estimate 12 locations)	\$2,400	
Y	HS	1	1	BG-E2 Exterior Emergency Egress Lighting Provide NFPA Level 1 compliant exterior emergency egress lighting adjacent to all exterior egress doors to comply with current code requirements.	\$2,100	 I M A G E
Y	HS	1	1	BG-E3 Arc Flash Labeling The current electrical system has not been Arc Flash rated and labeled in accordance with current NEC 70 E code. Provide testing and proper labeling in compliance with current NEC code requirements.	\$6,000	
Y	0	1	m	BG-E4 GFCI Receptacles Receptacles within 6'-0" of a water source are required to be GFCI protected. Replace non-protected receptacles with new GFCI protected device. Identify devices as being "GFCI Protected".	\$150	 I M A G E
	GBI			<u>II-BG-GENERAL BUILDING RENOVATIONS-INTERIOR</u> RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.		
Y	GBI	1	1	BG-E5 T12 Fluorescent Lighting Upgrades Replace the existing obsolete T12 fluorescent lighting still existing in the maintenance areas and elsewhere to provide energy savings and reduced maintenance costs.;	\$3,000	 I M A G E

Y GBI 1 3 **BG-E6 Paint Booth Lighting Upgrades** **\$18,000**

Replace the existing T12 fluorescent and HID lit explosion proof lighting in the paint booth with new LED explosion proof lighting for energy savings.



Y GBI 1 3 **BG-E7 Ceiling Mount Projector** **\$1,100**

The driver training room has a non-code compliant above ceiling receptacle connection. Relocate the above ceiling receptacle into the ceiling grid panel to comply with current code requirements.



Y GBI 1 2 **BG-E8 Electrical Service Entrance Disconnect** **\$3,000**

Recommend replacing original construction 600A Cutler Hammer disconnect switch that is near the end of its expected useful life.



Y GBI 1 2 **BG-E9 Power Distribution Panels** **\$28,000**

Replace obsolete original construction Pushmatic and Cutler Hammer power distribution panels that have exceeded their expected useful lifespan and spare parts are unavailable. Replace with new distribution panels and feeders. (estimate of 7 panels)





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Bus Garage

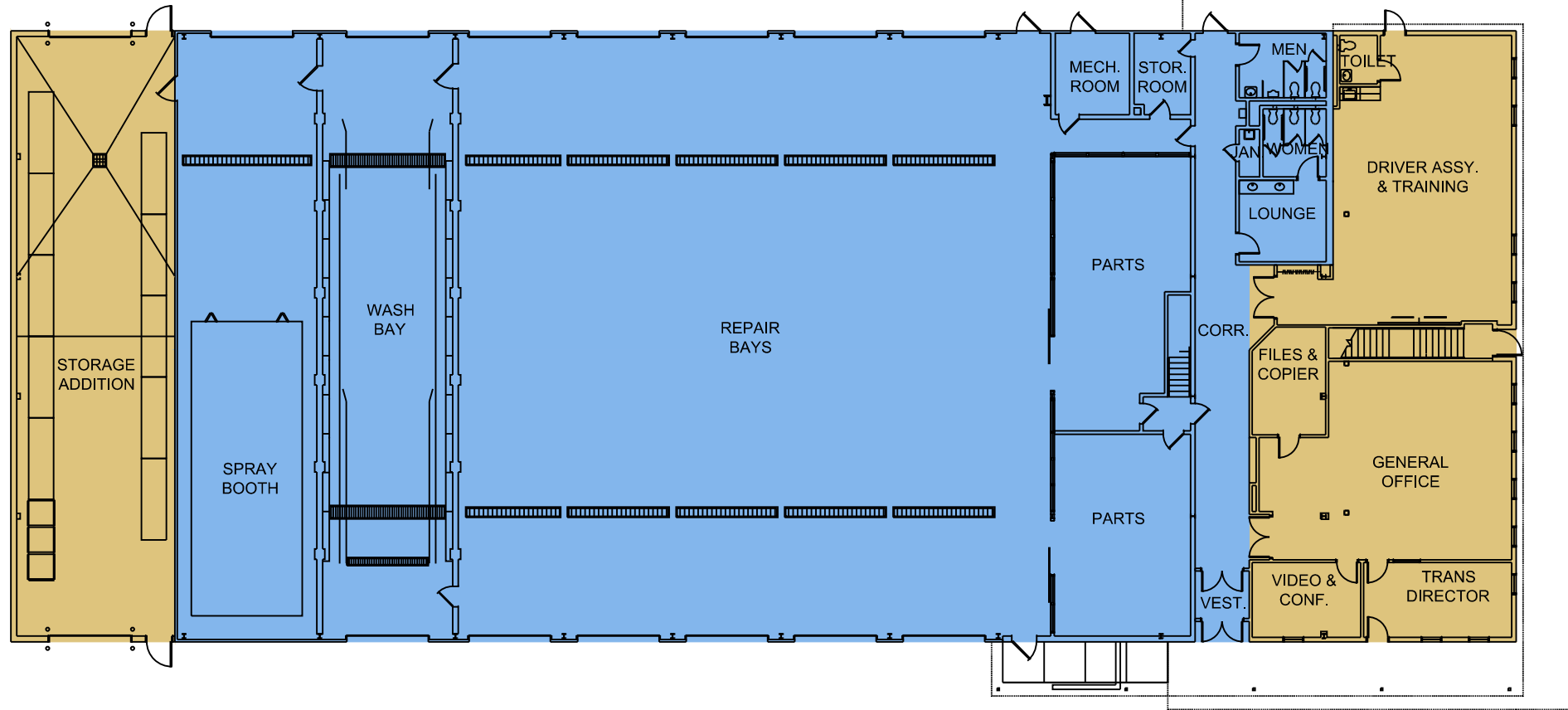
In Project	Category	Year	Priority	Technology Recommendations	Estimate	Thumbnails (if any)
	SBI			<u>I-BG-SMART SCHOOLS BOND INVESTMENT</u> SMART SCHOOLS BOND INVESTMENT PLAN		
Y	SBI	1	1	BG-T1 Network Data Closet Improvements The data cabinet in this building should be upgraded for capacity and some of the data should be upgraded to Cat6 data cabling to improve performance. Data cabling should be placed in proper conduit and raceway. The cabinet will have UPS for uninterrupted power for several minutes after and outage. The link to the high school could be improved by installing cheap optics for the existing Southern Tier network fiber optic cable.	\$6,500	I M A G E
Y	SBI	1	1	BG-T2 Network Electronics Upgrade The network electronics should be upgraded and reconfigured to maximize bandwidth to the end user. The switches should be capable of 10 Gbps connection to the network backbone and share at least 20 Gbps with the other switches in the data room. They should also be sized with proper power supplies so that PoE+ devices can be powered via the switch.	\$8,000	I M A G E
Y	SBI	1	1	BG-T3 Security Video Surveillance Some video surveillance should be added to the bus garage to cover all areas.	\$75,000	I M
Y	SBI	1	1	BG-T4 Upgrade Network Data Cabling The existing building data cabling is in unsatisfactory condition in the office areas. This cabling should be upgraded to Category 6 to comply with current standards.	\$7,500	I M A
Y	SBI	1	1	BG-T5 Wireless Network Infrastructure To account for more widespread use of wireless devices and the need for a flexible wireless network to support student used devices, the wireless network should be upgraded to the most current wireless-AC standard and expand coverage to all classrooms. Capacity should also be considered so the district has the ability to deploy 1-2-3 devices per student.	\$3,000	I M A G E
Y	SBI	1	1	BG-T6 Voice over IP Phone System Included in High School South		I ..

KEY PLANS

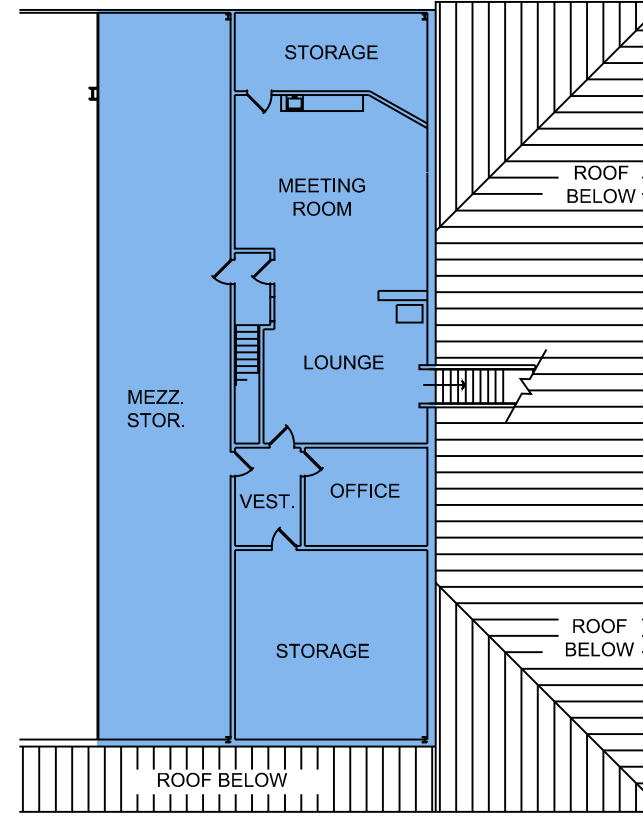
KEY

- 1967
- 2001

1 FIRST FLOOR
NTS



2 SECOND FLOOR
NTS



SYSTEMS DESCRIPTIONS



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Field House

Site Description

GENERAL BUILDING INFORMATION

Fuel Oil: None noted at time of inspection

Potable Water: Potable water is provided by municipal system.

Sanitary: Sanitary sewer conveyance to municipal system.

Electric: Electric is provided by NYSEG

Natural Gas: Natural gas is provided by NYSEG

Stormwater: Stormwater runoff from building and grounds sheet drain lawn areas and adjacent marsh.

Cable/Internet: Unknown at time of inspection.

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

East Parking Lot:

Age- Unknown

Expected remaining useful life- 2 years

Rating- Unsatisfactory

Description: Located to the east of the Field house is a parking lot in poor condition.



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Field House

Mechanical Description

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Domestic Water Systems:

Age- 1965
Expected remaining useful life- 15 Years
Rating- Satisfactory

Description: The water supply is municipal.

Domestic Hot Water:

Age- 2005
Expected remaining useful life- 20 Years
Rating- Satisfactory

Description: The building is served by a high efficiency gas fired tank type water heater.

Sanitary and Storm Systems:

Age- 1965
Expected remaining useful life- 15 Years
Rating- Satisfactory

Description: The sanitary waste from the building empties to municipal systems.

Building Heat/Ventilation

Age- 2005
Expected remaining useful life- 20 Years
Rating- Satisfactory

Description: The building is served by two gas fired air handling units located in the mechanical room.



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Electrical Description

SITE DESCRIPTIONS

State Education Department (Comprehensive Public School Safety Program)

Electrical Service Entrance:

Age- 20 years
Expected remaining useful life- 10 years
Rating- Satisfactory

Description: The electrical service is overhead and enters the building as 120/240 volt service into a newer GE panel.

Emergency Egress Lighting

Age- N/A
Expected remaining useful life- N/A
Rating- N/A

Description: There is not any interior or exterior emergency egress lighting in this building.

Exit Egress Path Signage

Age-
Expected remaining useful life-
Rating- Unsatisfactory

Description: The exit fixtures consist of unlit graphic stickers.

Fire Alarm Systems:

Age- N/A
Expected remaining useful life- N/A
Rating- N/A

Description: No fire alarm system at this building.

General Lighting:

Age- 5 years
Expected remaining useful life- 10 years
Rating- Satisfactory

Description: The majority of the interior lighting is lit with protected T8 fluorescent pendants. The exterior has a combination of LED wallpacks and LED spot lights.



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Field House

Technology Description

Data Network Infrastructure:

Age- NA
Expected remaining useful life- NA
Rating- Unsatisfactory

Description: The field house has no network connection or distribution. There is a wireless bridge connection from the high school to the press box and some wireless coverage at the bleaches but nothing in the field house.

Internet Services:

Age- NA
Expected remaining useful life- NA
Rating- Unsatisfactory

Description: The field house has no internet connection.

Voice Systems:

Age- NA
Expected remaining useful life- NA
Rating- Unsatisfactory

Description: The field house has a single telephone service line into the building with an analog handset.

Wireless Technologies:

Age- NA
Expected remaining useful life- NA
Rating- Unsatisfactory

Description: The field house has no wireless.

Paging Systems:

Age- NA
Expected remaining useful life- NA
Rating- Unsatisfactory

Description: There is no mass notification at the field house. There is a PA system at the exterior fields.

Clock Systems:

Age- NA
Expected remaining useful life- 1-3 Years
Rating- Unsatisfactory

Description: The field house is not controlled by the districts master clock system.

Security Access Control System:

Age- NA
Expected remaining useful life- NA
Rating- Unsatisfactory

Description: There is no access control at the field house.

Video Surveillance:

Age- NA
Expected remaining useful life- NA
Rating- Unsatisfactory

Description: There is no video surveillance at the field house.

RECOMMENDATIONS



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Field House

In Project	Category	Year	Priority	Site Recommendations	Estimate	Thumbnails (if any)
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GSR ***-FH-GENERAL SITE RENOVATIONS***
GENERAL SITE RENOVATIONS



Y GSR 1 1 **FH-L1 Replace Fieldhouse Parking Lot** **\$360,000**
 Asphalt parking and entrance drive is in poor condition and should be replaced to full depth.





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Field House

In Project	Category	Year	Priority	Architectural Recommendations	Estimate	Thumbnails (if any)
	ADA			<p><u>II-FH-PHYSICALLY DISABLED ACCESS (ADA)</u> AMERICANS WITH DISABILITIES ACT (ADA) COUNCIL OF AMERICAN BUILDING OFFICIALS / AMERICAN NATIONAL STANDARDS INSTITUTE (CABO / ANSI)</p>		
Y	ADA	1	3	<p>FH-A1 Update Door Hardware to be Handicap Accessible Aside from doors that have been previously recommended for replacement due to fire rating, many doors throughout the building have door knobs that are not considered to be handicap accessible. These door knobs should be replaced with handicapped accessible lever style locks as outlined by current code. Quantity: (3) door knobs.</p>	\$900	I M A G E
Y	ADA	1	2	<p>FH-A2 Update Toilet Room to be Handicap Accessible The toilet room off of the Coaches Room is not handicap accessible due to the lack of clearances, grab bars, appropriate toilet and sink fixtures and/or lever style faucets. Some of these toilet rooms also do not have compliant ADA signage. Updating this toilet room in accordance with current code should be considered.</p>	\$15,000	 I M A G E
Y	ADA	1	2	<p>FH-A3 Update Locker Rooms to be Handicap Accessible The toilet and shower areas of these locker rooms are not designed for handicap accessibility, and the finishes of the toilet and shower areas are in poor condition. These areas should be updated as outlined by current code and provided with new finishes.</p>	\$140,000	I M A G E
	GBI			<p><u>III-FH-GENERAL BUILDING RENOVATIONS-INTERIOR</u> RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.</p>		
Y	GBI	1	2	<p>FH-A4 Update Public Restroom Fixtures The existing public bathrooms have reached the end of their useful life and should be considered for replacement. Some fixtures that are recommended to be replaced are partitions, urinals, toilets, sinks, ect.</p>	\$40,000	

Y GBI 1 3 **FH-A5 Interior Doors Lacking Hardware**
 There are interior doors that are lacking hardware, all located in the Training Room. Quantity (3).

\$900



Y GBI 1 3 **FH-A6 Update Public Restroom Windows**
 The existing windows in the two public bathrooms are deteriorated and have reached the end of their useful life. The windows should be considered for replacement

\$2,000



GBE **IV-FH-GENERAL BUILDING RENOVATIONS-EXTERIOR**
RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.

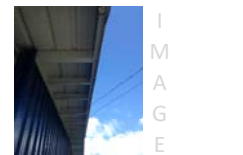
Y GBE 1 2 **FH-A7 Replace Exterior Metal Panneling System**
 The blue metal panneling system that covers the entire building has come to the end of its useful life and should be replaced.

\$30,000



Y GBE 1 2 **FH-A8 Paint Existing Structure**
 The existing structure is showing signs of rust and deterioration. Recommend cleaning and painting the existing structure to prevent further damage.

\$7,500



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Y GBE 1 2 **FH-A9 Replace/Repair Roof Edge**
 Much of the roof edge is showing signs of rust and deterioration as well as damage to the corners. Recommend replacing the roof edge or repairing all damaged and rusted sections.

\$1,500



Y GBE 1 2 **FH-A10 Roof Replacment**
 The exposed fastener metal panel roof has reached the end of its useful life and should be considered for replacment. Approx. 4,500 SF

\$81,000

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Y GBE 1 2 **FH-A11 Replace Deteriorated Exterior Doors/Frames**
 Several exterior doors are deteriorated and should be replaced. Quantity (4) exterior doors

\$12,000



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Y GBE 1 3 **FH-A12 Add Signage to Exterior**
 Bathrooms and entrances are currently poorly marked. Signage should be added to the exterior of the builidng.

\$1,200



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Y GBE 1 3 **FH-A13 Screen Wall Frame Painting**

The steel tube frame of the screen walls have corrosion around the base. These members should be cleaned and painted to prevent further deterioration.

\$2,500





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Field House

In Project	Category	Year	Priority	Mechanical Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-FH-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i>		
Y	HS	1	1	FH-M1 Increase Ventilation Rate The district complains of an inability to remove unpleasant smells from the space. This condition points toward inadequate ventilation. All equipment serving the space should be evaluated to ensure that it is operating as the design intended. Furthermore, outside air and exhaust ventilation rates should be increased to evacuate an adequate amount of air to eliminate smells.	\$20,000	I M A G E



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Field House

In Project	Category	Year	Priority	Electrical Recommendations	Estimate	Thumbnails (if any)
	HS			<u>I-FH-HEALTH AND SAFETY</u> <i>BUILDING CODE OF NEW YORK STATE STATE EDUCATION DEPARTMENT (SED MANUAL OF PLANNING STANDARDS), COMMISSIONER OF EDUCATION REGULATIONS SECT 155.3; APPLICABLE TO EXISTING BUILDINGS</i>		
Y	HS	1	3	FH-E1 GFCI Receptacles Receptacles within 6'0" of a water source are required to be GFCI protected. Replace unprotected receptace at water cooler with new GFCI protected receptacle.	\$150	 I M A G E
Y	HS	1	1	FH-E2 Emergency Egress Lighting Provide interior emergency egress lighting on the interior and exterior of the facility to comply with current life safety code requirements.	\$1,200	 I M A G E
Y	HS	1	1	FH-E3 Exit Egress Path Signage Replace unlit graphic exit stickers with LED lit exit signage to clearly identify the exit egress locations.	\$800	
	GBI			<u>II-FH-GENERAL BUILDING RENOVATIONS-INTERIOR</u> <i>RECOMMENDED RENOVATIONS TO UPDATE THE BUILDING TO MEET CURRENT STANDARDS AND NEEDS.</i>		
Y	GBI	1	3	FH-E4 Electrical Service Entrance Relocate the existing overhead electrical service to an underground service entrance.	\$5,000	I M A G E



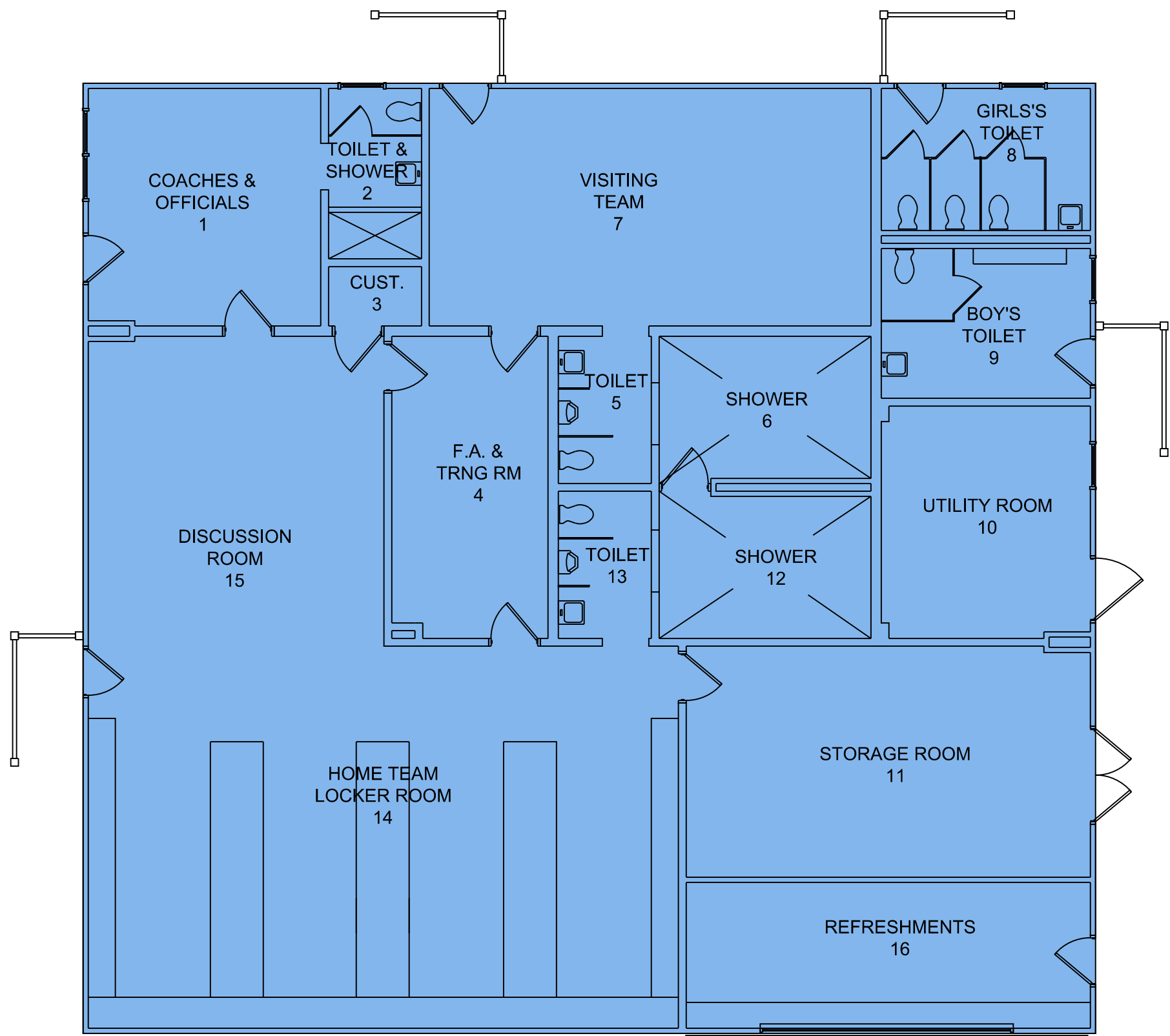
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Field House

In Project	Category	Year	Priority	Technology Recommendations	Estimate	Thumbnails (if any)
	SBI			<u>I-FH-SMART SCHOOLS BOND INVESTMENT</u> SMART SCHOOLS BOND INVESTMENT PLAN		
Y	SBI	1	1	FH-T1 Network Data Connection Network connectivity should be extended to the field house for devices like phones, paging and security cameras. This could be done using an aggregated wireless point to point connection depending on the determined usage and location of any potential video recording servers.	\$15,000	I M A G E
Y	SBI	1	1	FH-T2 Network Data Cabinet A network data cabinet should be installed to house data connections, network switches and other network appliances. There should be a Uninterruptable Power Supply (UPS) to keep PoE devices that require it. If servers are needed to record video, cooling should be addressed.	\$6,500	I M A G E
Y	SBI	1	1	FH-T3 Security Video Surveillance Some video surveillance should be added to the field house at strategic locations on the fields and bleachers.	\$12,000	I M A G E
Y	SBI	1	1	FH-T4 Wireless Network Infrastructure Wireless coverage should be upgraded at the fields and field house to account for device usage as well as recording and broadcasting use. There is currently coverage but it could be improved if more robust infrastructure to the field house was in place	\$3,000	I M A G E
Y	SBI	1	1	FH-T5 Voice over IP Phone System VoIP phones should be installed at strategic locations around the field house for use in the case of emergencies.	\$5,000	I M A G E



KEY PLANS



KEY

■ 1965

FIELD HOUSE

FLOOR PLAN HORSEHEADS CENTRAL SCHOOL DISTRICT



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