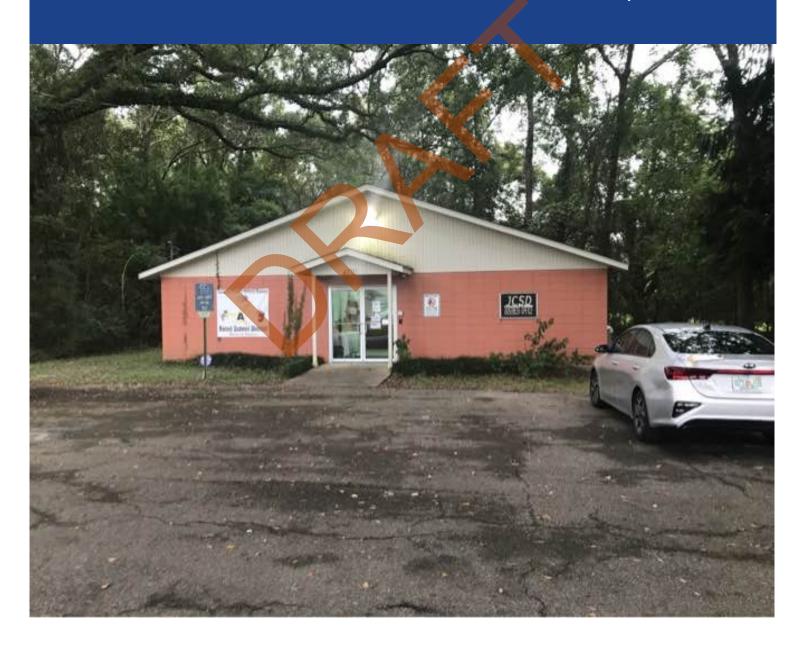


FACILITY CONDITION ASSESSMENT

Business Office | November 2020





Executive Summary

Business Office, located at 4701 Col. Vickrey in Vancleave, Mississippi, oldest building is 25 years old (at time of 2020 assessment). It comprises 1,600 gross square feet.

The findings contained within this report are the result of an assessment of building systems performed by building professionals experienced in disciplines including architecture, mechanical, plumbing and electrical. The total current deficiencies for this site, in 2020 construction cost dollars, are estimated at \$27,597. A ten-year need was developed to provide an understanding of the current need as well as the projected needs in the near future. For Business Office the ten-year need is \$167,462.

For master planning purposes, the total current deficiencies and the first five years of projected life cycle needs were combined to calculate a Facility Condition Index (FCI). A 5-year FCI was calculated by dividing the 5-year need by the total replacement cost. Costs associated with new construction are not included in the FCI calculation. The Business Office facility has a 5-year FCI of 42.45%.

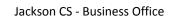
Summary of Findings

The table below summarizes the condition findings at Business Office

Table 1: Facility Condition by Building

Number	Building Name	Current Deficiencies	5-Year Life Cycle Cost	s 6-10 Life Cycle Cost	otal 5 Yr Need Yr 1-5 + Current Defs)	Total 10 Yr Need (Yr 1-10 + Current Defs)	Replacement Cost	5-Year FCI
Exterior Sit	e							
	Exterior Site	\$1,124	\$14,240	\$0	\$15,364	\$15,364	\$0	
Permanent	Building(s)							
01	Business Ofc	\$26,473	\$93,542	\$32,083	\$120,015	\$152,098	\$318,880	37.64%
	Sub Total for Permanent Building(s):	\$26,473	\$93,542	\$32,083	\$120,015	\$152,098	\$318,880	
	Total for Site:	\$27,597	\$107,782	\$32,083	\$135,379	\$167,462	\$318,880	42.45%

Facility Condition Assessment





Approach and Methodology

A facility condition assessment evaluates each building's overall condition. Two components of the facility condition assessment are combined to total the cost for facility need. The two components of the facility condition assessment are current deficiencies and life cycle forecast.

Current Deficiencies: Deficiencies are items in need of repair or replacement as a result of being broken, obsolete, or beyond useful life. The existing deficiencies that currently require correction are identified and assigned a priority. An example of a current deficiency might include a broken lighting fixture or an inoperable roof top air conditioning unit.

Life Cycle Forecast: Life cycle analysis evaluates the ages of a building's systems to forecast system replacement as they reach the end of serviceable life. An example of a life cycle system replacement is a roof with a 20-year life that has been in place for 15 years and may require replacement in five years.

All members of the survey team recorded existing conditions, identified problems and deficiencies, and documented corrective action and quantities. The team took digital photos at each site to better identify significant deficiencies.

Facility Deficiency Priority Levels

Deficiencies were ranked according to five priority levels, with Priority 1 items being the most critical to address:

Priority 1 – **Mission Critical Concerns:** Deficiencies or conditions that may directly affect the site's ability to remain open or deliver the educational curriculum. These deficiencies typically relate to building safety, code compliance, severely damaged or failing building components, and other items that require near-term correction. An example of a Priority 1 deficiency is a fire alarm system replacement.

Priority 2 - Indirect Impact to Educational Mission: Items that may progress to a Priority 1 item if not addressed in the near term. Examples of Priority 2 deficiencies include inadequate roofing that could cause deterioration of integral building systems, and conditions affecting building envelopes, such as roof and window replacements.

Priority 3 - Short-Term Conditions: Deficiencies that are necessary to the site's mission but may not require immediate attention. These items should be considered necessary improvements required to maximize facility efficiency and usefulness. Examples of Priority 3 items include site improvements and plumbing deficiencies.

Priority 4 - Long-Term Requirements: Items or systems that may be considered improvements to the instructional environment. The improvements may be aesthetic or provide greater functionality. Examples include cabinets, finishes, paving, removal of abandoned equipment, and educational accommodations associated with special programs.

Priority 5 - Enhancements: Deficiencies aesthetic in nature or considered enhancements. Typical deficiencies in this priority include repainting, replacing carpet, improved signage, or other improvements to the facility environment.



The following table summarizes this site's current deficiencies by building system and priority.

Table 2: System by Priority (Site & Permanent Buildings)

			Priority				
System	1	2	3	4	5	Total	% of Total
Site	\$0	\$0	\$798	\$0	\$326	\$1,124	4.07 %
Roofing	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Structural	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Exterior	\$0	\$0	\$0	\$250	\$0	\$250	0.91 %
Interior	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Mechanical	\$0	\$0	\$5,760	\$0	\$1,624	\$7,384	26.76 %
Electrical	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Plumbing	\$0	\$0	\$18,839	\$0	\$0	\$18,839	68.26 %
Fire and Life Safety	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Conveyances	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Specialties	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Total:	\$0	\$0	\$25,397	\$250	\$1,951	\$27,597	

The building systems at the site with the most need include:

Plumbing -	\$18,839
Mechanical -	\$7,384
Site -	\$1,124

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The chart below represents the building systems and associated deficiency costs.

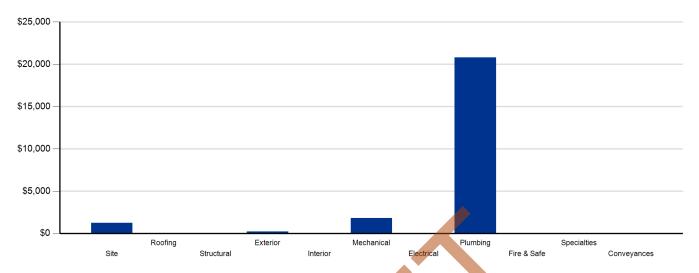


Figure 1: System Deficiencies





Life Cycle Capital Renewal Forecast

During the facility condition assessment, assessors inspected all major building systems. If an assessor identified a need for immediate replacement, a deficiency was created with the item's repair costs. The identified deficiency contributes to the facility's total current repair costs.

However, capital planning scenarios span multiple years, as opposed to being constrained to immediate repairs. Construction projects may begin several years after the initial facility condition assessment. Therefore, in addition to the current year repair costs, it is necessary to forecast the facility's future costs using a ten-year life cycle renewal forecast model.

Life cycle renewal is the projection of future building system costs based upon each individual system's expected serviceable life. Building systems and components age over time, eventually break down, reach the end of their useful lives, and may require replacement. While an item may be in good condition now, it might reach the end of its life before a planned construction project occurs.

The following tables show current deficiencies and the subsequent ten-year life cycle capital renewal projections. The projections outline costs for major building systems in which a component is expected to reach the end of its useful life and require capital funding for replacement.

Table 3a: Capital Renewal Forecast (Yrs 1-5)

		Life Cycl	le Capital Renewal Pr	ojections		
System	Year 1 2021	Year 2 2022	Year 3 2023	Year 4 2024	Year 5 2025	Total 1-5
Site	\$0	\$14,240	\$0	\$0	\$0	\$14,240
Roofing	\$0	\$0	\$0	\$31,461	\$0	\$31,461
Exterior	\$0	\$0	\$0	\$0	\$0	\$0
Interior	\$0	\$0	\$13,556	\$7,903	\$5,892	\$27,351
Mechanical	\$0	\$0	\$0	\$0	\$0	\$0
Electrical	\$0	\$0	\$0	\$1,609	\$26,182	\$27,791
Plumbing	\$0	\$0	\$0	\$6,939	\$0	\$6,939
Fire and Life Safety	\$0	\$0	\$0	\$0	\$0	\$0
Conveyances	\$0	\$0	\$0	\$0	\$0	\$0
Specialties	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$14,240	\$13,556	\$47,912	\$32,074	\$107,782

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Table 3b: Capital Renewal Forecast (Yrs 6-10)

			Life Cycle	Capital Renewal I	Projections			
System	Total 1-5	Year 6 2026	Year 7 2027	Year 8 2028	Year 9 2029	Year 10 2030	Total 6-10	Total 1-10
Site	\$14,240	\$0	\$0	\$0	\$0	\$0	\$0	\$14,240
Roofing	\$31,461	\$0	\$0	\$0	\$0	\$0	\$0	\$31,461
Exterior	\$0	\$7,083	\$3,558	\$0	\$0	\$2,408	\$13,049	\$13,049
Interior	\$27,351	\$0	\$1,744	\$0	\$0	\$0	\$1,744	\$29,095
Mechanical	\$0	\$11,297	\$0	\$0	\$0	\$2,209	\$13,506	\$13,506
Electrical	\$27,791	\$0	\$0	\$3,784	\$0	\$0	\$3,784	\$31,575
Plumbing	\$6,939	\$0	\$0	\$0	\$0	\$0	\$0	\$6,939
Fire and Life Safety	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Conveyances	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Specialties	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$107,782	\$18,380	\$5,302	\$3,784	\$0	\$4,617	\$32,083	\$139,865

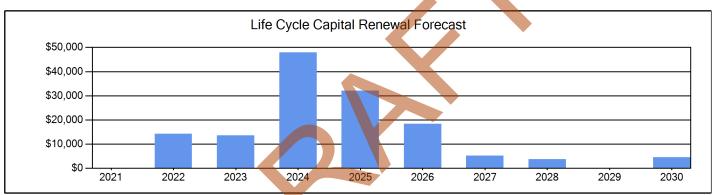


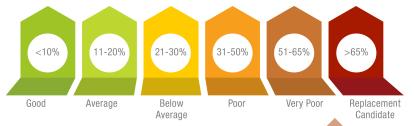
Figure 2: Ten Year Capital Renewal Forecast

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Facility Condition Index (FCI)

The Facility Condition Index (FCI) is used throughout the facility condition assessment industry as a general indicator of a building's health. Since 1991, the facility management industry has used an index called the FCI to benchmark the relative condition of a group of sites. The FCI is derived by dividing the total repair cost, including educational adequacy and site-related repairs, by the total replacement cost. A facility with a higher FCI percentage has more need, or higher priority, than a facility with a lower FCI. It should be noted that costs in the New Construction category are not included in the FCI calculation.



Financial modeling has shown that over a 30-year period, it is more cost effective to replace than repair sites with a FCI of 65 percent or greater. This is due to efficiency gains with facilities that are more modern and the value of the building at the end of the analysis period. It is important to note that the FCI at which a facility should be considered for replacement is typically debated and adjusted based on property owners and facility managers approach to facility management. Of course, FCI is not the only factor used to identify buildings that need renovation, replacement, or even closure. Historical significance, enrollment trends, community sentiment, and the availability of capital are additional factors that are analyzed when making campus facility decisions.

For master planning purposes, the total current deficiencies and the first five years of projected life cycle needs were combined. This provides an understanding of the current needs of a facility as well as the projected needs in the near future. A 5-year FCI was calculated by dividing the 5-year need by the total replacement cost. Costs associated with new construction are not included in the FCI calculation.

The replacement value represents the estimated cost of replacing the current building with another building of like size, based on today's estimated cost of construction in the Jackson, MS area. The estimated replacement cost for this facility is \$318,880. For planning purposes, the total 5-year need at the Business Office is \$135,379 (Life Cycle Years 1-5 plus the FCI deficiency cost). The Business Office facility has a 5-year FCI of 42.45%.

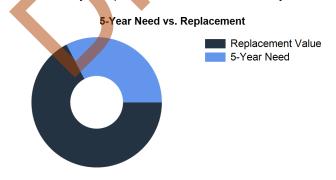


Figure 3: 5-Year FCI



Business Office - Deficiency Summary Site Level Deficiencies

Site

Jito						
Deficiency		Category	Qty UoM	Priority	Repair Cost	ID
ar Accessible Parl	king Spaces Restiriping	ADA Compliance	1 Ea.	3	\$101	4
he Van Accessible	Parking Spaces Do Not Meet ADA Requirements	ADA Compliance	1 Ea.	3	\$697	5
Note:	Sign not legible					
Location	n: Main entry					
aving Restriping		Deferred Maintenance	11 CAR	5	\$326	3
Location	n: Parking spaces site wide					
		Sub Total for System	3 items		\$1,124	
		Sub Total for School and Site Level	3 items		\$1,124	
Buildina: 0	1 - Business Ofc					
Exterior						
Deficiency		Category	Qty UoM	Priority	Repair Cost	ID
exterior Painting (B	lda SE)	Capital Renewal	160 SF	4	\$250	86
Note:	Exterior paint id beyond its useful life, worn and fa		100 01		Ψ200	00
Note.	Exterior paint in beyond its useral line, worth and in	Sub Total for System	1 items		\$250	
/lechanical					*	
Deficiency		Category	Qty UoM	Priority	Repair Cost	ID
IVAC Study Recon	amandad	Functional Deficiency	1 LS	3	\$5,760	1
,	Owner mentioned when new split system was inst		_			
Note:	correct line-set installed. Repair/replace as necess	sary (20 LF)	ies coula potent	ially be inco	oriect sizes. Ven	шу
	n: Building wide					
ouct Cleaning		Deferred Maintenance	1,600 SF	5	\$1,624	2
Note:	Suspect materials, clean ducts	a.iia.iia				
	n: Building wide					
Location	1. Building wide	Sub Total for System	2 items		\$7,384	
Plumbing		1 1 1 1			, ,	
Deficiency		Category	Qty UoM	Priority	Repair Cost	ID
Restroom Is Not AD	OA Compliant	ADA Compliance	200 SF	3	\$18,839	6
Note:	Restroom is not ADA compliant	·				
		Sub Total for System	1 items		\$18,839	
		Sub Total for Building 01 - Business Ofc	4 items		\$26,473	
		oub rotal for building of - business ofc	7 1101110		Ψ=0,-1.0	

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\$139,866

20 items



Business Office - Life Cycle Summary Yrs 1-10

Site Level Life Cycle Items

Site

Uniformat Description	LC Type Description		Qty	UoM	Repair Cost	Remaining Life
Parking Lot Pavement	Asphalt		11	CAR	\$14,240	2
		Sub Total for System	1	items	\$14,240	
		Sub Total for Building -	1	items	\$14,240	
Building: 01 - Business (Ofc					
Roofing						
Uniformat Description	LC Type Description		Qty	UoM	Repair Cost	Remaining Life
Steep Slope Roofing	Composition Shingle		1,920	SF	\$31,461	4
		Sub Total for System	1	items	\$31,461	
Exterior						
Uniformat Description	LC Type Description		Qty	UoM	Repair Cost	Remaining Life
Exterior Entrance Doors	Storefront Doors - Glass/Aluminum		2	Door	\$7,083	6
Exterior Wall Veneer	Exterior Painting - Bldg SF basis		160	SF	\$250	7
Note	: Wood siding					
Exterior Entrance Doors	Steel - Insulated and Painted		1	Door	\$3,308	7
Exterior Wall Veneer	Wood / Composite Siding - Bldg SF bas	sis	160	SF	\$2,408	10
		Sub Total for System	4	items	\$13,049	
Interior						
Uniformat Description	LC Type Description		Qtv	UoM	Repair Cost	Remaining Life
Carpeting	Carpet		1,200		\$13,556	3
Wall Painting and Coating	Painting/Staining (Bldg SF)		320		\$1,279	4
Interior Door Supplementary Components	Door Hardware			Door	\$6,624	4
Suspended Plaster and	Painted ceilings		1,600		\$2,973	5
·	: Gyp board painted ceiling		,		* /-	
Resilient Flooring	Vinyl Composition Tile Flooring		400	SF	\$2,919	5
Interior Swinging Doors	Wooden Door			Door	\$1,744	7
3 3 111		Sub Total for System		items	\$29,096	
Mechanical						
Uniformat Description	LC Type Description		Qty	UoM	Repair Cost	Remaining Life
HVAC Air Distribution	Ductwork (Bldg.SF)		1,600	SF	\$11,297	6
Heating System Supplementary	Controls - Electronic (Bldg.SF)		1,600	SF	\$2,209	10
Components			_		*	
Electrical		Sub Total for System	2	items	\$13,506	
Uniformat Description	LC Type Description		Otv	UoM	Repair Cost	Domoining Life
Lighting Fixtures	Building Mounted Fixtures (Ea.)			Ea.	\$1,609	Remaining Life
Lighting Fixtures	Light Fixtures (Bldg SF)		1,600		\$26,182	5
Power Distribution	Panelboard - 120/208 125A		,	Ea.	\$1,302	8
Power Distribution	Panelboard - 120/208 100A			Ea.	\$2,482	8
rower Distribution			'			0
	1 dileibedid 126/200 100/t	Sub Total for System	4	itame	£31 E7E	
Plumbina	120/200 100/X	Sub Total for System	4	items	\$31,575	
•		Sub Total for System				Remaining Life
Uniformat Description	LC Type Description	Sub Total for System	Qty	UoM	Repair Cost	Remaining Life
Uniformat Description Plumbing Fixtures	LC Type Description Restroom Lavatory	Sub Total for System	Qty 1	UoM Ea.	Repair Cost \$2,424	4
Plumbing Uniformat Description Plumbing Fixtures Plumbing Fixtures	LC Type Description	Sub Total for System Sub Total for System	Qty 1 1	UoM	Repair Cost	

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Total for: Business Office



Supporting Photos



Main Entrance North Elevation



ADA signage and parking space Restripe



Ducktwork to the air handler



Boys locker room, replace Restroom partitions

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