# EDUCATION CENTER REUSE Schematic Design

David M. Brown Planetarium
A 1426 North Quincy Street

SCHOOL BOARD ACTION ITEM FEBRUARY 21, 2019

**STUDIOTWENTYSEVENARCHITECTURE** 



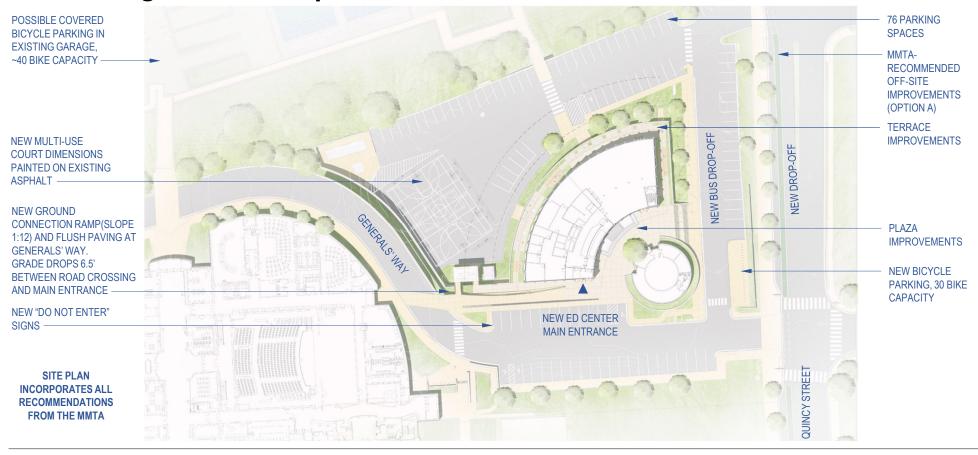
#### **Proposed Schematic Design**

- Staff presented the proposed schematic design as an information item at the February 7, 2019 School Board meeting.
- The content in Exhibits A through F to this presentation is consistent with what was shown in the information item with these exceptions:
  - Exhibit E a new funding source is proposed for costs associated with the temporary transportation facility. Major construction bond funding is subsequently reduced and total funding available remains at \$37.0 million.
  - Exhibit F the A/E estimate for enhanced site improvements alternate was mistakenly shown as \$0.62 million in the information presentation. The correct estimate of \$0.83 million is now shown.



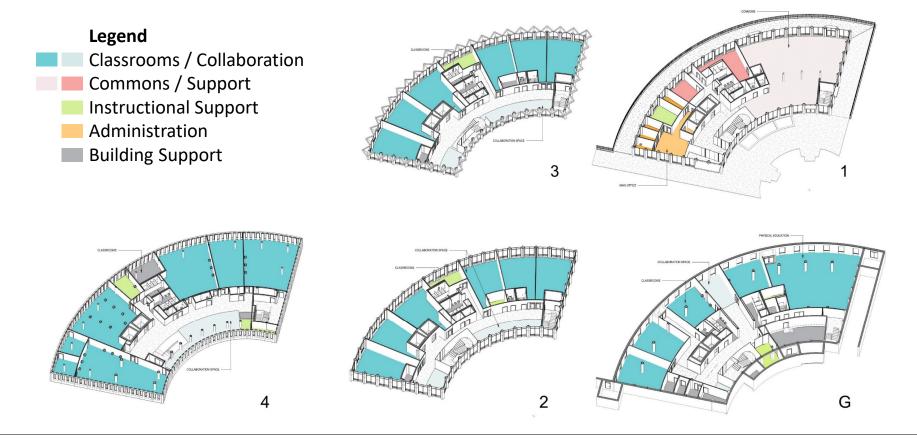
#### Exhibit A

### Site Design - Base Scope





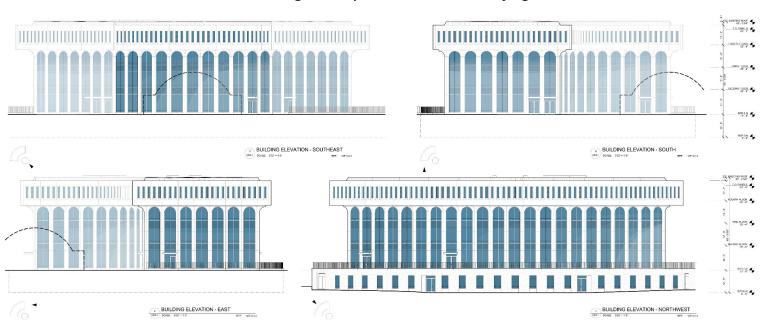
#### **Floor Plans**

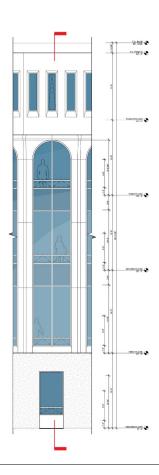


#### **Elevations**

 Proposed approach to window replacement balances respecting the historic character, improving energy performance, and required upgrades to support an educational environment (including operable windows).

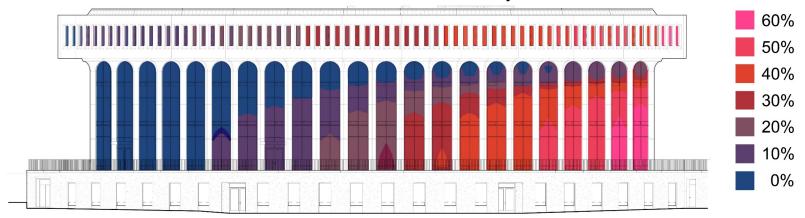
Ground Level windows enlarged to provide better daylight and views.





#### **Proposed Glass Treatment - Frit Pattern**

- Frit is a pattern applied to the glass having several benefits:
  - Ability to control glare and solar heat gain;
  - Only visible up close, from exterior or interior;
  - Preserves views from within the classrooms to the outdoors; and
  - Provides a learning opportunity for students.
  - Helps avoid overuse of shades which would have greater visual perception and impact to views;
- The frit density varies in response to solar exposure at each facade: each color in the diagram below represents a different frit density. This diagram is not an illustration of the actual visual condition; it is a quantitative documentation of the variations of the frit density.

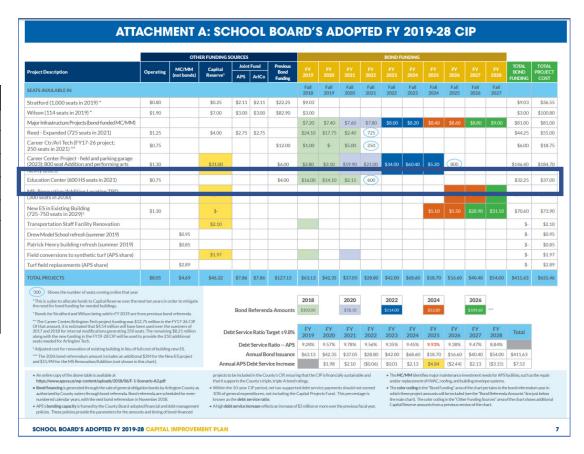


#### **Project Funding**

Project Funding (Millions) <sup>1</sup>					
Major Construction Bonds	\$	36.05			
Other (Operating) <sup>2</sup>	\$	0.75			
Other (MCMM) <sup>3</sup>	\$	0.20			
Total	\$	37.00			

#### Notes:

- 1. FY 2019-2028 CIP, Adopted by the School Board on June 21, 2018. Includes APS portion of Jointly Funded Items.
- 2. Furniture and equipment that cannot be bond funded.
- 3. Costs associated with temporary transportation facility will occur from Minor Construction / Major Maintenance account.



#### **Total Project Cost Estimate and Alternates**

Base Scope - Estimated Cost (Millions)								
		A/E	CMR					
Construction Costs	\$	28.13	\$	27.59				
Owner (Soft) Costs <sup>1</sup>	\$	8.80	\$	8.80				
Total	\$	36.93	\$	36.39				
Note:								

<sup>1.</sup> Owner costs include design, project management, and other professional services fees, utility/permitting fees, furniture, equipment, and project contingencies.

## Alternate recommended to **continue to pursue** in the design development phase.

Alternates - Estimated Cost (Millions)					
	A/E		CMR		
Replace 4th Floor Windows	\$	0.31	\$	0.37	

## Alternates recommended to **no longer pursue** in the design development phase.

Alternates - Estimated Cost (Millions)					
	A/E		CMR		
Enhanced Site Improvements	\$	0.83	\$	0.62	
Bridge Connection between Buildings	\$1.6	64 to \$4.77	\$2.	96 to \$5.66	
Canopy Connection between Buildings	\$	1.35	\$	1.08	

#### **Abbreviations:**

A/E – Architecture/Engineering Team
CMR – Construction Manager at-Risk



#### **School Board Motion**

The Arlington School Board's adopted FY 2019-2028 Capital Improvement Plan (CIP) addressed, in part, the continued increase in enrollment throughout Arlington County by including a project to renovate the Education Center building at 1426 N. Quincy St. to create 500 to 600 additional high school seats. There have been five (5) meetings with the Building Level Planning Committee (BLPC), Public Facilities Review Committee (PFRC), members of adjacent civic associations, and other project stakeholders. The School Board previously approved the project's Educational Specifications on December 20, 2018. The proposed schematic design was presented to the School Board by APS staff on February 7, 2019.

Having carefully reviewed the extensive input from the BLPC, PFRC, civic association leaders and other stakeholders, and the Superintendent's recommendation, I move that the School Board approve the schematic design as generally described in Exhibits A through F in the presentation made at the February 21, 2019 School Board meeting.

#### **School Board Motion, continued**

By approving Exhibits A through F the School Board approves the following aspects of the schematic design:

- Reaffirm basic project criteria to create 500 to 600 new high school seats, to be completed in time for start of school September 2021;
- Schematic site plan showing general location of features, with the understanding that further refinement of the site plan, including additional exploration of proposed off-site improvements, is expected during the Use Permit review/approval process;
- General layout of program spaces within the building;
- General approach to existing window replacement; and
- Maximum total project funding of \$37 million, with strong direction to find opportunities to reduce costs. It should be noted that the FY 2019-2028 CIP funding for the project included \$36.05 million funded by bonds, all of which has received voter approval.



#### **School Board Motion, continued**

With this approval, the School Board also provides the following direction to staff:

- Proceed to the design development phase, including preparation of the Use Permit application;
- Begin discussions with Arlington County Government (ACG) staff on identifying APS/ACG jointly funded items;
- Continue its investigation of replacement of 4<sup>th</sup> floor windows, as described on Exhibit F; and
- Pursue various cost savings measures using every effort to complete the project for less than the maximum available funding.



### **Views**







