



Joint Board of Supervisors/ School Board CIP Meeting

May 27th, 2021





FCPS Infrastructure Replacement Program

Facilities Management

Infrastructure Replacement Funding Sources

Major maintenance funds are used to supplement infrastructure replacement when needed.

Year	2016	2017	2018	2019	2020	2021
ADA Facilities	\$1.25M	\$1.25M	\$1.25M	\$1.25M	\$1.25M	\$1.25M
Roofing	\$3.63M	\$3.63M	\$3.63M	\$6.13M	\$3.63M	\$3.63M
IT Infrastructure	\$2.00M	\$2.00M	\$2.00M	\$2.00M	\$2.00M	\$2.00M
Asphalt Capital	\$0.98M	\$0.75M	\$0.75M	\$0.75M	\$0.75M	\$0.75M
HVAC Capital	\$3.57M	\$3.83M	\$3.63M	\$3.63M	\$3.63M	\$3.63M
Athletic Capital	\$1.25M	\$1.25M	\$1.25M	\$1.25M	\$1.25M	\$1.25M
Safety and Security	\$0.60M	\$0.60M	\$0.60M	\$0.60M	\$0.60M	\$0.60M
Total	\$13.27M	\$13.41M	\$13.10M	\$15.60M	\$13.10M	\$13.10M
Major Maintenance	\$10.00M	\$10.00M	\$10.00M	\$10.00M	\$10.00M	\$10.00M
Grand Total	\$23.27M	\$23.41M	\$23.10M	\$25.60M	\$23.10M	\$23.10M

Infrastructure Replacement Projects

FCPS has planned or completed 212 projects using infrastructure renewal funding in FY2020 and FY2021.

FY2020

- **112 projects** using Infrastructure Replacement Funds. Including:
 - 8 ADA accessibility projects
 - 6 Roof replacements
 - 48 IT infrastructure projects
 - 11 Asphalt replacement projects
 - 2 Athletic infrastructure replacements
 - 4 HVAC system replacements
 - 33 Safety and Security projects

FY2021

- **100 projects** using Infrastructure Replacement Funds. Including:
 - 7 ADA accessibility projects
 - 8 Roof replacements
 - 31 IT infrastructure projects
 - 3 Asphalt replacement projects
 - 4 Athletic infrastructure replacements
 - 7 HVAC system replacements
 - 40 Safety and Security projects

Asset Inventory and Life Cycle Information

The average age of capital assets is 17 years with 33% past their useful life cycle.

Asset Category	Total Assets	Past Useful Life	% Past Useful Life	Life Cycle (Years)	Avg. Asset Age (Years)	Total Replacement Cost
ADA Accessibility	27	10	37%	25	22	\$569,249
Asphalt/ Pavement	1,300	436	34%	22	17	\$52,730,440
Athletic Infrastructure	474	108	23%	24	16	\$68,609,037
Energy Management	212	68	32%	17	14	\$168,559,594
Fire Sprinkler Systems	3,453	1,164	34%	25	20	\$16,729,749
HVAC Infrastructure	25,071	8,285	33%	22	17	\$386,795,494
Mechanical/ Electrical	19,790	6,337	32%	21	17	\$283,139,884
Playgrounds	248	131	53%	15	16	\$33,965,075
Plumbing Systems	2,115	591	28%	13	13	\$28,253,910
Structural Systems	708	343	48%	19	19	\$42,208,475
Total	53,398	17,473	33%	21	17	\$1,080, 750, 065

Current Replacement Value

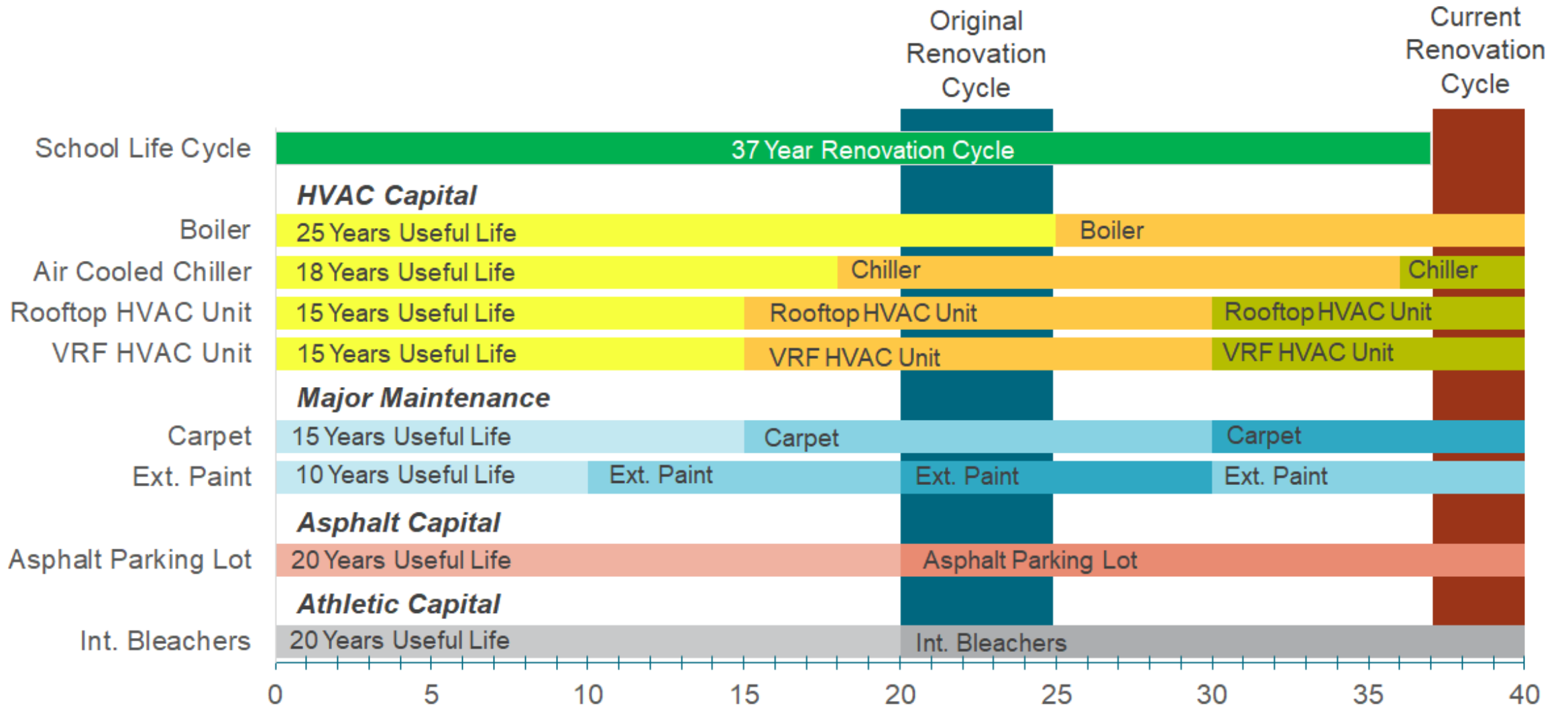
“Maintenance and repair should be in the range of 2 to 4 percent of the Current Replacement Value (CRV) of the facilities.” (NRC, 1990)

- The current replacement value for FCPS is **\$5.6 billion**.*
- Facilities’ operating budget of **\$42.4 million** represents about **.76 percent** of the total CRV.
- FCPS’ infrastructure replacement budget is **\$23.1 million**, or **.42 percent** CRV.**
- The combined the equivalent maintenance and repair for FCPS just under **1.2 percent** for the CRV.

* Physical building assets only. Does not include contents (furniture, dry erase boards, book shelves, etc.).

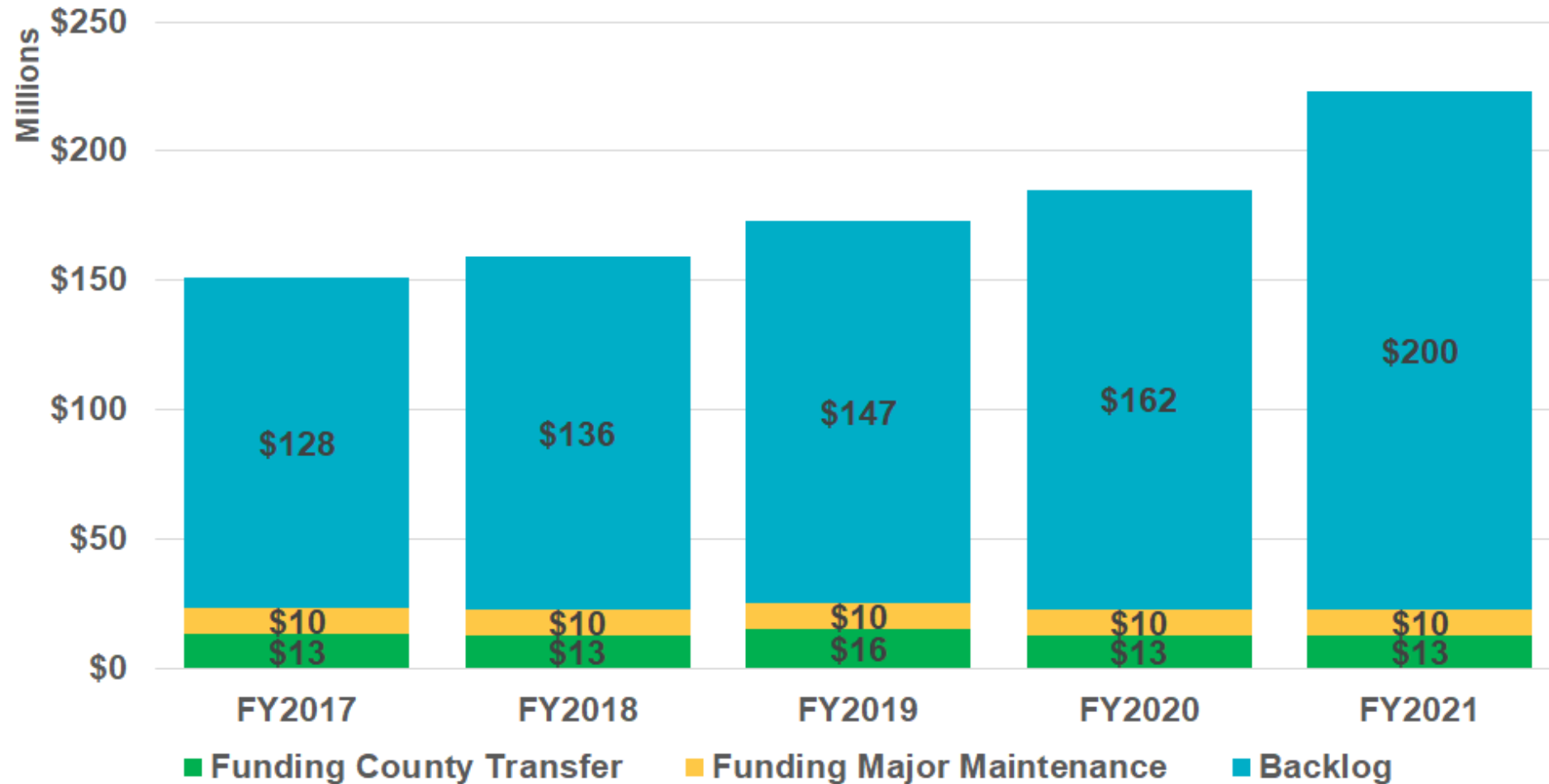
** Includes \$13.1 million Infrastructure Replacement and \$10 million Major Maintenance. Does not include major renovations or new school construction projects.

Life Cycle Impact



Infrastructure Replacement Backlog

An average of 10.5% increase in infrastructure replacement for the previous five years.



Infrastructure Replacement Forecast

A projected increase of 14% per year in capital assets for the next five years.

Asset Category	Current Backlog	FY2022	FY2023	FY2024	FY2025	FY2026	Total
HVAC Capital Requirements	\$118.4M	\$19.4M	\$14.2M	\$9.1M	\$21.7M	\$10.8M	\$193.6M
Athletic Capital Requirements	\$5.1M	\$1.7M	\$1.1M	\$2.1M	\$1.5M	\$3.4M	\$14.9M
Asphalt Capital Requirements	\$9.4M	\$1.1M	\$881.3K	\$3.0M	\$1.5M	\$295.8K	\$16.2M
Major Maintenance Requirements	\$67.2M	\$6.8M	\$5.9M	\$9.4M	\$11.0M	\$13.6M	\$113.9M
Total	\$200.1M	\$29.1M	\$22.0M	\$23.4M	\$35.7M	\$28.1M	\$338.6M

Elementary and Secondary School Emergency Relief (ESSER)

- FCPS will receive **\$84 million** in ESSER II funds and **\$188.7 million** in ESSER III funds for return to school and other Covid-related expenses.
- ESSER II funds will be used in three primary areas:
 - Enhanced upcoming summer school;
 - Facilities infrastructure enhancements; and
 - Technology leasing costs and TSSpec positions.
- **\$33 million** has been identified for facilities infrastructure for HVAC and air quality improvements.
- ESSER III funds have not been allocated. FCPS is engaging the community to determine how these funds should be allocated.

<https://oese.ed.gov/offices/education-stabilization-fund/elementary-secondary-school-emergency-relief-fund/>



FCPS Capital Projects Funding Sources

Capital Improvements and Planning

School Bond

Bi-Annual Bond Referendum

- Bonds used for school improvements
 - acquiring, building, expanding and renovating properties
 - new sites, new buildings, additions, renovations, improvements to existing buildings, furnishings and equipment
- Administered in accordance with approved Capital Improvement Program
- Current \$180 Million annual expenditure cap

Renovation Queue

- Recommended capital investment protection is a 20-25 year renovation cycle
- Current expenditure cap results in a 37 year renovation cycle
 - Equipment failures
 - Energy inefficiencies
 - Safety
 - Increased costs

School Bond Cont'd

FCPS District

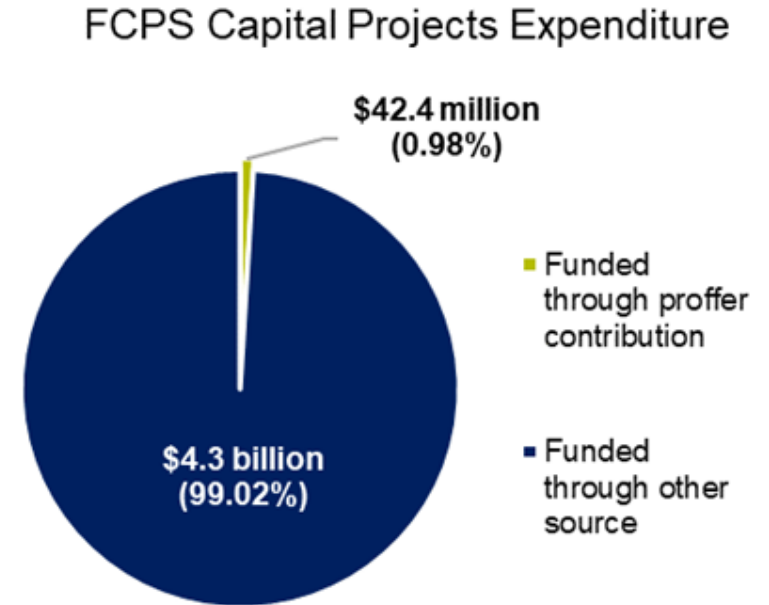
- 200+ Schools and Centers
 - 142 Elementary
 - 26 Middle
 - 27 High
 - Non-traditional learning centers
- 28+ Million Square Feet
- \$ 6 Billion Asset Value

Fiscal Needs

- Increase to current annual expenditure cap
 - Assessing true need
 - New initiatives
- Renovation Queue update

School Proffers

- Proffers are voluntary conditions
- Typically, monetary contributions
- Used for capital improvements that enhance school capacity
- Since FY 2002:
 - Proffers received is \$42.4 million
 - Capital Projects expenditure is \$4.3 billion
 - 0.98% of the Capital Projects expenditure are accounted by proffers
- FCPS is in the process of updating the student yield ratios and proffer formula



Note: The proffer contribution and expenditure have been rounded.



QUESTIONS

Engage • Inspire • Thrive



Thank You

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