

Spaulding High School Central Vermont Career Center Barre City Elementary and Middle School Barre Town Middle and Elementary School

Chris Hennessey, M.Ed. Superintendent of Schools

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Website: www.buusd.org

MEMORANDUM

TO: Barre Unified Union School District Special Facilities and Transportation Committee

Giuliano Cecchinelli II - Chair, Terry Reil, Sarah Pregent, Andy McMichael, Mary Jane

Ainsworth

DATE: November 30, 2023

RE: Barre Unified Union School District Facilities and Transportation Committee Meeting

December 4, 2023 @ 6:00 p.m.

In-Person: Spaulding High School Library, 155 Ayers St., Barre

Remote: Meeting ID: meet.google.com/yva-xiqt-dmj

Phone Number: (US)+1 240-292-8164 PIN: 644 880 341#

Please Note: If you attend the meeting remotely you must state your name for the record to satisfy the Open Meeting Law

AGENDA

- 1. Call to Order
- 2. Organize (appoint vice chair)
- 3. Additions/Changes to Agenda
- 4. Public Comment
- 5. Review/Approval of Meeting Minutes
 - 5.1. Approval of Minutes Regular Meeting November 6, 2023
- 6. New Business
 - 6.1. Facilities Director Report
 - 6.2. 5-year Capital Plan Draft
 - 6.3. Building Assessment Reports
- 7. Old Business
 - 7.1. EEI Update
 - 7.2. Update on Storm Water Mitigation Projects
- 8. Items for Future Agenda
- 9. Next Meeting Date: January 8, 2024 at 6:00 pm, SHS Library and via Google Meet.
- 10. Adjournment

Parking Lot of Future Items

- A. Presentations by Building Maintenance Leads [Added: Mr. Riel July 2023]
- B. Athletic Facilities Consultant Information Gathering [Added: Mr. Reil April 2023]
- C. Transportation to SHS from Out of District/Sending Schools Discussion [Added: Feb 2023]
- D. Transportation SEA Building [Added: Feb 2023]
- E. Transportation SHS Student [Added: Feb 2023 (Luke)]
- F. General Transportation Discussion (SHS, SEA, Out of District, etc.) [Added: Feb 2023]
- G. Storm Water Run-Off Mitigation Update (ongoing) [Added: Feb 2023]
- H. Building Visionary Lists known needs or "to do's" at each building From Maintenance Leads Next 6 Month Schedule of anticipated/planned work in each building.(ongoing) [Reil 11/14/22]
- I. Crisis Response Plan [Added by Committee Aug. 2023]

BOARD/COMMITTEE MEETING NORMS

- Keep the best interest of the school and children in mind, while balancing the needs of the taxpayers
- Make decisions based on clear information
- Honor the board's decisions
- Keep meetings short and on time
- Stick to the agenda
- Keep remarks short and to the point
- Everyone gets a chance to talk before people take a second turn
- Respect others and their ideas

DRAFT

BARRE UNIFIED UNION SCHOOL DISTRICT FACILITIES AND TRANSPORTATION COMMITTEE MEETING

Spaulding High School Library and Via Video Conference – Google Meet November 6, 2023 - 6:00 p.m.

MINUTES

COMMITTEE MEMBERS PRESENT:

Giuliano Cecchinelli, II, Chair – (BC) Mary Jane Ainsworth (BT Community Member) Andrew McMichael (BC Community Member) Terry Reil, - (BT)

COMMITTEE MEMBERS ABSENT:

Vacant Position - (BC)

OTHER BOARD MEMBERS PRESENT:

Nancy Leclerc Paul Malone

ADMINISTRATORS PRESENT:

Chris Hennessey, Superintendent Jamie Evans, Facilities Director

GUESTS PRESENT:

Sarah Helman

1. Call to Order

The Chair, Mr. Cecchinelli, called the Monday, November 6, 2023 BUUSD Facilities and Transportation Committee meeting to order at 6:00 p.m., which was held in the Spaulding High School Library and via video conference.

2. Additions and/or Deletions to the Agenda

Add 6.1 Update on Storm Water Cost Estimate

Add 6.2 Update on 5-Year Capital Plan

Add 5.3 Update on AOE Building Assessment Reports

On a motion by Mr. Reil, seconded by Ms. Ainsworth, the Committee unanimously voted to approve the Agenda as amended.

3. Public Comment

None.

4. Approval of Minutes

4.1 Approval of Minutes – October 2, 2023 BUUSD Facilities and Transportation Committee Meeting On a motion by Mr. Reil, seconded by Ms. Ainsworth, the Committee unanimously voted to approve the Minutes of the October 2, 2023 BUUSD Facilities and Transportation Committee meeting.

5. New Business

5.1 Transportation Discussion

Mr. Hennessey advised that he and administrators will be meeting with Stacy Emerson (STA) and will be putting together an audit of transportation needs (including; ridership, Suburban use, use of personal vehicles and use of outside services for outplacement). The purpose is to get a handle on the transportation needs of the District and identify efficiencies. Discussion will also include the current structure of using one Transportation Coordinator for both BCEMS and BTMES, which is showing to be much more work than anticipated. Ms. Emerson and principals will present at the January 24, 2024 meeting. Additional discussion included; current use of Suburbans, transportation for SEA students (transportation requirements vs transportation the District would like to provide), the impact transportation has on attendance for SEA students, transportation regulations (legal and insurance related), confirmation that routing efficiencies will be studied, budgeting for FY25 (transportation has been over budget the past 2 years), a query regarding a written plan for planned research, and confirmation that there are no documents for presentation this evening (relating to transportation and air conditioning). Discussion this evening is informational only; to provide an update on planned work.

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5.2 BCEMS and BTMES Air Conditioning

Mr. Evans advised this agenda item is in response to queries regarding air conditioning for BCEMS and BTMES, as the District is currently installing AC in a portion of SHS. It was clarified that AC at SHS is actually installation of dehumidification units (smaller scale than traditional AC). Addition of air conditioning for BCEMS and BTMES is a 'big ask', and is something to be discussed further down the road. There are no current plans (at least for the current fiscal year), to seriously discuss and research AC at the elementary/middle schools. Mr. Evans noted that healthy discussion will need to be held prior to considering budgetary considerations (nothing will be done in the FY25 budget). It was confirmed that the majority of BTMES is currently air conditioned (exceptions being; cafeteria, gymnasium, and multi-purpose rooms). BCEMS has never had air conditioning. It was reiterated that this is a very early point of discussion and this item should be added to the Parking Lot for future discussion. AC for BCEMS and BTMES is not currently in the 5-Year Plan and most likely won't be until healthy discussion has been held. Ms. Ainsworth suggested that a plan be created to map out what needs to be done to perform an analysis of this item. Mr. Evans recommends finishing the project at SHS and then 'see' what was learned from that project. Work being performed at SHS is classified as dehumidification, which is the same as air conditioning, but on a smaller scale. BCEMS does have a centralized duct work system, which might be conducive to installation of air conditioning. Mr. Malone noted that the work at SHS was ESSER funded, and if AC work is performed at other schools, it might have to be performed over multiple years (for budgetary considerations). Mr. Reil believes it's important to note that though someone from BTMES attended a meeting and expressed concerns over AC, BTMES does have air conditioning and it was in the process of being upgraded and improved (it didn't fail). It was suggested that a feasibility study be performed (over the entire District). Additional discussion included maintenance and replacement of rooftop units at BTMES, and acknowledgement that monies are usually budgeted for routine maintenance and replacement of AC units at BTMES.

5.3 Update on AOE Building Assessment Reports

Mr. Evans advised that the District received four Building Assessment Reports (one for each school and Central Office). Those performing the audit spent approximately one week at each building and everything was reviewed. The reports are quite extensive. Mr. Evans attended a webinar that assists with explaining/understanding the reports. Individuals from AOE were also present at the webinar. Mr. Evans advised that a cursory review of the reports does not raise any red flags or identify any immediate needs. Mr. Evans advised that most areas were ranked as good or fair. Fair is defined as operating at today's standards and in good shape. Life expectancy is also part of the report. The SEA building was not audited due to its relatively new age. Mr. Malone requested a copy of the reports (for his examination). It is not known if construction costs are included in the report. Administrators will be taking a more in-depth look at the reports and they will be shared with the entire Board.

6. Old Business

6.1 Update on Storm Water Cost Estimate

Mr. Evans reported that the report was shared by the vendor shortly after the last meeting, and Mr. Evans forwarded the information on to Committee Members. Mr. Evans will resend the documentation. Mr. Evans advised that permits are in hand for BCEMS and BTMES, and the SHS permit application is currently under review. Given the status of the permits, the District is allowed to apply for Phase 2 construction funding. All funding applications have been submitted and results are expected in mid-December. It is currently believed that funding will be provided at 90%, with the District responsible for 10% of costs. If additional information becomes available, it will be shared at the next meeting. Mr. Cecchinelli advised that while driving through Boynton Street, he noticed that it appears that one of the daylight pipes (for water), has been knocked out. Mr. Cecchinelli advised Mr. Evans of the pipe location so that he may investigate.

6.2 Update on 5-Year Capital Plan

Mr. Evans reported that he and the Business Office have been updating the Plan and it is now much more robust. Prior year expenses have been added to the Plan. Mr. Evans would like to incorporate the Assessment Reports into the Plan (after reports have been thoroughly reviewed). Mr. Evans would prefer to enter additional information prior to posting the Plan on-line. Mr. Hennessey noted that it has been helpful for Mr. Malone and Mrs. Spaulding to provide input as part of the budget process. Mr. Evans advised that the 5-Year Plan is always a work in progress and items change based on various circumstances and variables.

Mr. Evans will share with Committee Members (via email), the Facilities Directors Report and the Opinion of Probable Costs for the SHS Storm Water Remediation Project.

7. Items for Future Agendas

- Facilities Director Report
- 5-Year Capital Plan Draft
- AOE Building Assessments (TBD)
- EEI Update
- Updates on Storm Water Mitigation Projects (Including Funding)

8. Next Meeting Date

The next meeting is Monday, December 4, 2023 at 6:00 p.m., at the Spaulding High School Library and via video conference.

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The January 1, 2024 meeting is cancelled.

The January meeting will be held on Monday, January 8, 2024 at 6:00 p.m., at the Spaulding High School Library and via video conference.

9. Adjournment

On a motion by Mr. Reil, seconded by Ms. Ainsworth, the Committee unanimously voted to adjourn at 6:57 p.m.

Respectfully submitted, *Andrea Poulin*

Barre Unified Union School District Five-year Capital Improvement Budget - DRAFT FY 2022-2023 through FY 2028 - 2029

Project Description	Building		Actual 2022-2023	Budget FY 2023-2024	F	Actual Y 2023-2024		1dget 024-2025	Budget FY 2025-2026	Budget FY 2026-20	27	Budget FY 2027-2028		dget 28-2029
Classroom Floor Tiles	BCEMS	s	18,700		s	13,706		15,000	\$ 15,000		000			
Victaulic Fitting Replacement	BCEMS	s	29,569		S	27,116		25,000	\$ 25,000		_	\$ 25,000	\$	25,000
Bus Loop Paving	BCEMS	s	14,908		-									
Student Restroom Renovation	BCEMS	s	9,773				s	10,000	\$ 10,000	S 10.	000			
Exterior Door Replacement	BCEMS				s	36,368	S	20,000	\$ 20,000					-
Gym Floor Complete Refinishing	BCEMS				\$	13,560								
Continuation of Roof Replacement	BCEMS							TBD	TBD					
Paving Project	BCEMS									\$400,000	est.			
Classroom Floor Tiles Project	BTMES	s	56,245	\$ 15,000	\$	16,856	S	15,000	\$ 30,000	\$ 30,	000	\$ 30,000	\$	30,000
Basketball Backboard Upgrade	BTMES	s	23,850											
Rooftop AC Unit Replacement	BTMES	s	25,000		s	11,952	S	30,000	\$ 30,000	\$ 30,	000	\$ 30,000	\$	30,000
Student Restroom Renovation	BTMES	s	19,502											
Interior Classroom Doors	BTMES			\$ 15,000	\$	-	S	15,000	\$ 15,000					
Exterior Door Replacement	BTMES						\$	20,000	\$ 20,000	S 20,	000	\$ 20,000	\$	20,000
New Air Conditioning Installation	CENTRAL OFFICE	s	13,755											
Roof Replacement	CENTRAL OFFICE							TBD	TBD					
Electrical Service SEA Barn	SEA	s	21,733											
Asphalt Paving Barn/Parking Lot	SEA	s	17,910											
SEA Barn Project	SEA							TBD	TBD					
Addition-Phase 2, 10,000 sq./ft	SEA							TBD						
Classroom Floor Tiles	SHS	s	37,312	\$ 20,000	\$	21,844	S	45,000	\$ 20,000	S 20,	000			
Victaulic Fitting Replacement	SHS	s	19,663				S	25,000	\$ 20,000	\$ 20,	000			
New Front Entry Doors	SHS	s	16,755											
Exterior Gym Door Replacement	SHS				\$	20,625								
Girls Locker Room Storage	SHS				\$	21,315								
Interior Entry Gym Doors	SHS				325053883		S	13,400						
Interior Band Hallway Doors	SHS						S	20,000						
Asbestos Ceiling Tiles	SHS				\$	119,350								
**Ballfield Renovation	SHS													
**Auditorium Renovation	SHS													
Storm Water (Majority paid for by Grant Funds - timing is TBD next 5 yrs)	SHS								\$215,000 est					
Storm Water (Majority paid for by Grant Funds - timing is TBD next 5 yrs)	BCEMS								\$471,000 est.					
Storm Water (Majority paid for by Grant Funds - timing is TBD next 5 yrs)	BTMES):						\$215,000 est.					
Wrestling Room Ventilation	SHS						TBD							
Wireless clocks throughout building	SHS						TBD	2	TBD	TBD				P
Classroom Doors Card Access	SHS/BTMES/BCEMS						TBD		TBD	TBD		TBD	TBD	
Chalkboard removal (Asbestos)	SHS		7		11.2		TBD		TBD	TBD		TBD	TBD	
Auditorium Lobby Entry Doors	SHS					A let al	TBD		TBD	TBD		TBD	TBD	V
Window Blinds	SHS					9 . 6.4 4	TBD		TBD	TBD		TBD	TBD	

Communal Bathrooms	SHS					TBD	TBD		TBD	TBD	TBD
Playground Equipment Replacement	BCEMS			M 1		\$ 100,000	\$ 1	00,000	leii		
Playground Equipment Replacement	BTMES					\$ 100,000	\$ 1	00,000			
Chalkboard Removal (Asbestos)	BTMES					TBD	TBD		TBD	TBD	TBD
ECO Outdoor Space - Fenced In Area	BCEMS					TBD	TBD				
Playground Storage	BCEMS				- 13	TBD	TBD				
Stage Sound System	BTMES					\$ 75,000					
Fencing Around Playground Area	BTMES					TBD	TBD		TBD	TBD	TBD
Science Lab Room 200 Renovation	BTMES					TBD	TBD				
Bus Loop Paving	BTMES						TBD		TBD		
Roof Penthouse Encapsulation	BTMES					\$ 30,000					
Rain Gutters on Woodchip Building	BTMES					TBD					
Central AC Equipment (40 Ton Units)	BTMES					TBD	TBD		TBD	TBD	TBD
Locker Room Renovations (Boys & Girls)	BTMES					TBD	TBD		TBD	TBD	TBD
Parking Lot Expansion	SEA					TBD	TBD		TBD	TBD	TBD
Building Expansion	SEA					TBD	TBD		TBD	TBD	TBD
Gym Roof Replacement	SHS					TBD	TBD		TBD	TBD	TBD
Woodchip Building Roof Replacement	SHS					TBD	TBD		TBD	TBD	TBD
CAPITAL RESERVE											
BT Roofing	BTMES	S	192,314								
SHS Lighting	SHS	S	289,756		\$ 212,574						
BC Roofing	BCEMS				\$ 387,389	\$386,200 + skylights					
Asbestos Ceiling Tiles	SHS				\$ 375,780						
Truck w/Plow-Buy out lease	BCEMS				\$ 15,117						
ARP ESSER FUNDING											
HVAC/Sprinkler	SHS	S	1,936,322								
Total Capital Improvement Project Budgets	L				\$ 1,293,552	\$ 558,400	\$ 4	05,000	\$ 170,00	0 \$ 105,00	0 \$ 10

FACILITY CONDITION ASSESSMENT



prepared for

Vermont Agency of Education_FCA Phase Two 1 National Life Drive, Davis 5 Montpelier, VT 05620-2501



PREPARED BY:

Bureau Veritas 6021 University Blvd., Suite 200 Ellicott City, MD 21043 800.733.0660 www.us.bureauveritas.com

BV PROJECT #:

158982.22R000-023.379

DATE OF REPORT: August 23, 2023

ON SITE DATE:

July 17, 2023

BARRE UNIFIED UNION SD - Main Building (U097-SU061) 120 Ayers Street Barre VT,05641

Bureau Veritas

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1. Executive Summary

Property Overview and Assessment Details

General Information	
Property Type	Administration Building
School ID Number	U097-SU061
Main Address	120 Ayers Street, Barre VT,05641
E911 Address Verification	05641-4304, Standardized, Fixed abbreviations, Matched Street and city and state, Confirmed entire address
GPS Location (Verified E911)	Main Building 44.19062, -72.4936
Site Developed	1900
Site Area	.55 acres (estimated)
Parking Spaces	19 total spaces all in open lots; 1 of which are accessible
Building Square Footage	6,200 (Verified)
Number of Stories	2 above grade
Supervisory Union/ District	Barre Unified Union SD
Date(s) of Visit	July 17, 2023

Note: (Verified) in Square Foot signifies that the square footage of the facility has been verified to be accurate.

Significant/Systemic Findings and Deficiencies

Historical Summary

The Barre Unified Union SD building was constructed in 1900. It has been renovated since its construction to turn it into office space.

Architectural

The building is a brick construction. The roof is constructed out of asphalt shingles. The windows are aluminum and vinyl in construction. The interior finishes have been regularly replaced over the years as budgeting allowed and needs required. Typical lifecycle interior finish, exterior finish, and roof replacements are budgeted and anticipated.

Mechanical, Electrical, Plumbing and Fire (MEPF)

Heating for the building is provided by two boilers located in the boiler room. Baseboard radiators are located throughout the building and are fed by 2 heating water pumps. These pumps did not have VFDs. The electrical service feeds a panel located in the boiler room that was installed in 1995. The rest of the electrical system was renovated at the same time. There are smaller distribution panels throughout the building. The interior lighting consists of mainly linear fluorescent bulbs but there are a very limited number of LED replacements installed. Most of the electrical service equipment and systems are well maintained and should be replaced during normal life expectancy. In general, the plumbing systems are adequate to serve the facilities, with equipment and fixtures to be updated as needed. The domestic water service within the facilities consists of an electric heater. Lifecycle replacement of the domestic water and sanitary sewer systems is not anticipated. No major issues were observed or reported. Fire protection system consists of a hard-wired fire alarm system and a wet-type fire sprinkler system. The sprinkler system is throughout the building. The alarm system consists of strobes, pull stations, illuminated exit signs, emergency lighting and other modern life safety devices.

Site

The property has a parking lot to the left side of the building. The current main entrance is also on the left side of the building.

Recommended Additional Studies

No additional studies recommended at this time.



Facility Condition Index (FCI)

One of the major goals of the FCA is to calculate each building's Facility Condition Index (FCI), which provides a theoretical objective indication of a building's overall condition. By definition, the FCI is defined as the ratio of the cost of current needs divided by current replacement value (CRV) of the facility. The chart below presents the industry standard ranges and cut-off points.

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FCI Ranges and	FCI Ranges and Descriptions					
0 – 5% In new or well-maintained condition, with little or no visual evidence of wear or deficiencies						
5 – 10%	Subjected to wear but is still in a serviceable and functioning condition.					
10 – 30%	Subjected to hard or long-term wear. Nearing the end of its useful or serviceable life.					
30% and above	Has reached the end of its useful or serviceable life. Renewal is now necessary.					

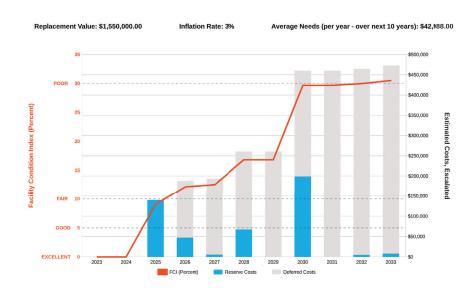
The deficiencies and lifecycle need identified in this assessment provide the basis for a portfolio-wide capital improvement funding strategy. In addition to the current FCI, extended FCI's have been developed to provide owners the intelligence needed to plan and budget for the "keep-up costs" for their facilities. As such the 3-year, 5-year, and 10-year FCI's are calculated by dividing the anticipated needs of those respective time periods by current replacement value. As a final point, the FCI's ultimately provide more value when used to relatively compare facilities across a portfolio instead of being over-analyzed and scrutinized as stand-alone values. The table below summarizes the individual findings for this FCA:

FCI Analysis			
Replacement Value	Total SF	(Cost/SF
\$1,550,000	6,200		\$250
Current FCI		\$0	0.0%
3-Year		\$187,900	12.1%
5-Year		\$261,000	16.8%
10-Year		\$472,900	30.5%

Facility Level FCI:

The orange line in the graph below forecasts what would happen to the FCI (left Y axis) over time, assuming zero capital expenditures. The capital expenditures allocated for each year (blue bars) are associated with the dollar amounts along the right Y axis. If the school expends the average amount per year to maintain and replace systems, they will not incur the capital debt represented by the gray bars.

Needs by Year with Unaddressed FCI Over Time







5

The above graph is a visual representation of the information contained in the table below.

Year	Reserve	Reserve Escalation	Recurrence	Recurrence Escalation	Total Escalation	Deferred	FCI
2023	0	0	0	0	0	0	0
2024	0	0	0	0	0	0	0
2025	132,162	8,049	0	0	8,049	140,211	0.09
2026	43,584	4,041	0	0	4,041	187,836	0.12
2027	5,200	653	0	0	653	193,689	0.12
2028	58,000	9,238	0	0	9,238	260,927	0.17
2029	0	0	0	0	0	260,927	0.17
2030	156,600	35,998	5,175	1,190	37,188	453,525	0.29
2031	0	0	0	0	0	453,525	0.29
2032	3,680	1,122	0	0	1,122	458,327	0.3
2033	6,100	2,098	0	0	2,098	466,525	0.3
2034	6,650	2,555	0	0	2,555	475,730	0.31
2035	157,450	67,036	34,625	14,742	81,778	700,216	0.45
2036	0	0	15,000	7,028	7,028	700,216	0.45
2037	4,800	2,460	0	0	2,460	707,476	0.46
2038	0	0	0	0	0	707,476	0.46
2039	0	0	0	0	0	707,476	0.46
2040	76,810	50,145	52,962	34,576	84,721	834,431	0.54
2041	0	0	12,600	8,851	8,851	834,431	0.54
2042	0	0	1,500	1,130	1,130	834,431	0.54

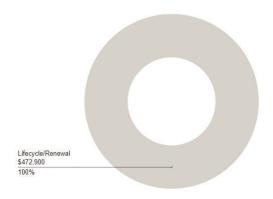
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Plan Types

Each line item in the cost database is assigned a Plan Type, which is the primary reason or rationale for the recommended replacement, repair, or other corrective action. This is the "why" part of the equation. A cost or line item may commonly have more than one applicable Plan Type; however, only one Plan Type will be assigned based on the "best" fit, typically the one with the greatest significance. Each of the Key Findings identified below are assigned a Plan Type.

Plan Type Descriptions							
Safety	•	An observed or reported unsafe condition that if left unaddressed could result in injury; a system or component that presents potential liability risk.					
Performance/Integrity	•	Component or system has failed, is almost failing, performs unreliably, does not perform as intended, and/or poses risk to overall system stability.					
Accessibility	•	Does not meet ADA, UFAS, Safety and/or other handicap accessibility requirements.					
Environmental	•	Improvements to air or water quality, including removal of hazardous materials from the building or site.					
Retrofit/Adaptation		Components, systems, or spaces recommended for upgrades in in order to meet current standards, facility usage, or client/occupant needs.					
Lifecycle/Renewal	-	Any component or system that is not currently deficient or problematic but for which future replacement or repair is anticipated and budgeted.					

Plan Type Distribution (by Cost)



10-YEAR TOTAL: \$472,900



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BARRE UNIFIED UNION SD - MAIN BUILDING

BUREAU VERITAS PROJECT: 158982.22R000-023.379

BARRE UNIFIED UNION SD - MAIN BUILDING

BUREAU VERITAS PROJECT: 158982.22R000-023.379

Immediate Needs

ID	Location Description	UF Code	Description	Condition	Plan Type	Cost
Total (0 items)	N/A	N/A	N/A	N/A	N/A	\$0
					Total	ŚO

Key Findings

No key findings for this location.



2. Building and Site Information





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System Summary		
System	Description	Condition
Structure	Masonry bearing walls with wood roof deck supported by wood joists and concrete strip/wall footing foundation system.	Fair
Facade	Wall Finish: Brick Windows: Aluminum and Vinyl	Fair
Roof	Hip construction with asphalt shingles.	Fair
Interiors	Walls: Painted gypsum board and lath & plaster Floors: Carpet, VCT, ceramic tile, wood strip, coated concrete Ceilings: Painted gypsum board and ACT	Fair
Elevators	None	N/A
Plumbing	Distribution: Copper supply and cast-iron waste & venting Hot Water: Electric water heaters with integral tanks Fixtures: Toilets, urinals, and sinks in all restrooms	Fair
HVAC	Central System: Boilers, air handlers, feeding hydronic baseboard radiators and cabinet terminal units. Supplemental components: Split-system heat pumps.	Fair
Safety and Security	Cameras, card readers, perimeter intrusion detection, security windows and doors, fencing, lighting, traffic gates. Multiple points of auto locking doors, main entry monitored, auto locking doors, internal locking on classroom doors, complete intercom system	Fair
Fire Suppression	Wet-pipe sprinkler system and fire extinguishers	Fair
Electrical	Source & Distribution: Main panel with copper wiring Interior Lighting: LED and linear fluorescent Emergency Power: None	Fair

at va	
BUREAU VERITAS	

Fire Alarm	Alarm panel with smoke detectors, heat detectors, alarms, strobes, pull stations, back-up emergency lights, and exit signs.	Fair
Equipment/Special	None	N/A
Site Pavement	Asphalt lots with limited areas of concrete aprons and pavement and adjacent concrete sidewalks, curbs, ramps, and stairs	Good
Site Development	Building-mounted signage; chain link fencing. Limited Park benches, picnic tables, trash receptacles	Fair
Landscaping & Topography	Limited landscaping features including lawns, trees, bushes, and planters. Irrigation not present. CMU retaining walls. Low to moderate site slopes throughout	Good
Utilities	Municipal water and sewer Local utility-provided electric and fuel oil tanks	Good
Site Lighting	Pole-mounted: LED Building-mounted: LED	Good
Ancillary Structures	None	N/A
Accessibility	Presently it does not appear an accessibility study is needed for this property.	
Key Issues and Findings	None observed at time of assessment	

3. Supplemental Evaluations

Square Foot Verification

We have reviewed the square footage of 6,200 square feet and it is in the range of square foot calculations as reported by the school district. This confirmation of the square footage of the facility is based on the exterior wall dimensions and number of stories measured from Google Earth and other publicly available internet searches. This measurement may not reflect the actual heated square footage but provides a general size of the heated square feet of the overall building.

PCB Air Indoor Testing

At the time of the onsite evaluation of this facility PCB air testing has not been conducted. Further ongoing information can be found on the Agency of Natural Resources PCB in Schools website Agency of Natural Resources PCB in Schools.

School Educational Capacity and Programming Space

As part of the FCA report, school administrative staff were asked to conduct a self-assessment of whether their school building meets their space, operational needs and if they have sufficient building capacity and appropriate spaces to deliver educational programming. The school responses to the survey are reported in Appendix D. The respondents indicated that the following areas were inadequate to meet current needs:

A space needs self-assessment was conducted by the school administrative staff which identified space constraints in the following areas:

- Adequate number of classrooms.
- Adequate overall building space.
- Confidential space to maintain FERPA, HIPPA or IEP requirements.
- Administrative offices and/or office space for staff.
- Cafeteria, kitchen and/or gymnasium space.

The Depleted Value Facility Condition Index (FCI) is an estimate of a building's overall amount of consumed system life. The Depleted Value FCI ratings scale indicates the estimated condition of the system. Generally, the higher the Depleted Value FCI, the greater the need to repair or replace a system. Note that the FCI can also be calculated for system groups, building types and other aggregations. The estimated percentage of collective system life left in a building, also referred to as Remaining Useful Life (RUL). The higher the RUL, the newer the system. The sum of Depleted Value FCI and RUL will equal 100%.

Depleted Value Index		
	Index Value	57.1%

System Expenditur	e Forecast					
System	Immediate	Short Term (1-2 yr)	Near Term (3-5 yr)	Med Term (6-10 yr)	Long Term (11-20 yr)	TOTAL
Structure	-	-	-	-	-	-
Facade	-	\$42,276	\$4,589	-	\$434,178	\$481,043
Roofing	-	-	-	-	\$20,098	\$20,098
Interiors	-	\$41,851	\$37,256	-	\$130,008	\$209,115
Plumbing	-	\$6,258	\$5,627	\$17,585	\$109,796	\$139,266
HVAC	-	\$24,173	\$65,989	\$69,213	\$110,569	\$269,944
Fire Protection	-	-	\$7,249	\$1,957	\$12,610	\$21,816
Electrical	-	\$4,243	-	\$38,126	\$35,358	\$77,727
Fire Alarm & Electronic Systems	-	\$15,913	-	\$38,125	\$24,792	\$78,830
Equipment & Furnishings	-	-	-	\$36,896	-	\$36,896
Site Pavement	-	\$5,490	-	\$6,364	\$82,458	\$94,312
Site Utilities	-	-	-	\$3,689	-	\$3,689
Site Development	-	-	-	-	\$21,795	\$21,795
TOTALS	\$0	\$140,204	\$120,710	\$211,955	\$981,662	\$1,454,531

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4. Property Space Use and Observed Areas

Areas Observed

The interior spaces were observed to gain a clear understanding of the property's overall condition. Other areas accessed included the site within the property boundaries, the exterior of the property and the roofs.

Key Spaces Not Observed

All key areas of the property were accessible and observed



5. ADA Accessibility

Generally, Title II of the Americans with Disabilities Act (ADA) prohibits discrimination by entities to access and use of "areas of public accommodations" and "public facilities" on the basis of disability. Regardless of their age, these areas and facilities must be maintained and operated to comply with the Americans with Disabilities Act Accessibility Guidelines (ADAAG).

A public entity (i.e., city governments) shall operate each service, program, or activity so that the service, program, or activity, when viewed in its entirety, is readily accessible to and usable by individuals with disabilities.

However, this does not:

- 1. Necessarily requires a public entity to make each of its existing facilities accessible to and usable by individuals with
- Require a public entity to take any action that would threaten or destroy the historic significance of an historic property; or
- 3. Require a public entity to take any action that it can demonstrate would result in a fundamental alteration in the nature of a service, program, or activity or in undue financial and administrative burdens. In those circumstances where personnel of the public entity believe that the proposed action would fundamentally alter the service, program, or activity or would result in undue financial and administrative burdens, a public entity has the burden of proving that compliance with 35.150(a) of this part would result in such alteration or burdens. The decision that compliance would result in such alteration or burdens must be made by the head of a public entity or his or her designee after considering all resources available for use in the funding and operation of the service, program, or activity, and must be accompanied by a written statement of the reasons for reaching that conclusion. If an action would result in such an alteration or such burdens, a public entity shall take any other action that would not result in such an alteration or such burdens but would nevertheless ensure that individuals with disabilities receive the benefits or services provided by the public entity.

Removal of barriers to accessibility should be addressed from a liability standpoint in order to comply with federal law, but the barriers may or may not be building code violations. The Americans with Disabilities Act Accessibility Guidelines are part of the ADA federal civil rights law pertaining to the disabled and are not a construction code. State and local jurisdictions have adopted the ADA Guidelines or have adopted other standards for accessibility as part of their construction codes.

During the FCA, Bureau Veritas performed a limited high-level accessibility review of the facility non-specific to any local regulations or codes. The scope of the visual observation was limited to the same areas observed while performing the FCA and the categories set forth in the appendix. It is understood by the Client that the limited observations described herein do not comprise a full ADA Compliance Survey, and that such a survey is beyond the scope of this particular assessment. A full measured ADA survey would be required to identify any and all specific potential accessibility issues. Additional clarifications of this limited survey:

- This survey was visual in nature and actual measurements were not taken to verify compliance.
- Only a representative sample of areas was observed.
- Two overview photos were taken for each subsection regardless of perceived compliance or non-compliance.
- Itemized costs for individual non-compliant items are not included in the dataset.
- For any "none" boxes checked or reference to "no issues" identified, that alone does not guarantee full compliance.

The facility was originally constructed in 1956. The facility was renovated in 1994 and has widespread accessibility. No information about complaints or pending litigation associated with potential accessibility issues was provided during the interview process.

A detailed follow-up accessibility study is included as a recommendation based on the potential that specific ADA violations, not in this scope of services, may exist. Reference the appendix for specific data, photos, and tables or checklists associated with this limited accessibility survey.



6. Purpose and Scope

Purpose

Bureau Veritas was retained by the client to render an opinion as to the Property's current general physical condition on the day of the site visit.

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Based on the observations, interviews and document review outlined below, this report identifies significant deferred maintenance issues, existing deficiencies, and material code violations of record, which affect the Property's use. Opinions are rendered as to its structural integrity, building system condition and the Property's overall condition. The report also notes building systems or components that have realized or exceeded their typical expected useful lives. The physical condition of building systems and related components are typically defined as being in one of five condition ratings. For the purposes of this report, the following definitions are used:

Condition Ratings	
Excellent	New or very close to new; component or system typically has been installed within the past year, sound and performing its function. Eventual repair or replacement will be required when the component or system either reaches the end of its useful life or fails in service.
Good	Satisfactory as-is. Component or system is sound and performing its function, typically within the first third of its lifecycle. However, it may show minor signs of normal wear and tear. Repair or replacement will be required when the component or system either reaches the end of its useful life or fails in service.
Fair	Showing signs of wear and use but still satisfactory as-is, typically near the median of its estimated useful life. Component or system is performing adequately at this time but may exhibit some signs of wear, deferred maintenance, or evidence of previous repairs. Repair or replacement will be required due to the component or system's condition and/or its estimated remaining useful life.
Poor	Component or system is significantly aged, flawed, functioning intermittently or unreliably; displays obvious signs of deferred maintenance; shows evidence of previous repair or workmanship not in compliance with commonly accepted standards; has become obsolete; or exhibits an inherent deficiency. The present condition could contribute to or cause the deterioration of contiguous elements or systems. Either full component replacement is needed, or repairs are required to restore to good condition, prevent premature failure, and/or prolong useful life.
Failed	Component or system has ceased functioning or performing as intended. Replacement, repair, or other significant corrective action is recommended or required.
Not Applicable	Assigning a condition does not apply or make logical sense, most commonly due to the item in question not being present.

Scope

The standard scope of the Facility Condition Assessment includes the following:

- Visit the Property to evaluate the general condition of the building and site improvements, review available construction
 documents to familiarize ourselves with, and be able to comment on, the in-place construction systems, life safety,
 mechanical, electrical, and plumbing systems, and the general-built environment.
- Identify those components that are exhibiting deferred maintenance issues and provide cost estimates for Immediate Costs and Replacement Reserves based on observed conditions, maintenance history and industry standard useful life estimates. This will include the review of documented capital improvements completed within the last five-year period and work currently contracted for, if applicable.
- Provide a full description of the Property with descriptions of in-place systems and commentary on observed conditions.
- Provide a high-level categorical general statement regarding the subject Property's compliance to Title III of the Americans with Disabilities Act. This will not constitute a full ADA survey but will help identify exposure to issues and the need for further review.
- Obtain background and historical information about the facility from a building engineer, property manager, maintenance staff, or other knowledgeable source. The preferred methodology is to have the client representative or building occupant complete a Pre-Survey Questionnaire (PSQ) in advance of the site visit. Common alternatives include a verbal interview just prior to or during the walk-through portion of the assessment.
- Review maintenance records and procedures with the in-place maintenance personnel.
- Observe a representative sample of the interior spaces/units, including vacant spaces/units, to gain a clear
 understanding of the property's overall condition. Other areas to be observed include the exterior of the property, the
 roofs, interior common areas, and the significant mechanical, electrical and elevator equipment rooms.
- Provide recommendations for additional studies, if required, with related budgetary information.
- Provide an Executive Summary at the beginning of this report, which highlights key findings and includes a Facility Condition Index as a basis for comparing the relative conditions of the buildings within the portfolio.





7. Opinions of Probable Costs

Cost estimates are attached throughout this report, with the Replacement Reserves in the appendix. These estimates are based on Invoice or Bid Document/s provided either by the Owner/facility and construction costs developed by construction resources such as R.S. Means, CBRE Whitestone, and Marshall & Swift, Bureau Veritas's experience with past costs for similar properties, city cost indexes, and assumptions regarding future economic conditions.

Opinions of probable costs should only be construed as preliminary, order of magnitude budgets. Actual costs most probably will vary from the consultant's opinions of probable costs depending on such matters as type and design of suggested remedy, quality of materials and installation, manufacturer and type of equipment or system selected, field conditions, whether a physical deficiency is repaired or replaced in whole, phasing or bundling of the work (if applicable). quality of contractor, quality of project management exercised, market conditions, use of subcontractors, and whether competitive pricing is solicited, etc. Certain opinions of probable costs cannot be developed within the scope of this guide without further study. Opinions of probable cost for further study should be included in the FCA

Methodology

Based upon site observations, research, and judgment, along with referencing Expected Useful Life (EUL) tables from various industry sources, Bureau Veritas opines as to when a system or component will most probably necessitate replacement. Accurate historical replacement records, if provided, are typically the best source of information. Exposure to the elements, initial quality and installation, extent of use, the quality and amount of preventive maintenance exercised. etc., are all factors that impact the effective age of a system or component. As a result, a system or component may have an effective age that is greater or less than its actual chronological age. The Remaining Useful Life (RUL) of a component or system equals the EUL less its effective age, whether explicitly or implicitly stated. Projections of Remaining Useful Life (RUL) are based primarily on age and condition with the presumption of continued use and maintenance of the Property similar to the observed and reported past use and maintenance practices, in conjunction with the professional judgment of Bureau Veritas's assessors. Significant changes in occupants and/or usage may affect the service life of some systems or components.

Where quantities could not be or were not derived from an actual construction document take-off or facility walk-through. and/or where systemic costs are more applicable or provide more intrinsic value, budgetary square foot and gross square foot costs are used. Estimated costs are based on professional judgment and the probable or actual extent of the observed defect, inclusive of the cost to design, procure, construct and manage the corrections.

Definitions

Immediate Needs

Immediate Needs are line items that require immediate action as a result of: (1) material existing or potential unsafe conditions, (2) failed or imminent failure of mission critical building systems or components, or (3) conditions that, if not addressed, have the potential to result in, or contribute to, critical element or system failure within one year or will most probably result in a significant escalation of its remedial cost.

For database and reporting purposes the line items with RUL=0, and commonly associated with Safety or Performance/Integrity Plan Types, are considered Immediate Needs.

Replacement Reserves

Cost line items traditionally called Replacement Reserves (equivalently referred to as Lifecycle/Renewals) are for recurring probable renewals or expenditures, which are not classified as operation or maintenance expenses. The replacement reserves should be budgeted for in advance on an annual basis. Replacement Reserves are reasonably predictable both in terms of frequency and cost. However, Replacement Reserves may also include components or systems that have an indeterminable life but, nonetheless, have a potential for failure within an estimated time period.

Replacement Reserves generally exclude systems or components that are estimated to expire after the reserve term and are not considered material to the structural and mechanical integrity of the subject property. Furthermore, systems and components that are not deemed to have a material effect on the use of the Property are also excluded. Costs that are caused by acts of God, accidents, or other occurrences that are typically covered by insurance, rather than reserved for. are also excluded.

Replacement costs are solicited from ownership/property management. Bureau Veritas's discussions with service companies, manufacturers' representatives, and previous experience in preparing such schedules for other similar facilities. Costs for work performed by the ownership's or property management's maintenance staff are also considered.

Bureau Veritas's reserve methodology involves identification and quantification of those systems or components requiring capital reserve funds within the assessment period. The assessment period is defined as the effective age plus the reserve term. Additional information concerning systems or component's respective replacement costs (in today's dollars), typical expected useful lives, and remaining useful lives were estimated so that a funding schedule could be prepared. The Replacement Reserves Schedule presupposes that all required remedial work has been performed or that monies for remediation have been budgeted for items defined as Immediate Needs.

For the purposes of 'bucketizing' the System Expenditure Forecasts in this report, the Replacement Reserves have been subdivided and grouped as follows: Short Term (years 1-3), Near Term (years 4-5), Medium Term (years 6-10), and Long Term (years 11-20).

Kev Findings

In an effort to highlight the most significant cost items and not be overwhelmed by the Replacement Reserves report in its totality, a subsection of Key Findings is included within the Executive Summary section of this report. Key Findings typically include repairs or replacements of deficient items within the first five-year window, as well as the most significant high-dollar line items that fall anywhere within the ten-year term. Note that while there is some subjectivity associated with identifying the Key Findings, the Immediate Needs are always included as a subset.

Exceedingly Aged

A common scenario encountered during the assessment process, and a frequent source of debate, occurs when classifying and describing "very old" systems or components that are still functioning adequately and do not appear nor were reported to be in any way deficient. To help provide some additional intelligence on these items, such components will be tagged in the database as Exceedingly Aged. This designation will be reserved for mechanical or electrical systems or components that have aged well beyond their industry standard lifecycles, typically at least 15 years beyond and/or twice their Estimated Useful Life (EUL). In tandem with this designation, these items will be assigned a Remaining Useful Life (RUL) not less than two years but not greater than 1/3 of their standard EUL. As such the recommended replacement time for these components will reside outside the typical Short-Term window but will not be pushed 'irresponsibly' (too far) into the future.



8. STEM/STEAM Assessment

This location is not an educational facility and does not fall under the guidelines of STEM/STEAM requirements.

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9. Energy Audit

The purpose of this Energy Audit is to provide the Barre Unified Union SD with a baseline of energy usage, the relative energy efficiency of the facility, and specific recommendations for Energy Conservation Measures. Information obtained from these analyses may be used to support a future application to an Energy Conservation Program, Federal and Utility grants towards energy conservation, as well as support performance contracting, justify a municipal bond-funded improvement program, or as a basis for replacement of equipment or systems.

The energy audit consisted of an on-site visual assessment to determine current conditions, itemize the energy consuming equipment (i.e. Boilers, Make-Up Air Units, DWH equipment); review lighting systems both exterior and interior; and review efficiency of all such equipment. The study also included interviews and consultation with operational and maintenance personnel. The following is a summary of the tasks and reporting that make up the Energy Audit portion of the report.

The following is a summary of the tasks and reporting that make up the Energy Audit portion of the report.

Energy and Water Using Equipment

 Bureau Veritas has surveyed the common areas, offices, maintenance facilities and mechanical rooms to document utility-related equipment, including heating systems, cooling systems, air handling systems and lighting systems.

Building Envelope

 Bureau Veritas has reviewed the characteristics and conditions of the building envelope, checking insulation values and conditions. This review also includes an inspection of the condition of walls, windows, doors, roof areas, insulation and special use areas.

Recommendations for Energy Savings Opportunities

Based on the information gathered during the on-site assessment, the utility rates, as well as recent consumption data
and engineering analysis, Bureau Veritas has identified opportunities to save energy and provide probable construction
costs, projected energy/utility savings and provide a simple payback analysis.

Analysis of Energy Consumption

• Based on the information gathered during the on-site assessment, Bureau Veritas has conducted an analysis of the energy usage of all equipment, and identified which equipment is using the most energy and what equipment upgrades may be necessary. As a result, equipment upgrades, or replacements are identified that may provide a reasonable return on the investment and improve maintenance reliability.

Energy Audit Process

- Interviewing staff and review plans and past upgrades
- · Performing an energy audit for each use type
- Performing a preliminary evaluation of the utility system
- Analyzing findings, utilizing ECM cost-benefit worksheets
- Making preliminary recommendations for system energy improvements and measures
- Estimating initial cost and changes in operating and maintenance costs based on implementation of energy efficiency measures
- · Ranking recommended cost measures, based on the criticality of the project and the largest payback



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10. Historical Energy and Water Performance Metrics

Utility Data Tabulation Methodology

Establishing the energy baseline begins with an analysis of the utility cost and consumption of the facility. Utilizing the historical energy data and local weather information, we evaluate the existing utility consumption and assign it to the various end-uses throughout the buildings. The Historical Data Analysis breaks down utilities by consumption, cost and annual profile.

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This data is analyzed using standard engineering assumptions and practices. The analysis serves the following functions:

- Allows our engineers to benchmark the energy and water consumption of the facilities against consumption of efficient buildings of similar construction, use and occupancy.
- Generates the historical and current unit costs for energy and water
- · Provides an indication of how well changes in energy consumption correlate to changes in weather.
- Reveals potential opportunities for energy consumption and/or cost reduction. For example, the analysis may indicate
 that there is excessive, simultaneous heating and cooling, which may mean that there is an opportunity to improve the
 control of the heating and cooling systems.

By performing this analysis and leveraging our experience, our engineers prioritize buildings and pinpoint systems for additional investigation during the site visit, thereby maximizing the benefit of their time spent on-site and minimizing time and effort by the customer's personnel.

No utility data was received by Bureau Veritas from the client at the time of report compilation. As a result, Bureau Veritas has used average utility costs from other VT Agency of Education properties to approximate the utility costs for this property. Bureau Veritas will update the report on receipt of the actual data from the client.

Utilities Metering at a	Glance
Number of electric meters observed	One
Number of gas meters observed	None
Number of central steam meters observed	None
Number of domestic water meters observed	One

	Average Utility Rates	
Electricity	No. 2 Oil	Water & Sewer
Average Rate	Average Rate	Blended Rate
\$0.18 / kWh (est.)	\$2.78 / Gal (est.)	\$16.11 / kGal (est.)

Electricity

Green Mountain Power provides electrical service to the facility.

The consumption pattern likely remains relatively constant. Any seasonal variation in consumption is primarily attributed to cooling loads, while the static base load primarily consists of lighting and appliances.

Note: No utility data was received by Bureau Veritas from the client at the time of report compilation. As a result, Bureau Veritas has used the electric rate from other properties within the same geographical region having similar construction layout and usage patterns. Bureau Veritas will update the report on receipt of the actual data from the client.



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Propane or Fuel Oil

The fuel oil supplier to the facility was not provided. The deliveries are made on an as-needed basis.

The primary use of fuel oil is for space heating. Any seasonal variation in consumption is primarily attributed to the heating loads.

Note: No utility data was received by Bureau Veritas from the client at the time of report compilation. As a result, Bureau Veritas has used the utility rates from other properties within the same geographical region having similar construction layout and usage patterns. Bureau Veritas will update the report on receipt of the actual data from the client.

Water and Sewer

The Town of Barre satisfies the water and sewer requirements of the facility.

The water consumption pattern most likely remains more or less flat over the 10-month period that school is in session.

Note: No utility data was received by Bureau Veritas from the client at the time of report compilation. As a result, Bureau Veritas has used the utility rate from other properties within the same geographical region having similar construction layout and usage patterns. Bureau Veritas will update the report on receipt of the actual data from the client.





11. Energy Conservation Measures

Bureau Veritas has conducted an Energy Audit on the Barre Unified Union SD. The study included a review of the building's construction features, historical energy and water consumption and costs, review of the building envelope, HVAC equipment, heat distribution systems, lighting, and the building's operational and maintenance practices.

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Bureau Veritas has evaluated six Energy Conservation Measures (ECMs) for this property. The savings for each measure are calculated using standard engineering methods followed in the industry, and detailed calculations for ECM are provided in Appendix H for reference. A 10% discount in energy savings was applied to account for the interactive effects amongst the ECMs. In addition to the consideration of the interactive effects, Bureau Veritas has applied a 15% contingency to the implementation costs to account for potential cost overruns during the implementation of the ECMs.

The following table summarizes the recommended ECMs in terms of description, investment cost, energy consumption reduction, and cost savings.

Recommended Non- Renewable Energy (Conservation Measures: Financial Impact
Total Projected Initial ECM Investment	\$59,088
Estimated Annual Cost Savings Related to ECMs	\$5,796
Net Effective ECM Payback	10.2 Years

Key Metrics to Benchmark the Subject Property's Energy Usage Profile

- <u>Building Site Energy Use Intensity</u> The sum of the total site energy use in thousands of Btu per unit of gross building
 area. Site energy accounts for all energy consumed at the building location only not the energy consumed during
 generation and transmission of the energy to the site.
- <u>Building Source Energy Use Intensity</u> The sum of the total source energy use in thousands of Btu per unit of gross building area. Source energy is the energy consumed during generation and transmission in supplying the energy to your site.
- Building Cost Intensity This metric is the sum of all energy use costs in dollars per unit of gross building area.
- <u>Greenhouse Gas Emissions</u> Although there are numerous gases that are classified as contributors to the total for Greenhouse Emissions, the scope of this energy audit focuses on carbon dioxide (CO₂). Carbon dioxide enters the atmosphere through the burning of fossil fuels (oil, natural gas, and coal), solid waste, trees and wood products, and also as a result of other chemical reactions (e.g., manufacture of cement).

eet the criteria.

Energy Conservation Measures Screening:

Bureau Veritas screens ECMs using the financial methodology below. ECMs which are considered financially viable must meet the criteria.

Simple Payback Period –The number of years required for the cumulative value of energy or water cost savings less future non-fuel or non-water costs to equal the investment costs of the building energy or water system, without consideration of discount rates. ECMs with a payback period greater than the Expected Useful Life (EUL) of the project are not typically recommended, as the cost of the project will not be recovered during the lifespan of the equipment. These ECMs are recommended for implementation during future system replacement. At that time, replacement may be evaluated based on the premium cost of installing energy efficient equipment.





		H	ergy Cor	Energy Conservation Measures	ת Measu	res								
	Description of ECM	Location	Net Projected Initial Investment (\$)	Estimated Annual Savings #2 Oil (Gal)	Estimated Annual Savings Electricity (KWh)	Estimated Annual Savings Water (KGal)	Total Energy Savings (MMBTU)	Total Green House Gas Savings (MtCO²/Yr.)	Estimated Utility Cost Savings (\$)	Estimated Annual O&M Savings (\$)	Total Estimated Annual Cost Savings (\$)	Simple Payback (Yrs)	Life Cycle Savings (\$)	Expected Useful Life (EUL) (Yrs)
FF	Install Low Flow Faucet Aerators, Replace 6x 2GPM rated bathroom aerators with 0.5GPM WaterSense certified aerators	Location: Restrooms, lounge	\$91	0.0	265.2	1.7	6:0	0.1	\$48	0\$	\$76	1.2	\$554	10
2	Install Low Flow Tankless Restroom Fixtures, Retrofit 2x; 1.6 GPF tollets with dual-flush flush valves	Location: Restrooms	\$374	0.0	0.0	9.0	0.0	0.0	0\$	0\$	\$144	2.6	\$1,350	15
m	Replace Existing Linear Fluorescent Lamps, Replace 40x F44T8 with F44LED; Replace 17x F42T8 with F42LED; Replace 13x F44T8 with F44LED	Location: Throughout building	\$4,717	0.0	7,000.9	0.0	23.9	1.7	\$1,260	\$153	\$1,413	3.3	\$12,151	15
4	Retrofit Flush Tank Toilets to Dual Flush, Retrofit 2x 1.6GPF toilets to dual-flush	Location: Restrooms	\$262	0.0	0.0	2.6	0.0	0.0	0\$	0\$	\$41	6.3	\$352	20
9	Replace Inefficient Heating Plant, Replace (2x) Cast Iron boiler(s) with (2x) 95% efficient Condensing Boiler	Location: Boiler room	\$27,837	1,105.3	0.0	0.0	153.1	11.2	\$3,073	\$154	\$3,226	8.6	\$28,342	25
7	Replace Existing Air Conditioners with Energy Star Conditioners, Conditi	Location: Building exterior	\$18,100	0.0	8,148.6	0.0	27.8	1.9	\$1,467	\$73	\$1,540	11.8	\$285	15
Totals fo.	otals for no/low cost items		\$726	0.0	265.2	13.2	6.0	0.1	\$48	0\$	\$261	2.8		
Total for	otal for capital cost		\$50,654	1,105.3	15,149.5	0.0	204.8	14.8	\$5,800	\$380	\$6,179	8.2		
Interactiv	Interactive Savings Discount @10%			-110.5	-1,541.5	-1.3	-20.6	-1.5	-\$5.85	86\$-	-\$644			
Total Cor	Fotal Contingency Expenses @ 15%		\$7,707											
Totals fo	Totals for improvements		\$80'65\$	994.7	13,873.2	11.9	185.1	13.4	\$5,263	\$342	\$5,796	10.2		

12. Certification

Vermont Agency of Education, Phase Two (the Client) retained Bureau Veritas to perform this Facility Condition
Assessment in connection with its continued operation of Barre Unified Union SD - Main Building, 120 Ayers Street, Barre
VT,05641, the "Property". It is our understanding that the primary interest of the Client is to locate and evaluate materials
and building system defects that might significantly affect the value of the property and to determine if the present
Property has conditions that will have a significant impact on its continued operations.

The conclusions and recommendations presented in this report are based on the brief review of the plans and records made available to our Project Manager during the site visit, interviews of available property management personnel and maintenance contractors familiar with the Property, appropriate inquiry of municipal authorities, our Project Manager's walk-through observations during the site visit, and our experience with similar properties.

No testing, exploratory probing, dismantling, or operating of equipment or in-depth studies were performed unless specifically required under the *Purpose and Scope* section of this report. This assessment did not include engineering calculations to determine the adequacy of the Property's original design or existing systems. Although walk-through observations were performed, not all areas may have been observed (see Section 1 for specific details). There may be defects in the Property, which were in areas not observed or readily accessible, may not have been visible, or were not disclosed by management personnel when questioned. The report describes property conditions at the time that the observations and research were conducted.

This report has been prepared on behalf of and exclusively for the use of the Client for the purpose stated within the *Purpose and Scope* section of this report. The report, or any excerpt thereof, shall not be used by any party other than the Client or for any other purpose than that specifically stated in our agreement or within the *Purpose and Scope* section of this report without the express written consent of Bureau Veritas.

Any reuse or distribution of this report without such consent shall be at the Client and the recipient's sole risk, without liability to Bureau Veritas.

Prepared by: Bureau Veritas Technical Assessments



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BARRE UNIFIED UNION SD - MAIN BUILDING

Appendix A: Photographic Record

Appendix B: Site Plans

Appendix C: School Educational Capacity and Programming Space

Appendix D: Accessibility Review & Photos
Appendix E: Component Condition Report
Appendix F: Replacement Reserves

Appendix G: Depleted Value Report

Appendix A:
Photographic Record



30



Photographic Overview



1 - OVERVIEW OF FRONT ELEVATION



2 - OVERVIEW OF LEFT ELEVATION



3 - OVERVIEW OF REAR ELEVATION



4 - OVERVIEW OF RIGHT ELEVATION



5 - OVERVIEW OF OFFICE SPACE



6 - OVERVIEW OF OFFICE SPACE



7 - PHOTO OF SHARED OFFICE SPACE



8 - OVERVIEW OF CONFERENCE ROOM



9 - OVERVIEW OF FILE STORAGE



10 - OVERVIEW OF RECEPTION AREA



11 - PHOTO OF FILE SAFE



12 - OVERVIEW OF BREAKROOM SPACE

Appendix B: Site Plans





Project Name	Project Number
Vermont Agency of Education	158982.22R000-023.379 Barre Unified Union SD
Source	On-Site Date
Google MyMaps	July 20, 2023

Appendix C:
School Educational Capacity and Programming Space



School Educational Capacity and Programming Space

As part of Act 72, AOE has contracted with Bureau Veritas (BVNA) to complete a Facility Condition Assessment (FCA) of very public school building in Vermont. One component of the FCA report will be to identify whether the size and configuration of your current facility is meeting your school's educational and operational needs. In order for us to accurately capture your facility space needs, it is necessary for the AOE and BVNA to receive your input. To complete this brief survey, we recommend that you consult with school building leadership and facilities/custodial staff.

School Name

Barre Unified Union SD - Main Building

At the time of this assessment there was no information available for this location.

Appendix D:
Accessibility Review & Photos



Visual Survey - ADA Standards for Accessible Design

Property Name:	Barre Unified Union SD	

BV Project Number: 158982.22R000-023.379

Facility History & Interview	v			
Question	Yes	No	Unk	Comments
ADA: Has an accessibility study been performed at the site? If so, when?			Х	
2. ADA: If a study has occurred, have the associated recommendations been addressed? In full or in part?			x	
3. ADA: Have there been regular complaints about accessibility issues, or previous or pending litigation?			x	

Building: Accessi	bility Issues			
Category	Major Issues (ADA study recommended)	Moderate Issues (ADA study recommended)	Minor Issues	None
Parking				None
Exterior Route				None
Building Entrances				None
Interior Route			Blocked hallway access	
Public Restrooms				None

^{*}Be cognizant that if the "None" box is marked that does not guarantee full compliance; this study is limited in nature



1 - OVERVIEW OF ACCESSIBLE PARKING AREA



2 - CLOSE-UP OF STALL or 2ND PARK AREA



3 - EXT RAMP or PRIMARY PATH OF TRAVEL



4 - CURB CUT or 2ND PATH OF TRAVEL



5 - MAIN ACCESSIBLE ENTRANCE



6 - 2nd ENTRANCE or SIGNAGE/HARDWARE



7 - ACCESSIBLE INTERIOR PATH (RAMP/LIFT)



8 - HARDWARE, STAIR RAILS or SELF-SERVICE AREA



9 - TOILET STALL OVERVIEW



10 - SINK, FAUCET HANDLES or ACCESSORIES

The table below is intended to be used as a general reference guide to help differentiate the orders of magnitude between some of the more commonly observed accessibility issues. The table is not intended to be all-inclusive, and boxes checked in the tables above do not necessarily mean those specific problems or shortcomings cited as examples below exist at the subject buildings and sites. Reference the data and photos above and/or the *Key Findings* section in the body of the report for visuals and/or more specifics about the particular subject site conditions.

Reference Guide			
	Major Issues (ADA study recommended)	Moderate Issues (ADA study recommended)	Minor Issues
Parking	Needs full reconstruction Excessive slopes over 3% require major re-grading No level locations to add required spaces	No or non-compliant curb cuts Moderate difficulty to add required accessible spaces Slopes close to compliant	Painting of markings needed Signage height non-compliant Signage missing
Exterior Route	Large areas of sidewalks with excessive slopes No ramp when needed Ramps with excessive slopes	Ramps need rails Ramps need rail extensions All or most entrance door exterior maneuvering clearance areas with excessive slopes	One entrance door exterior maneuvering clearance area with excessive slope Non-compliant signage
Building Entrances	No compliant entrance exists Exterior entry door/s not wide enough Entrance vestibule requires complete reconstruction / reconfiguration due to clearance	Need significant # of lever handles Need to add or modify automatic door opener Entrance vestibule requires limited reconfigurations	A few door knobs instead of lever handles Non-compliant door threshold
Interior Route	- All or most interior doors appear less than 32" wide - Corridors less than 36" wide - No ramp when needed - Ramps with excessive slopes - Non-compliant treads/risers at means of egress stairways	- Single height drinking fountains - Drinking fountain too high or protrudes into accessible route - Ramps need rails - Ramps need rail extensions - Need significant # of lever handles - Non-compliant rail extensions at egress stairways - All/most door thresholds high	One door threshold too high A few door knobs instead of lever handles Non-compliant door pressures Non-compliant signage Switches not within reach range
Elevators	No elevator present when required Elevator cab too small	Panel control buttons not at compliant height No hands-free emergency communication system Elevator only has mechanical stops	- Audible/visual signals at every floor may be lacking - Minor signage / Braille issues
Public Restrooms	- No ADA RR on each accessible floor - Restroom(s) too small - Entire restroom(s) requires renovation - Water closet clearance requires moving walls	- Interior doors appear less than 32" wide - Missing or non-compliant grab bars - Easily fixable clearance issues	- Minor height adjustments required - Non-compliant door pressures - Missing a visual strobe (only required if audible fire alarm already present) - Missing lavatory pipe wraps - Signage not compliant

	Major Issues (ADA study recommended)	Moderate Issues (ADA study recommended)	Minor Issues
Kitchens/Kitchenettes	Clear space for each appliance not present Clearance between opposing counters too narrow	Sink and counter too high Sink knee and toe clearance not provided where required (built-in) Less than 50% of cabinetry within reach range	- Dispensers not within reach range - Switches not within reach range - Missing sink pipe wraps if knee and toe clearance required
Playgrounds & Pools	Large areas of surfacing non-compliant Install compliant play structures No pool lift provided	Small area/s of surfacing or equipment non-compliant Moderate issues with path of travel to playground/pool	- Minor issues with path of travel to playground/pool

Appendix E:
Component Condition Report



UF13 Code	Location	Category	Condition	Asset/Component/Repair	Ouantity	Unit	RUL	QI
Structure		10			ŕ	-		
B1080	Stairwells	Structure	Fair	Stairs, Metal or Pan-Filled, Interior	250	SF	21	6881050
Facade								
B2010	Building Exterior	Facade	Fair	Exterior Walls, Brick	4,500	SF	20	6881023
B2020	Building Exterior	Facade	Fair	Window, Aluminum Double-Glazed, 16-25 SF	5		2	6881039
B2020	Building Exterior	Facade	Fair	Window, Vinyl-Clad Double-Glazed, 16-25 SF	39		2	6881065
0				Exterior Door, Wood, Solid-Core Decorative High-End				1
B2050	Building Exterior	Facade	Fair	W/ Grazing	7		2	6881057
B2050	Building Exterior	Facade	Fair	Exterior Door, Steel, Standard	4		12	6881013
Roofing								
B3010	Roof	Roofing	Good	Roofing, Asphalt Shingle, 20-Year Standard	3,200	SF	17	6881067
Interiors								
C1030	Throughout building	Interiors	Fair	Interior Door, Wood, Solid-Core Decorative High-End	3		17	6881022
C1030	Throughout building	Interiors	Fair	Interior Door, Wood, Solid-Core	15		17	6881071
C1030	Throughout building	Interiors	Fair	Interior Door, Wood, Solid-Core Decorative High-End	2		2	6881036
C1030	Throughout building	Interiors	Fair	Interior Door, Steel, w/ Extensive Glazing	7		11	6881028
C1070	Throughout building	Interiors	Fair	Suspended Ceilings, Acoustical Tile (ACT)	3,100	SF	12	6881063
C2010	Throughout building	Interiors	Fair	Wall Finishes, any surface, Prep & Paint	10,000	SF	3	6881016
C2030	Throughout building	Interiors	Fair	Flooring, Wood, Strip	1,000	SF	2	6881046
C2030	Throughout building	Interiors	Fair	Flooring, Carpet, Commercial Standard	3,000	SF	2	6881059
C2030	Restrooms	Interiors	Good	Flooring, Ceramic Tile	250	SF	27	6881051
C2030	Boiler room	Interiors	Fair	Flooring, any surface, w/ Paint or Sealant, Prep & Paint	200	R	2	6881054
C2030	Throughout building	Interiors	Fair	Flooring, Vinyl Tile (VCT)	2,000	SF	2	6881029
C2050	Throughout building	Interiors	Fair	Ceiling Finishes, any flat surface, Prep & Paint	3,100	SF	2	6881058
Plumbing								
				Plumbing System, Supply & Sanitary, Medium Density				
D2010	Throughout building	Plumbing	Fair	(excludes fixtures)	6,200	SF	12	6881048
D2010	Restrooms	Plumbing	Good	Toilet, Residential Water Closet	2		22	6881041
D2010	Boiler room	Plumbing	Fair	Water Heater, Electric, Residential, 30 to 52 GAL	1		7	6881027
D2010	Lounge	Plumbing	Fair	Sink/Lavatory, Drop-In Style, Stainless Steel	1		17	6881042
D2010	Restrooms	Plumbing	Fair	Toilet, Commercial Water Closet	2		2	6881009
D2010	Restrooms	Plumbing	Fair	Urinal, Standard	3		2	6881049
D2010	Restrooms	Plumbing	Fair	Sink/Lavatory, Service Sink, Laundry	1		17	6881047
D2010	Boiler room	Plumbing	Fair	Pump, Circulation, Domestic Water, 1 HP	2		7	6881035
D2010	Hallway	Plumbing	Fair	Drinking Fountain, Wall-Mounted, Single-Level	1		7	6881012
				Sink/Lavatory, Vanity Top, Solid Surface or Vitreous				
D2010	Restrooms	Plumbing	Fair	China	5		17	6881038
09000		N1L1.	3	Supplemental Components, Compressed Air Dryer,	•		٢	6001000
02020	Basement	Plumbing	rair	Process support	1		, ,	6881024
D2060	Basement	Plumbing	Fair	Air Compressor, Tank-Style	1		3	6881019
HVAC								
D3010	Boiler room	HVAC	Fair	Storage Tank, Fuel, Interior	2		4	6881021
D3020	Boiler room	HVAC	Fair	Boiler Supplemental Components, Expansion Tank	1		6	6881053
D3020	Boiler room	HVAC	Fair	Boiler, Oil, HVAC	2		2	6881055

BARRE	UNIFIED	LINION SD	- MAIN	BUILDING

6881030

SF

Distribution Panel, 120/208 V Electrica System, Wiring & Switches, High Density/Complexity Herefor Lighting System, Full Upgrade, High Density & standard Extures

Fair Fair

Electrical

D5040 Throughout building Fire Alarm & Electronic Systems

D5030

Throughout building

D7030

Fire Suppression System, Existing Sprinkler Heads, by SF Fire Riser, Dry Standpipe, 4 IN Fire Extinguisher, Type ABC, up to 20 LB

Throughout building Boiler room Throughout building

D4010 D4010 D4030 **Electrical** D5020

6881034

6,200

6881031

SF

6,200 6,200

wenge Density ire Alam System, Full System Upgrade, Standard Addressable, Upgrade/Install ire Alarm Panel, Fully Addressable

Fair

Fair

ire Alarm & Electronic Systems ire Alarm & Electronic Systems ire Alarm & Electronic Systems

6881056

Picnic Table, Wood/Composite/Fiberglass
Retaining Wall, Concrete Masonry Unit (CMU)
Exterior Fixture w/ Lamp, any type, w/ LED
Replacement

Fair

Building exterior

G4050

RURFALL	VERITAS PROJECT:	158982 22R000.	n23 370

Appendix F: Replacement Reserves



| 2023 | 2004 | 2024 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 | 2025 |

PAGE RULL
PAGE R RUL 20 82 82 82 81 81 The first of Door, Wood, Solid-Core
Decorative High-End w/ Glasting, Replace
13 Exterior Door, Steel, Standard, Replace
cy Roofing, Asphalt Simple, 20 Hear
Standard, Replace
Standard, Replace
Standard, Replace
Standard, Replace respace
Interior Door, Wood, Solid-Core
Decorative High-End, Replace
Interior Door, Wood, Solid-Core, Replace
Superior Ed. Core, Replace
Superior Ed. Colins. Accustical Tile (ACT).

Deficiency Repair Estimate	\$10,400	\$10,400	000'8\$	008'95	\$6,100	\$4,800	\$31,000	\$24,800	\$6,634	\$7,000	\$3,000	\$4,000	\$24,800	\$31,000	\$12,400	\$30,000	\$18,600	\$15,000	\$15,000	\$20,700	\$40,250	\$1,800	\$13,200	\$3,000	\$1,011,398
2043																									\$238,500
2042											\$1,500														\$0 \$129,772 \$12,600 \$1,500 \$238,500
2041		\$5,200	\$4,000	\$3,400																					\$12,600
2040	\$5,200															\$15,000				\$5,175	\$40,250	\$1,800			\$0 \$129,772 \$12,600
2039										Ħ															8
2038																									8.
2037						\$4,800																			\$4,800
2036																									\$6,100 \$6,650 \$192,075 \$15,000
2035							\$31,000			\$7,000			\$24,800							\$5,175			\$13,200		\$6,650 \$192,075 \$15,000
2034																									\$6,650 \$
2033					\$6,100																				\$6,100
2032											\$1,500														\$3,680
2031																									\$0
2030								\$24,800						\$31,000	\$12,400		\$18,600	\$15,000	\$15,000	\$5,175				\$3,000	\$0 \$161,775
5029																									8.
2028																									\$58,000
2027																									\$5,200
2026		\$5,200	\$4,000	\$3,400					\$6,634																\$43,584
2025	\$5,200											\$4,000				\$15,000				\$5,175					\$132,162 \$43,584 \$5,200 \$58,000
2024																									8.
2023																									8.
Subtotal	\$5,200	\$5,200	\$4,000	\$3,400	\$6,100	\$4,800	\$31,000	\$24,800	\$6,634	\$7,000	\$1,500	\$4,000	\$24,800	\$31,000	\$12,400	\$15,000	\$18,600	\$15,000	\$15,000	\$5,175	\$40,250	\$1,800	\$13,200	\$3,000	Totals, Une scalated
Unit Cost *	\$5,200.00	\$5,200.00	\$4,000.00	\$3,400.00	\$6,100.00	\$4,800.00	\$5.00	\$4.00	\$1.07	\$7,000.00	\$150.00	\$2,000.00	\$2.00	\$5.00	\$2.00	\$15,000.00	\$3.00	\$300.00	\$500.00	\$0.45	\$3.50	\$600.00	00'09\$	\$600.00	Totals, Un
Unit	ЕA	3	EA	Ą	ΕA	Æ	35	SF	3S.	EA	10 EA	EA	ş	SF	SF	EA	ЗS	J)	дT	ЗS	SF	ΕA	ЗS	EA	1
Quantity	0						0029	0029	9200	0	10	2	6200	0029	0029	0	0079	20	30	11500	11500	(6)	220	US	Totals, Unescalated
RUL	2	m	3		10	14	12	7	3	12	6	2	12	7	7	2	7	7	7	2	17	17	12	7	1
EAge	13	12	12	12	s		28	23	22	28	1	28	52	13	00	13	13	13	13	3	00	3	28	13	
(EUL)	15	15	15	15	15	15	40	. 30	25	40	10	30	9	92	15	15	20	02	02	9	22	20	40	02	
Cost Description	O45 Split System, Condensing Unit/Heat Pump, Replace	020 Split System, Condensing Unit/Heat Pump, Replace	060 Split System, Condensing Unit/Heat Pump, Replace	064 Split System, Condensing Unit/Heat Pump, Replace	025 Split System Ductless, Single Zone, 2.5 to 3 TON, Replace	032 Split System Ductless, Single Zone, 1.5 to 2 TON, Replace	HVAC System, Hydronic Piping, 2-Pipe, Replace			0	O40 Fire Extinguisher, Type ABC, up to 20 LB, Replace	6881017 Distribution Panel, 120/208 V, Replace	030 Electrical System, Wiring & Switches, High Density/Complexity, Replace	034 Interior Lighting System, Full Upgrade, High Density & Standard Fixtures, Replace	03.1 Security/Survellance System, Full System Upgrade, Average Density, Replace	D61 Fire Alarm Panel, Fully Address able, Replace	O14 Fire Alarm System, Full System Upgrade, Standard Addressable, Upgrade/Install	Ose Casework, Cabinetry, Hardwood Standard, Replace		Parking Lots, Pavement, Asphalt, Seal & Stripe			062 Retaining Wall, Concrete Masonry Unit (CMU), Replace	056 Exterior Fixture w/ Lamp, any type, w/ LED Replacement. Replace	
Q	6881045	6881020	D3030 6881060	D3030 6881064	D3030 688102	D3030 6881032	D3050 6881044	D3050 6881033	D4010 6881052	D4010 688107	D4030 6881040	D5020 68810	6881030	688103	D7030 688103:	D7050 6881061	D7050 688101×	6881066	E2010 6881011	G 2020 688101!	62020 6891293	6881043	G2050 6881062	G4050 688105 6	
Uniformat Code	D3030	D3030											DS030	D2040				E2010				62080			

Appendix G: Depleted Value Report



BARRE UNIFIED UNION SD - Main Building

Depleted Value Index

57.1%

System	Sys	stem Contribution	System Value
Air Compressor	\$	3,605	\$ 5,150
Air Ventilator	\$	8,442	\$ 12,987
Boiler	\$	24,000	\$ 40,000
Boiler Supplemental Components	\$	1,889	\$ 2,180
Casework	\$	9,750	\$ 15,000
Casework	\$	1,500	\$ 15,000
Ceiling Finishes	\$	4,340	\$ 6,200
Distribution Panel	\$	3,520	\$ 4,000
Drinking Fountain	\$	1,000	\$ 1,200
Electrical System	\$	19,840	\$ 24,800
Exterior Door	\$	1,365	\$ 4,200
Exterior Door	\$	1,920	\$ 2,400
Exterior Fixture w/ Lamp	\$	2,600	\$ 3,000
Exterior Walls	\$	166,950	\$ 238,500
Fire Alarm Panel	\$	11,500	\$ 15,000
Fire Alarm System	\$	10,695	\$ 18,600
Fire Extinguisher	\$	863	\$ 1,500
Fire Riser	\$	6,125	\$ 7,000
Fire Suppression System	\$	4,810	\$ 6,634
Flooring	\$	9,750	\$ 15,000
Flooring	\$	7,200	\$ 22,500
Flooring	\$	2,700	\$ 4,500
Flooring	\$	113	\$ 750
Flooring	\$	7,000	\$ 10,000
HVAC System	\$	16,533	\$ 31,000
HVAC System	\$	19,013	\$ 24,800
Interior Door	\$	3,150	\$ 4,500
Interior Door	\$	1,575	\$ 10,500
Interior Door	\$	1,600	\$ 3,000
Interior Door	\$	2,882	\$ 6,650
Interior Lighting System	\$	13,433	\$ 31,000
Parking Lots	\$	17,442	\$ 40,250
Parking Lots	\$	4,140	\$ 5,175
Picnic Table	\$	1,440	\$ 1,800
Plumbing System	\$	59,107	\$ 68,200
Pump	\$	5,280	\$ 6,600
Radiator	\$	19,500	\$ 22,500

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System	System	n Contribution	System Value
Retaining Wall	\$	880	\$ 13,200
Roofing	\$	4,053	\$ 12,160
Security/Surveillance System	\$	7,192	\$ 12,400
Sink/Lavatory	\$	1,008	\$ 1,200
Sink/Lavatory	\$	585	\$ 900
Sink/Lavatory	\$	2,860	\$ 5,500
Split System	\$	1,387	\$ 5,200
Split System	\$	3,733	\$ 4,000
Split System	\$	4,293	\$ 4,600
Split System	\$	2,380	\$ 3,400
Split System	\$	2,773	\$ 5,200
Split System Ductless	\$	4,480	\$ 4,800
Split System Ductless	\$	5,693	\$ 6,100
Stairs	\$	-	\$ 12,000
Storage Tank	\$	-	\$ 5,200
Supplemental Components	\$	-	\$ 5,600
Suspended Ceilings	\$	-	\$ 10,850
Toilet	\$	-	\$ 1,400
Toilet	\$	-	\$ 2,600
Urinal	\$	-	\$ 3,300
Wall Finishes	\$	-	\$ 15,000
Water Heater	\$	-	\$ 900
Window	\$	-	\$ 4,750
Window	\$	-	\$ 35,100
Totals	\$	517,889	\$ 907,436

Page 2 of 2

FACILITY CONDITION ASSESSMENT



prepared for

Vermont Agency of Education_FCA Phase Two 1 National Life Drive, Davis 5 Montpelier, VT 05620-2501



PREPARED BY:

Bureau Veritas 6021 University Blvd., Suite 200 Ellicott City, MD 21043 800.733.0660 www.us.bureauveritas.com

BV PROJECT #: 158982.22R000-305.379

DATE OF REPORT: September 12, 2023

ON SITE DATE: August 1, 2023

SPAULDING UHS - Main Building (PS276-SU019) 155 Ayers Street Barre, VT 05641

Bureau Veritas

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1. Executive Summary

Property Overview and Assessment Details

General Information	
Property Type	School
School ID Number	PS276-SU019
Main Address	155 Ayers Street, Barre, VT 05641
E911 Address Verification	Zip 05641-4349, Standardized, Fixed abbreviations, Matched street and city and state, Confirmed entire address
GPS Location (Verified E911)	Main Building 44.18986, -72.493
Site Developed	1964 Renovated: 2002
Site Area	20.7 acres (estimated)
Parking Spaces	225 total spaces all in open lots; 8 of which are accessible
Building Square Footage	210,000 (Verified)
Number of Stories	3 above grade
Supervisory Union/ District	Barre Unified Union SD
Date(s) of Visit	August 1, 2023

Note: (Verified) in Square Foot signifies that the square footage of the facility has been verified to be accurate.

Significant/Systemic Findings and Deficiencies

Historical Summary

The building was originally constructed in 1964 and has had several additions since then. The latest addition occurred in 2002 and added classroom and gymnasium spaces. The building houses both the high school and the technical center.

Architectural

The building is steel framed. There is a brick façade and metal panels on the exterior of the building. The windows are aluminum and were installed in 2002 or earlier. The roof of the main building is TPO/PVC material while the gymnasium roof is EPDM material. The interior finishes consist of wood floors and VCT in the gymnasium addition, and terrazzo, VCT and carpet in the main building and classrooms. The walls are painted CMU and gypsum board with ceramic tile accents. There are wood and steel doors throughout the building. All interior finishes have been maintained and updated as needed.

Mechanical, Electrical, Plumbing and Fire (MEPF)

Heating for the main building is mainly provided by two oil-fired boilers, as well as a wood chip boiler. The oil boilers are located in a boiler room in the main building. The wood chip boiler is located in a standalone boiler room. There is a smaller oil-fired boiler in the gymnasium addition that provides the heat for the area. Baseboard radiators are located throughout the building and are fed by heating water pumps. There are unit ventilators in some rooms. These pumps did not have VFDs. There are packaged units on the roof providing heating and air circulation to the building. There are also fans on the roof providing air extraction for the building. The electrical service feeds a 1200-amp switchboard located in the electrical room. The switchboard is original to the building. There are smaller distribution panels throughout the building. The interior lighting consists of mainly linear fluorescent bulbs, but sections of the building are being replaced with LED fixtures as of summer 2023. Most of the electrical service equipment and systems are well maintained and should be replaced during normal life expectancy. In general, the plumbing systems are adequate to serve the facilities, with equipment and fixtures to be updated as needed. The domestic water service within each facility is well maintained, with no evidence of leaks observed at the domestic piping. The domestic hot water service at the facilities consists of 2 electric heaters and a large indirect water heater. Lifecycle replacement of original domestic water and sanitary sewer systems is not anticipated. No major issues were observed or reported. Fire protection system consists of a hard-wired fire alarm system and a wet-type fire sprinkler system. The sprinkler system is throughout the building. The alarm system consists of strobes, pull stations, illuminated exit signs, emergency lighting and other modern life safety devices. The building also has a commercial kitchen with a exhaust hood extinguishing system.

Site

The site has a large parking lot to the front, left, and rear sides of the building. There are large sports fields behind the building including a football field and a baseball field.

Recommended Additional Studies

No additional studies recommended at this time





Facility Condition Index (FCI)

One of the major goals of the FCA is to calculate each building's Facility Condition Index (FCI), which provides a theoretical objective indication of a building's overall condition. By definition, the FCI is defined as the ratio of the cost of current needs divided by current replacement value (CRV) of the facility. The chart below presents the industry standard ranges and cut-off points.

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FCI Ranges and	FCI Ranges and Descriptions					
0 – 5%	In new or well-maintained condition, with little or no visual evidence of wear or deficiencies.					
5 – 10%	Subjected to wear but is still in a serviceable and functioning condition.					
10 – 30%	Subjected to hard or long-term wear. Nearing the end of its useful or serviceable life.					
30% and above	Has reached the end of its useful or serviceable life. Renewal is now necessary.					

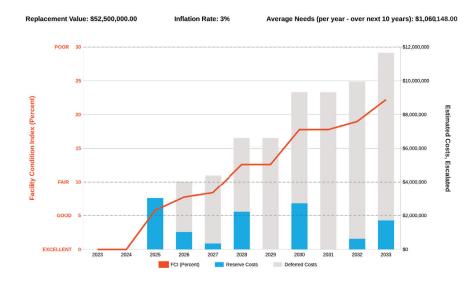
The deficiencies and lifecycle needs identified in this assessment provide the basis for a portfolio-wide capital improvement funding strategy. In addition to the current FCI, extended FCI's have been developed to provide owners the intelligence needed to plan and budget for the "keep-up costs" for their facilities. As such the 3-year, 5-year, and 10-year FCI's are calculated by dividing the anticipated needs of those respective time periods by current replacement value. As a final point, the FCI's ultimately provide more value when used to relatively compare facilities across a portfolio instead of being over-analyzed and scrutinized as stand-alone values. The table below summarizes the individual findings for this FCA:

FCI Analysis				
Replacement Value	Total SF		Cost/SF	
\$52,500,000	210,000		\$250	
Current FCI		\$0		0.0%
3-Year		\$4,045,800		7.7%
5-Year		\$6,614,000		12.6%
10-Year		\$11,661,700		22.2%

Facility Level FCI:

The orange line in the graph below forecasts what would happen to the FCI (left Y axis) over time, assuming zero capital expenditures. The capital expenditures allocated for each year (blue bars) are associated with the dollar amounts along the right Y axis. If the school expends the average amount per year to maintain and replace systems, they will not incur the capital debt represented by the gray bars.

Needs by Year with Unaddressed FCI Over Time





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Year	Reserve	Reserve Escalation	Recurrence	Recurrence Escalation	Total Escalation	Deferred	FCI
2023	0	0	0	0	0	0	0
2024	0	0	0	0	0	0	0
2025	2,849,450	173,532	0	0	173,532	3,022,982	0.06
2026	935,988	86,791	0	0	86,791	4,045,761	80.0
2027	307,600	38,607	0	0	38,607	4,391,968	0.08
2028	1,916,700	305,281	0	0	305,281	6,613,949	0.13
2029	0	0	0	0	0	6,613,949	0.13
2030	2,082,250	478,655	125,000	28,734	507,389	9,174,854	0.17
2031	2,100	560	0	0	560	9,177,514	0.17
2032	481,100	146,626	0	0	146,626	9,805,240	0.19
2033	1,267,000	435,742	0	0	435,742	11,507,982	0.22
2034	92,400	35,503	0	0	35,503	11,635,885	0.22
2035	217,700	92,688	717,450	305,462	398,150	11,946,273	0.23
2036	223,835	104,874	0	0	104,874	12,274,982	0.23
2037	264,500	135,580	0	0	135,580	12,675,062	0.24
2038	1,400	781	0	0	781	12,677,243	0.24
2039	9,200	5,563	0	0	5,563	12,692,006	0.24
2040	2,009,600	1,311,963	1,509,500	985,474	2,297,437	16,013,569	0.31
2041	0	0	114,501	80,429	80,429	16,013,569	0.31
2042	4,285,200	3,228,924	22,950	17,293	3,246,217	23,527,693	0.45

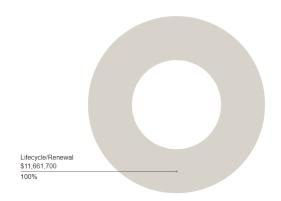
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Plan Types

Each line item in the cost database is assigned a Plan Type, which is the primary reason or rationale for the recommended replacement, repair, or other corrective action. This is the "why" part of the equation. A cost or line item may commonly have more than one applicable Plan Type; however, only one Plan Type will be assigned based on the "best" fit, typically the one with the greatest significance. Each of the Key Findings identified below are assigned a Plan Type.

Plan Type Descriptions	Plan Type Descriptions					
Safety	•	An observed or reported unsafe condition that if left unaddressed could result in injury; a system or component that presents potential liability risk.				
Performance/Integrity	•	Component or system has failed, is almost failing, performs unreliably, does not perform as intended, and/or poses risk to overall system stability.				
Accessibility	•	Does not meet ADA, UFAS, Safety and/or other handicap accessibility requirements.				
Environmental	•	Improvements to air or water quality, including removal of hazardous materials from the building or site.				
Retrofit/Adaptation		Components, systems, or spaces recommended for upgrades in in order to meet current standards, facility usage, or client/occupant needs.				
Lifecycle/Renewal	-	Any component or system that is not currently deficient or problematic but for which future replacement or repair is anticipated and budgeted.				

Plan Type Distribution (by Cost)



10-YEAR TOTAL: \$11,661,700



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SPAULDING UHS - MAIN BUILDING

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Immediate Needs

ID	Location Description	UF Code	Description	Condition	Plan Type	Cost
Total (0 items)	0	0	0	0	0	\$0
					Total	\$0

SPAULDING UHS - MAIN BUILDING

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Key Findings

No Key Findings Exist For This Facility



Equipment/Special

Site Pavement

Fire Alarm

Fair

Fair

Fair

2. Building and Site Information





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System Summary		
System	Description	Condition
Structure	Steel frame with concrete-topped metal decks over concrete pad column footings	Good
Facade	Primary Wall Finish: Brick Secondary Wall Finish: Metal siding Windows: Aluminum	Fair
Roof	Primary: Flat construction with single-ply TPO/PVC membrane Secondary: Flat construction with single-ply EPDM membrane	Fair
Interiors	Walls: Painted gypsum board, painted CMU, wood paneling, ceramic tile, stone Floors: Carpet, VCT, ceramic tile, quarry tile, wood strip, terrazzo, coated concrete Ceilings: Painted gypsum board and ACT, Unfinished/exposed	Fair
Elevators	Passenger: 1 hydraulic car serving all 3 floors	Fair
Plumbing	Distribution: Copper supply and cast-iron waste & venting Hot Water: Electric and indirect water heaters with integral tanks Fixtures: Toilets, urinals, and sinks in all restrooms	Fair
HVAC	Central System: Boilers, air handlers, feeding fan coil and hydronic baseboard radiators and cabinet terminal units Non-Central System: Packaged units, Split-system heat pumps Supplemental components: Suspended unit heaters	Fair
Safety and Security	Cameras, card readers, perimeter intrusion detection, security windows and doors, fencing, lighting, traffic gates. Multiple points of auto locking doors, main entry monitored, auto locking doors, internal locking on classroom doors, complete intercom system	Fair
Fire Suppression	Wet-pipe sprinkler system and fire extinguishers, and kitchen hood system	Fair
Electrical	Source & Distribution: Main switchboard with copper wiring Interior Lighting: LED and linear fluorescent Emergency Power: None	Fair

Site Development Property entrance signage; chain link fencing Playgrounds and sports fields and courts with bleachers, dugouts, press box, fencing, and site lights Heavily furnished with park benches, picnic tables, trash receptacles Landscaping & Topography Significant landscaping features including lawns, trees, bushes, and planters Irrigation present Low to moderate site slopes throughout Good Irrigation present Low to moderate site slopes throughout Utilities Municipal water and sewer Local utility-provided electric and natural gas and fuel oil tanks Good Building-mounted: LED Building-mounted: LED Building-mounted: LED Ancillary Structures Garages, Storage sheds, and greenhouse Fair Accessibility Presently it does not appear an accessibility study is needed for this property. Key Issues and Findings None observed at time of assessment.			
Tropography Irrigation present Low to moderate site slopes throughout Utilities Municipal water and sewer Local utility-provided electric and natural gas and fuel oil tanks Site Lighting Pole-mounted: LED Building-mounted: LED Building-mounted: LED Ancillary Structures Garages, Storage sheds, and greenhouse Fair Accessibility Presently it does not appear an accessibility study is needed for this property. Key Issues and None observed at time of assessment.	Site Development	Playgrounds and sports fields and courts with bleachers, dugouts, press box, fencing, and site lights	Fair
Local utility-provided electric and natural gas and fuel oil tanks Site Lighting Pole-mounted: LED Building-mounted: LED Ancillary Structures Garages, Storage sheds, and greenhouse Fair Accessibility Presently it does not appear an accessibility study is needed for this property. Key Issues and None observed at time of assessment.		Irrigation present	Good
Building-mounted: LED Ancillary Structures Garages, Storage sheds, and greenhouse Fair Accessibility Presently it does not appear an accessibility study is needed for this property. Key Issues and None observed at time of assessment.	Utilities		Fair
Accessibility Presently it does not appear an accessibility study is needed for this property. Key Issues and None observed at time of assessment.	Site Lighting		Good
Key Issues and None observed at time of assessment.	Ancillary Structures	Garages, Storage sheds, and greenhouse	Fair
key issues and	Accessibility	Presently it does not appear an accessibility study is needed for this property.	
	•	None observed at time of assessment.	

Alarm panel with smoke detectors, heat detectors, alarms, strobes, pull

Asphalt lots with limited areas of concrete aprons and pavement and adjacent

stations, back-up emergency lights, and exit signs

concrete sidewalks, curbs, ramps, and stairs

Commercial kitchen equipment



3. Supplemental Evaluations

Square Foot Verification

We have reviewed the square footage of 210,000 square feet and it is in the range of square foot calculations as reported by the school district. This confirmation of the square footage of the facility is based on the exterior wall dimensions and number of stories measured from Google Earth and other publicly available internet searches. This measurement may not reflect the actual heated square footage but provides a general size of the heated square feet of the overall building.

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PCB Air Indoor Testing

At the time of the onsite evaluation of this facility PCB air testing has not been conducted. Further ongoing information can be found on the Agency of Natural Resources PCB in Schools website Agency of Natural Resources PCB in Schools.

School Educational Capacity and Programming Space

As part of the FCA report, school administrative staff were asked to conduct a self-assessment of whether their school building meets their space, operational needs and if they have sufficient building capacity and appropriate spaces to deliver educational programming. The school responses to the survey are reported in Appendix D. The respondents indicated that the following areas were inadequate to meet current needs:

A space needs self-assessment was conducted by the school administrative staff which identified space constraints in the following areas:

- Adequate number of classrooms.
- Adequate overall building space.
- Confidential space to maintain FERPA, HIPPA or IEP requirements.
- Administrative offices and/or office space for staff.
- Cafeteria, kitchen and/or gymnasium space.

The Depleted Value Facility Condition Index (FCI) is an estimate of a building's overall amount of consumed system life. The Depleted Value FCI ratings scale indicates the estimated condition of the system. Generally, the higher the Depleted Value FCI, the greater the need to repair or replace a system. Note that the FCI can also be calculated for system groups, building types and other aggregations. The estimated percentage of collective system life left in a building, also referred to as Remaining Useful Life (RUL). The higher the RUL, the newer the system. The sum of Depleted Value FCI and RUL will equal 100%.

Depleted Value Index		
	Index Value	55.2%

System	Immediate	Short Term (1-2 yr)	Near Term (3-5 yr)	Med Term (6-10 yr)	Long Term (11-20 yr)	TOTAL
Structure	-	-	-	-	\$260,100	\$260,100
Facade	-	-	\$20,700	\$398,000	\$3,037,800	\$3,456,500
Roofing	-	-	-	\$1,478,300	\$36,100	\$1,514,400
Interiors	-	\$2,149,600	\$627,200	\$111,300	\$2,486,700	\$5,374,800
Conveying	-	\$9,500	\$5,800	\$91,300	\$14,900	\$121,600
Plumbing	-	-	\$44,400	\$142,600	\$4,298,500	\$4,485,500
HVAC	-	\$76,700	\$1,930,800	\$659,300	\$2,425,000	\$5,091,900
Fire Protection	-	-	\$252,900	\$15,100	\$7,100	\$275,100
Electrical	-	-	\$112,700	\$25,700	\$3,208,400	\$3,346,800
Fire Alarm & Electronic Systems	-	\$557,000	\$18,100	\$1,717,500	\$896,000	\$3,188,600
Equipment & Furnishings	-	\$144,200	\$480,000	\$234,200	\$509,200	\$1,367,500
Special Construction & Demo	-	-	-	\$41,500	\$347,900	\$389,400
Site Development	-	-	\$52,400	\$33,200	\$199,500	\$285,200
Site Pavement	-	\$85,900	-	\$99,600	\$1,303,200	\$1,488,800
Site Utilities	-	-	\$45,900	-	\$17,100	\$63,000
TOTALS	\$0	\$3,022,900	\$3,590,900	\$5,047,600	\$19,047,500	\$30,709,200



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4. Property Space Use and Observed Areas

Areas Observed

The interior spaces were observed to gain a clear understanding of the property's overall condition. Other areas accessed included the site within the property boundaries, the exterior of the property and the roofs.

Key Spaces Not Observed

All key areas of the property were accessible and observed



5. ADA Accessibility

Generally, Title II of the Americans with Disabilities Act (ADA) prohibits discrimination by entities to access and use of "areas of public accommodations" and "public facilities" on the basis of disability. Regardless of their age, these areas and facilities must be maintained and operated to comply with the Americans with Disabilities Act Accessibility Guidelines (ADAAG).

A public entity (i.e., city governments) shall operate each service, program, or activity so that the service, program, or activity, when viewed in its entirety, is readily accessible to and usable by individuals with disabilities.

However, this does not:

- Necessarily requires a public entity to make each of its existing facilities accessible to and usable by individuals with disabilities.
- Require a public entity to take any action that would threaten or destroy the historic significance of an historic property; or
- 3. Require a public entity to take any action that it can demonstrate would result in a fundamental alteration in the nature of a service, program, or activity or in undue financial and administrative burdens. In those circumstances where personnel of the public entity believe that the proposed action would fundamentally alter the service, program, or activity or would result in undue financial and administrative burdens, a public entity has the burden of proving that compliance with 35.150(a) of this part would result in such alteration or burdens. The decision that compliance would result in such alteration or burdens must be made by the head of a public entity or his or her designee after considering all resources available for use in the funding and operation of the service, program, or activity, and must be accompanied by a written statement of the reasons for reaching that conclusion. If an action would result in such an alteration or such burdens, a public entity shall take any other action that would not result in such an alteration or such burdens but would nevertheless ensure that individuals with disabilities receive the benefits or services provided by the public entity.

Removal of barriers to accessibility should be addressed from a liability standpoint in order to comply with federal law, but the barriers may or may not be building code violations. The Americans with Disabilities Act Accessibility Guidelines are part of the ADA federal civil rights law pertaining to the disabled and are not a construction code. State and local jurisdictions have adopted the ADA Guidelines or have adopted other standards for accessibility as part of their construction codes.

During the FCA, Bureau Veritas performed a limited high-level accessibility review of the facility non-specific to any local regulations or codes. The scope of the visual observation was limited to the same areas observed while performing the FCA and the categories set forth in the appendix. It is understood by the Client that the limited observations described herein do not comprise a full ADA Compliance Survey, and that such a survey is beyond the scope of this particular assessment. A full measured ADA survey would be required to identify any and all specific potential accessibility issues. Additional clarifications of this limited survey:

- This survey was visual in nature and actual measurements were not taken to verify compliance.
- Only a representative sample of areas was observed.
- Two overview photos were taken for each subsection regardless of perceived compliance or non-compliance.
- Itemized costs for individual non-compliant items are not included in the dataset.
- For any "none" boxes checked or reference to "no issues" identified, that alone does not guarantee full compliance.

The facility was originally constructed in 1956. The facility was renovated in 1994 and has widespread accessibility. No information about complaints or pending litigation associated with potential accessibility issues was provided during the interview process.

A detailed follow-up accessibility study is included as a recommendation based on the potential that specific ADA violations, not in this scope of services, may exist. Reference the appendix for specific data, photos, and tables or checklists associated with this limited accessibility survey.



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6. Purpose and Scope

Purpose

Bureau Veritas was retained by the client to render an opinion as to the Property's current general physical condition on the day of the site visit.

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Based on the observations, interviews and document review outlined below, this report identifies significant deferred maintenance issues, existing deficiencies, and material code violations of record, which affect the Property's use. Opinions are rendered as to its structural integrity, building system condition and the Property's overall condition. The report also notes building systems or components that have realized or exceeded their typical expected useful lives. The physical condition of building systems and related components are typically defined as being in one of five condition ratings. For the purposes of this report, the following definitions are used:

Condition Ratings	
Excellent	New or very close to new; component or system typically has been installed within the past year, sound and performing its function. Eventual repair or replacement will be required when the component or system either reaches the end of its useful life or fails in service.
Good	Satisfactory as-is. Component or system is sound and performing its function, typically within the first third of its lifecycle. However, it may show minor signs of normal wear and tear. Repair or replacement will be required when the component or system either reaches the end of its useful life or fails in service.
Fair	Showing signs of wear and use but still satisfactory as-is, typically near the median of its estimated useful life. Component or system is performing adequately at this time but may exhibit some signs of wear, deferred maintenance, or evidence of previous repairs. Repair or replacement will be required due to the component or system's condition and/or its estimated remaining useful life.
Poor	Component or system is significantly aged, flawed, functioning intermittently or unreliably; displays obvious signs of deferred maintenance; shows evidence of previous repair or workmanship not in compliance with commonly accepted standards; has become obsolete; or exhibits an inherent deficiency. The present condition could contribute to or cause the deterioration of contiguous elements or systems. Either full component replacement is needed, or repairs are required to restore to good condition, prevent premature failure, and/or prolong useful life.
Failed	Component or system has ceased functioning or performing as intended. Replacement, repair, or other significant corrective action is recommended or required.
Not Applicable	Assigning a condition does not apply or make logical sense, most commonly due to the item in question not being present.

Scope

The standard scope of the Facility Condition Assessment includes the following:

- Visit the Property to evaluate the general condition of the building and site improvements, review available construction
 documents to familiarize ourselves with, and be able to comment on, the in-place construction systems, life safety,
 mechanical, electrical, and plumbing systems, and the general-built environment.
- Identify those components that are exhibiting deferred maintenance issues and provide cost estimates for Immediate Costs and Replacement Reserves based on observed conditions, maintenance history and industry standard useful life estimates. This will include the review of documented capital improvements completed within the last five-year period and work currently contracted for, if applicable.
- Provide a full description of the Property with descriptions of in-place systems and commentary on observed conditions.
- Provide a high-level categorical general statement regarding the subject Property's compliance to Title III of the Americans with Disabilities Act. This will not constitute a full ADA survey but will help identify exposure to issues and the need for further review.
- Obtain background and historical information about the facility from a building engineer, property manager, maintenance staff, or other knowledgeable source. The preferred methodology is to have the client representative or building occupant complete a Pre-Survey Questionnaire (PSQ) in advance of the site visit. Common alternatives include a verbal interview just prior to or during the walk-through portion of the assessment.
- Review maintenance records and procedures with the in-place maintenance personnel.
- Observe a representative sample of the interior spaces/units, including vacant spaces/units, to gain a clear
 understanding of the property's overall condition. Other areas to be observed include the exterior of the property, the
 roofs, interior common areas, and the significant mechanical, electrical and elevator equipment rooms.
- Provide recommendations for additional studies, if required, with related budgetary information.
- Provide an Executive Summary at the beginning of this report, which highlights key findings and includes a Facility Condition Index as a basis for comparing the relative conditions of the buildings within the portfolio.





7. Opinions of Probable Costs

Cost estimates are attached throughout this report, with the Replacement Reserves in the appendix. These estimates are based on Invoice or Bid Document/s provided either by the Owner/facility and construction costs developed by construction resources such as R.S. Means, CBRE Whitestone, and Marshall & Swift, Bureau Veritas's experience with past costs for similar properties, city cost indexes, and assumptions regarding future economic conditions.

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Opinions of probable costs should only be construed as preliminary, order of magnitude budgets. Actual costs most probably will vary from the consultant's opinions of probable costs depending on such matters as type and design of suggested remedy, quality of materials and installation, manufacturer and type of equipment or system selected, field conditions, whether a physical deficiency is repaired or replaced in whole, phasing or bundling of the work (if applicable). quality of contractor, quality of project management exercised, market conditions, use of subcontractors, and whether competitive pricing is solicited, etc. Certain opinions of probable costs cannot be developed within the scope of this guide without further study. Opinions of probable cost for further study should be included in the FCA

Methodology

Based upon site observations, research, and judgment, along with referencing Expected Useful Life (EUL) tables from various industry sources, Bureau Veritas opines as to when a system or component will most probably necessitate replacement. Accurate historical replacement records, if provided, are typically the best source of information. Exposure to the elements, initial quality and installation, extent of use, the quality and amount of preventive maintenance exercised. etc., are all factors that impact the effective age of a system or component. As a result, a system or component may have an effective age that is greater or less than its actual chronological age. The Remaining Useful Life (RUL) of a component or system equals the EUL less its effective age, whether explicitly or implicitly stated. Projections of Remaining Useful Life (RUL) are based primarily on age and condition with the presumption of continued use and maintenance of the Property similar to the observed and reported past use and maintenance practices, in conjunction with the professional judgment of Bureau Veritas's assessors. Significant changes in occupants and/or usage may affect the service life of some systems or components.

Where quantities could not be or were not derived from an actual construction document take-off or facility walk-through. and/or where systemic costs are more applicable or provide more intrinsic value, budgetary square foot and gross square foot costs are used. Estimated costs are based on professional judgment and the probable or actual extent of the observed defect, inclusive of the cost to design, procure, construct and manage the corrections.

Definitions

Immediate Needs

Immediate Needs are line items that require immediate action as a result of: (1) material existing or potential unsafe conditions, (2) failed or imminent failure of mission critical building systems or components, or (3) conditions that, if not addressed, have the potential to result in, or contribute to, critical element or system failure within one year or will most probably result in a significant escalation of its remedial cost.

For database and reporting purposes the line items with RUL=0, and commonly associated with Safety or Performance/Integrity Plan Types, are considered Immediate Needs.

Replacement Reserves

Cost line items traditionally called Replacement Reserves (equivalently referred to as Lifecycle/Renewals) are for recurring probable renewals or expenditures, which are not classified as operation or maintenance expenses. The replacement reserves should be budgeted for in advance on an annual basis. Replacement Reserves are reasonably predictable both in terms of frequency and cost. However, Replacement Reserves may also include components or systems that have an indeterminable life but, nonetheless, have a potential for failure within an estimated time period.

Replacement Reserves generally exclude systems or components that are estimated to expire after the reserve term and are not considered material to the structural and mechanical integrity of the subject property. Furthermore, systems and components that are not deemed to have a material effect on the use of the Property are also excluded. Costs that are caused by acts of God, accidents, or other occurrences that are typically covered by insurance, rather than reserved for. are also excluded.

Replacement costs are solicited from ownership/property management. Bureau Veritas's discussions with service companies, manufacturers' representatives, and previous experience in preparing such schedules for other similar facilities. Costs for work performed by the ownership's or property management's maintenance staff are also considered.

Bureau Veritas's reserve methodology involves identification and quantification of those systems or components requiring capital reserve funds within the assessment period. The assessment period is defined as the effective age plus the reserve term. Additional information concerning systems or component's respective replacement costs (in today's dollars), typical expected useful lives, and remaining useful lives were estimated so that a funding schedule could be prepared. The Replacement Reserves Schedule presupposes that all required remedial work has been performed or that monies for remediation have been budgeted for items defined as Immediate Needs.

For the purposes of 'bucketizing' the System Expenditure Forecasts in this report, the Replacement Reserves have been subdivided and grouped as follows: Short Term (years 1-3), Near Term (years 4-5), Medium Term (years 6-10), and Long Term (years 11-20).

Kev Findings

In an effort to highlight the most significant cost items and not be overwhelmed by the Replacement Reserves report in its totality, a subsection of Key Findings is included within the Executive Summary section of this report. Key Findings typically include repairs or replacements of deficient items within the first five-year window, as well as the most significant high-dollar line items that fall anywhere within the ten-year term. Note that while there is some subjectivity associated with identifying the Key Findings, the Immediate Needs are always included as a subset.

Exceedingly Aged

A common scenario encountered during the assessment process, and a frequent source of debate, occurs when classifying and describing "very old" systems or components that are still functioning adequately and do not appear nor were reported to be in any way deficient. To help provide some additional intelligence on these items, such components will be tagged in the database as Exceedingly Aged. This designation will be reserved for mechanical or electrical systems or components that have aged well beyond their industry standard lifecycles, typically at least 15 years beyond and/or twice their Estimated Useful Life (EUL). In tandem with this designation, these items will be assigned a Remaining Useful Life (RUL) not less than two years but not greater than 1/3 of their standard EUL. As such the recommended replacement time for these components will reside outside the typical Short-Term window but will not be pushed 'irresponsibly' (too far) into the future.





8. STFM/STFAM Assessment

STEM and STEAM education is an integrated curriculum that is driven by exploratory project-based learning and studentcentered development of ideas and solutions. BV has evaluated the facility for the existence of spaces and systems to provide STEM/STEAM education based on input from the point of contact for the school. The below table identifies the required standards and to what degree the requirements have been met for the facility.

STEM/STEAM Evaluations							
Property Name	STEM/STEAM Suitability Score	Proje	ect Number	School Type	Square Footage		
Spaulding UHS - Main Building	79%	158982.22R000-305.379		High	210,000		
Suitability Classification	Scale		Score Value	Score Impa	ct		

Suitability Classification	Scale
Compares Poorly	Score 0 - 25
Compares Marginally	Score 25-50
Compares Fairly	Score 50-75
Compares Well	Score 75 - 100

Score Value	Score Impact
1- Meets	100%
2- Partial	50%
3- Missing	0%

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Details of the STEM/STEAM evaluation are included in the appendix of this report. Reference this appendix for specific data associated with this limited survey

9. Energy Audit

The purpose of this Energy Audit is to provide Spaulding UHS with a baseline of energy usage, the relative energy efficiency of the facility, and specific recommendations for Energy Conservation Measures. Information obtained from these analyses may be used to support a future application to an Energy Conservation Program, Federal and Utility grants towards energy conservation, as well as support performance contracting, justify a municipal bond-funded improvement program, or as a basis for replacement of equipment or systems.

The energy audit consisted of an on-site visual assessment to determine current conditions, itemize the energy consuming equipment (i.e. Boilers, Make-Up Air Units, DWH equipment); review lighting systems both exterior and interior; and review efficiency of all such equipment. The study also included interviews and consultation with operational and maintenance personnel. The following is a summary of the tasks and reporting that make up the Energy Audit portion of the report.

The following is a summary of the tasks and reporting that make up the Energy Audit portion of the report.

Energy and Water Using Equipment

• Bureau Veritas has surveyed the common areas, offices, maintenance facilities and mechanical rooms to document utility-related equipment, including heating systems, cooling systems, air handling systems and lighting systems.

Building Envelope

 Bureau Veritas has reviewed the characteristics and conditions of the building envelope, checking insulation values and conditions. This review also includes an inspection of the condition of walls, windows, doors, roof areas, insulation and special use areas.

Recommendations for Energy Savings Opportunities

 Based on the information gathered during the on-site assessment, the utility rates, as well as recent consumption data and engineering analysis, Bureau Veritas has identified opportunities to save energy and provide probable construction costs, projected energy/utility savings and provide a simple payback analysis.

Analysis of Energy Consumption

- Based on the information gathered during the on-site assessment, Bureau Veritas has conducted an analysis of the energy usage of all equipment, and identified which equipment is using the most energy and what equipment upgrades may be necessary. As a result, equipment upgrades, or replacements are identified that may provide a reasonable return on the investment and improve maintenance reliability.

Energy Audit Process

- Interviewing staff and review plans and past upgrades
- Performing an energy audit for each use type
- Performing a preliminary evaluation of the utility system
- Analyzing findings, utilizing ECM cost-benefit worksheets
- Making preliminary recommendations for system energy improvements and measures
- Estimating initial cost and changes in operating and maintenance costs based on implementation of energy efficiency
- · Ranking recommended cost measures, based on the criticality of the project and the largest payback



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10. Historical Energy and Water Performance Metrics

Utility Data Tabulation Methodology

Establishing the energy baseline begins with an analysis of the utility cost and consumption of the facility. Utilizing the historical energy data and local weather information, we evaluate the existing utility consumption and assign it to the various end-uses throughout the buildings. The Historical Data Analysis breaks down utilities by consumption, cost and annual profile.

This data is analyzed using standard engineering assumptions and practices. The analysis serves the following functions:

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- Allows our engineers to benchmark the energy and water consumption of the facilities against consumption of efficient buildings of similar construction, use and occupancy.
- · Generates the historical and current unit costs for energy and water
- Provides an indication of how well changes in energy consumption correlate to changes in weather.
- Reveals potential opportunities for energy consumption and/or cost reduction. For example, the analysis may indicate
 that there is excessive, simultaneous heating and cooling, which may mean that there is an opportunity to improve the
 control of the heating and cooling systems.

By performing this analysis and leveraging our experience, our engineers prioritize buildings and pinpoint systems for additional investigation during the site visit, thereby maximizing the benefit of their time spent on-site and minimizing time and effort by the customer's personnel.

No utility data was received by Bureau Veritas from the client at the time of report compilation. As a result, Bureau Veritas has used average utility costs from other VT Agency of Education properties to approximate the utility costs for this property. Bureau Veritas will update the report on receipt of the actual data from the client.

Utilities Metering at a	Glance
Number of electric meters observed	One
Number of gas meters observed	One
Number of central steam meters observed	None
Number of domestic water meters observed	One

		Average Utility Rates		
Electricity	Wood Chips	Natural Gas	No. 2 Oil	Water & Sewer
Average Rate	Average Rate	Average Rate	Average Rate	Blended Rate
\$0.18 / kWh (est.)	\$0.10 / Lb. (est.)	\$1.20 / therm (est.)	\$2.78 / Gal (est.)	\$16.11 / kGal (est.)

Electricity

Green Mountain Power provides electrical service to the facility

The consumption pattern likely remains relatively constant. Any seasonal variation in consumption is primarily attributed to periods when school is out of session, while the static base load primarily consists of domestic water heating, lighting, and appliances.

Note: No utility data was received by Bureau Veritas from the client at the time of report compilation. As a result, Bureau Veritas has used the electric rate from other properties within the same geographical region having similar construction layout and usage patterns. Bureau Veritas will update the report on receipt of the actual data from the client.



Wood Chips/Pellets

The wood chip fuel supplier to the facility was not provided. The deliveries are made on an as-needed basis. The primary use of wood chips is for space heating. Any seasonal variation in consumption is primarily attributed to the heating loads.

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Note: No utility data was received by Bureau Veritas from the client at the time of report compilation. As a result, Bureau Veritas has used the utility rates from other properties within the same geographical region having similar construction layout and usage patterns. Bureau Veritas will update the report on receipt of the actual data from the client.

Natural Gas

Vermont Gas provides natural gas to the facility.

The primary use of natural gas is for cooking. Any seasonal variation in consumption is primarily attributed to varying levels of cooking requirements based on weather and school being in session.

Note: No utility data was received by Bureau Veritas from the client at the time of report compilation. As a result, Bureau Veritas has used the utility rates from other properties within the same geographical region having similar construction layout and usage patterns. Bureau Veritas will update the report on receipt of the actual data from the client.





Propane or Fuel Oil

The fuel oil supplier to the facility was not provided. The deliveries are made on an as-needed basis.

The primary use of fuel oil is for space heating and domestic water heating. Any seasonal variation in consumption is primarily attributed to the heating loads, while the static base load primarily consists of domestic water heating.

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Note: No utility data was received by Bureau Veritas from the client at the time of report compilation. As a result, Bureau Veritas has used the utility rates from other properties within the same geographical region having similar construction layout and usage patterns. Bureau Veritas will update the report on receipt of the actual data from the client.

Water and Sewer

The Town of Barre satisfies the water and sewer requirements of the facility.

The water consumption pattern most likely remains more or less flat over the 10-month period that school is in session.

Note: No utility data was received by Bureau Veritas from the client at the time of report compilation. As a result, Bureau Veritas has used the utility rate from other properties within the same geographical region having similar construction layout and usage patterns. Bureau Veritas will update the report on receipt of the actual data from the client.



11. Energy Conservation Measures

Bureau Veritas has conducted an Energy Audit on Spaulding UHS. The study included a review of the building's construction features, historical energy and water consumption and costs, review of the building envelope, HVAC equipment, heat distribution systems, lighting, and the building's operational and maintenance practices.

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Bureau Veritas has evaluated five Energy Conservation Measures (ECMs) for this property. The savings for each measure are calculated using standard engineering methods followed in the industry, and detailed calculations for ECM are provided in Appendix H for reference. A 10% discount in energy savings was applied to account for the interactive effects amongst the ECMs. In addition to the consideration of the interactive effects, Bureau Veritas has applied a 15% contingency to the implementation costs to account for potential cost overruns during the implementation of the ECMs.

The following table summarizes the recommended ECMs in terms of description, investment cost, energy consumption reduction, and cost savings.

Recommended Non- Renewable Energy (Conservation Measures: Financial Impact
Total Projected Initial ECM Investment	\$130,859
Estimated Annual Cost Savings Related to ECMs	\$18,974
Net Effective ECM Payback	6.9 Years

Key Metrics to Benchmark the Subject Property's Energy Usage Profile

- <u>Building Site Energy Use Intensity</u> The sum of the total site energy use in thousands of Btu per unit of gross building
 area. Site energy accounts for all energy consumed at the building location only not the energy consumed during
 generation and transmission of the energy to the site.
- <u>Building Source Energy Use Intensity</u> The sum of the total source energy use in thousands of Btu per unit of gross building area. Source energy is the energy consumed during generation and transmission in supplying the energy to your site.
- Building Cost Intensity This metric is the sum of all energy use costs in dollars per unit of gross building area.
- <u>Greenhouse Gas Emissions</u> Although there are numerous gases that are classified as contributors to the total for Greenhouse Emissions, the scope of this energy audit focuses on carbon dioxide (CO₂). Carbon dioxide enters the atmosphere through the burning of fossil fuels (oil, natural gas, and coal), solid waste, trees and wood products, and also as a result of other chemical reactions (e.g., manufacture of cement).

Energy Conservation Measures Screening:

Bureau Veritas screens ECMs using the financial methodology below. ECMs which are considered financially viable must meet the criteria.

Simple Payback Period —The number of years required for the cumulative value of energy or water cost savings less future non-fuel or non-water costs to equal the investment costs of the building energy or water system, without consideration of discount rates. ECMs with a payback period greater than the Expected Useful Life (EUL) of the project are not typically recommended, as the cost of the project will not be recovered during the lifespan of the equipment. These ECMs are recommended for implementation during future system replacement. At that time, replacement may be evaluated based on the premium cost of installing energy efficient equipment.



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	Description of ECM	Location	Net Projected Initial Investment (\$)	Net Estimated Projected Annual Initial Savings Nat nvestment Gas (therms) (\$)	Estimated Estimated Annual Annual Savings Nat Savings #2 Oil Gas (therms) (Gal)	Estimated Annual Savings Electricity (kWh)	Estimated Annual Savings Water (KGal)	Total Energy Total Green Savings House Gas (MMBTU) Savings (MtCO²/Yr.)	Total Green House Gas Savings (MtCO²/Yr.)	Estimated Utility Cost Savings (\$)	Estimated Estimated Juliity Cost Annual O&M avings (\$) Savings (\$)	Total Estimated Annual Cost Savings (\$)	Simple Payback (Yrs)	Life Cycle Savings (\$)	Expected Useful Life (EUL) (Yrs)
Ħ	Replace Existing Unear Fluorescent Lamps; Replace 12x F4218 with F421ED, Replace 22x F4318 with F431ED, Replace 66x F4218 with F421ED; Replace 96x F4218 with F421ED; Replace 7x F4218 with F421ED	Location: Throughout building interiors	\$6,414	0.0	0:0	14,850.5	0.0	50.7	3.5	\$2,673	\$234	\$2,907	2.2	\$28,294	15
2	Install Low Flow Faucet Aerators, Replace 59x 1.5 GPM rated bathroom aerators with 0.5 GPM WaterSense certified aerators	Location: Restrooms, throughout building	\$895	0.0	59.6	0.0	13.4	8.3	9.0	\$166	0\$	\$382	2.3	\$2,366	10
т	Replace Incandescent/CFL /Halogen Lamps With LED Lamps; Replace 60 Screw In- CFL20 with 11W LED A19	Location: Auditorium	\$827	0.0	0.0	702.0	0:0	2.4	0.2	\$126	\$52	\$178	4.6	\$1,301	15
4	Re-Commission The Building & Its Control Systems; Improve building efficiency by 7% through re-commissioning	Location: Throughout building	\$93,133	0.0	5,600.0	0.0	0.0	775.6	56.7	\$15,568	0\$	\$15,568	6.0	\$92,716	15
2	Install Variable Frequency Drives (VFD); Install (2x) VFDs on 20HP motors	Location: Boiler room	\$12,521	0.0	0.0	11,370.8	0.0	38.8	2.7	\$2,047	0\$	\$2,047	6.1	\$11,913	15
Totals for	Totals for no/low cost items		\$1,722	0.0	59.6	702.0	13.4	10.7	0.8	\$292	\$52	\$561	3.1		
Total for	Total for capital cost		\$112,069	0.0	5,600.0	26,221.3	0.0	865.1	62.9	\$20,288	\$234	\$20,522	5.5		
Interactiv	Interactive Savings Discount @10%			0.0	-566.0	-2,692.3	-1.3	-87.6	-6.4	-\$2,058	-\$29	-\$2,108			
Total Con	Fotal Contingency Expenses @ 15%		\$17,069												
Totals fo	Totals for improvements		\$130,859	0.0	5,093.7	24,231.0	12.1	788.1	57.3	\$18,522	\$258	\$18,974	6.9		

12. Certification

Vermont Agency of Education, Phase Two (the Client) retained Bureau Veritas to perform this Facility Condition
Assessment in connection with its continued operation of Spaulding UHS - Main Building, 155 Ayers Street, Barre, VT
05641, the "Property". It is our understanding that the primary interest of the Client is to locate and evaluate materials and building system defects that might significantly affect the value of the property and to determine if the present Property has conditions that will have a significant impact on its continued operations.

The conclusions and recommendations presented in this report are based on the brief review of the plans and records made available to our Project Manager during the site visit, interviews of available property management personnel and maintenance contractors familiar with the Property, appropriate inquiry of municipal authorities, our Project Manager's walk-through observations during the site visit, and our experience with similar properties.

No testing, exploratory probing, dismantling, or operating of equipment or in-depth studies were performed unless specifically required under the *Purpose and Scope* section of this report. This assessment did not include engineering calculations to determine the adequacy of the Property's original design or existing systems. Although walk-through observations were performed, not all areas may have been observed (see Section 1 for specific details). There may be defects in the Property, which were in areas not observed or readily accessible, may not have been visible, or were not disclosed by management personnel when questioned. The report describes property conditions at the time that the observations and research were conducted.

This report has been prepared on behalf of and exclusively for the use of the Client for the purpose stated within the *Purpose and Scope* section of this report. The report, or any excerpt thereof, shall not be used by any party other than the Client or for any other purpose than that specifically stated in our agreement or within the *Purpose and Scope* section of this report without the express written consent of Bureau Veritas.

Any reuse or distribution of this report without such consent shall be at the Client and the recipient's sole risk, without liability to Bureau Veritas.

Prepared by: Bureau Veritas Technical Assessments



SPAULDING UHS - MAIN BUILDING

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13. Appendices

Photographic Record Appendix A:

Appendix B: Site Plans

Appendix C: Stem/Steam Assessment

Appendix D: School Educational Capacity and Programming Space

Appendix E: Accessibility Review & Photos Appendix F: Component Condition Report Appendix G: Replacement Reserves

Appendix H: Depleted Value Report

Appendix A: Photographic Record

SPAULDING UHS - MAIN BUILDING









2 - LEFT ELEVATION



3 - REAR ELEVATION



4 -RIGHT ELEVATION



5 - BOILER ROOM OVERVIEW PHOTO



6 - WOOD CHIP BOILER ROOM



7 - GYMNAISUM OVERVIEW PHOTO





9 - PHOTO OF AUDITORIUM FROM STAGE



11 - CAFETERIA OVERVIEW PHOTO



12 - WORKOUT ROOM OVERVIEW

Photographic Overview



13 - HOME ECONOMICS CLASSROOM



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14 - LABORATORY CLASSROOM OVERVIEW



15 - STANDARD TEACHING CLASSROOM OVERVIEW



16 - OVERVIEW OF AVERAGE HALLWAY



17 - PHOTO OF COSMETOLOGY CLASSROOM



18 - OVERVIEW OF AUTOMOTIVE SHOP





19 - OVERVIEW OF LOCKER ROOM



20 - OVERVIEW OF CHORUS ROOM



21 - OVERVIEW OF LIBRARY



22 - OVERVIEW OF SHOP SPACE



23 - TEACHING KITCHEN OVERVIEW PHOTO



24 - OFFICE

Appendix B: Site Plans





Project Name	Project Number		
Vermont Agency of Education	158982.22R000-305.379		
	Spaulding High School Main Building		
Source	On-Site Date		
Google MyMaps	August 1-4, 2023		

SPAULDING UHS - MAIN BUILDING

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Appendix C: Stem/Steam Assessment



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STEM/STEAM Evaluation

Property Name	STEM/STEAM Suitability Score	Project Number	School Type	Square Footage
Spaulding UHS - Main Building	79%	158982.22R000-305.379	High	210,000

Suitability Classification	Scale
Compares Poorly	Score 0 - 25
Compares Marginally	Score 25-50
Compares Fairly	Score 50-75
Compares Well	Score 75 - 100

Score Value	Score Impact
1- Meets	100%
2- Partial	50%
3- Missing	0%

Rooms to support STEM/STE	AM Curriculum	- X= Require	d by School	Туре
Room Types	Room Present (Yes/No)	Elementary School	Middle School	High School
Does the facility have an Art Room?	Yes	Х	Х	Х
Does the facility have a Science Lab?	Yes		Х	Х
Does the facility have a Shop (Machine, Wood, Metal, etc.)?	Yes		Х	Х
Does the facility have a Computer Lab?	Yes	Х	Х	Х
Does the facility have a dedicated STEM/STEAM Room?	Yes	Х	Х	Х

		Ove	erall Complia	ince	
Questions	Art Room	Science Labs	Shops	Computer Lab	STEM/STEAM
Does the room have chemical resilient perimeter counters with a minimum of two sinks, one being ADA accessible?	1- Meets	1- Meets	2- Partial		1- Meets
Does the room have electrical outlet distribution along perimeter walls and from the ceiling?	2- Partial	2- Partial	1- Meets	2- Partial	2- Partial
Does the room have open shelving and lockable storage cabinets?	1- Meets	1- Meets	1- Meets		1- Meets
Does the room have technology connectivity and an interactive display?	1- Meets	1- Meets	2- Partial	1- Meets	1- Meets
Does the room have appropriate wet floor finishes?	1- Meets	1- Meets	1- Meets		1- Meets
Does the room have visual display boards?	1- Meets	1- Meets	1- Meets	1- Meets	1- Meets
Does the room have Prep/Storage Room?	1- Meets	1- Meets	1- Meets	1- Meets	1- Meets
Does the room have direct access to the exterior?	3- Missing	2- Partial	1- Meets		3- Missing
Does the room the ability to structurally suspend items from the ceiling?	3- Missing	3- Missing	1- Meets		3- Missing
Does the have goggle cabinets, fire extinguisher, eye wash and deluge shower?	2- Partial	2- Partial	1- Meets		2- Partial
Room Type Score	70%	75%	90%	88%	70%

SPAULDING UHS - MAIN BUILDING

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Appendix D:

School Educational Capacity and Programming Space



School Educational Capacity and Programming Space

As part of Act 72, AOE has contracted with Bureau Veritas (BVNA) to complete a Facility Condition Assessment (FCA) of very public school building in Vermont. One component of the FCA report will be to identify whether the size and configuration of your current facility is meeting your school's educational and operational needs. In order for us to accurately capture your facility space needs, it is necessary for the AOE and BVNA to receive your input. To complete this brief survey, we recommend that you consult with school building leadership and facilities/custodial staff.

School Name

Spaulding Union High School

SU/SD

Barre Supervisory Union

Does the school have an adequate number of classrooms to meet student enrollment needs?

Yes

Please provide some explanation and/or context (known needs, barriers, other constraints outside of space, etc.):

Yes we have adequate space.

Does the school have adequate space to accommodate all the current educational programs being offered?

Yes

Please describe capacity of your school building(s) to deliver educational programming:

We have had declining enrollment.

Would the school provide additional programming if available space was provided?

Yes

More students staying in the school setting if there were more space.

Does the school have adequate confidential space to provide 1:1 services to students as required to maintain FERPA, HIPPA or IEP requirements?

Yes

Please describe:

No

Do the school have adequate administrative offices and/or office space for staff?

No

Please describe:

Yes

Based on the size of enrollment does the size of the cafeteria, kitchen and gymnasium meet the current and future enrollment needs?

No

Please describe:

Yes

Appendix E: Accessibility Review & Photos



Visual Survey - ADA Standards for Accessible Design

Property Name:	Spaulding High School	

BV Project Number: 158982.22R000-305.379

Facility History & Interview	N			
Question	Yes	No	Unk	Comments
ADA: Has an accessibility study been performed at the site? If so, when?			х	
ADA: If a study has occurred, have the associated recommendations been addressed? In full or in part?			х	
3. ADA: Have there been regular complaints about accessibility issues, or previous or pending litigation?			х	

Building : Accessit	oility Issues			
Category	Major Issues (ADA study recommended)	Moderate Issues (ADA study recommended)	Minor Issues	None*
Parking				None
Exterior Route				None
Building Entrances				None
Interior Route				None
Elevators				None
Public Restrooms				None

^{*}Be cognizant that if the "None" box is marked that does not guarantee full compliance; this study is limited in nature



1 - OVERVIEW OF ACCESSIBLE PARKING AREA



2 - 2ND ACCESSIBLE PARKING AREA



3 - PRIMARY PATH OF TRAVEL



4 - CURB CUT



5 - MAIN ACCESSIBLE ENTRANCE



6 - SIGNAGE/HARDWARE



7 - ACCESSIBLE INTERIOR PATH



8 – INTERIOR PATH DOOR HARDWARE



9 - TOILET STALL OVERVIEW



10 - SINK, FAUCET HANDLES or ACCESSORIES



13 - LOBBY VIEW OF CABS, WITH DOORS OPEN



14 - IN-CAB CONTROLS/EMERGENCY CALL PANEL

The table below is intended to be used as a general reference guide to help differentiate the orders of magnitude between some of the more commonly observed accessibility issues. The table is not intended to be all-inclusive, and boxes checked in the tables above do not necessarily mean those specific problems or shortcomings cited as examples below exist at the subject buildings and sites. Reference the data and photos above and/or the *Key Findings* section in the body of the report for visuals and/or more specifics about the particular subject site conditions.

Reference Guide			
	Major Issues	Moderate Issues	Minor Issues
Parking	(ADA study recommended) - Needs full reconstruction - Excessive slopes over 3% require major re-grading - No level locations to add required spaces	(ADA study recommended) - No or non-compliant curb cuts - Moderate difficulty to add required accessible spaces - Slopes close to compliant	Painting of markings needed Signage height non-compliant Signage missing
Exterior Route	Large areas of sidewalks with excessive slopes No ramp when needed Ramps with excessive slopes	- Ramps need rails - Ramps need rail extensions - All or most entrance door exterior maneuvering clearance areas with excessive slopes	One entrance door exterior maneuvering clearance area with excessive slope Non-compliant signage
Building Entrances	No compliant entrance exists Exterior entry door/s not wide enough Entrance vestibule requires complete reconstruction / reconfiguration due to clearance	Need significant # of lever handles Need to add or modify automatic door opener Entrance vestibule requires limited reconfigurations	A few doorknobs instead of lever handles Non-compliant door threshold
Interior Route	- All or most interior doors appear less than 32" wide - Corridors less than 36" wide - No ramp when needed - Ramps with excessive slopes - Non-compliant treads/risers at means of egress stairways	- Single height drinking fountains - Drinking fountain too high or protrudes into accessible route - Ramps need rails - Ramps need rail extensions - Need significant # of lever handles - Non-compliant rail extensions at egress stainways - All/most door thresholds high	One door threshold too high A few doorknobs instead of lever handles Non-compliant Door pressures Non-compliant signage Switches not within reach range
Elevators	No elevator present when required Elevator cab too small	Panel control buttons not at compliant height No hands-free emergency communication system Elevator only has mechanical stops	- Audible/visual signals at every floor may be lacking - Minor signage / Braille issues

	Major Issues	Moderate Issues	Minor Issues
	(ADA study recommended)	(ADA study recommended)	
Public Restrooms	- No ADA RR on each accessible floor - Restroom(s) too small - Entire restroom(s) requires renovation - Water closet clearance requires moving walls	- Interior doors appear less than 32" wide - Missing or non-compliant grab bars - Easily fixable clearance issues	- Minor height adjustments required - Non-compliant door pressures - Missing a visual strobe (only required if audible fire alarm already present) - Missing lavatory pipe wraps - Signage not compliant
Kitchens/Kitchenettes	Clear space for each appliance not present Clearance between opposing counters too narrow	- Sink and counter too high - Sink knee and toe clearance not provided where required (built-in) - Less than 50% of cabinetry within reach range	Dispensers not within reach range Switches not within reach range Missing sink pipe wraps if knee and toe clearance required
Playgrounds & Pools	Large areas of surfacing non- compliant Install compliant play structures No pool lift provided	Small area/s of surfacing or equipment non-compliant Moderate issues with path of travel to playground/pool	- Minor issues with path of travel to playground/pool

Appendix F:
Component Condition Report



UF L3 Code	Location	Category	Condition	Asset/Component/Repair	Quantity	Unit	Z.	_
Structure								
B1080	Stairwells	Structure	Fair	Stairs, Metal or Pan-Filled, Interior	3,000	SF	20	6895262
Facade								
B2010	Building Exterior	Facade	Fair	Exterior Walls, Brick Veneer	61,820	SF	20	6895206
B2010	Building Exterior	Facade	Fair	Exterior Walls, Metal/Insulated Sandwich Panels	23,740	SF	24	6895293
B2010	Building Exterior	Facade	Fair	Exterior Walls, Metal/Insulated Sandwich Panels	6,300	JS	54	6895196
B2020	Building Exterior	Facade	Fair	Window, Aluminum Double-Glazed, 16-25 SF	263		6	6895330
B2050	Building Exterior	Facade	Fair	Overhead/Dock Door, Steel, 20'x14' (280 SF)	2		2	6895370
				Exterior Door, Aluminum-Framed & Glazed, Standard				
B2050	Building Exterior	Facade	Fair	Swing	12		6	6895283
B2050	Building Exterior	Facade	Fair	Exterior Door, Steel, Standard	22		19	6895168
B2050	Building Exterior	Facade	Fair	Exterior Door, Wood, Solid-Core	8		ĸ	6895337
B2050	Building Exterior	Facade	Fair	Overhead/Dock Door, Aluminum, 12'x12' (144 SF)	6		6	6895245
Roofing								
B3010	Roof	Roofing	Fair	Roofing, Single-Ply Membrane, EPDM	2,300		12	6895228
B3010	Roof	Roofing	Fair	Roofing, Single-Ply Membrane, EPDM	15,000	SF	10	6895236
B3010	Roof	Roofing	Fair	Roofing, Single-Ply Membrane, TPO/PVC	55,000		10	6895268
Interiors								
C1030	Throughout building	Interiors	Fair	Interior Door, Steel, Standard	105		17	6895350
C1030	Throughout building	Interiors	Fair	Interior Door, Steel, w/ Extensive Glazing	20		17	6895274
C1070	Throughout building	Interiors	Fair	Suspended Ceilings, Acoustical Tile (ACT)	210,000	SF	7	6895349
C1090	Hallways	Interiors	Fair	Lockers, Steel-Baked Enamel, 12" W x 15" D x 72" H	400		2	6895316
C2010	Hallways	Interiors	Fair	Wall Finishes, Ceramic Tile	2,000	SF	17	6895222
C2010	Locker room	Interiors	Fair	Wall Finishes, Ceramic Tile	1,000	SF	19	6895248
				Wall Finishes, Wood Paneling, Raised Architectural				
C2010	Auditorium	Interiors	Fair	Wainscot	2,500		10	6895242
C2010	Throughout building	Interiors	Fair	Wall Finishes, any surface, Prep & Paint	325,000	SF	2	6895218
C2010	Hallway	Interiors	Fair	Wall Finishes, Granite Veneer	750	JS	67	6895352
C2030	Cosmetology	Interiors	Fair	Flooring, Laminate Faux Wood	2,000	SF	4	6895345
C2030	Auditorium	Interiors	Fair	Flooring, Wood, Strip	2,000	JS	11	6895179
C2030	Restrooms	Interiors	Fair	Flooring, Ceramic Tile	200	JS	5	6895320
000		5 6 7 8	.3	find 0 mond to have a solution to the solution of the solution	001	Ŀ	c	1000
(2030	Bollet Loom		La L	noung, any surface, w/ raint of seafailt, riep & raint			7	/ 6T C600
C2030	Inroughout building	Interiors	Fair	Hooring, lerrazzo	20,000		٠,	6895281
C2030	Careteria	Interiors	Fall	Flooring, ceramic lile	3,000		FT.	0832740
C2030	Kitchen	Interiors	Fair	Flooring, Quarry Tile	2,000		2	6895307
C2030	Storage	Interiors	Fair	Flooring, Vinyl Tile (VCT), w/ Asbestos Abatement	500		2	6895217
C2030	Throughout building	Interiors	Fair	Flooring, Vinyl Tile (VCT)	152,000	SF	2	6895339
C2030	Throughout building	Interiors	Fair	Flooring, Carpet, Commercial Standard	5,000		2	6895176
Conveying								
D1010	Elevator	Conveying	Fair	Elevator Controls, Automatic, 1 Car	1		2	6895161
D1010	Elevator	Conveying	Fair	Passenger Elevator, Hydraulic, 3 Floors, Renovate	1		6	6895275
D1010	Elevator	Conveying	Fair	Elevator Cab Finishes, Standard	1		7	6895361
Plumbing			<u> </u>					

UF L3 Code	Location	Category	Condition	Asset/Component/Repair	Quantity Unit	iit RUL	<u>ا</u>
D2010	Restroom	Plumbing	Fair	Toilet, Commercial Water Closet	52	7	6895336
D2010	Hallways	Plumbing	Fair	Drinking Fountain, Wall-Mounted, Single-Level	1	_	6895276
D2010	Boiler room	Plumbing	Fair	Pump, Circulation, Domestic Water	2	7	6895288
D2010	Teaching Kitchen	Plumbing	Fair	Sink/Lavatory, Commercial Kitchen, 3-Bowl	2	6	6895356
D2010	Boiler room	Plumbing	Good	Water Heater, Electric, Commercial (36 kW)	1	14	6895169
D2010	Throughout building	Plumbing	Fair	Sink/Lavatory, Service Sink, Laundry	2	17	6895253
D2010	Kitchen	Plumbing	Fair	Sink/Lavatory, Commercial Kitchen, 2-Bowl	1	6	6895327
D2010	Locker room	Plumbing	Fair	Shower, Valve & Showerhead	13	6	6895213
D2010	Labs	Plumbing	Good	Sink/Lavatory, Trough Style, Solid Surface	14	22	9983889
D2010	Kitchen	Plumbing	Fair	Sink/Lavatory, Commercial Kitchen, 1-Bowl	3	17	6895328
D2010	Utility closet	Plumbing	Fair	Sink/Lavatory, Service Sink, Wall-Hung	1	22	6895368
D2010	Kitchen	Plumbing	Fair	Emergency Plumbing Fixtures, Eye Wash	1	7	6895189
D2010	Kitchen	Plumbing	Fair	Sink/Lavatory, Commercial Kitchen, 1-Bowl	1	6	6895259
D2010	Restrooms	Plumbing	Fair	Urinal, Standard	21	17	6895378
D2010	Boiler room	Plumbing	Fair	Water Heater, Indirect	3	3	6895237
D2010	Cosmetology	Plumbing	Fair	Water Heater, Electric, Residential, 53 to 120 GAL	1	4	6895375
D2010	Boiler room	Plumbing	Fair	Pump, Circulation, Domestic Water, 1 HP	4	1	6895250
D2010	Restroom	Plumbing	Fair	Sink/Lavatory, Wall-Hung, Vitreous China	53	17	6895365
D2010	Gymnasium	Plumbing	Fair	Water Heater, Oil	1	2	6895202
				Plumbing System, Supply & Sanitary, Medium Density			
D2010	Throughout building	Plumbing	Fair	(excludes fixtures)	210,000 SF		-
D2010	Utility closet	Plumbing	Fair	Sink/Lavatory, Service Sink, Floor	1	14	6895286
02010	Restrooms	D	ī.	Sink/Lavatory, Vanity Top, Solid Surface or Vitreous	ŭ	17	6895379
01070		Silicing	5	Sunalemental Components Compressed Air Dozer	>	1	+
D2060	Boiler room	Plumbing	Fair	Support	1	7	6895249
D2060	Boiler room	Plumbing	Fair	Air Compressor, Tank-Style	1	4	6895277
D2060	Boiler room	Plumbing	Fair	Air Compressor, Tank-Style	1	3	6895182
HVAC							
				Supplemental Components, Tank Monitoring System,			
D3010	Boiler room	HVAC	Fair	Fuel Oil	1	7	6895319
D3010	Boiler room	HVAC	Fair	Pump, Fuel Oil	3	2	
D3010	Boiler room	HVAC	Fair	Storage Tank, Fuel, Interior	1	12	
D3020	Boiler room	HVAC	Fair	Unit Heater, Electric	1	7	6895227
D3020	Throughout building	HVAC	Fair	Radiator, Hydronic, Baseboard (per LF)	800 LF	F 5	
D3020	Gymnasium	HVAC	Fair	Boiler, Oil, HVAC	1	7	6895165
				Replace Energy Recovery Ventilator 180 to 315 CFM,			
D3020	Roof	HVAC	Fair	Energy Recovery	1	3	
D3020	Roof	HVAC	Good	Air Ventilator, Energy Recovery Unit, up to 6500 CFM	3	13	6895338
D3020	Boiler room	HVAC	Fair	Wood Pellet Boiler, Hopper and Chute Feeder	1	3	6895164
D3020	Roof	HVAC	Good	Air Ventilator, Energy Recovery Unit, up to 6500 CFM	2	13	_
D3020	Roof	HVAC	Fair	Air Ventilator, Energy Recovery Unit, up to 6500 CFM	1	3	
D3020	Boiler room	HVAC	Fair	Boiler, Gas, HVAC, 2001 to 2500 MBH	1	6	6895296
D3020	Boiler room	HVAC	Fair	Boiler Supplemental Components, Expansion Tank	1	25	
D3020	Boiler room	HVAC	Fair	Boiler, Oil, HVAC	1	2	
D3020	Boiler room	HVAC	Fair	Boiler, Oil, HVAC	1	3	6895203

UF L3 Code	Location	Category	Condition	Asset/Component/Repair	Quantity	Unit RUL	_	_
D3020	Boiler room	HVAC	Fair	Unit Heater, Hydronic	1	,	3 6	6895156
D3020	Gymnasium	HVAC	Fair	Unit Heater, Hydronic	1	,	3 68	6895264
D3020	Boiler room	HVAC	Fair	Heat Exchanger, Plate & Frame, HVAC	1	1	14 68	6895220
D3020	Gymnasium	HVAC	Fair	Heat Exchanger, Plate & Frame, HVAC	1	1	12 68	6895377
D3020	Shops	HVAC	Fair	Unit Heater, Hydronic	1		2 68	6895188
D3030	Classrooms	HVAC	Fair	Unit Ventilator, approx/nominal 2 Ton	20	1	13 68	805308
D3030	Roof	HVAC	Fair	Split System Ductless, Single Zone, 0.75 to 1 TON	4	-	7 6	6895219
D3030	Roof	HVAC	Fair	Split System Ductless, Single Zone, 2.5 to 3 TON	1	-	7 6	6895312
D3050	Roof	HVAC	Fair	Packaged Unit, RTU, Pad or Roof-Mounted	1	1	10 68	6895235
D3050	Roof	HVAC	Fair	Packaged Unit, RTU, Pad or Roof-Mounted	1	1	10 68	6895170
D3050	Boiler room	HVAC	Fair	Air Handler, Interior AHU, Easy/Moderate Access	1		2 68	6895297
D3050	Boiler room	HVAC	Good	Pump, Distribution, HVAC Heating Water	2	2	24 68	6895254
D3050	Throughout building	HVAC	Fair	HVAC System, Hydronic Piping, 2-Pipe	210,000	SF 1	19 68	6895190
D3050	Gymnasium	HVAC	Fair	Pump, Distribution, HVAC Heating Water	2		2 68	6895200
D3050	Gymnasium	HVAC	Fair	Air Handler, Interior AHU, Easy/Moderate Access	4	-	2 6	6895266
D3050	Shops	HVAC	Fair	Air Handler, Interior AHU, Easy/Moderate Access	1	1	12 68	6895332
D3050	Roof	HVAC	Fair	Packaged Unit, RTU, Pad or Roof-Mounted	1	1	10 68	6895181
D3050	Boiler room	HVAC	Fair	Pump, Distribution, HVAC Heating Water	2	7	4 68	6895376
D3050	Locker room	HVAC	Fair	Air Handler, Interior AHU, Easy/Moderate Access	1	1	16 68	6895243
D3050	Boiler room	HVAC	Good	Pump, Distribution, HVAC Heating Water	2	2	23 68	6895158
D3050	Throughout building	HVAC	Fair	HVAC System, Ductwork, Medium Density	210,000	SF 5	5 68	6895364
D3050	Auditorium	HVAC	Fair	Air Handler, Interior AHU, Easy/Moderate Access	2	,	3 68	6895267
D3050	Attic	HVAC	Fair	Air Handler, Interior AHU, Easy/Moderate Access	1	۵,	5 68	6895205
D3050	Roof	HVAC	Fair	Packaged Unit, RTU, Pad or Roof-Mounted	2	1		6895314
D3050	Roof	HVAC	Fair	Packaged Unit, RTU, Pad or Roof-Mounted	1	1		6895224
D3060	Roof	HVAC	Fair	Exhaust Fan, Roof or Wall-Mounted, 10" Damper	5	1	10 6	6895210
D3060	Roof	HVAC	Fair	Exhaust Fan, Centrifugal, 12" Damper	1	1	15 68	6895334
D3060	Roof	HVAC	Fair	Exhaust Fan, Roof or Wall-Mounted, 12" Damper	10	1	10 68	6895175
D3060	Roof	HVAC	Fair	Exhaust Fan, Roof or Wall-Mounted, 16" Damper	2	1		6895324
D3060	Roof	HVAC	Fair	Exhaust Fan, Roof or Wall-Mounted, 16" Damper	1	1	11 68	6895325
D3060	Kitchen	HVAC	Fair	Exhaust Fan, Propeller, less than 0.25 HP Motor	1	,	3 68	6895347
D3060	Shops	HVAC	Fair	Supplemental Components, Air Purifier, Electrostatic	5	,	2 68	6895246
D3060	Roof	HVAC	Fair	Exhaust Fan, Roof or Wall-Mounted, 12" Damper	9	1	10 68	6895363
D3060	Roof	HVAC	Fair	Exhaust Fan, Roof or Wall-Mounted, 16" Damper	4	1	10 68	6895215
D3060	Roof	HVAC	Fair	Exhaust Fan, Roof or Wall-Mounted, 12" Damper	2	1	10 68	6895177
D3060	Boiler room	HVAC	Fair	Exhaust Fan, Centrifugal, 16" Damper	1	7	4 68	6895284
D3060	Roof	HVAC	Fair	Axial Flow Fan, In-Line, up to 1 HP Motor	1	~	8 8	6895342
D3060	Boiler room	HVAC	Fair	Exhaust Fan, Centrifugal, 24" Damper	1	7	4 68	6895323
D3060	Roof	HVAC	Fair	Exhaust Fan, Roof or Wall-Mounted, 10" Damper	10	1	10 68	6895225
D3060	Roof	HVAC	Fair	Exhaust Fan, Roof or Wall-Mounted, 16" Damper	1	1	10 68	6895258
D3060	Roof	HVAC	Fair	Exhaust Fan, Roof or Wall-Mounted, 12" Damper	2	5	89 6	6895344
D3060	Roof	HVAC	Fair	Exhaust Fan, Roof or Wall-Mounted, 28" Damper	1	1	10 68	6895172
Fire Protection	uc							
		;		Fire Suppression System, Commercial Kitchen, per LF of				
D4010	Kitchen	Fire Protection	Fair	Hood	20	٠ <u>٠</u> ۳	7 68	6895357

UF L3 Code	Location	Category	Condition	Asset/Component/Repair	Quantity	Unit	RUL	QI
D4010	Throughout building	Fire Protection	Fair	Fire Suppression System, Existing Sprinkler Heads, by SF	210,000	SF	4	6895346
D4030	Kitchen	Fire Protection	Good	Fire Extinguisher, Wet Chemical/CO2	1		6	6895301
D4030	Throughout building	Fire Protection	Good	Fire Extinguisher, Type ABC, up to 20 LB	25		6	6895298
Electrical								
D5020	Boiler room	Electrical	Fair	Distribution Panel, 120/208 V	1		3	6895247
D5020	Shops	Electrical	Fair	Distribution Panel, 120/208 V	1		6	6895295
D5020	Electrical room	Electrical	Fair	Secondary Transformer, Dry, Stepdown	1		6	6895287
D5020	Electrical room	Electrical	Fair	Switchboard, 120/208 V	1		5	6895174
D5020	Boiler room	Electrical	Fair	Distribution Panel, 120/208 V	1		6	6895194
D5030	Boiler room	Electrical	Fair	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1		3	6895289
05030	Throughout building	T contricts	i c	Electrical System, Wiring & Switches, High	210.000	5	10	6895377
	0		3	Variable Frequency Drive, VFD, by HP of Motor,	000/017	5	3	
D5030	Boiler room	Electrical	Fair	Replace/Install	1		3	6895373
D5040	Throughout building	Electrical	Good	Interior Lighting System, Full Upgrade, High Density & Standard Fixtures	210,000	SF	17	6895159
Fire Alarm &	Fire Alarm & Electronic Systems							
0909Q	Throughout building	Fire Alarm & Electronic Systems	Fair	Intercom/PA System, Public Address Upgrade, Facility- Wide	210,000	SF	7	6895278
D7030	Throughout building	Fire Alarm & Electronic Systems	Fair	Security/Surveillance System, Full System Upgrade, Average Density	210,000	SF	7	6895192
D7050	Front entrance	Fire Alarm & Electronic Systems	Fair	Fire Alarm Panel, Annunciator	1		3	6895348
D7050	Throughout building	Fire Alarm & Electronic Systems	Fair	Fire Alarm System, Full System Upgrade, Standard Addressable, Upgrade/Install	210,000	SF	7	6895252
D7050	Front entrance	Fire Alarm & Electronic Systems	Fair	Fire Alarm Panel, Fully Addressable	1		3	6942094
D8010	Throughout building	Fire Alarm & Electronic Systems	Fair	BAS/HVAC Controls, Basic System or Legacy Upgrades, Upgrade/Install	210,000	SF	2	6895290
Equipment & Furnishings	Furnishings							
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Walk-In, Refrigerator	1		3	6882328
E1030	Kitchen	Equipment & Furnishings	Good	Foodservice Equipment, Dairy Cooler/Wells	4		12	6895270
	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Exhaust Hood, 8 to 10 LF	1		3	6895223
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Dishwasher Commercial	1		2	6895331
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Walk-In, Evaporator for Refigerator/Freezer	1		2	6895272
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Exhaust Hood, 8 to 10 LF	1		7	6895279
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Refrigerator, 2-Door Reach-In	1		7	6895353
E1030	Teaching Kitchen	Equipment & Furnishings	Good	Foodservice Equipment, Refrigerator, 1-Door Reach-In	1		12	6895265
E1030	Kitchen	Equipment & Furnishings	Good	Foodservice Equipment, Steam Kettle	1		17	6895154
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Convection Oven, Double	1		2	6895257
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Dishwasher Commercial	1		2	6895238
	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Range/Oven, 8-Burner	1		7	6895163
E1030	Kitchen	Equipment & Furnishings	Good	Foodservice Equipment, Convection Oven, Single	2		7	6895204

Cabinet on Wheels Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich
Table Refrigerated,
Q I
Salad/Sandwich
Fair Salad/Sand
Equipment & Furnishings
Equ

UF L3 Code	Location	Category	Condition	Asset/Component/Repair	Quantity	Unit	RUL	Q
E2010	Classrooms	Equipment & Furnishings	Fair	Casework, Cabinetry Economy	009	-F	7	6895300
E2010	Gymnasium	Equipment & Furnishings	Fair	Bleachers, Telescoping Power-Operated, up to 15 Tier (per Seat)	200		ĸ	6895214
E2010	Site	Equipment & Furnishings	Fair	Bleachers, Fixed Steel Frame, Aluminum Benches (per Seat)	120		2	6895269
E2010	Auditorium	Equipment & Furnishings	Fair	Fixed Seating, Auditorium/Theater, Metal Cushioned Standard	009		m	6942095
Special Const	Special Construction & Demo							
	***			Shed/Gazebo/Shade Structure, Wood or Metal-Framed,				0
F1020	Site	Special Construction & Demo	Fair	Basic/Minimal	200	r.	7	6895321
F1020	Site	Special Construction & Demo	Fair	Shed/Gazebo/Shade Structure, Wood or Metal-Framed, Basic/Minimal	300	'n	7	6895335
				Shed/Gazebo/Shade Structure, Wood or Metal-Framed,				
F1020	Site	Special Construction & Demo	Fair	Standard	300	SF	7	6895191
F1020	site	Special Construction & Demo	Fair	Ancillary Building, Wood-Framed or CMU, Standard	2,300	SF	14	6895315
				Shed/Gazebo/Shade Structure, Wood or Metal-Framed,	001		ı	
F1020	Site	Special Construction & Demo	Fair	Basic/Minimal	100	SF.	7	6895251
F1020	Site	Special Construction & Demo	ie r	Shed/Gazebo/Shade Structure, Wood or Metal-Framed, Basic/Minimal	150	y	7	6895294
0	3			Shed/Gazebo/Shade Structure Wood or Metal-Eramed				
F1020	Site	Special Construction & Demo	Good	Standard	1,200	SF	22	6895211
				Shed/Gazebo/Shade Structure, Wood or Metal-Framed,				
F1020	Site	Special Construction & Demo	Good	Basic/Minimal	700	SF	22	6895256
				Ancillary Building, Greenhouse, Truss Frame w/ Plastic				
F1020	Site	Special Construction & Demo	Good	Walls & Roof	125	SF	22	6895244
Pedestrian Pl	Pedestrian Plazas & Walkways							
G2020	Site	Pedestrian Plazas & Walkways	Fair	Parking Lots, Pavement, Asphalt, Seal & Stripe	180,000	SF	2	6941883
G2020	Site	Pedestrian Plazas & Walkways	Good	Parking Lots, Pavement, Asphalt, Mill & Overlay	180,000	SF	17	6895292
G2030	Site	Pedestrian Plazas & Walkways	Fair	Sidewalk, Asphalt	1,600	SF	12	6895282
G2030	Site	Pedestrian Plazas & Walkways	Fair	Sidewalk, Concrete, Large Areas	1,000	SF	59	6895186
Athletic, Reci	Athletic, Recreational & Playfield Areas							
G2050	Gymnasium	Athletic, Recreational & Playfield Areas	Fair	Sports Apparatus, Basketball, Backboard/Rim/Pole	2		12	6895155
G2050	Gymnasium	Athletic, Recreational & Playfield Areas	Fair	Play Structure, Climbing Wall, by vertical surface area	200	SF	7	6895239
G2050	Gymnasium	Athletic, Recreational & Playfield Areas	Fair	Sports Apparatus, Basketball, Backboard/Rim/Pole	9		12	6895199
G2050	Gymnasium	Athletic, Recreational & Playfield Areas	Fair	Sports Apparatus, Scoreboard, Electronic Basic	3		7	6895226
G2050	Site	Athletic, Recreational & Playfield Areas	Fair	Sports Apparatus, Baseball, Backstop Chain-Link	2		7	6895360
62050	Site	Athletic. Recreational & Plavfield Areas	Fair	Sports Field and Court Lighting. Light Fixture w/ Lamps	7		4	6895184
G2050	Site	Athletic, Recreational & Playfield Areas	Fair	Sports Apparatus, Scoreboard, Electronic Standard	3		12	6895343
G2050	Site	Athletic, Recreational & Playfield Areas	Fair	Sports Apparatus, Baseball, Dugout	4		4	6895367
G2050	Site	Athletic, Recreational & Playfield Areas	Fair	Sports Apparatus, Football, Goal Post	2		12	6895310
Sitework								
G2060	Site	Sitework	Good	Park Bench, Precast Concrete	1		17	6895231
G2060	Site	Sitework	Fair	Fences & Gates, Fence, Chain Link 6'	300	H	17	6895193
G2060	Site	Sitework	Fair	Picnic Table, Wood/Composite/Fiberglass	12		12	6895341

UF L3 Code	Location	Category	Condition	Asset/Component/Repair	Quantity	Unit	RUL	ID
				Pole Light Fixture w/ Lamps, any type 20' High, w/ LED				
G4050	Site	Sitework	Fair	Replacement, Replace/Install	10		3	6895333
				Exterior Fixture w/ Lamp, any type, w/ LED				
G4050	Building exterior	Sitework	Fair	Replacement	20		12	6895241

Appendix G: Replacement Reserves



								\$0	50	\$3,022,982	\$1,022,779	\$346,207	\$2,221,981	\$0 \$2,7	\$2,714,639 \$2,0	\$2,660 \$62;	\$627,726 \$1,702,742	100		\$1333,300 \$328,70	5328,709 \$400,080 \$2,181	080 \$2,181	31 \$14.763	3 \$5,816,536	36 \$194,930	80 \$7,554,367	167 \$3,274,733		£stimate \$30,709,219
Historia							-	J ⊨	! ⊢	ΙL				ΙL		11	╟	łŀ	1	łŀ	łŀ	ł H	! ⊢	I L	łŀ	-	ł	1	Deliciase o Banale
Cost Description Linespan EAge RUL Quantity Unit	EAge RUL Quantity	RUL Quantity	RUL Quantity			Unit Cost *	t * Subtotal	2023	2024	2025	2026	2027	2028	5029	2030 20	2031 20	2032 2033	33 2034		2035 205	2036 2037	17 2038	8 2039	2040	2041	2042	2043		Estimate
6895262 Stains, Metal or Pan-filled, Inherior, Replace SO 30 20 3000 SF	50 30 30 3000	3000	3000			\$48.00	\$144,000	9																			\$144,000		\$144,000
Exterior Walls, Brick Veneer, Replace 50 30 20 61820 S	50 30 20	Ш	Ш	1820		\$27.00	\$1,669,14	9								Н			H	H	H						\$1,669,340		\$1,669,140
Window, Numinum Double-Gazed, 16-25 30 21 9 263 SF, Replace	30 21 9 263	9 263	263		2	EA \$950.00	0 \$249,850	0								\$24	\$249,850												\$249,850
Exterior Door, Wood, Solid-Core, Replace 25 22 3 8	Ц	22 3 8	3 8	**	/3	A \$700.00	009'5\$ 0	Ц			\$5,600					H			H	H	H	H	Ц						\$5,600
Exterior Door, Aluminum-Framed & Glazed, 30 21 9 12 Standard Swing, Replace	30 21 9	6		12	S	EA \$1,300.00	00 \$15,600									55	\$15,600												\$15,600
Exterior Door, Steel, Standard, Replace 40 21 19 22	40 21 19	21 19 22	19 22	22	/3	\$600.00	0 \$13,200																			\$13,	\$13,200		\$13,200
Overhead/Dock Door, Steel, 20'x14' (280 30 25 5 2	30 25 5	10		7	EA	\$6300.00	00 \$12,600	_					\$12,600																\$12,600
Overhead/Dock Door, Abminum, 12X1Z 30 21 9 9	30 21 9	6		on	EA	\$4,400.00	009'68\$ 00	-								\$3	009'68\$												\$39,600
Roofing, Single-Ply Membrane, ERDM, 20 10 10 10 15000 Replace	20 10 20	8		8	34	\$11.00	000'\$91\$										\$36	\$365,000											\$165,000
Roofing, Single-Piy Membrane, TPO/PWC, 20 10 30 55000 Replace	20 10 30	8		8	35	\$17.00	2935,000	0									885	\$935,000											\$935,000
Rooding, Single-Ply Membrane, EPDM, 20 8 12 2300	20 8 12	12		300	35	\$11.00	525,300	_											**	\$25,300									\$25,300
Interior Door, Sted, Standard, Replace 40 23 17 105	40 23 17	23 17 105	17 105	108	13	\$600.00	0 \$63,000									Н			H	H	H	H		\$63,000	000				\$63,000
Interior Door, Steel, w/ Extensive Glazing, 40 23 37 50	40 23 17	77		20	EA	4 \$950.00	0 \$47,500	-																\$47,500	006				\$47,500
Suspended Cellings, Acoustical Tile (ACT), 25 23 2 210000 Replace	25 23 2	2		8	84	\$3.50	\$735,000	0		\$735,000																			\$735,000
Lockers, Steel-Baked Enamel, 12" W x 15" D 20 15 5 400	20 15 5	50		8	EA	A \$500.00	0 \$200,000	0					\$200,000																\$200,000
40 23 17	40 23 17	Ш	Ш	000	35	F \$18.00	Н												H	H	H			\$36,000	000				\$36,000
21 19	40 21 19	19	_	8	S	\$18.00	+									+	-	1	+	$\frac{1}{1}$	1	+	1		-	\$38,000	000		\$18,000
30 20 10	30 20 10	10		80	B			0									55	\$70,000		-		-							\$70,000
Wall Finishes, any surface, Prep & Paint 10 8 2 325000	10 8 2	8 2 325000	2 325000	2000	S	\$1.50	\$487,500	0		\$487,500						H			54	\$487,500	H	H	Ц						\$975,000
lart, 10 8 2	10 8 2	2		200	8s		\$2,250	_		\$2,250										\$2,250									\$4,500
40 35 5	35 5	35 5 500	2 200	8	S	\$18.00	Н	Ц					000'66			H			H	H	H	H	Ц						\$9,000
Flooring Quarry Tile, Replace 50 45 5 2000 shoring Character Tile Banksce 40 21 10 2000	33 30	5 02	_		0 0	\$26.00	552,000						\$25,000			+	-	1	+	$\frac{1}{1}$	1	+	1		-	000 000	000		\$52,000
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Passenger Elevator, Hydraulic, 3 Roors, 30 21 9	30 21		6		1 6/	EA \$70,000.00	000'02\$ 00'	-								\$2	\$70,000												\$70,000
Water Heater, Indirect, Replace 15 12 3	15 12 3	12 3	3		3 6/	4 \$4800.00	00 \$14,400				\$14,400					H			H	H	H		H		\$14400	100			\$28,800
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Aump, Groulation, Domestic Water, 1HP, 15 8 7	15 8		7		4 EA	4 \$3,300.00	00 \$13,200	_							\$13,200					-									\$13,200
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UNSQAM (FAIR RUL Quantity Unit Unit Cost* Subboal 2022 2024 2025 2026 2007 2 A/Modelate	2023 2024 2025 2026 2027 2028	2026 2027 2028	\neg		2090 2091	2032 2033	1 2034	2035 20	2036 2037	2038 21	2039 2040	2041	2042 2043	Deficiency Repair Estimate
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adaged Unit, RTU Pad or Rock-Mounted, 20 10 10 1 EA \$15,000 00 \$15,000	\$15,000					\$15	\$15,000							\$15,000
000-NOLINICAC, 20 9 11 2 EA \$7,500.00 \$15,000	\$15,000						\$15,000							\$15,000
Ar Handler, Interior AHJ, Bay(Modelate 25 13 12 1 EA \$9,200.00 \$9,300	00'65							\$9,200						\$9,200
Ar Hundler, Interior AHII, Boy/Moderate Across, Populace 25 9 16 1 RA \$5,200.00 \$9,000	59,200									0.	\$9,200			\$9,200
0.1 HP Motor, 20 12 8 1 EA \$2,100.00 \$2,300	\$2,000				\$2,100									\$2,100
Schaust Fan, Propeler, Nes han 0.25 HP 3 1 EA \$500.00 \$500 \$500 \$500		\$300												\$500
Eshsust Ran, centifielgs J. G. Damper, 25 21 4 1 EA \$2,400.00 \$2,400 (\$2,400)		\$2,400												\$2,400
Exhaust Fan, Centrifugal, 24" Damper, 25 21 4 1 EA \$3,000.00 \$3,000 \$3,000		\$3,000												\$3,000
Unhaust fan, Rod or Wal-Moumbel, 12" 20 11 9 2 EA \$1,400.00 \$2,800	\$2,800					\$2,800								\$2,800
Exhaust fan, Rod or Wal-Moumed, 10" 20 10 10 5 EA \$1,200.00 \$6,000	000'9\$					\$6.	\$6,000							\$6,000
Eshaust Fan, Roof or Val Antounned, 12" 20 10 10 10 EA \$1,400.00 \$14,000	\$14,000					\$14	\$14,000							\$14,000
Edhaust Ran, Rod or Wal Adounted, 12" 20 10 10 6 EA \$1,400.00 \$8,400	\$8,400					85	\$8,400							\$8,400
Exhaust fan, Rod or Wal-Mounted, 16" 20 10 10 4 EA \$3,400.00 \$9,600	009/6\$					88	09'6\$							\$9,600
Exhaust Ran, Rod or Wal-Mourhed, 12" 20 10 10 2 EA \$1,400.00 \$2,800	\$2,800					\$2.	\$2,800							\$2,800
Exhaust fan, Rod or Wal-Moumed, 16" 20 10 10 2 EA \$2,400.00 \$4,800	\$4,800					\$4.	\$4,800							\$4800
Δa, Roof or Val-Artounhed, 10" 20 10 10 10 EA \$1,200.00 \$12,000	\$12,000					\$12	\$12,000							\$12,000
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Ahaust Roof or Wald-Mounted, 16" 20 9 11 1 EA \$2,400.00 \$2,400	\$2,400						\$2,400							\$2,400
12 Unmper, 25 10 15 1 EA \$1,400.00 \$1,400	\$1,400									\$1,400				\$1,400
Supplemental Components, Air Purfler, 5 3 2 5 EA \$4,800.00 \$44,000 \$44,000		\$4,000			\$44,000			\$44,000			\$44,000			\$176,000
rescionSystem, Existing Sprinkler 25 21 4 210000 SF \$1.07 \$22.4.700 (522.4.700		\$224,700												\$224,700
Rire Supression System, Commercial 20 13 7 20 LF \$400.00 \$8,000	38,000				38,000									38,000
Fire Extinguisher, Wet Chemic 4/CO2, 10 1 9 1 EA \$300.00 \$300	\$300					\$300							\$300	\$600
Fire Extinguisher, Type ABC, up to 2018,	92.5%					53.750							\$3.750	\$7,500
40 35 5 1 EA S		26600	\$6600	0										\$66,000
decondary Transformer, Dry, Stepdown, 30 21 9 1 EA \$6,700.00 \$6,700	00.98					96,700								\$6,700
Distribution formed, 2007 87 3 1 EA \$4,000.00 \$5,000 \$5,000		\$6,000				9000								\$6000
30 21 9 1 EA \$7,000.00	30,000 \$7,000					22,000		1		l		Ī		\$7,000
Electrical System, Virling & Suit-Chap, High A 21 29 210000 SF \$4.00 \$54.00	\$340,000												\$840,000	\$840,000
Variable Frequency (Drive, VPD) by HP Of 30 177 3 1 EA \$12,400.00 \$12,400 \$12,400		\$12,400												\$12,400
Variable Prequency Orive, VFO, by HP of Mark VFO, by HP of Mark VFO, by HP of Mark VFO, by Mark VFO, by Mark VFO, Ma		44.4 1000												\$14,700

Deficiency Repair Estimate	\$1,050,000	\$346,500	\$420,000	53,160	\$30000	\$630,000	\$1,050,000	\$43,000	\$9,200	\$19,000	\$43,000	\$12,600	\$28,000	\$9,200	\$6,400	cookre	000/576	913000	314000	ooobre c	Silono	273,000	\$18400	\$15,000	\$9,200	\$35,000	\$9,200	\$9,200	\$11,400	\$4500	\$4,600	\$7,400	\$22,400
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2025							\$525,000	\$21,500	\$4,600	\$9,500	\$21,500	\$6,300	\$34,000	\$4,600	\$3,200	37,000	\$12,800	39,300	37,000														
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Unit Cost *	\$5.00	\$1.65	\$2.00	\$1580.00	\$15,000.00	\$3.00	\$2.50	\$21,500.00	\$4,600.00	\$9,500.00	\$21,500.00	\$6300.00	\$7,000.00	\$4,600.00	\$3,200.00	2/2000	36400 m	monesse	3/10000			24/00.00	\$4600.00	\$15,000.00		\$35,000.00	\$4600.00	\$4,600.00	\$5,700.00	\$4500.00	\$4,600.00	\$7,400.00	\$5,600.00
tky Unit	25	00 55	-	EA	_	+	8	EA	EA	£Α	EA	EA	EA	EA	EA		EA.	5	5 3	5	T	5 5	EA .	T		£4	23	EA	ΕA	£Α	FA	EA	EA EA
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Cost Description	Interior Lighting System, Full Upgrade, High Density & Standard Fixtures, Replace	Intercom/PA System, Public Address Upgrade, Facility-Wide, Replace	Security/Surveillance System, Full System Upgrade, Average Density, Replace	Fire Aarm Panel, Annuncator, Redace Fire Aarm Panel, Fully Addressable,	-	2	Upgrades, Upgrade/Install Foodservice Equipment, Dishwasher	Commercial, Replace	Proceedings against the war in, Evaporator for Refigerator/Freezer, Replace	Foodservice Equipment, Convection Oven, Double, Replace	Foodservice Equipment, Dishwasher Commercial, Replace	Foodservice Equipment, Walk-In, Condenser for Refigeratory's reczer, Replace	Foodservice Equipment, Griddle, Replace	roosservice Equipment, Walk-In, Evaporator for Refigerator/Freezer, Replace	Foodservice Equipment, Slicer, Replace	Foodservice Equipment, Nefrigerator, 3-	Loodservice Equipment, Convection Oven,	Foodservior Equipment, Deep Fryer,	Foodservice Equipment, Walk-In,	Foodservice Equipment, Exhaust Hood, 8 to	Todservice Equipment, Prep Table	Foodservice Equipment, Freezer, 3-Door Boarship Bendaria	Foodservice Equipment, Refrigerator, 2- Door Reach-in. Replace	Foodservice Equipment, Walk-In, Refrigerator, Replace	Foodservic Equipment, Walk-in, Evaporator for Refigerator/freezer, Replace	Foodservic e Equipment, Walk-In, Combination Freezer/Refigerator, Replace	Foodservice Equipment, Walk-In. Evaporator for Refigerator/Freezer, Replace	Foodservice Equipment, Walk-In, Evaporator for Refigerator/Freezer, Replace		Foodservice Equipment, Exhaust Hood, 8 to 10 UF, Replace	Foodservice Equipment, Refrigerator, 2- Door Reach-In, Replace	Foodservice Equipment, Range/Oven, 8- Burner, Replace	Foodservice Equipment, Convection Overs, Single, Replace Foodservice Equipment, Broller, Replace
QII	6895159	6895278	6895192	6895348	6942094	6895252	6895290	6895331	6895272	6895257	6895238	6895299	6895317	6895234	6895209	0030737	9079689	6779680	7179680	0033333	0895223	0839271	6896,102	6895322	6895160	6895311	6895326	6895313	6895178	6895279	6895353	6895163	6895204
Uniformat	D5040	09090	07030	07020	07020	07050	08010	61030	E1030	61030	E1030	61030	£1030	E1030	61030	2000	05013	0000	0000	2000	2030	05013	61030	E1030	E1030	E1030	E1030	61030	E1030	61030	61030	E1030	E1030

Deficiency Repair Estimate	\$11,200	\$6,000	\$1,100	\$25,000	\$6,000	\$11,200	\$14,400	\$2,700	\$3,400	\$6,700	\$4600	\$6300	\$3,800	\$30,000	\$30,000	\$40000	\$105,000	\$14,400	\$99,000	\$210,000	\$2,000	\$7,500	\$15,000	\$2,500	\$3,750	\$230,000	\$324,000	\$630,000	\$8,800	\$35,000	\$23,200	\$10,000	\$9,000	\$19,000	\$57,000	\$24,000
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2038													000													00										
2037											8	8	\$3,800													\$230,000										
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1 2035							\$14,400	\$2,700	\$3,400	\$6,700																	\$81,000		\$8300					\$19,000	\$57,000	\$24,000
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t* Subtotal	\$5,600	000'9\$ 0	00 \$1,000	00 \$25,000	00 \$6,000	009'8\$	\$14,400	0 \$2,700	ο \$3,400	002'9\$	00 \$4,600	α \$6,300	α \$3,800	\$30,000	\$30,000	οσσος\$ α	0,8018	\$14,400	\$90,000	\$210,000	\$5,000	\$7,900	\$15,000	\$2,500	\$3,750	\$230,000	\$81,000		\$8,800	\$35,000	00911500	000'01\$ 0	000'65 00	000/61\$ 0	0 \$57,000	ο \$24,000
Quantity Unit Unit Cost*	\$5,600.00	\$6000.00	\$1,100.00	EA \$25,000.00	\$6,000.00	\$5,600.00	\$3,600.00	\$2,700.00	\$1,700.00	\$6,700.00	\$4600.00	\$6300.00	\$3,800.00	\$30000.00	\$30000.00	\$4000.00	\$175.0	\$220.00	\$450.00	\$350.00	\$25.00	\$25.00	\$50.00	\$25.00	\$25.00	\$300.00	90.45		\$8.50	\$5,000.00	\$2,900.00	\$5,000.00	\$3,000.00	\$9500.00	\$9,500.00	\$8,000.00
antity Uni	1 6A	1 EA	1 EA	1 5/	1 EA	1 EA	4 EA	1 EA	2 EA	1 EA	1 EA	1 54	1 EA	1 64	1 64	5 EA	90 OO9	120 EA	200 EA	600 EA	200	300 SF	300 SF	100 SF	150 SF	2300 SF	180000 SF	180000 SF	1600 SF	7 EA	4 64	2 EA	3 EA	2 EA	6 EA	3 EA
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Cost Description	Foodservice Equipment, Convection Over Single, Replace	Foodservice Equipment, Range/Over, (Burner, Replace	Foodservice Equipment, Refrigerator, Undercounter 1-Door, Replace	Foodservice Equipment, Walk-In, Freeze Replace	Foodservice Equipment, Range/Oven, 6 Burner, Replace	Foodservice Equipment, Convection Over Single, Replace	Foodservice Equipment, Dairy Cooler/Wells, Replace	Foodservice Equipment, Refrigerator, 3- Door Reach-In, Replace	Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels, Replace	Foodservice Equipment, loamaker, reestanding, Replace	Foodservice Equipment, Walk-in, Evaporator for Refigorator/Freezer, Replace	Foodservice Equipment, Walk-In, Condenser for Refigerator/Freezer, Replace	Foodservice Equipment, Garbage Dispos 1 to 3 HP, Replace	Foodservice Equipment, SteamKettle,	Foodservice Equipment, SteamKettle,	Laboratory Equipment, Exhaust Hood, Constant Volume 6 LF, Replace	Casework, Cabinetry Economy, Replace Reachers Eved Seel Frame Aluminum	Benches (per Seat), Replace	Bleachers, Telescoping Power-Operated, up to 15 Tier (per Seat), Replace	Fixed Seating, Auditorium/Theater, Met Cushioned Standard, Replace	Shed/Gazebb/Shade Structure, Woodor Metal-Framed, Basic/Minimal, Replace	Shed/Gazebo/Shade Structure, Woodor Metal-Framed, Basic/Minimal, Replace	Shed/Gazebo/Shade Structure, Woodic Metal-Framed, Standard, Replace	Shed/Gazebo/Shade Structure, Woodor Metal-Framed, Basic/Minimal, Replace	Shed/Gazebo/Shade Structure, Woodor Metal-Framed, Basic/Minimal, Replace	Ancillary Building, Wood-Framed or CM Standard, Replace	Parking Lots, Pavement, Asphalt, Seal & Stripe	Parking Lots, Pavement, Aphalt, Mill &	Sidewalk, Auphalt, Replace	and and under the state of the	Sports Apparatus, Baseball, Dugout, Replace	Sports Apparatus, Baseball, Backstop Chain Unk, Replace	Sports Apparatus, Scoreboard, Electronic Basic, Replace	Sports Apparatus, Baskelball, Backboard/Kimyfole, Replace	Sports Apparatus, Basketball, Backboard/Rim/Pole, Replace	Sports Apparatus, Soneboard, Electron Standard, Replace
QI	6895340	6895273	6895291	6895166	6895171	6895187	6895270	6895265	6895233	6895374	6895369	6835309	6895263	6895157	6895154	6895362	6895300	6895269	6895214	6942095	6895321	6895335	6895191	6895251	6895294	6895315	6941883	6895292	6895282	6895184	6895367	6895360	6895226	6895155	6895199	6895343
Uniformat	E1030	61030	61030	E1030	E1030	E1030	01030	61030	05013	E1030	E1030	61030	01030	05013	05013	E1040	62010	62010	62010	E2010	F1020	F1020	F1020	F1020	F1020	F1020	62020	02020	62030	62050	62050	62050	62050	62050	62050	62050

Appendix H: Depleted Value Report





SPAULDING UHS - Main Building

Depleted Value Index

55.2%

System	System Contribution	System Value
Air Compressor	\$ 6,360	\$ 10,600
Air Compressor	\$ 2,827	\$ 10,600
Air Handler	\$ 3,720	\$ 6,200
Air Handler	\$ 107,467	\$ 124,000
Air Handler	\$ 7,820	\$ 9,200
Air Handler	\$ 8,464	\$ 9,200
Air Handler	\$ 23,000	\$ 30,000
Air Handler	\$ 6,440	\$ 9,200
Air Ventilator	\$ 32,468	\$ 38,961
Air Ventilator	\$ 23,377	\$ 25,974
Air Ventilator	\$ 4,870	\$ 12,987
Ancillary Building	\$ 149,500	\$ 230,000
Ancillary Building	\$ 3,938	\$ 4,375
Axial Flow Fan	\$ 1,470	\$ 2,100
BAS/HVAC Controls	\$ 367,500	\$ 525,000
Bleachers	\$ 48,000	\$ 90,000
Bleachers	\$ 7,560	\$ 14,400
Boiler	\$ 138,667	\$ 160,000
Boiler	\$ 45,300	\$ 60,400
Boiler	\$ 208,000	\$ 320,000
Boiler	\$ 160,000	\$ 320,000
Boiler Supplemental Components	\$ 1,416	\$ 3,540
Casework	\$ 52,500	\$ 105,000
Distribution Panel	\$ 3,000	\$ 6,000
Distribution Panel	\$ 2,700	\$ 6,000
Distribution Panel	\$ 5,950	\$ 7,000
Drinking Fountain	\$ 600	\$ 1,200
Electrical System	\$ 420,000	\$ 840,000
Elevator Cab Finishes	\$ 4,500	\$ 9,000
Elevator Controls	\$ 4,200	\$ 5,000
Emergency Plumbing Fixtures	\$ 1,260	\$ 1,500
Exhaust Fan	\$ 3,000	\$ 6,000
Exhaust Fan	\$ 700	\$ 1,400
Exhaust Fan	\$ 7,700	\$ 14,000
Exhaust Fan	\$ 2,400	\$ 4,800
Exhaust Fan	\$ 1,680	\$ 2,400
Exhaust Fan	\$ 263	\$ 500

	_		
System	Sys	tem Contribution	System Value
Exhaust Fan	\$	7,392	\$ 8,400
Exhaust Fan	\$	3,840	\$ 9,600
Exhaust Fan	\$	1,680	\$ 2,800
Exhaust Fan	\$	1,120	\$ 2,400
Exhaust Fan	\$	1,400	\$ 3,000
Exhaust Fan	\$	6,900	\$ 12,000
Exhaust Fan	\$	1,920	\$ 2,400
Exhaust Fan	\$	2,240	\$ 2,800
Exhaust Fan	\$	2,600	\$ 4,000
Exterior Door	\$	1,560	\$ 15,600
Exterior Door	\$	1,320	\$ 13,200
Exterior Door	\$	3,640	\$ 5,600
Exterior Fixture w/ Lamp	\$	10,080	\$ 12,000
Exterior Walls	\$	1,418,769	\$ 1,669,140
Exterior Walls	\$	278,549	\$ 522,280
Exterior Walls	\$	87,780	\$ 138,600
Fences & Gates	\$	5,513	\$ 6,300
Fire Alarm Panel	\$	1,264	\$ 1,580
Fire Alarm Panel	\$	13,500	\$ 15,000
Fire Alarm System	\$	330,750	\$ 630,000
Fire Extinguisher	\$	270	\$ 300
Fire Extinguisher	\$	3,250	\$ 3,750
Fire Suppression System	\$	6,933	\$ 8,000
Fire Suppression System	\$	179,760	\$ 224,700
Fixed Seating	\$	178,500	\$ 210,000
Flooring	\$	2,800	\$ 14,000
Flooring	\$	60,000	\$ 75,000
Flooring	\$	7,200	\$ 9,000
Flooring	\$	1,950	\$ 2,250
Flooring	\$	149,333	\$ 280,000
Flooring	\$	28,800	\$ 54,000
Flooring	\$	10,400	\$ 52,000
Flooring	\$	600	\$ 4,000
Flooring	\$	608,000	\$ 760,000
Flooring	\$	30,000	\$ 37,500
Foodservice Equipment	\$	8,000	\$ 15,000
Foodservice Equipment	\$	4,320	\$ 14,400
Foodservice Equipment	\$	3,900	\$ 4,500
Foodservice Equipment	\$	18,633	\$ 21,500
Foodservice Equipment	\$	920	\$ 4,600
Foodservice Equipment	\$	3,600	\$ 4,500
Foodservice Equipment	\$	2,453	\$ 4,600
Foodservice Equipment	\$	2,340	\$ 2,700

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System	System Contribution	System Value
Foodservice Equipment	\$ 24,000	\$ 30,000
Foodservice Equipment	\$ 7,600	\$ 9,500
Foodservice Equipment	\$ 1,433	\$ 21,500
Foodservice Equipment	\$ 1,110	\$ 7,400
Foodservice Equipment	\$ 8,960	\$ 11,200
Foodservice Equipment	\$ 5,355	\$ 6,300
Foodservice Equipment	\$ 12,133	\$ 14,000
Foodservice Equipment	\$ 680	\$ 3,400
Foodservice Equipment	\$ 11,280	\$ 14,100
Foodservice Equipment	\$ 1,120	\$ 8,400
Foodservice Equipment	\$ 3,910	\$ 4,600
Foodservice Equipment	\$ 4,987	\$ 6,800
Foodservice Equipment	\$ 2,773	\$ 3,200
Foodservice Equipment	\$ 3,040	\$ 3,800
Foodservice Equipment	\$ 9,000	\$ 30,000
Foodservice Equipment	\$ 4,907	\$ 9,200
Foodservice Equipment	\$ 8,000	\$ 15,000
Foodservice Equipment	\$ 4,550	\$ 7,000
Foodservice Equipment	\$ 3,573	\$ 6,700
Foodservice Equipment	\$ 3,987	\$ 4,600
Foodservice Equipment	\$ 613	\$ 4,600
Foodservice Equipment	\$ 10,500	\$ 35,000
Foodservice Equipment	\$ 4,560	\$ 5,700
Foodservice Equipment	\$ 10,240	\$ 12,800
Foodservice Equipment	\$ 5,700	\$ 9,500
Foodservice Equipment	\$ 3,680	\$ 5,600
Foodservice Equipment	\$ 3,150	\$ 6,000
Foodservice Equipment	\$ 917	\$ 1,100
Foodservice Equipment	\$ 16,250	\$ 25,000
Foodservice Equipment	\$ 3,450	\$ 6,000
Foodservice Equipment	\$ 4,025	\$ 7,000
Foodservice Equipment	\$ 945	\$ 6,300
Foodservice Equipment	\$ 4,480	\$ 5,600
Foodservice Equipment	\$ 3,450	\$ 4,600
Foodservice Equipment	\$ 3,833	\$ 4,600
Heat Exchanger	\$ 7,980	\$ 11,400
Heat Exchanger	\$ 5,700	\$ 11,400
HVAC System	\$ 525,000	\$ 1,050,000
HVAC System	\$ 420,000	\$ 840,000
Intercom/PA System	\$ 155,925	\$ 346,500
Interior Door	\$ 31,500	\$ 63,000
Interior Door	\$ 15,200	\$ 47,500
Interior Lighting System	\$ 630,000	\$ 1,050,000

System	Sys	tem Contribution	System Value
Laboratory Equipment	\$	6,400	\$ 20,000
Lockers	\$	140,000	\$ 200,000
Overhead/Dock Door	\$	5,040	\$ 12,600
Overhead/Dock Door	\$	21,120	\$ 39,600
Packaged Unit	\$	3,938	\$ 7,500
Packaged Unit	\$	4,250	\$ 5,000
Packaged Unit	\$	220	\$ 5,500
Packaged Unit	\$	8,000	\$ 15,000
Packaged Unit	\$	13,800	\$ 15,000
Park Bench	\$	840	\$ 1,000
Parking Lots	\$	70,200	\$ 81,000
Parking Lots	\$	50,400	\$ 630,000
Passenger Elevator	\$	37,333	\$ 70,000
Picnic Table	\$	6,000	\$ 7,200
Play Structure	\$	6,400	\$ 8,000
Plumbing System	\$	924,000	\$ 2,310,000
Pole Light Fixture w/ Lamps	\$	21,000	\$ 42,000
Pump	\$	13,600	\$ 27,200
Pump	\$	4,620	\$ 6,600
Pump	\$	6,507	\$ 12,200
Pump	\$	9,967	\$ 13,000
Pump	\$	5,980	\$ 7,800
Pump	\$	10,427	\$ 13,600
Pump	\$	10,120	\$ 13,200
Radiator	\$	92,000	\$ 120,000
Replace Energy Recovery Ventilator 180 to 315 CFM	\$	569	\$ 2,134
Roofing	\$	6,747	\$ 25,300
Roofing	\$	115,500	\$ 165,000
Roofing	\$	486,200	\$ 935,000
Secondary Transformer	\$	2,814	\$ 6,700
Security/Surveillance System	\$	294,000	\$ 420,000
Shed/Gazebo/Shade Structure	\$	2,167	\$ 5,000
Shed/Gazebo/Shade Structure	\$	5,250	\$ 7,500
Shed/Gazebo/Shade Structure	\$	4,000	\$ 15,000
Shed/Gazebo/Shade Structure	\$	1,083	\$ 2,500
Shed/Gazebo/Shade Structure	\$	1,393	\$ 3,750
Shed/Gazebo/Shade Structure	\$	42,000	\$ 60,000
Shed/Gazebo/Shade Structure	\$	7,583	\$ 17,500
Shower	\$	6,240	\$ 10,400
Sidewalk	\$	3,813	\$ 8,800
Sidewalk	\$	4,800	\$ 9,000
Sink/Lavatory	\$	2,667	\$ 5,000
Sink/Lavatory	\$	936	\$ 1,800

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System	System Contribution	System Value
Sink/Lavatory	\$ 1,092	\$ 2,100
Sink/Lavatory	\$ 25,200	\$ 35,000
Sink/Lavatory	\$ 3,120	\$ 4,800
Sink/Lavatory	\$ 728	\$ 1,400
Sink/Lavatory	\$ 1,173	\$ 1,600
Sink/Lavatory	\$ 41,340	\$ 79,500
Sink/Lavatory	\$ 672	\$ 800
Sink/Lavatory	\$ 3,960	\$ 6,600
Split System Ductless	\$ 7,280	\$ 14,000
Split System Ductless	\$ 3,660	\$ 6,100
Sports Apparatus	\$ 12,350	\$ 19,000
Sports Apparatus	\$ 37,050	\$ 57,000
Sports Apparatus	\$ 8,280	\$ 9,000
Sports Apparatus	\$ 8,750	\$ 10,000
Sports Apparatus	\$ 18,400	\$ 24,000
Sports Apparatus	\$ 7,540	\$ 11,600
Sports Apparatus	\$ 8,500	\$ 10,000
Sports Field and Court Lighting	\$ 29,750	\$ 35,000
Stairs	\$ 129,600	\$ 144,000
Storage Tank	\$ 2,310	\$ 6,600
Supplemental Components	\$ 19,067	\$ 44,000
Supplemental Components	\$ 4,760	\$ 5,600
Supplemental Components	\$ 9,350	\$ 11,000
Suspended Ceilings	\$ 422,625	\$ 735,000
Switchboard	\$ 34,650	\$ 66,000
Toilet	\$ 45,067	\$ 67,600
Unit Heater	\$ 1,440	\$ 1,800
Unit Heater	\$ 714	\$ 1,700
Unit Heater	\$ 510	\$ 1,700
Unit Heater	\$ 1,680	\$ 2,100
Unit Ventilator	\$ 108,533	\$ 148,000
Urinal	\$ 16,683	\$ 23,100
Variable Frequency Drive	\$ 8,680	\$ 12,400
Variable Frequency Drive	\$ 12,495	\$ 14,700
Wall Finishes	\$ -	\$ 36,000
Wall Finishes	\$ -	\$ 18,000
Wall Finishes	\$ -	\$ 70,000
Wall Finishes	\$ -	\$ 487,500
Wall Finishes	\$ -	\$ 82,500
Water Heater	\$ -	\$ 18,500
Water Heater	\$ -	\$ 14,400
Water Heater	\$ -	\$ 1,600
Water Heater	\$ -	\$ 2,900
vvaler nealer	-	\$ 2,900

	System		Syst	em Contribution	System Value
Window			\$	-	\$ 249,850
	•	Totals	\$	10,848,823	\$ 19,662,871

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FACILITY CONDITION ASSESSMENT



prepared for

Vermont Agency of Education_FCA Phase Two 1 National Life Drive, Davis 5 Montpelier, VT 05620-2501



PREPARED BY:

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BV PROJECT #: 158982.22R000-021.379

DATE OF REPORT: August 14, 2023

ON SITE DATE: July 17, 2023

BARRE CITY ELEMENTARY/MIDDLE SCHOOL - Main Building (PS381-SU024) 50 Parkside Terrace Barre VT, 05641

Bureau Veritas

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1. Executive Summary

Property Overview and Assessment Details

General Information	
Property Type	School
School ID Number	PS381-SU024
Main Address	50 Parkside Terrace, Barre VT, 05641
E911 Address Verification	Zip 05641-4846, Standardized, Fixed abbreviations, Matched Street and city and state, Confirmed entire address
GPS Location (Verified E911)	Main Building 44.18527, -72.50304
Site Developed	1995
Site Area	24 acres (estimated)
Parking Spaces	155 total spaces all in open lots; 9 of which are accessible.
Building Square Footage	125,000 (Verified)
Number of Stories	3 above grades
Supervisory Union/ District	Barre Unified Union SD
Date(s) of Visit	July 17, 2023

Note: (Verified) in Square Foot signifies that the square footage of the facility has been verified to be accurate.

Significant/Systemic Findings and Deficiencies

Historical Summary

The building was constructed in 1995 as an Elementary/Middle School. The use case for the building has not changed. No outside tenants are present on the property.

Architectural

The roof of the building is built of three types of materials. The primary roof is finished with single ply TPO membrane, the secondary roof is an EPDM material. The smallest area of roofing is asphalt shingle. The asphalt shingle roofing is currently being replaced. Exterior walls are built of CMU and metal sandwich panels. Aluminum and steel doors are present at the entrances and exits of the main building. There are overhead aluminum doors present to allow access to shop classrooms. The interior flooring for office spaces is mainly VCT and carpet floors. Since the interior finishes in major areas of the building have recently been renovated, only typical lifecycle interior finish, exterior finish, and roof membrane replacements are budgeted and anticipated.

Mechanical, Electrical, Plumbing and Fire (MEPF)

All the electromechanical components installed in both the buildings have been well maintained and replaced on asneeded basis. The seasonal heating needs of the building are served by a wood chip boiler, an oil-fired boiler, baseboard radiators, AHUs, and unit heaters. Most of the roof-top units are original to the building. All the plumbing pipelines and fittings for the heating loops are properly insulated. Anticipatory cost for life cycle-based replacement of all the MEPF infrastructure at the end of its useful life have been estimated. The essential electrical equipment consists of diesel-fired generator, a switchboard, main distribution panels, VFD's, and dry-type transformers. The electrical service in the facility is properly sized to match its current overall electrical requirements. The overall lighting system of the facility have been modernized to energy efficient LED fixtures during the recent rehabilitation projects and serves the optimal lighting needs of the facility. The plumbing fixtures are replaced as required and are properly maintained. An indirect hot water heater is used to provide hot water for the domestic use. The water closets are recommended to be retrofitted with dual flush tanks to save water consumption during the domestic use. No major issues were observed or reported. A fully addressable fire alarm system is present in both the buildings and is inspected annually to ensure its proper operation. The alarm system consists of strobes, pull stations, illuminated exit signs, emergency lighting and other modern life safety devices. Lifecycle-replacement at the end of its useful life has been budgeted. There is a wet pipe fire sprinkler system throughout the building.

Site

The property has a large parking lot to the left side of the building and a smaller lot in front of the building. There is a playground to the left of the building and sports fields on both sides. The site is well maintained.

Recommended Additional Studies

No additional studies recommended at this time.





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Facility Condition Index (FCI)

One of the major goals of the FCA is to calculate each building's Facility Condition Index (FCI), which provides a theoretical objective indication of a building's overall condition. By definition, the FCI is defined as the ratio of the cost of current needs divided by current replacement value (CRV) of the facility. The chart below presents the industry standard ranges and cut-off points.

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FCI Ranges and	FCI Ranges and Descriptions					
0 – 5% In new or well-maintained condition, with little or no visual evidence of wear or deficiencies.						
5 – 10%	5 – 10% Subjected to wear but is still in a serviceable and functioning condition.					
10 – 30% Subjected to hard or long-term wear. Nearing the end of its useful or serviceable life.						
30% and above	Has reached the end of its useful or serviceable life. Renewal is now necessary.					

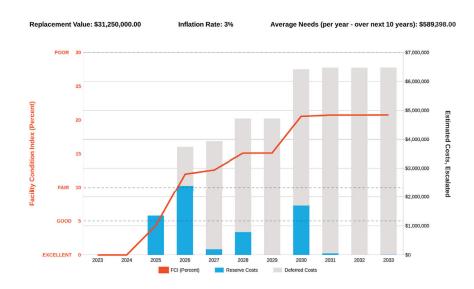
The deficiencies and lifecycle needs identified in this assessment provide the basis for a portfolio-wide capital improvement funding strategy. In addition to the current FCI, extended FCI's have been developed to provide owners the intelligence needed to plan and budget for the "keep-up costs" for their facilities. As such the 3-year, 5-year, and 10-year FCI's are calculated by dividing the anticipated needs of those respective time periods by current replacement value. As a final point, the FCI's ultimately provide more value when used to relatively compare facilities across a portfolio instead of being over-analyzed and scrutinized as stand-alone values. The table below summarizes the individual findings for this FCA:

FCI Analysis			
Replacement Value	Total SF	Co	ost/SF
\$31,250,000	125,000	\$2	250
Current FCI		\$0	0.0%
3-Year		\$3,743,000	12.0%
5-Year		\$4,723,500	15.1%
10-Year		\$6,483,400	20.7%

Facility Level FCI:

The orange line in the graph below forecasts what would happen to the FCI (left Y axis) over time, assuming zero capital expenditures. The capital expenditures allocated for each year (blue bars) are associated with the dollar amounts along the right Y axis. If the school expends the average amount per year to maintain and replace systems, they will not incur the capital debt represented by the gray bars.

Needs by Year with Unaddressed FCI Over Time





Needs by Year with Unaddressed FCI Over Time (Table)

The above graph is a visual representation of the information contained in the table below.

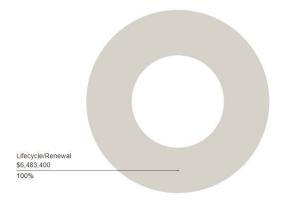
Year	Reserve	Reserve Escalation	Recurrence	Recurrence Escalation	Total Escalation	Deferred	FCI
2023	0	0	0	0	0	0	0
2024	0	0	0	0	0	0	0
2025	1,274,100	77,593	0	0	77,593	1,351,693	0.04
2026	2,188,400	202,924	0	0	202,924	3,743,017	0.12
2027	172,770	21,684	0	0	21,684	3,937,471	0.13
2028	655,600	104,420	22,400	3,568	107,988	4,697,491	0.15
2029	1,400	272	0	0	272	4,699,163	0.15
2030	1,381,037	317,464	0	0	317,464	6,397,664	0.2
2031	21,200	5,656	22,400	5,976	11,632	6,424,520	0.21
2032	0	0	0	0	0	6,424,520	0.21
2033	3,400	1,169	0	0	1,169	6,429,089	0.21
2034	0	0	41,720	16,030	16,030	6,429,089	0.21
2035	2,129,870	906,815	384,350	163,641	1,070,456	9,465,774	0.3
2036	111,700	52,335	14,000	6,559	58,894	9,629,809	0.31
2037	0	0	41,400	21,221	21,221	9,629,809	0.31
2038	0	0	0	0	0	9,629,809	0.31
2039	0	0	0	0	0	9,629,809	0.31
2040	404,250	263,914	91,300	59,605	323,519	10,297,973	0.33
2041	76,650	53,841	56,420	39,631	93,472	10,428,464	0.33
2042	0	0	0	0	0	10,428,464	0.33

Plan Types

Each line item in the cost database is assigned a Plan Type, which is the primary reason or rationale for the recommended replacement, repair, or other corrective action. This is the "why" part of the equation. A cost or line item may commonly have more than one applicable Plan Type; however, only one Plan Type will be assigned based on the "best" fit, typically the one with the greatest significance. Each of the Key Findings identified below are assigned a Plan Type.

Plan Type Descriptions					
Safety	•	An observed or reported unsafe condition that if left unaddressed could result in injury; a system or component that presents potential liability risk.			
Performance/Integrity	•	Component or system has failed, is almost failing, performs unreliably, does not perform as intended, and/or poses risk to overall system stability.			
Accessibility	•	Does not meet ADA, UFAS, Safety and/or other handicap accessibility requirements.			
Environmental	•	Improvements to air or water quality, including removal of hazardous materials from the building or site.			
Retrofit/Adaptation	-	Components, systems, or spaces recommended for upgrades in in order to meet current standards, facility usage, or client/occupant needs.			
Lifecycle/Renewal	-	Any component or system that is not currently deficient or problematic but for which future replacement or repair is anticipated and budgeted.			

Plan Type Distribution (by Cost)



10-YEAR TOTAL: \$6,483,400



BUREAU VERITAS PROJECT: 158982.22R000-021.379

BARRE CITY ELEMENTARY/MIDDLE SCHOOL - MAIN BUILDING

BUREAU VERITAS PROJECT: 158982.22R000-021.379

Immediate Needs

ID	Location Description	UF Code	Description	Condition	Plan Type	Cost
Total (0 items)	N/A	N/A	N/A	N/A	N/A	\$0
					Total	\$0

BARRE CITY ELEMENTARY/MIDDLE SCHOOL - MAIN BUILDING

BUREAU VERITAS PROJECT: 158982.22R000-021.379

Key Findings

No key findings exist for this location.



Findings

2. Building and Site Information





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System Summary		
System	Description	Condition
Structure	Steel frame with concrete-topped metal decks over concrete pad column footings.	Fair
Facade	Primary Wall Finish: CMU Secondary Wall Finish: Curtain wall Windows: Aluminum	Fair
Roof	Primary: Flat construction with single-ply TPO/PVC membrane Secondary: Flat and Domed construction with single-ply EPDM membrane Tertiary: Hip construction with asphalt shingles	Fair
Interiors	Walls: Painted gypsum board, painted CMU Floors: Carpet, VCT, faux wood plank LVT[VSJ1], wood strip, coated concrete Ceilings: Painted gypsum board and ACT, Unfinished/exposed	Fair
Elevators	Passenger: 1 hydraulic car serving all 3 floors	Fair
Plumbing	Distribution: Copper supply and PVC waste & venting Hot Water: Indirect water heaters with integral tanks Fixtures: Toilets, urinals, and sinks in all restrooms	Fair
HVAC	Central System: Boilers, air handlers, RTUs feeding fan coil, hydronic baseboard radiators and cabinet terminal units. Supplemental components: Split-system heat pumps, Suspended unit heaters, Make-up air units.	Fair
Safety and Security	Cameras, card readers, perimeter intrusion detection, security windows and doors, fencing, lighting, traffic gates. Multiple points of auto locking doors, main entry monitored, auto locking doors, internal locking on classroom doors, complete intercom system	Fair
Fire Suppression	Wet-pipe sprinkler system and fire extinguishers, and kitchen hood system	Fair

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	B U R E A U V E R I T A S

Electrical	Source & Distribution: Main switchgear copper wiring Interior Lighting: LED Emergency Power: Diesel generator with automatic transfer switch	Fair
Fire Alarm	Alarm panel with smoke detectors, heat detectors, alarms, strobes, pull stations, back-up emergency lights, and exit signs.	Fair
Equipment/Special	Commercial kitchen equipment	Fair
Site Pavement	Asphalt lots with limited areas of concrete aprons and pavement and adjacent concrete sidewalks, curbs, ramps, and stairs	Fair
Site Development	Building-mounted signage; chain link fencing Playgrounds and sports fields and courts with fencing Heavily furnished with park benches, picnic tables, trash receptacles	Good
Landscaping & Topography	Significant landscaping features including lawns, trees, bushes, and planters. Irrigation present CMU retaining walls. Low to moderate site slopes throughout	Good
Utilities	Municipal water and sewer Local utility-provided electric with propane and fuel oil tanks	Good
Site Lighting	Pole-mounted: LED Building-mounted: LED	Good
Ancillary Structures	Garage, and storage sheds	Fair
Accessibility	Presently it does not appear an accessibility study is needed for this property.	
Key Issues and	None observed at time of assessment.	

3. Supplemental Evaluations

Square Foot Verification

We have reviewed the square footage of 125,000 square feet and it is in the range of square foot calculations as reported by the school district. This confirmation of the square footage of the facility is based on the exterior wall dimensions and number of stories measured from Google Earth and other publicly available internet searches. This measurement may not reflect the actual heated square footage but provides a general size of the heated square feet of the overall building.

BUREAU VERITAS PROJECT: 158982.22R000-021.379

PCB Air Indoor Testing

At the time of the onsite evaluation of this facility PCB air testing has not been conducted. Further ongoing information can be found on the Agency of Natural Resources PCB in Schools website Agency of Natural Resources PCB in Schools.

School Educational Capacity and Programming Space

As part of the FCA report, school administrative staff were asked to conduct a self-assessment of whether their school building meets their space, operational needs and if they have sufficient building capacity and appropriate spaces to deliver educational programming. The school responses to the survey are reported in Appendix D. The respondents indicated that the following areas were inadequate to meet current needs:

A space needs self-assessment was conducted by the school administrative staff which identified space constraints in the following areas:

- Adequate number of classrooms.
- Adequate overall building space.
- Confidential space to maintain FERPA, HIPPA or IEP requirements.
- Administrative offices and/or office space for staff.
- Cafeteria, kitchen and/or gymnasium space.

The Depleted Value FcI ratings scale indicates the estimate of a building's overall amount of consumed system life. The Depleted Value FCI ratings scale indicates the estimated condition of the system. Generally, the higher the Depleted Value FCI, the greater the need to repair or replace a system. Note that the FCI can also be calculated for system groups, building types and other aggregations. The estimated percentage of collective system life left in a building, also referred to as Remaining Useful Life (RUL). The higher the RUL, the newer the system. The sum of Depleted Value FCI and RUL will equal 100%.

Depleted Value Index		
	Index Value	68.4%

System Expenditure Forecast							
System	Immediate	Short Term (1-2 yr)	Near Term (3-5 yr)	Med Term (6-10 yr)	Long Term (11-20 yr)	TOTAL	
Facade	-	\$216,581	-	-	\$655,166	\$871,747	
Roofing	-	\$11,033	\$295,691	\$412,930	\$163,344	\$882,998	
Interiors	-	\$425,685	\$989,627	\$5,534	\$2,082,352	\$3,503,198	
Conveying	-	\$74,263	\$15,297	-	\$15,321	\$104,881	
Plumbing	-	\$214,088	\$26,333	\$14,442	-	\$254,863	
HVAC	-	\$120,515	\$857,768	\$28,269	\$919,644	\$1,926,196	
Fire Protection	-	\$4,243	\$150,536	-	-	\$154,779	
Electrical	-	\$195,841	\$110,583	\$56,573	\$1,476,128	\$1,839,125	
Fire Alarm & Electronic Systems	-	-	\$225,374	\$768,670	-	\$994,044	
Equipment & Furnishings	-	\$56,756	\$88,563	\$159,469	\$220,978	\$525,766	
Special Construction & Demo	-	-	-	\$184,481	\$31,816	\$216,297	
Site Development	-	\$23,764	\$114,071	\$129,590	\$182,123	\$449,548	
Site Pavement	-	-	\$497,899	-	\$186,039	\$683,938	
Site Utilities	-	\$8,911	-	-	\$117,482	\$126,393	
TOTALS	\$0	\$1,351,680	\$3,371,742	\$1,759,958	\$6,050,393	\$12,533,773	



4. Property Space Use and Observed Areas

Areas Observed

The interior spaces were observed to gain a clear understanding of the property's overall condition. Other areas accessed included the site within the property boundaries, the exterior of the property and the roofs.

Key Spaces Not Observed

All key areas of the property were accessible and observed.



5. ADA Accessibility

Generally, Title II of the Americans with Disabilities Act (ADA) prohibits discrimination by entities to access and use of "areas of public accommodations" and "public facilities" on the basis of disability. Regardless of their age, these areas and facilities must be maintained and operated to comply with the Americans with Disabilities Act Accessibility Guidelines (ADAAG).

A public entity (i.e., city governments) shall operate each service, program, or activity so that the service, program, or activity, when viewed in its entirety, is readily accessible to and usable by individuals with disabilities.

However, this does not:

- Necessarily requires a public entity to make each of its existing facilities accessible to and usable by individuals with disabilities.
- 2. Require a public entity to take any action that would threaten or destroy the historic significance of an historic property; or
- 3. Require a public entity to take any action that it can demonstrate would result in a fundamental alteration in the nature of a service, program, or activity or in undue financial and administrative burdens. In those circumstances where personnel of the public entity believe that the proposed action would fundamentally alter the service, program, or activity or would result in undue financial and administrative burdens, a public entity has the burden of proving that compliance with 35.150(a) of this part would result in such alteration or burdens. The decision that compliance would result in such alteration or burdens must be made by the head of a public entity or his or her designee after considering all resources available for use in the funding and operation of the service, program, or activity, and must be accompanied by a written statement of the reasons for reaching that conclusion. If an action would result in such an alteration or such burdens, a public entity shall take any other action that would not result in such an alteration or such burdens but would nevertheless ensure that individuals with disabilities receive the benefits or services provided by the public entity.

Removal of barriers to accessibility should be addressed from a liability standpoint in order to comply with federal law, but the barriers may or may not be building code violations. The Americans with Disabilities Act Accessibility Guidelines are part of the ADA federal civil rights law pertaining to the disabled and are not a construction code. State and local jurisdictions have adopted the ADA Guidelines or have adopted other standards for accessibility as part of their construction codes.

During the FCA, Bureau Veritas performed a limited high-level accessibility review of the facility non-specific to any local regulations or codes. The scope of the visual observation was limited to the same areas observed while performing the FCA and the categories set forth in the appendix. It is understood by the Client that the limited observations described herein do not comprise a full ADA Compliance Survey, and that such a survey is beyond the scope of this particular assessment. A full measured ADA survey would be required to identify any and all specific potential accessibility issues. Additional clarifications of this limited survey:

- This survey was visual in nature and actual measurements were not taken to verify compliance.
- Only a representative sample of areas was observed.
- Two overview photos were taken for each subsection regardless of perceived compliance or non-compliance.
- Itemized costs for individual non-compliant items are not included in the dataset.
- For any "none" boxes checked or reference to "no issues" identified, that alone does not guarantee full compliance.

The facility was originally constructed in 1956. The facility was renovated in 1994 and has widespread accessibility. No information about complaints or pending litigation associated with potential accessibility issues was provided during the interview process.

A detailed follow-up accessibility study is included as a recommendation based on the potential that specific ADA violations, not in this scope of services, may exist. Reference the appendix for specific data, photos, and tables or checklists associated with this limited accessibility survey.



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6. Purpose and Scope

Purpose

Bureau Veritas was retained by the client to render an opinion as to the Property's current general physical condition on the day of the site visit.

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Based on the observations, interviews and document review outlined below, this report identifies significant deferred maintenance issues, existing deficiencies, and material code violations of record, which affect the Property's use. Opinions are rendered as to its structural integrity, building system condition and the Property's overall condition. The report also notes building systems or components that have realized or exceeded their typical expected useful lives. The physical condition of building systems and related components are typically defined as being in one of five condition ratings. For the purposes of this report, the following definitions are used:

Condition Ratings	
Excellent	New or very close to new; component or system typically has been installed within the past year, sound and performing its function. Eventual repair or replacement will be required when the component or system either reaches the end of its useful life or fails in service.
Good	Satisfactory as-is. Component or system is sound and performing its function, typically within the first third of its lifecycle. However, it may show minor signs of normal wear and tear. Repair or replacement will be required when the component or system either reaches the end of its useful life or fails in service.
Fair	Showing signs of wear and use but still satisfactory as-is, typically near the median of its estimated useful life. Component or system is performing adequately at this time but may exhibit some signs of wear, deferred maintenance, or evidence of previous repairs. Repair or replacement will be required due to the component or system's condition and/or its estimated remaining useful life.
Poor	Component or system is significantly aged, flawed, functioning intermittently or unreliably; displays obvious signs of deferred maintenance; shows evidence of previous repair or workmanship not in compliance with commonly accepted standards; has become obsolete; or exhibits an inherent deficiency. The present condition could contribute to or cause the deterioration of contiguous elements or systems. Either full component replacement is needed, or repairs are required to restore to good condition, prevent premature failure, and/or prolong useful life.
Failed	Component or system has ceased functioning or performing as intended. Replacement, repair, or other significant corrective action is recommended or required.
Not Applicable	Assigning a condition does not apply or make logical sense, most commonly due to the item in question not being present.

Scope

The standard scope of the Facility Condition Assessment includes the following:

- Visit the Property to evaluate the general condition of the building and site improvements, review available construction
 documents to familiarize ourselves with, and be able to comment on, the in-place construction systems, life safety,
 mechanical, electrical, and plumbing systems, and the general-built environment.
- Identify those components that are exhibiting deferred maintenance issues and provide cost estimates for Immediate Costs and Replacement Reserves based on observed conditions, maintenance history and industry standard useful life estimates. This will include the review of documented capital improvements completed within the last five-year period and work currently contracted for, if applicable.
- Provide a full description of the Property with descriptions of in-place systems and commentary on observed conditions.
- Provide a high-level categorical general statement regarding the subject Property's compliance to Title III of the Americans with Disabilities Act. This will not constitute a full ADA survey but will help identify exposure to issues and the need for further review.
- Obtain background and historical information about the facility from a building engineer, property manager, maintenance staff, or other knowledgeable source. The preferred methodology is to have the client representative or building occupant complete a Pre-Survey Questionnaire (PSQ) in advance of the site visit. Common alternatives include a verbal interview just prior to or during the walk-through portion of the assessment.
- Review maintenance records and procedures with the in-place maintenance personnel.
- Observe a representative sample of the interior spaces/units, including vacant spaces/units, to gain a clear
 understanding of the property's overall condition. Other areas to be observed include the exterior of the property, the
 roofs, interior common areas, and the significant mechanical, electrical and elevator equipment rooms.
- Provide recommendations for additional studies, if required, with related budgetary information.
- Provide an Executive Summary at the beginning of this report, which highlights key findings and includes a Facility Condition Index as a basis for comparing the relative conditions of the buildings within the portfolio.





7. Opinions of Probable Costs

Cost estimates are attached throughout this report, with the Replacement Reserves in the appendix.

These estimates are based on Invoice or Bid Document/s provided either by the Owner/facility and construction costs developed by construction resources such as R.S. Means, CBRE Whitestone, and Marshall & Swift, Bureau Veritas's experience with past costs for similar properties, city cost indexes, and assumptions regarding future economic conditions.

Opinions of probable costs should only be construed as preliminary, order of magnitude budgets. Actual costs most probably will vary from the consultant's opinions of probable costs depending on such matters as type and design of suggested remedy, quality of materials and installation, manufacturer and type of equipment or system selected, field conditions, whether a physical deficiency is repaired or replaced in whole, phasing or bundling of the work (if applicable), quality of contractor, quality of project management exercised, market conditions, use of subcontractors, and whether competitive pricing is solicited, etc. Certain opinions of probable costs cannot be developed within the scope of this guide without further study. Opinions of probable cost for further study should be included in the FCA.

Methodology

Based upon site observations, research, and judgment, along with referencing Expected Useful Life (EUL) tables from various industry sources, Bureau Veritas opines as to when a system or component will most probably necessitate replacement. Accurate historical replacement records, if provided, are typically the best source of information. Exposure to the elements, initial quality and installation, extent of use, the quality and amount of preventive maintenance exercised, etc., are all factors that impact the effective age of a system or component. As a result, a system or component may have an effective age that is greater or less than its actual chronological age. The Remaining Useful Life (RUL) of a component or system equals the EUL less its effective age, whether explicitly or implicitly stated. Projections of Remaining Useful Life (RUL) are based primarily on age and condition with the presumption of continued use and maintenance of the Property similar to the observed and reported past use and maintenance practices, in conjunction with the professional judgment of Bureau Veritas's assessors. Significant changes in occupants and/or usage may affect the service life of some systems or components.

Where quantities could not be or were not derived from an actual construction document take-off or facility walk-through, and/or where systemic costs are more applicable or provide more intrinsic value, budgetary square foot and gross square foot costs are used. Estimated costs are based on professional judgment and the probable or actual extent of the observed defect, inclusive of the cost to design, procure, construct and manage the corrections.

Definitions

Immediate Needs

Immediate Needs are line items that require immediate action as a result of: (1) material existing or potential unsafe conditions, (2) failed or imminent failure of mission critical building systems or components, or (3) conditions that, if not addressed, have the potential to result in, or contribute to, critical element or system failure within one year or will most probably result in a significant escalation of its remedial cost.

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For database and reporting purposes the line items with RUL=0, and commonly associated with *Safety* or *Performance/Integrity* Plan Types, are considered Immediate Needs.

Replacement Reserves

Cost line items traditionally called Replacement Reserves (equivalently referred to as Lifecycle/Renewals) are for recurring probable renewals or expenditures, which are not classified as operation or maintenance expenses. The replacement reserves should be budgeted for in advance on an annual basis. Replacement Reserves are reasonably predictable both in terms of frequency and cost. However, Replacement Reserves may also include components or systems that have an indeterminable life but, nonetheless, have a potential for failure within an estimated time period.

Replacement Reserves generally exclude systems or components that are estimated to expire after the reserve term and are not considered material to the structural and mechanical integrity of the subject property. Furthermore, systems and components that are not deemed to have a material effect on the use of the Property are also excluded. Costs that are caused by acts of God, accidents, or other occurrences that are typically covered by insurance, rather than reserved for, are also excluded.

Replacement costs are solicited from ownership/property management, Bureau Veritas's discussions with service companies, manufacturers' representatives, and previous experience in preparing such schedules for other similar facilities. Costs for work performed by the ownership's or property management's maintenance staff are also considered.

Bureau Veritas's reserve methodology involves identification and quantification of those systems or components requiring capital reserve funds within the assessment period. The assessment period is defined as the effective age plus the reserve term. Additional information concerning systems or component's respective replacement costs (in today's dollars), typical expected useful lives, and remaining useful lives were estimated so that a funding schedule could be prepared. The Replacement Reserves Schedule presupposes that all required remedial work has been performed or that monies for remediation have been budgeted for items defined as Immediate Needs.

For the purposes of 'bucketizing' the System Expenditure Forecasts in this report, the Replacement Reserves have been subdivided and grouped as follows: Short Term (years 1-3), Near Term (years 4-5), Medium Term (years 6-10), and Long Term (years 11-20).

Key Findings

In an effort to highlight the most significant cost items and not be overwhelmed by the Replacement Reserves report in its totality, a subsection of Key Findings is included within the Executive Summary section of this report. Key Findings typically include repairs or replacements of deficient items within the first five-year window, as well as the most significant high-dollar line items that fall anywhere within the ten-year term. Note that while there is some subjectivity associated with identifying the Key Findings, the Immediate Needs are always included as a subset.

Exceedingly Aged

A common scenario encountered during the assessment process, and a frequent source of debate, occurs when classifying and describing "very old" systems or components that are still functioning adequately and do not appear nor were reported to be in any way deficient. To help provide some additional intelligence on these items, such components will be tagged in the database as Exceedingly Aged. This designation will be reserved for mechanical or electrical systems or components that have aged well beyond their industry standard lifecycles, typically at least 15 years beyond and/or twice their Estimated Useful Life (EUL). In tandem with this designation, these items will be assigned a Remaining Useful Life (RUL) not less than two years but not greater than 1/3 of their standard EUL. As such the recommended replacement time for these components will reside outside the typical Short-Term window but will not be pushed 'irresponsibly' (too far) into the future.



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8. STEM/STEAM Assessment

STEM and STEAM education is an integrated curriculum that is driven by exploratory project-based learning and student-centered development of ideas and solutions. BV has evaluated the facility for the existence of spaces and systems to provide STEM/STEAM education based on input from the point of contact for the school. The below table identifies the required standards and to what degree the requirements have been met for the facility.

STEM/STEAM Evaluations						
Property Name	STEM/STEAM Suitability Score	Project Number	School Type	Square Footage		
Barre City Elem/Middle School - Main Building	50%	158982.22R000-021.379	Middle	125,000		

Suitability Classification	Scale
Compares Poorly	Score 0 - 25
Compares Marginally	Score 25-50
Compares Fairly	Score 50-75
Compares Well	Score 75 - 100

Score	Score
Value	Impact
1- Meets	100%
2- Partial	50%
3- Missing	0%

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Details of the STEM/STEAM evaluation are included in the appendix of this report. Reference this appendix for specific data associated with this limited survey.

The purpose of this Energy Audit is to provide Barre City Elementary/Middle School with a baseline of energy usage, the relative energy efficiency of the facility, and specific recommendations for Energy Conservation Measures. Information obtained from these analyses may be used to support a future application to an Energy Conservation Program, Federal and Utility grants towards energy conservation, as well as support performance contracting, justify a municipal bond-funded improvement program, or as a basis for replacement of equipment or systems.

The energy audit consisted of an on-site visual assessment to determine current conditions, itemize the energy consuming equipment (i.e. Boilers, Make-Up Air Units, DWH equipment); review lighting systems both exterior and interior; and review efficiency of all such equipment. The study also included interviews and consultation with operational and maintenance personnel. The following is a summary of the tasks and reporting that make up the Energy Audit portion of the report.

The following is a summary of the tasks and reporting that make up the Energy Audit portion of the report.

Energy and Water Using Equipment

 Bureau Veritas has surveyed the common areas, offices, maintenance facilities and mechanical rooms to document utility-related equipment, including heating systems, cooling systems, air handling systems and lighting systems.

Building Envelope

9. Energy Audit

 Bureau Veritas has reviewed the characteristics and conditions of the building envelope, checking insulation values and conditions. This review also includes an inspection of the condition of walls, windows, doors, roof areas, insulation and special use areas.

Recommendations for Energy Savings Opportunities

Based on the information gathered during the on-site assessment, the utility rates, as well as recent consumption data
and engineering analysis, Bureau Veritas has identified opportunities to save energy and provide probable construction
costs, projected energy/utility savings and provide a simple payback analysis.

Analysis of Energy Consumption

Based on the information gathered during the on-site assessment, Bureau Veritas has conducted an analysis of the
energy usage of all equipment, and identified which equipment is using the most energy and what equipment upgrades
may be necessary. As a result, equipment upgrades, or replacements are identified that may provide a reasonable
return on the investment and improve maintenance reliability.

Energy Audit Process

- Interviewing staff and review plans and past upgrades
- · Performing an energy audit for each use type
- Performing a preliminary evaluation of the utility system
- Analyzing findings, utilizing ECM cost-benefit worksheets
- Making preliminary recommendations for system energy improvements and measures
- Estimating initial cost and changes in operating and maintenance costs based on implementation of energy efficiency measures.

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· Ranking recommended cost measures, based on the criticality of the project and the largest payback.





10. Historical Energy and Water Performance Metrics

Utility Data Tabulation Methodology

Establishing the energy baseline begins with an analysis of the utility cost and consumption of the facility. Utilizing the historical energy data and local weather information, we evaluate the existing utility consumption and assign it to the various end-uses throughout the buildings. The Historical Data Analysis breaks down utilities by consumption, cost and annual profile.

This data is analyzed using standard engineering assumptions and practices. The analysis serves the following functions:

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- Allows our engineers to benchmark the energy and water consumption of the facilities against consumption of efficient buildings of similar construction, use and occupancy.
- Generates the historical and current unit costs for energy and water.
- Provides an indication of how well changes in energy consumption correlate to changes in weather.
- Reveals potential opportunities for energy consumption and/or cost reduction. For example, the analysis may indicate
 that there is excessive, simultaneous heating and cooling, which may mean that there is an opportunity to improve the
 control of the heating and cooling systems.

By performing this analysis and leveraging our experience, our engineers prioritize buildings and pinpoint systems for additional investigation during the site visit, thereby maximizing the benefit of their time spent on-site and minimizing time and effort by the customer's personnel.

No utility data was received by Bureau Veritas from the client at the time of report compilation. As a result, Bureau Veritas has used average utility costs from other VT Agency of Education properties to approximate the utility costs for this property. Bureau Veritas will update the report on receipt of the actual data from the client.

Utilities Metering at a	Glance
Number of electric meters observed	One
Number of gas meters observed	None
Number of central steam meters observed	None
Number of domestic water meters observed	One

		Average Utility Rates			
Electricity	Wood Chips	Propane	No. 2 Oil	Water & Sewer	
Average Rate Average Rate		Average Rate	Average Rate	Blended Rate	
\$0.18 / kWh (est.)	\$0.10 / Lb. (est.)	\$1.96 / Gal (est.)	\$2.78 / Gal (est.)	\$16.11 / kGal (est.)	

Electricity

Green Mountain Power provides electrical service to the facility

The consumption pattern likely varies seasonally. Any seasonal variation in consumption is primarily attributed to periods when school is out of session, while the static base load primarily consists of lighting and appliances.

Note: No utility data was received by Bureau Veritas from the client at the time of report compilation. As a result, Bureau Veritas has used the electric rate from other properties within the same geographical region having similar construction layout and usage patterns. Bureau Veritas will update the report on receipt of the actual data from the client.



Wood Chips/Pellets

The wood chip fuel supplier to the facility was not provided. The deliveries are made on an as-needed basis.

The primary use of wood chips is for space heating. Any seasonal variation in consumption is primarily attributed to the heating loads, while the static base load primarily consists of domestic water heating.

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Note: No utility data was received by Bureau Veritas from the client at the time of report compilation. As a result, Bureau Veritas has used the utility rates from other properties within the same geographical region having similar construction layout and usage patterns. Bureau Veritas will update the report on receipt of the actual data from the client.

Propane and Fuel Oil

The propane and fuel oil suppliers to the facility were not provided. The deliveries are made on an as-needed basis. The primary use of propane is for cooking. The primary use of fuel oil is for space heating and domestic water heating. Any seasonal variation in consumption is primarily attributed to the heating loads, while the static base load primarily consists of domestic water heating and cooking.

Note: No utility data was received by Bureau Veritas from the client at the time of report compilation. As a result, Bureau Veritas has used the utility rates from other properties within the same geographical region having similar construction layout and usage patterns. Bureau Veritas will update the report on receipt of the actual data from the client.



Water and Sewer

The Town of Barre satisfies the water and sewer requirements of the facility.

The water consumption pattern most likely remains more or less flat over the 10-month period that school is in session.

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Note: No utility data was received by Bureau Veritas from the client at the time of report compilation. As a result, Bureau Veritas has used the utility rate from other properties within the same geographical region having similar construction layout and usage patterns. Bureau Veritas will update the report on receipt of the actual data from the client.

11. Energy Conservation Measures

Bureau Veritas has conducted an Energy Audit on Barre City Elementary/Middle School. The study included a review of the building's construction features, historical energy and water consumption and costs, review of the building envelope, HVAC equipment, heat distribution systems, lighting, and the building's operational and maintenance practices.

Bureau Veritas has evaluated three Energy Conservation Measures (ECMs) for this property. The savings for each measure are calculated using standard engineering methods followed in the industry, and detailed calculations for ECM are provided in Appendix H for reference. A 10% discount in energy savings was applied to account for the interactive effects amongst the ECMs. In addition to the consideration of the interactive effects, Bureau Veritas has applied a 15% contingency to the implementation costs to account for potential cost overruns during the implementation of the ECMs.

The following table summarizes the recommended ECMs in terms of description, investment cost, energy consumption reduction, and cost savings.

Recommended Non- Renewable Energy (Conservation Measures: Financial Impact
Total Projected Initial ECM Investment	\$11,684
Estimated Annual Cost Savings Related to ECMs	\$3,384
Net Effective ECM Payback	3.5 Years

Key Metrics to Benchmark the Subject Property's Energy Usage Profile

- Building Site Energy Use Intensity The sum of the total site energy use in thousands of Btu per unit of gross building area. Site energy accounts for all energy consumed at the building location only not the energy consumed during generation and transmission of the energy to the site.
- Building Source Energy Use Intensity The sum of the total source energy use in thousands of Btu per unit of gross building area. Source energy is the energy consumed during generation and transmission in supplying the energy to vour site.
- Building Cost Intensity This metric is the sum of all energy use costs in dollars per unit of gross building area.
- Greenhouse Gas Emissions Although there are numerous gases that are classified as contributors to the total for Greenhouse Emissions, the scope of this energy audit focuses on carbon dioxide (CO₂). Carbon dioxide enters the atmosphere through the burning of fossil fuels (oil, natural gas, and coal), solid waste, trees and wood products, and also as a result of other chemical reactions (e.g., manufacture of cement).



Energy Conservation Measures Screening:

Bureau Veritas screens ECMs using the financial methodology below. ECMs which are considered financially viable must meet the criteria.

Simple Payback Period –The number of years required for the cumulative value of energy or water cost savings less future non-fuel or non-water costs to equal the investment costs of the building energy or water system, without consideration of discount rates. ECMs with a payback period greater than the Expected Useful Life (EUL) of the project are not typically recommended, as the cost of the project will not be recovered during the lifespan of the equipment. These ECMs are recommended for implementation during future system replacement. At that time, replacement may be evaluated based on the premium cost of installing energy efficient equipment.



			rgy co	Energy conservation measures	ı Medsu	sa				
Description of ECIM	Location	Net Projected Initial Investment (\$)	Estimated Annual Savings Propane (Gal)	Estimated Annual Savings #2 Oil (Gal)	Estimated Annual Savings Electricity (KWh)	Estimated Annual Savings Water (KGal)	Total Energy Total Green Savings House Gas (MIMBTU) Savings (MtCO ² /Yr.)	Total Green House Gas Savings (MtCO²/Yr.)	Estimated Utility Cost Savings (\$)	Estim Annual Saving
Install Outside Air Temperature Reset Controls For Hot Water Boilers, Install OA sesnsors on (1x) boiler(s)	Location: Boiler room	\$1,131	0.0	720.0	0.0	0.0	7:66	7.3	\$2,002	vi.
Install Low Flow Faucet Aerators, Instal OAsesnsors on (1x) boiler(s), Replace 121x 1.5GPW rated bathroom aerators with 0.5GPW WaterSense certified aerators	Location: Restrooms and classrooms	\$1,835	0.0	65.9	0.0	15.8	9.1	0.7	\$183	- vi-
Retrofit Flush Tank Toilets to Dual Flush, Replace 112x 1.5GPM rated bathroom aerators with 0.5GPM WaterSense certified aerators	Location: Restrooms	\$7,194	0.0	0.0	0.0	81.9	0.0	0.0	0\$	v.
no/low costitems		0\$	0.0	0.0	0.0	0.0	0.0	0.0	\$0	Ş
apital cost		\$10,160	0.0	785.9	0.0	97.8	108.8	8.0	\$2,185	\$
Savings Discount @10%			0.0	9'84-	0.0	-9.8	-10.9	-0.8	-\$218	\$
ingency Expenses @ 15%		\$1,524								
rimprovements		\$11,684	0.0	707.3	0.0	88.0	98.0	7.2	\$1,966	ŵ

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5.5

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12. Certification

Vermont Agency of Education, Phase Two (the Client) retained Bureau Veritas to perform this Facility Condition
Assessment in connection with its continued operation of Barre City Elementary/Middle School - Main Building, 50
Parkside Terrace, Barre VT, 05641, the "Property". It is our understanding that the primary interest of the Client is to locate and evaluate materials and building system defects that might significantly affect the value of the property and to determine if the present Property has conditions that will have a significant impact on its continued operations.

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The conclusions and recommendations presented in this report are based on the brief review of the plans and records made available to our Project Manager during the site visit, interviews of available property management personnel and maintenance contractors familiar with the Property, appropriate inquiry of municipal authorities, our Project Manager's walk-through observations during the site visit, and our experience with similar properties.

No testing, exploratory probing, dismantling, or operating of equipment or in-depth studies were performed unless specifically required under the *Purpose and Scope* section of this report. This assessment did not include engineering calculations to determine the adequacy of the Property's original design or existing systems. Although walk-through observations were performed, not all areas may have been observed (see Section 1 for specific details). There may be defects in the Property, which were in areas not observed or readily accessible, may not have been visible, or were not disclosed by management personnel when questioned. The report describes property conditions at the time that the observations and research were conducted.

This report has been prepared on behalf of and exclusively for the use of the Client for the purpose stated within the *Purpose and Scope* section of this report. The report, or any excerpt thereof, shall not be used by any party other than the Client or for any other purpose than that specifically stated in our agreement or within the *Purpose and Scope* section of this report without the express written consent of Bureau Veritas.

Any reuse or distribution of this report without such consent shall be at the Client and the recipient's sole risk, without liability to Bureau Veritas.

Prepared by: Bureau Veritas Technical Assessments

13. Appendices

Appendix A: Photographic Record

Appendix B: Site Plans

Appendix C: Stem/Steam Assessment

Appendix D: School Educational Capacity and Programming Space

Appendix E: Accessibility Review & Photos

Appendix F: Component Condition Report

Appendix G: Replacement Reserves

Appendix H: Depleted Value Report





Appendix A: Photographic Record





1 - OVERVIEW OF FRONT ELEVATION





3 - OVERVIEW OF LEFT ELEVATION



4 - OVERVIEW OF RIGHT ELEVATION



5 - OVERVIEW OF REAR ELEVATION



6 - OVERVIEW OF WHOLE BUILDING



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Photographic Overview



7 - OVERVIEW OF PLAYGROUND AREA



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8 - OVERVIEW OF HALLWAY RAMP



9 - OVERVIEW OF LIBRARY SPACE



10 - OVERVIEW OF SAMPLE CLASSROOM



11 - OVERVIEW OF SAMPLE CLASSROOM



12 - OVERVIEW OF MUSIC ROOM





13 - OVERVIEW OF ART ROOM



14 - OVERVIEW OF CAFETERIA SPACE



15 - TEACHER SUPPLY SPACE



16 - OVERVIEW OF FITNESS SPACE



17 - OVERVIEW OF SHOP SPACE



18 - OVERVIEW OF GYMNASIUM SPACE

Appendix B: Site Plans





Project Name	Project Number		
Vermont Agency of Education	158982.22R000-021.379		
	Barre City Elementary/Middle School		
Source	On-Site Date		
Google MyMaps	July 17, 2023		

Appendix C: Stem/Steam Assessment



STEM/STEAM Evaluation

Property Name	STEM/STEAM Suitability Score	Project Number	School Type	Square Footage
Barre City Elem/Middle School - Main Building	50%	158982.22R000-021.379	Middle	125,000

Suitability Classification	Scale
Compares Poorly	Score 0 - 25
Compares Marginally	Score 25-50
Compares Fairly	Score 50-75
Compares Well	Score 75 - 100

Score Value	Score Impact
1- Meets	100%
2- Partial	50%
3- Missing	0%

Rooms to support STEM/STEAM Curriculum - X= Required by School Type					
Room Types	Room Present (Yes/No)	Elementary School	Middle School	High School	
Does the facility have an Art Room?	Yes	X	X	X	
Does the facility have a Science Lab?	Yes		Х	Х	
Does the facility have a Shop (Machine, Wood, Metal, etc.)?	Yes		Х	Х	
Does the facility have a Computer Lab?	Yes	X	Х	Х	
Does the facility have a dedicated STEM/STEAM Room?	No	Х	Х	Х	

		Ove	erall Complia	nce	
Questions	Art Room	Science Labs	Shops	Computer Lab	STEM/STEAM
Does the room have chemical resilient perimeter counters with a minimum of two sinks, one being ADA accessible?	1- Meets	1- Meets	1- Meets		
Does the room have electrical outlet distribution along perimeter walls and from the ceiling?	2- Partial	2- Partial	1- Meets	2- Partial	
Does the room have open shelving and lockable storage cabinets?	1- Meets	1- Meets	1- Meets		
Does the room have technology connectivity and an interactive display?	1- Meets	1- Meets	1- Meets	1- Meets	
Does the room have appropriate wet floor finishes?	1- Meets	1- Meets	1- Meets		
Does the room have visual display boards?	1- Meets	1- Meets	1- Meets	1- Meets	
Does the room have Prep/Storage Room?	1- Meets	1- Meets	1- Meets	2- Partial	
Does the room have direct access to the exterior?	3- Missing	3- Missing	1- Meets		
Does the room the ability to structurally suspend items from the ceiling?	3- Missing	3- Missing	1- Meets		
Does the have goggle cabinets, fire extinguisher, eye wash and deluge shower?	2- Partial	2- Partial	2- Partial		
Room Type Score	70%	70%	95%	75%	0%

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Appendix D:

School Educational Capacity and Programming Space



School Educational Capacity and Programming Space

As part of Act 72, AOE has contracted with Bureau Veritas (BVNA) to complete a Facility Condition Assessment (FCA) of very public school building in Vermont. One component of the FCA report will be to identify whether the size and configuration of your current facility is meeting your school's educational and operational needs. In order for us to accurately capture your facility space needs, it is necessary for the AOE and BVNA to receive your input. To complete this brief survey, we recommend that you consult with school building leadership and facilities/custodial staff.

School Name

Barre City Elementary/Middle School

SU/SD

Barre Supervisory Union

Does the school have an adequate number of classrooms to meet student enrollment needs?

No

Please provide some explanation and/or context (known needs, barriers, other constraints outside of space, etc.):

No we need more areas for restorative classrooms, early education and special education.

Does the school have adequate space to accommodate all the current educational programs being offered?

No

Please describe capacity of your school building(s) to deliver educational programming:

No more space is needed.

Would the school provide additional programming if available space was provided?

Yes

Yes, more student would remain in our building and not sent out.

Does the school have adequate confidential space to provide 1:1 services to students as required to maintain FERPA, HIPPA or IEP requirements?

No

Please describe:

No more space for counseling and student cool down space.

Do the school have adequate administrative offices and/or office space for staff?

No

Please describe:

No we need more space for admin.

Based on the size of enrollment does the size of the cafeteria, kitchen and gymnasium meet the current and future enrollment needs?

No

Please describe

More gym and cafeteria space is needed.

Appendix E: Accessibility Review & Photos



Visual Survey - ADA Standards for Accessible Design

Property Name: Barre City Elem/Middle School - Main Building

BV Project Number: 158982.22R000-021.379

Facility History & Interview	v			
Question	Yes	No	Unk	Comments
ADA: Has an accessibility study been performed at the site? If so, when?			х	
2. ADA: If a study has occurred, have the associated recommendations been addressed? In full or in part?			х	
3. ADA: Have there been regular complaints about accessibility issues, or previous or pending litigation?			х	

Building : Accessib	oility Issues			
Category	Major Issues (ADA study recommended)	Moderate Issues (ADA study recommended)	Minor Issues	None*
Parking				None
Exterior Route				None
Building Entrances				None
Interior Route				None
Elevators				None
Public Restrooms				None
Playground				None

^{*}Be cognizant that if the "None" box is marked that does not guarantee full compliance; this study is limited in nature



1 - OVERVIEW OF ACCESSIBLE PARKING AREA



2 - CLOSE-UP OF STALL or 2ND PARK AREA



3 - EXT RAMP or PRIMARY PATH OF TRAVEL



4 - CURB CUT or 2ND PATH OF TRAVEL



5 - MAIN ACCESSIBLE ENTRANCE



6 - 2nd ENTRANCE or SIGNAGE/HARDWARE



7 - ACCESSIBLE INTERIOR PATH (RAMP/LIFT)



8 - HARDWARE, STAIR RAILS or SELF-SERVICE AREA



9 - TOILET STALL OVERVIEW



10 - SINK, FAUCET HANDLES or ACCESSORIES



11 - ACCESSIBLE ROUTE TO PLAYGROUND



12 - OVERVIEW OF PLAYGROUND







14 - IN-CAB CONTROLS/EMERGENCY CALL PANEL

The table below is intended to be used as a general reference guide to help differentiate the orders of magnitude between some of the more commonly observed accessibility issues. The table is not intended to be all-inclusive, and boxes checked in the tables above do not necessarily mean those specific problems or shortcomings cited as examples below exist at the subject buildings and sites. Reference the data and photos above and/or the *Key Findings* section in the body of the report for visuals and/or more specifics about the particular subject site conditions.

	Major Issues	Moderate Issues	Minor Issues
	(ADA study recommended)	(ADA study recommended)	
Parking	Needs full reconstruction Excessive slopes over 3% require major re-grading No level locations to add required spaces	No or non-compliant curb cuts Moderate difficulty to add required accessible spaces Slopes close to compliant	Painting of markings needed Signage height non-complian Signage missing
Exterior Route	Large areas of sidewalks with excessive slopes No ramp when needed Ramps with excessive slopes	Ramps need rails Ramps need rail extensions All or most entrance door exterior maneuvering clearance areas with excessive slopes	One entrance door exterior maneuvering clearance area with excessive slope Non-compliant signage
Building Entrances	No compliant entrance exists Exterior entry door/s not wide enough Entrance vestibule requires complete reconstruction / reconfiguration due to clearance	Need significant # of lever handles Need to add or modify automatic door opener Entrance vestibule requires limited reconfigurations	A few door knobs instead of lever handles Non-compliant door threshold
Interior Route	- All or most interior doors appear less than 32" wide - Corridors less than 36" wide - No ramp when needed - Ramps with excessive slopes - Non-compliant treads/risers at means of egress stairways	- Single height drinking fountains - Drinking fountain too high or protrudes into accessible route - Ramps need rails - Ramps need rail extensions - Need significant # of lever handles - Non-compliant rail extensions at egress stairways - All/most door thresholds high	One door threshold too high A few door knobs instead of lever handles Non-compliant door pressure Non-compliant signage Switches not within reach range
Elevators	No elevator present when required Elevator cab too small	Panel control buttons not at compliant height No hands-free emergency communication system Elevator only has mechanical stops	- Audible/visual signals at ever floor may be lacking - Minor signage / Braille issues
Public Restrooms	No ADA RR on each accessible floor Restroom(s) too small Entire restroom(s) requires renovation Water closet clearance requires moving walls	Interior doors appear less than 32" wide Missing or non-compliant grab bars Easily fixable clearance issues	- Minor height adjustments required - Non-compliant door pressure - Missing a visual strobe (only required if audible fire alarm already present) - Missing lavatory pipe wraps - Signage not compliant

	Major Issues (ADA study recommended)	Moderate Issues (ADA study recommended)	Minor Issues
Kitchens/Kitchenettes	Clear space for each appliance not present Clearance between opposing counters too narrow	- Sink and counter too high - Sink knee and toe clearance not provided where required (built-in) - Less than 50% of cabinetry within reach range	Dispensers not within reach range Switches not within reach range Missing sink pipe wraps if knee and toe clearance required
Playgrounds & Pools	Large areas of surfacing non- compliant Install compliant play structures No pool lift provided	Small area/s of surfacing or equipment non-compliant Moderate issues with path of travel to playground/pool	- Minor issues with path of travel to playground/pool

BARRE CITY ELEMENTARY/MIDDLE SCHOOL - MAIN BUILDING

BUREAU VERITAS PROJECT: 158982.22R000-021.379

Appendix F:
Component Condition Report



Component Condition Report | BARRE CITY ELEM/MIDDLE SCHOOL - Main Building

UFL3 Code	Location	Category	Condition	Asset/Component/Repair	Quantity	Unit	RUL	Q
Facade								
B2010	Building Exterior	Facade	Fair	Exterior Walls, Metal/Insulated Sandwich Panels	17,500	SF	17	6878194
B2010	Building Exterior	Facade	Fair	Exterior Walls, Concrete Block (CMU)	52,700	SF	22	6878166
B2020	Building Exterior	Facade	Fair	Window, Aluminum Double-Glazed, 16-25 SF	201		2	6878142
B2050	Site	Facade	Fair	Overhead/Dock Door, Aluminum, 12'x12' (144 SF)	3		2	6878241
B2050	Building Exterior	Facade	Fair	Exterior Door, Steel, Standard	22		12	6878181
Roofing								
10	Roof	Roofing	Fair	Roofing, Single-Ply Membrane, TPO/PVC	19,750	SF	7	6878254
B3010	Roof	Roofing	Excellent	Roofing, Asphalt Shingle, 20-Year Standard	23,800	SF	20	6878150
B3010	Roof	Roofing	Fair	Roofing, Single-Ply Membrane, EPDM	24,600	SF	3	6878183
B3060	Roof	Roofing	Fair	Roof Skylight, per unit, up to 20 SF	8		2	6878263
Interiors								
C1010	Throughout building	Interiors	Fair	Interior Wall, Movable Partitions, Fabric 8 to 10' Height	200	5	8	6878224
C1030	Throughout Building	Interiors	Fair	Interior Door, Wood, Solid-Core Decorative High-End	69		12	6878259
C1030	Throughout building	Interiors	Fair	Interior Door, Wood, Solid-Core Decorative High-End w/ Glazing	79		12	6878233
C1030	Basement	Interiors	Fair	Interior Door, Steel, w/ Extensive Glazing	31		12	6878251
C1030	Basement	Interiors	Fair	Interior Door, Steel, Standard	20		12	6878162
C1070	Throughout building	Interiors	Fair	Suspended Ceilings, Acoustical Tile (ACT)	100,000	SF	n	6878242
C1090	Hallways	Interiors	Fair	Lockers, Steel-Baked Enamel, 12" W x 15" D x 72" H	250		12	6878212
C2010	Throughout building	Interiors	Fair	Wall Finishes, any surface, Prep & Paint	220,000	SF	2	6878225
C2030	Throughout building	Interiors	Fair	Flooring, Carpet, Commercial Standard	2,000	SF	2	6878147
C2030	Basement	Interiors	Fair	Flooring, any surface, w/ Paint or Sealant, Prep & Paint	7,500	R	2	6878159
C2030	Throughout building	Interiors	Fair	Flooring, Laminate Faux Wood	1,500	S	n	6878169
C2030	Workout room	Interiors	Fair	Flooring, Rubber Tile	200	SF	7	6878175
C2030	Throughout building	Interiors	Fair	Flooring, Vinyl Tile (VCT)	100,000	SF	2	6878199
C2030	Stage	Interiors	Fair	Flooring, Wood, Strip	1,500	SF	2	6878283
Conveying								
D1010	Elevator	Conveying	Fair	Elevator Cab Finishes, Standard	1		3	6878193
D1010	Elevator	Conveying	Fair	Elevator Controls, Automatic, 1 Car	1		3	6878277
D1010	Elevator	Conveying	Fair	Passenger Elevator, Hydraulic, 3 Floors, Renovate	1		2	6878275
Plumbing								
	Utility closet	Plumbing	Fair	Sink/Lavatory, Service Sink, Floor	4		7	6878229
	Restrooms	Plumbing	Fair	Sink/Lavatory, Wall-Hung, Vitreous China	49		2	6878219
D2010	Hallways	Plumbing	Fair	Drinking Fountain, Wall-Mounted, Single-Level	3		7	6878156
D2010	Throughout building	Plumbing	Fair	Sink/Lavatory, Vanity Top, Stainless Steel	72		2	6878276
D2010	Kitchen	Plumbing	Good	Sink/Lavatory, Commercial Kitchen, 2-Bowl	1		27	6878236
D2010	Restrooms	Plumbing	Fair	Toilet, Residential Water Closet	55		2	6878153
D2010	Kitchen	Plumbing	Fair	Sink/Lavatory, Wall-Hung, Enameled Steel	2		2	6878154
D2010	Boiler room	Plumbing	Fair	Water Heater, Indirect	1		∞	6878139
D2010	Restrooms	Plumbing	Fair	Urinal, Standard	11		3	6878223
טטטטט	Kitchen	Plimbing	ie	Supplemental Components, Grease Trap/Interceptor,	-		٣	6878186
		0					,	

Or L3 Code	Focation	Category	Condition	Asset/Component/Repair	Quantity	Ë.	Z.	_
HVAC								
D3020	Throughout building	HVAC	Fair	Unit Heater, Hydronic, 13 to 36 MBH	7		3	6878151
D3020	Boiler room	HVAC	Fair	Heat Exchanger, Plate & Frame, HVAC, 16 to 25 GPM			7	6878192
D3020	Throughout building	HVAC	Fair	Radiator, Hydronic, Baseboard (per LF)	200) LF	2	6878205
D3020	Boiler room	HVAC	Fair	Boiler, Oil, HVAC		_	2	6878171
D3020	Boiler room	HVAC	Good	Boiler, Oil, HVAC			23	6878245
D3020	Boiler room	HVAC	Fair	Unit Heater, Electric		0	3	6878287
D3020	Utility closet	HVAC	Fair	Unit Heater, Hydronic		-	2	6878180
D3020	Boiler room	HVAC	Fair	Wood Pellet Boiler, Hopper and Chute Feeder	-	1	7	6878239
D3020	Boiler room	HVAC	Fair	Boiler Supplemental Components, Expansion Tank		-	33	6878260
D3020	Boiler room	HVAC	Fair	Boiler Supplemental Components, Expansion Tank			12	6878269
D3030	Roof	HVAC	Fair	Split System, Condensing Unit/Heat Pump			2	6878158
D3030	Roof	HVAC	Fair	Split System, Condensing Unit/Heat Pump	-	1	2	6878164
D3050	Roof	HVAC	Fair	Packaged Unit, RTU, Pad or Roof-Mounted, 3 TON	7	4	3	6878170
D3050	Boiler room	HVAC	Fair	Pump, Distribution, HVAC Heating Water	7	4	3	6878246
D3050	Boiler room	HVAC	Fair	Pump, Distribution, HVAC Heating Water			2	6878218
D3050	Roof	HVAC	Fair	Packaged Unit, RTU, Pad or Roof-Mounted, 4 TON	9	9	7	6878187
D3050	Throughout building	HVAC	Fair	HVAC System, Ductwork, Medium Density	125,000	SF.	3	6878221
D3050	Roof	HVAC	Fair	Packaged Unit, RTU, Pad or Roof-Mounted			2	6878208
D3050	Roof	HVAC	Fair	Packaged Unit, RTU, Pad or Roof-Mounted			3	6878240
D3050	Roof	HVAC	Fair	Packaged Unit, RTU, Pad or Roof-Mounted	-	1	3	6878207
D3050	Roof	HVAC	Fair	Packaged Unit, RTU, Pad or Roof-Mounted	,	1	3	6878143
D3050	Roof	HVAC	Fair	Make-Up Air Unit, MUA or MAU	1	1	3	6878268
D3050	Throughout building	HVAC	Fair	HVAC System, Hydronic Piping, 2-Pipe	125,000) SF	12	6878140
D3050	Roof	HVAC	Fair	Make-Up Air Unit, MUA or MAU	1	1	3	6878155
D3060	Boiler room	HVAC	Good	Exhaust Fan, Centrifugal, 12" Damper	1	1	18	6878211
D3060	Boiler room	HVAC	Fair	Exhaust Fan, Propeller, 0.25 HP Motor	1	1	4	6878231
D3060	Roof	HVAC	Fair	Exhaust Fan, Roof or Wall-Mounted, 16" Damper	,	1	7	6878267
D3060	Greenhouse	HVAC	Fair	Exhaust Fan, Propeller, 0.25 HP Motor	1	1	7	6878172
D3060	Roof	HVAC	Fair	Exhaust Fan, Roof or Wall-Mounted, 12" Damper	,	1	3	6878206
D3060	Roof	HVAC	Fair	Exhaust Fan, Roof or Wall-Mounted, 12" Damper	,	1	8	6878220
D3060	Roof	HVAC	Fair	Exhaust Fan, Roof or Wall-Mounted, 28" Damper	1	1	3	6878261
D3060	Roof	HVAC	Fair	Exhaust Fan, Roof or Wall-Mounted, 12" Damper		_	9	6878149
Fire Protection	ion							
				Fire Suppression System, Commercial Kitchen, per LF of				
D4010	Kitchen	Fire Protection	Fair	Hood	10	5	2	6878176
D4010	Throughout building	Fire Protection	Fair	Fire Suppression System, Existing Sprinkler Heads, by SF	125,000	SF	4	6878258
Electrical								
D5010	Site	Electrical	Fair	Generator, Diesel		-	3	6878215
D5020	Electrical room	Electrical	Fair	Secondary Transformer, Dry, Stepdown	-	1	2	6878168
D5020	Electrical room	Electrical	Fair	Switchboard, 277/480 V		_	12	6878201
D5020	Electrical room	Electrical	Fair	Secondary Transformer, Dry, Stepdown	1	1	13	6878238
D5020	Electrical room	Electrical	Fair	Distribution Panel, 120/208 V	10	0	2	6878237
D5020	Electrical room	Electrical	Fair	Distribution Panel, 277/480 V	~	8	2	6878184
D5020	Electrical room	Electrical	Fair	Secondary Transformer, Dry, Stepdown		2	7	6878249
00000	The administration of the same	Flootsion	1.00	Distribution Danel 120/208 V		-		

UFL3 Code	Location	Category	Condition	Asset/Component/Repair	Quantity	Unit	RUL	Q
D5020	Electrical room	Electrical	Fair	Secondary Transformer, Dry, Stepdown	2		3	6878228
D5020	Electrical room	Electrical	Fair	Secondary Transformer, Dry, Stepdown	9		2	6878188
02030	Electrical room	Electrical	Fair	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	4		7	6878247
D2030	Electrical room	Electrical	Fair	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	4		7	6878137
	Throughout building	Electrical	Fair	Electrical System, Wiring & Switches, Average or Low Density/Complexity	125,000	SF	12	6878178
D5040	Throughout building	Electrical	Fair	Interior Lighting System, Full Upgrade, High Density & Standard Fixtures	125.000	72	12	6878243
Fire Alarm & El	Fire Alarm & Electronic Systems							
0909Q	Throughout building	Fire Alarm & Electronic Systems	Fair	Intercom/PA System, Public Address Upgrade, Facility-Wide	125,000	SF	8	6878191
D7030	Throughout building	Fire Alarm & Electronic Systems	Fair	Security/Surveillance System, Full System Upgrade, Average Density	125,000	SF	7	6878195
D7050	Throughout building	Fire Alarm & Electronic Systems	Fair	Fire Alarm System, Full System Upgrade, Standard Addressable, Upgrade/Install	125,000	SF	7	6878227
Equipment & Furnishings	urnishings							
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Walk-In, Evaporator for Refigerator/Freezer	1		m	6878265
E1030	Kitchen	Equipment & Furnishings	Poop	Foodservice Equipment, Dairy Cooler/Wells	2		12	6878281
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Steamer, Tabletop	2		3	6878256
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Icemaker, Freestanding	1		3	6878262
E1030	Kitchen	Equipment & Furnishings	Poop	Foodservice Equipment, Exhaust Hood, 8 to 10 LF	1		12	6878282
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Exhaust Hood, 8 to 10 LF	1		2	6878250
E1030	Kitchen	Equipment & Furnishings	poog	Foodservice Equipment, Walk-In, Condenser for Refigerator/Freezer	1		13	6878280
E1030	Kitchen	Equipment & Furnishings	Poog	Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels	2		10	6878284
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Walk-In, Freezer	1		3	6878148
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Range/Oven, 6-Burner	1		2	6878230
E1030	Kitchen	Equipment & Furnishings	Good	Foodservice Equipment, Dishwasher Commercial	1		7	6878179
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Freezer, Chest	1		7	6878189
E1030	Kitchen	Equipment & Furnishings	Good	Foodservice Equipment, Refrigerator, 1-Door Reach-In	2		13	6878266
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Convection Oven, Single	1		2	6878146
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Walk-In, Refrigerator	1		∞	6878286
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Mixer, Freestanding	1		2	6878213
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Steam Kettle	1		7	6878285
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich	1		7	6878157
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Walk-In, Condenser for Refigerator/Freezer	1		3	6878216
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Convection Oven, Double	2		4	6878279
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Walk-In, Condenser for Refigerator/Freezer	1		2	6878161

UF L3 Code	Location	Category	Condition	Asset/Component/Repair	Quantity	Unit	RUL	Q
				Foodservice Equipment. Food Warmer. Tabletop				
E1030	Kitchen	Equipment & Furnishings	Fair	Drawers (Set of 4)	3		2	6878248
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Refrigerator, 2-Door Reach-In	1		2	6878210
E2010	Classrooms and Offices	Equipment & Furnishings	Fair	Casework, Cabinetry Economy	300	4	7	6878273
Special Constr	Special Construction & Demo							
				Ancillary Building, Greenhouse, Truss Frame w/ Plastic				
F1020	Site	Special Construction & Demo	Fair	Walls & Root	300		17	6878185
F1020	Site	Special Construction & Demo	Fair	Ancillary Building, Wood-Framed or CMU, Standard	1,500	SF	7	6878234
F1020	Site	Special Construction & Demo	Fair	Shed/Gazebo/Shade Structure, Wood or Metal-Framed, Standard	175	5	17	6878141
F1020	4:5	Special Construction & Demo	poog	Shed/Gazebo/Shade Structure, Wood or Metal-Framed, Basic/Minimal	7.		22	6878278
Pedestrian Pla	Pedestrian Plazas & Walkways						:	
G2020	Site	Pedestrian Plazas & Walkwavs	Fair	Parking Lots, Aggregate/Stone, Surface Gravel, Replenish	13.800	SF	4	6878274
G2020	Site	Pedestrian Plazas & Walkways	Fair	Parking Lots, Pavement, Asphalt, Mill & Overlay	124,500	SF	3	6878264
G2030	Site	Pedestrian Plazas & Walkways	Fair	Sidewalk, Concrete, Large Areas	8,500	SF	22	6878167
G2030	Site	Pedestrian Plazas & Walkways	Good	Sidewalk, Asphalt	13,500	SF	18	6878222
Athletic, Recre	Athletic, Recreational & Playfield Areas							
G2050	Site	Athletic, Recreational & Playfield Areas	Fair	Play Structure, Multipurpose, Medium	1		7	6878190
G2050	Site	Athletic, Recreational & Playfield Areas	Fair	Sports Apparatus, Soccer, Movable Practice Goal	4		7	6878204
G2050	Site	Athletic, Recreational & Playfield Areas	Fair	Play Structure, Swing Set, 4 Seats	2		7	6878217
G2050	Site	Athletic, Recreational & Playfield Areas	Fair	Play Structure, Multipurpose, Small	1		7	6878214
G2050	Site	Athletic, Recreational & Playfield Areas	Fair	Playfield Surfaces, Chips Wood, 6" Depth	11,200	SF	2	6878202
G2050	Site	Athletic, Recreational & Playfield Areas	Fair	Sports Apparatus, Scoreboard, Electronic Basic	1		12	6878244
G2050	Site	Athletic, Recreational & Playfield Areas	Fair	Sports Apparatus, Basketball, Backboard/Rim/Pole	8		2	6878253
G2050	Site	Athletic, Recreational & Playfield Areas	Fair	Play Structure, Multipurpose, Very Small	1		7	6878160
G2050	Site	Athletic, Recreational & Playfield Areas	Fair	Play Structure, Multipurpose, Large	1		7	6878271
G2050	Site	Athletic, Recreational & Playfield Areas	Fair	Sports Apparatus, Soccer, Movable Practice Goal	2		7	6878198
Sitework								
G2060	Site	Sitework	Fair	Picnic Table, Wood/Composite/Fiberglass	18		13	6878174
G2060	Site	Sitework	Fair	Bike Rack, Fixed 6-10 Bikes	2		13	6878257
G2060	Site	Sitework	Fair	Fences & Gates, Fence, Chain Link 4'	40	-TE	12	6878138
G2060	Site	Sitework	Good	Flagpole, Metal	1		23	6878252
G2060	Site	Sitework	Fair	Fences & Gates, Fence, Chain Link 6'	400	-TE	12	6878177
G2060	Site	Sitework	Good	Park Bench, Precast Concrete	1		18	6878152
G2060	Site	Sitework	Fair	Retaining Wall, Concrete Masonry Unit (CMU)	30	SF	12	6878232
				Pole Light Fixture w/ Lamps, any type 20' High, w/ LED				
G4050	Site	Sitework	Fair	Replacement, Replace/Install	2		2	6878272
			i	Pole Light Fixture w/ Lamps, any type 20' High, w/ LED				
64050	Site	Sitework	Fair	Replacement, Replace/Install	17		13	6878203
0 0 0	a ciacator a ciplin o	72000	i e	Exterior Fixture w/ Lamp, any type, w/ LED	C.		ç	330000
04030	pallallig exterior	SILEWOIR	IBL	neplacement	707		CT	00/0733

Appendix G: Replacement Reserves



Uniformat	Q	Cost Description	(EUI)	EAge RUL	IL Quantity	ntity Unit	it Unit Cost *	Subtotal	2023	2024	2025	2026 2	2027	2028 20	2029 20	2030 2	2031 20	2032 20	2033 2034	2035	H	2036 20	2037 203	2038 2039	2040	2041	2042	2043	Deficiency Repair Estimate
82010	6878194	Exterior Walls, Metal/Insulated Sandwich Panels, Replace	45	28 17	17500	8	\$22.00	\$385,000																	\$385,000				\$385,000
82020	6878142	Window, Aluminum Double-Glazed, 16-25 SF, Replace	98	28 2	201	10 EA	\$950.00	\$190,950			\$190,950							H				-							\$190,950
82050	6878181	Exterior Door, Steel, Standard, Replace	40	28 12	22	2 EA	\$600.00	\$13,200		H			H	H		H	H	H	H	\$1.	\$13,200	H	H						\$13,200
82050	6878241	Overhead/Dock Door, Aluminum, 12'x12' (144 SF), Replace	90	28 2		3 EA	\$4,400.00	\$13,200			\$13,200																		\$13,200
83010	6878150 ^R	Roofing, Asphalt Shingle, 20-Year Standard, Replace	20	0 20	23800	.s	\$3.80	\$90,440																				\$90,440	0 \$90,440
83010	6878183	Roofing, Single Ply Membrane, EPDM, Replace	20	17 3	24600	8	\$11.00	\$270,600				\$270,600																	\$2.70,600
83010	6878254	Roofing, Single-Ply Membrane, TPO/PVC, Replace	20	13 7	19750	35	\$17.00	\$335,750							8	\$335,750													\$335,750
83060	6878263 6	6878.263 Ro of Skylight, per unit, up to 20.5F, Replace	98	28 2		8	\$1,300.00	\$10,400			\$10,400																		\$10,400
C1010	6878224	Interior Wall, Movable Partitions, Fabric 8 to 10' Height, Replace	22	22 3		300 E	\$29.40	\$14,700				\$14,700						H				-							\$14,700
C1030	6878789	Interior Door, Wood, Solid-Core Decorative High-End, Replace	40	28 12	8	9 EA	\$1,500.00	\$103,500												\$100	\$103,500								\$103,500
C1030	6878233	Interior Door, Wood, Solid-Core Decorative High-End w/ Glazing, Replace	40	28 12		55 EA	\$2,100.00	\$165,900												\$16	\$165,900								\$165,900
C1030	6878251	Interior Door, Steel, w/ Extensive Glazing, Replace	40	28 12		31 EA	00'056\$	\$29,450									H	H		\$25	\$29,450								\$ 29,450
C1030	6878162	Interior Door, Steel, Standard, Replace	40	28 12	20	20 EA	00'009\$	\$12,000		H			H	H	\parallel		H	\parallel	H	\$17	\$12,000	H	\parallel	H					\$12,00
C1070	6878242	Suspended Cellings, Acoustical Tile (ACT), Replace	22	22 3		300001	\$3.50	\$350,000			-	\$350,000																	\$350,000
C1090	6878212	687 8212 Lockers, Steel-Baked Enamel, 12" W x 15" D x 72" H, Replace	20	8 12		250 EA	\$500.00	\$125,000										\vdash		\$125	\$125,000								\$125,000
C2010	6878225		10	8 2	2200	220000 SF	\$1.50	\$330,000			\$330,000			\parallel	$\ $		\parallel	\parallel	$\ $	\$330	\$330,000	$\ $	\parallel	Н					\$660,000
C2030	6878159	Flooring, any surface, w/ Paint or Sealant, Prep & Paint	10	9	7500	8	\$1.50	\$11,250			\$11,250									\$17	\$11,250								\$22,500
C2030	-	Flooring, Wood, Strip, Replace	Н	28 2	1500	Н		\$22,500		Ħ	\$22,500		H	H		H	H	H						H					\$2
C2030	6878199	Flooring, Liminate Faux Wood, Neplace Flooring, Vinyl Tile (VCT), Replace	15	10 5	10000	3 000	8800	\$500,000		t		200,500	\$\$	9500,000	1	l	t	t	+		1	+	+	+		210,500	2	\$500,000	00'000'15
C2030	6878175	Flooring, Rubber Tile, Replace	15	8 7	200	35 OC	\$300	\$4,500		H	H	\parallel	H	H	H	\$4,500	H	H	H	Н	H	H	H	Н			Ц		\$4,50
C2030	6878147	Rooring, Carpet, Commercial Standard, Replace	10	8 2	2000	8	\$7.50	\$37,500			\$37,500				_					\$3.	\$37,500								\$ 75,000
D1010	6878275	Passenger Elevator, Hydaulic, 3 Floors, Renovate	98	28 2		1 EA	\$70,000.00	\$70,000			\$70,000																		\$70,000
01010	6878193	Elevator Cab Finishes, Standard, Replace	15	12 3	1	EA.	00'000'6\$	\$9,000		H		\$9,000		H	\parallel		H	\parallel	H	\parallel	\parallel	H	\parallel	\mathbb{H}		\$9,000	8		\$18,00
01010	6878277	Elevator Controls, Automatic, 1 Car, Replace	92	17 3		1 EA						\$5,000																	\$5,000
D2010	6878139	Water Heater, Indirect, Replace	15	7 8	1	EA EA	\$4,800.00	\$4,800		Ħ	H	H	H	H	H	Ĥ	\$4,800	H	H	H	H	H	H	H			Ц		\$4,800
02010	6878219		30	28 2		49 EA	\$1,500.00	\$73,500			\$73,500		-	-	-	1	1	-	\dashv	4	-	+	-	_					\$73,500
D2010	6878276	Sinlý Lavatory, Vanity Top, Stainless Steel, Replace	30	28 2	27	2 EA	\$1,200.00	\$86,400			\$86,400																		\$86,400
02010	6878153	Toilet, Residential Water Closet, Replace	30	28 2	55	5 EA	\$700.00	\$38,500		Ħ	\$38,500	H	H	H	H	H	H	H	H	H	H	H	H	H					\$38,500
02010	6878154	Snk/Lavatory, Wall-Hung, Enameled Steel, Replace	30	28 2		2 EA	\$1,700.00	\$3,400			\$3,400																		\$3,400
02010	6878223	Urinal, Standard, Replace	30	27 3	11	1 EA	\$1,100.00	\$12,100		H		\$12,100	H	H		H	H	H	H		H	H	H	H					\$1
02010	6878229		35	28 7	4	4 EA	00'008\$	\$3,200	Ц	Ħ			H	H	H	\$3,200	H	H	H	H	H	H	\parallel	Н	Ц	Ц	Ц		\$3,20
D2010	6878156	Drinking Fountier, walf-Mounted, single- Level, Replace	15	8 4		3 EA	\$1,200.00	\$3,600	\Box	1			\dashv	\dashv	\dashv	\$3,600	+	\dashv	\dashv	4	\dashv	\dashv	\dashv	4					\$3,600
02020	6878186	Supplemental Components, Grease Trap/Interceptor, Underground, Replace	20	17 3		1 EA	\$12,000.00	\$12,000				\$12,000																	\$12,000
03020	6878171	Boiler, OI, HVAC, Replace	30	28 2	1	FA EA	\$32,600.00	\$32,600		Ħ	\$32,600			H		H	H	H		H	H		H	Н					\$32,600
03020	6878192	Heat Exchanger, Plate & Frame, HVAC, 16 to 25 GPM, Replace	35	28 7		1 EA	\$8,200.00	\$8,200							_	\$8,200	_		_		-								\$8,200
03020	6878239	Wood Pellet Boiler, Hopper and Chute Feeder, Replace	20	13 7		1 EA	\$11,287.00	\$11,287	Ī						٧,	\$11,287													\$11,287
2030	40000	Trees Standard In advances Boardonn	90	. 0.	ľ	ľ	43 400 00	43.400	ſ	l	40.000	l	ŀ	l	l	f	1	1	l		1	ł	1	ł	-	ļ	1		ľ

Deficiency Repair Estimate	008'9\$	\$3,600	\$75,000	\$2,700	\$7,600	\$9,200	\$10,200	\$30,400	\$625,000	\$54,000	\$9,000	\$30,000	\$5,00,000	\$5,500	\$20,000	\$20,000	\$35,000	\$2,400	\$1,400	\$4,000	\$700	\$1,400	\$700	\$1,400	\$1,400	\$133,750	\$4,000	\$86,000	\$16,000	\$20,000	\$40,200	\$15,200	000'06\$	\$7,600	\$60,000
2043																																			
2042																																			
2041																									\$1,400										
2040					\$3,800	\$4,600	\$5,100																												
2039																																			
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2037																	Н																	8	4
2036				8					8																								Ш	\$7,600	
2035				\$2,700					\$625,000																								\$30,00		
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2031																	H						\$700	\$1,400											
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2027	8	8						8				8	8	8	8	8	8 8		8	8	\$					\$133,750		8				8			
2026	008'95	\$3,600						\$30,400				\$30,000	\$500,000	\$5,500	\$20,000	\$20,000	\$35,000		\$1,400	\$4,000								\$86,000				\$15,200			
2025					\$3,800	\$4,600	\$5,100			\$54,000	\$9,000							\$2,400									\$4,000		\$16,000	\$20,000	\$40,200				\$60,000
2024		Ħ															Ħ																		1
2023		Ц							L								Ц		L									Ц					Ц		
t * Subtotal	008'95 00	009'8\$ 00	\$75,000	00 \$2,700	00 \$3,800	00 \$4,600	00 \$5,100	00 \$30,400	\$625,000	00 \$54,000	000'6\$ 00	000'00\$ 00	\$500,000	005,8\$ 00	00 \$20,000	00 \$20,000	00 \$35,000	+	00 \$1,400	00 \$4,000	002\$	00 \$1,400	00/5	00 \$1,400	00 \$1,400	\$133,750		000'98\$ 00	00 \$16,000	00 \$20,000	00 \$40,200	00 \$15,200		009'25 00	000'09\$
Unit Cost *	\$1,700.00	\$1,800.00	\$150.00	\$2,700.00	\$3,800.00	\$4,600.00	\$5,100.00	\$7,600.00	\$5.00	\$9,000.00	\$9,000.00	\$7,500.00	\$4.00	\$5,500.00	\$20,000.00	\$20,000.00	\$35,000.00		\$1,400.00	\$4,000.00	\$700.00	\$1,400.00	\$700.00	\$1,400.00	\$1,400.00	\$1.07	00'00\$\$	\$86,000.00	\$16,000.00	00'000'01\$	00'000'9\$	00'009'4\$	\$90,000.00		\$6,000.00
ity Unit	EA	EA	ñ	EA	ž	ĘĄ	EA	EA	8 8	EA	EA	EA	S SF	EA	EA	EA	EA	T	ĘĀ	2	Z3	EA	EA	EA	EA	8	J	EA	EA	EA	EA	EA	EA	EA	EA
L Quantity	4	2	8	1	1	1	1	*	125000	9	1	47	125000	1	1		1		1	1	1	1	1	1	1	125000	10	1	1	2	9	2	1		10
EAge RUL	17 3	17 3	25	28 12	13 2	13 2	13 2	22 3	28 12	18 2	18 2	17 3	27 3	17 3	17 3	17 3	17 3	18 2	17 3	17 3	16 4	14 6	13 7	12 8	7 18	21 4	18 2	22 3	28 2	28 2	28 2	27 3	28 12	17 13	28 2
Ufespan E.	20	20	92	40	15	15	15	22	40	20	90	20	90	20	20	20	20	H	92	20	90	20	20	20	25	22	20	25	30	30	30	30	H	30	30
		splace	ird (per LF),	bonents,	I/Heat Pump,	t/Heat Pump,	ating Water,	afing Water,	ing, 2-Pipe,	oof-Mounted,	oof-Mounted,	pof-Mounted,	dium Density,	oof-Mounted,	oof-Mounted,	oof-Mounted,	MJ. Replace	ounted, 16"	ounted, 12"	ounted, 28"	HP Motor,	ounted, 12"	. HP Motor,	ounted, 12"	2" Damper,	ting Sprinkler oe	Ommerdal Replace	olace	, Stepdown,	, Stepdown,	, Stepdown,	, Stepdown,	Replace	, steppown,	_
Cost Description	Unit Heater, Hydronic, 13 to 36MBH, Replace	Unit Heater, Bectric, Replace	Radiator, Hydronic, Baseboar Replace	Boiler Supplemental Components, Expansion Tank: Replace	Split System, Conden sing Unit/Heat Pump, Replace	Split System, Condensing Unit/Heat Pump, Replace	Pump, Distribution, HVAC Healing Water, Replace	Pump, Distribution, HVAC Heating Water, Replace	HVAC System, Hydronic Piping, 2-Pipe, Replace	Packaged Unit, RTU, Pad or Roof-Mounted 4 TON, Replace	Packaged Unit, RTU, Pad or Roof-Mounted Replace	Packaged Unit, RTU, Pad or Roof-Mounted 3 TON, Replace	HVAC System, Ductwork, Medium Density, Replace	Packaged Unit, RTU, Pad or Roof-Mounted Reclace	Packaged Unit, RTU, Pad or Roof-Mounted Redace	Packaged Unit, RTU, Pad or Roof-Mounted Reclace	Make-Up Air Unit, MUA or MAU, Replace	Exhaust Fan, Roof or Wall-Mourhed, 16"	Exhaust Fan, Roof or Wall-Mounted, 12" Dammer Beneface	Exhaust Fan, Roof or Wall-Mounted, 28" Damper, Rediace	Exhaust Fan, Propeller, 0.25 HP Motor, Replace	Exhaust Fan, Roof or Wall-Mounted, 12" Damper, Replace	Exhaust Fan, Propeller, 0.25 HP Motor, Replace	Exhaust Fan, Roof or Wall-Mounted, 12' Damper, Replace	Exhaust Fan, Centrifugal, 12" Damper, Replace	Fire Suppression System, Existing Sprinkler Heads, by SF, Replace	Fire Suppression System, Commerdal Kitchen, per LF of Hood, Replace	Generator, Diesel, Replace	econdary Transformer, Dry, Replace	Secondary Transformer, Dry, Stepdown, Replace	Secondary Transformer, Dry, Stepdown, Replace	Secondary Transformer, Dry, Stepdown, Replace	Switchboard, 277/480 V, Replace	econdary iransomier, ury, Replace	D5020 6878237 Distribution Panel, 120/208 V, Replace
QI	6878151	6878287	6878205	687.8269	QS 8218780	Q 1918189	6878218 P.	6878246 Pt	6878140	6878187 Pa	Pa 687 8208	6878170	6878221 HV	6878240 Pa	687 8207 Pa	6878143 Pa	6878268 M		E 6878206	E 1978789	6878231	E 6878149	6878172	E 6878220	6878211	6878788 Fir		6878215	6878168	6878249	5 8818188	8228789			6878237
Uniformat	03020 68	D3020 68	03020 68	03020 68	89 00000	03030 68	89 050EG	03050 68	03050 68	D3050 68	D3050 68	03020 68	D3050 68	D3050 68	89 050EG	03050 68	03050 68	+	03060 68	03060	99 09060	09000	89 09000	03060 68	89 09000	D4010 68		D5010 68	D5020 68	02050	02050	02050	D5020 68	D5020 68	D5020 68

Uniformat	QI		(EUL)	EAge RI	RUL Qua	Quantity Us	Unit Unit C	Unit Cost * Subi	Subtotal 2023	23 2024	\$ 2025	2026		202 203	2028 2029	9 2030		2031 20	2032 203	2033 2034	4 2035		2036 20	2037 20	2038 2039	9 2040	2041	1 2042	2043	Deficiency Re Estimate	Deficiency Repair Estimate
D2030	6878178	Electrical System, Wiring & Switches, Average or Low Density/Complexity, Replace	9	28 1	12 125	125000 S	\$ \$2.50		\$312,500												\$312,500	905								**	\$3 12,500
D5030	6878247	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	13		4 5	EA \$6,200.00		\$24,800							\$25	\$24,800														\$24,800
DS030	6878137	Variable	20	13	-	4	EA \$5,300.00		\$21,200							\$23	\$21,200														\$21,200
D5040	6878243	Interior Lig Density	20	80	12 125	125000 s	35.	\$5.00 \$625	\$625,000												\$625,000	80									\$625,000
09090	6878191		92	17	3 125	125000 s	\$5 \$1.65		\$206,250			\$206	\$206,250																		\$2.06,250
D7030	6878195	S	15	00	7 125	125000 s	SF \$2.00		\$250,000							\$250	\$250,000														\$250,000
070050	6878227	E S	20	13	7 125	125000 s	SF \$3.00	1	\$375,000							\$375	\$375,000														\$3.75,000
E1030	6878250	ŭ	15	13	2	1 5	EA \$4,500.00		\$4,500		2,	\$4,500														\$4,500	8				\$9,000
E1030	6878230		15	13	2	1 2	EA \$6,000.00		000'9\$		\$6,	\$6,000														\$6,000	8				\$12,000
£1030	6878146	Foodservice Equipment, Convection Overs, Single, Replace	01	- 00	2	1 6	00.009,25 A3		009'5\$		\$5,	009'5\$					\vdash			L	*	\$5,600		\vdash	\vdash						\$11,200
E1030	6878213	Foodse	22	23	2	1	EA \$14,00	\$14,000.00 \$14	\$14,000		\$14,000	000							H												\$14,000
E1030	6878161	Foodservice Equipment, Walk-in, 6878161 Condenser for Refigerator/Freezer, Replace	15	13	2	1 5	EA \$6,300.00		\$6,300		\$6,	\$6,300														\$6,300	8				\$12,600
£1030	6878248	Foodservice Equipment, Food Warmer, Tabletop Drawers (Set of 4), Replace	15	13	2	3	EA \$5,700.00		\$17,100		\$17,100	300														\$17,100	8				\$34,200
£1030	6878265	~	15	12	3	1 6	EA \$4,60	\$4,600.00	\$4,600			3.	\$4,600														ž	\$4,600			\$9,200
£1030	6878256		10	_		2 5	EA \$7,000.00		\$14,000			\$14	\$14,000									52	\$14,000								\$28,000
£1030	6878262	Foodsevice Equipment, Icemaker, Freestanding, Replace	15	12		1	EA \$6,700.00		\$6,700			×	\$6,700														8	96,700			\$13,400
E1030	6878148	Foodserv	90	17		1 2	EA \$25,000.00		\$25,000			\$25	\$25,000																		\$25,000
E1030	6878216	Foodservice Equipment, Walk-In, 6878.216 Condenser for Refigerator/Freezer, Replace	15	12		1 6	EA \$6,300.00		\$6,300			8	\$6,300														38	\$6,300			\$12,600
E1030	6878279	ű.	01	9	**	2 E	EA \$9,500.00		\$19,000				\$16	\$ 19,000									\$19	\$19,000							\$38,000
£1030	6878210	Fo adservice Equipment, Refrigerator, 2- Door Reach-In, Replace	15	91	10	1	EA \$4,600.00		\$4,600					2	\$4,600		-							-					\$4,600	8	\$9,200
E1030	6878179		10		7	1 E	EA \$21,50	\$21,500.00 \$21,	\$21,500				Н			\$21	\$21,500		H					H		\$21,500	005				\$43,000
£1030	6878189	F	15	- 00	7	1 6	EA \$1,800.00	_	\$1,800							\$1	\$1,800														\$1,800
E1030	6878285	æ	20	13	7	1 .	EA \$30,00	\$30,000.00 \$30,	\$30,000							\$30	\$30,000														\$30,000
E1030	6878157	Red	15	00	7	1 E	EA \$4,700.00	_	\$4,700				-			27	\$4,700	-		-		-		-	-	4					\$4,700
£1030	6878286	Foodservice Equipment, Walk-In, Refrigerator, Replace	20	12 8	80	1 6	EA \$15,000.00		\$15,000								\$1.	\$15,000													\$15,000
E1030	6878284	Food	15	5 1	10	2 E	EA \$1,700.00	_	\$3,400								\exists	\dashv	ŝ	\$3,400				\exists							\$3,400
£1030	6878281	Foodservice Equipment, Dairy Cooler/Wells, Replace	15	3	12	2 E.	EA \$3,600.00		\$7,200												55	\$7,200									\$7,200
E1030	6878282	ű.	15	3 1	12	1 6	EA \$4,500.00		\$4,500				H	H	H		H	H	H		2,	\$4,500		H	H						\$4,500
E1030	6878280		15	2 1	13	1	EA \$6,300.00		\$6,300													- 00	\$6,300								\$6,300
E1030			15		13	2 5			\$5,400					-				_	_			÷.	\$5,400			_					\$5,400
E2010	0878273	Anollary Building, Wood-Framed or CMU,	R	22		$^{+}$	91/2/00	+	257,500	+		-	+	+	+	ż	0057	+	+	+		+	+	+	+	-		+			\$52,500

RURFAL	I VERITAS PROJECT:	158982 22R000-0	121 370

Appendix H: Depleted Value Report





BARRE CITY ELEM/MIDDLE SCHOOL - Main Building

Depleted Value Index

68.4%

System	System Contribution	System Value
Ancillary Building	\$ 5,600	\$ 10,500
Ancillary Building	\$ 105,000	\$ 150,000
Bike Rack	\$ 1,280	\$ 1,600
Boiler	\$ 27,710	\$ 32,600
Boiler	\$ 5,600	\$ 20,000
Boiler Supplemental Components	\$ 5,664	\$ 7,080
Boiler Supplemental Components	\$ 2,430	\$ 2,700
Casework	\$ 34,125	\$ 52,500
Distribution Panel	\$ 51,000	\$ 60,000
Distribution Panel	\$ 25,440	\$ 42,400
Distribution Panel	\$ 5,100	\$ 6,000
Drinking Fountain	\$ 2,520	\$ 3,600
Electrical System	\$ 218,750	\$ 312,500
Elevator Cab Finishes	\$ 3,150	\$ 9,000
Elevator Controls	\$ 3,111	\$ 5,000
Exhaust Fan	\$ 784	\$ 1,400
Exhaust Fan	\$ 490	\$ 700
Exhaust Fan	\$ 1,680	\$ 2,400
Exhaust Fan	\$ 455	\$ 700
Exhaust Fan	\$ 1,260	\$ 1,400
Exhaust Fan	\$ 1,176	\$ 1,400
Exhaust Fan	\$ 933	\$ 4,000
Exhaust Fan	\$ 1,120	\$ 1,400
Exterior Door	\$ 10,560	\$ 13,200
Exterior Fixture w/ Lamp	\$ 9,600	\$ 12,000
Exterior Walls	\$ 205,333	\$ 385,000
Exterior Walls	\$ 702,667	\$ 1,054,000
Fences & Gates	\$ 672	\$ 720
Fences & Gates	\$ 6,720	\$ 8,400
Fire Alarm System	\$ 75,000	\$ 375,000
Fire Suppression System	\$ 2,800	\$ 4,000
Fire Suppression System	\$ 107,000	\$ 133,750
Flagpole	\$ 500	\$ 2,500
Flooring	\$ 32,500	\$ 37,500
Flooring	\$ 1,500	\$ 11,250
Flooring	\$ 3,500	\$ 10,500
Flooring	\$ 3,825	\$ 4,500

System	Syst	em Contribution		System Value
Flooring	\$	433,333	\$	500,000
Flooring	\$	6,750	\$	22,500
Foodservice Equipment	\$	2,453	\$	4,600
Foodservice Equipment	\$	960	\$	7,200
Foodservice Equipment	\$	11,200	\$	14,000
Foodservice Equipment	\$	4,020	\$	6,700
Foodservice Equipment	\$	4,140	\$	4,500
Foodservice Equipment	\$	2,925	\$	4,500
Foodservice Equipment	\$	3,360	\$	6,300
Foodservice Equipment	\$	2,720	\$	3,400
Foodservice Equipment	\$	15,000	\$	25,000
Foodservice Equipment	\$	5,200	\$	6,000
Foodservice Equipment	\$	18,633	\$	21,500
Foodservice Equipment	\$	1,200	\$	1,800
Foodservice Equipment	\$	4,752	\$	5,400
Foodservice Equipment	\$	4,480	\$	5,600
Foodservice Equipment	\$	13,500	\$	15,000
Foodservice Equipment	\$	9,800	\$	14,000
Foodservice Equipment	\$	25,500	\$	30,000
Foodservice Equipment	\$	3,290	\$	4,700
Foodservice Equipment	\$	4,410	\$	6,300
Foodservice Equipment	\$	13,300	\$	19,000
Foodservice Equipment	\$	4,410	\$	6,300
Foodservice Equipment	\$	6,840	\$	17,100
Foodservice Equipment	\$	4,048	\$	4,600
Generator	\$	34,400	\$	86,000
Heat Exchanger	\$	6,970	\$	8,200
HVAC System	\$	425,000	\$	500,000
HVAC System	\$	583,333	\$	625,000
Intercom/PA System	\$	175,313	\$	206,250
Interior Door	\$	93,150	\$	103,500
Interior Door	\$	149,310	\$	165,900
Interior Door	\$	25,033	\$	29,450
Interior Door	\$	10,200	\$	12,000
Interior Lighting System	\$	531,250	\$	625,000
Interior Wall	\$	4,116	\$	14,700
Lockers	\$	53,571	\$	125,000
Make-Up Air Unit	\$	30.800	\$	35,000
Make-Up Air Unit	\$	44,800	\$	48,000
Overhead/Dock Door	\$	4,620	\$	13,200
Packaged Unit	\$	19,500	\$	30,000
Packaged Unit	\$	35.100	\$	54.000
Packaged Unit	\$	5,850	\$	9,000

Page 1 of 4 Page 2 of 4

System	System Contribution	System Value
Packaged Unit	\$ 3,575	\$ 5,500
Packaged Unit	\$ 13,000	\$ 20,000
Packaged Unit	\$ 6,667	\$ 20,000
Park Bench	\$ 900	\$ 1,000
Parking Lots	\$ 6,762	\$ 19,320
Parking Lots	\$ 383,460	\$ 435,750
Passenger Elevator	\$ 60,667	\$ 70,000
Picnic Table	\$ 9,000	\$ 10,800
Play Structure	\$ 14,000	\$ 20,000
Play Structure	\$ 4,667	\$ 5,000
Play Structure	\$ 6,500	\$ 10,000
Play Structure	\$ -	\$ 6,000
Play Structure	\$ 29,750	\$ 35,000
Playfield Surfaces	\$ 20,907	\$ 22,400
Pole Light Fixture w/ Lamps	\$ 4,760	\$ 8,400
Pole Light Fixture w/ Lamps	\$ 63,467	\$ 68,000
Pump	\$ 27,360	\$ 30,400
Pump	\$ 4,760	\$ 5,100
Radiator	\$ 40,000	\$ 75,000
Retaining Wall	\$ 780	\$ 1,800
Roof Skylight	\$ 2,773	\$ 10,400
Roofing	\$ 188,020	\$ 335,750
Roofing	\$ 25,323	\$ 90,440
Roofing	\$ 216,480	\$ 270,600
Secondary Transformer	\$ 14,933	\$ 16,000
Secondary Transformer	\$ 7,093	\$ 7,600
Secondary Transformer	\$ 2,000	\$ 20,000
Secondary Transformer	\$ 14,187	\$ 15,200
Secondary Transformer	\$ 34,840	\$ 40,200
Security/Surveillance System	\$ 216,667	\$ 250,000
Shed/Gazebo/Shade Structure	\$ 4,667	\$ 8,750
Shed/Gazebo/Shade Structure	\$ 975	\$ 1,875
Sidewalk	\$ 61,200	\$ 76,500
Sidewalk	\$ 39,600	\$ 74,250
Sink/Lavatory	\$ 2.720	\$ 3,200
Sink/Lavatory	\$ 64,680	\$ 73,500
Sink/Lavatory	\$ 60,480	\$ 86,400
Sink/Lavatory	\$ 1,960	\$ 2,100
Sink/Lavatory	\$ 2,890	\$ 3,400
Split System	\$ 3,230	\$ 3,800
Split System	\$ 4,140	\$ 4,600
Sports Apparatus	\$ 2,520	\$ 2,800
Sports Apparatus	\$ 1,950	\$ 3,000

System	Sy	stem Contribution		System Value
Sports Apparatus	\$	49,400	\$	76,000
Sports Apparatus	\$	2,800	\$	3,500
Supplemental Components	\$	5,600	\$	12,000
Suspended Ceilings	\$	326,667	\$	350,000
Switchboard	\$	58,500	\$	90,000
Toilet	\$	-	\$	38,500
Unit Heater	\$	-	\$	6,800
Unit Heater	\$	-	\$	3,600
Unit Heater	\$	-	\$	2,100
Urinal	\$	-	\$	12,100
Variable Frequency Drive	\$	-	\$	24,800
Variable Frequency Drive	\$	-	\$	21,200
Wall Finishes	\$	-	\$	330,000
Water Heater	\$	-	\$	4,800
Window	\$	-	\$	190,950
Wood Pellet Boiler	\$	-	\$	11,287
Totals	· ¢	6 622 271	¢	9 674 972

Totals \$ 6,622,371 \$ 9,674,872

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FACILITY CONDITION ASSESSMENT



prepared for

Vermont Agency of Education_FCA Phase Two 1 National Life Drive, Davis 5 Montpelier, VT 05620-2501



PREPARED BY:

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BV PROJECT #: 158982.22R000-022.379

DATE OF REPORT: September 8, 2023

ON SITE DATE: August 15, 2023

BARRE TOWN ELEMENTARY (& MIDDLE) SCHOOL - Main Building (PS020-) 70 Websterville Road Barre VT, 05641

Bureau Veritas

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1. Executive Summary

Property Overview and Assessment Details

General Information	
Property Type	School
School ID Number	PS020-
Main Address	70 Websterville Road, Barre VT, 05641
E911 Address Verification	Zip 05641-9029, Standardized, Fixed abbreviations, Matched street and city and state, Confirmed entire address
GPS Location (Verified E911)	Main Building 44.16926, -72.48698
Site Developed	1967 Renovated: 1996
Site Area	20 acres (estimated)
Parking Spaces	211 total spaces all in open lots; 14 of which are accessible. (9 spaces displaying international symbol of access)
Building Square Footage	155,000 (Verified)
Number of Stories	2 above grade
Supervisory Union/ District	Barre Unified Union SD
Date(s) of Visit	August 15, 2023

Note: (Verified) in Square Foot signifies that the square footage of the facility has been verified to be accurate.

Significant/Systemic Findings and Deficiencies

Historical Summary

Barre Town Elementary & Middle school was constructed in 1967 & is one of two PreK-8 schools serving the Barre Unified Union School District. The school was originally constructed as a two-story schoolhouse with an open floor plan. Since its opening the school has undergone one major renovation & two building additions (1971 & 1996) which added individual classrooms, gymnasiums, & a cafeteria/kitchen. Barre Town Elementary & Middle School continues to operate as a Pre-K - 8 school, currently enrolling over 800 students.

Architectural

The building envelope of the school appears to be in an overall good condition. Roofing membranes are replaced periodically & no associated leaks have been reported. Vinyl windows do not appear to be compromised. A significant portion of the school's interior flooring is carpeting, roughly one third of which requires replacement. The ACT ceiling grid also appears to be showing signs of aging in select areas and should be monitored for replacement by facilities management over the next decade. The kitchen interiors need renovation as its tile flooring and ceiling grid have reached the end of their useful lifecycle as indicated by wear and age. Four of the eight restrooms have been recently renovated. All other building interiors appeared to be in good condition and are regularly maintained.

Mechanical, Electrical, Plumbing and Fire (MEPF)

Barre Town Elementary School was originally constructed with an all-electric heating, cooling, and hot water system. Due to rising utility costs in the 1990's, Barre chose to fully replace its electrical system in favor of a wood chip boiler powered hydronic system. At the time this was an innovative technology in the United States. In 1996 one primary wood chip boiler was installed along with two secondary fuel oil boilers which have since been converted to utilize wood chips as well. The two secondary cast iron boilers are used to provide heated domestic water as they hydronically power three water heaters: heating the domestic water using a heat exchange plate. A pairing of rooftop units and air handlers are used as a cooling system which was last updated during 1996. As the efficiency of both heating and cooling systems decreases over time it is recommended that this system be upgraded with new components (boilers, air handlers, RTUs) that take advantage of the technological advances of the past three decades. Most Barres electrical system dates to the late 60's and early 70's. As such a complete update of the electrical system is recommended for the entire school building. Barre Town Elementary & Middle School has a sprinkler system that covers the entire facility. The fire alarm and suppression system appear to be up to date and is annually inspected.

Site

Barre Town Elementary Schools site is in an overall good condition. The site consists of parking lots, lawns, fields, playgrounds, & asphalt play surfaces. Adjacent to the site are & separated by fencing are residential areas & the Barre Town Recreation Park. All swing-sets on site are due for replacements as many of the chains have become rusted and others have broken.

Recommended Additional Studies

Only minor issues have been identified at this property.





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Facility Condition Index (FCI)

One of the major goals of the FCA is to calculate each building's Facility Condition Index (FCI), which provides a theoretical objective indication of a building's overall condition. By definition, the FCI is defined as the ratio of the cost of current needs divided by current replacement value (CRV) of the facility. The chart below presents the industry standard ranges and cut-off points.

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FCI Ranges and	FCI Ranges and Descriptions						
0 – 5% In new or well-maintained condition, with little or no visual evidence of wear or deficiencies.							
5 – 10% Subjected to wear but is still in a serviceable and functioning condition.							
10 – 30% Subjected to hard or long-term wear. Nearing the end of its useful or serviceable life.							
30% and above	Has reached the end of its useful or serviceable life. Renewal is now necessary.						

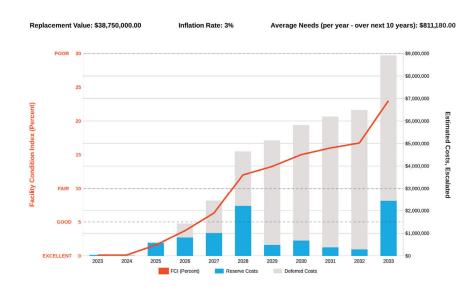
The deficiencies and lifecycle needs identified in this assessment provide the basis for a portfolio-wide capital improvement funding strategy. In addition to the current FCI, extended FCI's have been developed to provide owners the intelligence needed to plan and budget for the "keep-up costs" for their facilities. As such the 3-year, 5-year, and 10-year FCI's are calculated by dividing the anticipated needs of those respective time periods by current replacement value. As a final point, the FCI's ultimately provide more value when used to relatively compare facilities across a portfolio instead of being over-analyzed and scrutinized as stand-alone values. The table below summarizes the individual findings for this FCA:

FCI Analysis				
Replacement Value	Total SF		Cost/SF	
\$38,750,000	155,000		\$250	
Current FCI		\$47,700		0.1%
3-Year		\$1,436,200		3.7%
5-Year		\$4,656,500		12.0%
10-Year		\$8,923,000		23.0%

Facility Level FCI:

The orange line in the graph below forecasts what would happen to the FCI (left Y axis) over time, assuming zero capital expenditures. The capital expenditures allocated for each year (blue bars) are associated with the dollar amounts along the right Y axis. If the school expends the average amount per year to maintain and replace systems, they will not incur the capital debt represented by the gray bars.

Needs by Year with Unaddressed FCI Over Time





The above graph is a visual representation of the information contained in the table below.

Year	Reserve	Reserve Escalation	Recurrence	Recurrence Escalation	Total Escalation	Deferred	FCI
2023	47,670	0	0	0	0	47,670	0
2024	5,000	150	0	0	150	52,820	0
2025	538,400	32,789	0	0	32,789	624,009	0.02
2026	743,200	68,915	0	0	68,915	1,436,124	0.04
2027	899,322	112,873	0	0	112,873	2,448,319	0.06
2028	1,902,730	303,056	2,070	330	303,386	4,654,105	0.12
2029	388,250	75,341	20,000	3,881	79,222	5,117,696	0.13
2030	551,160	126,697	0	0	126,697	5,795,553	0.15
2031	301,800	80,511	0	0	80,511	6,177,864	0.16
2032	170,900	52,086	50,600	15,422	67,508	6,400,850	0.17
2033	1,796,504	617,847	11,570	3,979	621,826	8,815,201	0.23
2034	32,590	12,522	0	0	12,522	8,860,313	0.23
2035	39,250	16,711	200,000	85,152	101,863	8,916,274	0.23
2036	53,300	24,973	2,200	1,031	26,004	8,994,547	0.23
2037	1,757,600	900,928	40,100	20,555	921,483	11,653,075	0.3
2038	355,200	198,190	199,020	111,047	309,237	12,206,465	0.32
2039	253,000	152,991	348,750	210,891	363,882	12,612,456	0.33
2040	1,334,500	871,225	55,200	36,037	907,262	14,818,181	0.38
2041	84,600	59,426	338,300	237,633	297,059	14,962,207	0.39
2042	0	0	42,100	31,723	31,723	14,962,207	0.39

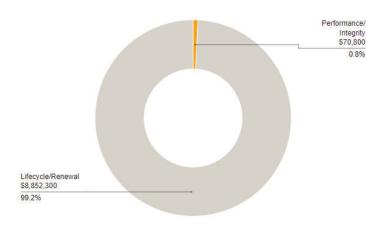
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Plan Types

Each line item in the cost database is assigned a Plan Type, which is the primary reason or rationale for the recommended replacement, repair, or other corrective action. This is the "why" part of the equation. A cost or line item may commonly have more than one applicable Plan Type; however, only one Plan Type will be assigned based on the "best" fit, typically the one with the greatest significance. Each of the Key Findings identified below are assigned a Plan Type.

Plan Type Descriptions					
Safety	•	An observed or reported unsafe condition that if left unaddressed could result in injury; a system or component that presents potential liability risk.			
Performance/Integrity	•	Component or system has failed, is almost failing, performs unreliably, does not perform as intended, and/or poses risk to overall system stability.			
Accessibility	•	Does not meet ADA, UFAS, Safety and/or other handicap accessibility requirements.			
Environmental	•	Improvements to air or water quality, including removal of hazardous materials from the building or site.			
Retrofit/Adaptation	-	Components, systems, or spaces recommended for upgrades in in order to meet current standards, facility usage, or client/occupant needs.			
Lifecycle/Renewal	-	Any component or system that is not currently deficient or problematic but for which future replacement or repair is anticipated and budgeted.			

Plan Type Distribution (by Cost)



10-YEAR TOTAL: \$8,923,100



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Immediate Needs

ID	Location Description	UF Code	Description	Condition	Plan Type	Cost
6893346	Stairwells	C2030	Flooring, Vinyl Tile (VCT), w/ Asbestos Abatement, Replace	Poor	Performance/Integrity	\$8,000
6893395	Tech Shop	D3030	Unit Ventilator, approx./nominal 2 Ton, 300 to 750 CFM, Replace	Failed	Performance/Integrity	\$7,400
6893411	Kitchen	E1030	Foodservice Equipment, Refrigerator, Undercounter 2-Door, Replace	Failed	Performance/Integrity	\$1,700
6893337	Kitchen	E1030	Foodservice Equipment, Convection Oven, Double, Replace	Poor	Performance/Integrity	\$9,500
6902024	Site	G2050	Sports Apparatus, Basketball, Backboard/Rim/Pole, Replace	Failed	Performance/Integrity	\$19,000
6902103	Site	G2050	Athletic Surfaces & Courts, Basketball/General, Asphalt Pavement, Seal & Stripe	Failed	Performance/Integrity	\$2,100
					Total	\$47,700

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Key Findings



Athletic Surfaces & Courts in Failed condition.

Basketball/General, Asphalt Pavement BARRE TOWN ELEMENTARY & MIDDLE SCHOOL Site

Uniformat Code: G2050

Recommendation: Seal & Stripe in 2023

Priority Score: 82.9

Plan Type: Performance/Integrity

Cost Estimate: \$2,100

\$\$\$\$

Currently no striping on surface - AssetCALC ID: 6902103



Sports Apparatus in Failed condition.

Basketball, Backboard/Rim/Pole BARRE TOWN ELEMENTARY & MIDDLE SCHOOL Site

Uniformat Code: G2050

Recommendation: Replace in 2023

Priority Score: 82.9

Plan Type: Performance/Integrity

Cost Estimate: \$19,000

\$\$\$\$

Rim & amp; netting missing. Repair/replace - AssetCALC ID: 6902024



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Play Structure in Poor condition.

Swing Set, 4 Seats BARRE TOWN ELEMENTARY & MIDDLE SCHOOL Site

Uniformat Code: G2050 Recommendation: Replace in 2024 Priority Score: 82.8 Plan Type: Performance/Integrity Cost Estimate: \$5,000

\$\$\$\$

Rusting chains, missing seats - AssetCALC ID: 6893358



Unit Ventilator in Failed condition.

Approx/Nominal 2 Ton, 300 to 750 CFM BARRE TOWN ELEMENTARY & MIDDLE SCHOOL Tech Shop

Uniformat Code: D3030 Recommendation: **Replace in 2023** Priority Score: **81.9** Plan Type: Performance/Integrity Cost Estimate: \$7,400

\$\$\$\$

Item is no longer functioning. Air grilles have been sealed by maintenance. - AssetCALC ID: 6893395





Foodservice Equipment in Failed condition.

Refrigerator, Undercounter 2-Door

BARRE TOWN ELEMENTARY & MIDDLE SCHOOL Kitchen

Uniformat Code: E1030

Recommendation: Replace in 2023 Priority Score: 81.9 Plan Type: Performance/Integrity Cost Estimate: \$1,700

\$\$\$\$

No longer works, does not cool, condenser broken. Used as storage. - AssetCALC ID: 6893411



Flooring in Poor condition.

Vinyl Tile (VCT), w/ Asbestos Abatement BARRE TOWN ELEMENTARY & MIDDLE SCHOOL Stairwells

Uniformat Code: C2030

Recommendation: Replace in 2023

Priority Score: 81.9

Plan Type: Performance/Integrity

Cost Estimate: \$8,000

\$\$\$\$

9x9 tile Likely original to building. Evaluate for asbestos. - ${\tt AssetCALC\ ID:\ 6893346}$

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Foodservice Equipment in Poor condition.

Convection Oven, Double BARRE TOWN ELEMENTARY & MIDDLE SCHOOL Kitchen

Uniformat Code: E1030

Recommendation: Replace in 2023 Priority Score: 81.9
Plan Type: Performance/Integrity

Cost Estimate: \$9,500

\$\$\$\$

1 of 2 ovens is out of order, service/repair Zephair - AssetCALC ID: 6893337



2. Building and Site Information





System Summary		
System	Description	Condition
Structure	Steel frame with concrete-topped metal decks over concrete pad column footings. Metal roof decking supported by metal joists.	Fair
Facade	Primary Wall Finish: Stone veneer Secondary Wall Finish: Brick Windows: Vinyl	Fair
Roof	Primary: Flat construction with single-ply TPO/PVC membrane Secondary: Flat construction with single-ply EPDM membrane	Good
Interiors	Walls: Painted gypsum board, painted CMU, Ceramic tile Floors: Carpet, VCT, ceramic tile, sealed concrete Ceilings: ACT	Fair
Elevators	Passenger: 1 hydraulic car serving all 2 floors	Fair
Plumbing	Distribution: Copper supply and PCV & cast-iron waste & venting Hot Water: Wood chip domestic boilers with storage tanks Fixtures: Toilets, urinals, and sinks in all restrooms	Good
HVAC	Central System: Boilers, RTUs, air handlers feeding VAV, fan coil, hydronic baseboard radiators, and cabinet terminal units. Non-Central System: Furnaces with split-system condensing units.	Fair
Safety and Security	Cameras, card readers, perimeter intrusion detection, security windows and doors, fencing, lighting, traffic gates. Multiple points of auto locking doors, main entry monitored, auto locking doors, internal locking on classroom doors, complete intercom system	Fair
Fire Suppression	Wet-pipe sprinkler system and fire extinguishers, and kitchen hood system	Fair



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Source & Distribution: Main panel with copper wiring Fed from on-site Electrical Transformer with copper wiring Fair Interior Lighting: LED, linear fluorescent, CFL Emergency Power: Diesel generator with automatic transfer switch and UPS Alarm panel with smoke detectors, alarms, strobes, pull stations, back-up Fire Alarm Good emergency lights, and exit signs. Commercial kitchen equipment Equipment/Special Fair Asphalt is lost with adjacent concrete sidewalks, curbs, ramps, and stairs. Fair Site Pavement Property entrance signage. Fair Site Development chain link fencing. Playgrounds and sports fields and courts with fencing Limited park benches, picnic tables, trash receptacles Significant landscaping features including lawns, trees, and planters. Good Landscaping & Irrigation not present Topography Low to moderate site slopes throughout along southeast boundary Municipal water and sewer Utilities Good Local utility-provided electric & wood chips Pole-mounted: LED Fair Site Lighting Building-mounted: None Maintenance garage **Ancillary Structures** Good Only minor issues have been identified at this property Accessibility Antiquated HVAC components and infrastructure, aged electrical Key Issues and Findings infrastructure.

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3. Supplemental Evaluations

Square Foot Verification

We have reviewed the square footage of 155,000 square feet and it is in the range of square foot calculations as reported by the school district. This confirmation of the square footage of the facility is based on the exterior wall dimensions and number of stories measured from Google Earth and other publicly available internet searches. This measurement may not reflect the actual heated square footage but provides a general size of the heated square feet of the overall building.

PCB Air Indoor Testing

At the time of the onsite evaluation of this facility PCB air testing has not been conducted. Further ongoing information can be found on the Agency of Natural Resources PCB in Schools website Agency of Natural Resources PCB in Schools.

School Educational Capacity and Programming Space

As part of the FCA report, school administrative staff were asked to conduct a self-assessment of whether their school building meets their space, operational needs and if they have sufficient building capacity and appropriate spaces to deliver educational programming. The school responses to the survey are reported in Appendix D. The respondents indicated that the following areas were inadequate to meet current needs:

A space needs self-assessment was conducted by the school administrative staff which identified space constraints in the following areas:

- Adequate number of classrooms.
- Adequate overall building space.
- Confidential space to maintain FERPA, HIPPA or IEP requirements.
- Administrative offices and/or office space for staff.
- Cafeteria, kitchen and/or gymnasium space.





The Depleted Value Facility Condition Index (FCI) is an estimate of a building's overall amount of consumed system life. The Depleted Value FCI ratings scale indicates the estimated condition of the system. Generally, the higher the Depleted Value FCI, the greater the need to repair or replace a system. Note that the FCI can also be calculated for system groups, building types and other aggregations. The estimated percentage of collective system life left in a building, also referred to as Remaining Useful Life (RUL). The higher the RUL, the newer the system. The sum of Depleted Value FCI and RUL will equal 100%.

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Depleted Value Index Index Value 58.2%

System Expenditur	e Forecast					
System	Immediate	Short Term (1-2 yr)	Near Term (3-5 yr)	Med Term (6-10 yr)	Long Term (11-20 yr)	TOTAL
Structure	-	-	-	\$29,851	-	\$29,851
Facade	-	-	\$44,618	\$7,164	\$185,703	\$237,485
Roofing	-	-	\$19,475	-	\$2,192,017	\$2,211,492
Interiors	\$8,000	\$190,962	\$255,080	\$2,022,701	\$1,707,996	\$4,184,739
Conveying	-	-	\$69,223	\$12,095	-	\$81,318
Plumbing	-	-	\$39,854	\$19,801	\$2,738,971	\$2,798,626
HVAC	\$7,400	\$350,940	\$1,003,365	\$1,172,736	\$983,373	\$3,517,814
Fire Protection	-	-	\$186,665	-	-	\$186,665
Electrical	-	\$29,280	\$1,777,013	-	-	\$1,806,293
Fire Alarm & Electronic Systems	-	-	\$539,062	\$18,448	-	\$557,510
Equipment & Furnishings	\$11,200	-	\$28,190	\$743,170	\$338,778	\$1,121,338
Site Development	\$21,070	\$5,150	\$35,476	\$134,381	\$153,239	\$349,316
Site Utilities	-	-	-	\$32,253	\$7,048	\$39,301
Site Pavement	-	-	\$34,440	\$73,927	\$481,862	\$590,229
TOTALS	\$47,670	\$576,332	\$4,032,461	\$4,266,527	\$8,788,987	\$17,711,977

4. Property Space Use and Observed Areas

Areas Observed

The interior spaces were observed to gain a clear understanding of the property's overall condition. Other areas accessed included the site within the property boundaries, the exterior of the property and the roofs.

Key Spaces Not Observed

All key areas of the property were accessible and observed.





5. ADA Accessibility

Generally, Title II of the Americans with Disabilities Act (ADA) prohibits discrimination by entities to access and use of "areas of public accommodations" and "public facilities" on the basis of disability. Regardless of their age, these areas and facilities must be maintained and operated to comply with the Americans with Disabilities Act Accessibility Guidelines (ADAAG)

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A public entity (i.e., city governments) shall operate each service, program, or activity so that the service, program, or activity, when viewed in its entirety, is readily accessible to and usable by individuals with disabilities.

- Necessarily requires a public entity to make each of its existing facilities accessible to and usable by individuals with disabilities.
- Require a public entity to take any action that would threaten or destroy the historic significance of an historic property; or
- 3. Require a public entity to take any action that it can demonstrate would result in a fundamental alteration in the nature of a service, program, or activity or in undue financial and administrative burdens. In those circumstances where personnel of the public entity believe that the proposed action would fundamentally alter the service, program, or activity or would result in undue financial and administrative burdens, a public entity has the burden of proving that compliance with 35.150(a) of this part would result in such alteration or burdens. The decision that compliance would result in such alteration or burdens must be made by the head of a public entity or his or her designee after considering all resources available for use in the funding and operation of the service, program, or activity, and must be accompanied by a written statement of the reasons for reaching that conclusion. If an action would result in such an alteration or such burdens, a public entity shall take any other action that would not result in such an alteration or such burdens but would nevertheless ensure that individuals with disabilities receive the benefits or services provided by the public entity.

Removal of barriers to accessibility should be addressed from a liability standpoint in order to comply with federal law, but the barriers may or may not be building code violations. The Americans with Disabilities Act Accessibility Guidelines are part of the ADA federal civil rights law pertaining to the disabled and are not a construction code. State and local jurisdictions have adopted the ADA Guidelines or have adopted other standards for accessibility as part of their construction codes.

During the FCA, Bureau Veritas performed a limited high-level accessibility review of the facility non-specific to any local regulations or codes. The scope of the visual observation was limited to the same areas observed while performing the FCA and the categories set forth in the appendix. It is understood by the Client that the limited observations described herein do not comprise a full ADA Compliance Survey, and that such a survey is beyond the scope of this particular assessment. A full measured ADA survey would be required to identify any and all specific potential accessibility issues. Additional clarifications of this limited survey:

- This survey was visual in nature and actual measurements were not taken to verify compliance.
- Only a representative sample of areas was observed.
- Two overview photos were taken for each subsection regardless of perceived compliance or non-compliance.
- Itemized costs for individual non-compliant items are not included in the dataset.
- For any "none" boxes checked or reference to "no issues" identified, that alone does not quarantee full compliance.

The facility was originally constructed in 1956. The facility was renovated in 1994 and has widespread accessibility. No information about complaints or pending litigation associated with potential accessibility issues was provided during the interview process.

A detailed follow-up accessibility study is included as a recommendation based on the potential that specific ADA violations, not in this scope of services, may exist. Reference the appendix for specific data, photos, and tables or checklists associated with this limited accessibility survey.



6. Purpose and Scope

Purpose

Bureau Veritas was retained by the client to render an opinion as to the Property's current general physical condition on the day of the site visit.

Based on the observations, interviews and document review outlined below, this report identifies significant deferred maintenance issues, existing deficiencies, and material code violations of record, which affect the Property's use. Opinions are rendered as to its structural integrity, building system condition and the Property's overall condition. The report also notes building systems or components that have realized or exceeded their typical expected useful lives. The physical condition of building systems and related components are typically defined as being in one of five condition ratings. For the purposes of this report, the following definitions are used:

Condition Ratings	
Excellent	New or very close to new; component or system typically has been installed within the past year, sound and performing its function. Eventual repair or replacement will be required when the component or system either reaches the end of its useful life or fails in service.
Good	Satisfactory as-is. Component or system is sound and performing its function, typically within the first third of its lifecycle. However, it may show minor signs of normal wear and tear. Repair or replacement will be required when the component or system either reaches the end of its useful life or fails in service.
Fair	Showing signs of wear and use but still satisfactory as-is, typically near the median of its estimated useful life. Component or system is performing adequately at this time but may exhibit some signs of wear, deferred maintenance, or evidence of previous repairs. Repair or replacement will be required due to the component or system's condition and/or its estimated remaining useful life.
Poor	Component or system is significantly aged, flawed, functioning intermittently or unreliably; displays obvious signs of deferred maintenance; shows evidence of previous repair or workmanship not in compliance with commonly accepted standards; has become obsolete; or exhibits an inherent deficiency. The present condition could contribute to or cause the deterioration of contiguous elements or systems. Either full component replacement is needed, or repairs are required to restore to good condition, prevent premature failure, and/or prolong useful life.
Failed	Component or system has ceased functioning or performing as intended. Replacement, repair, or other significant corrective action is recommended or required.
Not Applicable	Assigning a condition does not apply or make logical sense, most commonly due to the item in question not being present.



Scope

The standard scope of the Facility Condition Assessment includes the following:

Visit the Property to evaluate the general condition of the building and site improvements, review available construction
documents to familiarize ourselves with, and be able to comment on, the in-place construction systems, life safety,
mechanical, electrical, and plumbing systems, and the general-built environment.

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- Identify those components that are exhibiting deferred maintenance issues and provide cost estimates for Immediate Costs and Replacement Reserves based on observed conditions, maintenance history and industry standard useful life estimates. This will include the review of documented capital improvements completed within the last five-year period and work currently contracted for, if applicable.
- Provide a full description of the Property with descriptions of in-place systems and commentary on observed conditions.
- Provide a high-level categorical general statement regarding the subject Property's compliance to Title III of the Americans with Disabilities Act. This will not constitute a full ADA survey but will help identify exposure to issues and the need for further review
- Obtain background and historical information about the facility from a building engineer, property manager, maintenance staff, or other knowledgeable source. The preferred methodology is to have the client representative or building occupant complete a Pre-Survey Questionnaire (PSQ) in advance of the site visit. Common alternatives include a verbal interview just prior to or during the walk-through portion of the assessment.
- Review maintenance records and procedures with the in-place maintenance personnel.
- Observe a representative sample of the interior spaces/units, including vacant spaces/units, to gain a clear understanding of the property's overall condition. Other areas to be observed include the exterior of the property, the roofs, interior common areas, and the significant mechanical, electrical and elevator equipment rooms.
- Provide recommendations for additional studies, if required, with related budgetary information.
- Provide an Executive Summary at the beginning of this report, which highlights key findings and includes a Facility Condition Index as a basis for comparing the relative conditions of the buildings within the portfolio.

7. Opinions of Probable Costs

Cost estimates are attached throughout this report, with the Replacement Reserves in the appendix. These estimates are based on Invoice or Bid Document/s provided either by the Owner/facility and construction costs developed by construction resources such as R.S. Means, CBRE Whitestone, and Marshall & Swift, Bureau Veritas's experience with past costs for similar properties, city cost indexes, and assumptions regarding future economic conditions.

Opinions of probable costs should only be construed as preliminary, order of magnitude budgets. Actual costs most probably will vary from the consultant's opinions of probable costs depending on such matters as type and design of suggested remedy, quality of materials and installation, manufacturer and type of equipment or system selected, field conditions, whether a physical deficiency is repaired or replaced in whole, phasing or bundling of the work (if applicable), quality of contractor, quality of project management exercised, market conditions, use of subcontractors, and whether competitive pricing is solicited, etc. Certain opinions of probable costs cannot be developed within the scope of this guide without further study. Opinions of probable cost for further study should be included in the FCA.

Methodology

Based upon site observations, research, and judgment, along with referencing Expected Useful Life (EUL) tables from various industry sources, Bureau Veritas opines as to when a system or component will most probably necessitate replacement. Accurate historical replacement records, if provided, are typically the best source of information. Exposure to the elements, initial quality and installation, extent of use, the quality and amount of preventive maintenance exercised, etc., are all factors that impact the effective age of a system or component. As a result, a system or component may have an effective age that is greater or less than its actual chronological age. The Remaining Useful Life (RUL) of a component or system equals the EUL less its effective age, whether explicitly or implicitly stated. Projections of Remaining Useful Life (RUL) are based primarily on age and condition with the presumption of continued use and maintenance of the Property like the observed and reported past use and maintenance practices, in conjunction with the professional judgment of Bureau Veritas's assessors. Significant changes in occupants and/or usage may affect the service life of some systems or components.

Where quantities could not be or were not derived from an actual construction document take-off or facility walk-through, and/or where systemic costs are more applicable or provide more intrinsic value, budgetary square foot and gross square foot costs are used. Estimated costs are based on professional judgment and the probable or actual extent of the observed defect, inclusive of the cost to design, procure, construct, and manage the corrections.

Definitions

Immediate Needs

Immediate Needs are line items that require immediate action as a result of: (1) material existing or potential unsafe conditions, (2) failed or imminent failure of mission critical building systems or components, or (3) conditions that, if not addressed, have the potential to result in, or contribute to, critical element or system failure within one year or will most probably result in a significant escalation of its remedial cost.

For database and reporting purposes the line items with RUL=0, and commonly associated with *Safety* or *Performance/Integrity* Plan Types, are considered Immediate Needs.



20

Replacement Reserves

Cost line items traditionally called Replacement Reserves (equivalently referred to as Lifecycle/Renewals) are for recurring probable renewals or expenditures, which are not classified as operation or maintenance expenses. The replacement reserves should be budgeted for in advance on an annual basis. Replacement Reserves are reasonably predictable both in terms of frequency and cost. However, Replacement Reserves may also include components or systems that have an indeterminable life but, nonetheless, have a potential for failure within an estimated time period.

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Replacement Reserves generally exclude systems or components that are estimated to expire after the reserve term and are not considered material to the structural and mechanical integrity of the subject property. Furthermore, systems and components that are not deemed to have a material effect on the use of the Property are also excluded. Costs that are caused by acts of God, accidents, or other occurrences that are typically covered by insurance, rather than reserved for, are also excluded.

Replacement costs are solicited from ownership/property management, Bureau Veritas's discussions with service companies, manufacturers' representatives, and previous experience in preparing such schedules for other similar facilities. Costs for work performed by the ownership's or property management's maintenance staff are also considered.

Bureau Veritas's reserve methodology involves identification and quantification of those systems or components requiring capital reserve funds within the assessment period. The assessment period is defined as the effective age plus the reserve term. Additional information concerning systems or component's respective replacement costs (in today's dollars), typical expected useful lives, and remaining useful lives were estimated so that a funding schedule could be prepared. The Replacement Reserves Schedule presupposes that all required remedial work has been performed or that monies for remediation have been budgeted for items defined as Immediate Needs.

For the purposes of 'bucketizing' the System Expenditure Forecasts in this report, the Replacement Reserves have been subdivided and grouped as follows: Short Term (years 1-3), Near Term (years 4-5), Medium Term (years 6-10), and Long Term (years 11-20).

Key Findings

In an effort to highlight the most significant cost items and not be overwhelmed by the Replacement Reserves report in its totality, a subsection of Key Findings is included within the Executive Summary section of this report. Key Findings typically include repairs or replacements of deficient items within the first five-year window, as well as the most significant high-dollar line items that fall anywhere within the ten-year term. Note that while there is some subjectivity associated with identifying the Key Findings, the Immediate Needs are always included as a subset.

Exceedingly Aged

A common scenario encountered during the assessment process, and a frequent source of debate, occurs when classifying and describing "very old" systems or components that are still functioning adequately and do not appear nor were reported to be in any way deficient. To help provide some additional intelligence on these items, such components will be tagged in the database as Exceedingly Aged. This designation will be reserved for mechanical or electrical systems or components that have aged well beyond their industry standard lifecycles, typically at least 15 years beyond and/or twice their Estimated Useful Life (EUL). In tandem with this designation, these items will be assigned a Remaining Useful Life (RUL) not less than two years but not greater than 1/3 of their standard EUL. As such the recommended replacement time for these components will reside outside the typical Short-Term window but will not be pushed 'irresponsibly' (too far) into the future.

8. STEM/STEAM Assessment

STEM and STEAM education is an integrated curriculum that is driven by exploratory project-based learning and student-centered development of ideas and solutions. BV has evaluated the facility for the existence of spaces and systems to provide STEM/STEAM education based on input from the point of contact for the school. The below table identifies the required standards and to what degree the requirements have been met for the facility.

	STEM/STEAM Evaluations				
,	Property Name	STEM/STEAM Suitability Score	Project Number	School Type	Square Footage
	Barre Town Elementary & Middle School - Main Building	79%	158982.22R000-022.379	High	155,000

Suitability Classification	Scale
Compares Poorly	Score 0 - 25
Compares Marginally	Score 25-50
Compares Fairly	Score 50-75
Compares Well	Score 75 - 100

Score Value	Score Impact
1- Meets	100%
2- Partial	50%
3- Missing	0%

Details of the STEM/STEAM evaluation are included in the appendix of this report. Reference this appendix for specific data associated with this limited survey.





9. Energy Audit

The purpose of this Energy Audit is to provide Barre Town Elementary & Middle School with a baseline of energy usage, the relative energy efficiency of the facility, and specific recommendations for Energy Conservation Measures. Information obtained from these analyses may be used to support a future application to an Energy Conservation Program, Federal and Utility grants towards energy conservation, as well as support performance contracting, justify a municipal bond-funded improvement program, or as a basis for replacement of equipment or systems.

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The energy audit consisted of an on-site visual assessment to determine current conditions, itemize the energy consuming equipment (i.e. Boilers, Make-Up Air Units, DWH equipment); review lighting systems both exterior and interior; and review efficiency of all such equipment. The study also included interviews and consultation with operational and maintenance personnel. The following is a summary of the tasks and reporting that make up the Energy Audit portion of the report.

The following is a summary of the tasks and reporting that make up the Energy Audit portion of the report.

Energy and Water Using Equipment

 Bureau Veritas has surveyed the common areas, offices, maintenance facilities and mechanical rooms to document utility-related equipment, including heating systems, cooling systems, air handling systems and lighting systems.

Building Envelope

 Bureau Veritas has reviewed the characteristics and conditions of the building envelope, checking insulation values and conditions. This review also includes an inspection of the condition of walls, windows, doors, roof areas, insulation and special use areas.

Recommendations for Energy Savings Opportunities

Based on the information gathered during the on-site assessment, the utility rates, as well as recent consumption data
and engineering analysis, Bureau Veritas has identified opportunities to save energy and provide probable construction
costs, projected energy/utility savings and provide a simple payback analysis.

Analysis of Energy Consumption

Based on the information gathered during the on-site assessment, Bureau Veritas has conducted an analysis of the
energy usage of all equipment, and identified which equipment is using the most energy and what equipment upgrades
may be necessary. As a result, equipment upgrades, or replacements are identified that may provide a reasonable
return on the investment and improve maintenance reliability.

Energy Audit Process

- Interviewing staff and review plans and past upgrades
- · Performing an energy audit for each use type
- Performing a preliminary evaluation of the utility system
- Analyzing findings, utilizing ECM cost-benefit worksheets
- Making preliminary recommendations for system energy improvements and measures
- Estimating initial cost and changes in operating and maintenance costs based on implementation of energy efficiency measures.
- Ranking recommended cost measures, based on the criticality of the project and the largest payback.



10. Historical Energy and Water Performance Metrics

Utility Data Tabulation Methodology

Establishing the energy baseline begins with an analysis of the utility cost and consumption of the facility. Utilizing the historical energy data and local weather information, we evaluate the existing utility consumption and assign it to the various end-uses throughout the buildings. The Historical Data Analysis breaks down utilities by consumption, cost and annual profile.

This data is analyzed using standard engineering assumptions and practices. The analysis serves the following functions:

- Allows our engineers to benchmark the energy and water consumption of the facilities against consumption of efficient buildings of similar construction, use and occupancy.
- Generates the historical and current unit costs for energy and water.
- Provides an indication of how well changes in energy consumption correlate to changes in weather.
- Reveals potential opportunities for energy consumption and/or cost reduction. For example, the analysis may indicate
 that there is excessive, simultaneous heating and cooling, which may mean that there is an opportunity to improve the
 control of the heating and cooling systems.

By performing this analysis and leveraging our experience, our engineers prioritize buildings and pinpoint systems for additional investigation during the site visit, thereby maximizing the benefit of their time spent on-site and minimizing time and effort by the customer's personnel.

No utility data was received by Bureau Veritas from the client at the time of report compilation. As a result, Bureau Veritas has used average utility costs from other VT Agency of Education properties to approximate the utility costs for this property. Bureau Veritas will update the report on receipt of the actual data from the client.

Utilities Metering at a	Glance
Number of electric meters observed	One
Number of gas meters observed	None
Number of central steam meters observed	None
Number of domestic water meters observed	One

	Ave	rage Utility Rates		
Electricity	Wood Chips	Propane	No. 2 Oil	Water & Sewer
Average Rate	Average Rate	Average Rate	Average Rate	Blended Rate
\$0.18 / kWh (est.)	\$0.10 / lb (est.)	\$1.96 / Gal (est.)	\$2.78 / Gal (est.)	\$16.11 / kGal (est.)



Electricity

Green Mountain Power provides electrical service to the facility.

The consumption pattern likely varies seasonally. Any seasonal variation in consumption is primarily attributed to periods when school is out of session.

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Note: No utility data was received by Bureau Veritas from the client at the time of report compilation. As a result, Bureau Veritas has used the electric rate from other properties within the same geographical region having similar construction layout and usage patterns. Bureau Veritas will update the report on receipt of the actual data from the client.

Wood Chips/Pellets

The Town of Barre locally provides wood chips to the facility. The deliveries are made on an as-needed basis.

The primary use of wood chips is for space heating. Any seasonal variation in consumption is primarily attributed to the heating loads.

Note: No utility data was received by Bureau Veritas from the client at the time of report compilation. As a result, Bureau Veritas has used the utility rates from other properties within the same geographical region having similar construction layout and usage patterns. Bureau Veritas will update the report on receipt of the actual data from the client.



Propane or Fuel Oil

The propane and fuel oil suppliers to the facility were not provided. The deliveries are made on an as-needed basis. The primary use of propane is for cooking. The primary use of fuel oil is for space heating, domestic water heating, and emergency power (generator). Any seasonal variation in consumption is primarily attributed to the heating loads, while the static base load primarily consists of domestic water heating and cooking.

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Note: No utility data was received by Bureau Veritas from the client at the time of report compilation. As a result, Bureau Veritas has used the utility rates from other properties within the same geographical region having similar construction layout and usage patterns. Bureau Veritas will update the report on receipt of the actual data from the client.

Water and Sewer

The municipality satisfies the water and sewer requirements of the facility.

The water consumption pattern most likely remains flat over the 10-month period that school is in session.

Note: No utility data was received by Bureau Veritas from the client at the time of report compilation. As a result, Bureau Veritas has used the utility rate from other properties within the same geographical region having similar construction layout and usage patterns. Bureau Veritas will update the report on receipt of the actual data from the client.



11. Energy Conservation Measures

Bureau Veritas has conducted an Energy Audit on Barre Town Elementary & Middle School. The study included a review of the building's construction features, historical energy and water consumption and costs, review of the building envelope, HVAC equipment, heat distribution systems, lighting, and the building's operational and maintenance practices.

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Bureau Veritas has evaluated two Energy Conservation Measures (ECMs) for this property. The savings for each measure are calculated using standard engineering methods followed in the industry, and detailed calculations for ECM are provided in Appendix H for reference. A 10% discount in energy savings was applied to account for the interactive effects amongst the ECMs. In addition to the consideration of the interactive effects, Bureau Veritas has applied a 15% contingency to the implementation costs to account for potential cost overruns during the implementation of the ECMs.

The following table summarizes the recommended ECMs in terms of description, investment cost, energy consumption reduction, and cost savings.

Recommended Non- Renewable Energy (Conservation Measures: Financial Impact
Total Projected Initial ECM Investment	\$32,654
Estimated Annual Cost Savings Related to ECMs	\$3,124
Net Effective ECM Payback	10.5 Years

Key Metrics to Benchmark the Subject Property's Energy Usage Profile

- <u>Building Site Energy Use Intensity</u> The sum of the total site energy use in thousands of Btu per unit of gross building
 area. Site energy accounts for all energy consumed at the building location only not the energy consumed during
 generation and transmission of the energy to the site.
- <u>Building Source Energy Use Intensity</u> The sum of the total source energy use in thousands of Btu per unit of gross building area. Source energy is the energy consumed during generation and transmission in supplying the energy to your site.
- · Building Cost Intensity This metric is the sum of all energy use costs in dollars per unit of gross building area.
- Greenhouse Gas Emissions Although there are numerous gases that are classified as contributors to the total for
 Greenhouse Emissions, the scope of this energy audit focuses on carbon dioxide (CO₂). Carbon dioxide enters the
 atmosphere through the burning of fossil fuels (oil, natural gas, and coal), solid waste, trees and wood products, and
 also as a result of other chemical reactions (e.g., manufacture of cement).

Energy Conservation Measures Screening:

Bureau Veritas screens ECMs using the financial methodology below. ECMs which are considered financially viable must meet the criteria.

Simple Payback Period —The number of years required for the cumulative value of energy or water cost savings less future non-fuel or non-water costs to equal the investment costs of the building energy or water system, without consideration of discount rates. ECMs with a payback period greater than the Expected Useful Life (EUL) of the project are not typically recommended, as the cost of the project will not be recovered during the lifespan of the equipment. These ECMs are recommended for implementation during future system replacement. At that time, replacement may be evaluated based on the premium cost of installing energy efficient equipment.





Barre Town Elementary & Middle School

		Ene	rgy Cor	servation	Measu	res								
Description of ECM	Location	Net Projected Initial Investment (\$)		Estimated Annual Savings #2 Oil (Gal)	Estimated Annual Savings Electricity (KWh)	Estimated 1 Annual Savings Water (KGal)	Total Energy Savings (MMBTU)		Estimated Utility Cost Savings (\$)	Estimated Annual O&M Savings (\$)	Total Estimated Annual Cost Savings (\$)	Simple Payback (Yrs)	Life Cycle Savings (\$)	Expected Useful Life (EUL) (Yrs)
Install Low Flow Faucet Aerators; Replace 28x 1.5GPM rated bathroom aerators with 0.5GPM WaterSense certified aerators	Location: Restrooms	\$425	0.0	68.9	0.0	16.6	9.5	0.7	\$192	0\$	\$459	6.0	\$3,487	10
Replace Rooftop Package Unit; Replace 1x cooling-only rooftop condensing unit with I modernized, energy efficient unit	ocation: Roof	\$27,970	0.0	0.0	15,939.1	0.0	54.4	3.8	\$2,869	\$143	\$3,012	9.3	\$16,848	20
otals for no/low cost items		\$425	0.0	6.89	0.0	16.6	9.5	0.7	\$192	\$0	\$459	6:0		
otal for capital cost		\$27,970	0.0	0.0	15,939.1	0.0	54.4	3.8	\$2,869	\$143	\$3,012	9.3		
nteractive Savings Discount @10%			0.0	6.9-	-1,593.9	-1.7	-6.4	-0.4	-\$306	-\$14	-\$347			
Fotal Contingency Expenses @ 15%		\$4,259												
Totals for improvements		\$32,654	0:0	62.0	14,345.2	14.9	57.5	4.0	\$2,755	\$129	\$3,124	10.5		
	DESCRITION of EAM Instal Low Flow Faucet Aerators; Replace Last Safe Mare death bath onon merators with 0.56 PM WaterSene certified aerators gene footby Package Unit, Replace 15 modern leed, or confers yet ficient unit modern leed, energy efficient unit modern	ripton of EdM Location fauct Aerators; Replace Location: do bathroom aerators terSeave certified Package Unit; Replace 1x frop, condensing unit with Location; Roof rigy efficient unit @10% @15%	intrianguage Net Project Investment Paucet Aerators; Replace Incention: \$425 Faucet Aerators; Replace Incention: \$425 Faucet Net Replace IX For Conditions and Interpretation of \$27,97 For Condition of \$27,97 For Co	intrianguage Net Project Investment Paucet Aerators; Replace Incention: \$425 Faucet Aerators; Replace Incention: \$425 Faucet Net Replace IX For Conditions and Interpretation of \$27,97 For Condition of \$27,97 For Co	intrianguage Net Project Investment Paucet Aerators; Replace Incention: \$425 Faucet Aerators; Replace Incention: \$425 Faucet Net Replace IX For Conditions and Interpretation of \$27,97 For Condition of \$27,97 For Co	intrianguage Net Project Investment Paucet Aerators; Replace Incention: \$425 Faucet Aerators; Replace Incention: \$425 Faucet Net Replace IX For Conditions and Interpretation of \$27,97 For Condition of \$27,97 For Co	Mark Projected Estimated	Mark Projected Estimated	Net Projected Estimated Estimated Estimated Carriera Carriera	Net Projected Estimated Estimated Testinated Testinat	Net Projected Estimated Estimated Estimated Estimated Production Net Projected Estimated Estimated Estimated Estimated Estimated Estimated Internal Savings National Savings Nat	The transfer of Ethinated Ethinate	Total Properties Estimated Estimat	The type Control of EdM Investment (s) Savings S

12. Certification

Vermont Agency of Education, Phase Two (the Client) retained Bureau Veritas to perform this Facility Condition
Assessment in connection with its continued operation of Barre Town Elementary (& Middle) School - Main Building, 70
Websterville Road, Barre VT, 05641, the "Property". It is our understanding that the primary interest of the Client is to
locate and evaluate materials and building system defects that might significantly affect the value of the property and to
determine if the present Property has conditions that will have a significant impact on its continued operations.

The conclusions and recommendations presented in this report are based on the brief review of the plans and records made available to our Project Manager during the site visit, interviews of available property management personnel and maintenance contractors familiar with the Property, appropriate inquiry of municipal authorities, our Project Manager's walk-through observations during the site visit, and our experience with similar properties.

No testing, exploratory probing, dismantling, or operating of equipment or in-depth studies were performed unless specifically required under the *Purpose and Scope* section of this report. This assessment did not include engineering calculations to determine the adequacy of the Property's original design or existing systems. Although walk-through observations were performed, not all areas may have been observed (see Section 1 for specific details). There may be defects in the Property, which were in areas not observed or readily accessible, may not have been visible, or were not disclosed by management personnel when questioned. The report describes property conditions at the time that the observations and research were conducted.

This report has been prepared on behalf of and exclusively for the use of the Client for the purpose stated within the *Purpose and Scope* section of this report. The report, or any excerpt thereof, shall not be used by any party other than the Client or for any other purpose than that specifically stated in our agreement or within the *Purpose and Scope* section of this report without the express written consent of Bureau Veritas.

Any reuse or distribution of this report without such consent shall be at the Client and the recipient's sole risk, without liability to Bureau Veritas.

Prepared by: Bureau Veritas Technical Assessments



13. Appendices

Photographic Record Appendix A:

Appendix B: Site Plans

Appendix C: Stem/Steam Assessment

Appendix D: School Educational Capacity and Programming Space

Appendix E: Accessibility Review & Photos Appendix F: Component Condition Report

Appendix G: Replacement Reserves Appendix H: Depleted Value Report

Appendix A: Photographic Record







1 - FRONT ELEVATION



2 - LEFT ELEVATION



3 - REAR ELEVATION



4 - RIGHT ELEVATION



5 - PLAYGROUND 1



6 - PLAYGROUND 2





7 - PLAYGROUND 3



8 - SCHOOL GARDEN



9 - ROOF TPO/PVC



10 - SPLIT SYSTEM



11 - AIR HANDLER - AHU



12 - ELECTRICAL ROOM







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14 - MAINTENANCE GARAGE (1)



15 - MAINTENANCE GARAGE (2)



16 - STORAGE / MECHANICAL



17 - STAFF WELLNESS



18 - BOYS LOCKER ROOM



19 - GIRLS LOCKER ROOM



20 - TYP. HALLWAY



21 - KITCHEN



22 - TYP. BOYS RESTROOM



23 - TYP. GIRLS RESTROOM



24 - TYP. REMODELED RESTROOM

Photographic Overview



25 - STAFF RESTROOM



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26 - STAFF BREAKROOM



27 - NURSES OFFICE



28 - TYP. CLASSROOM



29 - SCIENCE CLASSROOM



30 - TYP. OPEN CLASSROOM SPACE



31 - FOREIGN LANGUAGES



32 - TYP. OFFICE



33 - BEHAVIORAL SUPPORT



34 - TECH SHOP



35 - MUSIC REHESAL



36 - LOBBY





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37 - AUXILIARY GYM



38 - LIBRARY





39 - CAFETERIA

40 - GYMNASIUM

Appendix B: Site Plans





Project Name	Project Number
Vermont Agency of Education	158982.22R000-022.379
	Barre Town Elementary School - Main Building

Source	On-Site Date
Google MyMaps	August 15, 2023

Appendix C: Stem/Steam Assessment



STEM/STEAM Evaluation

Property Name	STEM/STEAM Suitability Score	Project Number	School Type	Square Footage
Barre Town Elementary School - Main Building	79%	158982.22R000-022.379	High	155,000

Suitability Classification	Scale
Compares Poorly	Score 0 - 25
Compares Marginally	Score 25-50
Compares Fairly	Score 50-75
Compares Well	Score 75 - 100

Score Value	Score Impact
1- Meets	100%
2- Partial	50%
3- Missing	0%

Rooms to support STEM/STE	AM Curriculum	- X= Require	ed by School	Туре
Room Types	Room Present (Yes/No)	Elementary School	Middle School	High School
Does the facility have an Art Room?	Yes	X	X	Х
Does the facility have a Science Lab?	Yes		X	Х
Does the facility have a Shop (Machine, Wood, Metal, etc.)?	Yes		Х	Х
Does the facility have a Computer Lab?	Yes	X	X	Х
Does the facility have a dedicated STEM/STEAM Room?	Yes	Х	Х	Х

		Ove	erall Complia	nce	
Questions	Art Room	Science Labs	Shops	Computer Lab	STEM/STEAM
Does the room have chemical resilient perimeter counters with a minimum of two sinks, one being ADA accessible?	2- Partial	1- Meets	2- Partial		2- Partial
Does the room have electrical outlet distribution along perimeter walls and from the ceiling?	1- Meets	2- Partial	1- Meets	2- Partial	1- Meets
Does the room have open shelving and lockable storage cabinets?	1- Meets	2- Partial	1- Meets		1- Meets
Does the room have technology connectivity and an interactive display?	1- Meets	1- Meets	1- Meets	1- Meets	1- Meets
Does the room have appropriate wet floor finishes?	1- Meets	2- Partial	1- Meets		1- Meets
Does the room have visual display boards?	1- Meets	1- Meets	1- Meets	1- Meets	1- Meets
Does the room have Prep/Storage Room?	1- Meets	2- Partial	1- Meets	3- Missing	1- Meets
Does the room have direct access to the exterior?	1- Meets	3- Missing	1- Meets		1- Meets
Does the room the ability to structurally suspend items from the ceiling?	1- Meets	2- Partial	1- Meets		1- Meets
Does the have goggle cabinets, fire extinguisher, eye wash and deluge shower?	2- Partial	2- Partial	2- Partial		2- Partial
Room Type Score	90%	60%	90%	63%	90%

Appendix D:
School Educational Capacity and Programming Space



School Educational Capacity and Programming Space

As part of Act 72, AOE has contracted with Bureau Veritas (BVNA) to complete a Facility Condition Assessment (FCA) of very public school building in Vermont. One component of the FCA report will be to identify whether the size and configuration of your current facility is meeting your school's educational and operational needs. In order for us to accurately capture your facility space needs, it is necessary for the AOE and BVNA to receive your input. To complete this brief survey, we recommend that you consult with school building leadership and facilities/custodial staff.

School Name

Barre Town Elementary & Middle School

SU/SD

Barre Supervisory Union

Does the school have an adequate number of classrooms to meet student enrollment needs?

No

Please provide some explanation and/or context (known needs, barriers, other constraints outside of space, etc.):

We need more space for restorative classroom and early ed, etc.

Does the school have adequate space to accommodate all the current educational programs being offered?

No

Please describe capacity of your school building(s) to deliver educational programming:

Need more space for early ed and special education.

Would the school provide additional programming if available space was provided?

Yes

Yes, and we would need staffing!

Does the school have adequate confidential space to provide 1:1 services to students as required to maintain FERPA, HIPPA or IEP requirements?

No

Please describe:

No we need more space for meetings with parents and student counseling.

Do the school have adequate administrative offices and/or office space for staff?

No

Please describe:

Office space is spread out throughout the building.

Based on the size of enrollment does the size of the cafeteria, kitchen and gymnasium meet the current and future enrollment needs?

No

Please describe:

More space for dining, and staffing!

BARRE TOWN ELEMENTARY (& MIDDLE) SCHOOL - MAIN BUILDING

BUREAU VERITAS PROJECT: 158982.22R000-022.379

Appendix E:

Accessibility Review & Photos



Visual Survey - ADA Standards for Accessible Design

Property Name: Barre Town Elementary & Middle School

BV Project Number: 158982.22R000 - 022.379

Facility History & Interview	v			
Question	Yes	No	Unk	Comments
ADA: Has an accessibility study been performed at the site? If so, when?	х			1996 (within a year of completing the construction of the addition & before its opening for public use.)
ADA: If a study has occurred, have the associated recommendations been addressed? In full or in part?	х			The school appears to be fully ADA compliant.
3. ADA: Have there been regular complaints about accessibility issues, or previous or pending litigation?		Х		

Building: Accessib	ility Issues			
Category	Major Issues (ADA study recommended)	Moderate Issues (ADA study recommended)	Minor Issues	None*
Parking				None
Exterior Route				None
Building Entrances				None
Interior Route				None
Elevators				None
Public Restrooms			Install Knee protection at sinks	
Playground				None

^{*}Be cognizant that if the "None" box is marked that does not guarantee full compliance; this study is limited in nature



1 - OVERVIEW OF ACCESSIBLE PARKING AREA



2 - CLOSE-UP OF 2ND ACCESSIBLE PARKING AREA



3 - PRIMARY PATH OF TRAVEL



4 - CURB CUT/RAMP



5 - MAIN ACCESSIBLE ENTRANCE



6 - SIGNAGE/HARDWARE



7 - ACCESSIBLE INTERIOR PATH (RAMP)



8 – DOOR HARDWARE



9 - TOILET STALL OVERVIEW



10 - SINK, FAUCET HANDLES



11 - ACCESSIBLE ROUTE TO PLAYGROUND



12 - OVERVIEW OF PLAYGROUND



13 - LOBBY VIEW OF CABS, WITH DOORS OPEN



14 - IN-CAB CONTROLS/EMERGENCY CALL PANEL

The table below is intended to be used as a general reference guide to help differentiate the orders of magnitude between some of the more commonly observed accessibility issues. The table is not intended to be all-inclusive, and boxes checked in the tables above do not necessarily mean those specific problems or shortcomings cited as examples below exist at the subject buildings and sites. Reference the data and photos above and/or the *Key Findings* section in the body of the report for visuals and/or more specifics about the particular subject site conditions.

Reference Guide			
	Major Issues (ADA study recommended)	Moderate Issues (ADA study recommended)	Minor Issues
Parking	Needs full reconstruction Excessive slopes over 3% require major re-grading No level locations to add required spaces	No or non-compliant curb cuts Moderate difficulty to add required accessible spaces Slopes close to compliant	Painting of markings needed Signage height non-compliant Signage missing
Exterior Route	Large areas of sidewalks with excessive slopes No ramp when needed Ramps with excessive slopes	Ramps need rails Ramps need rail extensions All or most entrance door exterior maneuvering clearance areas with excessive slopes	One entrance door exterior maneuvering clearance area with excessive slope Non-compliant signage
Building Entrances	No compliant entrance exists Exterior entry door/s not wide enough Entrance vestibule requires complete reconstruction / reconfiguration due to clearance	Need significant # of lever handles Need to add or modify automatic door opener Entrance vestibule requires limited reconfigurations	A few door knobs instead of lever handles Non-compliant door threshold
Interior Route	All or most interior doors appear less than 32" wide Corridors less than 36" wide No ramp when needed Ramps with excessive slopes Non-compliant treads/risers at means of egress stairways	- Single height drinking fountains - Drinking fountain too high or protrudes into accessible route - Ramps need rails - Ramps need rail extensions - Need significant # of lever handles - Non-compliant rail extensions at egress stairways - All/most door thresholds high	- One door threshold too high - A few door knobs instead of lever handles - Non-compliant door pressures - Non-compliant signage - Switches not within reach range
Elevators	No elevator present when required Elevator cab too small	Panel control buttons not at compliant height No hands-free emergency communication system Elevator only has mechanical stops	Audible/visual signals at every floor may be lacking Minor signage / Braille issues
Public Restrooms	No ADA RR on each accessible floor Restroom(s) too small Entire restroom(s) requires renovation Water closet clearance requires moving walls	Interior doors appear less than 32" wide Missing or non-compliant grab bars Easily fixable clearance issues	- Minor height adjustments required - Non-compliant door pressures - Missing a visual strobe (only required if audible fire alarm already present) - Missing lavatory pipe wraps - Signage not compliant

	Major Issues	Moderate Issues	Minor Issues
	(ADA study recommended)	(ADA study recommended)	
Kitchens/Kitchenettes	Clear space for each appliance not present Clearance between opposing counters too narrow	- Sink and counter too high - Sink knee and toe clearance not provided where required (built-in) - Less than 50% of cabinetry within reach range	- Dispensers not within reach range - Switches not within reach range - Missing sink pipe wraps if knee and toe clearance required
Playgrounds & Pools	Large areas of surfacing non-compliant Install compliant play structures No pool lift provided	Small area/s of surfacing or equipment non-compliant Moderate issues with path of travel to playground/pool	- Minor issues with path of travel to playground/pool

Appendix F:
Component Condition Report



UFL3 Code	Location	Category	Condition	Asset/Component/Repair	Quantity	Unit	RUL	Ω
Structure								
B1080	Stairwells	Structure	Fair	Stair Treads, Raised Rubber Tile	2,500	SF	9	6893335
Facade								
B2010	Building Exterior	Facade	Fair	Exterior Walls, Wood Siding	009	SF	9	6902046
B2020	Building Exterior	Facade	Fair	Window, Wood, 16-25 SF	4		4	6902021
B2020	Building Exterior	Facade	Fair	Window, Aluminum Double-Glazed, 16-25 SF	13		12	6902100
B2020	Building Exterior	Facade	Fair	Window, Vinyl-Clad Double-Glazed, 16-25 SF	94		18	6902072
B2050	Building Exterior	Facade	Fair	Exterior Door, Steel, Standard	8		2	6902054
B2050	Building exterior	Facade	Fair	Overhead/Dock Door, Aluminum, 20'x14' (280 SF)	2		16	6893347
R2050	Building Exterior	Facada	Fair	Exterior Door, Aluminum-Framed & Glazed, Standard	23		7	9202089
Roofing	באניום באניום	000000000000000000000000000000000000000	5	Simo	3			0.00200
B3010	Roof	Roofing	Bood	Roofing, Single-Ply Membrane, TPO/PVC	76,000	SF	17	6902075
B3010	Roof	Roofing	Fair	Roofing, Single-Ply Membrane, EPDM	3,500		13	6902023
B3010	Roof	Roofing	Fair	Roofing, Built-Up	1,200	SF	2	6902065
Interiors								
C1030	Throughout building	Interiors	Fair	Door Hardware, School, per Door	140		3	6893415
C1030	Throughout building	Interiors	Fair	Interior Door, Wood, Solid-Core	140		6	06863390
C1070	Cafeteria	Interiors	Good	Suspended Ceilings, Acoustical Tile (ACT)	3,558	SF	20	6893352
C1070	Throughout building	Interiors	Fair	Suspended Ceilings, Acoustical Tile (ACT)	150,000	SF	10	6893413
C1070	Kitchen	Interiors	Fair	Suspended Ceilings, Acoustical Tile (ACT)	1,363	JS	10	893368
C1090	Restrooms	Interiors	Good	Toilet Partitions, Plastic/Laminate	20		15	6902078
C2010	Kitchen	Interiors	Fair	Wall Finishes, Ceramic Tile	3,830		20	6893378
C2010	Throughout	Interiors	Fair	Wall Finishes, any surface, Prep & Paint	232,500		9	6934653
C2030	Cafeteria	Interiors	Good	Flooring, Vinyl Tile (VCT)	3,558	SF	11	6893417
C2030	Throughout building	Interiors	Fair	Flooring, Carpet, Commercial Standard	24,000		2	6902094
C2030	Stage	Interiors	Fair	Flooring, Wood, Strip	098	JS	10	6893349
C2030	Kitchen	Interiors	Fair	Flooring, Ceramic Tile	1,363	SF	10	6893379
C2030	Tech Shop	Interiors	Excellent	Flooring. anv surface. w/ Paint or Sealant. Prep & Paint	4.000	JS.	10	6893354
C2030	Restrooms	Interiors		Flooring, Ceramic Tile	640		34	6902025
C2030	Restrooms	Interiors	Fair	Flooring, Ceramic Tile	640	SF	56	6893387
C2030	Stairwells	Interiors	Poor	Flooring, Vinyl Tile (VCT), w/ Asbestos Abatement	1,000	SF	0	6893346
C2030	Locker room	Interiors	Fair	Flooring, Ceramic Tile	3,000	JS	15	6893416
C2030	Throughout building	Interiors	Fair	Flooring, Carpet, Commercial Standard	22,000	SF	2	6893409
C2030	Library	Interiors	Good	Flooring, Carpet, Commercial Standard	23,000	JS	8	6893343
C2030	Throughout building	Interiors	Good	Flooring, Vinyl Tile (VCT)	70,000	SF	10	6893331
C2030	Mechanical Rooms	Interiors	Fair	Flooring, any surface, w/ Paint or Sealant, Prep & Paint	1,500	JS	2	6893348
C2030	Stairwells	Interiors	Fair	Flooring, Quarry Tile	009	SF	7	6902069
Conveying								
				Passenger Elevator, Hydraulic, 2 Floors, 1500 to 2500	,			
01010		Conveying	Fair	LB, Renovate	п,		٠,	6893324
D1010		Conveying	Fair	Elevator Cab Finishes, Standard	1		00	6893405
D1010		Conveying	Fair	Elevator Controls, Automatic, 1 Car	7		m	6893393

UFL3 Code	Location	Category	Condition	Asset/Component/Repair	Quantity	Unit	RUL	_
Plumbing								
D2010	Kitchen	Plumbing	Good	Sink/Lavatory, Commercial Kitchen, 3-Bowl	1		21	6893361
D2010	Mechanical room	Plumbing	Fair	Water Heater, Indirect	2		2	6902016
D2010	Mechanical room	Plumbing	Fair	Water Heater, Indirect	1		2	6902052
D2010	Throughout building	Plumbing	Fair	Drinking Fountain, Wall-Mounted, Single-Level	12		6	6893333
D2010	Throughout building	Plumbing	Fair	Sink/Lavatory, Commercial Kitchen, 1-Bowl	11		15	6893399
D2010	Utility closet	Plumbing	Fair	Sink/Lavatory, Service Sink, Floor	1		15	6893392
D2010	Restroom	Plumbing	Good	Toilet, Commercial Water Closet	47		21	6893377
D2010	Maintenance Garage	Plumbing	Fair	Sink/Lavatory, Commercial Kitchen, 2-Bowl	1		15	6902044
				Plumbing System, Supply & Sanitary, Medium Density				
D2010	Throughout	Plumbing	Fair	(excludes fixtures)	155,000	SF	14	6934654
D2010	Kitchen	Plumbing	Fair	Sink/Lavatory, Commercial Kitchen, 1-Bowl	1		15	6893418
D2010	Throughout building	Plumbing	Fair	Sink/Lavatory, Wall-Hung, Vitreous China	28		14	6893340
D2010	Electrical Room 147	Plumbing	Fair	Sink/Lavatory, Service Sink, Floor	1		∞	6902028
D2010	Throughout building	Plumbing	Fair	Sink/Lavatory, Vanity Top, Stainless Steel	2		14	6893402
D2010	Throughout building	Plumbing	Good	Urinal, Standard	16		20	6893374
D2010	Restrooms	Plumbing	Fair	Shower, Valve & Showerhead	9		2	6902092
D2010	Classrooms	Plumbing	Fair	Sink/Lavatory. Service Sink. Laundry	1		13	6893372
				Supplemental Components, Grease Trap/Interceptor,				
D2020	Kitchen	Plumbing	Fair	Underground	1		n	6893330
D2060	Maintenance Garage	Plumbing	Fair	Air Compressor, Tank-Style	1		2	6902018
HVAC								
D3020	Throughout building	HVAC	Fair	Unit Heater, Hydronic, 13 to 36 MBH	5		9	6893406
D3020	Maintenance Garage	HVAC	Fair	Boiler, Gas, HVAC	1		3	6902038
D3020	Maintenance Garage	HVAC	Fair	Boiler, Gas, HVAC	1		3	6902020
D3020	Throughout building	HVAC	Fair	Radiator, Hydronic, Baseboard (per LF)	800	LF	15	6893362
D3020	Maintenance Garage	HVAC	Fair	Boiler, Gas, HVAC	1		3	6902056
D3020	Throughout building	HVAC	Fair	Radiator, Hydronic, Column/Cabinet Style (per EA)	00		3	6893370
D3030	Roof	HVAC	Fair	Split System, Condensing Unit/Heat Pump	1		2	6902032
				Split System, Condensing Unit/Heat Pump, 16 to 20				
D3030	Roof	HVAC	Fair	TON	2		8	6902085
D3030	Roof	HVAC	Fair	Split System, Condensing Unit/Heat Pump	1		3	6902083
D3030	Roof	HVAC	Fair	Split System, Condensing Unit/Heat Pump	3		3	6902040
D3030	Roof	HVAC	Fair	Split System, Condensing Unit/Heat Pump	'n		2	6902077
D3030	Roof	HVAC	Fair	Split System, Condensing Unit/Heat Pump	1		3	6902104
D3030	Roof	HVAC	Good	Split System, Condensing Unit/Heat Pump	2		11	6902095
D3030	Roof	HVAC	Excellent	Split System, Condensing Unit/Heat Pump	3		15	6902089
D3030	Roof	HVAC	Good	Split System, Condensing Unit/Heat Pump	2		11	6902069
D3030	Roof	HVAC	Fair	Split System, Condensing Unit/Heat Pump	1		3	6902061
D3030	Roof	HVAC	Fair	Split System, Condensing Unit/Heat Pump	1		7	6902087
D3030	Tech Shop	HVAC	Failed	Unit Ventilator, approx/nominal 2 Ton, 300 to 750 CFM	1		0	6893395
D3030	Roof	HVAC	Fair	Split System, Condensing Unit/Heat Pump	1		2	6902055
D3030	Classrooms	HVAC	Excellent	Split System, Fan Coil Unit, DX	3		15	6893342
D3030	Classrooms	HVAC	Good	Unit Ventilator, approx/nominal 3 Ton	2		17	6902036
D3030	Roof	HVAC	Fair	Split System, Condensing Unit/Heat Pump [UVC4]	1		3	6902037
D3050	Roof	HVAC	Fair	Air Handler, Exterior AHU, 8001 to 10000 CFM	1		2	6902071

UF L3 Code	Location	Category	Condition	Asset/Component/Repair	Quantity	Unit	RUL	QI
D3050	Roof	HVAC	Fair	Air Handler, Exterior AHU, 8001 to 10000 CFM	1		2	6902069
	Roof	HVAC	Fair	Air Handler, Exterior AHU, 6001 to 8000 CFM [C3]	1		2	6902027
D3050	Roof	HVAC	Fair	Air Handler, Exterior AHU	1		2	6902051
D3050	Throughout	HVAC	Fair	HVAC System, Hydronic Piping, 2-Pipe	155,000	SF	10	6934649
D3050	Roof	HVAC	Fair	Air Handler, Exterior AHU, 8001 to 10000 CFM	1		2	6902106
D3050	Gymnasium	HVAC	Fair	Fan Coil Unit, Hydronic Terminal, 1201 to 1800 CFM	4		7	6893367
				Air Handler, Interior AHU, Easy/Moderate Access, 2401				
	Utility closet	HVAC	Fair	to 4000 CFM [AHU 3]	1		2	6893414
D3050	Throughout building	HVAC	Fair	Fan Coil Unit, Hydronic Terminal, 200 to 400 CFM	3		2	6893403
D3050	Storage / Mechanical	OAX	Fair	Air Handler, Interior AHU, Easy/Moderate Access, 2401 to 4000 CFM [AHU - 4]	-		2	6893381
	Roof	HVAC	Fair	Exhaust Fan, Roof or Wall-Mounted, 16" Damper	2		3	6902053
				Exhaust Fan, Roof or Wall-Mounted, 10" Damper, 50 to				
D3060	Roof	HVAC	Fair	500 CFM	9		2	6902068
D3060	Roof	HVAC	Fair	Exhaust Fan, Centrifugal, 12" Damper	1		3	6902102
D3060	Roof	HVAC	Fair	Exhaust Fan, Centrifugal, 16" Damper [EF - 2]	1		3	6902066
	4		i	Exhaust Fan, Roof or Wall-Mounted, 24" Damper [EB-	,		r	0000
D3060	Roof	HVAC	Fair	10]	1		m	6902062
D3060	Roof	HVAC	Fair	Exhaust Fan, Roof or Wall-Mounted, 42" Damper [EB-7]	1		ĸ	6902039
Fire Protection	-							
D4010	Throughout	Fire Protection	Fair	Fire Suppression System, Existing Sprinkler Heads, by SF	155,000	SF	4	6934652
Electrical								
D5010	Maintenance Garage	Electrical	Fair	Generator, Diesel	1		3	6902090
D5010	Site	Electrical	Poop	Generator, Diesel, 405 to 500 KW	1		21	6893350
D5020	Electrical Room 147	Electrical	Fair	Secondary Transformer, Dry, Stepdown	1		4	6902034
D2020	Electrical Room 147	Electrical	Fair	Distribution Panel, 277/480 V	1		2	6902064
D5020	Electrical Room 147	Electrical	Fair	Distribution Panel, 277/480 V	1		2	6902091
	Electrical room	Electrical	Fair	Secondary Transformer, Dry, Stepdown	1		2	6893383
	Electrical room	Electrical	Fair	Secondary Transformer, Dry, Stepdown	1		5	6893326
	Roof	Electrical	Fair	Secondary Transformer, Dry, Stepdown	1		4	6902022
	Mechanical room	Electrical	Fair	Distribution Panel, 277/480 V	1		2	6902014
	Electrical room	Electrical	Fair	Secondary Transformer, Dry, Stepdown	1		2	6893388
	Electrical room	Electrical	Fair	Distribution Panel, 277/480 V	1		2	6902030
	Throughout building	Electrical	Fair	Distribution Panel, 120/208 V	16		2	6893382
	Tech Shop	Electrical	Fair	Distribution Panel, 277/480 V	1		2	6902086
	Throughout building	Electrical	Fair	Distribution Panel, 120/240 V, Residential Style	2		5	6902026
	Mechanical room	Electrical	Fair	Secondary Transformer, Dry, Stepdown	1		5	6902033
	Electrical room	Electrical	Fair	Distribution Panel, 277/480 V [1 B]	1		5	6893363
	Electrical room	Electrical	Fair	Distribution Panel, 277/480 V [Lighting Panel]	1		5	6902048
	Storage / Mechanical	Electrical	Fair	Distribution Panel, 120/208 V	1		5	6893344
	Maintenance Garage	Electrical	Fair	Distribution Panel, 120/240 V, Residential Style	2		3	6902093
	Electrical room	Electrical	Fair	Distribution Panel, 277/480 V [1 A]	1		3	6893420
	Maintenance Garage	Electrical	Fair	Secondary Transformer, Dry, Stepdown	1		3	6902070
	Tech Shop	Electrical	Fair	Distribution Panel, 277/480 V	1		5	6902082
D5020	Electrical Room 147	Electrical	Fair	Distribution Panel, 120/240 V	1		5	6902042

UFL3 Code	Location	Category	Condition	Asset/Component/Repair	Quantity	Unit	RUL	Q
D2030	Maintenance Garage	Electrical	Fair	Variable Frequency Drive, VFD, by HP of Motor, 10 HP	2		2	6902080
D5030	Throughout	Electrical	Fair	Electrical System, Wiring & Switches, High Density/Complexity	155,000	SF	4	6934650
D5040	Throughout	Electrical	Fair	Interior Lighting System, Full Upgrade, Medium Density & Standard Fixtures	155,000	'n	2	6934656
Fire Alarm &	Fire Alarm & Electronic Systems							
D7050	Office	Fire Alarm & Electronic Systems	Fair	Fire Alarm Panel, Fully Addressable	1		7	6934655
D7050	Throughout	Fire Alarm & Electronic Systems	Fair	Fire Alarm System, Full System Upgrade, Standard Addressable, Install	155,000	SF	2	6934651
Equipment & Furnishings	. Furnishings							
E1030	Kitchen	Equipment & Furnishings	Poop	Foodservice Equipment, Walk-In, Freezer [Freezer 1]	1		15	6893412
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Icemaker, Freestanding	1		6	86883388
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Refrigerator, 1-Door Reach-In	1		4	6902067
E1030	Kitchen	Equipment & Furnishings	Good	Foodservice Equipment, Exhaust Hood, 8 to 10 LF	1		13	6893345
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Microwave Commercial	2		3	6893357
E1030	Kitchen	Equipment & Furnishings	Good	Foodservice Equipment, Dishwasher Commercial	1		00	6893338
E1030	Kitchen	Equipment & Furnishings	Good	Foodservice Equipment, Walk-In, Freezer	1		15	6893380
E1030	Kitchen	Equipment & Furnishings	Poor	Foodservice Equipment, Convection Oven, Double	1		0	6893337
E1030	Kitchen	Equipment & Furnishings	Fair	Food Preparation Line, Commercial Kitchen	1	rs	6	6893360
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Convection Oven, Double	1		4	6893386
				Foodservice Equipment, Walk-In, Condenser for				
E1030	Roof	Equipment & Furnishings	Good	Refigerator/Freezer	2		15	6902041
				Foodservice Equipment, Refrigerator, Undercounter 2-				
E1030	Kitchen	Equipment & Furnishings	Failed	Door	1		0	6893411
				Foodservice Equipment, Walk-In, Evaporator for				
E1030	Kitchen	Equipment & Furnishings	Fair	Refigerator/Freezer [Freezer 1]	1		6	6893359
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Griddle	1		2	6893391
6	1	i c		Foodservice Equipment, Walk-In, Evaporator for	,		;	
E1030	Kitchen	Equipment & Furnishings	Good	Retigerator/Freezer	1		14	6893336
E1030	Kitchen	Equipment & Furnishings	Excellent	Foodservice Equipment, Walk-In, Evaporator for Refigerator/Freezer	1		15	6893369
	-			Foodservice Equipment, Food Warmer, Proofing	,			
E1030	Kitchen	Equipment & Furnishings	Fair	Cabinet on Wheels	I		D.	6893325
F1030	Kitchen	Farrinment & Furnichings	iea	Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich	,		Ľ	6893404
			3	Foodservice Equipment, Walk-In, Condenser for	1)	
E1030	Roof	Equipment & Furnishings	Excellent	Refigerator/Freezer	1		15	6902081
E1030	Kitchen	Equipment & Furnishings	Good	Foodservice Equipment, Tilting Skillet	1		17	6883389
0007	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	:	Foodservice Equipment, Food Warmer, Proofing	7			*0000
ETOSO	Nicrien	Equipment & Furnishings	Lall	Cabinet on wheels	Т		ָר ת	0893394
E1030	Kitchen	Equipment & Furnishings	Good	Foodservice Equipment, Dairy Cooler/Wells	1		12	6893410
F1030	Roof	Fourinment & Furnishings	Excellent	Foodservice Equipment, Walk-In, Condenser for Refrigerator/Freezer			15	6902035
E1030	Kitchen	Equipment & Furnishings	Good	Foodservice Equipment, Convection Oven, Single	1		6	6893339
F1030	Kitchen	Folipment & Furnishings	poog	Foodservice Fauinment, Slicer	-		6	6893366
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Walk-In, Refrigerator	1		6	6893355

UFL3 Code	Location	Category	Condition	Asset/Component/Repair	Quantity	Unit	RUL	0
E1030	Kitchen	Equipment & Furnishings	Good	Foodservice Equipment, Dairy Cooler/Wells	2		12	6893407
E1030	Kitchen	Equipment & Furnishings	Good	Foodservice Equipment, Mixer, Freestanding	1		20	6893397
F1030	Kitchen	Equipment & Furnishings	Good	Foodservice Equipment, Refrigerator, 2-Door Reach-In			13	9688389
E1030	Kitchen	Equipment & Furnishings	Fair	Foodservice Equipment, Range, 2-Burner	1		8	6893334
E1060	Throughout building	Equipment & Fumishings	Fair	Residential Appliances, Refrigerator, 14 to 18 CF	3		2	6893341
E2010	Classrooms	Equipment & Fumishings	Fair	Casework, Countertop, Plastic Laminate	1,000	LF	7	6893356
E2010	Classrooms	Equipment & Fumishings	Fair	Casework, Cabinetry, Hardwood Standard	1,500	LF	7	6893385
Pedestrian Pl	Pedestrian Plazas & Walkways							
G2020	Site	Pedestrian Plazas & Walkways	Good	Parking Lots, Pavement, Asphalt, Seal & Stripe	68,000	SF	4	6902101
G2020	Site	Pedestrian Plazas & Walkways	Fair	Parking Lots, Pavement, Asphalt, Mill & Overlay	68,000	SF	16	6893375
G2030	Site	Pedestrian Plazas & Walkways	Fair	Sidewalk, Concrete, Small Areas/Sections	1,265	SF	10	6893373
Athletic, Reci	Athletic, Recreational & Playfield Areas							
G2050	Site	Athletic, Recreational & Playfield Areas	Fair	Play Structure, Multipurpose, Small	1		∞	6893328
G2050	Site	Athletic, Recreational & Playfield Areas	Failed	Sports Apparatus, Basketball, Backboard/Rim/Pole	2		0	6902024
G2050	Site	Athletic, Recreational & Playfield Areas	Excellent	Excellent Playfield Surfaces, Chips Wood, 6" Depth	10,000	SF	3	6893400
G2050	Site	Athletic, Recreational & Playfield Areas	Poor	Play Structure, Swing Set, 4 Seats	2		1	6893358
				Athletic Surfaces & Courts, Basketball/General, Asphalt				
G2050	Site	Athletic, Recreational & Playfield Areas	Fair	Pavement, Mill & Overlay	4,600	SF	12	6902096
G2050	Site	Athletic, Recreational & Playfield Areas	Fair	Sports Apparatus, Basketball, Backboard/Rim/Pole	2		15	6902050
G2050	Site	Athletic, Recreational & Playfield Areas	Fair	Play Structure, Multipurpose, Very Small	2		8	6893419
G2050	Site	Athletic, Recreational & Playfield Areas	Fair	Play Structure, Multipurpose, Medium	2		10	6893351
				Athletic Surfaces & Courts, Basketball/General, Asphalt				
G2050	Site	Athletic, Recreational & Playfield Areas	Failed	Pavement, Seal & Stripe	4,600	SF	0	6902103
Sitework								
G2060	Site	Sitework	Fair	Fences & Gates, Fence, Chain Link 4'	554	LF	4	6893376
				Exterior Lighting, Wall Pack, any type w/ LED, 13 to 26				
G4050	Site	Sitework	Fair	Α	12		13	6902058
				Pole Light Fixture w/ Lamps, any type 20' High, w/ LED				
G4050	Site	Sitework	Fair	Replacement, Replace/Install	9		10	6902019

Appendix G: Replacement Reserves



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Estimate C17 713 078	Deficiency Repair	Estimate	\$25,000	54,800	\$12,350	\$84,600	\$29,900	\$4,800	\$15,000	\$16,800	\$38,500	\$1,292,000	998,00	\$86,000	\$4,772	\$225,000	\$12,453	\$37,500	\$68,940	\$4,500	\$12,000	\$15,600	\$24,53	\$12,90	\$16,000	\$350,00	\$350,000	\$330,000	\$345,000	\$5,000	\$5,000	\$9,00	09'6\$	\$12,40	\$1,705,000	\$4,800	ANA
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		Subfotal	\$25,000	\$4,800	\$12,350	\$84,600	\$29,900	\$4,800	\$15,000	\$16,800	\$38,500	\$1,292,000	\$98,000	\$56,000	\$4,771	\$525,000	\$12,453	\$37,500	\$68,940	\$2,250	\$6,000	\$15,600	\$24,534	\$12,900	\$8,000	\$350,000	\$180,000	\$165,000	\$172,500	\$5,000	\$55,000	\$9,000	\$4,800	\$6,200	\$1,705,000	\$4,800	3000
	1	Unit Cost "	\$10.00	3,200.00	3950.00	3300.00	\$1,300.00	\$600.00	\$7,500.00	\$14.00	\$11.00	\$17.00	\$700.00	\$400.00	\$3.50	\$3.50	\$3.50	\$750.00	\$18.00	\$1.50	\$1.50	\$26.00	\$18.00	\$15.00	\$8.00	\$5.00	\$7.50	\$7.50	\$7.50	\$5,000.00	\$55,000.00	9,000,00	\$4,800.00			\$800.00	2000000
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		Cost Description	Stair Treads, Raised Rubber Tile, Replace	od, 36-25 SF, Replace	Window, Auminum Double-Glazed, 35-25 SF. Replace	Window, Vinyl-Clad Bouble Glazed, 16-2.	Exterior Door, Muminum-Framed & Glazed, Standard Swing, Replace	Exterior Door, Steel, Standard, Replace	Overhead/Dock Door, Auminum, 20x14 (280.5F). Replace	Roofing, Built-Up, Replace	-Ply Membrane, EPDA Replace	Roofing, Single Ply Membrane, TPO/PV (Replace	nterior Door, Wood, Solid-Core, Replace	6893415 Door Hardware, School, per Door, Replace	Suspended Celings, Acoustical Tile (ACT) Reckoo	Suspended Cellings, Acoustical Tile (ACT), Replace	Suspended Cellings, Acoustical Tile (ACT) Replace	Tollet Partitions, Rastic/Laminate, Replace	Wall Enishes, Ceramic Tile, Replace Mall Enishes, any surface. Prec & Bil	Flooring, any surface, w/Paint or Sealant Preo & Paint	Flooring, any surface, w/Paint or Sealant Preo & Paint	Suarry Tile, Replace	Rooring, Ceramic Tile, Replace	Flooring, Wood, Strip, Replace	Flooring, Viny/Tile (VCT), w/ Adbestos Absternent, Replace	Rooring, Viry! Tile (VCT), Replace	Rooring, Viryl Tile (NCT), Replace Rooring, Carpet, Commercial Standard,	Rooring, Carpet, Commercial Standard, Beolace	Rooring, Carpet, Commercial Standard, Replace	Elevator Controls, Automatic, 1 Car, Replace	Passenger Bevator, Hydraulic, 2 Floors, 1900 to 2500 LB. Renovate	levator Cab Finishes, Standard, Replao	Water Heater, Indirect, Replace	Water Heater, Indirect, Replace Plumbing System, Supply & Sanitary,	Medium Density (excludes fixtures), Replace	Shower, Valve & Showerhead, Replace	STRUCK MICH. STRUCKSTIFF, FOC. MICH.
	1	Š	Rair Treads, Rai	Window, Wo	rindow, Aumir	rindow, Minyl-c	Exterior Doo Glazed, Sta	Exterior Door,	Averhead/Dock	Roofing	Roofing, Singl.	ooding, Single	sterior Door, V	or Hardware,	uspended Cell	uspended Cell	uspended Cell	ilet Partitions,	Wall Finishes	boring, any su	boring, any su	Rooring,	Rooring, C	Flooring \	Flooring, Viny Abate	Rooring, Vi	Rooring, VI Rooring, Carpi	Rooring, Carpi	Rooring, Carpo	Elevator Con	Passenger Bev 1900 to	Jevator Cab Fi	WaterHea	Water Hea Plumbing Sys	Mediumber	Shower, Valve	THE LANGE TO SELECT
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Deficien cy Repair Estimate	\$42,000	\$6,000	\$2,100	\$1,600	\$17,600	\$17.600	\$12,000	\$7,270	\$33,800	\$270,000	\$6,400	\$8,500	\$220,000	\$14,800	\$20,400	390,000	\$6,800	\$8,000	000'066	\$20,400	\$220,000	\$440,000	\$5,200	\$75,600	\$8,000	\$6,800	\$9,000	\$13,800	\$18,000	\$775,000	\$58,800	\$58,800	\$48,000	\$58,800	\$22,000	\$22,000	\$84,000	\$5,010
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2025															\$10,200	\$45,000															\$58,800	\$58,800	\$48,000	\$58,800	\$22,000	\$22,000	Π	
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2023						Ц		Ц	1	L				\$7,400													Ц									Ц	Ц	
Subtotal	\$42,000	\$6,000	\$2,300	\$1,600	\$17,600	\$300	\$12,000	+	\$33,800	\$270,000	\$6,400	\$8,500	\$120,000	\$7,400	\$10,200	\$45,000	\$3,400	\$4,000	\$45,000	\$10,200	\$60,000	\$220,000.00 \$220,000	\$5,200	\$75,600	\$8,000	\$6,800	\$9,000	\$13,800	\$18,000	\$775,000	\$58,800	\$58,800	\$48,000	\$58,800	\$22,000		\$84,000	\$5,010
Unit Cost *	\$1,500.00	\$1,200.00	\$2,100.00	\$1,600.00	\$1,600.00	\$1,100.00	\$12,000.00	\$7,270.00	\$33,800.00	\$270,000.00	3800.00	\$1,700.00	\$150.00	\$7,400.00	\$3,400.00	\$45,000.00	\$3,400.00	\$400000	\$45,000.00	\$3,400.00	\$60,000.00	\$220,000.00	\$5,200.00	\$37,800.00	\$4,000.00	\$3,400.00	\$3,000.00	\$4,600.00	\$9,000.00	\$5.00	\$58,800.00	\$58,800.00	\$48,000.00	\$58,800.00	\$22,000.00	\$22,000.00	\$81,000.00	\$1,670.00
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Cost Description	Sink, Lavatory, Wall-Hung, Ntreous China Replace	Sink/Lavatory, Varity Top, Stainless Steel Replace	Snik/Lavatony, Commercial Kitichen, 2. Bowl, Replace	Snik/Lavatony, Commercial Kitichen, 1. Bowl, Replace	Snk/Lavatory, Commercial Kitcher Bowl, Replace	Sink/Lavatory, Service Sink, Floor, Replan Urinal, Standard, Replace	Supplemental Components, Grease Translitter entor Underground Berlace	Air Compressor, Tank-Style, Replace	Boller, Gas, HVAC, Replace Boller, Gas HVAC, Replace	Boiler, Gas, HVAC, Replace	Radiator, Hydronic, Column/Cabinet Style (per EA), Replace	Unit Heater, Hydronic, 13 to 36 MBH, Replace	Radiator, Hydronic, Baseboard (per LF). Replace	Unit Vendlator, approx/nominal 2 Ton,30 to 750 CFM. Replace	Split System, Condensing Unit/Heat Pump Replace	Split System, Condensing Unit/Heat Pump Replace	Split 9/stem, Condensing Unit/Heat Pump Replace	Split System, Condensing Unit/Heat Pump, Replace	Split System, Condensing Unit/Heat Pump. Replace	Split System, Condensing Unit/Heat Pump, Replace	Split System, Condensing Unit/Heat Pump Replace	Split System, Condensing Unit/Heat Pump Replace	Split System, Condensing Unit/Neat Pump Replace	Split System, Condensing Unit/Heat Pump 16 to 20 TON, Replace	Split System, Condensing Unit/Heat Pump Replace	Split System, Condensing Unit/Heat Pump, Replace	Splt System, Fan Coll Unit, DX, Replace	Split System, Condensing Unit/Heat Pump Replace	Unit Ventilator, approx/nominal 3 Ton, Replace	HVAC System, Hydroric Piping, 2-Pipe, Replace	Air Handler, Exterior AHU, 8001 to 10000 GFM, Replace	Air Handler, Exterior AHU, 8001 to 10000 CFM, Replace	Air Handler, Exterior AHU, 6001 to 8000 CPM, Replace	Air Handler, Exterior AHU, 8001 to 10000 CFM, Replace	Air Handler, Interior AHU, Easy/Moderate Acoess, 2401 to 4000 CFM, Replace	Air Handler, Interior AHU, Easy/Moderate Acoess, 2401 to 4000 CFM, Replace	Air Hander, Experior AHU, Replace fan Coll Inte Harbonic Tarminal 2001o	400 CFM, Replace
Q	6893340	6893402	6902044	6893418	6853399	6893392 5	6893330	6902018	6902038	6902056	6893370	6893.406	6893362	6893395	6902077	6902032	6902304	6902037	6902083	6902040	6902061	6902055	6902087	6902085	6902095	6802089	6893342	6802089	6902036	6934649	6902071	6902069	6902027	6902306	6893414	6893381	6902051	6893403
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Deficien cy Repair Estimate	\$15,360	\$7,200	\$11,000	\$3,000	\$2,400	\$4,800	\$1,400	\$165,890	\$40,000	\$7,600	\$6,700	\$16,000	\$10,000	\$6,700	\$16.000	\$6.700	\$10,000	\$10,000	\$2,20	\$7,000	\$7.000	\$5,300	\$5.500	\$10,000	\$14,000	\$21,000	\$32,000	94,000	\$620,000	\$14,000	\$487.500	6465.000	\$15.000	\$3,400	\$28,500	\$4,400	\$3,400	\$5,400	410 000
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7202								\$365,890				\$16,000	\$10,000													I		Ī	2620,000									\$2,700	
3026			\$11,000	\$3,000	\$2,400	\$4,800	\$1,400		\$40,000		\$6,700						İ	Ħ	\$2,200	\$7,000		H			t		1	t	l							\$2,200	\$1,700		
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Subtotal	\$15,360	\$7,200	\$11,000	\$3,000	\$2,400	\$4,800	\$1,400	\$165,850	\$40,000	\$7,600	\$6,700	\$16,000	\$10,000	\$6,700	\$16,000	\$6.70	\$10,000	\$10,000	\$2,200	\$7,000	\$7,000	\$5,300	\$5.500	\$10,000	\$14,000	\$21,000	\$32,000	000'00	\$620,000	\$14,000	\$697.500	0003983	+	\$1,70	\$9,500	\$2,300	\$1,700		
Unit Cost *	\$3,840.00	\$1,200.00	\$11,00000	\$3,000.00	\$2,400.00	\$2,400.00	\$1,400.00	\$1.07	\$40,000.00	\$7,600.00	\$6,700.00	\$36,000.00	\$10,000.00	\$6,700.00	\$36,000.00	\$6,700.00	\$30,000,00	\$30,000,00	\$1,100.00	\$7,000,00	\$7,000,00	\$5,300.00	\$110000	\$30,000,00	\$34,00000	\$21,000.00	\$2,000,00	0100070	24:00	\$7,000.00	9 79	63.00	\$25,000.00	\$1,700.00	\$9,500.00	\$1,100.00	\$1,700.00	\$2,700.00	
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Lifespan (EUL)	20	20	20	20	25	20	22	25	25	30	30	30	30	30	30	30	30	30	30	30	30 30	1 1	30	30	30	40	30	8	ą	20	90	90	15	15	01	10	15	15	
	~	_	Exhaust Fan, Roof or Wall-Mounted, 42" 9 Damper, Replace	-	-	Exhaust Fan, Roof or Wall-Mounted, 16" 3 Damper, Replace		Œ	O Generator, Diesel, Replace		-	_			Secondary Transformer, Dry, Stepdown, 3 Replace	Secondary Tran	Distribu	Q	Distribution Panel, 220/240 V, Residential Style, Replace	Distribution Panel, 277/480 V, Replace	A Distribution Panel, 277/480 V, Replace	5 Distribution Panel, 277/480 V, Replace	Distribution Panel, 120/240 V, Residential Style, Replace	Н	8 Distribution Panel, 277/480 V, Replace Distribution Panel, 277/480 V. Replace	\bot	2 Distribution Panel, 120/208 V, Replace	w	O Density/Complexity, Replace Variable Frequency Drive, VFD, by HP of	_	Interior Lighting System, Full Upgrade, Medium Density & Standard Flotures, A Rentice	ú.			Foodervice Equipment, Convection Oven, 7 Double, Replace	Ь.	u.	Foodservice Equipment, Refrigerator, 1- 7 Door Reach-in, Replace	100
QI	6893367	6902069	690203	6902062	6902066	6902053	6902302	6934652	630208	6893383	690200	6902084	2002059	6893388	6902083	6893326	630209	690203	6902093	6893420	690200	690208	6902026	6893363	6902048	690204	6893382	+	6934650	6902080	693465	1307100	693466	6893411	-	6893357	6893334		Н
Uniformat Code	03020	03060	03060	03060	03060	03060	03060	D4010	05010	05020	02050	05020	D5020	05020	05020	05020	02050	22020	05020	05020	05020	02050	05020	02050	05020	02050	05020	1000	05030	05030	05040	03000	07050	E3030	E3030	63030	E3030	63030	

Deficiency Repair Estimate	\$9,400	\$43,000	\$4,600	\$15,000	\$6,700	\$20,000	\$1,700	\$1,700	\$11,200	\$6,400	\$3,600	\$7,200	\$4,500	\$4,600	\$4,600	\$6.30	\$4,600	\$6,300	\$25,000	\$25,000	\$12,600	\$24,500	\$14,000	\$3,600	\$450,000	\$50,000	\$122,400	\$238,000	\$25,300	\$19,000	\$10,330	\$16,100
2043																							\$14,000	\$1,800							\$2,000	
2042									\$5,600	\$3,200																	\$30,600					
2041		\$21,500																														
2040																						\$24,500										
2039																												\$238,000				
2038																\$6300	\$4600	\$6300	\$25,000	\$25,000	\$12,600										\$2,070	
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2036													\$4500	\$4,600																		
2035											\$3,600	\$7,200																				\$36,100
2034																																
2033																													\$25,300		\$2,070	
2032			\$4,600	\$15,000	\$6,700	\$20,000	\$1,700	\$1,700	\$5,600	\$3,200																	\$30,600					
2031	\$9,400	\$21,500																														
3030																									\$450,000	\$0,000						
3029																								0								
3028																								\$1,800							\$2,000	
2027																											\$30,600					
3026																																
2025																																
2028																														8	9	
2023				_		_				Щ															0		_	0		\$19,000	\$2,070	
Subtotal	\$9,400		\$4,600	\$15,000	\$6,700	\$20,000	\$1,700	\$1,700	\$5,600	н	\$3,600	\$7,200	\$4,300	\$4,600	\$4,600	96.300	\$4,600	\$6,300	\$25,000	-	\$12,600	\$24,500	\$14,000	\$1,800	\$450,000	\$50,000	\$30,600	\$238,000	\$25,300	\$19,000	\$2,000	\$16,100
Unit Unit Cost *	\$4,700.00	\$21,500.00	\$4600.00	\$15,000.00	\$6,700.00	00'000'00\$	00'00'1\$	00'002'1\$. "	\$3,200.00	\$3,600.00	\$3,600.00	\$4,500.00	\$4,600.00	\$4,600.00	\$630000	\$4,600,00	\$630000	54,000.00	\$25,000.00	\$630000	EA \$28,500.00	\$34,000.00	80000	\$300.00	\$50.00	\$0.45	\$3.50	\$20.00	\$9,500.00	\$0.45	\$3.50
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	Foodservice Equipment, PrepTable Refrigerated, Salad/Sandwich, Replace		- G	Foodservice Equipment, Walk-In, Refrigerator, Replace			Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels, Replace		Ú.	Foodservio	_		W.	Foodservice Equipment, Refrigerator, 2- Door Readh-In, Replace	w	Foodservice Equipment, Walk-In, Condenser for Refigerator/Freezer, Residue	Foodservice Evaporator fo	Foodservice Equipment, Walk-In, Condenser for Befrigerator/Freezer, Replace	_	8		90	Foodservice Equipment, Niver, Freestanding, Replace	ě	3	-	u.	Parking Lots, Pavement, Asphalt, Mill & Overlay	Sidewalk, Concrete, Small Areas, Sections, Replace	Sports Apparatus, Basketball, Backbo ard/Rinv/Pole, Replace		Athletic Surfaces & Courts, Busketball/General, Asphalt Pavement, Mill & Overlay
9	6893404	6893338	6893359	6893355	6893398	0981360	6893325	MEE 689	6893339	993396	6893410	6893407	6893345	96813396	6893336	6902081	6893369	6902035	6893412	6893380	6902041	6853389	6893397	6893341	6893385	6893356	6902301	6893375	6893373	6902024	6902303	6902096
Uniformat	05053	61030	E3030	63030	E3030	08083	08083	08083	E3030	05063	E3030	E3030	63030	08083	E3030	63030	E3030	E3030	E3030	62030	63030	08083	05003	E3060	62010	62010	62020	62020	62030	62050	62050	62050

Repair ate	\$19.000	\$5,000	\$120,000	\$10,000	\$12,000	Sto om	\$9,972	224,000	\$4,800	\$12,942,650	4 1 1 10 1 10 10 10 10
Deficien cy Repair Estimate											l
2043		L	L				L			\$377,763	
2042		ľ								\$42,100	
2041			\$20,000							\$422,900	
2040										\$1,389,700	
9039		l								\$601,750	
2038	\$19,000	Ī	\$20,000							\$554,220	
2037										\$1,797,700	
2036		Ī							\$4,800	\$55,500	
2035			\$20,000							\$239,250	
2034										\$32,590	
2083						Sto mo		\$24,000		\$1,808,075	
2032		Ī	\$20,000				T			\$221,500	
2031		I		\$10,000	\$12,000					\$301,800	
2030										\$551,160	
2029			\$20,000							\$438,250	
2028		ľ								\$422,00 \$5,000 \$38,400 \$37,50 \$5,000 \$38,400 \$374,20 \$38,400 \$374,50 \$38,400 \$30 \$408,20 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$30 \$3	ľ
2027							\$9,972			\$899,322	
3026			\$20,000							\$743,200	
2025										\$538,400	4000
2024		\$5,000								000'S\$ C	
2023		L								547,67	
Subtotal	\$19,000	\$5,000	\$20,000	\$10,000	\$12,000	940,000	1	\$24,000	\$4,800	. Unescalate.	4.4
Unit Cost *	\$950000	\$2,500.00	\$2.00	50,00000	\$6,000,00	00000000	\$18.00	\$4,000.00	\$400.00	Totals	March Street Albandal Bush and an arrange of the street of
Unit	3	Ą	3S	వ	ă	49		వ	వ		B44 1 . B . s . s
Ajjueno	2	2	10000	1	2	,	554	٥	12		
EAge RUL	30 15		m	60	**	10	-	10	7 13		
(EUL) EAR	25 30	19	0	20 22	20 22	30	+	20 80	20 7		
Life: (EL	-	olace 2	thoth.					l			
tion	Sports Apparatus, Basketball, Backto ard/Rim/Pole, Replace	4 Seats, Reg	Mayfield Surfaces, Chips Wood, 6" Depth Replace	Play Structure, Multipurpose, Small Replace	Play Structure, Mulitpurpose, Very Small, Replace	Play Structure, Multipurpose, Medium, Benjace	Fences & Gates, Fence, Chain Link 4*	Pole Light Fixture w/ Lamps, any type 20' High, w/ LED Replacement, Replace Anstall	Exterior Lighting, Wall Pack, any type w/ LED, 13 to 26 W, Replace		
Cost Description	Sports Apparatus, Basketball Backboard/Rim/Pole. Replace	Swing Set.	ces, Chips 1 Replace	re, Multipa Replace	Multipurp Replace	e, Multipuri Bentace	tes, fence. Replace	arew/ Lan	e Lighting, Wall Pack, any to LED, 13 to 26 W, Replace		
ð	Sports A	Structure,	yfieldSurfac	Play Structu	y Structure,	ay Structure	enoes & Ga	e Light Fixts vw/LED Rep	terior Ughfii UED, 13		
QI	0902080	6893358 Play Structure, Swing Set, 4 Seats, Replace	Play 5893400	P 6893328	Play 5893419	Pla CRO23C1	Γ.	Pole Light Fixture w/ Lamps, any type 20' 6902019 High, w/ LED Rophia cement, Replace Anstall	545 6902058		
Jeiformat Code	32050 69	62050 68	52050 68	62050 68	62050 68	03000	-	34050 69	G4050 69		
O Unit	62	Ğ	62	62	62	6	1 29	9	95		

Appendix H: Depleted Value Report



BARRE TOWN ELEMENTARY & MIDDLE SCHOOL

Depleted Value Index

58.2%

System	Sys	tem Contribution	System Value
Air Compressor	\$	6,543	\$ 7,270
Air Handler	\$	52,920	\$ 58,800
Air Handler	\$	31,360	\$ 58,800
Air Handler	\$	31,200	\$ 48,000
Air Handler	\$	70,000	\$ 84,000
Air Handler	\$	54,880	\$ 58,800
Air Handler	\$	18,333	\$ 22,000
Air Handler	\$	20,533	\$ 22,000
Athletic Surfaces & Courts	\$	13,417	\$ 16,100
Athletic Surfaces & Courts	\$	1,725	\$ 2,070
Boiler	\$	28,167	\$ 33,800
Boiler	\$	112,500	\$ 135,000
Boiler	\$	225,000	\$ 270,000
Casework	\$	41,667	\$ 50,000
Casework	\$	405,000	\$ 450,000
Distribution Panel	\$	9,000	\$ 10,000
Distribution Panel	\$	8,333	\$ 10,000
Distribution Panel	\$	6,125	\$ 7,000
Distribution Panel	\$	9,000	\$ 10,000
Distribution Panel	\$	12,800	\$ 32,000
Distribution Panel	\$	4,770	\$ 5,300
Distribution Panel	\$	2,567	\$ 5,500
Distribution Panel	\$	8,500	\$ 10,000
Distribution Panel	\$	11,900	\$ 14,000
Distribution Panel	\$	1,800	\$ 2,000
Distribution Panel	\$	1,936	\$ 2,200
Distribution Panel	\$	6,160	\$ 7,000
Distribution Panel	\$	4,505	\$ 5,300
Distribution Panel	\$	17,850	\$ 21,000
Door Hardware	\$	49,000	\$ 56,000
Drinking Fountain	\$	12,480	\$ 14,400
Electrical System	\$	217,000	\$ 620,000
Elevator Cab Finishes	\$	7,200	\$ 9,000
Elevator Controls	\$	3,250	\$ 5,000
Exhaust Fan	\$	3,600	\$ 4,800
Exhaust Fan	\$	6,480	\$ 7,200
Exhaust Fan	\$	747	\$ 1,400

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System	System Contribution	System Value
Exhaust Fan	\$ 1,800	\$ 2,400
Exhaust Fan	\$ 2,520	\$ 3,000
Exhaust Fan	\$ 2,933	\$ 11,000
Exterior Door	\$ 3,840	\$ 4,800
Exterior Door	\$ 19,933	\$ 29,900
Exterior Lighting	\$ 3,600	\$ 4,800
Exterior Walls	\$ -	\$ 6,000
Fan Coil Unit	\$ 2,304	\$ 15,360
Fan Coil Unit	\$ 1,754	\$ 5,010
Fences & Gates	\$ 9,972	\$ 9,972
Fire Alarm Panel	\$ 9,375	\$ 15,000
Fire Alarm System	\$ 232,500	\$ 465,000
Fire Suppression System	\$ 33,170	\$ 165,850
Flooring	\$ 5,930	\$ 17,790
Flooring	\$ 90,000	\$ 180,000
Flooring	\$ 11,094	\$ 12,900
Flooring	\$ 9,814	\$ 24,534
Flooring	\$ 1,500	\$ 6,000
Flooring	\$ 4,608	\$ 11,520
Flooring	\$ 8,448	\$ 11,520
Flooring	\$ 1,067	\$ 8,000
Flooring	\$ 37,800	\$ 54,000
Flooring	\$ 33,000	\$ 165,000
Flooring	\$ 43,125	\$ 172,500
Flooring	\$ 350,000	\$ 350,000
Flooring	\$ 1,350	\$ 2,250
Flooring	\$ -	\$ 15,600
Food Preparation Line	\$ 20,000	\$ 20,000
Foodservice Equipment	\$ 10,000	\$ 25,000
Foodservice Equipment	\$ 4,467	\$ 6,700
Foodservice Equipment	\$ 180	\$ 2,700
Foodservice Equipment	\$ -	\$ 4,500
Foodservice Equipment	\$ 880	\$ 2,200
Foodservice Equipment	\$ 14,333	\$ 21,500
Foodservice Equipment	\$ -	\$ 25,000
Foodservice Equipment	\$ 1,425	\$ 9,500
Foodservice Equipment	\$ 3,800	\$ 9,500
Foodservice Equipment	\$ 2,520	\$ 12,600
Foodservice Equipment	\$ -	\$ 1,700
Foodservice Equipment	\$ 460	\$ 4,600
Foodservice Equipment	\$ 700	\$ 7,000
Foodservice Equipment	\$ 2,530	\$ 4,600
Foodservice Equipment	\$ 920	\$ 4,600

				• • • • • •
System	Syste	em Contribution		System Value
Foodservice Equipment	\$	340	\$	1,700
Foodservice Equipment	\$	1,253	\$	9,400
Foodservice Equipment	\$	5,040	\$	6,300
Foodservice Equipment	\$	21,560	\$	24,500
Foodservice Equipment	\$	272	\$	1,700
Foodservice Equipment	\$	2,700	\$	3,600
Foodservice Equipment	\$	4,883	\$	6,300
Foodservice Equipment	\$	4,200	\$	5,600
Foodservice Equipment	\$	1,493	\$	3,200
Foodservice Equipment	\$	3,000	\$	15,000
Foodservice Equipment	\$	2,592	\$	7,200
Foodservice Equipment	\$	11,667	\$	14,000
Foodservice Equipment	\$	2,760	\$	4,600
Foodservice Equipment	\$	1,615	\$	1,700
Generator	\$	24,000	\$	40,000
Generator	\$	75,000	\$	150,000
HVAC System	\$	=	\$	775,000
Interior Door	\$	63,700	\$	98,000
Interior Lighting System	\$	348,750	\$	697,500
Overhead/Dock Door	\$	7,500	\$	15,000
Parking Lots	\$	27,540	\$	30,600
Parking Lots	\$	158,667	\$	238,000
Passenger Elevator	\$	8,250	\$	55,000
Play Structure	\$	3,500	\$	10,000
Play Structure	\$	4,000	\$	5,000
Play Structure	\$	10,400	\$	12,000
Play Structure	\$	37.333	\$	40,000
Playfield Surfaces	\$	16,667	\$	20,000
Plumbing System	\$	1,477,667	\$	1,705,000
Pole Light Fixture w/ Lamps	\$	20,000	\$	24,000
Radiator	\$	100,000	\$	120,000
Radiator	\$	5.760	\$	6.400
Residential Appliances	\$	1,500	\$	1,800
Roofing	\$	1,033,600	\$	1,292,000
Roofing	\$	11,550	\$	38,500
Roofing	\$	8,400	\$	16,800
Secondary Transformer	\$	9,143	\$	16,000
Secondary Transformer	\$	3,800	\$	7,600
Secondary Transformer	\$	3,350	\$	6,700
Secondary Transformer Secondary Transformer	\$	5,333	\$	10,000
-	\$	5,333	\$	6,700
Secondary Transformer	\$	8,533	\$	
Secondary Transformer			_	16,000
Secondary Transformer	\$	3,797	\$	6,700

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System	System Contribution	System Value
Shower	\$ 4,160	\$ 4,800
Sidewalk	\$ 11,807	\$ 25,300
Sink/Lavatory	\$ 2,000	\$ 2,500
Sink/Lavatory	\$ 14,080	\$ 17,600
Sink/Lavatory	\$ 693	\$ 800
Sink/Lavatory	\$ 1,680	\$ 2,100
Sink/Lavatory	\$ 427	\$ 1,600
Sink/Lavatory	\$ -	\$ 42,000
Sink/Lavatory	\$ 213	\$ 800
Sink/Lavatory	\$ 4,800	\$ 6,000
Sink/Lavatory	\$ 480	\$ 900
Split System	\$ 30,000	\$ 45,000
Split System	\$ -	\$ 75,600
Split System	\$ 36,000	\$ 45,000
Split System	\$ 10,200	\$ 10,200
Split System	\$ 4,080	\$ 10,200
Split System	\$ 2,267	\$ 3,400
Split System	\$ 6,800	\$ 8,000
Split System	\$ 2,760	\$ 13,800
Split System	\$ 4,080	\$ 6,800
Split System	\$ 36,000	\$ 60,000
Split System	\$ 1,560	\$ 5,200
Split System	\$ 55,000	\$ 220,000
Split System	\$ 6,300	\$ 9,000
Split System	\$ 4,000	\$ 4,000
Sports Apparatus	\$ 2,850	\$ 19,000
Sports Apparatus	\$ 6,333	\$ 19,000
Stair Treads	\$ 18,750	\$ 25,000
Supplemental Components	\$ 6,000	\$ 12,000
Suspended Ceilings	\$ 4,981	\$ 12,453
Suspended Ceilings	\$ 350,000	\$ 525,000
Suspended Ceilings	\$ 3,180	\$ 4,771
Toilet	\$ 52,953	\$ 61,100
Toilet Partitions	\$ 22,500	\$ 37,500
Unit Heater	\$ 3,400	\$ 8,500
Unit Ventilator	\$ -	\$ 7,400
Unit Ventilator	\$ -	\$ 18,000
Urinal	\$ -	\$ 17,600
Variable Frequency Drive	\$ -	\$ 14,000
Wall Finishes	\$ -	\$ 68,940
Wall Finishes	\$ -	\$ 348,750
Water Heater	\$ -	\$ 6,200
Water Heater	\$ -	\$ 4,800

	System		Syster	n Contribution	System Value
Window			\$	-	\$ 4,800
Window			\$	-	\$ 12,350
Window			\$	-	\$ 84,600
		Totals	\$	6,758,517	\$ 11,604,610

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