AT THIS TIME A PATH PRESENTATION ON ENERGY EFFICIENCY AND BUILDING OPTIMIZATION WAS PRESENTED BY WILLIAM FRANKLIN

ORDER: AUTHORIZE THE PATH INVESTMENT GRADE AUDIT

Motion was made by Brent Larson, duly seconded by David Rikard, to authorize the PATH investment grade audit.

The vote on the motion was as follows:

Supervisor Brent Larson, voted yes Supervisor Larry Gillespie, voted yes Supervisor David Rikard, voted yes Supervisor Chad McLarty, voted yes Supervisor Mike Roberts, voted yes

After the vote, President Roberts, declared the motion carried, this the 6th day of February, 2023.

Mike Roberts, President Board of Supervisors

Sherry Wall, Chancery Clerk



Energy Efficiency and Building

Preliminary Analysis Summary

February 2023

Preliminary Audit •

- PATH & Lafayette County determine general budgets, scopes & goals of the project
- selects best responder Leadership votes to advertise Request for Qualifications (RFQ) for Energy Services and

2. Investment Grade Audit (IGA)

- Detailed audit of County infrastructure: 4-6 months
- Lighting inventory & HVAC documentation
- Envelope evaluation (rooting, windows, doors, etc.)
- Water usage analysis
- $\sqrt{\text{lominal fee}} = $75,000$

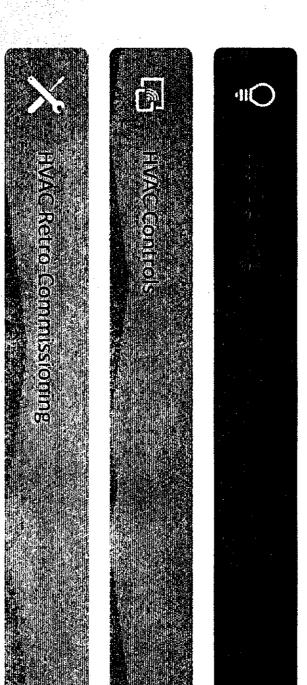
3. Final Proposal

- Final project scope presented with line-item ECM scopes, fixed-firm price, guaranteed
- Financial models developed capital costs coupled with guaranteed savings and other funding sources to determine overall financial package

4. Project Authorization/Start

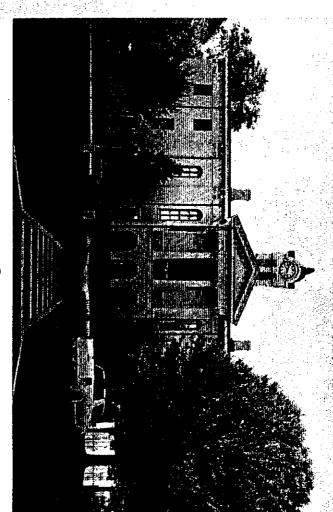
								100 miles
29	101	\$ 0.34	\$ 0.34	72 \$	\$ 2,772	\$ 2,772	8,101	Drug Court
299	23	\$ 10.20	\$ 11.24	\$	\$ 12,238	\$ 13,494	1,200	Barn/Garage
	ន			U.S	\$ 17,373	\$ 17,373		Mental Health Department (MHD)
	ន			<u>₹</u>	\$ 6,146	\$ 6,146		Mississippi Highway Patrol (MHP)
*	53	\$ 1.19	132	\$	\$ 4,287	\$ 4,760	3,500	County Justice
24	53	\$ 0.56	0.60	\$	\$ 5,274	\$ 5,707	9,442	Welfare Offices
39	52	\$ 1.77	1.77	₩ •>	\$ 2,829	\$ 2,829	1,600	Law Enforcement Training Facility
μ	56	\$ 0.10	0.10	\$	\$ 1,232	\$ 1,292	. 12,540	Abbeville Community Center Storage
15	8	\$ 0.65	0.65	10 15	\$ 2,442	\$ 2,442	3,780	Abbeville Community Center
7	ඩ	\$ 0.30	0.30	5	\$ 4,866	\$ 4,866	16,024	Haven House
119	56	\$ 3.00	3.00	\$	\$ 31,662	\$ 31,662	10,560	Avena
28	n	\$ 0.54	0.67	v.	\$ 19,709	\$ 20,745	30,832	Library
82	£	\$ 1.42	1.51	\$	\$ 13,610	\$ 14,525	9,613	LCFD - Central Station
00	ង	\$ 0.29	0.30	\$	\$ 3,733	\$ 3,947	13,000	Office of District Attorney
11	26	\$ 2.03	2.82	144	\$ 124,808	\$ 173,272	61,536	
25	53	\$ 102	1.02	٠ <u>۶</u>	\$ 10,815	\$ 10,815	10,560	Child Protectica Services
49	101	\$ 1.96	196	- C5	\$ 27,475	\$ 27,475	14,000	Justice Court
42	53	\$ 1.11	111	8	\$ 11,844	\$ 11,844	10,640	Department of Human Services
361	101	\$ 2.73	2.79	5	\$ 98,147	\$ 100,377	36,000	Chencery Courthouse
72	101	\$ 2.62	2.64	44	\$ 48,002	48,416	18,326	Conflored Conflo
ᄕ	2	\$ 0.59	0.59	5	\$ 2,050	\$ 2,050	3,500	LCFD Station 17
14	2	\$ 0.77	0.77	5	\$ 1,157	\$ 1,157	1,500	LOTO Station 16
45	2	\$ 2.04	2.04	\$	\$ 2,084	\$ 2,084	1,024	LOFD Station 15
ដ	2	\$ 0.65	0.65	2 \$	\$ 1,202	\$ 1,202	1,856	LCPD Station 12
86	2	\$ 1.37	137	\$	\$ 5,739	\$ 5,739	4,200	LCFD Station 9
80	\$	\$ 0.51	0.51	\$	\$ 1,226	\$ 1,226	2,400	LCFD Statton 6
5	2	\$ 0.32	0.32	7 \$	\$ 767	\$ 767	2,400	LCFD Station 5
18	2	\$ 0.90	0.90	\$	\$ 1,388	\$ 1,388	1536	(CFD Station 4
21	2	\$ 1.05	1.05	\$	\$ 2,263	\$ 2,263	2,160	LCFD Station 3
25	2	\$ 0.85	0.85	*	\$ 2,963	\$ 2,963	3,505	LCFD Station 2
kBtu/sqft	kBtu/sqft	S/suft	\$/sqft		4	Ц		を 100 mm 100 m
Calculated Site	Median EUI	S/sqft	(Lot nally)	a	Total Energy Cast	Total Utility Cost	SA P	
2	2	3 1.55	2,14	÷	\$ 575,808	\$ 631,860	285,485	TOTALS
				1	Summy			

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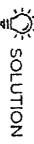


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With the oldest continuously-used courthouse in the state (Tate County) experiencing envelope issues and needing major HVAC repairs/replacement, the county's Board of Supervisors & Administrator needed a unique way for the county to tackle the aforementioned issues at the courthouse. The county's leadership also desired a partner with expertise in not only government infrastructure but also with public finance packaging.



PATH delivered a project that included comprehensive upgrades to the county's lighting infrastructure as a foundation for energy savings. The energy efficient measures generated substantial savings for Tate County and created the opportunity to redesign/replace the entire HVAC system at the courthouse and eliminate fidure courthouse water intrusion issues (new gutter system and envelope repairs). Additionally, PATH facilitated the repainting of the courthouse exterior to improve the overall aesthenics of this historic building that had experienced accelerated wear & tear.



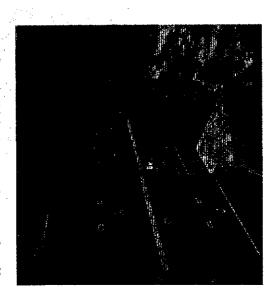
- 14 buildings (including county jail & courthouse)
- ~132,000 sq/ft of interior building space

List of Improvements

- Comprehensive interior/exterior LED lighting upgrade
- HVAC replacement/repairs (courthouse)
- Flat roof and gutter replacement
- Envelope upgrades & waterproofing (courthouse)



- Tate County pre-project annual energy budget: \$193,579
- Annual post-project energy savings: \$40,990
- Annual post-project operational savings: \$7,437
- Additional CapEx project (Courthouse HVAC system replacement & envelope upgrades) achieved within annual budget!



"Their (PATH) attention to detail and dedicated man hours resulted in a project that will save our county thousands of dollars annually on utilities. They were also able to uncover deferred maintenance needs to the historic Tate County Courthouse that were not included in the county's budget and there was no clear plan as to how these needed repairs would be funded."

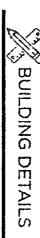
Trey Lamar County Board Attorney Tate County, MS

PROBLEM

Faced with the prospect of entering the summer without a fully-functional HVAC system in their courthouse, Weakley County, TN needed solutions that could be implemented quickly and effectively while limiting the financial burden on the County's budget. Recurring problems (water leaks) with the existing system mandated a complete re-design of the Courthouse HVAC system-further complicating things from both a timing and cost perspective



PATH was able to design four different options for a new HVAC system which allowed County stakeholders the opportunity to choose the system that worked best for them. At the same time, PATH designed a county-wide energy project that included LED lighting, HVAC controls, HVAC retrocommissioning, and water-conservation measures. This energy project produced savings that would offset some of the costs of the Courthouse HVAC project. It should be noted that PATH was able to fully develop this project in just under 3 months from the first call to project approval.



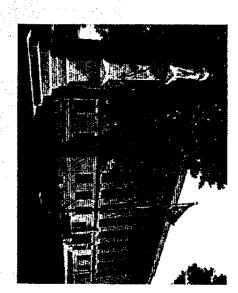
- 6 buildings (including county jail & courthouse)
- ~103,000 sq/ft of interior building space

List of Improvements

- Comprehensive interior/exterior LED lighting upgrade
- HVAC replacement (courthouse)
- HVAC Retrocommission and Controls (all buildings)
- LED Lighting (all buildings)
- Water Conservation Measures (all buildings



- Weakley County pre-project annual energy budget: \$192,250
- Animal post-project energy savings: \$42,340
- Annual post-project operational savings: \$19,427



"PATH is far and away the most qualified and professional group I have had the fortune with which to work. In an environment where taxpayer money is involved, it is critically important to utilize time and money in the most efficient way possible. You will find no better partner to help accomplish this goal than PATH."

Jake Bynum County Mayor Weakley County, TN

- Professional Development Agreement (PDA) approved and signed
- PATH performs Investment Grade Audit and Design (4-6 months)
- Final proposal presented and County Board of Supervisors votes to approve project

. Preliminary Audit

- PATH & Lafayette County determine general budgets, scopes & goals of the project
- Leadership votes to advertise Request for Qualifications (RFQ) for Energy Services and selects best responder

B. Investment Grade Audit (IGA)

- Detailed audit of County infrastructure: 4-6 months
- Lighting inventory & HVAC documentation
- Envelope evaluation (roofing, windows, doors, etc.)
- Water usage analysis
- Nominal fee = \$75,000

C. Final Proposal

- Final project scope presented with line-item ECM scopes, fixed-firm price, guaranteed savings.
- Financial models developed capital costs coupled with guaranteed savings and other funding sources to determine overall financial package

D. Project Authorization/Start

Final Approval