FACILITY CONDITION ASSESSMENT

prepared for

Richmond Public Schools
301 North Ninth Street
Richmond, VA 23219

John Marshall High School
4225 Old Brook Road
Richmond, VA 23227

PREPARED BY:
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BV PROJECT #:
166385.23R000-034.468

DATE OF REPORT:
May 23, 2024

ON SITE DATE:
February 20-22, 2024

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1. Executive Summary

Property Overview and Assessment Details

General Information	
Property Type	High school campus
Number of Buildings	1
Main Address	4225 Old Brook Road, Richmond, VA 23227
Site Developed	1959 Small renovations 1980
Outside Occupants / Leased Spaces	Small section is leased out to Adult Education Center
Date(s) of Visit	February 20-22, 2024
Management Point of Contact	Daniel Alu Project Engineer 800 Yard Street, Suite 115 Columbus, Ohio 43212 C: 614.949.1355 daniel.alu@gofmx.com
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AssetCalc Link	Full dataset for this assessment can be found at: https://www.assetcalc.net/

Significant/Systemic Findings and Deficiencies

Historical Summary

John Marshall High School was opened in 1959 and serves the surrounding Northside community. Over the years, enrollment at the school has dwindled away from the anticipated 1,500 students to now slightly over 500. As a result, many classrooms are vacant, and some restrooms have been repurposed as storage areas. The boy's locker room is currently under renovation for a new basketball team area.

Architectural

Short-term recommendations include replacement of the original antiquated windows of the school, in the interim many pieces of glazing have been replaced with Plexiglas. The brick façade is showing signs of potential settlement, with ladder cracking present throughout, yet the north courtyard shows more egregious areas with several large sections of brick have been cut out, and other sections display signs of bowing out. Asbestos may be present in the original building flooring; this should be investigated. For the rest of the architectural assets, typical lifecycle replacements of the interior and exterior finishes are budgeted and anticipated.

Mechanical, Electrical, Plumbing and Fire (MEPF)

The central boiler system utilizes air handlers and exhaust fans in mechanical penthouses in different zones. Excluding the cooling tower and chillers which were replaced within the past 8 years, most of the HVAC equipment is antiquated and likely original to construction and needs to be replaced. There is evidence of asbestos in the insulation of the HVAC piping system; the system is reported to have constant leaks, and suspected fungal growth was observed on several of the fan coil units in the classrooms. HVAC systems are controlled by the Building Automation System (BAS).

Domestic hot water is provided by gas water heaters. Much of the plumbing system fixtures and piping is original to build date and will require a full system replacement soon. There are reports of consistent leaks occurring in the pipe tunnels.

Electrical service has undergone some updates from initial Westinghouse infrastructure, with a small renovation occurring in 1980 and then again with new secondary transformers throughout in 2009. Panels and motor control centers which were not replaced in the last remodel, are likely due for replacement soon. The system would be considered undersized for today's typical classroom power usage, however with only 35% occupancy this is likely to not cause issues. The school does have essential emergency power from a medium sized diesel generator.

Fire suppression is currently limited to only fire extinguishers, the building would benefit from a full sprinkler install. The fire alarm system is fully addressable with strobes and pull stations. Lifecycle replacement of the majority of the MEPF equipment is anticipated.

Site

Parking lot asphalt is in poor condition with no visible striping and large sections of alligator cracking present. Sidewalks have areas of cracked sections and present trip hazards. The football field has a new LED scoreboard with a relatively new rubberized running track circulating the field. The parking lot pole lights have been retrofitted with LED lamps.

Recommended Additional Studies

See the *Systems Summary* tables in the latter sections of this report for recommended additional studies associated with suspected fungal growth, potential asbestosis issues, and structural issues at the main building.

Facility Condition Index (FCI)

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

FCI Ranges and Description	
0 – 5%	In new or well-maintained condition, with little or no visual evidence of wear or
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 mathematical values. The table below presents the current, 3-year, 5-year, and 10-year FCI's for each facility:

FCI Analysis | John Marshall High School / Main Building(1949)

Replacement Value	*Total SF*	*Cost/SF*
$ 92,377,600	*230,944*	*$ 400*

	Est Reserve Cost	FCI
Current	$ 2,577,400	**2.8 %**
3-Year	$ 11,662,100	12.6 %
5-Year	$ 17,684,500	19.1 %
10-Year	$ 29,332,500	31.8 %

Immediate Needs

ID	Location Description	UF Code	Description	Condition	Plan Type	Cost
7415012	Building Exterior	B2010	Exterior Walls, Brick Veneer, Replace	Poor	Performance/Integrity	$2,538,000
7415095	Boiler room	D2060	Air Compressor, Tank-Style, Replace	Failed	Performance/Integrity	$7,300
7415016	Kitchen	E1030	Foodservice Equipment, Slicer, Replace	Failed	Performance/Integrity	$3,200
7414974	Kitchen	E1030	Foodservice Equipment, Mixer, Tabletop, Replace	Failed	Performance/Integrity	$3,400
7415150	Throughout building	P2030	Engineering Study, Environmental, Asbestos (ACM) & Lead Base Paint (LBP), Evaluate/Report	Poor	Safety	$15,000
7414943	Classrooms	P2030	Consultant, Environmental, Analysis of Suspect Fungal Growth, Evaluate/Report	Poor	Safety	$3,500

7414999	Building exterior	P2030	Engineering Study, Structural, General Design, Design	Poor	Performance/Integrity	$7,000
Total (7 items)						**$2,577,400**

Site

ID	Location Description	UF Code	Description	Condition	Plan Type	Cost
7415007	Parking lot	G2020	Parking Lots, Pavement, Asphalt, Seal & Stripe	Poor	Performance/Integrity	$69,900
7415023	Walkways	G2030	Sidewalk, any pavement type, Sectional Repairs (per Man-Day), Repair	Poor	Performance/Integrity	$3,000
Total (2 items)						**$72,900**

Key Findings

Recommended Follow-up Study: Environmental, Analysis of Suspect Fungal Growth

Environmental, Analysis of Suspect Fungal Growth
Main Building John Marshall High School
Classrooms

Uniformat Code: P2030
Recommendation: **Evaluate/Report in 2024**

Priority Score: **90.9**

Plan Type: Safety

Cost Estimate: $3,500

**$$**$$

Suspected fungal growth present on fan coil units in several classrooms - AssetCALC ID: 7414943

Recommended Follow-up Study: Environmental, Asbestos (ACM) & Lead Base Paint (LBP)

Environmental, Asbestos (ACM) & Lead Base Paint (LBP)
Main Building John Marshall High School
Throughout building

Uniformat Code: P2030
Recommendation: **Evaluate/Report in 2024**

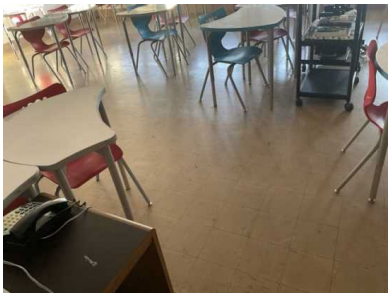
Priority Score: **90.9**

Plan Type: Safety

Cost Estimate: $15,000

**$$$**$

Asbestos has been reported to be present in pipe insulation, window framing, and flooring. These items will need to be abated. - AssetCALC ID: 7415150



Flooring in Poor condition.

Vinyl Tile (VCT), with Asbestos Abatement
Main Building John Marshall High School
Classrooms

Uniformat Code: C2030
Recommendation: **Replace in 2025**

Priority Score: **90.8**

Plan Type: Safety

Cost Estimate: $525,600

$$$$

There is some likelihood the flooring present in most of the classrooms contains asbestos. A consultant should be hired to either affirm or deny this possibility, and then abatement is recommended if the presence of asbestosis is confirmed. - AssetCALC ID: 7415033

Exterior Walls in Poor condition.

Brick Veneer
Main Building John Marshall High School
Building Exterior

Uniformat Code: B2010
Recommendation: **Replace in 2024**

Priority Score: **89.9**

Plan Type:
Performance/Integrity

Cost Estimate: $2,538,000

$$$$

Numerous sections of failed exterior brick veneer wall and bulging walls. - AssetCALC ID: 7415012

Glazing in Poor condition.

Any Type by SF
Main Building John Marshall High School
Building Exterior

Uniformat Code: B2020
Recommendation: **Replace in 2025**

Priority Score: **87.8**

Plan Type:
Performance/Integrity

Cost Estimate: $528,000

$$$$

Vast majority of windows are original single pane aluminum with issues. - AssetCALC ID: 7415152

Curtain Wall in Poor condition.

Aluminum-Framed System
John Marshall High School

Uniformat Code: B2010
Recommendation: **Replace in 2025**

Priority Score: **87.8**

Plan Type:
Performance/Integrity

Cost Estimate: $1,144,000

$$$$

Single pane glazing, cracked panels, and poorly insulated panels. - AssetCALC ID: 7523202

Sidewalk in Poor condition.

Any Pavement Type, Sectional Repairs (per Man-Day)
Site John Marshall High School Walkways

Uniformat Code: G2030
Recommendation: **Repair in 2024**

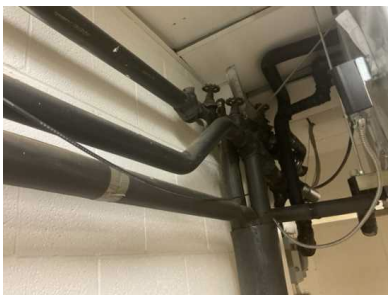
Priority Score: **85.9**

Plan Type:
Performance/Integrity

Cost Estimate: $3,000

$$$$

There are several large cracks and raised portions of concrete walkways around the site, some present serious, tripping hazards - AssetCALC ID: 7415023



HVAC System in Poor condition.

Hydronic Piping, 4-Pipe
Main Building John Marshall High School
Throughout building

Uniformat Code: D3050
Recommendation: **Replace in 2025**

Priority Score: **85.8**

Plan Type:
Performance/Integrity

Cost Estimate: $1,848,000

$$$$

Many leaks throughout the system. There is evidence of asbestos in original piping. - AssetCALC ID: 7415117

Parking Lots in Poor condition.

Pavement, Asphalt
Site John Marshall High School Parking lot

Uniformat Code: G2020
Recommendation: **Seal & Stripe in 2024**

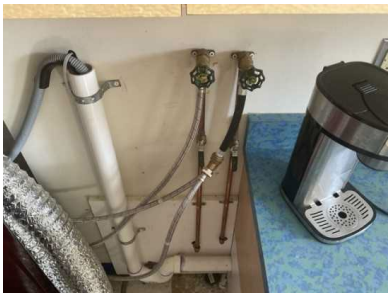
Priority Score: **84.9**

Plan Type:
Performance/Integrity

Cost Estimate: $69,900

$$$$

Striping is nonexistent throughout the majority of the lot and surface cracks require sealing. - AssetCALC ID: 7415007



Plumbing System in Poor condition.

Supply & Sanitary, Medium Density (excludes fixtures)
Main Building John Marshall High School
Throughout building

Uniformat Code: D2010
Recommendation: **Replace in 2026**

Priority Score: **84.7**

Plan Type:
Performance/Integrity

Cost Estimate: $2,540,900

$$$$

Frequent leaks and backups have been reported. Much of the piping is original to build. Full replacement is highly recommended. - AssetCALC ID: 7414995

Athletic Surfaces & Courts in Poor condition.

Tennis/Volleyball, 2-Color Surface
Site John Marshall High School Tennis Courts

Uniformat Code: G2050
Recommendation: **Seal & Stripe in 2025**

Priority Score: **82.8**

Plan Type:
Performance/Integrity

Cost Estimate: $37,500

$$$$

Faded and cracked surfaces - AssetCALC ID: 7415139

Air Compressor in Failed condition.

Tank-Style
Main Building John Marshall High School Boiler room

Uniformat Code: D2060
Recommendation: **Replace in 2024**

Priority Score: **81.9**

Plan Type: Performance/Integrity

Cost Estimate: $7,300

**$$**$$

Drive belt has snapped - AssetCALC ID: 7415095

Recommended Follow-up Study: Structural, General Design

Structural, General Design
Main Building John Marshall High School Building exterior

Uniformat Code: P2030
Recommendation: **Design in 2024**

Priority Score: **81.9**

Plan Type: Performance/Integrity

Cost Estimate: $7,000

**$$**$$

There appears to be major settling occurring along the brick veneer in the north courtyard. Some sections of bowed out brick have been cut out and removed, likely for investigating cause. - AssetCALC ID: 7414999

Exterior Fixture with Lamp in Poor condition.

Any Type, with LED Replacement
Main Building John Marshall High School Building Exterior

Uniformat Code: G4050
Recommendation: **Replace in 2025**

Priority Score: **81.8**

Plan Type: Performance/Integrity

Cost Estimate: $58,800

$$$$

Many lights do not work, and/or are broken - AssetCALC ID: 7414916

Suspended Ceilings in Poor condition.

Acoustical Tile (ACT)
Main Building John Marshall High School Main Building

Uniformat Code: C1070
Recommendation: **Replace in 2025**

Priority Score: **81.8**

Plan Type: Performance/Integrity

Cost Estimate: $39,600

**$$$**$

Several damaged ACT present throughout the building, particularly in classroom 119 - AssetCALC ID: 7414927

Fan Coil Unit in Poor condition.

Hydronic Terminal
Main Building John Marshall High School
Throughout building

Uniformat Code: D3050
Recommendation: **Replace in 2025**

Priority Score: **81.8**

Plan Type:
Performance/Integrity

Cost Estimate: $1,147,000

$$$$

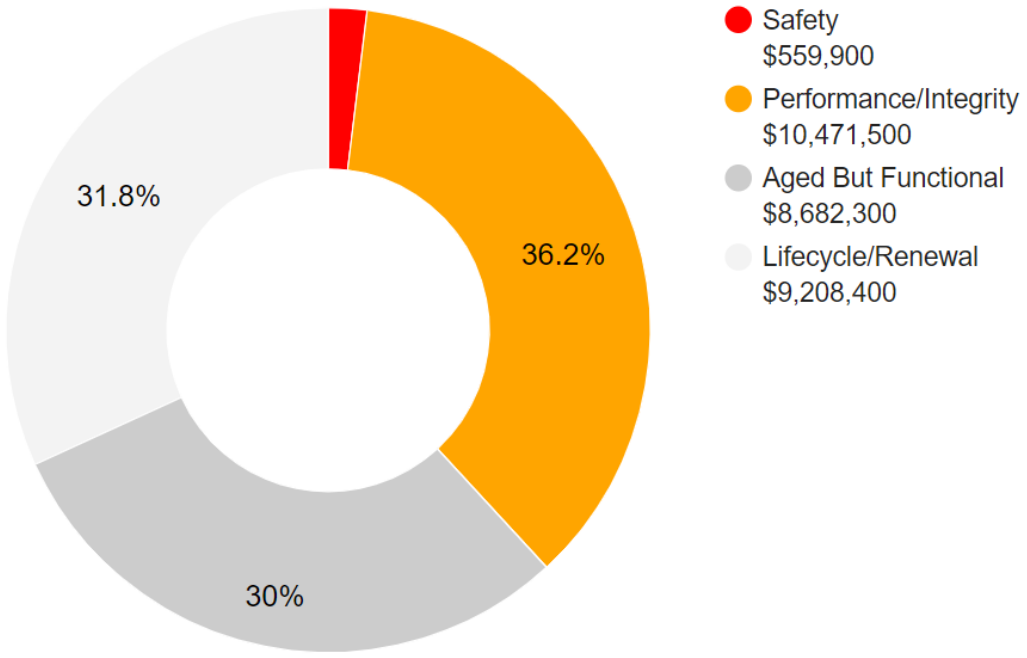
Antiquated. Leaks evident. Some units have suspected fungal growth. - AssetCALC ID: 7414933

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 and highest on the list below.

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, and/or other 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 neither deficient nor aged past EUL but for which future replacement or repair is anticipated and budgeted.

Plan Type Distribution (by Cost)



10-YEAR TOTAL: $28,922,100

2. Main Building

Building Systems Summary

Address	4225 Old Brook Road, Richmond, VA 23227	
Constructed/Renovated	1959/1980	
Building Area	230,994 SF	
Number of Stories	2 above grade with 1 below-grade basement levels (mechanical mezzanines are present but not included in the count)	
System	*Description*	*Condition*
Structure	Masonry bearing walls with concrete decks and supports below a concrete basement with concrete columns	Fair
Façade	Primary Wall Finish: Brick Secondary Wall Finish: Metal panels Windows: Aluminum (many replaced with plexiglass)	Poor
Roof	Primary: Flat construction with built-up finish Secondary: Flat construction with modified bituminous finish	Fair
Interiors	Walls: Painted CMU and gypsum board, and ceramic tile Floors: Carpet, VCT, ceramic tile, quarry tile, wood strip and terrazzo Ceilings: Painted gypsum board and ACT	Fair
Elevators	Passenger: 1 hydraulic car	Fair

Building Systems Summary

Plumbing	Distribution: Copper supply and cast iron waste & venting Hot Water: Gas water heaters with integral tanks Fixtures: Toilets, urinals, and sinks in all restrooms	Fair
HVAC	Central System: Boilers, chillers, air handlers, and cooling tower feeding fan coil, hydronic baseboard radiators and cabinet terminal units Supplemental components: Packaged units and suspended unit heaters Building Automation System (BAS)	Fair
Fire Suppression	Fire extinguishers and kitchen hood system	Fair
Electrical	Source & Distribution: Main switchboard with copper wiring Interior Lighting: Linear fluorescent, CFL, incandescent Exterior Building-Mounted 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 and laundry equipment, walk-thru metal detectors	Fair
Accessibility	Presently it does not appear an accessibility study is needed for this building. See the appendix for associated photos and additional information.	

Building Systems Summary

Additional Studies	The brick facade is in poor (and in some areas failed) condition. The north courtyard has areas of bricks bowing out from the building, several sections appear to have been cut out some time ago. There is also potential settlement cracking present throughout the façade. A professional engineer must be retained to analyze the existing condition, provide recommendations and, if necessary, estimate the scope and cost of any required repairs, including finishing the repairs in progress. The cost of this study is included in the cost tables. A budgetary cost allowance to replace the brick is also included, however due to the ambiguity of the problem, this estimated cost may not be accurate. There is suspected fungal growth present in ceiling tiles and on fan coil units throughout the facility. This can pose a safety and health concern. A professional consultant must be retained to analyze the existing condition, provide recommendations and, if necessary, estimate the scope and cost of any required remediation. The cost of the study is included in the cost tables. It was brought to attention that there is a high probability of asbestos located in numerous areas of the building to include but not exclusively: the frame sealing components of exterior glazing, insulation of plumbing and HVAC piping, and classroom VCT flooring. A professional consultant must be retained to analyze the existing condition, provide recommendations and, if necessary, estimate the scope and cost of any required abatement. The cost of the study is included in the cost tables. Due to the ambiguity of which assets end up returning positive for asbestos particles, cost for abatement can widely vary and current costs only represent the amount needed for replacement of classroom VCT flooring.
Areas Observed	The interior spaces were observed to gain a clear understanding of the facility's overall condition. Other areas accessed and assessed included the exterior equipment and assets directly serving the buildings, the exterior walls of the facility, and the roofs.
Key Spaces Not Observed	Areas of note that were either inaccessible or not observed for other reasons are listed here: ▪ Auditorium mechanical penthouse; confined space with no lights and exposed moving mechanical equipment ▪ HVAC and plumbing basement tunnels; confined space with no lights

The table below shows the anticipated costs by trade or building system over the next 20 years.

System Expenditure Forecast

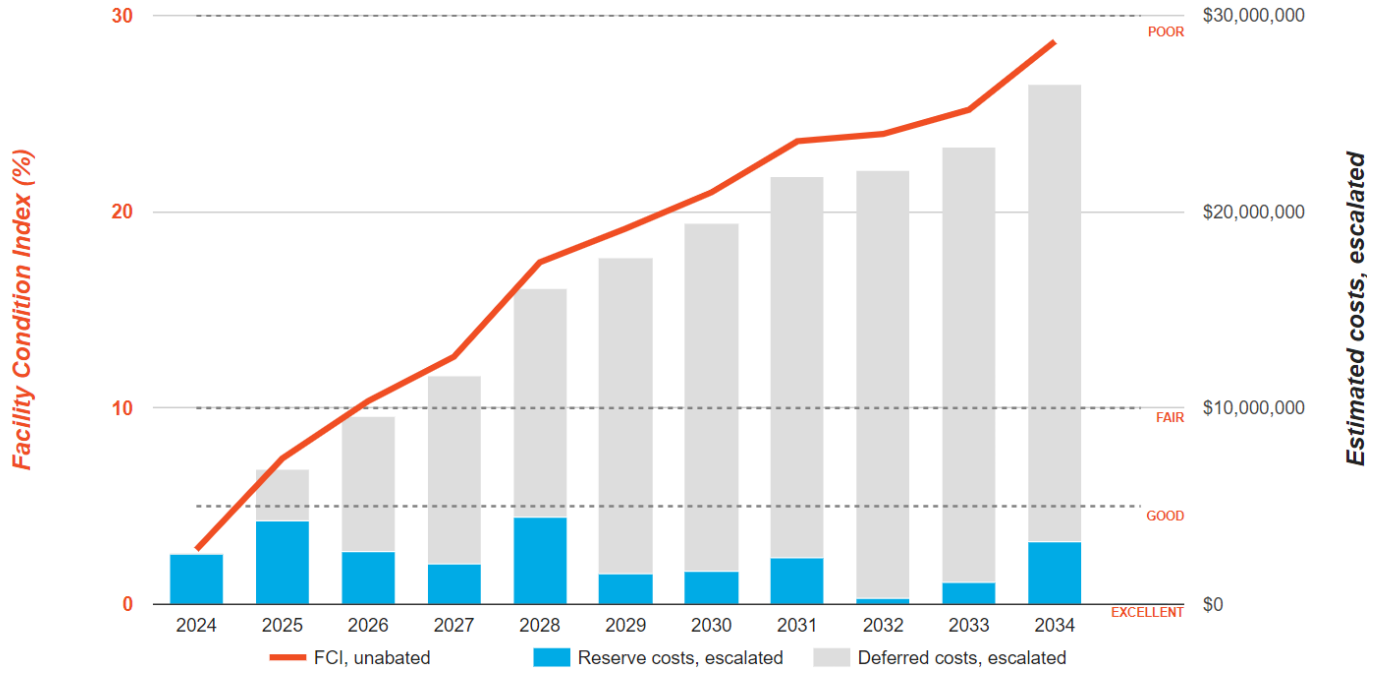
System	Immediate	Short Term (1-2 yr)	Near Term (3-5 yr)	Med Term (6-10 yr)	Long Term (11-20 yr)	TOTAL
Structure	-	-	-	-	$14,212,200	$14,212,200
Facade	$2,538,000	$543,800	$87,900	$2,400	-	$3,172,100
Roofing	-	-	$63,300	$5,723,700	-	$5,787,000
Interiors	-	$582,100	$3,991,600	$2,111,700	$2,221,400	$8,906,800
Conveying	-	$3,200	$65,600	-	$4,300	$73,000
Plumbing	$7,300	$2,695,700	$358,300	$273,500	$150,700	$3,485,500
HVAC	-	$3,084,800	$1,536,200	$942,300	$1,763,600	$7,327,000
Electrical	-	-	$863,600	$1,286,500	$290,100	$2,440,300
Fire Alarm & Electronic Systems	-	-	$677,800	$1,119,700	$2,204,300	$4,001,700
Equipment & Furnishings	$6,600	-	$433,800	$188,200	$712,200	$1,340,900
Site Development	-	$17,900	$40,900	-	$141,400	$200,200
Site Utilities	-	$60,600	-	-	-	$60,600
Follow-up Studies	$25,500	-	-	-	-	$25,500
TOTALS (3% inflation)	**$2,577,400**	**$6,988,100**	**$8,119,000**	**$11,648,100**	**$21,700,200**	**$51,032,800**

NEEDS OVER TIME: The vertical blue bars in the graphic below represent the year-by-year needs identified for the facility. The orange line forecasts what would happen to the FCI (left Y axis) over time, assuming zero capital expenditures over the next ten years. The dollar amounts allocated for each year are associated with the values along the right Y axis.

Needs by Year with Unaddressed FCI Over Time

FCI Analysis: John Marshall High School Main Building

Replacement Value: $92,377,600 Inflation Rate: 3.0% Average Needs per Year: $2,408,100



Main Building: Photographic Overview

1 - FRONT ELEVATION

2 - LEFT ELEVATION

3 - REAR ELEVATION

4 – BUILT-UP ROOF

5 – MODIFIED BITUMEN ROOF

6 – BRICK FACADE

7 - LIBRARY

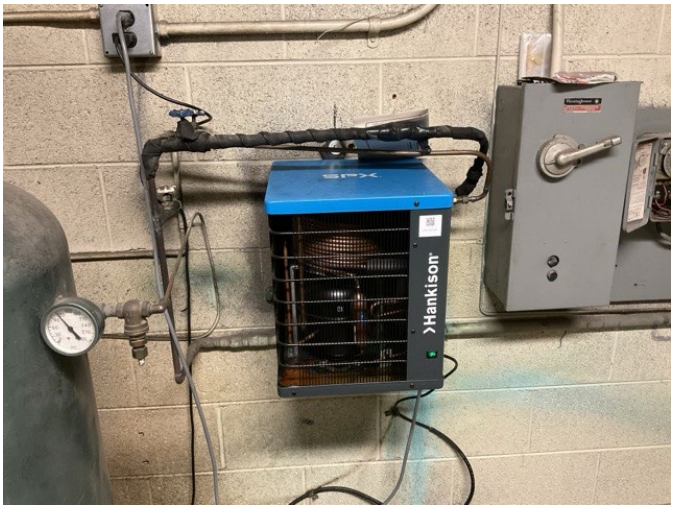
8 – TYPICAL CLASSROOM

9 – ELEVATOR

10 – GAS WATER HEATER

11 – DOMESTIC BACKFLOW PREVENTER

12 – PLUMBING AND HVAC PIPE TUNNELS



13 – COMPRESSED AIR DRYER

14 – AIR COMPRESSOR

15 - MAIN MECHANICAL ROOM - HVAC BOILERS

16 – COOLING TOWERS

17 - MAIN ELECTRICAL SWITCHBOARD

18 – VARIABLE FREQUENCY DRIVE

3. Site Summary

Site Information		
Site Area	31.3 acres (estimated)	
Parking Spaces	175 total spaces all in open lots; 8 of which are accessible.	
System	*Description*	*Condition*
Pavement/Flatwork	Asphalt lots with limited areas of concrete aprons and pavement and adjacent concrete sidewalks, curbs, ramps, and stairs	Poor
Site Development	Building-mounted and property entrance signage, chain link fencing Sports fields and courts with bleachers, dugouts, and fencing Limited park benches, picnic tables, trash receptacles	Fair
Landscaping and Topography	Significant landscaping features including lawns, trees, and bushes Irrigation not present Low site slopes throughout	Fair
Utilities	Municipal water and sewer Local utility-provided electric and natural gas	Fair
Site Lighting	Pole-mounted: LED	Good
Ancillary Structures	Storage shed	Fair

Site Information	
Site Accessibility	Presently it does not appear an accessibility study is needed for the exterior site areas. See the appendix for associated photos and additional information.
Site Additional Studies	No additional studies are currently recommended for the exterior site areas.
Site Areas Observed	The exterior areas within the property boundaries were observed to gain a clear understanding of the site's overall condition.
Site Key Spaces Not Observed	All key areas of the site were accessible and observed.

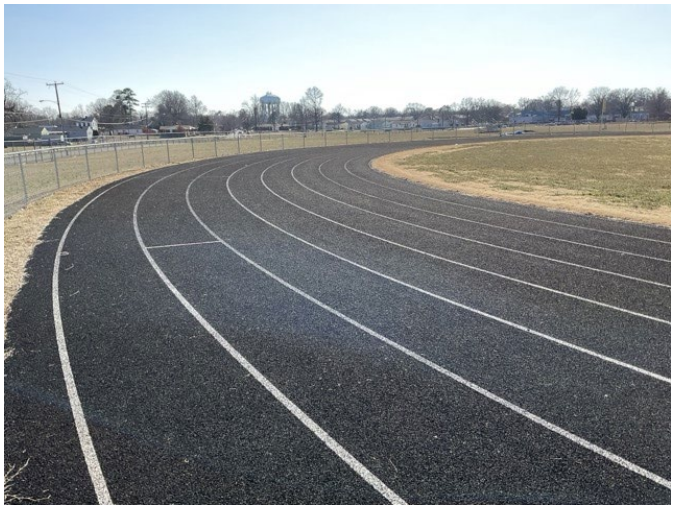
The table below shows the anticipated costs by trade or site system over the next 20 years.

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
Equipment & Furnishings	-	-	-	-	$633,000	$633,000
Special Construction & Demo	-	-	-	-	$13,800	$13,800
Site Development	-	$38,600	$16,700	$321,500	$533,600	$910,500
Site Pavement	$72,900	-	$711,100	$93,900	$235,100	$1,113,000
Site Utilities	-	-	-	-	$26,200	$26,200
TOTALS (3% inflation)	**$72,900**	**$38,600**	**$727,900**	**$415,400**	**$1,441,800**	**$2,696,600**

Site: Photographic Overview

1 - MAIN PARKING AREA



2 – RUBBER RUNNING TRACK

3 – ROBUST LED SCOREBOARD

4 – PYLON DIGITAL DISPLAY SIGN

5 – STORAGE SHED

6 – FOOTBALL GOAL POST

4. 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 require 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 material included 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 assessment. A full measured ADA survey would be required to identify more 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 included in the dataset
- For any “none” boxes checked or reference to “no issues” identified, that alone does not guarantee full compliance

No detailed follow-up accessibility study is currently recommended since no major or moderate issues were identified at the subject site. It appears many retrofits were completed after the 2007 lawsuit. Reference the appendix for specific data, photos, and tables or checklists associated with this limited accessibility survey.

5. 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 in order 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.

6. 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 system or component 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.

7. Certification

Richmond Public Schools (the Client) retained Bureau Veritas to perform this Facility Condition Assessment in connection with its continued operation of John Marshall High School, 4225 Old Brook Road, Richmond, VA 23227, 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.

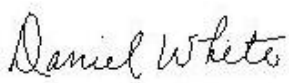
No testing, exploratory probing, dismantling or operating of equipment or in-depth studies were performed unless specifically required under the *Purpose and Scope* section of this report. This assessment did not include engineering calculations to determine the adequacy of the Property’s original design 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 for and is exclusively for the use and benefit of the Client identified on the cover page of this report. The purpose for which this report shall be used shall be limited to the use as stated in the contract between the client and Bureau Veritas.

This report, or any of the information contained therein, is not for the use or benefit of, nor may it be relied upon by any other person or entity, for any purpose without the advance written consent of Bureau Veritas. Any reuse or distribution without such consent shall be at the client's or recipient's sole risk, without liability to Bureau Veritas.

Prepared by: Jesse Azaret,
Project Manager

Reviewed by:



Daniel White,
Technical Report Reviewer for
Bill Champion,
Program Manager
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800.733.0660 x7296234

8. Appendices

Appendix A: Site Plan(s)
Appendix B: Pre-Survey Questionnaire(s)
Appendix C: Accessibility Review and Photos
Appendix D: Component Condition Report
Appendix E: Replacement Reserves
Appendix F: Equipment Inventory List

Appendix A:
Site Plan(s)

Site Plan

Project Number	Project Name
166385.24R000-034.468	John Marshall High School
Source	**On-Site Date**
Google	February 20-22, 2024

BUREAU VERITAS

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Appendix B:
Pre-Survey Questionnaire(s)

Bureau Veritas Facility Condition Assessment: Pre-Survey Questionnaire

Building / Facility Name: John Marshall High School

Name of person completing form: Ronald Hathaway

Title / Association with property: Director of Facilities

Length of time associated w/ property: 30 years

Date Completed: February 12, 2024

Phone Number: 804-325-0740

Method of Completion: Electronic

Directions: Please answer all questions to the best of your knowledge and in good faith. Please provide additional details in the Comments column, or backup documentation for any ***Yes*** responses.

Data Overview		Response		
1	Year/s constructed / renovated	1959		
2	Building size in SF	230994		
3	Major Renovation/Rehabilitation		Year	Additional Detail
		Façade	1959	Brick
		Roof		Tar and Gravel, roll roofing
		Interiors	1959	VAT tile, terrazzo, CMU, Sheetrock, drop ceilings, gym wood floors
		HVAC	1980/2017	Chillers replaced in 2016, cooling tower replaced in 2020
		Electrical	1959/1980	
		Site Pavement		Asphalt
		Accessibility	2007	Other than the improvements after the 2007 ADA lawsuit, none

Question		Response
4	List other significant capital improvements (focus on recent years; provide approximate date).	Chillers replaced in 2016, cooling tower replaced in 2020
5	List any major capital expenditures planned/requested for the next few years. Have they been budgeted?	Eliminate pneumatic controls, upgrade energy management platform, replace building air handlers, fan coil units and boilers. No money in the budget for these projects.
6	Describe any on-going extremely problematic, historically chronic, or immediate facility needs.	Ongoing plumbing leaks in the tunnels, HVAC piping leaks, single pane windows metal frames many replaced with plexiglass, window glazing asbestosis, waterproofing contains asbestosis

Mark the column corresponding to the appropriate response. Please provide additional details in the Comments column, or backup documentation for any **Yes** responses. (**NA** indicates "*Not Applicable*", **Unk** indicates *"Unknown"*)

	Question	Response				Comments
		Yes	No	Unk	NA	
7	Are there any problems with foundations or structures, like excessive settlement?	X				Courtyard veneer wall separation
8	Are there any wall, window, basement or roof leaks?	X				In the science area
9	Has any part of the facility ever contained visible suspect mold growth, or have there been any indoor air quality or mold related complaints from occupants?	X				Molded ceiling tiles and pipe insulation caused by leaks in the building. Remediated when the repairs are completed.
10	Are your elevators unreliable, with frequent service calls?	X				
11	Are there any plumbing leaks, water pressure, or clogging/back-up problems?	X				Ongoing plumbing leaks in the tunnels, HVAC piping leaks
12	Have there been any leaks or pressure problems with natural gas, HVAC supply/return lines, or steam service?		X			
13	Are any areas of the facility inadequately heated, cooled or ventilated? Any poorly insulated areas?	X				Original insulation in 1959 exterior classrooms, system design differs from 2024 new building design temperatures
14	Is the electrical service outdated, undersized, or otherwise problematic?					
15	Are there any problems or inadequacies with exterior lighting?		X			
16	Is site/parking drainage inadequate, with excessive ponding or other problems?		X			
17	Are there any other unresolved construction defects or significant issues/hazards at the property that have not yet been identified above?		X			None other than the courtyard structural wall
18	ADA: Has an accessibility study been performed at the site? If so, indicate when.	X				Other than the improvements after the 2007 ADA lawsuit, none
19	ADA: If a study has occurred, have the associated recommendations been addressed? In full or in part?	X				
20	ADA: Have there been regular complaints about accessibility issues, or associated previous or pending litigation?		X			

Appendix C:
Accessibility Review and Photos

Visual Checklist - 2010 ADA Standards for Accessible Design

Property Name: John Marshall High School

BV Project Number: 166385.24R000-034.468

Abbreviated Accessibility Checklist					
Facility History and Interview					
	Question	Yes	No	Unk	Comments
1	Has an accessibility study been previously performed? If so, when?	X			
2	Have any ADA improvements been made to the property since original construction? Describe.	X			Updates in response to lawsuit
3	Has building management reported any accessibility-based complaints or litigation?	X			2007 lawsuit

Abbreviated Accessibility Checklist

Parking

OVERVIEW OF ACCESSIBLE PARKING AREA

CLOSE-UP OF STALL

	Question	Yes	No	NA	Comments
1	Does the required number of standard ADA designated spaces appear to be provided ?	X			
2	Does the required number of van-accessible designated spaces appear to be provided ?	X			
3	Are accessible spaces on the shortest accessible route to an accessible building entrance ?	X			
4	Does parking signage include the International Symbol of Accessibility ?	X			
5	Does each accessible space have an adjacent access aisle ?	X			
6	Do parking spaces and access aisles appear to be relatively level and without obstruction ?	X			

Abbreviated Accessibility Checklist

Exterior Accessible Route

ACCESSIBLE RAMP

CURB CUT

	Question	Yes	No	NA	Comments
1	Is an accessible route present from public transportation stops and municipal sidewalks on or immediately adjacent to the property ?	X			
2	Does a minimum of one accessible route appear to connect all public areas on the exterior, such as parking and other outdoor amenities, to accessible building entrances ?	X			
3	Are curb ramps present at transitions through raised curbs on all accessible routes?	X			
4	Do curb ramps appear to have compliant slopes for all components ?	X			
5	Do ramp runs on an accessible route appear to have compliant slopes ?	X			
6	Do ramp runs on an accessible route appear to have a compliant rise and width ?	X			

7	Do ramps on an accessible route appear to have compliant end and intermediate landings ?	X			
8	Do ramps and stairs on an accessible route appear to have compliant handrails?	X			
9	For stairways that are open underneath, are permanent barriers present that prevent or discourage access?	X			

Abbreviated Accessibility Checklist

Building Entrances

MAIN ENTRANCE

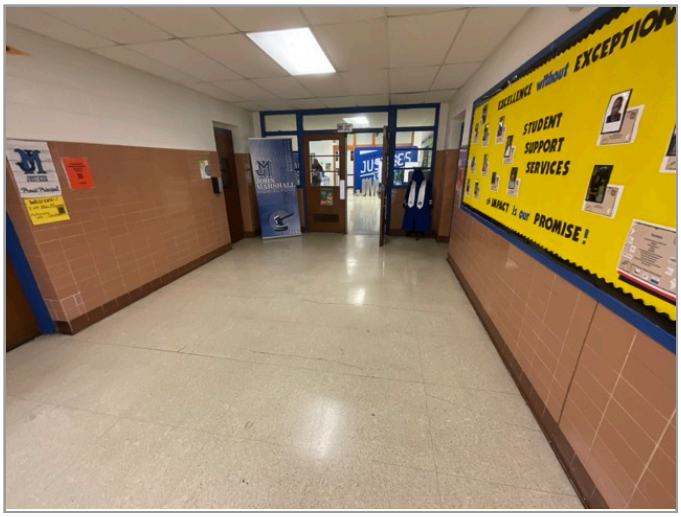
ADDITIONAL ENTRANCE

	Question	Yes	No	NA	Comments
1	Do a sufficient number of accessible entrances appear to be provided ?	X			
2	If the main entrance is not accessible, is an alternate accessible entrance provided?			X	
3	Is signage provided indicating the location of alternate accessible entrances ?			X	
4	Do doors at accessible entrances appear to have compliant maneuvering clearance area on each side ?	X			
5	Do doors at accessible entrances appear to have compliant hardware ?	X			
6	Do doors at accessible entrances appear to have a compliant clear opening width ?	X			

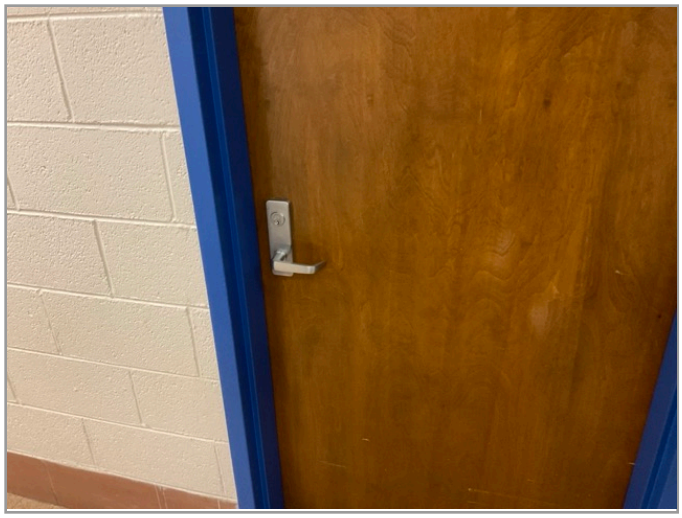
7	Do pairs of accessible entrance doors in series appear to have the minimum clear space between them ?			X	
8	Do thresholds at accessible entrances appear to have a compliant height ?	X			

Abbreviated Accessibility Checklist

Interior Accessible Route



ACCESSIBLE INTERIOR PATH



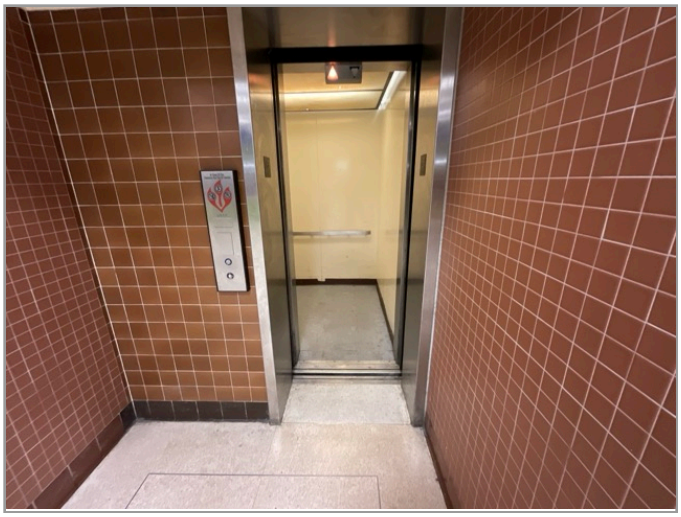
DOOR HARDWARE

	Question	Yes	No	NA	Comments
1	Does an accessible route appear to connect all public areas inside the building ?	X			
2	Do accessible routes appear free of obstructions and/or protruding objects ?	X			
3	Do ramps on accessible routes appear to have compliant slopes ?	X			
4	Do ramp runs on an accessible route appear to have a compliant rise and width ?	X			
5	Do ramps on accessible routes appear to have compliant end and intermediate landings ?	X			
6	Do ramps on accessible routes appear to have compliant handrails ?	X			

7	Are accessible areas of refuge and the accessible means of egress to those areas identified with accessible signage ?	X			
8	Do public transaction areas have an accessible, lowered service counter section ?	X			
9	Do public telephones appear mounted with an accessible height and location ?			X	
10	Do doors at interior accessible routes appear to have compliant maneuvering clearance area on each side ?	X			
11	Do doors at interior accessible routes appear to have compliant hardware ?	X			
12	Do non-fire hinged, sliding, or folding doors on interior accessible routes appear to have compliant opening force ?	X			
13	Do doors on interior accessible routes appear to have a compliant clear opening width ?	X			

Abbreviated Accessibility Checklist

Elevators



LOBBY LOOKING AT CAB

IN-CAB CONTROLS

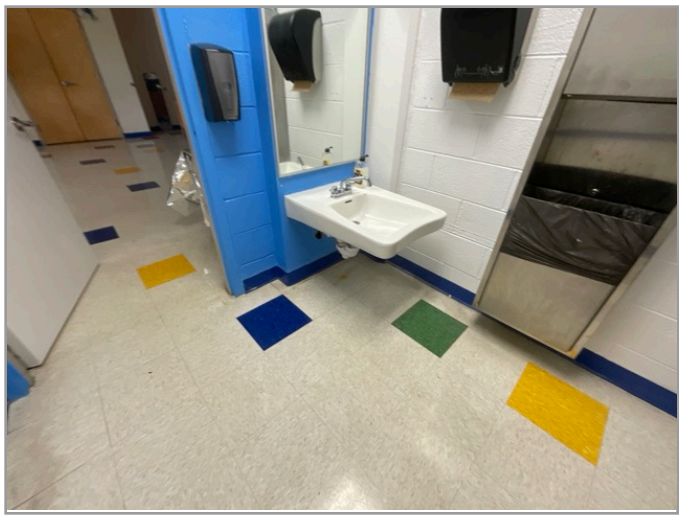
	Question	Yes	No	NA	Comments
1	Are hallway call buttons configured with the “UP” button above the “DOWN” button?			X	
2	Is accessible floor identification signage present on the hoistway sidewalls on each level ?	X			
3	Do the elevators have audible and visual arrival indicators at the lobby and hallway entrances?	X			
4	Do the elevator hoistway and car interior appear to have a minimum compliant clear floor area ?	X			
5	Do the elevator car doors have automatic re-opening devices to prevent closure on obstructions?	X			
6	Do elevator car control buttons appear to be mounted at a compliant height ?	X			

7	Are tactile and Braille characters mounted to the left of each elevator car control button ?	✕			
8	Are audible and visual floor position indicators provided in the elevator car?	✕			
9	Is the emergency call system on or adjacent to the control panel and does it not require voice communication ?	✕			

Abbreviated Accessibility Checklist

Public Restrooms

TOILET STALL OVERVIEW



SINK, FAUCET HANDLES AND ACCESSORIES

	Question	Yes	No	NA	Comments
1	Do publicly accessible toilet rooms appear to have a minimum compliant floor area ?	X			
2	Does the lavatory appear to be mounted at a compliant height and with compliant knee area ?	X			
3	Does the lavatory faucet have compliant handles ?	X			
4	Is the plumbing piping under lavatories configured to protect against contact ?	X			
5	Are grab bars provided at compliant locations around the toilet ?	X			
6	Do toilet stall doors appear to provide the minimum compliant clear width ?	X			

7	Do toilet stalls appear to provide the minimum compliant clear floor area ?	✕			
8	Where more than one urinal is present in a multi-user restroom, does minimum one urinal appear to be mounted at a compliant height and with compliant approach width ?	✕			
9	Do accessories and mirrors appear to be mounted at a compliant height ?	✕			

Appendix D:
Component Condition Report

Component Condition Report | John Marshall High School / Main Building

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
Structure						
A1010	Throughout	Fair	Foundation System, Concrete or CMU Walls w/ Continuous Footings	11,676 LF	20	7456106
A2010	Throughout building	Fair	Basement Wall, Concrete, Concrete	151,500 SF	30	7414964
B1010	Throughout	Fair	Structural Framing, Masonry (CMU) Bearing Walls	230,994 SF	20	7456105
Facade						
B2010	Building Exterior	Poor	Exterior Walls, Brick Veneer	94,000 SF	0	7415012
B2020	Building Exterior	Poor	Glazing, any type by SF	9,600 SF	1	7415152
B2020	Theatres	Fair	Screens & Shutters, Rolling Security Shutter, 55 to 100 SF	1	6	7415045
B2050	Building Exterior	Fair	Exterior Door, Steel, Standard	134	3	7415073
Roofing						
B3010	Roof	Fair	Roofing, Modified Bitumen	1,250 SF	10	7414988
B3010	Roof	Fair	Roofing, Built-Up	150,250 SF	10	7415044
B3020	Roof	Fair	Roof Appurtenances, Gutters & Downspouts, Aluminum w/ Fittings	3,000 LF	10	7414983
B3060	Gymnasium Roof	Fair	Roof Skylight, per unit, up to 20 SF	42	5	7415151
Interiors						
C1030	Throughout building	Fair	Interior Door, Wood, Solid-Core	387	7	7414915
C1070	Main Building	Poor	Suspended Ceilings, Acoustical Tile (ACT)	11,300 SF	1	7414927
C1070	Throughout building	Fair	Suspended Ceilings, Acoustical Tile (ACT)	197,000 SF	6	7414966
C1090	Throughout building	Fair	Lockers, Steel-Baked Enamel, 12" W x 15" D x 72" H	1,500	5	7414997
C1090	Adult Education Center	Good	Toilet Partitions, Plastic/Laminate	3	15	7415054
C1090	Restrooms	Fair	Toilet Partitions, Plastic/Laminate	67	10	7415059
C2010	Restrooms	Fair	Wall Finishes, Ceramic Tile	19,000 SF	5	7415000
C2010	Adult Education Center	Good	Wall Finishes, Ceramic Tile	1,000 SF	35	7414973
C2010	Throughout building	Fair	Wall Finishes, any surface, Prep & Paint	382,500 SF	6	7415100

Component Condition Report | John Marshall High School / Main Building

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
C2030	Adult Education Center	Good	Flooring, Ceramic Tile	500 SF	35	7414976
C2030	Cafeteria	Fair	Flooring, Quarry Tile	29,400 SF	4	7415013
C2030	Classrooms	Poor	Flooring, Vinyl Tile (VCT), w/ Asbestos Abatement	65,700 SF	1	7415033
C2030	Restrooms	Fair	Flooring, Ceramic Tile	22,600 SF	4	7415063
C2030	Gymnasium	Fair	Flooring, Maple Sports Floor, Refinish	15,800 SF	5	7414946
C2030	Main Building	Fair	Flooring, Terrazzo	67,900 SF	4	7415002
C2030	Throughout building	Fair	Flooring, Carpet, Commercial Standard	24,900 SF	3	7415021
C2050	Kitchen	Fair	Ceiling Finishes, any flat surface, Prep & Paint	18,100 SF	5	7415022
Conveying						
D1010	Elevator	Fair	Elevator Cab Finishes, Economy	1	2	7414992
D1010	Elevator	Fair	Passenger Elevator, Hydraulic, 2 Floors, Renovate	1	3	7415118
D1010	Elevator	Fair	Elevator Controls, Automatic, 1 Car	1	3	7415089
Plumbing						
D2010	Girls Locker Room	Fair	Shower, Enameled Steel	25	6	7414982
D2010	Tunnels	Fair	Water Heater, Electric, Commercial (12 kW)	1	3	7415124
D2010	Kitchen	Fair	Sink/Lavatory, Commercial Kitchen, 2-Bowl	2	10	7415037
D2010	Boiler room	Fair	Backflow Preventer, Domestic Water	1	12	7414926
D2010	Kitchen	Fair	Sink/Lavatory, Service Sink, Floor	1	8	7415131
D2010	Kitchen	Fair	Sink/Lavatory, Commercial Kitchen, 3-Bowl	2	13	7414931
D2010	Restrooms	Fair	Toilet, Residential Water Closet	2	16	7415062
D2010	Boiler room	Fair	Water Heater, Gas, Commercial (200 MBH)	1	3	7414989
D2010	Classrooms	Fair	Sink/Lavatory, Vanity Top, Solid Surface or Vitreous China	39	3	7415075
D2010	Adult Education Center	Good	Urinal, Standard	1	25	7415053
D2010	Restrooms	Fair	Toilet, Commercial Water Closet	68	7	7415153
D2010	Restrooms	Fair	Urinal, Standard	39	7	7415102

Component Condition Report | John Marshall High School / Main Building

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
D2010	Throughout building	Good	Drinking Fountain, Wall-Mounted, Single-Level	15	11	7415049
D2010	Adult Education Center	Good	Sink/Lavatory, Wall-Hung, Vitreous China	4	25	7414939
D2010	Boiler room	Fair	Backflow Preventer, Domestic Water	1	12	7415109
D2010	Science Classrooms	Fair	Emergency Plumbing Fixtures, Eye Wash & Shower Station	2	3	7415082
D2010	Boiler room	Good	Water Heater, Gas, Commercial (200 MBH)	1	14	7415123
D2010	Throughout building	Poor	Plumbing System, Supply & Sanitary, Medium Density (excludes fixtures)	230,994 SF	0	7414995
D2010	Boys Locker Room	Fair	Shower, Ceramic Tile	46	3	7415113
D2010	Restrooms	Fair	Sink/Lavatory, Wall-Hung, Vitreous China	73	3	7414936
D2010	Adult Education Center	Good	Toilet, Commercial Water Closet	3	25	7414970
D2010	Throughout building	Fair	Sink/Lavatory, Vanity Top, Stainless Steel	35	12	7414993
D2010	Utility closet	Fair	Sink/Lavatory, Service Sink, Wall-Hung	10	3	7415034
D2010	Throughout building	Fair	Sink/Lavatory, Vanity Top, Solid Surface or Vitreous China	2	4	7415146
D2030	Boiler room	Fair	Pump, Sump	1	7	7415080
D2060	Boiler room	Fair	Air Compressor, Tank-Style	1	7	7415052
D2060	Boiler room	Fair	Air Compressor, Tank-Style	1	3	7415042
D2060	Boiler room	Good	Supplemental Components, Compressed Air Dryer, Process Support	1	16	7415024
D2060	Boiler room	Failed	Air Compressor, Tank-Style	1	0	7415095
HVAC						
D3020	Gym Mechanical Room	Fair	Unit Heater, Hydronic	1	5	7415130
D3020	Boiler room	Fair	Unit Heater, Hydronic	3	3	7415069
D3020	Boiler room	Fair	Boiler Supplemental Components, Expansion Tank	1	3	7414952
D3020	Cafeteria Mechanical Room	Fair	Unit Heater, Hydronic	1	3	7415028
D3020	Boiler room	Fair	Boiler Supplemental Components, Expansion Tank	1	16	7415050
D3020	Boiler room	Good	Boiler Supplemental Components, Chemical Feed System	1	12	7414980
D3020	Boiler room	Fair	Boiler Supplemental Components, Expansion Tank	1	16	7415017

Component Condition Report | John Marshall High School / Main Building

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
D3020	Boiler room	Fair	Boiler, Gas, HVAC	1	4	7415006
D3020	Throughout building	Fair	Radiator, Hydronic, Baseboard (per LF)	275 LF	3	7414944
D3020	Auditorium Mechanical Room	Fair	Unit Heater, Hydronic	1	5	7415076
D3020	Gym Mechanical Room	Fair	Unit Heater, Hydronic	1	5	7414934
D3020	Boiler room	Fair	Boiler, Gas, HVAC	1	4	7415068
D3020	Chiller Room	Fair	Unit Heater, Electric	1	9	7415120
D3020	Office Mechanical Room	Fair	Unit Heater, Hydronic	1	5	7415145
D3020	Boiler room	Fair	Boiler Supplemental Components, Expansion Tank	1	3	7415138
D3030	Chiller Room	Good	Chiller, Water-Cooled	1	17	7414984
D3030	Building exterior	Good	Cooling Tower, (Typical) Open Circuit	1	21	7414972
D3030	Chiller Room	Good	Chiller, Water-Cooled	1	17	7415046
D3030	Building exterior	Good	Cooling Tower, (Typical) Open Circuit	1	21	7415014
D3050	Throughout building	Poor	Fan Coil Unit, Hydronic Terminal	148	1	7414933
D3050	Gym Mechanical Room	Fair	Air Handler, Interior AHU, Easy/Moderate Access	1	3	7415105
D3050	Office Mechanical Room	Fair	Air Handler, Interior AHU, Easy/Moderate Access	1	3	7415122
D3050	Gym Mechanical Room	Fair	Air Handler, Interior AHU, Easy/Moderate Access	1	3	7414960
D3050	Auditorium Mechanical Room	Fair	Air Handler, Interior AHU, Easy/Moderate Access	1	3	7415048
D3050	Cafeteria Mechanical Room	Fair	Air Handler, Interior AHU, Easy/Moderate Access	1	3	7415036
D3050	Boiler room	Fair	Pump, Distribution, HVAC Heating Water	1	4	7415072
D3050	Throughout building	Poor	HVAC System, Hydronic Piping, 4-Pipe	230,994 SF	1	7415117
D3050	Office Mechanical Room	Fair	Air Handler, Interior AHU, Easy/Moderate Access	1	3	7415133
D3050	Boiler room	Fair	Pump, Distribution, HVAC Heating Water	1	4	7414963
D3050	South Courtyard	Fair	Packaged Unit, RTU, Pad or Roof-Mounted	1	10	7414965
D3050	South Courtyard	Fair	Packaged Unit, RTU, Pad or Roof-Mounted	1	10	7414991
D3050	Gym Mechanical Room	Fair	Air Handler, Interior AHU, Easy/Moderate Access	1	3	7415097

Component Condition Report | John Marshall High School / Main Building

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
D3050	Boiler room	Good	Pump, Distribution, HVAC Chilled or Condenser Water	1	17	7414985
D3050	Roof	Fair	Packaged Unit, RTU, Pad or Roof-Mounted	1	9	7415086
D3050	Boiler room	Good	Pump, Distribution, HVAC Chilled or Condenser Water	1	17	7415009
D3050	Boiler room	Good	Pump, Distribution, HVAC Chilled or Condenser Water	1	17	7414935
D3050	Gym Mechanical Room	Fair	Air Handler, Interior AHU, Easy/Moderate Access	1	3	7415116
D3050	Office Mechanical Room	Fair	Air Handler, Interior AHU, Easy/Moderate Access	1	3	7415119
D3050	Boiler room	Good	Pump, Distribution, HVAC Chilled or Condenser Water	1	17	7414922
D3050	Auditorium Mechanical Room	Fair	Air Handler, Interior AHU, Easy/Moderate Access	1	3	7415096
D3050	Throughout building	Fair	HVAC System, Ductwork, Low Density	230,994 SF	7	7415108
D3050	Auditorium Mechanical Room	Fair	Air Handler, Interior AHU, Easy/Moderate Access	1	3	7415057
D3050	South Courtyard	Fair	Packaged Unit, RTU, Pad or Roof-Mounted	1	10	7415064
D3060	Roof	Fair	Exhaust Fan, Roof or Wall-Mounted, 10" Damper	1	3	7415055
D3060	Throughout building	Fair	Supplemental Components, Air Purifier, Electrostatic	108	3	7415144
D3060	Gym Mechanical Room	Fair	Exhaust Fan, Centrifugal, 42" Damper	1	3	7415019
D3060	Cafeteria Mechanical Room	Fair	Exhaust Fan, Centrifugal, 12" Damper	1	3	7415027
D3060	Cafeteria Mechanical Room	Fair	Exhaust Fan, Centrifugal, 16" Damper	1	3	7415043
D3060	Cafeteria Mechanical Room	Fair	Exhaust Fan, Centrifugal, 16" Damper	1	3	7415005
D3060	Roof	Fair	Exhaust Fan, Roof or Wall-Mounted, 24" Damper	1	3	7414954
D3060	Cafeteria Mechanical Room	Fair	Exhaust Fan, Centrifugal, 24" Damper	1	3	7415047
D3060	Auditorium Projector Room	Fair	Exhaust Fan, Centrifugal, 12" Damper	1	3	7415051
D3060	Office Mechanical Room	Fair	Exhaust Fan, Centrifugal, 16" Damper	1	3	7414928
D3060	Cafeteria Mechanical Room	Fair	Exhaust Fan, Centrifugal, 16" Damper	1	3	7414941
D3060	Cafeteria Mechanical Room	Fair	Exhaust Fan, Centrifugal, 16" Damper	1	3	7415094
D3060	Cafeteria Mechanical Room	Fair	Exhaust Fan, Centrifugal, 16" Damper	1	3	7415143
D3060	Boiler room	Fair	Exhaust Fan, Roof or Wall-Mounted, 16" Damper	1	3	7415140

Component Condition Report | John Marshall High School / Main Building

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
D3060	Boiler room	Fair	Exhaust Fan, Roof or Wall-Mounted, 16" Damper	1	3	7414959
D3060	Gym Mechanical Room	Fair	Exhaust Fan, Centrifugal, 16" Damper	1	3	7414947
D3060	Office Mechanical Room	Fair	Exhaust Fan, Centrifugal, 24" Damper	1	3	7414913
D3060	Gym Mechanical Room	Fair	Exhaust Fan, Centrifugal, 42" Damper	1	3	7415110
D3060	Roof	Fair	Exhaust Fan, Roof or Wall-Mounted, 24" Damper	1	3	7415106
D3060	Roof	Fair	Exhaust Fan, Centrifugal, 36"Damper	1	3	7414981
D3060	Boiler room	Fair	Exhaust Fan, Roof or Wall-Mounted, 16" Damper	1	3	7415093
Electrical						
D5010	Electrical room	Fair	Automatic Transfer Switch, ATS	1	15	7414945
D5010	Building exterior	Good	Generator, Diesel	1	21	7415070
D5020	Tunnels	Fair	Secondary Transformer, Dry, Stepdown	1	16	7415010
D5020	Security Office	Fair	Distribution Panel, 120/208 V	1	3	7415136
D5020	Tunnels	Fair	Secondary Transformer, Dry, Stepdown	1	16	7414950
D5020	Electrical room	Fair	Secondary Transformer, Dry, Stepdown	1	16	7415015
D5020	Gymnasium	Fair	Secondary Transformer, Dry, Stepdown	1	3	7414975
D5020	Gym Mechanical Room	Fair	Motor Control Center, w/ Main Breaker	1	3	7415111
D5020	Electrical room	Fair	Secondary Transformer, Dry, Stepdown	1	15	7415038
D5020	Boiler room	Fair	Secondary Transformer, Dry, Stepdown	1	15	7414986
D5020	Gymnasium	Fair	Secondary Transformer, Dry, Stepdown	1	3	7414994
D5020	Gym Mechanical Room	Fair	Motor Control Center, w/ Main Breaker	1	3	7414977
D5020	IDF Z	Fair	Secondary Transformer, Dry, Stepdown	1	15	7414921
D5020	Electrical room	Fair	Switchboard, 277/480 V	1	4	7415104
D5020	Office Mechanical Room	Fair	Motor Control Center, w/ Main Breaker	1	3	7415125
D5020	Tunnels	Fair	Secondary Transformer, Dry, Stepdown	1	16	7415091
D5020	Electrical room	Fair	Distribution Panel, 120/208 V	1	3	7415099

Component Condition Report | John Marshall High School / Main Building

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
D5020	Boiler room	Fair	Motor Control Center, w/ Main Breaker	1	3	7415127
D5020	IDF Z	Fair	Distribution Panel, 120/208 V	1	3	7414961
D5020	Tunnels	Fair	Secondary Transformer, Dry, Stepdown	1	16	7415067
D5020	Cafeteria Mechanical Room	Fair	Motor Control Center, w/ Main Breaker	1	3	7415081
D5020	Speech Room	Fair	Distribution Panel, 120/208 V	1	10	7415098
D5020	IDF Z	Fair	Supplemental Components, Circuit Breaker/Disconnect	1	3	7414979
D5030	Boiler room	Good	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	16	7415092
D5030	Throughout building	Fair	Electrical System, Wiring & Switches, Average or Low Density/Complexity	230,994 SF	4	7414948
D5030	Boiler room	Good	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	16	7415107
D5030	Boiler room	Good	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	16	7415114
D5030	Boiler room	Good	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	16	7415056
D5030	Boiler room	Good	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	16	7414924
D5030	Boiler room	Good	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	1	16	7414969
D5040	Throughout building	Fair	Interior Lighting System, Full Upgrade, Medium Density & Standard Fixtures	230,994 SF	7	7415135
Fire Alarm & Electronic Systems						
D6020	Throughout building	Fair	Low Voltage System, Phone & Data Lines	230,994 SF	13	7414962
D6060	Throughout building	Fair	Intercom/PA System, Public Address Upgrade, Facility-Wide	230,994 SF	9	7414968
D7010	Building Entrances	Fair	Personnel Access Devices, Metal Detector	1	5	7415001
D7010	Building Entrances	Fair	Personnel Access Devices, Metal Detector	1	5	7414937
D7010	Building Entrances	Fair	Personnel Access Devices, Metal Detector	1	5	7414998
D7010	Building Entrances	Fair	Personnel Access Devices, Metal Detector	1	5	7414951
D7010	Building Entrances	Fair	Personnel Access Devices, Metal Detector	1	5	7414971
D7010	Building Entrances	Fair	Personnel Access Devices, Metal Detector	1	5	7414955
D7030	Throughout building	Good	Security/Surveillance System, Full System Upgrade, Average Density	230,994 SF	11	7415035
D7050	Office	Fair	Fire Alarm Panel, Fully Addressable	1	9	7415121

Component Condition Report | John Marshall High School / Main Building

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
D7050	Throughout building	Fair	Fire Alarm System, Full System Upgrade, Simple Addressable, Upgrade/Install	230,994 SF	9	7415020
D8010	Throughout building	Fair	BAS/HVAC Controls, Basic System or Legacy Upgrades, Upgrade/Install	230,994 SF	4	7415090
Equipment & Furnishings						
E1030	Kitchen	Fair	Foodservice Equipment, Walk-In, Condenser for Refigerator/Freezer	1	7	7414942
E1030	Kitchen	Good	Foodservice Equipment, Broiler	1	12	7415083
E1030	Kitchen	Fair	Foodservice Equipment, Convection Oven, Single	1	6	7415078
E1030	Kitchen	Fair	Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich	1	3	7415030
E1030	Kitchen	Good	Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels	1	10	7414967
E1030	Kitchen	Failed	Foodservice Equipment, Mixer, Tabletop	1	0	7414974
E1030	Kitchen	Fair	Foodservice Equipment, Walk-In, Evaporator for Refigerator/Freezer	1	7	7415026
E1030	Kitchen	Fair	Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels	1	8	7415071
E1030	Kitchen	Fair	Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich	1	3	7415126
E1030	Kitchen	Good	Foodservice Equipment, Refrigerator, 3-Door Reach-In	1	11	7415058
E1030	Kitchen	Fair	Foodservice Equipment, Freezer, 2-Door Reach-In	1	8	7414914
E1030	Kitchen	Fair	Foodservice Equipment, Mixer, Freestanding	1	3	7414930
E1030	Kitchen	Good	Foodservice Equipment, Dairy Cooler/Wells	1	13	7414919
E1030	Kitchen	Failed	Foodservice Equipment, Slicer	1	0	7415016
E1030	Kitchen	Fair	Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels	1	8	7415065
E1030	Kitchen	Fair	Foodservice Equipment, Walk-In, Evaporator for Refigerator/Freezer	1	7	7415142
E1030	Kitchen	Fair	Foodservice Equipment, Refrigerator, Undercounter 1-Door	1	7	7415088
E1030	Boys Locker Room	Excellent	Laundry Equipment, Washer, Commercial	1	9	7414917
E1030	Kitchen	Fair	Foodservice Equipment, Griddle	1	3	7415008
E1030	Kitchen	Fair	Foodservice Equipment, Refrigerator, Undercounter 1-Door	1	7	7415018
E1030	Kitchen	Fair	Foodservice Equipment, Walk-In, Refrigerator	1	12	7415060
E1030	Kitchen	Fair	Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich	1	3	7415149

Component Condition Report | John Marshall High School / Main Building

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
E1030	Kitchen	Fair	Foodservice Equipment, Walk-In, Condenser for Refigerator/Freezer	1	7	7415011
E1030	Kitchen	Fair	Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich	1	3	7414996
E1030	Boys Locker Room	Fair	Laundry Equipment, Dryer, Commercial	1	3	7414956
E1030	Kitchen	Fair	Foodservice Equipment, Tilting Skillet	1	11	7415025
E1030	Kitchen	Fair	Foodservice Equipment, Steamer, Freestanding	1	5	7415129
E1030	Kitchen	Good	Foodservice Equipment, Broiler	1	12	7414925
E1030	Kitchen	Good	Foodservice Equipment, Freezer, 3-Door Reach-In	1	11	7415039
E1030	Kitchen	Fair	Foodservice Equipment, Mixer, Freestanding	1	3	7414923
E1030	Kitchen	Fair	Foodservice Equipment, Refrigerator, Undercounter 1-Door	1	7	7414958
E1030	Kitchen	Fair	Foodservice Equipment, Refrigerator, 3-Door Reach-In	1	7	7414949
E1030	Kitchen	Fair	Foodservice Equipment, Refrigerator, Undercounter 1-Door	1	7	7414920
E1030	Kitchen	Fair	Foodservice Equipment, Convection Oven, Single	1	6	7415029
E1030	Kitchen	Fair	Foodservice Equipment, Food Warmer, Proofing Cabinet	1	10	7414940
E1030	Kitchen	Fair	Foodservice Equipment, Walk-In, Freezer	1	12	7415128
E1030	Kitchen	Fair	Foodservice Equipment, Exhaust Hood, 8 to 10 LF	1	3	7415074
E1030	Kitchen	Fair	Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels	1	10	7415103
E1040	Art Room	Excellent	Ceramics Equipment, Kiln	1	19	7414929
E1040	Office	Good	Healthcare Equipment, Defibrillator (AED), Cabinet-Mounted	1	7	7415003
E2010	Home Education	Good	Casework, Countertop, Natural Stone	90 LF	44	7415040
E2010	Gymnasium	Fair	Bleachers, Telescoping Power-Operated, up to 15 Tier (per Seat)	590	13	7414957
E2010	Science Classrooms	Fair	Casework, Countertop, Solid Surface	350 LF	5	7415079
E2010	Home Education	Good	Casework, Cabinetry, Hardwood Standard	60 LF	14	7414932
E2010	Throughout building	Fair	Casework, Countertop, Plastic Laminate	90 LF	6	7415132
E2010	Theatres	Fair	Fixed Seating, Auditorium/Theater, Metal Cushioned Standard	795	3	7414990
E2010	Throughout building	Fair	Casework, Cabinetry Economy	440 LF	6	7415147

Component Condition Report | John Marshall High School / Main Building

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
Athletic, Recreational & Playfield Areas						
G2050	Gymnasium	Fair	Sports Apparatus, Basketball, Backboard/Rim/Pole	6	12	7414912
G2050	Gymnasium	Fair	Sports Apparatus, Scoreboard, Electronic Standard	2	15	7415137
G2050	Gymnasium	Fair	Sports Apparatus, Player/Dugout Benches, 12' Length	16	3	7415084
G2050	Parking lot	Fair	Sports Apparatus, Basketball, Backboard/Rim/Pole	3	5	7415087
Sitework						
G2060	Site	Poor	Park Bench, Wood/Composite/Fiberglass	10	1	7415041
G2060	Site	Good	Picnic Table, Metal Powder-Coated	21	15	7415101
G2060	Site	Poor	Picnic Table, Wood/Composite/Fiberglass	19	1	7415061
G4050	Building Exterior	Poor	Exterior Fixture w/ Lamp, any type, w/ LED Replacement	98	1	7414916
Follow-up Studies						
P2030	Building exterior	Poor	Engineering Study, Structural, General Design, Design	1	0	7414999
P2030	Throughout building	Poor	Engineering Study, Environmental, Asbestos (ACM) & Lead Base Paint (LBP), Evaluate/Report	1	0	7415150
P2030	Classrooms	Poor	Consultant, Environmental, Analysis of Suspect Fungal Growth, Evaluate/Report	1	0	7414943

Component Condition Report | John Marshall High School

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
Facade						
B2010		Poor	Curtain Wall, Aluminum-Framed System	10,400 SF	1	7523202

Component Condition Report | John Marshall High School / Site

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
Equipment & Furnishings						
E2010	Sports Fields	Fair	Bleachers, Fixed Steel Frame, Aluminum Benches (per Seat)	3,700	12	7414938
Special Construction & Demo						

Component Condition Report | John Marshall High School / Site

UF L3 Code	Location	Condition	Asset/Component/Repair	Quantity	RUL	ID
F1020	Sports Fields	Fair	Shed/Gazebo/Shade Structure, Wood or Metal-Framed, Standard	200 SF	11	7414953
Pedestrian Plazas & Walkways						
G2020	Parking lot	Fair	Parking Lots, Pavement, Asphalt, Mill & Overlay	155,300 SF	5	7415066
G2020	Parking lot	Poor	Parking Lots, Pavement, Asphalt, Seal & Stripe	155,300 SF	0	7415007
G2030	Walkways	Poor	Sidewalk, any pavement type, Sectional Repairs (per Man-Day), Repair	3	0	7415023
Athletic, Recreational & Playfield Areas						
G2050	Tennis Courts	Poor	Athletic Surfaces & Courts, Tennis/Volleyball, 2-Color Surface, Seal & Stripe	25,000 SF	1	7415139
G2050	Sports Fields	Fair	Sports Apparatus, Football, Goal Post	2	9	7414987
G2050	Sports Fields	Fair	Sports Apparatus, Player/Dugout Benches, 12' Length	8	5	7414918
G2050	Sports Fields	Good	Athletic Surfaces & Courts, Track Surface, Rubber	49,000 SF	7	7415112
G2050	Sports Fields	Fair	Sports Apparatus, Baseball, Batting Cage	1	3	7415085
G2050	Sports Fields	Good	Sports Apparatus, Scoreboard, Electronic Very Robust	1	22	7415004
G2050	Sports Fields	Fair	Sports Apparatus, Baseball, Foul Pole	2	8	7415077
G2050	Sports Fields	Fair	Sports Apparatus, Baseball, Backstop Chain-Link	2	3	7415134
Sitework						
G2060	Site	Fair	Flagpole, Metal	1	15	7415032
G2060	Tennis Courts	Fair	Fences & Gates, Fence, Chain Link 8'	650 LF	11	7414978
G2060	Site	Good	Signage, Property, Pylon Robust/Electronic Programmable, Replace/Install	1	17	7415148
G2060	Building exterior	Fair	Trash Receptacle, Medium-Duty Metal or Precast	4	6	7415141
G4050	Parking lot	Fair	Pole Light Fixture w/ Lamps, any type 20' High, w/ LED Replacement, Replace/Install	4	15	7415115

Appendix E:
Replacement Reserves

Replacement Reserves Report

5/23/2024

Location	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	Total Escalated Estimate
John Marshall High School	$0	$1,178,320	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	**$1,178,320**
John Marshall High School / Main Building	$2,577,370	$4,289,231	$2,698,860	$2,096,670	$4,432,220	$1,590,176	$1,702,062	$2,408,008	$340,128	$1,138,321	$6,059,585	$716,601	$276,170	$1,566,251	$52,336	$358,878	$1,980,448	$918,818	$519,583	$1,030,509	$14,280,600	**$51,032,824**
John Marshall High School / Site	$72,885	$38,625	$0	$12,566	$0	$715,313	$3,343	$301,319	$3,800	$13,048	$93,920	$88,245	$633,038	$0	$0	$138,947	$0	$446,269	$2,554	$0	$132,722	**$2,696,594**
Grand Total	**$2,650,255**	**$5,506,176**	**$2,698,860**	**$2,109,236**	**$4,432,220**	**$2,305,489**	**$1,705,405**	**$2,709,327**	**$343,928**	**$1,151,369**	**$6,153,504**	**$804,846**	**$909,208**	**$1,566,251**	**$52,336**	**$497,825**	**$1,980,448**	**$1,365,087**	**$522,136**	**$1,030,509**	**$14,413,322**	**$54,907,738**

John Marshall High School

Uniformat Code	Location Description	ID	Cost Description	Lifespan (EUL)	EAge	RUL	Quantity	Unit	Unit Cost *	Subtotal	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	Deficiency Repair Estimate
B2010	John Marshall High School	7523202	Curtain Wall, Aluminum-Framed System, Replace	50	49	1	10400	SF	$110.00	$1,144,000		$1,144,000																				**$1,144,000**
Totals, Unescalated											**$0**	**$1,144,000**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$1,144,000**
Totals, Escalated (3.0% inflation, compounded annually)											**$0**	**$1,178,320**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$1,178,320**

John Marshall High School / Main Building

Uniformat Code	Location Description	ID	Cost Description	Lifespan (EUL)	EAge	RUL	Quantity	Unit	Unit Cost *	Subtotal	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	Deficiency Repair Estimate
A1010	Throughout	7456106	Foundation System, Concrete or CMU Walls w/ Continuous Footings, Replace	75	55	20	11676	LF	$120.00	$1,401,120																					$1,401,120	**$1,401,120**
B1010	Throughout	7456105	Structural Framing, Masonry (CMU) Bearing Walls, Replace	75	55	20	230994	SF	$28.00	$6,467,832																					$6,467,832	**$6,467,832**
B2010	Building Exterior	7415012	Exterior Walls, Brick Veneer, Replace	50	50	0	94000	SF	$27.00	$2,538,000	$2,538,000																					**$2,538,000**
B2020	Building Exterior	7415152	Glazing, any type by SF, Replace	30	29	1	9600	SF	$55.00	$528,000		$528,000																				**$528,000**
B2020	Theatres	7415045	Screens & Shutters, Rolling Security Shutter, 55 to 100 SF, Replace	20	14	6	1	EA	$2,000.00	$2,000							$2,000															**$2,000**
B2050	Building Exterior	7415073	Exterior Door, Steel, Standard, Replace	40	37	3	134	EA	$600.00	$80,400				$80,400																		**$80,400**
B3010	Roof	7414988	Roofing, Modified Bitumen, Replace	20	10	10	1250	SF	$20.00	$25,000											$25,000											**$25,000**
B3010	Roof	7415044	Roofing, Built-Up, Replace	25	15	10	150250	SF	$28.00	$4,207,000											$4,207,000											**$4,207,000**
B3020	Roof	7414983	Roof Appurtenances, Gutters & Downspouts, Aluminum w/ Fittings, Replace	20	10	10	3000	LF	$9.00	$27,000											$27,000											**$27,000**
B3060	Gymnasium Roof	7415151	Roof Skylight, per unit, up to 20 SF, Replace	30	25	5	42	EA	$1,300.00	$54,600						$54,600																**$54,600**
C1030	Throughout building	7414915	Interior Door, Wood, Solid-Core, Replace	40	33	7	387	EA	$700.00	$270,900								$270,900														**$270,900**
C1070	Main Building	7414927	Suspended Ceilings, Acoustical Tile (ACT), Replace	25	24	1	11300	SF	$3.50	$39,550		$39,550																				**$39,550**
C1070	Throughout building	7414966	Suspended Ceilings, Acoustical Tile (ACT), Replace	25	19	6	197000	SF	$3.50	$689,500							$689,500															**$689,500**
C1090	Restrooms	7415059	Toilet Partitions, Plastic/Laminate, Replace	20	10	10	67	EA	$3,000.00	$201,000											$201,000											**$201,000**
C1090	Adult Education Center	7415054	Toilet Partitions, Plastic/Laminate, Replace	20	5	15	3	EA	$750.00	$2,250																	$2,250					**$2,250**
C1090	Throughout building	7414997	Lockers, Steel-Baked Enamel, 12" W x 15" D x 72" H, Replace	20	15	5	1500	EA	$500.00	$750,000							$750,000															**$750,000**
C2010	Restrooms	7415000	Wall Finishes, Ceramic Tile, Replace	40	35	5	19000	SF	$18.00	$342,000							$342,000															**$342,000**
C2010	Throughout building	7415100	Wall Finishes, any surface, Prep & Paint	10	4	6	382500	SF	$1.50	$573,750								$573,750														**$1,147,500**
C2030	Restrooms	7415063	Flooring, Ceramic Tile, Replace	40	36	4	22600	SF	$18.00	$406,800						$406,800																**$406,800**
C2030	Cafeteria	7415013	Flooring, Quarry Tile, Replace	50	46	4	29400	SF	$26.00	$764,400						$764,400																**$764,400**
C2030	Classrooms	7415033	Flooring, Vinyl Tile (VCT), w/ Asbestos Abatement, Replace	15	14	1	65700	SF	$8.00	$525,600		$525,600																				**$1,051,200**
C2030	Main Building	7415002	Flooring, Terrazzo, Replace	50	46	4	67900	SF	$14.00	$950,600						$950,600																**$950,600**
C2030	Throughout building	7415021	Flooring, Carpet, Commercial Standard, Replace	10	7	3	24900	SF	$7.50	$186,750				$186,750										$186,750								**$373,500**
C2030	Gymnasium	7414946	Flooring, Maple Sports Floor, Refinish	10	5	5	15800	SF	$5.00	$79,000						$79,000											$79,000					**$158,000**
C2050	Kitchen	7415022	Ceiling Finishes, any flat surface, Prep & Paint	10	5	5	18100	SF	$2.00	$36,200						$36,200											$36,200					**$72,400**
D1010	Elevator	7414992	Elevator Cab Finishes, Economy, Replace	10	8	2	1	EA	$3,000.00	$3,000			$3,000										$3,000									**$6,000**
D1010	Elevator	7415089	Elevator Controls, Automatic, 1 Car, Replace	20	17	3	1	EA	$5,000.00	$5,000				$5,000																		**$5,000**
D1010	Elevator	7415118	Passenger Elevator, Hydraulic, 2 Floors, Renovate	30	27	3	1	EA	$55,000.00	$55,000				$55,000																		**$55,000**
D2010	Boiler room	7414989	Water Heater, Gas, Commercial (200 MBH), Replace	20	17	3	1	EA	$16,600.00	$16,600				$16,600																		**$16,600**
D2010	Tunnels	7415124	Water Heater, Electric, Commercial (12 kW), Replace	20	17	3	1	EA	$12,400.00	$12,400				$12,400																		**$12,400**
D2010	Boiler room	7415123	Water Heater, Gas, Commercial (200 MBH), Replace	20	6	14	1	EA	$16,600.00	$16,600																	$16,600					**$16,600**
D2010	Throughout building	7414995	Plumbing System, Supply & Sanitary, Medium Density (excludes fixtures), Replace	40	65	* 0	230994	SF	$11.00	$2,540,934			$2,540,934																			**$2,540,934**
D2010	Boiler room	7415109	Backflow Preventer, Domestic Water, Replace	30	18	12	1	EA	$3,200.00	$3,200													$3,200									**$3,200**
D2010	Boiler room	7414926	Backflow Preventer, Domestic Water, Replace	30	18	12	1	EA	$3,200.00	$3,200													$3,200									**$3,200**
D2010	Science Classrooms	7415082	Emergency Plumbing Fixtures, Eye Wash & Shower Station, Replace	20	17	3	2	EA	$2,300.00	$4,600				$4,600																		**$4,600**
D2010	Restrooms	7414936	Sink/Lavatory, Wall-Hung, Vitreous China, Replace	30	27	3	73	EA	$1,500.00	$109,500				$109,500																		**$109,500**
D2010	Utility closet	7415034	Sink/Lavatory, Service Sink, Wall-Hung, Replace	35	32	3	10	EA	$1,400.00	$14,000				$14,000																		**$14,000**
D2010	Boys Locker Room	7415113	Shower, Ceramic Tile, Replace	30	27	3	46	EA	$2,500.00	$115,000				$115,000																		**$115,000**
D2010	Classrooms	7415075	Sink/Lavatory, Vanity Top, Solid Surface or Vitreous China, Replace	30	27	3	39	EA	$1,100.00	$42,900				$42,900																		**$42,900**
D2010	Throughout building	7415146	Sink/Lavatory, Vanity Top, Solid Surface or Vitreous China, Replace	30	26	4	2	EA	$1,100.00	$2,200						$2,200																**$2,200**
D2010	Girls Locker Room	7414982	Shower, Enameled Steel, Replace	20	14	6	25	EA	$2,700.00	$67,500							$67,500															**$67,500**
D2010	Restrooms	7415102	Urinal, Standard, Replace	30	23	7	39	EA	$1,100.00	$42,900								$42,900														**$42,900**
D2010	Restrooms	7415153	Toilet, Commercial Water Closet, Replace	30	23	7	68	EA	$1,300.00	$88,400								$88,400														**$88,400**

Replacement Reserves Report

5/23/2024

Uniformat Code	Location Description	ID	Cost Description	Lifespan (EUL)	EAge	RUL	Quantity	Unit	Unit Cost *	Subtotal	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	Deficiency Repair Estimate
D2010	Kitchen	7415131	Sink/Lavatory, Service Sink, Floor, Replace	35	27	8	1	EA	$800.00	$800									$800													**$800**
D2010	Kitchen	7415037	Sink/Lavatory, Commercial Kitchen, 2-Bowl, Replace	30	20	10	2	EA	$2,100.00	$4,200											$4,200											**$4,200**
D2010	Throughout building	7415049	Drinking Fountain, Wall-Mounted, Single-Level, Replace	15	4	11	15	EA	$1,200.00	$18,000												$18,000										**$18,000**
D2010	Throughout building	7414993	Sink/Lavatory, Vanity Top, Stainless Steel, Replace	30	18	12	35	EA	$1,200.00	$42,000													$42,000									**$42,000**
D2010	Kitchen	7414931	Sink/Lavatory, Commercial Kitchen, 3-Bowl, Replace	30	17	13	2	EA	$2,500.00	$5,000														$5,000								**$5,000**
D2010	Restrooms	7415062	Toilet, Residential Water Closet, Replace	30	14	16	2	EA	$700.00	$1,400																	$1,400					**$1,400**
D2030	Boiler room	7415080	Pump, Sump, Replace	15	8	7	1	EA	$4,270.00	$4,270								$4,270														**$4,270**
D2060	Boiler room	7415095	Air Compressor, Tank-Style, Replace	20	20	0	1	EA	$7,270.00	$7,270	$7,270																				$7,270	**$14,540**
D2060	Boiler room	7415042	Air Compressor, Tank-Style, Replace	20	17	3	1	EA	$10,600.00	$10,600				$10,600																		**$10,600**
D2060	Boiler room	7415052	Air Compressor, Tank-Style, Replace	20	13	7	1	EA	$15,900.00	$15,900								$15,900														**$15,900**
D2060	Boiler room	7415024	Supplemental Components, Compressed Air Dryer, Process Support, Replace	20	4	16	1	EA	$5,600.00	$5,600																	$5,600					**$5,600**
D3020	Boiler room	7415006	Boiler, Gas, HVAC, Replace	30	26	4	1	EA	$270,000.00	$270,000					$270,000																	**$270,000**
D3020	Boiler room	7415068	Boiler, Gas, HVAC, Replace	30	26	4	1	EA	$270,000.00	$270,000					$270,000																	**$270,000**
D3020	Cafeteria Mechanical Room	7415028	Unit Heater, Hydronic, Replace	20	17	3	1	EA	$2,100.00	$2,100				$2,100																		**$2,100**
D3020	Throughout building	7414944	Radiator, Hydronic, Baseboard (per LF), Replace	30	27	3	275	LF	$150.00	$41,250				$41,250																		**$41,250**
D3020	Boiler room	7415069	Unit Heater, Hydronic, Replace	20	17	3	3	EA	$2,100.00	$6,300				$6,300																		**$6,300**
D3020	Office Mechanical Room	7415145	Unit Heater, Hydronic, Replace	20	15	5	1	EA	$2,100.00	$2,100						$2,100																**$2,100**
D3020	Gym Mechanical Room	7415130	Unit Heater, Hydronic, Replace	20	15	5	1	EA	$2,100.00	$2,100						$2,100																**$2,100**
D3020	Gym Mechanical Room	7414934	Unit Heater, Hydronic, Replace	20	15	5	1	EA	$2,100.00	$2,100						$2,100																**$2,100**
D3020	Auditorium Mechanical Room	7415076	Unit Heater, Hydronic, Replace	20	15	5	1	EA	$2,100.00	$2,100						$2,100																**$2,100**
D3020	Chiller Room	7415120	Unit Heater, Electric, Replace	20	11	9	1	EA	$1,800.00	$1,800										$1,800												**$1,800**
D3020	Boiler room	7414952	Boiler Supplemental Components, Expansion Tank, Replace	40	37	3	1	EA	$5,200.00	$5,200				$5,200																		**$5,200**
D3020	Boiler room	7415138	Boiler Supplemental Components, Expansion Tank, Replace	40	37	3	1	EA	$90,800.00	$90,800				$90,800																		**$90,800**
D3020	Boiler room	7414980	Boiler Supplemental Components, Chemical Feed System, Replace	15	3	12	1	EA	$11,700.00	$11,700													$11,700									**$11,700**
D3020	Boiler room	7415017	Boiler Supplemental Components, Expansion Tank, Replace	40	24	16	1	EA	$2,700.00	$2,700																	$2,700					**$2,700**
D3020	Boiler room	7415050	Boiler Supplemental Components, Expansion Tank, Replace	40	24	16	1	EA	$2,700.00	$2,700																	$2,700					**$2,700**
D3030	Chiller Room	7415046	Chiller, Water-Cooled, Replace	25	8	17	1	EA	$250,000.00	$250,000																		$250,000					**$250,000**
D3030	Chiller Room	7414984	Chiller, Water-Cooled, Replace	25	8	17	1	EA	$250,000.00	$250,000																		$250,000					**$250,000**
D3050	Throughout building	7415117	HVAC System, Hydronic Piping, 4-Pipe, Replace	40	39	1	230994	SF	$8.00	$1,847,952		$1,847,952																				**$1,847,952**
D3050	Boiler room	7414963	Pump, Distribution, HVAC Heating Water, Replace	25	21	4	1	EA	$22,000.00	$22,000					$22,000																	**$22,000**
D3050	Boiler room	7415072	Pump, Distribution, HVAC Heating Water, Replace	25	21	4	1	EA	$22,000.00	$22,000					$22,000																	**$22,000**
D3050	Boiler room	7414922	Pump, Distribution, HVAC Chilled or Condenser Water, Replace	25	8	17	1	EA	$13,600.00	$13,600																		$13,600					**$13,600**
D3050	Boiler room	7414935	Pump, Distribution, HVAC Chilled or Condenser Water, Replace	25	8	17	1	EA	$13,600.00	$13,600																		$13,600					**$13,600**
D3050	Boiler room	7414985	Pump, Distribution, HVAC Chilled or Condenser Water, Replace	25	8	17	1	EA	$13,600.00	$13,600																		$13,600					**$13,600**
D3050	Boiler room	7415009	Pump, Distribution, HVAC Chilled or Condenser Water, Replace	25	8	17	1	EA	$13,600.00	$13,600																		$13,600					**$13,600**
D3050	Throughout building	7414933	Fan Coil Unit, Hydronic Terminal, Replace	20	19	1	148	EA	$7,750.00	$1,147,000		$1,147,000																				**$1,147,000**
D3050	Auditorium Mechanical Room	7415096	Air Handler, Interior AHU, Easy/Moderate Access, Replace	30	27	3	1	EA	$40,000.00	$40,000				$40,000																		**$40,000**
D3050	Gym Mechanical Room	7415105	Air Handler, Interior AHU, Easy/Moderate Access, Replace	30	27	3	1	EA	$31,000.00	$31,000				$31,000																		**$31,000**
D3050	Gym Mechanical Room	7414960	Air Handler, Interior AHU, Easy/Moderate Access, Replace	30	27	3	1	EA	$31,000.00	$31,000				$31,000																		**$31,000**
D3050	Office Mechanical Room	7415122	Air Handler, Interior AHU, Easy/Moderate Access, Replace	25	22	3	1	EA	$22,000.00	$22,000				$22,000																		**$22,000**
D3050	Auditorium Mechanical Room	7415057	Air Handler, Interior AHU, Easy/Moderate Access, Replace	25	22	3	1	EA	$22,000.00	$22,000				$22,000																		**$22,000**
D3050	Office Mechanical Room	7415119	Air Handler, Interior AHU, Easy/Moderate Access, Replace	30	27	3	1	EA	$40,000.00	$40,000				$40,000																		**$40,000**
D3050	Gym Mechanical Room	7415116	Air Handler, Interior AHU, Easy/Moderate Access, Replace	25	22	3	1	EA	$22,000.00	$22,000				$22,000																		**$22,000**
D3050	Gym Mechanical Room	7415097	Air Handler, Interior AHU, Easy/Moderate Access, Replace	25	22	3	1	EA	$22,000.00	$22,000				$22,000																		**$22,000**
D3050	Office Mechanical Room	7415133	Air Handler, Interior AHU, Easy/Moderate Access, Replace	30	27	3	1	EA	$31,000.00	$31,000				$31,000																		**$31,000**
D3050	Cafeteria Mechanical Room	7415036	Air Handler, Interior AHU, Easy/Moderate Access, Replace	30	27	3	1	EA	$40,000.00	$40,000				$40,000																		**$40,000**
D3050	Auditorium Mechanical Room	7415048	Air Handler, Interior AHU, Easy/Moderate Access, Replace	25	22	3	1	EA	$22,000.00	$22,000				$22,000																		**$22,000**
D3050	Throughout building	7415108	HVAC System, Ductwork, Low Density, Replace	30	23	7	230994	SF	$2.00	$461,988								$461,988														**$461,988**
D3050	Roof	7415086	Packaged Unit, RTU, Pad or Roof-Mounted, Replace	20	11	9	1	EA	$5,500.00	$5,500										$5,500												**$5,500**
D3050	South Courtyard	7415064	Packaged Unit, RTU, Pad or Roof-Mounted, Replace	20	10	10	1	EA	$9,000.00	$9,000											$9,000											**$9,000**
D3050	South Courtyard	7414991	Packaged Unit, RTU, Pad or Roof-Mounted, Replace	20	10	10	1	EA	$9,000.00	$9,000											$9,000											**$9,000**
D3050	South Courtyard	7414965	Packaged Unit, RTU, Pad or Roof-Mounted, Replace	20	10	10	1	EA	$9,000.00	$9,000											$9,000											**$9,000**
D3060	Gym Mechanical Room	7415019	Exhaust Fan, Centrifugal, 42" Damper, Replace	25	22	3	1	EA	$11,000.00	$11,000				$11,000																		**$11,000**
D3060	Roof	7414954	Exhaust Fan, Roof or Wall-Mounted, 24" Damper, Replace	20	17	3	1	EA	$3,000.00	$3,000				$3,000																		**$3,000**
D3060	Cafeteria Mechanical Room	7415047	Exhaust Fan, Centrifugal, 24" Damper, Replace	25	22	3	1	EA	$3,000.00	$3,000				$3,000																		**$3,000**
D3060	Auditorium Projector Room	7415051	Exhaust Fan, Centrifugal, 12" Damper, Replace	25	22	3	1	EA	$1,400.00	$1,400				$1,400																		**$1,400**
D3060	Office Mechanical Room	7414928	Exhaust Fan, Centrifugal, 16" Damper, Replace	25	22	3	1	EA	$2,400.00	$2,400				$2,400																		**$2,400**

Replacement Reserves Report

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Uniformat Code	Location Description	ID	Cost Description	Lifespan (EUL)	EAge	RUL	Quantity	Unit	Unit Cost *	Subtotal	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	Deficiency Repair Estimate
D3060	Cafeteria Mechanical Room	7414941	Exhaust Fan, Centrifugal, 16" Damper, Replace	25	22	3	1	EA	$2,400.00	$2,400				$2,400																		**$2,400**
D3060	Cafeteria Mechanical Room	7415143	Exhaust Fan, Centrifugal, 16" Damper, Replace	25	22	3	1	EA	$2,400.00	$2,400				$2,400																		**$2,400**
D3060	Gym Mechanical Room	7415110	Exhaust Fan, Centrifugal, 42" Damper, Replace	25	22	3	1	EA	$11,000.00	$11,000				$11,000																		**$11,000**
D3060	Roof	7415055	Exhaust Fan, Roof or Wall-Mounted, 10" Damper, Replace	20	17	3	1	EA	$1,200.00	$1,200				$1,200																		**$1,200**
D3060	Roof	7414981	Exhaust Fan, Centrifugal, 36"Damper, Replace	25	22	3	1	EA	$5,600.00	$5,600				$5,600																		**$5,600**
D3060	Boiler room	7415093	Exhaust Fan, Roof or Wall-Mounted, 16" Damper, Replace	20	17	3	1	EA	$2,400.00	$2,400				$2,400																		**$2,400**
D3060	Roof	7415106	Exhaust Fan, Roof or Wall-Mounted, 24" Damper, Replace	20	17	3	1	EA	$3,000.00	$3,000				$3,000																		**$3,000**
D3060	Office Mechanical Room	7414913	Exhaust Fan, Centrifugal, 24" Damper, Replace	25	22	3	1	EA	$3,000.00	$3,000				$3,000																		**$3,000**
D3060	Gym Mechanical Room	7414947	Exhaust Fan, Centrifugal, 16" Damper, Replace	25	22	3	1	EA	$2,400.00	$2,400				$2,400																		**$2,400**
D3060	Boiler room	7414959	Exhaust Fan, Roof or Wall-Mounted, 16" Damper, Replace	20	17	3	1	EA	$2,400.00	$2,400				$2,400																		**$2,400**
D3060	Boiler room	7415140	Exhaust Fan, Roof or Wall-Mounted, 16" Damper, Replace	20	17	3	1	EA	$2,400.00	$2,400				$2,400																		**$2,400**
D3060	Cafeteria Mechanical Room	7415094	Exhaust Fan, Centrifugal, 16" Damper, Replace	25	22	3	1	EA	$2,400.00	$2,400				$2,400																		**$2,400**
D3060	Cafeteria Mechanical Room	7415005	Exhaust Fan, Centrifugal, 16" Damper, Replace	25	22	3	1	EA	$2,400.00	$2,400				$2,400																		**$2,400**
D3060	Cafeteria Mechanical Room	7415043	Exhaust Fan, Centrifugal, 16" Damper, Replace	25	22	3	1	EA	$2,400.00	$2,400				$2,400																		**$2,400**
D3060	Cafeteria Mechanical Room	7415027	Exhaust Fan, Centrifugal, 12" Damper, Replace	25	22	3	1	EA	$1,400.00	$1,400				$1,400																		**$1,400**
D3060	Throughout building	7415144	Supplemental Components, Air Purifier, Electrostatic, Replace	5	2	3	108	EA	$2,400.00	$259,200				$259,200					$259,200					$259,200					$259,200			**$1,036,800**
D5010	Electrical room	7414945	Automatic Transfer Switch, ATS, Replace	25	10	15	1	EA	$20,000.00	$20,000																$20,000						**$20,000**
D5020	Gymnasium	7414994	Secondary Transformer, Dry, Stepdown, Replace	30	27	3	1	EA	$7,600.00	$7,600				$7,600																		**$7,600**
D5020	Gymnasium	7414975	Secondary Transformer, Dry, Stepdown, Replace	30	27	3	1	EA	$6,700.00	$6,700				$6,700																		**$6,700**
D5020	Electrical room	7415104	Switchboard, 277/480 V, Replace	40	36	4	1	EA	$75,000.00	$75,000					$75,000																	**$75,000**
D5020	Electrical room	7415038	Secondary Transformer, Dry, Stepdown, Replace	30	15	15	1	EA	$20,000.00	$20,000																$20,000						**$20,000**
D5020	IDF Z	7414921	Secondary Transformer, Dry, Stepdown, Replace	30	15	15	1	EA	$25,000.00	$25,000																$25,000						**$25,000**
D5020	Boiler room	7414986	Secondary Transformer, Dry, Stepdown, Replace	30	15	15	1	EA	$6,700.00	$6,700																$6,700						**$6,700**
D5020	Tunnels	7415091	Secondary Transformer, Dry, Stepdown, Replace	30	14	16	1	EA	$6,000.00	$6,000																	$6,000					**$6,000**
D5020	Tunnels	7415010	Secondary Transformer, Dry, Stepdown, Replace	30	14	16	1	EA	$7,600.00	$7,600																	$7,600					**$7,600**
D5020	Tunnels	7415067	Secondary Transformer, Dry, Stepdown, Replace	30	14	16	1	EA	$10,000.00	$10,000																	$10,000					**$10,000**
D5020	Electrical room	7415015	Secondary Transformer, Dry, Stepdown, Replace	30	14	16	1	EA	$7,600.00	$7,600																	$7,600					**$7,600**
D5020	Tunnels	7414950	Secondary Transformer, Dry, Stepdown, Replace	30	14	16	1	EA	$20,000.00	$20,000																	$20,000					**$20,000**
D5020	Gym Mechanical Room	7414977	Motor Control Center, w/ Main Breaker, Replace	30	27	3	1	EA	$15,000.00	$15,000				$15,000																		**$15,000**
D5020	Electrical room	7415099	Distribution Panel, 120/208 V, Replace	30	27	3	1	EA	$7,000.00	$7,000				$7,000																		**$7,000**
D5020	Boiler room	7415127	Motor Control Center, w/ Main Breaker, Replace	30	27	3	1	EA	$15,000.00	$15,000				$15,000																		**$15,000**
D5020	Security Office	7415136	Distribution Panel, 120/208 V, Replace	30	27	3	1	EA	$6,000.00	$6,000				$6,000																		**$6,000**
D5020	IDF Z	7414979	Supplemental Components, Circuit Breaker/Disconnect, Replace	30	27	3	1	EA	$8,000.00	$8,000				$8,000																		**$8,000**
D5020	Cafeteria Mechanical Room	7415081	Motor Control Center, w/ Main Breaker, Replace	30	27	3	1	EA	$15,000.00	$15,000				$15,000																		**$15,000**
D5020	IDF Z	7414961	Distribution Panel, 120/208 V, Replace	30	27	3	1	EA	$8,000.00	$8,000				$8,000																		**$8,000**
D5020	Office Mechanical Room	7415125	Motor Control Center, w/ Main Breaker, Replace	30	27	3	1	EA	$15,000.00	$15,000				$15,000																		**$15,000**
D5020	Gym Mechanical Room	7415111	Motor Control Center, w/ Main Breaker, Replace	30	27	3	1	EA	$15,000.00	$15,000				$15,000																		**$15,000**
D5020	Speech Room	7415098	Distribution Panel, 120/208 V, Replace	30	20	10	1	EA	$6,000.00	$6,000											$6,000											**$6,000**
D5030	Throughout building	7414948	Electrical System, Wiring & Switches, Average or Low Density/Complexity, Replace	40	36	4	230994	SF	$2.50	$577,485					$577,485																	**$577,485**
D5030	Boiler room	7415092	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	4	16	1	EA	$10,000.00	$10,000																	$10,000					**$10,000**
D5030	Boiler room	7414969	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	4	16	1	EA	$10,000.00	$10,000																	$10,000					**$10,000**
D5030	Boiler room	7414924	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	4	16	1	EA	$10,000.00	$10,000																	$10,000					**$10,000**
D5030	Boiler room	7415056	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	4	16	1	EA	$10,000.00	$10,000																	$10,000					**$10,000**
D5030	Boiler room	7415114	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	4	16	1	EA	$10,000.00	$10,000																	$10,000					**$10,000**
D5030	Boiler room	7415107	Variable Frequency Drive, VFD, by HP of Motor, Replace/Install	20	4	16	1	EA	$10,000.00	$10,000																	$10,000					**$10,000**
D5040	Throughout building	7415135	Interior Lighting System, Full Upgrade, Medium Density & Standard Fixtures, Replace	20	13	7	230994	SF	$4.50	$1,039,473								$1,039,473														**$1,039,473**
D6020	Throughout building	7414962	Low Voltage System, Phone & Data Lines, Replace	20	7	13	230994	SF	$1.50	$346,491														$346,491								**$346,491**
D6060	Throughout building	7414968	Intercom/PA System, Public Address Upgrade, Facility-Wide, Replace	20	11	9	230994	SF	$1.65	$381,140										$381,140												**$381,140**
D7010	Building Entrances	7414998	Personnel Access Devices, Metal Detector, Replace	15	10	5	1	EA	$4,000.00	$4,000						$4,000														$4,000		**$8,000**
D7010	Building Entrances	7414937	Personnel Access Devices, Metal Detector, Replace	15	10	5	1	EA	$4,000.00	$4,000						$4,000														$4,000		**$8,000**
D7010	Building Entrances	7414951	Personnel Access Devices, Metal Detector, Replace	15	10	5	1	EA	$4,000.00	$4,000						$4,000														$4,000		**$8,000**
D7010	Building Entrances	7414971	Personnel Access Devices, Metal Detector, Replace	15	10	5	1	EA	$4,000.00	$4,000						$4,000														$4,000		**$8,000**
D7010	Building Entrances	7414955	Personnel Access Devices, Metal Detector, Replace	15	10	5	1	EA	$4,000.00	$4,000						$4,000														$4,000		**$8,000**
D7010	Building Entrances	7415001	Personnel Access Devices, Metal Detector, Replace	15	10	5	1	EA	$4,000.00	$4,000						$4,000														$4,000		**$8,000**
D7030	Throughout building	7415035	Security/Surveillance System, Full System Upgrade, Average Density, Replace	15	4	11	230994	SF	$2.00	$461,988												$461,988										**$461,988**
D7050	Throughout building	7415020	Fire Alarm System, Full System Upgrade, Simple Addressable, Upgrade/Install	20	11	9	230994	SF	$2.00	$461,988										$461,988												**$461,988**
D7050	Office	7415121	Fire Alarm Panel, Fully Addressable, Replace	15	6	9	1	EA	$15,000.00	$15,000										$15,000												**$15,000**

Replacement Reserves Report

5/23/2024

Uniformat Code	Location Description	ID	Cost Description	Lifespan (EUL)	EAge	RUL	Quantity	Unit	Unit Cost *	Subtotal	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	Deficiency Repair Estimate
D8010	Throughout building	7415090	BAS/HVAC Controls, Basic System or Legacy Upgrades, Upgrade/Install	15	11	4	230994	SF	$2.50	$577,485					$577,485															$577,485		**$1,154,970**
E1030	Boys Locker Room	7414956	Laundry Equipment, Dryer, Commercial, Replace	15	12	3	1	EA	$4,000.00	$4,000				$4,000															$4,000			**$8,000**
E1030	Boys Locker Room	7414917	Laundry Equipment, Washer, Commercial, Replace	10	1	9	1	EA	$7,000.00	$7,000										$7,000										$7,000		**$14,000**
E1030	Kitchen	7415016	Foodservice Equipment, Slicer, Replace	10	10	0	1	EA	$3,200.00	$3,200	$3,200										$3,200										$3,200	**$9,600**
E1030	Kitchen	7414974	Foodservice Equipment, Mixer, Tabletop, Replace	20	20	0	1	EA	$3,400.00	$3,400	$3,400																				$3,400	**$6,800**
E1030	Kitchen	7415126	Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich, Replace	15	12	3	1	EA	$4,700.00	$4,700				$4,700															$4,700			**$9,400**
E1030	Kitchen	7415149	Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich, Replace	15	12	3	1	EA	$4,700.00	$4,700				$4,700															$4,700			**$9,400**
E1030	Kitchen	7414996	Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich, Replace	15	12	3	1	EA	$4,700.00	$4,700				$4,700															$4,700			**$9,400**
E1030	Kitchen	7415008	Foodservice Equipment, Griddle, Replace	15	12	3	1	EA	$7,000.00	$7,000				$7,000															$7,000			**$14,000**
E1030	Kitchen	7415074	Foodservice Equipment, Exhaust Hood, 8 to 10 LF, Replace	15	12	3	1	EA	$9,000.00	$9,000				$9,000															$9,000			**$18,000**
E1030	Kitchen	7414923	Foodservice Equipment, Mixer, Freestanding, Replace	25	22	3	1	EA	$14,000.00	$14,000				$14,000																		**$14,000**
E1030	Kitchen	7414930	Foodservice Equipment, Mixer, Freestanding, Replace	25	22	3	1	EA	$14,000.00	$14,000				$14,000																		**$14,000**
E1030	Kitchen	7415030	Foodservice Equipment, Prep Table Refrigerated, Salad/Sandwich, Replace	15	12	3	1	EA	$4,700.00	$4,700				$4,700															$4,700			**$9,400**
E1030	Kitchen	7415129	Foodservice Equipment, Steamer, Freestanding, Replace	10	5	5	1	EA	$10,500.00	$10,500						$10,500										$10,500						**$21,000**
E1030	Kitchen	7415078	Foodservice Equipment, Convection Oven, Single, Replace	10	4	6	1	EA	$5,600.00	$5,600							$5,600										$5,600					**$11,200**
E1030	Kitchen	7415029	Foodservice Equipment, Convection Oven, Single, Replace	10	4	6	1	EA	$5,600.00	$5,600							$5,600										$5,600					**$11,200**
E1030	Kitchen	7415018	Foodservice Equipment, Refrigerator, Undercounter 1-Door, Replace	15	8	7	1	EA	$1,100.00	$1,100								$1,100														**$1,100**
E1030	Kitchen	7415011	Foodservice Equipment, Walk-In, Condenser for Refigerator/Freezer, Replace	15	8	7	1	EA	$6,300.00	$6,300								$6,300														**$6,300**
E1030	Kitchen	7414942	Foodservice Equipment, Walk-In, Condenser for Refigerator/Freezer, Replace	15	8	7	1	EA	$6,300.00	$6,300								$6,300														**$6,300**
E1030	Kitchen	7414920	Foodservice Equipment, Refrigerator, Undercounter 1-Door, Replace	15	8	7	1	EA	$1,100.00	$1,100								$1,100														**$1,100**
E1030	Kitchen	7414949	Foodservice Equipment, Refrigerator, 3-Door Reach-In, Replace	15	8	7	1	EA	$6,400.00	$6,400								$6,400														**$6,400**
E1030	Kitchen	7414958	Foodservice Equipment, Refrigerator, Undercounter 1-Door, Replace	15	8	7	1	EA	$1,100.00	$1,100								$1,100														**$1,100**
E1030	Kitchen	7415088	Foodservice Equipment, Refrigerator, Undercounter 1-Door, Replace	15	8	7	1	EA	$1,100.00	$1,100								$1,100														**$1,100**
E1030	Kitchen	7415142	Foodservice Equipment, Walk-In, Evaporator for Refigerator/Freezer, Replace	15	8	7	1	EA	$4,600.00	$4,600								$4,600														**$4,600**
E1030	Kitchen	7415026	Foodservice Equipment, Walk-In, Evaporator for Refigerator/Freezer, Replace	15	8	7	1	EA	$4,600.00	$4,600								$4,600														**$4,600**
E1030	Kitchen	7415065	Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels, Replace	15	7	8	1	EA	$1,700.00	$1,700									$1,700													**$1,700**
E1030	Kitchen	7414914	Foodservice Equipment, Freezer, 2-Door Reach-In, Replace	15	7	8	1	EA	$5,100.00	$5,100									$5,100													**$5,100**
E1030	Kitchen	7415071	Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels, Replace	15	7	8	1	EA	$1,700.00	$1,700									$1,700													**$1,700**
E1030	Kitchen	7415103	Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels, Replace	15	5	10	1	EA	$1,700.00	$1,700											$1,700											**$1,700**
E1030	Kitchen	7414967	Foodservice Equipment, Food Warmer, Proofing Cabinet on Wheels, Replace	15	5	10	1	EA	$3,400.00	$3,400											$3,400											**$3,400**
E1030	Kitchen	7414940	Foodservice Equipment, Food Warmer, Proofing Cabinet, Replace	15	5	10	1	EA	$3,400.00	$3,400											$3,400											**$3,400**
E1030	Kitchen	7415025	Foodservice Equipment, Tilting Skillet, Replace	20	9	11	1	EA	$24,500.00	$24,500												$24,500										**$24,500**
E1030	Kitchen	7415039	Foodservice Equipment, Freezer, 3-Door Reach-In, Replace	15	4	11	1	EA	$6,800.00	$6,800												$6,800										**$6,800**
E1030	Kitchen	7415058	Foodservice Equipment, Refrigerator, 3-Door Reach-In, Replace	15	4	11	1	EA	$6,400.00	$6,400												$6,400										**$6,400**
E1030	Kitchen	7415060	Foodservice Equipment, Walk-In, Refrigerator, Replace	20	8	12	1	EA	$15,000.00	$15,000													$15,000									**$15,000**
E1030	Kitchen	7415128	Foodservice Equipment, Walk-In, Freezer, Replace	20	8	12	1	EA	$25,000.00	$25,000													$25,000									**$25,000**
E1030	Kitchen	7415083	Foodservice Equipment, Broiler, Replace	15	3	12	1	EA	$25,200.00	$25,200													$25,200									**$25,200**
E1030	Kitchen	7414925	Foodservice Equipment, Broiler, Replace	15	3	12	1	EA	$8,400.00	$8,400													$8,400									**$8,400**
E1030	Kitchen	7414919	Foodservice Equipment, Dairy Cooler/Wells, Replace	15	2	13	1	EA	$3,600.00	$3,600														$3,600								**$3,600**
E1040	Art Room	7414929	Ceramics Equipment, Kiln, Replace	20	1	19	1	EA	$3,200.00	$3,200																				$3,200		**$3,200**
E1040	Office	7415003	Healthcare Equipment, Defibrillator (AED), Cabinet-Mounted, Replace	10	3	7	1	EA	$1,500.00	$1,500								$1,500														**$3,000**
E2010	Science Classrooms	7415079	Casework, Countertop, Solid Surface, Replace	40	35	5	350	LF	$110.00	$38,500						$38,500																**$38,500**
E2010	Throughout building	7415147	Casework, Cabinetry Economy, Replace	20	14	6	440	LF	$175.00	$77,000							$77,000															**$77,000**
E2010	Throughout building	7415132	Casework, Countertop, Plastic Laminate, Replace	15	9	6	90	LF	$50.00	$4,500							$4,500															**$4,500**
E2010	Home Education	7414932	Casework, Cabinetry, Hardwood Standard, Replace	20	6	14	60	LF	$300.00	$18,000															$18,000							**$18,000**
E2010	Theatres	7414990	Fixed Seating, Auditorium/Theater, Metal Cushioned Standard, Replace	20	17	3	795	EA	$350.00	$278,250				$278,250																		**$278,250**
E2010	Gymnasium	7414957	Bleachers, Telescoping Power-Operated, up to 15 Tier (per Seat), Replace	20	7	13	590	EA	$450.00	$265,500																						**$265,500**
G2050	Gymnasium	7415084	Sports Apparatus, Player/Dugout Benches, 12' Length, Replace	15	12	3	16	EA	$450.00	$7,200				$7,200																$7,200		**$14,400**
G2050	Parking lot	7415087	Sports Apparatus, Basketball, Backboard/Rim/Pole, Replace	25	20	5	3	EA	$9,500.00	$28,500						$28,500																**$28,500**
G2050	Gymnasium	7414912	Sports Apparatus, Basketball, Backboard/Rim/Pole, Replace	25	13	12	6	EA	$9,500.00	$57,000												$57,000										**$57,000**
G2050	Gymnasium	7415137	Sports Apparatus, Scoreboard, Electronic Standard, Replace	25	10	15	2	EA	$8,000.00	$16,000																$16,000						**$16,000**
G2060	Site	7415061	Picnic Table, Wood/Composite/Fiberglass, Replace	20	19	1	19	EA	$600.00	$11,400		$11,400																				**$11,400**
G2060	Site	7415041	Park Bench, Wood/Composite/Fiberglass, Replace	20	19	1	10	EA	$600.00	$6,000		$6,000																				**$6,000**
G2060	Site	7415101	Picnic Table, Metal Powder-Coated, Replace	20	5	15	21	EA	$700.00	$14,700																$14,700						**$14,700**
G4050	Building Exterior	7414916	Exterior Fixture w/ Lamp, any type, w/ LED Replacement, Replace	20	19	1	98	EA	$600.00	$58,800		$58,800																				**$58,800**
P2030	Classrooms	7414943	Consultant, Environmental, Analysis of Suspect Fungal Growth, Evaluate/Report	0	0	0	1	EA	$3,500.00	$3,500	$3,500																					**$3,500**
P2030	Throughout building	7415150	Engineering Study, Environmental, Asbestos (ACM) & Lead Base Paint (LBP), Evaluate/Report	0	0	0	1	EA	$15,000.00	$15,000	$15,000																					**$15,000**

Replacement Reserves Report

5/23/2024

Uniformat Code	Location Description	ID	Cost Description	Lifespan (EUL)	EAge	RUL	Quantity	Unit	Unit Cost *	Subtotal	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	Deficiency Repair Estimate
P2030	Building exterior	7414999	Engineering Study, Structural, General Design, Design	0	0	0	1	EA	$7,000.00	$7,000	$7,000																					$7,000
Totals, Unescalated											**$2,577,370**	**$4,164,302**	**$2,543,934**	**$1,918,750**	**$3,937,970**	**$1,371,700**	**$1,425,450**	**$1,957,931**	**$268,500**	**$872,428**	**$4,508,900**	**$517,688**	**$193,700**	**$1,066,541**	**$34,600**	**$230,350**	**$1,234,150**	**$555,900**	**$305,200**	**$587,685**	**$7,906,822**	**$38,179,871**
Totals, Escalated (3.0% inflation, compounded annually)											**$2,577,370**	**$4,289,231**	**$2,698,860**	**$2,096,670**	**$4,432,220**	**$1,590,176**	**$1,702,062**	**$2,408,008**	**$340,128**	**$1,138,321**	**$6,059,585**	**$716,601**	**$276,170**	**$1,566,251**	**$52,336**	**$358,878**	**$1,980,448**	**$918,818**	**$519,583**	**$1,030,509**	**$14,280,600**	**$51,032,824**

John Marshall High School / Site

Uniformat Code	Location Description	ID	Cost Description	Lifespan (EUL)	EAge	RUL	Quantity	Unit	Unit Cost *	Subtotal	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	Deficiency Repair Estimate
E2010	Sports Fields	7414938	Bleachers, Fixed Steel Frame, Aluminum Benches (per Seat), Replace	25	13	12	3700	EA	$120.00	$444,000													$444,000										**$444,000**
F1020	Sports Fields	7414953	Shed/Gazebo/Shade Structure, Wood or Metal-Framed, Standard, Replace	30	19	11	200	SF	$50.00	$10,000												$10,000											**$10,000**
G2020	Parking lot	7415007	Parking Lots, Pavement, Asphalt, Seal & Stripe	5	5	0	155300	SF	$0.45	$69,885	$69,885					$69,885					$69,885					$69,885					$69,885	**$349,425**
G2020	Parking lot	7415066	Parking Lots, Pavement, Asphalt, Mill & Overlay	25	20	5	155300	SF	$3.50	$543,550						$543,550																**$543,550**
G2030	Walkways	7415023	Sidewalk, any pavement type, Sectional Repairs (per Man-Day), Repair	0	0	0	3	EA	$1,000.00	$3,000	$3,000																						**$3,000**
G2050	Tennis Courts	7415139	Athletic Surfaces & Courts, Tennis/Volleyball, 2-Color Surface, Seal & Stripe	10	9	1	25000	SF	$1.50	$37,500		$37,500										$37,500											**$75,000**
G2050	Sports Fields	7415134	Sports Apparatus, Baseball, Backstop Chain-Link, Replace	20	17	3	2	EA	$5,000.00	$10,000				$10,000																			**$10,000**
G2050	Sports Fields	7415085	Sports Apparatus, Baseball, Batting Cage, Replace	15	12	3	1	EA	$1,500.00	$1,500				$1,500																$1,500			**$3,000**
G2050	Sports Fields	7414918	Sports Apparatus, Player/Dugout Benches, 12' Length, Replace	15	10	5	8	EA	$450.00	$3,600						$3,600															$3,600		**$7,200**
G2050	Sports Fields	7415112	Athletic Surfaces & Courts, Track Surface, Rubber, Replace	10	3	7	49000	SF	$5.00	$245,000								$245,000											$245,000				**$490,000**
G2050	Sports Fields	7415077	Sports Apparatus, Baseball, Foul Pole, Replace	25	17	8	2	EA	$1,500.00	$3,000									$3,000														**$3,000**
G2050	Sports Fields	7414987	Sports Apparatus, Football, Goal Post, Replace	25	16	9	2	EA	$5,000.00	$10,000										$10,000													**$10,000**
G2060	Building exterior	7415141	Trash Receptacle, Medium-Duty Metal or Precast, Replace	20	14	6	4	EA	$700.00	$2,800							$2,800																**$2,800**
G2060	Tennis Courts	7414978	Fences & Gates, Fence, Chain Link 8', Replace	40	29	11	650	LF	$25.00	$16,250												$16,250											**$16,250**
G2060	Site	7415032	Flagpole, Metal, Replace	30	15	15	1	EA	$2,500.00	$2,500																$2,500							**$2,500**
G2060	Site	7415148	Signage, Property, Pylon Robust/Electronic Programmable, Replace/Install	20	3	17	1	EA	$25,000.00	$25,000																		$25,000					**$25,000**
G4050	Parking lot	7415115	Pole Light Fixture w/ Lamps, any type 20' High, w/ LED Replacement, Replace/Install	20	5	15	4	EA	$4,200.00	$16,800																$16,800							**$16,800**
Totals, Unescalated											**$72,885**	**$37,500**	**$0**	**$11,500**	**$0**	**$617,035**	**$2,800**	**$245,000**	**$3,000**	**$10,000**	**$69,885**	**$63,750**	**$444,000**	**$0**	**$0**	**$89,185**	**$0**	**$270,000**	**$1,500**	**$0**	**$73,485**	**$2,011,525**
Totals, Escalated (3.0% inflation, compounded annually)											**$72,885**	**$38,625**	**$0**	**$12,566**	**$0**	**$715,313**	**$3,343**	**$301,319**	**$3,800**	**$13,048**	**$93,920**	**$88,245**	**$633,038**	**$0**	**$0**	**$138,947**	**$0**	**$446,269**	**$2,554**	**$0**	**$132,722**	**$2,696,594**

Appendix F:
Equipment Inventory List

D10 Conveying

Index	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Dataplate Yr	Barcode	Qty
1	7415089	D1010	**Elevator Controls**	Automatic, 1 Car		John Marshall High School / Main Building	Elevator	Dover Elevators	No dataplate	No dataplate		3454	
2	7415118	D1010	**Passenger Elevator**	Hydraulic, 2 Floors	2100 LB	John Marshall High School / Main Building	Elevator	Dover Elevators	17887	12145		3450	

D20 Plumbing

Index	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Dataplate Yr	Barcode	Qty
1	7415124	D2010	**Water Heater**	Electric, Commercial (12 kW)	50 GAL	John Marshall High School / Main Building	Tunnels	State Industries, Inc.	ESS 52D0RT	D04319414	2004	3470	
2	7414989	D2010	**Water Heater**	Gas, Commercial (200 MBH)	100 GAL	John Marshall High School / Main Building	Boiler room	A. O. Smith	BTR 200 110	G04M011023	2005	3542	
3	7415123	D2010	**Water Heater**	Gas, Commercial (200 MBH)	199 GAL	John Marshall High School / Main Building	Boiler room	A. O. Smith	BTH-199 300	1812109686118	2018	3543	
4	7414926	D2010	**Backflow Preventer**	Domestic Water	2 IN	John Marshall High School / Main Building	Boiler room	Watts Regulator	90911101	349176		3555	
5	7415109	D2010	**Backflow Preventer**	Domestic Water	2 IN	John Marshall High School / Main Building	Boiler room	Watts Regulator	909M1	449863		3472	
6	7415080	D2030	**Pump**	Sump	3 HP	John Marshall High School / Main Building	Boiler room	Inaccessible	Inaccessible	Inaccessible			
7	7415052	D2060	**Air Compressor**	Tank-Style	10 HP	John Marshall High School / Main Building	Boiler room	General Electric	5K 4256A2A5	118629 XR		3471	
8	7415042	D2060	**Air Compressor**	Tank-Style	5 HP	John Marshall High School / Main Building	Boiler room	DeVil Biss	J0B0 5000	A 2 148		3479	
9	7415095	D2060	**Air Compressor**	Tank-Style	3 HP	John Marshall High School / Main Building	Boiler room	Dayton	2MXU4B	Illegible		3475	
10	7415024	D2060	**Supplemental Components**	Compressed Air Dryer, Process Support	10 CFM	John Marshall High School / Main Building	Boiler room	Hankison	HPR15	H015A1151501002		3465	

D30 HVAC

Index	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Dataplate Yr	Barcode	Qty
1	7415006	D3020	**Boiler**	Gas, HVAC	6700 MBH	John Marshall High School / Main Building	Boiler room	Burnham Corporation	5W-200-50-G-GP	738201		3556	
2	7415068	D3020	**Boiler**	Gas, HVAC	6700 MBH	John Marshall High School / Main Building	Boiler room	Burnham Corporation	5W-200-50-G-GP	738197		3552	
3	7414944	D3020	**Radiator**	Hydronic, Baseboard (per LF)		John Marshall High School / Main Building	Throughout building						275
4	7415120	D3020	**Unit Heater**	Electric	5 KW	John Marshall High School / Main Building	Chiller Room	Inaccessible	Inaccessible	Inaccessible		3496	
5	7415130	D3020	**Unit Heater**	Hydronic	80 MBH	John Marshall High School / Main Building	Gym Mechanical Room	Trane	80H	Inaccessible		3600	
6	7415069	D3020	**Unit Heater**	Hydronic	50 MBH	John Marshall High School / Main Building	Boiler room	Inaccessible	Inaccessible	Inaccessible			3
7	7415028	D3020	**Unit Heater**	Hydronic	84 MBH	John Marshall High School / Main Building	Cafeteria Mechanical Room	Trane	84H	122130		3577	
8	7415076	D3020	**Unit Heater**	Hydronic	80 MBH	John Marshall High School / Main Building	Auditorium Mechanical Room	Trane	Inaccessible	Inaccessible		3455	
9	7414934	D3020	**Unit Heater**	Hydronic	80 MBH	John Marshall High School / Main Building	Gym Mechanical Room	Trane	80H	122129		3591	
10	7415145	D3020	**Unit Heater**	Hydronic	80 MBH	John Marshall High School / Main Building	Office Mechanical Room	Trane	Inaccessible	Inaccessible			
11	7414980	D3020	**Boiler Supplemental Components**	Chemical Feed System		John Marshall High School / Main Building	Boiler room	Pulsatron	XSCF3E6	0385882L22-012		3553	
12	7414952	D3020	**Boiler Supplemental Components**	Expansion Tank	250 GAL	John Marshall High School / Main Building	Boiler room	Richmond	60RE 942	L-00129	1959	3480	
13	7415050	D3020	**Boiler Supplemental Components**	Expansion Tank	40 GAL	John Marshall High School / Main Building	Boiler room	Bell & Gossett	NA	89673	2000	3473	
14	7415017	D3020	**Boiler Supplemental Components**	Expansion Tank	40 GAL	John Marshall High School / Main Building	Boiler room	Bell & Gossett	NA	89672	2000	3477	

15	7415138	D3020	**Boiler Supplemental Components**	Expansion Tank	3000 GAL	John Marshall High School / Main Building	Boiler room	Richmond	59RF2468	K172241K2	1959	3476
16	7414984	D3030	**Chiller**	Water-Cooled	250 TON	John Marshall High School / Main Building	Chiller Room	Daikin Industries	WMC250DCN-ER0B	STNU160200181	2016	3499
17	7415046	D3030	**Chiller**	Water-Cooled	250 TON	John Marshall High School / Main Building	Chiller Room	Daikin Industries	WMC250DCN-ER0B	STNU1602001839	2016	3498
18	7414972	D3030	**Cooling Tower**	(Typical) Open Circuit	276 TON	John Marshall High School / Main Building	Building exterior	BAC	S15E-1285-09MN-2/	U203453002-01-02	2020	3564
19	7415014	D3030	**Cooling Tower**	(Typical) Open Circuit	276 TON	John Marshall High School / Main Building	Building exterior	BAC	S15E-1285-09MN-2/	U203453002-01-01	2020	3563
20	7414985	D3050	**Pump**	Distribution, HVAC Chilled or Condenser Water	20 HP	John Marshall High School / Main Building	Boiler room	Bell & Gossett	HSC3 940 8.2	Inaccessible	2016	3464
21	7415009	D3050	**Pump**	Distribution, HVAC Chilled or Condenser Water	20 HP	John Marshall High School / Main Building	Boiler room	Bell & Gossett	HSC3 940 8.2	C302689-02 G02	2016	3462
22	7414935	D3050	**Pump**	Distribution, HVAC Chilled or Condenser Water	20 HP	John Marshall High School / Main Building	Boiler room	Bell & Gossett	HSC3 940 8.2	C302689-01 G02	2016	3461
23	7414922	D3050	**Pump**	Distribution, HVAC Chilled or Condenser Water	20 HP	John Marshall High School / Main Building	Boiler room	Bell & Gossett	HSC3 940 8.2	C302688-01 G02	2016	3463
24	7415072	D3050	**Pump**	Distribution, HVAC Heating Water	30 HP	John Marshall High School / Main Building	Boiler room	Taco	TA1530836 B2L0	Illegible	2003	3541
25	7414963	D3050	**Pump**	Distribution, HVAC Heating Water	30 HP	John Marshall High School / Main Building	Boiler room	Taco	TA1530836 B2L0	82637	2003	3545
26	7415105	D3050	**Air Handler**	Interior AHU, Easy/Moderate Access	5300 CFM	John Marshall High School / Main Building	Gym Mechanical Room	Marlo	FH-1853	M-73101	1959	3593
27	7415122	D3050	**Air Handler**	Interior AHU, Easy/Moderate Access	4000 CFM	John Marshall High School / Main Building	Office Mechanical Room	Marlo	FH-1452	M-73101	1959	3571
28	7414960	D3050	**Air Handler**	Interior AHU, Easy/Moderate Access	5300 CFM	John Marshall High School / Main Building	Gym Mechanical Room	Marlo	F-1153	M-73101	1959	3599
29	7415048	D3050	**Air Handler**	Interior AHU, Easy/Moderate Access	4000 CFM	John Marshall High School / Main Building	Auditorium Mechanical Room	Marlo	CH-672	M-73101		3451

30	7415036	D3050	**Air Handler**	Interior AHU, Easy/Moderate Access	7000 CFM	John Marshall High School / Main Building	Cafeteria Mechanical Room	Marlo	F-1153	M-76101	1959	3559	
31	7415133	D3050	**Air Handler**	Interior AHU, Easy/Moderate Access	6000 CFM	John Marshall High School / Main Building	Office Mechanical Room	Marlo	FH-1742	M-73101	1959	3565	
32	7415097	D3050	**Air Handler**	Interior AHU, Easy/Moderate Access	3000 CFM	John Marshall High School / Main Building	Gym Mechanical Room	Marlo	FH-45	Illegible	1959	3594	
33	7415116	D3050	**Air Handler**	Interior AHU, Easy/Moderate Access	3000 CFM	John Marshall High School / Main Building	Gym Mechanical Room	Marlo	FH-1332	M73101	1959	3598	
34	7415119	D3050	**Air Handler**	Interior AHU, Easy/Moderate Access	7000 CFM	John Marshall High School / Main Building	Office Mechanical Room	Marlo	CH 174 2	-73101	1959	3566	
35	7415096	D3050	**Air Handler**	Interior AHU, Easy/Moderate Access	7000 CFM	John Marshall High School / Main Building	Auditorium Mechanical Room	No dataplate	No dataplate	No dataplate		3447	
36	7415057	D3050	**Air Handler**	Interior AHU, Easy/Moderate Access	4000 CFM	John Marshall High School / Main Building	Auditorium Mechanical Room	Marlo	C77H51	M-73101		3458	
37	7414933	D3050	**Fan Coil Unit**	Hydronic Terminal	2500 CFM	John Marshall High School / Main Building	Throughout building				1980		148
38	7414965	D3050	**Packaged Unit**	RTU, Pad or Roof-Mounted	4 TON	John Marshall High School / Main Building	South Courtyard	Carrier	No dataplate	No dataplate		3456	
39	7414991	D3050	**Packaged Unit**	RTU, Pad or Roof-Mounted	4 TON	John Marshall High School / Main Building	South Courtyard	Carrier	No dataplate	No dataplate		3452	
40	7415086	D3050	**Packaged Unit**	RTU, Pad or Roof-Mounted	2 TON	John Marshall High School / Main Building	Roof	Nordyne	GP7RD-024KA	EGPF130801036	2013	3589	
41	7415064	D3050	**Packaged Unit**	RTU, Pad or Roof-Mounted	4 TON	John Marshall High School / Main Building	South Courtyard	Carrier	No dataplate	No dataplate		3460	
42	7415027	D3060	**Exhaust Fan**	Centrifugal, 12" Damper	1000 CFM	John Marshall High School / Main Building	Cafeteria Mechanical Room	Trane	31	112963	1959	3560	
43	7415051	D3060	**Exhaust Fan**	Centrifugal, 12" Damper	850 CFM	John Marshall High School / Main Building	Auditorium Projector Room	Trane	31	112964		3457	
44	7415043	D3060	**Exhaust Fan**	Centrifugal, 16" Damper	1500 CFM	John Marshall High School / Main Building	Cafeteria Mechanical Room	Trane	31	112969	1959	3580	

45	7415005	D3060	**Exhaust Fan**	Centrifugal, 16" Damper	1500 CFM	John Marshall High School / Main Building	Cafeteria Mechanical Room	Trane	31	112967	1959	3576
46	7414928	D3060	**Exhaust Fan**	Centrifugal, 16" Damper	1500 CFM	John Marshall High School / Main Building	Office Mechanical Room	Trane	31	112956	1959	3567
47	7414941	D3060	**Exhaust Fan**	Centrifugal, 16" Damper	1500 CFM	John Marshall High School / Main Building	Cafeteria Mechanical Room	Trane	31	112968	1959	3575
48	7415094	D3060	**Exhaust Fan**	Centrifugal, 16" Damper	1500 CFM	John Marshall High School / Main Building	Cafeteria Mechanical Room	Trane	31	112961	1959	3574
49	7415143	D3060	**Exhaust Fan**	Centrifugal, 16" Damper	1500 CFM	John Marshall High School / Main Building	Cafeteria Mechanical Room	Trane	31	112962	1959	3573
50	7414947	D3060	**Exhaust Fan**	Centrifugal, 16" Damper	2500 CFM	John Marshall High School / Main Building	Gym Mechanical Room	Trane	61	412960		3592
51	7415047	D3060	**Exhaust Fan**	Centrifugal, 24" Damper	2500 CFM	John Marshall High School / Main Building	Cafeteria Mechanical Room	Trane	21	112957	1959	3578
52	7414913	D3060	**Exhaust Fan**	Centrifugal, 24" Damper	2500 CFM	John Marshall High School / Main Building	Office Mechanical Room	Trane	31	112958	1959	3572
53	7414981	D3060	**Exhaust Fan**	Centrifugal, 36"Damper	12000 CFM	John Marshall High School / Main Building	Roof	Trane	31	112970	1959	3570
54	7415019	D3060	**Exhaust Fan**	Centrifugal, 42" Damper	18000 CFM	John Marshall High School / Main Building	Gym Mechanical Room	Trane	21	112966		3597
55	7415110	D3060	**Exhaust Fan**	Centrifugal, 42" Damper	18000 CFM	John Marshall High School / Main Building	Gym Mechanical Room	Trane	21	112965		3596
56	7415055	D3060	**Exhaust Fan**	Roof or Wall-Mounted, 10" Damper	350 CFM	John Marshall High School / Main Building	Roof	Penn Ventilator Company	20			3448
57	7415140	D3060	**Exhaust Fan**	Roof or Wall-Mounted, 16" Damper	2000 CFM	John Marshall High School / Main Building	Boiler room	Inaccessible	Inaccessible	Inaccessible		
58	7414959	D3060	**Exhaust Fan**	Roof or Wall-Mounted, 16" Damper	1500 CFM	John Marshall High School / Main Building	Boiler room	ILG Industries	243YAR	160024AA		3469
59	7415093	D3060	**Exhaust Fan**	Roof or Wall-Mounted, 16" Damper	1500 CFM	John Marshall High School / Main Building	Boiler room	ILG Industries	243YAR	160023AA		3466

60	7414954	D3060	**Exhaust Fan**	Roof or Wall-Mounted, 24" Damper	5000 CFM	John Marshall High School / Main Building	Roof	Penn Ventilator Company	25	NA		3444	
61	7415106	D3060	**Exhaust Fan**	Roof or Wall-Mounted, 24" Damper	5000 CFM	John Marshall High School / Main Building	Roof	Penn Ventilator Company	25	NA		3459	
62	7415144	D3060	**Supplemental Components**	Air Purifier, Electrostatic	600 CFM	John Marshall High School / Main Building	Throughout building	Carrier	FN1AAF006				108

D50 Electrical

Index	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Dataplate Yr	Barcode	Qty
1	7415070	D5010	**Generator**	Diesel	35 KW	John Marshall High School / Main Building	Building exterior	Cummins	Inaccessible	Inaccessible	2020	3562	
2	7414945	D5010	**Automatic Transfer Switch**	ATS	400 AMP	John Marshall High School / Main Building	Electrical room	Cummins	Inaccessible	Inaccessible		3482	
3	7415010	D5020	**Secondary Transformer**	Dry, Stepdown	45 KVA	John Marshall High School / Main Building	Tunnels	Powersmiths	Esaver-1 PH-C3L-50-480-120/240	31645	2010	3478	
4	7414950	D5020	**Secondary Transformer**	Dry, Stepdown	150 KVA	John Marshall High School / Main Building	Tunnels	Powersmiths	Esaver-C3L-150-480-208-A	31648	2010	3495	
5	7415015	D5020	**Secondary Transformer**	Dry, Stepdown	45 KVA	John Marshall High School / Main Building	Electrical room	Powersmiths	ESaver-C3L-45-480-208-A	31647	2010	3403	
6	7414975	D5020	**Secondary Transformer**	Dry, Stepdown	30 KVA	John Marshall High School / Main Building	Gymnasium	Westinghouse	2342384003	59 M 398	1959		
7	7415038	D5020	**Secondary Transformer**	Dry, Stepdown	150 KVA	John Marshall High School / Main Building	Electrical room	Powersmiths	Esaver-C3L-150-480-208-A	##210	2009	3557	
8	7414986	D5020	**Secondary Transformer**	Dry, Stepdown	30 KVA	John Marshall High School / Main Building	Boiler room	Powersmiths	ESaver-C3L-30-480-208-A	31627	2009	3549	
9	7414994	D5020	**Secondary Transformer**	Dry, Stepdown	45 KVA	John Marshall High School / Main Building	Gymnasium	Westinghouse	234A 201604	5918085	1959	3586	
10	7414921	D5020	**Secondary Transformer**	Dry, Stepdown	225 KVA	John Marshall High School / Main Building	IDF Z	Powersmiths	Esaver-C3L-225-480-208-SP	31653	2009	3442	
11	7415091	D5020	**Secondary Transformer**	Dry, Stepdown	15 KVA	John Marshall High School / Main Building	Tunnels	Powersmiths	Esaver-C3L-15-480-208	31642	2010	3492	

12	7415067	D5020	**Secondary Transformer**	Dry, Stepdown	75 KVA	John Marshall High School / Main Building	Tunnels	Powersmiths	Esaver-C3L-75-480-208-A	31651	2010	3474
13	7415104	D5020	**Switchboard**	277/480 V	1600 AMP	John Marshall High School / Main Building	Electrical room	Westinghouse	No dataplate	No dataplate		
14	7415136	D5020	**Distribution Panel**	120/208 V	400 AMP	John Marshall High School / Main Building	Security Office	Westinghouse	NDP-NEAL4L-400	V-768227		3445
15	7415099	D5020	**Distribution Panel**	120/208 V	600 AMP	John Marshall High School / Main Building	Electrical room	Westinghouse	CDP	V 767809		3481
16	7414961	D5020	**Distribution Panel**	120/208 V	800 AMP	John Marshall High School / Main Building	IDF Z	Westinghouse	CDP	V763236		3441
17	7415098	D5020	**Distribution Panel**	120/208 V	400 AMP	John Marshall High School / Main Building	Speech Room	Eaton Cutler-Hammer	YS2060	SRM53972-1	2004	3402
18	7415111	D5020	**Motor Control Center**	w/ Main Breaker	800 AMP	John Marshall High School / Main Building	Gym Mechanical Room	Westinghouse	No dataplate	No dataplate		3590
19	7414977	D5020	**Motor Control Center**	w/ Main Breaker	400 AMP	John Marshall High School / Main Building	Gym Mechanical Room	Westinghouse	No dataplate	No dataplate	1959	3595
20	7415125	D5020	**Motor Control Center**	w/ Main Breaker	800 AMP	John Marshall High School / Main Building	Office Mechanical Room	Westinghouse	No dataplate	No dataplate	1959	3569
21	7415127	D5020	**Motor Control Center**	w/ Main Breaker	800 AMP	John Marshall High School / Main Building	Boiler room	Square D	13697604-014	M-991580	1980	3550
22	7415081	D5020	**Motor Control Center**	w/ Main Breaker	400 AMP	John Marshall High School / Main Building	Cafeteria Mechanical Room	Westinghouse	No dataplate	No dataplate		3579
23	7415092	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	20 HP	John Marshall High School / Main Building	Boiler room	AAB	ACH580-VCR-027A-4+F267	2202700083	2020	3548
24	7415107	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	20 HP	John Marshall High School / Main Building	Boiler room	AAB	ACH580-VCR-027A-4+F267	2202700059	2020	3468
25	7415114	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	20 HP	John Marshall High School / Main Building	Boiler room	AAB	ACH580-VCR-027A-4+F267	2202700063	2020	3544
26	7415056	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	20 HP	John Marshall High School / Main Building	Boiler room	AAB	ACH580-VCR-027A-4+F267	2202700046	2020	3467

27	7414924	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	20 HP	John Marshall High School / Main Building	Boiler room	AAB	ACH580-VCR-027A-4+F267	2202700053	2020	3500	
28	7414969	D5030	**Variable Frequency Drive**	VFD, by HP of Motor	20 HP	John Marshall High School / Main Building	Boiler room	AAB	ACH580-VCR-027A-4+F267	2202700049	2020	3546	

D70 Electronic Safety & Security

Index	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Dataplate Yr	Barcode	Qty
1	7415121	D7050	**Fire Alarm Panel**	Fully Addressable		John Marshall High School / Main Building	Office	EST	NA	NA		3404	

E10 Equipment

Index	ID	UFCode	Component Description	Attributes	Capacity	Building	Location Detail	Manufacturer	Model	Serial	Dataplate Yr	Barcode	Qty
1	7414956	E1030	**Laundry Equipment**	Dryer, Commercial	30 LB	John Marshall High School / Main Building	Boys Locker Room	Huebsch	HT050NMTB1G1W05	0509015292	2005		
2	7414917	E1030	**Laundry Equipment**	Washer, Commercial	40 LB	John Marshall High School / Main Building	Boys Locker Room	Continental Girbau	RMG040P1102111001	2371418N18	2023	3587	
3	7415083	E1030	**Foodservice Equipment**	Broiler		John Marshall High School / Main Building	Kitchen	Welbilt	C4 eT 6.20 GS	WS219064390	2021	3425	
4	7414925	E1030	**Foodservice Equipment**	Broiler		John Marshall High School / Main Building	Kitchen	Welbilt	C4 eT 6 20 GS	WS219064391	2021	3429	
5	7415078	E1030	**Foodservice Equipment**	Convection Oven, Single		John Marshall High School / Main Building	Kitchen	Garland	SUMG-100	2001100101862	2020	3422	
6	7415029	E1030	**Foodservice Equipment**	Convection Oven, Single		John Marshall High School / Main Building	Kitchen	Garland	SUMG-100	2001100101863	2020	3421	
7	7414919	E1030	**Foodservice Equipment**	Dairy Cooler/Wells		John Marshall High School / Main Building	Kitchen	Delfield	NLFACP-16	2211820101997	2022	3417	
8	7415074	E1030	**Foodservice Equipment**	Exhaust Hood, 8 to 10 LF		John Marshall High School / Main Building	Kitchen	No dataplate	No dataplate	No dataplate		3426	
9	7414940	E1030	**Foodservice Equipment**	Food Warmer, Proofing Cabinet		John Marshall High School / Main Building	Kitchen	Hatco	GRPHS-4824T	5952741935	2019	3413	
10	7414967	E1030	**Foodservice Equipment**	Food Warmer, Proofing Cabinet on Wheels		John Marshall High School / Main Building	Kitchen	Hatco	GRPWS-4824T	5952751935	2019	3435	

11	7415071	E1030	**Foodservice Equipment**	Food Warmer, Proofing Cabinet on Wheels	John Marshall High School / Main Building	Kitchen	Metro	NA	C5HME026453	2017	3411
12	7415065	E1030	**Foodservice Equipment**	Food Warmer, Proofing Cabinet on Wheels	John Marshall High School / Main Building	Kitchen	Metro		C5HME026501	2017	3440
13	7415103	E1030	**Foodservice Equipment**	Food Warmer, Proofing Cabinet on Wheels	John Marshall High School / Main Building	Kitchen	Metro	NA	C5HME034041	2019	3414
14	7414914	E1030	**Foodservice Equipment**	Freezer, 2-Door Reach-In	John Marshall High School / Main Building	Kitchen	Hobart	QF2	32-1056746		3433
15	7415039	E1030	**Foodservice Equipment**	Freezer, 3-Door Reach-In	John Marshall High School / Main Building	Kitchen	Manitowoc	GBF3-S	1120094903	2020	3434
16	7415008	E1030	**Foodservice Equipment**	Griddle	John Marshall High School / Main Building	Kitchen	Garland	No dataplate	No dataplate		3423
17	7414930	E1030	**Foodservice Equipment**	Mixer, Freestanding	John Marshall High School / Main Building	Kitchen	Hobart	H-600-T	1326832		3438
18	7414923	E1030	**Foodservice Equipment**	Mixer, Freestanding	John Marshall High School / Main Building	Kitchen	Hobart	H-600	1330003		3424
19	7414974	E1030	**Foodservice Equipment**	Mixer, Tabletop	John Marshall High School / Main Building	Kitchen	Hobart	120	532616		3420
20	7415030	E1030	**Foodservice Equipment**	Prep Table Refrigerated, Salad/Sandwich	John Marshall High School / Main Building	Kitchen	Randell	9560-4M	T34372-1-3		3436
21	7415126	E1030	**Foodservice Equipment**	Prep Table Refrigerated, Salad/Sandwich	John Marshall High School / Main Building	Kitchen	Southern Engineering Systems	82649-50-L0C 28	NA		3415
22	7415149	E1030	**Foodservice Equipment**	Prep Table Refrigerated, Salad/Sandwich	John Marshall High School / Main Building	Kitchen	Southern Equipment	82650-50-L0C 28	NA		3410
23	7414996	E1030	**Foodservice Equipment**	Prep Table Refrigerated, Salad/Sandwich	John Marshall High School / Main Building	Kitchen	Southern Engineering Systems	82649-50-L0C 28	NA		3439
24	7415058	E1030	**Foodservice Equipment**	Refrigerator, 3-Door Reach-In	John Marshall High School / Main Building	Kitchen	Welbilt	GBR3P-S	1120584422	2020	3428
25	7414949	E1030	**Foodservice Equipment**	Refrigerator, 3-Door Reach-In	John Marshall High School / Main Building	Kitchen	Victory	SR-72-S4	B-6320826		3418

26	7415088	E1030	**Foodservice Equipment**	Refrigerator, Undercounter 1-Door	John Marshall High School / Main Building	Kitchen	True Manufacturing Co	GDM-07	6679804		3412
27	7415018	E1030	**Foodservice Equipment**	Refrigerator, Undercounter 1-Door	John Marshall High School / Main Building	Kitchen	True Manufacturing Co	GDM-07	6798033		3416
28	7414958	E1030	**Foodservice Equipment**	Refrigerator, Undercounter 1-Door	John Marshall High School / Main Building	Kitchen	True Manufacturing Co	GDM-07	6799711		3432
29	7414920	E1030	**Foodservice Equipment**	Refrigerator, Undercounter 1-Door	John Marshall High School / Main Building	Kitchen	True Manufacturing Co	GDM-07	6679803		3437
30	7415016	E1030	**Foodservice Equipment**	Slicer	John Marshall High School / Main Building	Kitchen	Hobart	Inaccessible	Inaccessible		3419
31	7415129	E1030	**Foodservice Equipment**	Steamer, Freestanding	John Marshall High School / Main Building	Kitchen	Cleveland Range	24CGM200	Wc14147-91H-01		3427
32	7415025	E1030	**Foodservice Equipment**	Tilting Skillet	John Marshall High School / Main Building	Kitchen	Cleveland	No dataplate	No dataplate		3431
33	7414942	E1030	**Foodservice Equipment**	Walk-In, Condenser for Refigerator/Freezer	John Marshall High School / Main Building	Kitchen	Harford	PC69MOP	410127361	2016	3401
34	7415011	E1030	**Foodservice Equipment**	Walk-In, Condenser for Refigerator/Freezer	John Marshall High School / Main Building	Kitchen	Harford	PC199LOP	410128172	2016	3407
35	7415026	E1030	**Foodservice Equipment**	Walk-In, Evaporator for Refigerator/Freezer	John Marshall High School / Main Building	Kitchen	Harford	PC199LOP	410127380	2016	3408
36	7415142	E1030	**Foodservice Equipment**	Walk-In, Evaporator for Refigerator/Freezer	John Marshall High School / Main Building	Kitchen	Harford	PC69MOP	410127361	2016	3409
37	7415128	E1030	**Foodservice Equipment**	Walk-In, Freezer	John Marshall High School / Main Building	Kitchen	Harford	No dataplate	No dataplate	2016	3406
38	7415060	E1030	**Foodservice Equipment**	Walk-In, Refrigerator	John Marshall High School / Main Building	Kitchen	Harford	No dataplate	No dataplate	2016	3405
39	7414929	E1040	**Ceramics Equipment**	Kiln	John Marshall High School / Main Building	Art Room	Skutt Automatic Kiln	KM-1027-3	22H09-383	2023	3446
40	7415003	E1040	**Healthcare Equipment**	Defibrillator (AED), Cabinet-Mounted	John Marshall High School / Main Building	Office					