

BUFORD MIDDLE SCHOOL 1000 CHERRY AVENUE CHARLOTTESVILLE, VIRGINIA

ECS PROJECT NO. 46:6713

FOR

CITY OF CHARLOTTESVILLE - FACILITIES DEVELOPMENT

OCTOBER 29, 2021





Geotechnical • Construction Materials • Environmental • Facilities

October 29, 2021

Mr. Josh Bontrager City of Charlottesville - Facilities Development 305 4th Street NW Charlottesville, Virginia, 22903

ECS Project No. 46:6713

Reference: Facility Condition Assessment Report for Buford Middle School, 1000 Cherry Avenue, Charlottesville, Virginia

Dear Mr. Bontrager:

ECS Mid-Atlantic, LLC is pleased to provide the results of our Facility Condition Assessment (FCA) for the referenced property. The scope of the FCA was performed in general accordance with ASTM and industry guidelines and items contained within the ECS Proposal No. 46:7239-FP, dated June 12, 2020. We understand that our work is being performed under the City of Charlottesville Purchase Order Number 4500313133.

It has been our pleasure to be of service to you on this project. Should you have any questions or comments with regard to the findings and recommendations, please feel free to contact us at your convenience.

Respectfully,

ECS Mid-Atlantic, LLC

Bor mge

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Project Summary

Construction System	Good	Fair	Poor	Action	Immediate	Over Term Years 1-20
<u>3.2.1</u> Topography	Х			None		
3.2.2 Storm Water Drainage	Х			None		
3.2.3 Access and Egress	Х			None		
3.2.4 Paving, Curbing, and Parking	Х	Х		Repair		\$20,000
<u>3.2.5</u> Flatwork		Х	Х	Replace		\$20,000
3.2.6 Landscaping and Appurtenances	Х			None		
3.2.7 Recreational Facilities	Х			None		
3.2.8 Special Utility Systems		NA		None		
3.3.1 Foundation	Х			None		
3.3.2 Building Frame	Х			None		
3.3.3 Building Exteriors		Х		Repair		\$95,000
3.3.4 Exterior Doors	Х			None		
3.3.5 Exterior Windows	Х	Х		Replace		\$75,000
3.3.6 Roofing Systems		Х		Replace		\$1,120,000
3.4.1.1 Supply and Waste Piping	Х			None		
3.4.1.2 Domestic Hot Water Production		Х		Replace		\$7,000
<u>3.4.2.1</u> Equipment	Х	Х		Replace		\$587,000
3.4.2.2 Distribution System	Х			None		
3.4.2.3 Control Systems	Х			None		
3.4.3.1 Service and Metering	Х	Х		None		
3.4.3.2 Distribution	Х	Х		Replace		\$10,000
3.5 VERTICAL TRANSPORTATION SYSTEMS	Х			None		
<u>3.6.1</u> Sprinklers and Suppression Systems	Х			None		
3.6.2 Alarm Systems	Х			None		
3.6.3 Security and Other Systems	Х			None		
3.7.1 Interior Finishes	Х			None		
3.8 Accessibility (ADA) Compliance	Х	Х		INSTALL ACCESSIBLE PARKING SIGNS	\$500	
5.1 MOISTURE AND MOLD	Х			None		
Totals					\$500	\$1,934,000

Summary	Today's Dollars	\$/Square Feet
Immediate Repairs	\$500	\$0.00

	Today's Dollars	\$/Square Feet	\$/Square Feet/Year
Replacement Reserves, today's dollars	\$1,934,000.00	\$17.48	\$0.87
Replacement Reserves, w/20, 2.5% escalation	\$2,110,786.64	\$19.08	\$0.95

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1.0 EXECUTIVE SUMMARY

1.1 BACKGROUND

ECS Mid-Atlantic, LLC (ECS) performed a Facility Condition Assessment (FCA) in general conformance with ASTM guidelines and general scope items contained within the ECS Proposal 46:7239-FP dated June 12, 2020 for the Buford Middle School property in Charlottesville, Virginia - hereinafter known as the Property.

The FCA was conducted by ECS in response to the authorization of our Proposal by Ms. Susan Dyer on November 23, 2020. The report was completed and reviewed by the following team members:

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1.2 METHODOLOGY

ECS observations and historical property data provided by the owner were utilized to determine the effective age of the property components. Various factors including exposure to weather elements, system manufacturer quality, level of maintenance, and usage determine the effective age of property components. Depending on the impact of these various factors, the effective age of property components can reduce the Remaining Useful Life (RUL) of a property component. The general requirements of the owner to address facility needs were requested to be prioritized based on the RUL and type of property component. The following Priorities were established by the Owner as follows:

Priority 1: Immediately Critical Items (Year 0)



Items in this Priority category include physical deficiencies that require immediate action as a result of (i) existing or potentially unsafe conditions, (ii) significant negative conditions impacting tenancy, (iii) material building code violations or Title II American with Disabilities Act (ADA) items.



Priority 2: Critical Items (Year 0-1)

Items in this Priority category include physical deficiencies that require immediate action as a result of (i) poor or deteriorated condition of critical element or system, or (ii) a condition that is left "as is," with an extensive delay in addressing same, would result in or contribute to critical element or system failure within one year.

Priority 3: Near Term Items (Years 2-5)

Items in this category include physical deficiencies that require near term action as a result of (i) poor or deteriorated condition of critical element or system, or (ii) a condition that is left "as is," with an extensive delay in addressing same, would result in or contribute to critical element or system failure within two to five years.

Priority 4: Reserve Items (Years 5-20)

Items in this Priority category include Capital Reserves for recurring probable expenditures, which are not classified as operational or maintenance expenses, which should be annually budgeted for in advance. Capital reserves are reasonably predictable both in terms of frequency and cost. However, they may also include components or systems that have an indeterminable life but nonetheless have a potential liability for failure within an estimated time period. A component method has also been included within this report as well.

Reserve items excludes systems or components that are estimated to expire after the reserve term and that are not considered material to the structural and mechanical integrity of the subject property. Furthermore, systems and components that were not deemed to have a material affect on the use were also excluded. Costs that are caused by acts of God, accidents or other occurrences that are typically covered by insurance, rather than reserved funds, are also excluded.

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

ECS's reserve methodology involves identification and quantification of those systems or components requiring capital reserve funds within the evaluation period. Additional information concerning systems or components respective replacement costs (in today's dollars), typical expected useful lives, and remaining useful lives were estimated so that a funding schedule could be prepared. The Capital Reserve Schedule presupposes that all required remedial work has been performed or that monies for remediation have been budgeted for items defined in the Immediate Needs Cost Estimates.



1.3 PROPERTY DESCRIPTION

Buford Middle School, located at 1000 Cherry Avenue, in Charlottesville, Virginia, consists of a Two-story building and three one story buildings. The buildings total approximately 110,650 square feet. Parking is provided with At-grade parking with asphalt pavement. The School buildings were reportedly constructed in 1966 with an addition completed in 1988.

SURVEY INFORMATION		
Date of Assessment	July 27, 2021	
Assessor	William R. Pratt, P.E.	
Weather Conditions	Clear 90F	
Property Contact	Josh Bontrager, Project Manager for the City of Charlottesville - Facilities Development	

SITE INFORMATION		
Land Area	18.87 acres	
Major Cross Streets	9th Street SW	
Pavement - Parking	At-grade parking with asphalt pavement	
Number of Parking Spaces	41	
Number of Accessible Spaces	Two	
Number of Van Accessible Spaces	Тwo	
Pedestrian Sidewalks	Concrete and asphalt sidewalks	

BUILDING INFORMATION		
Building Type	School	
Number of Buildings	Four	
Building Height	Two-story	
Square Footage	110,650	
Year Constructed	1966	
Year Remodeled	1988	



BUILDING CONSTRUCTION		
Foundation	Assumed shallow spread footings	
Structural System	Structural steel with concrete elevated slabs	
Roof	Single-ply sheet membrane	
Exterior Finishes	Brick veneer	
Windows	Aluminum frame double pane, aluminum frame double pane - operable	
Entrance	Storefront entrance	

BUILDING SYSTEMS		
HVAC System	Central plant HVAC system with supplemental heating/cooling equipment	
Domestic Hot Water	Gas domestic water heater	
Water Distribution	Copper	
Sanitary Waste Line	PVC and cast iron	
Electrical Service	3-phase, 4-wire, 2,500 amps	
Branch Wiring	Copper	
Elevators	Two passenger elevators	
Fire Suppression System	Wet sprinkler system and fire extinguishers with automated fire alarm system with alarm bell, strobe, and pull down stations	

UTILITY SERVICE PROVIDERS		
Water	Charlottesville Water	
Sewer	Charlottesville Public Utilities - Wastewater	
Electric	Dominion Virginia Power	
Natural Gas	City of Charlottesville	

1.4 OPINIONS OF COST

The opinions of cost are provided in the attached reserve replacement table and a summary of immediate repairs included in this report. The reserve replacement table covers capital expenditure items only. Items less than \$1,000 in cost have been excluded, except for immediate repairs, ADA or safety issues. Please refer to section 6.0 of this report for a detailed explanation on how these costs are derived.



1.5 COST TABLES



Immediate Repair Cost

Item	Quantity	Unit	Unit Cost	Replacement Percent	Immediate Total
3.8 Accessibility (ADA) Compliance					
INSTALL ACCESSIBLE PARKING SIGNAGE	2	EA	\$250.00	100%	\$500
Total Repair Cost					\$500.00

													Capita	al Reserv	e Sche	dule													
ltem	EUL	EFF		Quan	ity Unit	Unit Cost	Cycle Replace	Replace Percent		Year 2 2022	Year 3 2023	Year 4 2024	Year 5 2025	Year 6 2026	Year 7 2027	Year 8 2028	Year 9 2029	Year 10 2030	Year 11 2031	Year 12 2032	Year 13 2033	14	Year 15 2035	Year 16 2036	Year 17 2037	Year 18 2038	Year 19 2039	Year 20 2040	Total Cost
3.2.4 Paving, C				-																									
ASPHALT PAVEMENT REPAIRS	5	1	4	4	Allow	\$5,000.00	\$20,000	100%	\$5,000					\$5,000					\$5,000					\$5,000					\$20,000
3.2.5 Flatwork																													
REPLACE CONCRETE SIDEWALK SECTIONS	20	19	1	4	Allow	\$5,000.00	\$20,000	100%	\$5,000					\$5,000				\$5,000					\$5,000						\$20,000
3.3.3 Building	Exteri	ors																											
REPOINT BRICKWORK	20	19	1	1	LS	\$50,000.00	\$50,000	100%	\$25,000																			\$25,000	\$50,000
CLEAN AND PAINT EXPOSED STEEL ELEMENTS	10	1	9	2	Allow	\$10,000.00	\$20,000	100%									\$10,000									\$10,000			\$20,000
REPLACE SEALANTS	12	11	1	1	LS	\$25,000.00	\$25,000	100%	\$25,000																				\$25,000
3.3.5 Exterior \	Vindo	ws																											
REPLACE WINDOW UNITS	20	19	1	75	EA	\$1,000.00	\$75,000	100%	\$75,000																				\$75,000
3.3.6 Roofing S	ysten	ns																											
REPLACE SINGLE-PLY ROOFING SYSTEM	15	10	5	80,000	SF	\$14.00	\$1,120,000	100%					\$1,120,000																\$1,120,000
3.4.1.2 Domes	tic Ho	t Wat	er Pro	duction																									
REPLACE WATER HEATERS	15	14	1	2	Allow	\$3,500.00	\$7,000	100%	\$3,500															\$3,500					\$7,000
3.4.2.1 Equipm	ient																												
REPLACE BOILERS	20	19	1	2	EA	\$25,000.00	\$50,000	100%	\$25,000							\$25,000													\$50,000
REPLACE AIR HANDLERS	15	10	5	4	EA	\$10,000.00	\$40,000	100%					\$40,000																\$40,000
REPLACE WATER SOURCE HEAT PUMPS	20	19	1	70	EA	\$2,500.00	\$175,000	100%	\$35,000	\$35,000	\$35,000	\$35,000	\$35,000																\$175,000

ltem	EUL	EFF AGE	RUL	Quantity Uni	: Unit Cost	Cycle Replace	Replace Percent	Year 1 2021	Year 2 2022	Year 3 2023	Year 4 2024	Year 5 2025	Year 6 2026	Year 7 2027	Year 8 2028	Year 9 2029	Year 10 2030	Year 11 2031	12	Year 13 2033	14	Year 15 2035	Year 16 2036	Year 17 2037	18	Year 19 2039	Year 20 2040	Total Cost
REPLACE PACKAGE UNITS	20	19	1	14 EA	\$20,000.00	\$280,000	100%	\$280,000																				\$280,000
REPLACE COOLING TOWER	18	10	8	1 EA	\$30,000.00	\$30,000	100%										\$30,000											\$30,000
REPLACE SPLIT SYSTEM	15	5	10	1 EA	\$2,000.00	\$2,000	100%					\$2,000																\$2,000
REPLACE WALL MOUNTED AIR CONDITIONER UNITS	15	4	11	2 EA	\$5,000.00	\$10,000	100%											\$10,000										\$10,000
3.4.3.2 Distribu	ition																											
REPLACE OLDER CIRCUIT BREAKER PANELS	50	49	1	1 LS	\$10,000.00	\$10,000	100%	\$10,000																				\$10,000
Total (Uninflate	-d)							\$488 500 00	\$35,000,00	\$35,000,00	\$35,000,00	\$1,197,000.00	\$10,000,00	\$0.00	\$25,000,00	\$10,000,00	\$35,000,00	\$15,000,00	\$0.00	\$0.00	\$0.00	\$5 000 00	\$8 500 00	\$0.00 \$	10 000 00	\$0.00	\$25,000,00	\$1 934 000 0
Inflation Factor	,	%)							1.025	1.051	1.077	1.104	1.131	1.16		1.218		1.28		1.345			1.448	1.485 1.		1.56		+ 1,55 1,66616
Total (inflated)								\$488,500.00	\$35,875.00	\$36,771.88	\$37,691.17	\$1,321,264.03	\$11,314.08	\$0.00	\$29,717.14	\$12,184.03	\$43,710.20	\$19,201.27	\$0.00	\$0.00	\$0.00	\$7,064.87	\$12,310.53	\$0.00 \$				\$2,110,786.6
Evaluation Peri	iod:							20																				
# of Square Fe	et:							110,650																				
Reserve per Sq	uare	Feet p	oer ye	ar (Uninflated)				\$0.87																				
Reserve per Sq	uare	Feet p	oer ye	ar (Inflated)				\$0.95																				

2.0 PURPOSE AND SCOPE

2.1 SCOPE OF SERVICES

This Facility Condition Assessment (FCA) was conducted in general accordance with items and terminology requested by the Owner herein and ASTM E 2018-15, "Standard Guide for Property Condition Assessments: Baseline Property Condition Assessment Process".

The primary purpose of a FCA is to note construction deficiencies and to identify components which appear to exhibit less than expected service life or which have been poorly maintained. The assessment is not intended to develop detailed remedial plans for identified problems. The services are qualitative in nature and do not include engineering calculations or design. Photographic documentation of our observations is attached.

The following building systems were observed in accordance with ASTM E 2018-15:

- Site Conditions
- Structural Frame and Building Envelope
- Plumbing, Mechanical and Electrical Systems
- Vertical Transportation Systems
- Life Safety and Fire Protection
- Interior Elements
- ADA Considerations
- Building Code Violations

Out of Scope Items

Environmental issues and concerns are considered to be outside of the ASTM scope of services for a Facility Condition Assessment. Although properties may have possible environmental contamination, including, but not limited to radon, mold, lead based paint, asbestos, lead piping, PCB's or volatile chemicals, these issues and concerns should be addressed by an Environmental Assessment, as defined by ASTM Guidelines. ECS recommends that properties be studied by a qualified environmental assessor who can appropriately access, identify, and quantify issues related to environmental safety concerns.

ECS is providing a Facility Condition Assessment consistent with commercial and customary practices and the ASTM E-2018, current at the time the services are provided. The parties expressly acknowledge and agree that ECS is not providing a Reserve Study, which is subject to the National Reserve Study Standards and requires much more detail than a typical Facility Condition Assessment.

2.2 Deviations from Guide (ASTM E2018-15)

ASTM E2018-15 requires that any deviations from the Guide be noted within the report. ECS reduced the cost threshold from \$3,000 to \$1,000 to allow for smaller items needing repair, replacement or refurbishment. Therefore items with costs less than \$1,000 are typically not included in this report unless related to life, safety or accessibility items.



ECS interviewed personnel associated with the Buford Middle School facility and other government agencies based upon availability. These individuals are identified in Section 4.2. Information obtained from the interviews are included in the applicable sections of this report.

2.3 ASSESSMENT PROCEDURES

The FCA included site reconnaissance, limited interviews with property management, and inquiries or attempted inquiries with the local building and fire departments. Operational testing of building systems or components was not conducted. During the FCA, ECS conducted observations of the following facility features: site development systems; building structure systems; building exterior systems; building interior systems; roof systems; mechanical systems; electrical systems; plumbing systems; and life and fire safety systems.

This report is intended for review as a complete document. Therefore, interpretations and conclusions drawn from the review of any individual section are the sole responsibility of the User.

2.4 DEFINITIONS

Fair, adj - the property or component is functional but will likely require immediate maintenance or repairs during the duration of the term.

Good, adj - the property or component is functional and should continue to provide its intended service with continued routine maintenance through the duration of the term.

Poor, adj - the property or component is not functional. Immediate or near term repairs are required to bring the component back into service or replacement is expected during the duration of the term.

2.4.1 Partial List of ASTM Definitions

de minimis condition - a physical deficiency that is not material to the conclusions of the report.

deferred maintenance, n - physical deficiencies that could have been remedied with routine maintenance, normal operating maintenance, etc., excluding de minimis conditions that generally do not present a material physical deficiency to the subject property.

easily visible, adj - describes items, components, and systems that are conspicuous, patent, and which may be observed visually during the walk-though survey without: intrusion, relocation or removal of materials, exploratory probing, use of special protective clothing, or use of any equipment (hand tools, meters of any kind, telescope instruments, stools, ladders, lighting devices, etc.).

effective age, n - the estimated age of a building component that considers actual age as affected by maintenance history, location, weather conditions, and other factors. Effective age may be more or less than actual age.

expected useful life (EUL), n - the average amount of time in years that an item, component or system is estimated to function without material repair when installed new and assuming routine maintenance is practiced.



immediate cost, n - opinions of costs that require immediate action as a result of any of the following: (1) material existing or potentially unsafe conditions, (2) material building or fire code violations, (3) physical deficiencies that if left uncorrected would be expected to result in or contribute to critical element or system failure within on year or will result most probably in significant escalation of its remedial cost.

observation, n - the visual survey of items, systems, conditions, or components that are readily accessible and easily visible during a walk-through survey of the subject property.

observe, v - to conduct an observation pursuant to this guide within the context of easily visible and readily accessible.

obvious, adj - plain, evident, and readily accessible; a condition easily visible or fact not likely to be ignored or overlooked by a field observer when conducting a walk-through survey or that which is practically reviewable and would be understood easily by a person conducting the FCA.

opinions of costs, n - opinion of costs that may be encountered in correction of physical deficiencies.

physical deficiency, n - a conspicuous defect or deferred maintenance of a subject property's material systems, components, or equipment as observed during the completion of the FCA. - This definition specifically excludes deficiencies that may be remedied with routine maintenance, miscellaneous minor repairs, normal operating maintenance, etc., and excludes de minimis conditions that generally do not present material physical deficiencies of the subject property.

Point of Contact (POC), n - owner, owner's agent, or user-identified person or persons knowledgeable about the physical characteristics, maintenance, and repair of the subject property.

practically reviewable, adj - describes information that is provided by the source in a manner and form that, upon review, yields information relevant to the subject property without the need for significant analysis, measurements, or calculations. Records or information that feasibly cannot be retrieved by reference to the location of the subject property are not generally considered practically reviewable.

primary commercial real estate improvements, n - the site and building improvements that are of fundamental importance with respect to the commercial real estate. This definition specifically excludes ancillary structures, that may have been constructed to provide support uses such as maintenance sheds, security booths, utility garages, pool filter and equipment buildings, etc.

property, n - the site improvements, which are inclusive of both site work and buildings.

readily accessible, adj - describes areas of the subject property that are promptly made available for observation by the field observer at the time of the walk-through survey and do not require the removal or relocation of materials or personal property, such as furniture, floor, wall, or ceiling coverings; and that are safely accessible in the opinion of the field observer.

readily available, adj - describes information or records that are easily and promptly provided to the consultant upon making a request in compliance with an appropriate inquiry and without the need for the consultant to research archive files.



reasonably ascertainable, adj - describes information that is publicly available, as well as readily available, provided to the consultant's offices from either its source or an information research/ retrieval service within reasonable time, practically reviewable, and available at a nominal cost for either retrieval, reproduction or forwarding.

remaining useful life (RUL), n - a subjective estimate based upon observations, or average estimates of similar items, components, or systems, or a combination thereof, of the number of remaining years that an item, component, or system is estimated to be able to function in accordance with its intended purpose before warranting replacement. Such period of time is affected by the initial quality of an item, component, or system, the quality of the initial installation, the quality and amount of preventive maintenance exercised, climatic conditions, extent of use, etc.

representative observations, n - observations of a reasonable number of samples of repetitive systems, components, areas, etc., which are conducted by the field observer during the walk-through survey. The concept of representative observations extends to all conditions, areas, equipment, components, systems, buildings, etc., to the extent that they are similar and representative of one another.

routine maintenance, n - a repair that does not require specialized equipment, profession services, or contractors, but rather can be corrected within budget and skill set of typical property maintenance staff.

short term cost, n - opinions of costs to remedy physical deficiencies, such as deferred maintenance, that may not warrant immediate attention, but require repairs or replacements that should be undertaken on a priority basis in addition to routine preventive maintenance.

technically exhaustive, adj - describes the use of measurements, instruments, testing, calculations, exploratory probing or discovery, or other means to discover, or a combination thereof, or troubleshoot physical deficiencies or develop architectural or engineering findings, conclusions, and recommendations, or combination thereof.



3.0 SYSTEM DESCRIPTION AND OBSERVATIONS

3.1 PROPERTY DESCRIPTION

The Property contains a Two-story School building and three one-story school buildings.

3.1.1 Property Location

The Property is located at 1000 Cherry Avenue in Charlottesville, Virginia.

	Surrounding Properties								
North	10th Street SW								
East	9th Street SW								
South	Residential properties								
West	Residential properties								

A Site Location Map and Aerial View are included in Appendix I.

3.1.2 Construction History

We understand that the building was constructed approximately 55 years ago in 1966.

3.1.3 Current Property Improvements

The School buildings, located at 1000 Cherry Avenue, in Charlottesville, Virginia, consist of a Two-story building and three one-story buildings. The buildings total approximately 110,650 square feet. Parking is provided with At-grade parking with asphalt pavement.

3.2 SITE CONDITIONS

3.2.1 Topography

TOPOGRAPHY									
Item Description Cor									
Slope of the property	The property generally slopes to the west	Good							
Adjoining Properties	Generally down slope	Good							

Comments

The property is generally level and slopes to the west. The adjoining properties are located down gradient from the property.



3.2.2 Storm Water Drainage

STORM WATER DRAINAGE										
ltem	Description	Condition								
Storm Water Collection System	Municipal	Good								
Storm Water (Retention) Pond		N/A								
Storm Water Filtration Structure		N/A								
Pavement Drainage	Curb inlet	Good								
Landscape Drainage	Sheet flow	Good								
Sump Pumps		N/A								

Comments

The storm water collection system is a municipal system.

3.2.3 Access and Egress

SITE ACCESS AND EGRESS										
ltem	Description	Condition								
Entrance Aprons	Asphalt	Good								
Fire Truck Access	North and side of the property	Good								
Easements		N/A								

Comments

Vehicular access to the site is located on the north and east side of the property. The entrance apron is constructed of asphalt and was observed to be in generally good condition. Fire truck access is available on the north side of the building.



3.2.4 Paving, Curbing, and Parking

	PARKING	
ltem	Description	Condition
Striping	Fading. Accessible space markings are barely visible	Fair
Quantity of Parking Spaces	41	Good
Quantity of Loading Spaces		N/A
Arrangement of Spaces	Perpendicular approach spaces	Good
Site Circulation	Wide drive aisles	Good
Lighting		N/A
Accessible Spaces	Тwo	Poor
Accessible Aisles	No connection to building provided	Poor

	SURFACE PAVEMENT										
ltem	Description	Condition									
Pavement Surface	At-grade parking with asphalt pavement	Fair									
Drainage	Curb inlet	Good									
Repair History	Repairs noted	Fair									
Concrete Curbs and Gutters	Cracking noted	Fair									
Dumpster Pad	Asphalt	Fair									
Asphalt Curbs		N/A									
Fire Lane Painting		Good									

Comments

Asphalt-paved drive lanes and parking areas are located on the north and south side of the site which also provides access to the site. Additional parking is provided along the southern drive lane. The asphalt pavement was observed to be in generally good to fair condition with minor cracks observed on the pavement. Striping was in fair condition. The expected useful life of asphalt pavement is 20 years. We have provided allowances to repair the cracked areas of asphalt pavement.



Photographs





Asphalt pavements north side of the site

Asphalt pavements southeast entrance drive lane



Asphalt pavements east side of the site drive lane - note cracking



Asphalt pavements - note alligator cracks





Asphalt pavement area at southwest area of the site

Recommendations

Cost Recommendation	EUL	EFF AGE	RUL	Year	Cost
ASPHALT PAVEMENT REPAIRS	5	1	4	1	\$5,000
				6	\$5,000
				11	\$5,000
				16	\$5,000
Total					\$20,000

3.2.5 Flatwork

SIDEWALKS										
ltem	Description	Condition								
Walkways	Concrete and asphalt sidewalks	Fair/Poor								
Patios	Concrete	Fair								
Steps	Concrete with applied treads	Fair								
Landings	Concrete	Fair								
Handrails	Tube steel	Good								
Ramps	Concrete	Fair								
Curb Ramps	Concrete	Fair								
Truncated Domes	Missing from ramp near main entrance	Fair								



Comments

At the perimeter of the building, concrete sidewalks sidewalks of undetermined thickness are provided. Regularly spaced control joints were observed. The concrete sidewalks were generally in fair condition, with some cracked sections observed. We recommend the cracked and settled sections be replaced as necessary.

An asphalt sidewalk is located on the southwest side of the site with cracking observed. The asphalt sidewalk was in poor condition. We recommend replacing the cracked asphalt section.

The steps and ramps were observed to be in generally fair condition. Previously repaired concrete sidewalks appeared to be in good condition. The handrails adjacent to the steps and ramps were observed to be in generally fair condition.

Photographs





Concrete sidewalk west side of Building B - note cracking

Typical concrete sidewalk - note cracking





Typical concrete sidewalk - note deterrioration



Typical concrete sidewalk - note cracking

Recommendations

Cost Recommendation	EUL	EFF AGE	RUL	Year	Cost
REPLACE CONCRETE SIDEWALK SECTIONS	20	19	1	1	\$5,000
				6	\$5,000
				10	\$5,000
				15	\$5,000

Total

\$20,000

3.2.6 Landscaping and Appurtenances

LANDSCAPING				
ltem	Description	Condition		
Trees	Located throughout the site	Good		
Planting Beds	Located at north side of the site	Good		
Lawn Areas	Located on north side of the site	Good		
Irrigation System		N/A		
Monumental Sign		N/A		
Landscape Lighting		N/A		
Retaining Walls		N/A		
Fences and Gates		N/A		
Dumpster Area	Located at southwest end of the site	Good		



LANDSCAPING					
Item Description Condition					
Fountains		N/A			

Comments

The landscaping consists generally of mature trees, small shrubs, and grassed areas around the site. The landscaping was observed to be in generally good condition.

Photographs



Landscaping at north end of the site

3.2.7 Recreational Facilities

SOCCER FIELD				
ltem	Description	Condition		
Playing Surface	Grass multi-use field with goal post and seating	Good		
Fencing		N/A		
Equipment		N/A		
Lighting		N/A		

Comments

Soccer Field



The soccer field is located at the west side of the property. The soccer field was in good condition.

3.2.8 Special Utility Systems

ltem	Description	Condition
Water Well		N/A
Lift Station		N/A
Septic Field		N/A
Solar Power		N/A
Wind Power		N/A

Comments

The Property does not contain special utility systems.

3.3 STRUCTURAL FRAME AND BUILDING EXTERIOR

3.3.1 Foundation

FOUNDATION				
Item	Description	Condition		
Load Bearing Support	Assumed shallow spread footings	Good		
Basement		N/A		
Crawl Space		N/A		

Comments

The foundation of the building includes Assumed shallow spread footings. Large cracks were not observed in the exterior walls. The foundation system appeared to provide adequate structural support to the building. The foundation was generally in good condition.

3.3.2 Building Frame

BUILDING FRAME					
Item Description Condit					
Floor Framing	Concrete	Good			
Roof Framing	Steel	Good			
Columns	Steel	Good			
Load Bearing Walls	СМИ	Good			



BUILDING FRAME					
Item Description Condit					
Balconies		N/A			
Decks		N/A			

Comments

The structure of the building consists of Structural steel with concrete elevated slabs . The structural frame of the building was generally in good condition.

3.3.3 Building Exteriors

EXTERIOR FINISHES				
ltem	Description	Condition		
Masonry	Brick	Fair		
Glass Store Front		N/A		
Glass Curtain Wall		N/A		
Metal		N/A		
Concrete		N/A		
Wood Siding		N/A		
Accent/Trim	Metal	Good		
Covered Soffits	Steel	Good		
Awnings	Steel	Good		
Paint	Steel elements	Good		
Sealants	Various	Fair		

Comments

The primary exterior of the building consists of Brick veneer. Painted exposed steel beams and columns were located on the west side of building. The building exteriors were generally in fair condition with limited deterioration observed. The expected useful life of mortared joints is approximately 20 years before re-pointing is required. Limited deterioration of mortar joints was observed. We recommend re-pointing of the deteriorated mortar joints. The paint was in good condition.

Exterior sealants are located around the window and door frames. The expected useful life of exterior sealants is approximately 10 to 12 years before replacement is needed. The exterior sealants were generally in fair condition. We recommend that the exterior sealants be replaced.



Various awning structures are located at the over entrance doors throughout the building. The paint was observed to be peeling at the underside of the awning at various entrances. The awnings should be painted in conjunction with the exposed beams and columns painting project.

Photographs



Building exterior north side of the building

Building exterior - note deterioration



Building exterior west side of the building



Building exterior - note need cleaning

Recommendations

Cost Recommendation	EUL	EFF AGE	RUL	Year	Cost
REPOINT BRICKWORK	20	19	1	1 20	\$25,000 \$25,000



Cost Recommendation	EUL	EFF AGE	RUL	Year	Cost
CLEAN AND PAINT EXPOSED STEEL ELEMENTS	10	1	9	9 18	\$10,000 \$10,000
REPLACE SEALANTS	12	11	1	1	\$25,000
Total					\$95,000

3.3.4 Exterior Doors

DOORS				
ltem	Condition			
Main Entrance Doors	Storefront entrance	Good		
Personnel Doors	Hollow metal	Good		
Door Hardware	Varies	Good		
Accessibility Controls		N/A		
Overhead/Roll-up Doors		N/A		

Comments

The main entrance is located at the north portion of the main building and consists of a Storefront entrance. The main entrance doors were generally in good condition.

Personnel doors are located throughout the building. The personnel doors were generally in good condition. It also appeared that many of the doors had been replaced over time. Exterior doors typically have an expected useful life of 20 to 30 years.



Photographs



Main entrance doors

Typical personnel doors

3.3.5 Exterior Windows

WINDOWS				
ltem	Description	Condition		
Window Frame	Metal framed	Fair		
Glass Pane	Single-pane and double-pane (typically replacement from damage)	Fair		
Operation	Lower sash	Fair		
Screen		N/A		
Exterior Header	Varies with exterior condition	Good		
Exterior Sill	Varies with exterior condition	Good		
Gaskets or Glazing	Varies with window type	Fair		

Comments

The window system for the building primarily consists of metal frame single pane and/or double pane window units. It was reported that the windows were replaced when damaged as needed. Metal frame single-pane windows have a typical expected useful life of 25 years. There administrative offices on the north side of the main building were reportedly subject to wide temperature fluctuations due to the windows. Replacement of windows has been included in the study period.



Photographs



Older exterior windows - note reportedly wide temperature fluctuation in offices

Typical exterior window - note fog inside the glass



Typical operable exterior windows



Typical exterior window - note gasket deterioration

Recommendations

Cost Recommendation	EUL	EFF AGE	RUL	Year	Cost
REPLACE WINDOW UNITS	20	19	1	1	\$75,000
Total					\$75,000



3.3.6 Roofing Systems

ROOFING				
ltem	Description	Condition		
Single-Ply Sheet Membrane	Patching and ponding observed, leaks reported	Fair		
Slate Shingle		N/A		
Parapet Walls	Shallow with metal coping	Fair		
Cap Flashing/Coping	Metal coping	Fair		
Insulation	Rigid	Good		
Substrate/Deck	Metal decking	Good		
Slope/Pitch	Some ponding noted	Fair		
Drainage	Internal drains, scuppers, gutters, and downspouts	Good		
Plumbing Vents	Clamped boots	Good		
Exhaust Vents	Counter flashed curb	Good		
Equipment Curbs	Counter flashed	Good		
Pitch Pockets		N/A		
Skylights	Corrosion noted	Fair		
Flashing	Metal	Good		
Expansion Joints		Good		
Roof Age	Reportedly replaced in 2006	Fair		
Warranty		N/A		

Comments

The main roofing system consists of a single-ply roofing system. The roofing system was reportedly replaced in 2006. Some patching and ponding were observed and leaks were reported. The expected useful life of a single-ply membrane roofing system is typically 15 years. We recommend replacing the roofing system during the report period. There are metal components to the roofing system. We recommend the metal components be repaired and painted as needed during roof replacement.

Drainage for the roofing system is provided by internal drains with overflow scuppers. Gutters and downspouts provided drainage from higher roofs to lower roofs at some locations. Roofing penetrations included plumbing vents and exhaust vents throughout the roofing system.

There are skylights located throughout the buildings. The skylights framing was rusted and were generally in fair condition.



Photographs





Single-ply roofing system looking west

Single-ply roofing system - note patching



Typical interior ceiling - note water leakage



Single-ply roofing system - note ponding





Single-ply roofing system - note ponding

Recommendations

Cost Recommendation	EUL	EFF AGE	RUL	Year	Cost
REPLACE SINGLE-PLY ROOFING SYSTEM	15	10	5	5	\$1,120,000
Total					\$1,120,000

3.4 PLUMBING, MECHANICAL, AND ELECTRICAL SYSTEMS

3.4.1 Plumbing Systems

3.4.1.1 Supply and Waste Piping

PLUMBING - WATER SUPPLY SYSTEM			
ltem	Description	Condition	
Piping Material	Copper	Good	
Pipe Insulation	Fiberglass	Fair	
Water Shut-offs	Ball valves	Good	
Water Flow and Pressure		Good	

PLUMBING - WASTE SUPPLY SYSTEM			
ltem	Description	Condition	
Piping Material	PVC and cast iron	Good	



PLUMBING - WASTE SUPPLY SYSTEM				
Item Description Condition				
Vertical Vent Stacks	PVC and cast iron	Good		
Clean-outs	PVC and cast iron	Good		

Comments

Water Lines

The main water supply lines inside the building are Copper. The expected useful life of Copper piping is approximately 40 years. The water supply pipes were generally in good condition.

Waste Lines

The waste lines in the building are PVC and cast iron. The expected useful life of PVC and cast iron waste line is approximately 50 years. The waste lines were generally in good condition and it was observed that some pipes had been replaced over time.

3.4.1.2 Domestic Hot Water Production

HOT WATER PRODUCTION			
ltem	Description	Condition	
Heating Equipment	Gas and electric water heaters	Fair	
Water Storage	In water heater	Fair	
Circulation Pumps		N/A	

Comments

Domestic hot water to the building is provided by a main Gas domestic water heater manufactured by Lochinvar located in the main utility room and an electric domestic water heater manufactured by RUUD located in a janitor's closet. The water heaters were generally in fair condition.

The expected useful life of water heaters is approximately 15 years with proper maintenance. We recommend the water heaters be replaced during the study period.



Photographs



Electric water heater located in janitor's closet

Recommendations

Cost Recommendation	EUL	EFF AGE	RUL	Year	Cost
REPLACE WATER HEATERS	15	14	1	1 16	\$3,500 \$3,500
Total					\$7,000

3.4.2 HVAC Systems

3.4.2.1 Equipment

EQUIPMENT				
ltem	Description	Condition		
Boilers	Located in main utility room	Fair		
Chillers	Located in main utility room	Fair		
Cooling Towers	Located at east side of the site	Good		
Fan Coil Units		N/A		
Heat Exchangers		N/A		
Radiators		N/A		
Variable Air Volume (VAV) Boxes		N/A		



EQUIPMENT				
ltem	Description	Condition		
Condensing Units		N/A		
Air Handlers	Trane	Fair		
Package Units	Located on roof tops	Fair		
Wall Mounted Air Conditioner	Located on east building exterior	Fair		
Exhaust Fans	Various	Good		
Split System	Serving IT area	Fair		
Water Source Heat Pumps (WSHP)	Located throughout the buildings	Good		
Space Heaters (wall or ceiling mounted)		N/A		
Air Conditioners (Window)		N/A		

Comments

The building is served by a Central plant HVAC system with supplemental heating/cooling equipment and includes a cooling tower, boilers, package units, air handlers, and water source heat pumps.

<u>Boilers</u>

The Patterson Kelly boilers have an expected useful life of 20 years with proper maintenance. The two boilers were located in the main utility room at the south side of the main building. The boilers were reportedly installed in 2000 and 2014 and were generally in fair condition. We recommend scheduled replacement by age of the boilers during the report period.

Cooling Tower

The cooling tower is located at the east side of the east building at the exterior enclosure . The Evapco cooling tower was installed in 2011 and was in good condition. Cooling towers have a typical expected useful life of approximately 18 years. The cooling tower should be replaced during the study period.

<u>Chiller</u>

The chiller is located in the main utility room at the south side of the main building. The chiller was in good condition.

Air Handlers

The air handlers are located throughout the buildings. The units were manufactured by Trane and were in fair condition. The expected useful life of air handlers is 15 years with proper maintenance. We recommend that the air handlers be replaced during the report period.



Rooftop Package Units

Two package units are located on the roof. The Decktron roof top units were installed in approximately 2002. The two AAON roof top units were manufactured in 2014. The expected useful life of package units is 15 years with proper maintenance. We recommend that the units be replaced during the report period.

Wall Mounted Air Conditioner Unit

A wall mounted air conditioner unit is located at the east building exterior wall. The expected useful life of wall mounted air conditioner units is 15 years with proper maintenance. We recommend that the wall mounted air conditioner unit be replaced during the report period.

Water Source Heat Pumps (WSHP)

There are 85 WSHP units located throughout the building. The typical expected useful life of the water source heat pumps is 20 years and they were replaced in 2014 and 2015. We recommend a scheduled replacement of the units near the end of the term.

Split System

A Sanyo split system was located in the IT room. The system installation date was unknown and was in fair condition. Split systems have an expected useful life of 15 years and should be replaced during the study period.

-

Photographs



Boiler located in main utility room

Cooling Tower located at east end of the site







Typical Make Up Air Unit located on roof

Typical Water Source Heat Pump



Split System for IT room

Wall mounted air conditioner unit





chiller located in main utility room

Recommendations

Cost Recommendation	EUL	EFF AGE	RUL	Year	Cost
REPLACE BOILERS	20	19	1	1 8	\$25,000 \$25,000
REPLACE AIR HANDLERS	15	10	5	5	\$40,000
REPLACE WATER SOURCE HEAT PUMPS	20	19	1	1 2 3 4 5	\$35,000 \$35,000 \$35,000 \$35,000 \$35,000
REPLACE PACKAGE UNITS	20	19	1	1	\$280,000
REPLACE COOLING TOWER	18	10	8	10	\$30,000
REPLACE SPLIT SYSTEM	15	5	10	5	\$2,000
REPLACE WALL MOUNTED AIR CONDITIONER UNITS	15	4	11	11	\$10,000
Total					\$587,000



3.4.2.2 Distribution System

HVAC DISTRIBUTION				
Item Description Condition				
Ducts	Sheet metal	Good		
Return Air	Sheet metal	Good		

Comments

The distribution system includes ducted supply and a plenum return. Exposed ductwork was observed in limited locations within the building and was in generally good condition.

3.4.2.3 Control Systems

	HVAC CONTROL SYSTEMS	
Item	Description	Condition
Thermostats	Located throughout interior spaces	Good
Variable Frequency Drives	Located in main utility room	Good
Energy Management System	BAS	Good

Comments

The thermostats are located throughout the interior spaces. The thermostats were observed to be in generally good condition. The BAS system was in good condition.

3.4.3 Electrical Systems

3.4.3.1 Service and Metering

SERVICE AND METERING				
Item	Description	Condition		
Service Entrance	On east side of the main building	Good		
Master (House) Meter	On east side of the main building	Good		
Emergency Power		N/A		
Transfer Switch		N/A		



Comments

Electricity is provided to the building by Dominion Virginia Power. The main electrical entrance is located on the east side of the site and provides 2,500 amp, 3-phase, 4-wire service.

The main electrical switchgear was manufactured by General Electric. The switchgear was in good condition.

Photographs



Electric utility transformer

Electric utility meter



Main electrical switchgear



3.4.3.2 Distribution

ELECTRICAL DISTRIBUTION SYSTEM					
Item Description Condition					
Electrical Sub-panels	Newer and older units	Fair			
Branch Wiring	Copper	Good			
GFCI Devices		Good			
Building Transformers	Pad mounted	Good			
Sub-Meters		N/A			

Comments

Power is distributed by copper wire from circuit breaker panels located throughout the building. The expected useful life of sub-panels is 50 years with proper maintenance. Some of the the circuit breaker panels were reportedly recently replaced. The circuit breaker panels were observed to be in generally good to fair condition. We recommend replacing the remainder of the older circuit breaker panels.

Photographs



Typical newer electrical circuit breaker panel

Typical older electrical circuit breaker panel

Recommendations

Cost Recommendation	EUL	EFF AGE	RUL	Year	Cost
REPLACE OLDER CIRCUIT BREAKER PANELS	50	49	1	1	\$10,000



Cost Recommendation	EUL	EFF AGE	RUL

Year Cost

Total

\$10,000

3.5 VERTICAL TRANSPORTATION SYSTEMS

ELEVATORS		
ltem	Description	Condition
Quantity	Two passenger elevators	Good
Capacity	2,100 pounds	Good
Manufacturer and Type	Dover - hydraulic	Good
Maintenance Contractor	Southern Elevator	Good
Date of Last Maintenance Inspection	2/22/2021	Good
Cab Finishes	Stainless/enamel	Good
Elevator Certificates	Located in Facilities Maint. Ofc.	Good
Door Sensors	Operable	Good
Speed	100 feet per minute	Good
Floor Leveling	Operable	Good
Control System	Operable	Good
Fire Recall System	Operable	Good
Lighting	Operable	Good
Equipment Room		Good

Comments

The elevator is located in the main building. The expected useful life of the elevator controls is 30 to 40 years with proper maintenance. Routine maintenance is considered adequate to keep the elevator system in good condition during the projection period of this report. The last annual inspection was performed within the last year and monthly maintenance is provided by Southern Elevators. The inspection reports are included in an appendix of this report.



Photographs



Elevator cab

Elevator machine and controls



Elevator cab interior

3.6 LIFE SAFETY AND FIRE PROTECTION

3.6.1 Sprinklers and Suppression Systems

SPRINKLER AND SUPPRESSION SYSTEMS		
ltem	Description	Condition
Sprinkler System (wet)	Automatic sprinkler system	Good
Sprinkler Heads	Throughout	Good
Date of Last Inspection (sprinkler system)	4/6/2021	Good



SPRINKLER AND SUPPRESSION SYSTEMS		
Item	Description	Condition
Sprinkler Pump		N/A
Fire Extinguishers	Throughout	Good
Date of Last Inspection (Fire Extinguishers)	April 2021	Good
Fire Standpipes	Victalic	Good
Fire Department Connections	Located on north side of main building	Good
Hose Cabinets		N/A
Fire Hydrants	On site	Good

Comments

The fire suppression system is a Wet sprinkler system and fire extinguishers. The fire suppression system was observed but not tested. The sprinklers are connected to the fire alarm. The sprinkler risers are located in the sprinkler room.

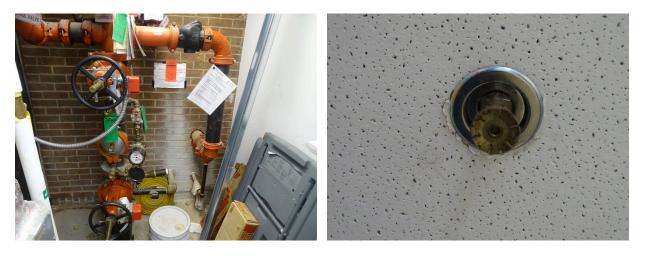
Sprinkler heads are located throughout the building. The sprinkler heads were generally in good condition.

Fire extinguishers were observed throughout the building including in mechanical rooms. The fire extinguishers were observed to have recent inspection tags issued April 2021. These devices are required to be inspected annually. Replacement of the fire extinguishers is considered routine maintenance.

Fire hydrants are located at the building exterior. The fire hydrants were observed to be in good condition.



Photographs



Fire sprinkler system

Typical fire sprinkler head

3.6.2 Alarm Systems

ALARM SYSTEMS		
ltem	Description	Condition
Public Address System	Located in the Main Office	Good
Central Fire Alarm Control Panel	Located in the Main Office	Good
Automatic Notification	Monitored	Good
Bells	Located throughout the building	Good
Strobes	Located throughout the building	Good
Exit Signs	Located throughout the building	Good
Exit Lights	Located throughout the building	Good
Pull Stations	Located throughout the building	Good
Smoke Detectors	Located throughout the building	Good
Carbon Monoxide Detectors		N/A



Comments

The fire alarm system was observed but not tested. A fire control pane is located in the Main Office. The fire control panel was observed to be in good condition. Emergency exit signs and lighting, pull stations, fire extinguishers, smoke detectors, and alarm bells and strobes are located throughout the building.

Photographs



Fire alarm control panel

Typical fire alarm bell, strobe

3.6.3 Security and Other Systems

SECURITY AND OTHER SYSTEMS		
ltem	Description	Condition
Security Cameras	Interior and exterior	Good
Alarm System	Monitored	Good
Access Control		N/A
Security Fencing		N/A
Lightning Protection		N/A
Roof Anchors		N/A

Comments

The building is monitored by a motion detector security system with cameras and alarms. The security system was reported to be in good condition.



Photographs



Typical security camera

3.7 INTERIOR BUILDING COMPONENTS

3.7.1 Interior Finishes

MAIN OFFICE		
Item	Description	Condition
Floor Finishes	Carpet, wood	Good
Wall Finishes	Painted gypsum board	Good
Ceiling Finishes	Suspended acoustical tile, painted gypsum board	Good
Lighting	Fluorescent fixtures	Good
Accessories	Millwork	Good

RESTROOMS		
ltem	Description	Condition
Floor Finishes	Ceramic tile	Good
Wall Finishes	Painted CMU	Good
Ceiling Finishes	Suspended acoustical tile	Good
Fixtures	Toilets, urinals, wall hung lavatories	Good
Accessories	Partitions, grab bars, mirrors, soap and paper dispensers	Good
Ventilation	Exhaust fans	Good



RESTROOMS		
ltem	Description	Condition
Lighting	Fluorescent fixtures	Good
Doors	Metal	Good
Door Hardware	Operable	Good

CORRIDORS		
ltem	Description	Condition
Floor Finishes	Vinyl tile	Good
Wall Finishes	Painted CMU	Good
Ceiling Finishes	Suspended acoustical tile	Good
Lighting	Fluorescent fixtures	Good
Doors	Metal	Good
Door Hardware	Operable	Good

STAIRS		
ltem	Description	Condition
Location	East and west ends of the main building	Good
Enclosure	Brick	Good
Framing Support	Steel	Good
Treads	Vinyl	Good
Risers	Steel	Good
Nosing	Vinyl	Good
Handrails	Steel tube	Good
Lighting	Fluorescent	Good
Pressurized Stairwells		N/A
Doors	Metal	Good
Door Hardware	Operable	Good



KITCHEN		
ltem	Description	Condition
Floor Finishes	Ceramic tile	Good
Wall Finishes	Glazed block	Good
Ceiling Finishes	Painted gypsum board	Good
Counters	Stainless	Good
Sink	Stainless	Good
Cabinets	Stainless	Good
Appliances	Stainless	Good
Stove/Range	Commercial	Good
Exhaust Vent/Hood	Commercial	Good
Refrigerator	Commercial	Good
Dishwasher	Commercial	Good
Microwave Oven	Commercial	Good

UTILITY ROOMS/ MECHANICAL ROOMS		
ltem	Description	Condition
Floor Finishes	Unfinished concrete and/or vinyl tile	Good
Wall Finishes	Painted gypsum board/ CMU	Good
Ceiling Finishes	Unfinished	Good
Janitor Sink Area	Floor basin	Good
Lighting	Fluorescent fixtures	Good

AUDITORIUM				
ltem	Description	Condition		
Floor Finishes	Unfinished concrete, carpet	Good		
Wall Finishes	Wood paneling	Good		
Ceiling Finishes	Painted gypsum board	Good		
Lighting	Various	Good		
Accessories		N/A		
Seating	Theater	Good		



AUDITORIUM				
Item Description Conditio				
Stage	Wood	Good		

CAFETERIA				
ltem	Description	Condition		
Floor Finishes	Vinyl tile	Good		
Wall Finishes	Painted CMU, gypsum board	Good		
Ceiling Finishes	Suspended acoustical tile, painted gypsum board	Good		
Lighting	Fluorescent fixtures	Good		
Accessories	Folding tables	Good		

CLASSROOMS				
ltem	Condition			
Floor Finishes	Vinyl tile	Good		
Wall Finishes Painted gypsum board/ painted CMU		Good		
Ceiling Finishes	Suspended acoustical tile	Good		
Lighting	Fluorescent fixtures	Good		
Doors	Metal	Good		
Door Hardware	Operable	Good		

GYM				
Item Description Co				
Floor Finishes	Wood	Good		
Wall Finishes	Painted gypsum board/ painted CMU	Good		
Ceiling Finishes	Unfinished	Good		
Lighting	Fluorescent fixtures	Good		
Doors	Metal	Good		
Door Hardware	Operable	Good		



Comments

The interior building areas include a main office, restrooms, corridors, classrooms, a kitchen, an auditorium, a cafeteria, a gym, and mechanical/utility spaces. We understand that the interiors are largely original to construction.

The finishes in the main office include carpet and wood floors, painted gypsum board walls, and both painted gypsum board and suspended acoustical tile ceilings. The finishes in the main office were observed to be in generally good condition.

Restrooms are located throughout the building as accessed from corridors. The finishes in the restrooms include ceramic tile floors, painted concrete masonry unit walls, and suspended acoustical tile ceilings. The restrooms were observed to be in generally good condition.

The finishes in the corridors include vinyl tile floors, painted CMU block walls, and suspended acoustical tile ceilings. The finishes in the corridors were observed to be in generally good condition.

The finishes in the kitchens include ceramic tile floors, glazed block walls, and painted gypsum board ceilings. The finishes in the kitchens were observed to be in generally good condition.

The utility and mechanical rooms were generally unfinished and/or with vinyl tile floors and CMU walls. Some utility rooms had painted gypsum board walls.

The finishes in the auditorium consist of concrete and carpet flooring in the seating area and the stage consisted of wood. The walls consisted of wood and the ceiling is painted gypsum board. The finishes were generally in good condition.

The finishes in the cafeteria area consisted of vinyl tile flooring, painted gypsum board and CMU walls, and painted gypsum board and suspended acoustical tile ceiling. The finishes were generally in good condition.

The classrooms consist of vinyl tile flooring, painted gypsum board and painted CMU walls, and suspended acoustical tile ceilings. The finishes were generally in good condition.

The finishes in the gym consist of wood flooring, painted CMU and painted gypsum board walls, and unfinished ceilings. The finishes in the gym were generally in good condition.



Photographs





Interior finishes of corridor area

Interior finishes of stair area



Interior finishes of classroom area



Interior finishes of gym area





Typical office area interior

Interior finishes of restroom area

3.8 Accessibility (ADA) Compliance

Comments

Facilities, including site features and buildings, completed and occupied after January 26, 1992 are required to comply fully with the Americans with Disabilities Act (ADA). Facilities constructed after this date must be maintained and operated to comply with the Americans with Disabilities Act Accessibility Guidelines (ADAAG). Existing facilities constructed prior to this date are held to the lesser standard of complying with the extent allowed by structural feasibility and the financial resources available, or a reasonable accommodation must be made. Title III, for the purposes of the ECS scope of work is to address public accommodations. ECS will note work that shall remove architectural barriers in existing facilities, including communication barriers, that are structural in nature, where such removal is readily achievable and able to be carried out without much difficulty or expense.

The Buford Middle School property is considered by the City of Charlottesville - Facilities Development to be within "areas of public accommodations" or a "commercial facility" and is therefore is subject to compliance with Title III of the ADA.

The parking area serving the property has a total of approximately 41 parking spaces. Of the parking spaces, Two are accessible with Two being van accessible. Accessibility requires that two accessible parking spaces be provided in parking areas with a total of 26 to 50 spaces. One in six of the accessible parking spaces are required to be van accessible. A minimum of a 60-inch wide access aisle is required to be provided for every two accessible parking spaces. Accessible aisles were observed to be provided. The number of parking spaces does meet accessibility requirements.



Photographs





Accessible parking spacees

Accessible curb cut ramp with truncated domes



Typical accessible restroom

Recommendations

Cost Recommendation	EUL	EFF AGE	RUL	Year	Cost
INSTALL ACCESSIBLE PARKING SIGNAGE	-	-	0	Immediate	\$500
Total					\$500



	ltem	Yes/ No	Comments
Α.	History		
1.	Has an ADA Survey been completed for this property?	Yes	
2.	Have any ADA improvements been made to the property since original construction?	Yes	installation of chairlift for gym
3.	Has building ownership/management reported any ADA complaints or litigation?	No	not reported
В.	Parking		
1.	Does the required number of standard ADA-designated spaces appear to be provided?	No	Two out of the 41 are accessible.
2.	Does the required number of van-accessible designated spaces appear to be provided?	No	Two out of the Two accessible spaces are van accessible
3.	Are accessible spaces part of the shortest accessible route to an accessible building entrance?	Yes	
4.	ls a sign with the International Symbol of Accessibility at the head of each space?	No	One sign located at aisle, no signs at spaces
5.	Does each accessible space have an adjacent access aisle?	Yes	No marked route to building
6.	Do parking spaces and access aisles appear to be relatively level and without obstruction?	Yes	
C.	Exterior Accessible Route		
1.	ls an accessible route present from public transportation stops and municipal sidewalks in the property?	Yes	
2.	Are curb cut ramps present at transitions through curbs on an accessible route?	Yes	
3.	Do curb cut ramps appear to have the proper slope for all components?	Yes	
4.	Do ramps on an accessible route appear to have a compliant slope?	Yes	



Uniform Abbreviated Screening Checklist for the 2010 Americans with Disabilities Ac			
	Item	Yes/ No	Comments
5.	Do ramps on an accessible route appear to have a compliant length and width?	Yes	
6.	Do ramps on an accessible route appear to have a compliant end and intermediate landings?	Yes	
7.	Do ramps on an accessible route appear to have compliant handrails?	Yes	
D.	Building Entrances		
1.	Do a sufficient number of accessible entrances appear to be provided?	Yes	
2.	If the main entrance is not accessible, is an alternate accessible entrance provided?	N/A	
3.	Is signage provided indicating the location of alternate accessible entrances?	N/A	
4.	Do doors at accessible entrances appear to have compliant clear floor area on each side?	Yes	
5.	Do doors at accessible entrances appear to have compliant hardware?	Yes	
6.	Do doors at accessible entrances appear to have complaint opening width?	Yes	
7.	Do pairs of accessible entrance doors in series appear to have the minimum clear space between them?	N/A	
8.	Do thresholds at accessible entrances appear to have compliant height?	Yes	
E.	Interior Accessible Routes and Amenities		
1.	Does an accessible route appear to connect with all public areas inside the building?	Yes	
2.	Do accessible routes appear free of obstructions and/or protruding objects?	No	
3.	Do ramps on accessible routes appear to have compliant slope?	N/A	
4.	Do ramps on accessible routes appear to have compliant length and width?	N/A	



	ltem	Yes/ No	Comments
' .	Are adjoining public areas and areas of egress identified with accessible signage?	Yes	
3.	Do public transaction areas have an accessible, lowered counter section?	Yes	
).	Do public telephones appear mounted with an accessible height and location?	N/A	
0.	Are publicly-accessible swimming pools equipped with an entrance lift?	N/A	
	Interior Doors		
	Do doors at interior accessible routes appear to have compliant clear floor area on each side?	Yes	
2.	Do doors at interior accessible routes appear to have compliant hardware?	Yes	
3.	Do doors at interior accessible routes appear to have compliant opening force?	Yes	
1.	Do doors at interior accessible routes appear to have a compliant clear opening width?	Yes	
i.	Elevators		
I.	Are hallway call buttons configured with the "UP" button above the "DOWN" button?	Yes	
<u>2</u> .	Is accessible floor identification signage present on the hoistway sidewalls?	Yes	
I .	Toilet Rooms		
۱.	Do publicly-accessible toilet rooms appear to have a minimum compliant floor area?	Yes	
2.	Does the lavatory appear to be mounted at a compliant height and with compliant knee area?	Yes	
3.	Does the lavatory faucet have compliant handles?	Yes	
1.	Is the plumbing piping under lavatories configured to protect against contact?	Yes	



Un	Uniform Abbreviated Screening Checklist for the 2010 Americans with Disabilities Act				
	ltem	Yes/ No	Comments		
5.	Are grab bars provided at compliant locations around the toilet?	Yes			
6.	Do toilet stall doors appear to provide the minimum compliant clear width?	N/A			
7.	Do toilet stalls appear to provide the minimum compliant clear floor area?	N/A			
8.	Do urinals appear to be mounted at a compliant height and with compliant approach width?	N/A			
9.	Do accessories and mirrors appear to be mounted at a compliant height?	Yes			



4.0 DOCUMENT REVIEW

4.1 DOCUMENTATION REVIEW

ECS requested relevant documentation from Josh Bontrager, to gain insight into the subject property's physical improvements, extent and type of use, and/or assist in identifying material discrepancies between reported information and observed conditions. ECS' review of documents submitted does not include commenting on the accuracy of such documents or their preparation, methodology, or protocol.

4.2 INTERVIEW SUMMARY

ECS was escorted through the property by Josh Bontrager and Shawn Davis who provided information about the property.



5.0 ADDITIONAL CONSIDERATIONS

5.1 MOISTURE AND MOLD

Comments

If present, evidence of mold and moisture issues are noted in the interior section of the report.



6.0 RECOMMENDATIONS AND OPINIONS OF COST

The opinion of cost are based upon approximate quantities, costs, and published information, and they include labor, material, design fees, and appropriate overhead, general conditions, and profit. A detailed analysis of quantities for cost estimating purposes is not included. The opinion of cost to repair, replace, or upgrade the improvements are considered typical for the marketplace. No contractors have provided pricing. The actual cost of repairs may vary from our opinions. ECS has not included contingency funds in our opinions. Amounts indicated represent today's dollars. ECS offers the following comments relative to Immediate and Capital Reserves criteria:

Immediate Issues

Physical deficiencies that require immediate action as a result of (i) existing or potentially unsafe conditions, (ii) significant negative conditions impacting tenancy, (iii) material building code violations, (iv) poor or deteriorated condition of critical element or system, or (v) a condition that is left "as is," with an extensive delay in addressing same, would result in or contribute to critical element or system failure within one year.

ECS has also included physical deficiencies inclusive of deferred maintenance that may not warrant immediate attention, but requiring repairs or replacements that should be undertaken on a priority basis, taking precedence over routine preventative maintenance work within a zero to one year time frame. Included are such physical deficiencies resulting from improper design, faulty installation, and/ or substandard quality of original systems or materials. Components or systems that have realized or exceeded their Expected Useful Life (EUL) that may require replacement to be implemented within a zero to one year time frame are also included.

Capital Reserves

Capital Reserves are for recurring probable expenditures, which are not classified as operational or maintenance expenses, which should be annually budgeted for in advance. Capital reserves are reasonably predictable both in terms of frequency and cost. However, they may also include components or systems that have an indeterminable life but nonetheless have a potential liability for failure within an estimated time period. A component method has also been included within this report as well.

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

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



ECS's reserve methodology involves identification and quantification of those systems or components requiring capital reserve funds within the evaluation period. Additional information concerning systems or components respective replacement costs (in today's dollars), typical expected useful lives, and remaining useful lives were estimated so that a funding schedule could be prepared. The Capital Reserve Schedule presupposes that all required remedial work has been performed or that monies for remediation have been budgeted for items defined in the Immediate Needs Cost Estimates.



7.0 FACILITY CONDITION INDEX (FCI)

In accordance with our proposal add alternate, ECS determined the Facility Condition Index (FCI) value for the Buford Middle School buildings. ECS determined the FCI value in accordance with industry standards and methodology sponsored by The National Association of College and University Business Officers (NACUBO). The FCI calculation methodology consists of dividing the total cost of Maintenance, Repair, and Replacement Deficiencies of the Facility by the Current Replacement Value of the Facility. FCI values and condition of the buildings based on the industry accepted interpretation of FCI values with ratings: good (under 0.05), fair (0.05 to 0.10), and poor (over 0.10).

Based on our Facility Condition Assessment, the total repair and replacement costs for the Buford Middle School is \$1,933,000. The replacement construction cost value obtained from the RS MEANS square foot estimator application is \$18,494,083.69. Please see attached documentation from RS MEANS program output as an appendix to the report. The calculated FCI value is determined to be 0.11. In accordance with the industry standards and methodology sponsored by The National Association of College and University Business Officers (NACUBO), the condition of the Buford Middle School is rated as poor.

The letter rating for the school buildings is based on the FCI values with the ratings system provided by you referenced from the City of Alexandria as follows : A (under 0.10), B (0.11 to 0.20), C (0.21 to 0.40), D (0.41 to 0.60), and F (0.61 to 1.00+).

The letter rating for the Buford Middle School was determined to be B.



8.0 LIMITATIONS AND QUALIFICATIONS

ECS's FCA cannot wholly eliminate the uncertainty regarding the presence of physical deficiencies and the performance of a property's building systems. Preparation of a FCA in accordance with ASTM E 2018-15 "Standard Guide for Property Condition Assessments: Baseline Property Condition Assessment Process" is intended to reduce, but not eliminate, the uncertainty regarding the potential for component or system failure and cannot reduce the potential that such component or system may not be initially observed.

This FCA was prepared recognizing the inherent subjective nature of ECS's opinions as to such issues as workmanship, quality of original installation, and estimating the remaining useful life of any given component or system. It should be understood that ECS's suggested remedy may be determined under time constraints, formed without the aid of engineering calculations, testing, exploratory probing, the removal of materials, or design. Furthermore, there may be other alternate or more appropriate schemes or methods to remedy the physical deficiency. ECS's opinions are generally formed without detailed knowledge from individuals familiar with the component's or system's performance.

The opinions ECS expresses in this report were formed utilizing the degree of skill and care ordinarily exercised by a prudent professional in the same community under similar circumstances. ECS assumes no responsibility or liability for the accuracy of information contained in this report which has been obtained from the Client or the Client's representatives, from other interested parties, or from the public domain. The conclusions presented represent ECS' professional judgment based on information obtained during the course of this assignment. ECS's evaluations, analyses and opinions are not representations regarding the design integrity, structural soundness, or actual value of the property. Factual information regarding operations, conditions and test data provided by the Client or their representative has been assumed to be correct and complete. The conclusions presented are based on the data provided, observations made, and conditions that existed specifically on the date of the assessment.

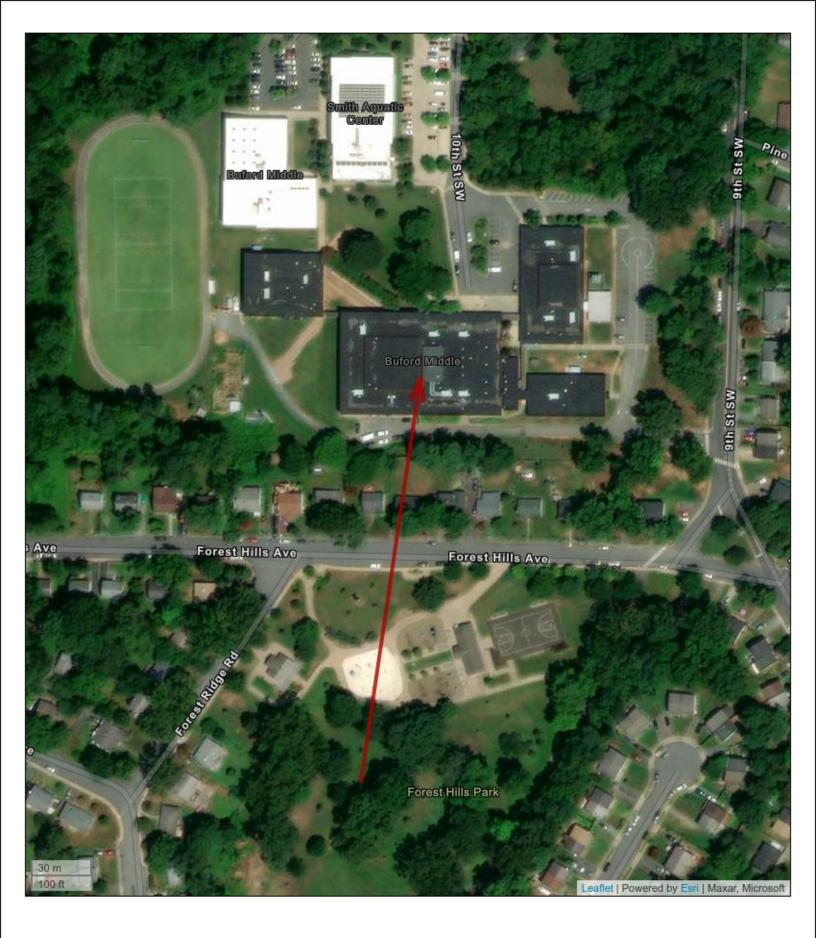


Appendix I: SITE MAP AND AERIAL PHOTOGRAPH











Aerial Photograph Buford Middle School - FCA 2021



Appendix II: FIRE SPRINKLER INSPECTION

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INSPECTION AND TESTING FORM OF WATER BASED FIRE PROTECTION SYSTEMS

1. PROPERTY INFORMATION

Name of property: <u>Buford Middle School (4433-22903-00029)</u> Address: <u>Buford Middle School</u> Description of property: Name of property representative: <u>City of Charlottesville (30548899)</u>, Jason Davis (434-964-6771) davisja@charlottesville.org Address: <u>315 4th St NW, Charlottesville, VA 22903</u> Phone: <u>434-962-3643</u> Fax: <u>434-970-3026</u> E-mail: <u>staplesk@charlottesville.org</u>

2. TESTING INFORMATION

Testing Organization: <u>SIEMENS</u> Organization License No.: Address: <u>5106 Glen Alden Drive</u>, Richmond, VA 23231 Phone: <u>804-222-6680</u> Fax: <u>None</u> E-mail: <u>None</u> Start Date/Time: <u>Completion Date/Time</u>: <u>4.6.21</u> Contract Info: <u>City of CVille Sprinkler (2600105673)</u> Notification Number: <u>5102050598</u> Inspection Type: <u>Quarterly</u>

NOTES: 1) All questions are to be answered Yes, No, or Not Applicable (NA). Explain all No answers in Parts 6, 7, or 8 of this form.
 2) Inspection, Testing, and Maintenance are to be performed with water supplies (including fire pumps) in service, unless the impairment procedures of NFPA 25 are followed.

3. GENERAL INFORMATION (TO BE COMPLETED BY OWNER) Is the building fully sprinklered?

is the building fully spinklered?	
Has the occupancy classification and hazard of contents remained the same since last inspection?	
Are all fire protection systems in service?	
Has the system remained in service without modification since last inspection?	
Have any fire systems, devices or alarms activated since the last inspection?	
If a fire has occurred since the last inspection, have all damaged sprinkler system components been replaced?	

4. INSPECTOR'S SECTION

4.1 Inspections

Control valves in the correct (open or closed) position and free from external leaks?	Yes
Control valves locked, sealed or supervised?	Yes
Hydraulic nameplate (calculated systems) securely attached and legible?	No
Alarm and/or dry pipe valves free from physical damage, trim valves in appropriate position and no leakage?	Yes
Water flow alarm devices free from physical damage?	Yes
Fire department connections visible, signage, accessible, free from damage, couplings free, and caps in place?	Yes
Gauges in good condition showing normal pressure?	Yes
Adequate heat in areas with wet piping?	Yes
Post indicator valves are provided with a correct wrench and in the normal position?	(NA)
Backflow preventers relief port on RPZ device not discharging?	(NA)
For freezer systems, is the gauge near the compressor reading the same as the gauge near the dry-valve?	(NA)
Pressure Reducing valves are in the open position, not leaking, maintain downstream pressure accordance with the design criteria, good condition, and handwheels not broken?	(NA)
Valve encloser for pre-action, deluge and dry systems are above 40f?	(NA)
4.2 Testing	
Post indicating valves opened until spring or torsion is felt in the rod, then backed off one-quarter turn?	(NA)
Valve supervisory switches indicate movement?	(NA)
Mechanical water flow alarm device passed tests by opening the inspector's test or bypass connection with alarms actuating and flow observed?	(NA)

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NFPA 25 REPORT



Electrical Waterflow (Vane type, Paddle-type, and Pressure Switch-type) alarm devices passed tests by opening the inspector's test connection or bypass connection with alarm actuating, and flow is observed?	(NA)
Priming level of dry pipe valves correct?	(NA)
Quick opening devices of dry pipe systems passed?	(NA)
Air compressor or nitrogen system in good condition per manufacture maintenance procedure?	(NA)
Low air pressure signal of dry pipe system passed?	(NA)
Main Drain Test water pressure is within 10% reduction in full flow pressure compared to previous test?	(NA)



5. MAIN DRAIN / TRIP TESTS RESULTS

5.1 Report Totals

Total Qty	Functionally Tested Qty	Functionally Tested %	Visually Tested Qty	Visually Tested %	Failed Qty	Failed %	
5	0	0%	4	80%	0	0%	

5.2 Report Totals by Type

Total Qty	Functionally Tested Qty	Functionally Tested %	Visually Tested Qty	Visually Tested %	Failed Qty	Failed %	Device or System Type
4	0	0%	4	100%	0	0%	Wet Sprinkler Systems
1	0	0%	0	0%	0	0%	Sprinkler FDC - 2 Inlets

5.3 Report Details by Type

low	Date	Address	Location	Model	Water	Source		Static	Restore		Visual/	Pass/
					Source	PSI	Pipe Size	PSI	Time (sec)	Performed	Functional	Fail
	04/06/21	01:Wet-A	Building A Main Riser	4 inch	City	70	2	80	1	Yes	Visual	Pass
				Reliable								
				Check								
2	04/06/21	01:Wet-B	Building B Main Riser in Outside Mechanical Room.	Shotgun	City	70	2	75	1	Yes	Visual	Pass
3	04/06/21	01:Wet-C	Building C Womens Locker Room	Viking F-1	City	70	2	85	1	Yes	Visual	Pass
1	04/06/21	01:Wet-D	Building D Main Riser in Classroom D405 Ceiling	Shotgun	City	70	2	75	1	Yes	Visual	Pass

Row Date	Address	Location	Visual/	Pass/
			Functional	Fail
1	01:FDC	Outside Main Riser Room		

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6. COMMENTS

Address	Location	NFPA Classification	Comment:
01:Wet-A	Building A Main	Wet Sprinkler	5 Year tag indicates that it is due in September 2021, however, the gauges show they were last replaced 5-12-
	Riser		2015.
01:Wet-B	Building B Main	Wet Sprinkler	5 Year tag indicates that it will be due in September 2021, however, the gauges were installed and dated 5-12-
	Riser in Outside		2015.
	Mechanical Room.		
01:Wet-C	Building C Womens	Wet Sprinkler	5 Year tag indicates that it is due in September 2021, however, the gauges show they were last replaced 5-12-
	Locker Room		2015.
01:Wet-D	Building D Main	Wet Sprinkler	5 Year tag indicates that it is due in September 2021, however, the gauges show they were last replaced 5-12-
	Riser in Classroom		2015.
	D405 Ceiling		

7. DEFICIENCIES (ONLY RELATED TO NFPA 25)

A condition that will or has the potential to adversely impact the performance of a system or portion thereof but does not rise to the level of an impairment.

Address	Location	NFPA Classification	Deficiencies:
01:Wet-A	Building A Main	Wet Sprinkler	None to report.
	Riser		
01:Wet-B	Building B Main	Wet Sprinkler	None to report.
	Riser in Outside		
	Mechanical Room.		
01:Wet-C	Building C Womens	Wet Sprinkler	None to report.
	Locker Room		
01:Wet-D	Building D Main	Wet Sprinkler	None to report.
	Riser in Classroom		
	D405 Ceiling		

8. IMPAIRMENTS

A condition where a fire protection system or unit or portion thereof is out of order, and the condition can result in the fire protection system or unit not functioning in a fire event.

Address	Location	NFPA Classification	Impairments:
01:Wet-A	Building A Main	Wet Sprinkler	None to report.
	Riser		
01:Wet-B	Building B Main	Wet Sprinkler	None to report.
	Riser in Outside		
	Mechanical Room.		
01:Wet-C	Building C Womens	Wet Sprinkler	None to report.
	Locker Room		
01:Wet-D	Building D Main	Wet Sprinkler	None to report.
	Riser in Classroom		
	D405 Ceiling		

9. CERTIFICATION

This Testing Was Performed in Accordance with Applicable NFPA Standards.

I state that the information on this form is correct at the time and place of my inspection and that all equipment tested at this time was left in operational condition upon completion of this inspection except as noted in Parts 6, 7, and 8 above.

Name of Inspector:

Inspector License #:

Signature:

RAIG BROWN

Date: 4.6.21

10. ACCEPTANCE BY OWNER OR OWNER'S REPRESENTATIVE

Name of Owner or Representative: Jason Davis

Signature:

Date:

The owner and/or designated representative acknowledges the responsibility of the operating condition of the component parts at the time of this inspection. Pursuant to the National Fire Protection Association Form 25, Chapter 4, the owner is responsible for proper maintenance and care of the sprinkler system. It is agreed that the inspection service provided by the contractor as prescribed herein is limited to performing a visual inspection and/or routine testing, and any investigation or unscheduled testing, modification, maintenance, repair, etc., of the component parts is not included as part of the inspection work performed. It is understood that this inspection pertains to the condition of the sprinkler system on the day of inspection only. This inspection meets or exceeds NFPA 25 requirements and or local AHJ requirements. AHJ

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requirements supersede all other code requirements. The inspector shall not be liable for future defaults or defects in the sprinkler system which are beyond the inspector's control, including, but not limited to, failure from malicious tampering, accidents, lack of proper inspection, material failure or inadequate heating. The inspector can give no assurance, nor will be held liable, with regard to work that may have been previously performed or work performed at a future date by other companies. It is further understood that all information contained herein is provided to the best of the knowledge of the party providing such information.

Appendix III: ELEVATOR CERTIFICATES

E & F ELEVATOR INSPECTIONS AND CONSULTING, INC. PO BOX 176 CROZIER, VIRGINIA 23039 (804) 784-1945 CHECKLIST FOR INSPECTION OF HYDRAULIC ELEVATORS

GENERAL NOTES:

(a) See ASME A17.2.1 for detailed code requirements.

(b) OK - meets requirements, NG - insert number to identify comment of back of the Checklist, NA - not applicable.

Address: Buford Middle School

617 9th St. S. W. Charlottesville, VA [] Routine inspection and test
[X] Periodic inspection and test
[] Acceptance inspection and test

Id No: 1

Our Number: CS102 - 1982

	OK	NG	NA		OK	NG	NA
1. INSIDE OF CAR				2.16 Tanks	X		
1.1 Door reopening device	X			2.17 Flexible hydraulic hose asemblies			Χ
1.2 Stop switch	Х			2.18 Supply line and shut-off valve	Χ		
1.3 Operating control device	Х			2.19 Hydraulic cylinder			X
1.4 Car floor and landing sill.	Х			2.20 Pressure switch	Χ		
1.5 Car lighting	X			2.21 Governor, overspeed switch & seal			Χ
1.6 Car emergency signal	X			2.22 Code data plate			X
1.7 Car door or gate	X						
1.8 Door closing force	Х			3. TOP OF CAR			
1.9 Power closing of doors and gates	Х			3.1 Stop switch	Χ		
1.10 Power opening of doors or gates	Х			3.2 Car top light and outlet	Χ		
1.11 Car vision panels and glass car doors			Х	3.3 Top of car operating device	X		
1.12 Car enclosure	X			3.4 Top of car clearance, refuge space	Х		
1.13 Emergency exit			Х	3.5 Normal terminal stopping device	Х		
1.14 Ventilation	X			3.6 Emergency terminal speed limiting			X
1.15 Operating device symbols	X			3.7 Anti-creep leveling device	X		
1.16 Rated load, platform area, data plate	X			3.8 Crosshead data plate	X		
1.17 Standby power operation			X	3.9 Top emergency exit	X		
1.18 Restricted opening of doors			X	3.10 Floor number identification			X
1.19 Car ride	X			3.11 Hoistway construction	Χ		
				3.12 Hoistway smoke control			X
2. MACHINE ROOM				3.13 Pipes, wiring, & ducts	Χ		
2.1 Access to machine	Х			3.14 Windows, projections, recesses, setbacks	Χ		
2.2 Headroom	Х			3.15 Hoistway clearances	Χ		
2.3 Lighting and receptacles	X			3.16 Multiple hoistway			X
2.4 Enclosure of machinery space	X			3.17 Traveling cables, junction boxes	X		
2.5 Housekeeping	Х			3.18 Door and gate equipment	Χ		
2.6 Ventilation			Χ	3.19 Car frame and stiles	X		
2.7 Fire extinguisher	Х			3.20 Guide rails fastening & equipment	X		
2.8 Pipes, wiring, and ducts	Х			3.21 Governors releasing carrier			X
2.9 Guarding of exposed equipment	Х			3.22 Governor rope			X
2.10 Numbering of elevator equipment			Χ	3.23 Wire rope fastening and hitch plate			X
2.11 Disconnecting means and control	X			3.24 Suspension rope			X
2.12 Controller wiring, fuses, grounding	X			3.25 Slack rope device			X
2.13 Hydraulic power unit			Х	3.26 Traveling sheave			X
2.14 Relief valves	X			3.27 Counterweight			X
2.15 Control valve	X						

Х

		ОК	NG	NA			ОК	NG	NA
4.	O UTSIDE HO ISTWAY				5.	PIT			
4.1	Car platform guard	X			5.1	Pit access, lighting & stop switch	X		
4.2	Hoistway doors	X			5.2	Bottom clearance and runby	X		
4.3	Vision panels			X	5.3	Plunger and cylinder	X		
4.4	Hoistway door locking device	X			5.4	Car buffer	X		
4.5	Access to hoistway	X			5.5	Normal terminal stopping devices	X		
4.6	Power closing of hoistway doors			X	5.6	Traveling cables	X		
4.7	Sequence operation			X	5.7	Car frame & platform	X		
4.8	Hoistway enclosure	X			5.8	Guiding members	X		
4.9	Elevator parking device			X	5.9	Supply piping	X		
4.10	Emergency doors in blind hoistways			X	5.10	Car safety - including roped-hydraulic			X
4.11	Standby power selection switch			X	5.11	Governor rope tension device			X
									i —

CHECKLIST FOR INSPECTION OF HYDRAULIC ELEVATORS

MAINTENANCE

6.

FIREFIGHTERS SERVICE

No violations.

<u>OWNER</u>

Appendix IV: RS MEANS ESTIMATE FOR FACILITY CONDITION INDEX (FCI)

Estimate Name	Buford Middle
	City of Charlottesville 1000 Cherry Avenue Charlottesville Virginia 22902
Building Type	School, Jr High, 2-3 Story with Brick Veneer / Reinforced Concrete
Location	CHARLOTTESVILLE, VA
	2.00
Stories Height	15.00
Floor Area (S.F.)	110,650.00
LaborType	OPN
Basement Included	No
Data Release	Year 2021
Cost Per Square Foot	\$167.14
Total Building Cost	\$18,494,083.69



Date: 2/11/2022

Costs are derived from a building model with basic components. Scope differences and market conditions can cause costs to vary significantly.

Assembly Customization Type :						
🕀 Added						
Partially Swapped						
Fully Swapped						

		Quantity	% of Total	Cost Per SF	Cost
A Substructure			4.0%	\$4.99	\$552,057.61
A1010	Standard Foundations			\$2.42	\$267,581.72
	Foundation wall, CIP, 4' wall height, direct chute, .148 CY/LF, 7.2 PLF, 12" thick	2,000.00		\$1.22	\$135,282.00
	Strip footing, concrete, reinforced, load 14.8 KLF, soil bearing capacity 6 KSF, 12" deep x 32" wide	2,000.00		\$0.76	\$83,662.00
	Spread footings, 3000 PSI concrete, load 200K, soil bearing capacity 6 KSF, 6' - 0" square x 20" deep	64.38		\$0.44	\$48,637.72
A1030	Slab on Grade			\$2.46	\$272,658.20
	Slab on grade, 4" thick, non industrial, reinforced	55,325.00		\$2.46	\$272,658.20

		Quantity	% of Total	Cost Per SF	Cost
A2010	Basement Excavation			\$0.11	\$11,817.70
	Excavate and fill, 30,000 SF, 4' deep, sand, gravel, or common earth, on site storage	96,818.75		\$0.11	\$11,817.70
B Shell			34.3%	\$42.89	\$4,745,229.52
B1010	Floor Construction			\$9.46	\$1,046,535.65
	Cast-in-place concrete column, 16", square, tied, minimum reinforcing, 300K load, 10'-14' story height, 240 lbs/LF, 4000PSI	2,260.00		\$1.54	\$170,375.75
	Cast-in-place concrete beam and slab, 7.5" slab, two way, 12" column, 25'x25' bay, 40 PSF superimposed load, 149 PSF total load	55,325.00		\$7.92	\$876,159.90
B1020	Roof Construction			\$7.33	\$811,288.57
	Roof, concrete, beam and slab, 25'x25' bay, 40 PSF superimposed load, 20" deep beam, 9" slab, 152 PSF total load	55,325.00		\$7.33	\$811,288.57
B2010	Exterior Walls			\$12.12	\$1,340,883.00
	Brick wall, composite double wythe, standard face/CMU back-up, 8" thick, perlite core fill, 3" XPS	45,000.00		\$12.12	\$1,340,883.00
B2020	Exterior Windows			\$9.09	\$1,005,579.00
	Aluminum flush tube frame, for insulating glass, 2" x 4-1/2", 5'x6' opening, no intermediate horizontals	15,000.00		\$3.38	\$373,757.25
	Glazing panel, insulating, 1/2" thick, 2 lites 1/8" float glass, tinted	15,000.00		\$5.71	\$631,821.75
B2030	Exterior Doors			\$0.87	\$96,366.38
	Door, aluminum & glass, without transom, wide stile, double door, hardware, 6'-0" x 7'-0" opening	3.02		\$0.20	\$22,498.21
	Door, steel 18 gauge, hollow metal, 1 door with frame, no label, 3'-0" x 7'-0" opening	24.14		\$0.61	\$67,472.88
	Door, steel 24 gauge, overhead, sectional, electric operator, 8'-0" x 8'-0" opening	2.01		\$0.06	\$6,395.29
B3010	Roof Coverings			\$3.82	\$422,267.25
	Roofing, single ply membrane, EPDM, 60 mils, loosely laid, stone ballast	55,325.00		\$0.86	\$95,684.59
	Insulation, rigid, roof deck, extruded polystyrene, 40 PSI compressive strength, 4" thick, R20	55,325.00		\$1.98	\$219,213.14
	Base flashing, aluminum, .016" thick, fabric 2 sides, .025" aluminum reglet, .032" counter flashing	2,000.00		\$0.44	\$48,783.10
	Roof edges, aluminum, duranodic, .050" thick, 6" face	2,000.00		\$0.45	\$50,319.60
	Flashing, aluminum, no backing sides, .019"	2,000.00		\$0.07	\$8,266.82
B3020	Roof Openings			\$0.20	\$22,309.68
	Roof hatch, with curb, 1" fiberglass insulation, 2'-6" x 3'-0", galvanized steel, 165 lbs	8.05		\$0.09	\$10,117.03

RSMeans data

		Quantity	% of Total	Cost Per SF	Cost
	Smoke hatch, unlabeled, galvanized, 2'-6" x 3', not incl hand winch operator	8.05		\$0.11	\$12,192.6
C Interiors	which operator		23.9%	\$29.83	\$3,301,228.12
C1010	Partitions		23.970	\$4.66	\$515,444.9
	Concrete block (CMU) partition, light weight, hollow, 6" thick, no	6,639.00		\$ 0. 41	\$45,826.0
	finish	0,000.00		\$0. 4 1	φ + 5,620.0
	Concrete block (CMU) partition, light weight, hollow, 6" thick, no finish, foamed in insulation	59,751.00		\$4.24	\$469,618.9
C1020	Interior Doors			\$1.45	\$159,901.7
	Door, single leaf, kd steel frame, hollow metal, commercial quality, flush, 3'-0" x 7'-0" x 1-3/8"	147.53		\$1.45	\$159,901.7
C1030	Fittings			\$6.72	\$743,919.7
	Toilet partitions, cubicles, ceiling hung, painted metal	110.65		\$0.71	\$78,838.9
	Lockers, steel, 1- tier, std. duty, 5' to 6' high, per opening, 1 wide, knock down constr.	3,017.73		\$5.67	\$627,548.4
	Chalkboards, liquid chalk type, aluminum frame & chalktrough	2,213.00		\$0.34	\$37,532.4
C2010	Stair Construction			\$0.79	\$87,268.6
	Stairs, steel, pan tread for conc in-fill, picket rail,12 risers w/ landing	8.05		\$0.79	\$87,268.6
C3010	Wall Finishes			\$3.66	\$404,981.8
	2 coats paint on masonry with block filler	119,502.00		\$2.16	\$238,559.4
	2 coats paint on masonry with block filler	45,000.00		\$0.81	\$89,832.6
	Ceramic tile, thin set, 4-1/4" x 4-1/4"	13,278.00		\$0.69	\$76,589.7
C3020	Floor Finishes			\$4.99	\$552,511.0
	Carpet, tufted, nylon, roll goods, 12' wide, 36 oz	11,065.00		\$0.49	\$53,977.7
	Terrazzo, maximum	11,065.00		\$1.88	\$208,174.7
	Vinyl, composition tile, maximum	77,455.00		\$1.71	\$188,989.43
	Oak strip, sanded and finished, minimum	11,065.00		\$0.72	\$79,933.7
	Underlayment, plywood, 3/8" thick	11,065.00		\$0.19	\$21,435.4
C3030	Ceiling Finishes			\$7.57	\$837,200.0
	Acoustic ceilings, 3/4" fiberglass board, 24" x 48" tile, tee grid, suspended support	110,650.00		\$7.57	\$837,200.0
D Services			33.1%	\$41.40	\$4,580,680.4
D1010	Elevators and Lifts			\$0.75	\$82,864.8
	Hydraulic passenger elevator, 2500 lb., 2 floor, 125 FPM	1.01		\$0.75	\$82,864.8
D2010	Plumbing Fixtures			\$6.02	\$666,475.32

		Quantity	% of Total	Cost Per SF	Cost
	Water closet, vitreous china, bowl only with flush valve, floor mount	110.65		\$1.40	\$154,846.38
	Urinal, vitreous china, wall hung	37.22		\$0.40	\$44,521.49
	Lavatory w/trim, wall hung, PE on CI, 20" x 18"	110.65		\$1.66	\$183,300.02
	Kitchen sink w/trim, countertop, stainless steel, 44" x 22" triple bowl	9.05		\$0.19	\$20,601.65
	Lab sink w/trim, polyethylene, single bowl, flanged, 23-1/2" x 20-1/2" OD	12.07		\$0.15	\$16,494.05
	Service sink w/trim, PE on CI, corner floor, 28" x 28", w/rim guard	6.04		\$0.20	\$22,213.94
	Shower, stall, baked enamel, terrazzo receptor, 36" square	37.22		\$0.99	\$109,618.19
	Water cooler, electric, wall hung, wheelchair type, 7.5 GPH	55.33		\$1.04	\$114,879.60
D2020	Domestic Water Distribution			\$0.74	\$81,694.3
	Gas fired water heater, commercial, 100< F rise, 300 MBH input, 278 GPH	4.25		\$0.74	\$81,694.35
D2040	Rain Water Drainage			\$0.36	\$40,064.18
	Roof drain, CI, soil, single hub, 5" diam, 10' high	15.00		\$0.33	\$36,397.13
	Roof drain, CI, soil,single hub, 5" diam, for each additional foot add	75.00		\$0.03	\$3,667.05
D3050	Terminal & Package Units			\$18.55	\$2,052,286.41
	Rooftop, multizone, air conditioner, schools and colleges, 25,000 SF, 95.83 ton	110,650.00		\$18.55	\$2,052,286.41
D4010	Sprinklers			\$2.14	\$236,786.57
	Wet pipe sprinkler systems, steel, light hazard, 1 floor, 50,000 SF	55,325.00		\$1.23	\$136,513.88
	Wet pipe sprinkler systems, steel, light hazard, each additional floor, 50,000 SF	55,325.00		\$0.91	\$100,272.69
D4020	Standpipes			\$0.42	\$46,390.82
	Wet standpipe risers, class III, steel, black, sch 40, 6" diam pipe, 1 floor	2.01		\$0.28	\$30,771.16
	Wet standpipe risers, class III, steel, black, sch 40, 6" diam pipe, additional floors	4.02		\$0.14	\$15,619.66
D5010	Electrical Service/Distribution			\$0.89	\$98,098.67
	Overhead service installation, includes breakers, metering, 20' conduit & wire, 3 phase, 4 wire, 120/208 V, 1600 A	1.26		\$0.23	\$24,911.34
	Feeder installation 600 V, including RGS conduit and XHHW wire, 1600 A	100.59		\$0.28	\$31,473.89
	Switchgear installation, incl switchboard, panels & circuit breaker, 120/208 V, 3 phase, 1600 A	1.21		\$0.38	\$41,713.44

		Quantity	% of Total	Cost Per SF	Cost
D5020	Lighting and Branch Wiring			\$7.70	\$852,219.11
	Receptacles incl plate, box, conduit, wire, 8 per 1000 SF, .9 W per SF, with transformer	110,650.00		\$2.43	\$269,178.26
	Wall switches, 2.0 per 1000 SF	110,650.00		\$0.33	\$36,293.20
	Miscellaneous power, 1.2 watts	110,650.00		\$0.25	\$27,529.72
	Central air conditioning power, 4 watts	110,650.00		\$0.51	\$56,840.91
	Motor installation, three phase, 460 V, 15 HP motor size	1.01		\$0.02	\$1,868.22
	Motor feeder systems, three phase, feed to 200 V 5 HP, 230 V 7.5 HP, 460 V 15 HP, 575 V 20 HP	100.59		\$0.01	\$835.51
	Fluorescent fixtures recess mounted in ceiling, 1.6 watt per SF, 40 FC, 10 fixtures @32watt per 1000 SF	110,650.00		\$4.15	\$459,673.30
D5030	Communications and Security			\$3.47	\$384,386.58
	Communication and alarm systems, includes outlets, boxes, conduit and wire, sound systems, 100 outlets	0.80		\$0.73	\$81,032.01
	Communication and alarm systems, fire detection, addressable, 100 detectors, includes outlets, boxes, conduit and wire	1.26		\$0.69	\$76,105.82
	Fire alarm command center, addressable with voice, excl. wire & conduit	1.01		\$0.11	\$11,820.44
	Communication and alarm systems, includes outlets, boxes, conduit and wire, intercom systems, 100 stations	1.08		\$1.03	\$114,483.07
	Communication and alarm systems, includes outlets, boxes, conduit and wire, master clock systems, 30 rooms	1.43		\$0.59	\$65,784.54
	Internet wiring, 2 data/voice outlets per 1000 S.F.	77.46		\$0.32	\$35,160.70
D5090	Other Electrical Systems			\$0.36	\$39,413.53
	Generator sets, w/battery, charger, muffler and transfer switch, diesel engine with fuel tank, 100 kW	100.59		\$0.36	\$39,413.53
E Equipment & Furnishin			4.7%	\$5.86	\$648,156.63
E1020	Institutional Equipment			\$2.08	\$229,950.58
	Architectural equipment, laboratory equipment, counter tops, acid proof, economy	1,106.50		\$0.65	\$71,760.18
	Architectural equipment, laboratory equipment, cabinets, wall, open	160.00		\$0.38	\$41,617.28
	Architectural equipment, laboratory equipment, cabinets, base, drawer units	160.00		\$1.05	\$116,573.12
E1090	Other Equipment			\$3.78	\$418,206.05
	Architectural equipment, school equipment basketball backstops, suspended type, electrically operated	4.02		\$0.30	\$32,962.43

		Quantity	% of Total	Cost Per SF	Cost
	Architectural equipment, school equipment bleachers-telescoping, manual operation, 15 tier, economy (per seat)	3,017.73		\$3.40	\$375,711.57
	Architectural equipment, school equipment, weight lifting gym, universal, economy	4.02		\$0.03	\$3,278.38
	Architectural equipment, school equipment, scoreboards, basketball, 1 side, economy	2.01		\$0.06	\$6,253.67
F Special Construction			0.0%	\$0.00	\$0.00
G Building Sitework			0.0%	\$0.00	\$0.00
Sub Total			100%	\$124.96	\$13,827,352.29
Contractor's Overhead & P	rofit		25.0 %	\$31.24	\$3,456,838.07
Architectural Fees			7.0 %	\$10.93	\$1,209,893,33
User Fees			0.0 %	\$0.00	\$0.00
Total Building Cost				\$167.14	\$18,494,083.69

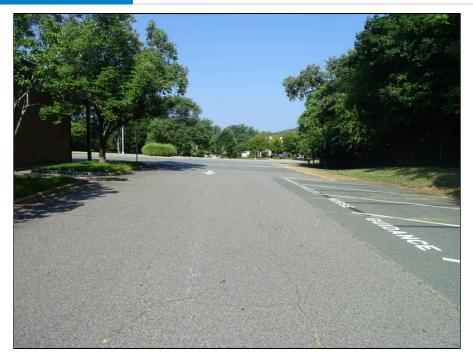
Appendix V: SITE PHOTOGRAPHS



1 - Buford Middle School



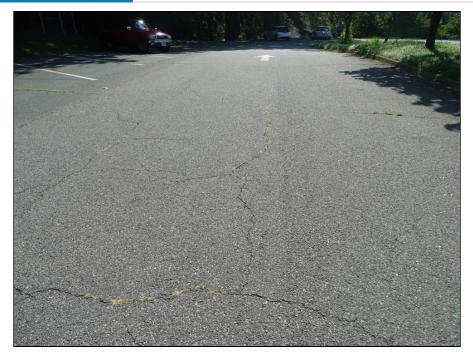
2 - Asphalt pavements north side of the site



3 - Asphalt pavements southeast entrance drive lane



4 - Asphalt pavements east side of the site drive lane - note cracking



5 - Asphalt pavements - note alligator cracks



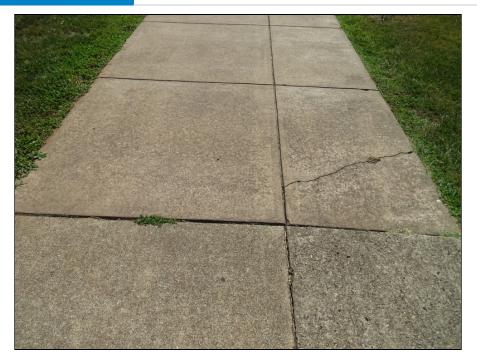
6 - Asphalt pavements east side of the site drive lane - note cracking and previous repair



7 - Asphalt pavement area at southwest area of the site



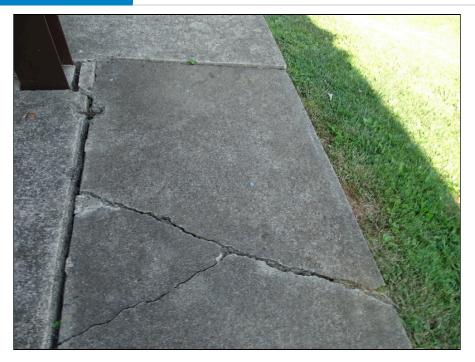
8 - Concrete sidewalk west side of Building B - note cracking



9 - Typical concrete sidewalk - note cracking



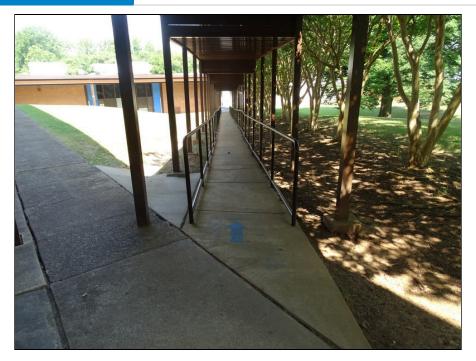
10 - Typical concrete sidewalk - note deterrioration



11 - Typical concrete sidewalk - note cracking



12 - Steps at north end of the site



13 - Ramp to Building C (Gym)



14 - Landscaping at north end of the site



15 - Dumpster area at southwest area of the site



16 - Building exterior northeast side of the building



17 - Building exterior north side of the building



18 - Building exterior - note efflorescence



19 - Building exterior - note need cleaning



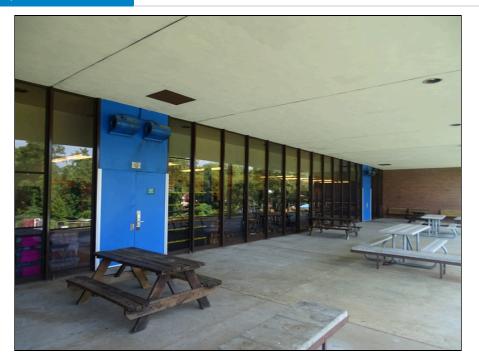
20 - Building exterior west side of the building



21 - Main entrance doors



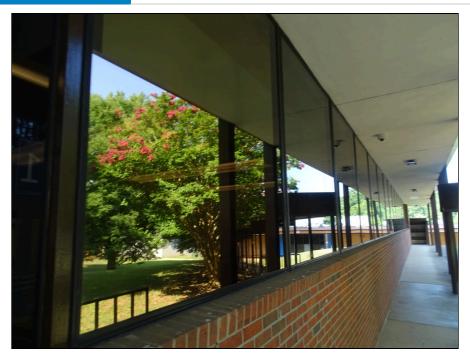
22 - Typical personnel doors



23 - Typical exterior window



24 - Typical exterior window



25 - Older exterior windows - note reportedly wide temperature fluctuation in offices



26 - Typical operable exterior windows



27 - Typical exterior window - note fog inside the glass



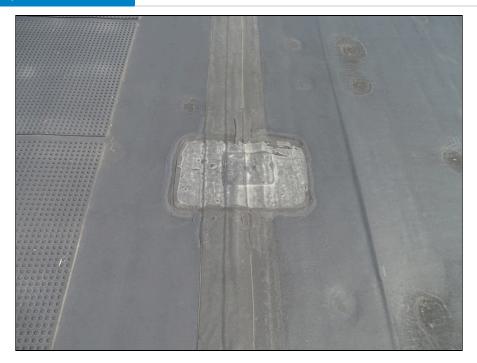
28 - Typical exterior window - note gasket deterioration



29 - Typical exterior window - note gasket deterioration



30 - Single-ply roofing system looking west



31 - Single-ply roofing system - note patching



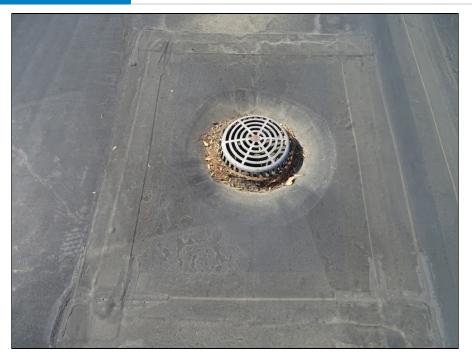
32 - Typical interior ceiling - note water leakage



33 - Single-ply roofing system - note ponding



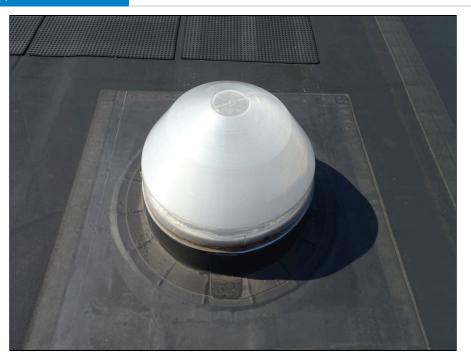
34 - Single-ply roofing system - note ponding



35 - Typical internal drain



36 - Typical plumbing penetration



37 - Typical skylights



38 - Typical skylights



39 - Typical skylights



40 - Electric water heater located in janitor's closet



41 - Boiler located in main utility room



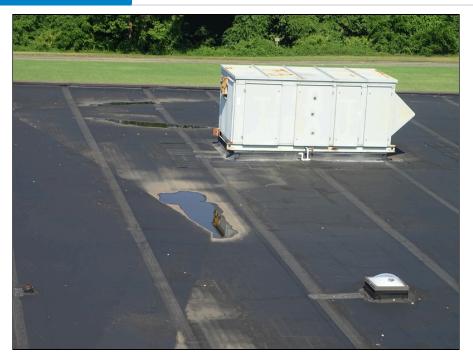
42 - chiller located in main utility room



43 - Cooling Tower located at east end of the site



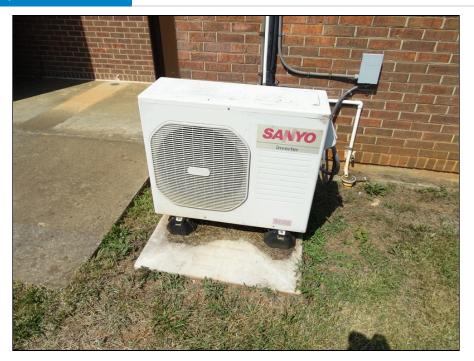
44 - Typical Make Up Air Unit located on roof



45 - Typical Make Up Air Unit located on roof



46 - Typical Water Source Heat Pump



47 - Split System for IT room



48 - Wall mounted air conditioner unit



49 - Typical mechanical duct



50 - Typical mechanical duct



51 - Energy Management System



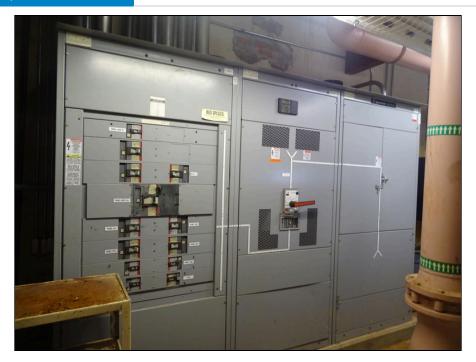
52 - Typical controls



53 - Electric utility transformer



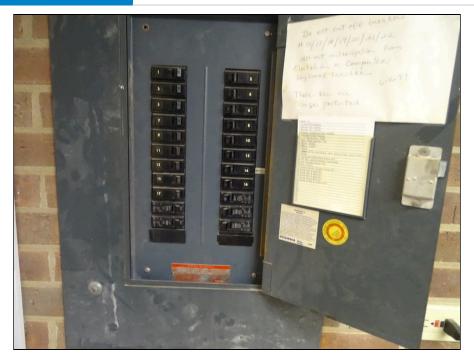
54 - Electric utility meter



55 - Main electrical switchgear



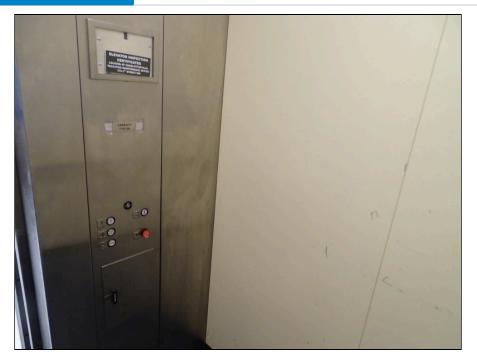
56 - Typical newer electrical circuit breaker panel



57 - Typical older electrical circuit breaker panel



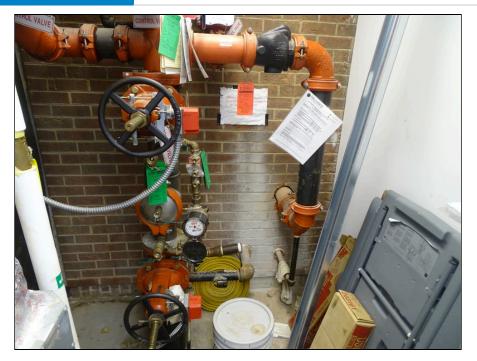
58 - Elevator cab



59 - Elevator cab interior



60 - Elevator machine and controls



61 - Fire sprinkler system



62 - Typical fire sprinkler head



63 - Typical fire extinguisher



64 - Fire Department Connections



65 - Fire alarm control panel



66 - Typical fire alarm bell, strobe



67 - Typical fire alarm bell, strobe



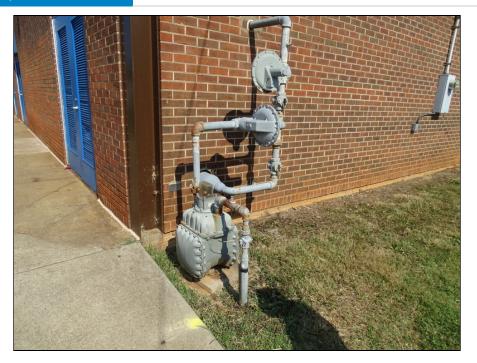
68 - Typical exit sign



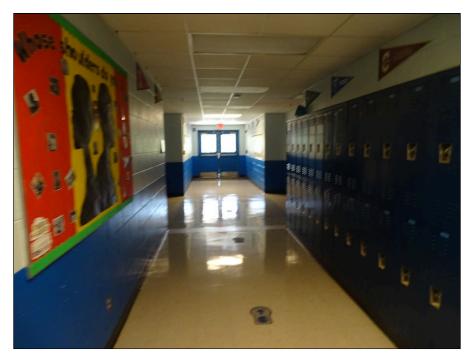
69 - Emergency light



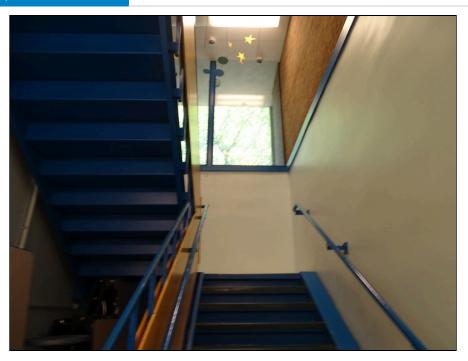
70 - Typical security camera



71 - Typical gas meter



72 - Interior finishes of corridor area



73 - Interior finishes of stair area



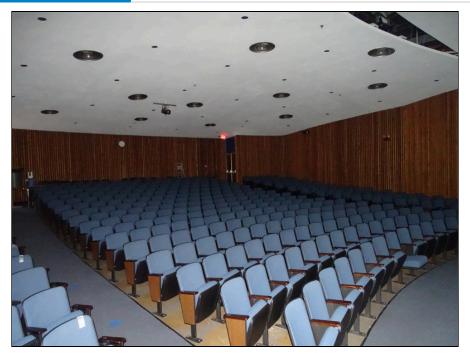
74 - Interior finishes of cafeteria area



75 - Interior finishes of kitchen area



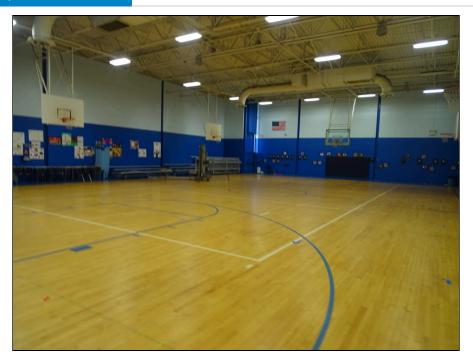
76 - Interior finishes of kitchen area



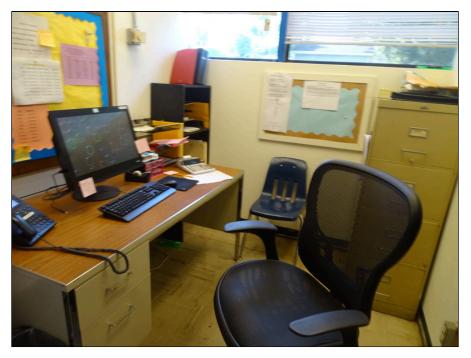
77 - Interior finishes of auditorium area



78 - Interior finishes of classroom area



79 - Interior finishes of gym area



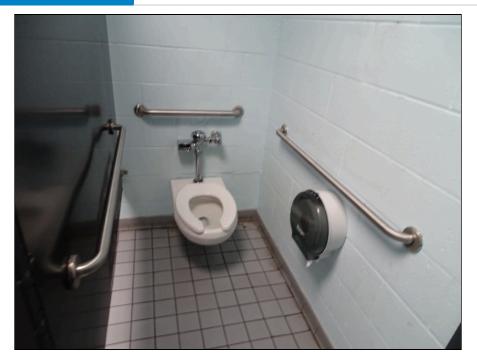
80 - Typical office area interior



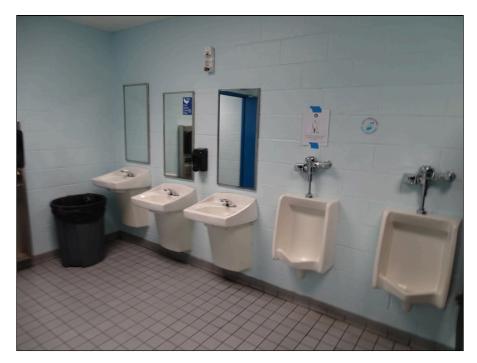
81 - Typical water fountain



82 - Interior finishes of restroom area



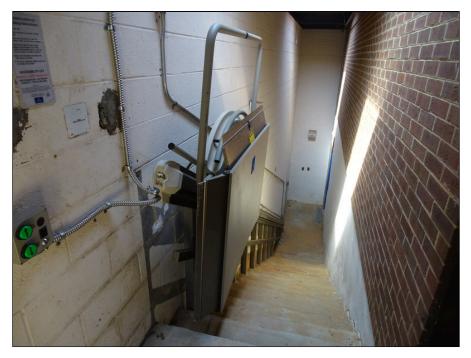
83 - Interior finishes of restroom area



84 - Interior finishes of restroom area



85 - Interior finishes of stair area



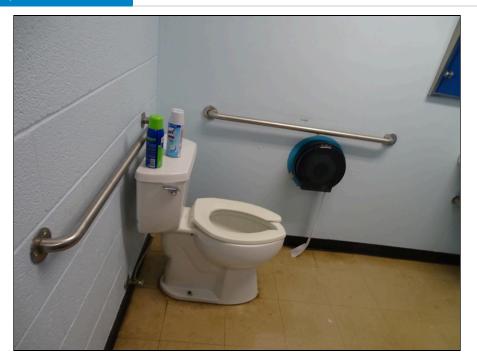
86 - Typical accessible chair lift



87 - Accessible curb cut ramp with truncated domes



88 - Accessible parking spacees



89 - Typical accessible restroom

Appendix VI: RESUMES

Principal Architect – Facilities Department

EDUCATION

Bachelor of Architecture, 1987, Architecture, Virginia Polytechnic Institute and State University, Blacksburg, VA

REGISTRATIONS

Registered Architect: AZ, DC, MD, VA, NC, IL The Leadership in Energy and Environmental Design (LEED) Accredited Professional: 2009

Mr. Doyle serves as a Principal Architect for the Facilities Engineering Group in ECS Chantilly. He has over 25 years of experience in the construction industry, and his expertise includes the Americans with Disabilities Act, Property Condition Surveys, Pre and Post Construction Survey Services, Pavement Assessments, and Third-Party Plan Review. He has worked with numerous government agencies and has significant experience with local government and educational facilities; commercial high-rise buildings; multi-unit, residential, and correctional facilities. Mr. Doyle also has had experience on several high-profile historic projects, including the Jefferson Memorial, the Tivoli Theater, the Tariff Building, The White House, the Court of Appeals in Washington, DC; the Valley Bank Building in Leesburg, Virginia; and the Shenandoah Courthouse at Woodstock, Virginia.

Property Condition Assessments - Mr. Doyle has extensive experience performing property condition assessments from small commercial properties, large high rise buildings, to government-owned properties. Mr. Doyle has performed assessment in general accordance with ASTM E 2018, Standard Guide for Property Condition Assessments: Baseline Property Condition Assessment Process. Mr. Doyle also has experience in performing property condition assessments in accordance with lender and specific client requirements. Mr. Doyle has worked with teams of experts in providing detailed reports and simple reserve analysis for properties.

RELEVANT PROJECT EXPERIENCE

Darien Lake, Darien Center, NY – Mr. Doyle was the Principal Architect for the property assessment of the Darien Lake amusement park. The property included over 200 buildings including buildings within the park, maintenance and administration buildings, hotel, campground buildings, and sewer treatment center. Ballston Park Apartments, Arlington, VA (2014) -

originally developed in 1938, this complex includes 50 two-story apartment buildings, one three-story apartment building, one single-family residence, and a single-story office/clubhouse. A PCA and a Phase I Environmental Site Assessment was conducted and documented.

Hyatt House Lodging, Sterling, VA (2014) - This six-story, 162-room, 98,793-square-foot hotel with surface parking was constructed in 2007 as a Sierra Suites and subsequently converted to a Hyatt House. Recreational facilities include a swimming pool, fitness center, a grill area, and a fire pit. Building systems observed per ASTM E 2018 included site conditions, the structural frame and building envelope; plumbing, mechanical and electrical systems, vertical transportation Systems, life safety and fire protection, and ADA Considerations. A Phase I Environmental Site Assessment was also conducted.

WHMO Facilities Assessment, Washington, DC (2015) -

This is a privately owned, government-leased facility with a sensitive mission. The structure is believed to be a 1920s vintage building designed as a multi-story car dealership. The government has occupied this space continuously since 1963. Mr. Doyle conducted a survey of the complete facility, identified and documented areas of concerns. He also provide a recommendation for remediation for each area of concern, a Rough Order Magnitude (ROM) cost for remediation, and categorized each area of concern as critical, non-critical or aesthetic.

ADDITIONAL PROJECT EXPERIENCE

- City of Charlottesville Portfolio, Charlottesville, VA
- Liberty Park, Herndon, VA
- Oakcrest School, McLean, VA
- Signature Flight Support, Arlington, VA
- The Gap, Washington, DC
- Lanham Crossing, Lanham, MD
- ZIM American Headquarters Building, Sulfolk, VA
- The Portrait Building, Washington, DC
- The Aventine of Alexandria, Alexandria, VA



DONALD GOGLIO

CODE COMPLIANCE PROJECT MANAGER



CERTIFICATIONS

Master Plumber Master Gasfitter Cross Connection Technician Commercial Building Inspector Commercial Plumbing Inspector Commercial Mechanical Inspector Accessibility Inspector/Plan Reviewer Fire Inspector I and II LEED Green Associate CPR/First Aid Training OSHA 30 hr Training

> Code Compliance Construction Administration Special Inspection Services Condition Assessments Forensic Consultation

PROFESSIONAL MEMBERHSHIPS

American Wood Council

USGBC

EDUCATION

Montgomery College, 1991 Silver Spring, MD YEARS OF EXPERIENCE ECS: <1 Other: 38

PROFESSIONAL PROFILE

Mr. Goglio has 38 years of construction, mechanical trade, and management experience. He manages code compliance projects, including reviewing plans, providing technical support, and conducting inspections.

PROJECT EXPERIENCE

Fort Lee AIT Barracks, Ft. Lee, VA – Quality Control Manager – The Fort Lee AIT Barracks project is a soldiers' basic combat training facility for over 1,200 Army personnel. The complex is a cohesive development, providing both housing and affiliated functions for soldiers in the AIT program. In addition to housing, the facility includes an outdoor jogging track, physical training pits, and access drivers and parking areas that meet USACE requirements. The project's five-story brick buildings meet DoD Minimum Antiterrorism Standards for Buildings and obtained LEED® Gold certification from the US Green Building Council. The Fort Lee project is part of the Northeast Region Multiple Award Task Order Contract (MATOC).

Terrapin Row, College Park, MD – Assistant Superintendent – Terrapin Row is a transformative student housing complex located on the University of Maryland's historic South Campus. The mixed-use community features 1,493 beds across 418 apartments as well as a 489-space parking garage. Terrapin Row boasts ample amenities centered around a college lifestyle, including a swimming pool, volleyball court, outdoor kitchens and fire pits, exterior TVs, a fitness center, bike storage, a cyber cafe and game room, and numerous live-learn spaces. The multi-phase project consists of seven buildings and encompasses a pedestrian and bike-friendly Village Green surrounded by over 11,856 square feet of retail space. The Village Green flows into a grand stairway and amphitheater that opens to a pedestrian plaza to welcome pedestrians towards the main academic centers of campus.

The Hartley at the Parks, Washington, DC – Assistant Superintendent

- The Hartley is a 323-unit mixed-use apartment community with a Whole Foods Market as its retail anchor in Northwest DC. This six-story community consists of five stories of wood framing over a one-story concrete podium with 317 apartments and six townhomes. It is a part of The Parks at Walter Reed, a mixed-use master-planned redevelopment of the 66-acre historic Walter Reed Army Medical Center with 2,200 residential units plus office and retail. The Hartley features two interior courtyards: the north courtyard includes pool and amenity space, and the south courtyard includes a Zen Garden. The second-floor amenity space includes a lounge, multi-purpose room, fitness center, and pet spa. The studio, one-, two-, and three-bedroom units feature high-end finishes, including quartz countertops and EnergyStar® appliances.



DONALD GOGLIO

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CERTIFICATIONS

Master Plumber Master Gasfitter Cross Connection Technician Commercial Building Inspector Commercial Plumbing Inspector Commercial Mechanical Inspector Accessibility Inspector/Plan Reviewer Fire Inspector I and II LEED Green Associate CPR/First Aid Training OSHA 30 hr Training

SKILLS

Code Compliance Construction Administration Special Inspection Services Condition Assessments Forensic Consultation

PROFESSIONAL

MEMBERHSHIPS

American Wood Council

USGBC

EDUCATION

Montgomery College, 1991 Silver Spring, MD YEARS OF EXPERIENCE

ECS: <1 Other: 38

PROFESSIONAL PROFILE

Mr. Goglio has 38 years of construction, mechanical trade, and management experience. He manages code compliance projects, including reviewing plans, providing technical support, and conducting inspections.

PROJECT EXPERIENCE

- Fort Lee AIT Barracks, Ft. Lee, VA
- Terrapin Row, College Park, MD
- The Hartley at the Parks, Washington, DC
- River Point, Washington, DC
- Juniper, Columbia, MD
- The Smith, King of Prussia, PA
- Banner Hill, Baltimore, MD
- Jefferson Square, Baltimore, MD
- Metropolitan at Largo Station, Largo, MD
- The Village at Leesburg, Leesburg, VA
- The Elms at Clarksburg Village, Clarksburg, MD
- Hidden Creek, Gaithersburg, MD
- Paramount, Gaithersburg, MD
- Thayer & Spring, Silver Spring, MD





William R. Pratt, PE

Principal Engineer, ECS Mid-Atlantic, LLC Professional-In-Charge

SELECT PROJECT EXPERIENCE – PCA

City of Charlottesville, VA - 51 Property

- Portfolio including schools, libraries, museums, fire and police stations, and court buildings
- Home Properties 800+ Apartment Units, 4-Property Portfolio to Freddie Mac Standard, Hampton and Virginia Beach, VA
- Boulders Office Park 300,000+ SF, 3-Property Portfolio , Richmond, VA
- Darien Lake Theme Park, Darien Center, NY
- Madison Place Office Building, Alexandria, VA
- King of Glory Lutheran Church, Williamsburg, VA
- Comfort Inn, Charlottesville, VA
- The Wisconsin Building, Washington, DC

SELECT PROJECT EXPERIENCE – CODE COMPLIANCE AND SPECIAL INSPECTIONS

- City Center DC, Washington, DC
- DC Courts Judiciary Square, IDIQ Contract, Washington, DC
- Hilton Garden Inn, Washington, DC
- Waterfront Mall, Washington, DC
- 4th Street Reconstruction, Washington, DC
- Sibley Memorial Hospital Addition, Cancer Center, Washington, DC
- Washington Headquarters Services, Arlington, VA
- Walmart #5968-00, Washington, DC
- Progression Place, 7th Street, NW, Washington, DC
- National Gallery of Art, Washington, DC
- City Market @ O, Washington, DC



EDUCATION

Bachelor of Science, 1989, Mechanical Engineering, University of Massachusetts

REGISTRATIONS

Professional Engineer: DC, VA, MD

ICC Commercial Building, Plumbing, and Mechanical Inspector

Mr. Pratt serves as Senior Project Engineer for ECS Mid-Atlantic, LLC. Mr. Pratt is responsible as Professional-In-Charge the of the code compliance group and provides supervision of code compliance inspection programs for the local jurisdictions. Additionally, he oversees execution of project management for materials testing, construction property condition assessments.

PROPERTY CONDITION ASSESSMENTS -Bill has extensive experience in performing property condition assessments for a variety of properties and structures. These assessments include evaluation of site improvements, building components, roofing, pavements, electrical systems, mechanical systems, and HVAC systems. He performs assessment in general accordance with ASTM E 2018 - 08, Standard Guide for Property Condition Assessments: Baseline Property Condition Assessment Process. Bill also has experience in performing property condition assessments that meet with lender and specific client requirements. He works with teams of experts in providing detailed reports and simple reserve analysis for properties.