### Ann Arbor Public Schools 2019 Bond Proposal November 5, 2019



### **Presentation Overview**

- AAPS Facilities Summary and History
- Impact of Buildings on Student Performance
- Bond Development
  - 2 Year Timeline
  - Capacity and Growth
  - Facilities Condition Assessment
  - AAPS 20-Year Capital Needs
- Financial Impact to the Community
- 2019 Bond: Renewal and Re-Envision Goals
- 2019 Bond: Years 1-6
- Case Studies and Current AAPS Building Conditions
- Ballot Language and Voter Information



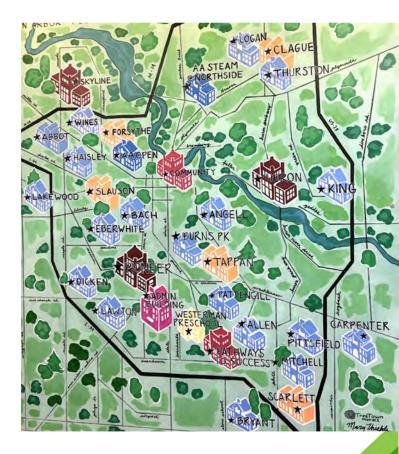
### **Ann Arbor Public Schools - AAPS**

### **AAPS** serves

- The City of Ann Arbor
- Parts of eight surrounding townships:
  - Ann Arbor, Lodi, Northfield, Pittsfield, Salem, Scio, Superior and Webster townships
- Covering 125 square miles

### AAPS owns and maintains

- √ 35 buildings including 32 schools
- √ 3.4 million square feet
- ✓ 723 acres





### **AAPS Building History**

- 5 AAPS school buildings are approaching their 100<sup>th</sup> birthday
  - Angell Elementary, Ann Arbor Open at Mack (K-8), Bach Elementary, Burns Park Elementary, and Community High School
- A2 STEAM and Slauson MS built during the 1930's
- Majority of AAPS schools built during postwar years 1950's 1970's
- Skyline High School built 2008

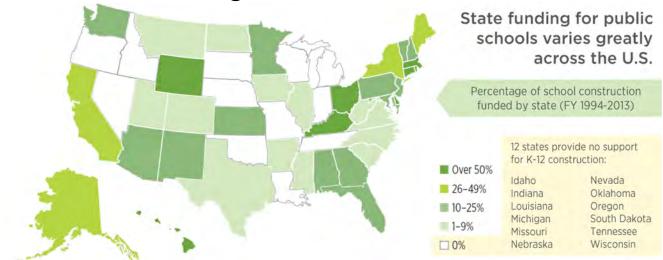




### **Key 2019 Bond Information**

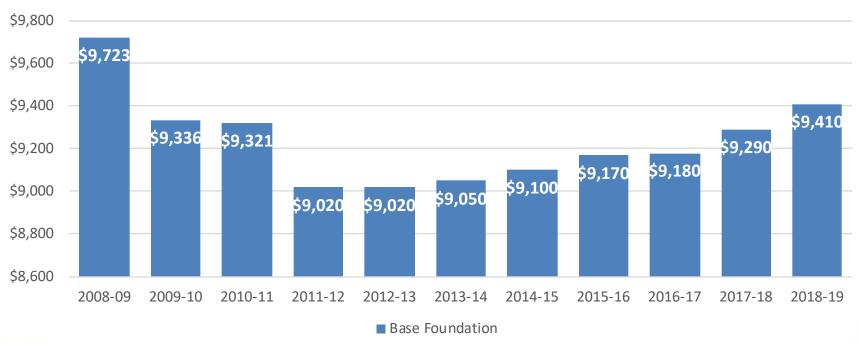
Due to the state's school funding model, **districts do not** receive dedicated state funds for large capital improvement projects.

Michigan is one of only 12 states that <u>does not</u> provide state funding for school infrastructure.





## Per Pupil Foundation Allowance 10 Years Later is \$313 Less

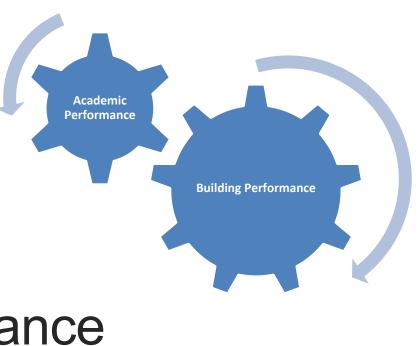




# Linking Academic Performance

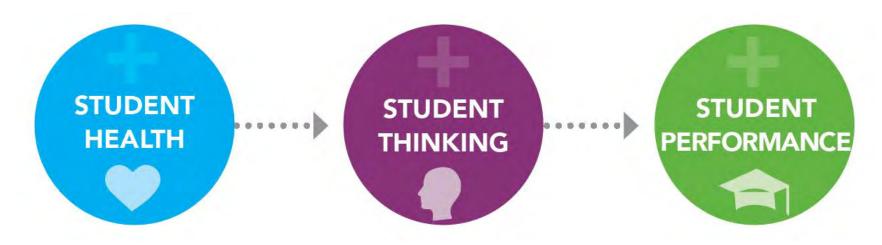
with

Building Performance





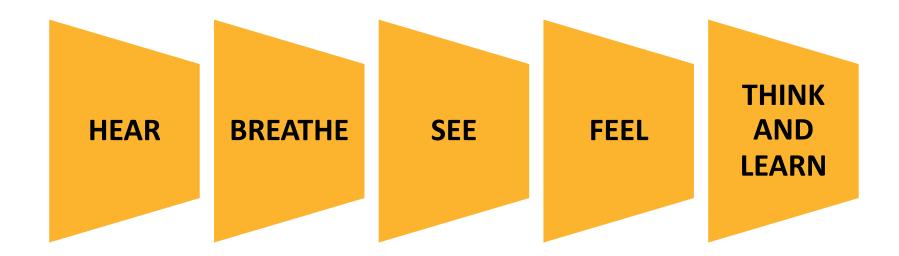
### "Schools for Health: Foundations for Success"



Forhealth.org



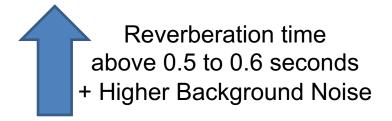
### **Research Overview – How Students:**

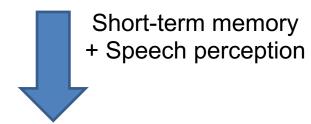




### **How Students: HEAR**

- Clear connection between quality acoustical environments and enhanced performance
- Research: As <u>reverberation time</u> increased (above 0.5 to 0.6 seconds), researchers found significant negative impact on short-term memory and speech perception
- Studies identify importance of <u>low</u> <u>background noise</u> for speech intelligibility

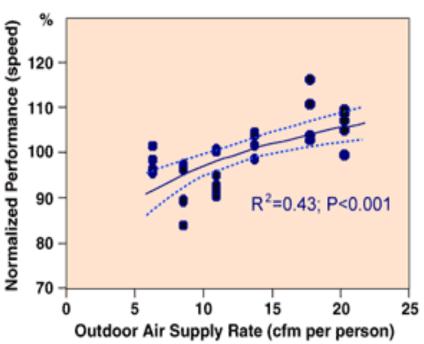






Does noise affect learning? A short review on noise effects on cognitive performance in children (Klatte et al, 2011)

### **How Students: BREATHE**



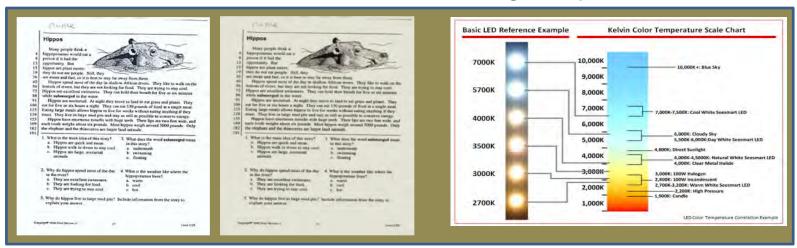
As ventilation rates increase, students' performance (related to task speed) increases



Source: Lawrence Berkeley National Laboratory. 2017. Temperature and School Work Performance

### **How Students: SEE**

# in Visual Acuity and Reading Comprehension

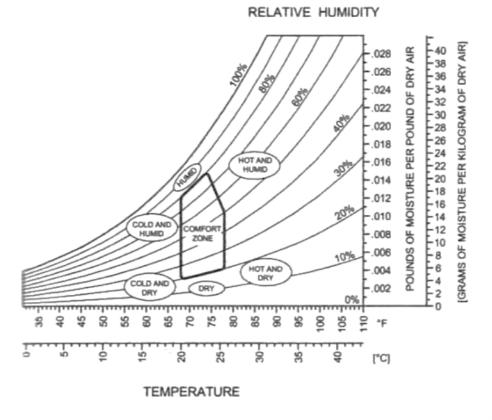


- Recognized relationship between higher student performance and presence of <u>daylight and views</u> (Boyce et al., 2003)
- Optimized lighting environments led to as much as <u>21% increase in</u> <u>student learning rates</u> (Gordon, 2010)



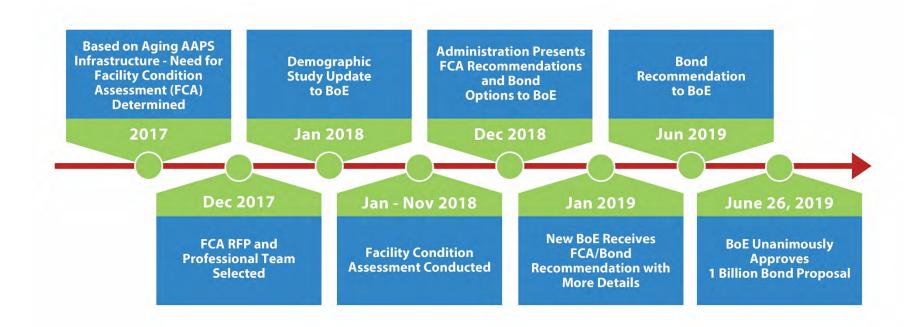
### **How Students: FEEL**

- A reasonable and constant temperature and humidity has been shown to positively impact student health and learning and teacher wellbeing
- Research continues to emphasize linkages between <u>thermal</u> comfort and performance





### **Bond Development Timeline – 2 Years**



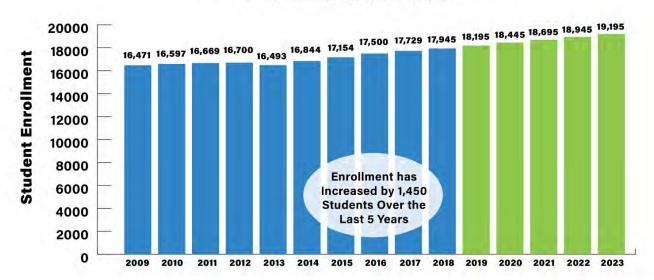


### **Capacity & Growth Projections**

- 2015 Plante Moran CRESA Analysis: average AAPS school is at 91% capacity; 9 schools at or above 100% capacity; recommended best practice capacity is 80-85%
- 2018 Mitchell Mouat Architects Presentation indicated a total K-12 estimated enrollment increase of approximately 1,250 (+/- 10%) school-aged children within the next five years

### **Student Enrollment Comparison**

Fall Count From 2009 (Actual) to 2023 (Projected)





### **Facility Condition Index (FCI)**

The Facility Condition Index (FCI) is a standard facility management benchmark that is used to objectively assess the current and projected condition of a building asset. FCI is defined as: the ratio of current year required renewal cost to current building replacement value.





	Current	Square	2-Year	2-Year	2-Year FCI	2-Year FCI
Location	Replacement Value	Feet (SF)	Capital Needs	Capital Needs/SF	Unabated	w/ Sinking Fund
Preschool	\$6,898,500	22,995	\$1,167,566	\$51	16.9%	14.6%
Abbott Elementary	\$15,829,500	52,765	\$2,231,876	\$42	14.1%	12.8%
Allen Elementary	\$19,616,400	65,388	\$554,733	\$8	2.8%	1.5%
Angell Elementary	\$11,060,400	36,868	\$756,229	\$21	6.8%	5.5%
Bach Elementary	\$15,927,000	53,090	\$1,055,958	\$20	6.6%	5.3%
Bryant Elementary	\$18,057,600	60,192	\$1,996,865	\$33	11.1%	9.7%
Burns Park Elementary	\$18,297,600	60,992	\$4,313,382	\$71	23.6%	22.2%
Carpenter Elementary	\$15,761,700	52,539	\$6,264,914	\$119	39.7%	38.4%
Dicken Elementary	\$12,959,700	43,199	\$2,307,199	\$53	17.8%	16.5%
Freeman Elementary	\$9,624,000	32,080	\$2,457,794	\$77	25.5%	24.2%
Eberwhite Elementary	\$18,635,100	62,117	\$4,300,412	\$69	23.1%	21.7%
Haisley Elementary	\$17,409,600	58,032	\$2,185,010	\$38	12.6%	11.2%
King Elementary	\$15,660,000	52,200	\$1,101,534	\$21	7.0%	5.7%
Lakewood Elementary	\$12,764,700	42,549	\$922,458	\$22	7.2%	5.9%
Lawton Elementary	\$17,702,700	59,009	\$1,060,626	\$18	6.0%	4.6%
Logan Elementary	\$17,991,000	59,970	\$2,552,827	\$43	14.2%	12.8%
Ann Arbor Open Elementary	\$26,553,900	88,513	\$2,486,026	\$28	9.4%	8.0%
Mitchell Elementary	\$13,030,500	43,435	\$2,654,477	\$61	20.4%	19.0%
A2 STEAM	\$19,132,800	63,776	\$9,565,512	\$150	50.0%	48.7%
Pattengill Elementary	\$16,140,000	53,800	\$4,581,521	\$85	28.4%	27.0%
Pittsfield Elementary	\$12,489,300	41,631	\$842,037	\$20	6.7%	5.4%
Thurston Elementary	\$17,541,000	58,470	\$1,946,201	\$33	11.1%	9.8%
Wines Elementary	\$14,844,600	49,482	\$2,304,810	\$47	15.5%	14.2%
Clague Middle School	\$46,800,000	156,000	\$2,343,461	\$15	5.0%	3.7%
Forsythe Middle School	\$55,546,800	185,156	\$3,626,412	\$20	6.5%	5.2%
Scarlett Middle School	\$48,827,400	162,758	\$3,566,224	\$22	7.3%	6.0%
Slauson Middle School	\$57,027,000	190,090	\$3,636,996	\$19	6.4%	5.0%
Tappan Middle School	\$64,782,600	215,942	\$4,261,860	\$20	6.6%	5.2%
Pathways to Success	\$11,520,600	38,402	\$1,055,702	\$27	9.2%	7.8%
Huron High School	\$121,556,100	405,187	\$4,707,678	\$12	3.9%	2.5%
Pioneer High School	\$121,407,600	404,692	\$1,910,201	\$5	1.6%	0.2%
Community High School	\$17,460,000	58,200	\$3,873,070	\$67	22.2%	20.8%
Skyline High School	\$114,169,200	380,564	\$6,398,863	\$17	5.6%	4.3%
Balas Bldg	\$13,980,000	46,600	\$1,011,790	\$22	7.2%	5.9%
Transportation -Main Bldg	\$5,488,200	18,294	\$940,977	\$51	17.1%	15.8%
TOTAL / AVERAGE	\$1,042,493,100	3,474,977	\$96,943,201	\$41	13.6%	12.2%

2-Year Facility Condition Index (FCI)

**Unabated and with Current Sinking Fund** 

**Average Condition = POOR (12%)** 

POOR CONDITION: The buildings are mostly below standard with many elements approaching the end of their service life. A large portion systems exhibit deterioration. Conditions are of significant concern with a strong risk of failure.

School	FCI	# Schools	# Schools
Condition	Percentage	Unabated	w/ Sinking
Good	0-5%	3	6
Fair	6-10%	15	14
Poor	11-30%	15	13
Critical	31-50%	2	2
Divest	50%+	0	0

ŀ	FCI =	Deferred Maintenance Deficiencies (DMD)				
t	rci-	Current Replacement Value (CRV)				
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	Current Replacement	Square	5-Year	5-Year	5-Year FCI	5-Year FCI
Location	Value (3% Escalation)	Feet (SF)	Capital Needs	Capital Needs/SF	Unabated	w/ Sinking Fund
Preschool	\$7,465,169	22,995	\$3,977,001	\$173	53.3%	48%
Abbott Elementary	\$17,129,794	52,765	\$5,287,996	\$100	30.9%	26%
Allen Elementary	\$21,227,765	65,388	\$2,054,347	\$31	9.7%	4%
Angell Elementary	\$11,968,943	36,868	\$4,342,216	\$118	36.3%	31%
Bach Elementary	\$17,235,304	53,090	\$5,856,141	\$110	34.0%	29%
Bryant Elementary	\$19,540,919	60,192	\$8,341,766	\$139	42.7%	37%
Burns Park Elementary	\$19,800,633	60,992	\$9,891,191	\$162	50.0%	45%
Carpenter Elementary	\$17,056,425	52,539	\$11,463,982	\$218	67.2%	62%
Dicken Elementary	\$14,024,258	43,199	\$7,317,970	\$169	52.2%	47%
Freeman Elementary	\$10,414,551	32,080	\$6,310,451	\$197	60.6%	55%
Eberwhite Elementary	\$20,165,857	62,117	\$8,858,382	\$143	43.9%	39%
Haisley Elementary	\$18,839,690	58,032	\$4,899,420	\$84	26.0%	21%
King Elementary	\$16,946,371	52,200	\$6,294,603	\$121	37.1%	32%
Lakewood Elementary	\$13,813,240	42,549	\$4,438,784	\$104	32.1%	27%
Lawton Elementary	\$19,156,866	59,009	\$3,852,730	\$65	20.1%	15%
Logan Elementary	\$19,468,848	59,970	\$7,966,145	\$133	40.9%	36%
Elementary	\$28,735,137	88,513	\$7,523,527	\$85	26.2%	21%
Mitchell Elementary	\$14,100,874	43,435	\$7,622,085	\$175	54.1%	49%
A2 STEAM	\$20,704,440	63,776	\$14,137,876	\$222	68.3%	63%
Pattengill Elementary	\$17,465,800	53,800	\$8,259,058	\$154	47.3%	42%
Pittsfield Elementary	\$13,515,218	41,631	\$2,372,037	\$57	17.6%	12%
Thurston Elementary	\$18,981,884	58,470	\$4,915,660	\$84	25.9%	21%
Wines Elementary	\$16,063,991	49,482	\$6,930,149	\$140	43.1%	38%
Clague Middle School	\$50,644,328	156,000	\$19,058,259	\$122	37.6%	32%
Forsythe Middle School	\$60,109,622	185,156	\$17,585,817	\$95	29.3%	24%
Scarlett Middle School	\$52,838,266	162,758	\$11,744,989	\$72	22.2%	17%
Slauson Middle School	\$61,711,412	190,090	\$15,710,719	\$83	25.5%	20%
Tappan Middle School	\$70,104,086	215,942	\$17,431,540	\$81	24.9%	20%
Pathways to Success	\$12,466,945	38,402	\$4,185,408	\$109	33.6%	28%
Huron High School	\$131,541,174	405,187	\$35,044,082	\$86	26.6%	21%
Pioneer High School	\$131,380,476	404,692	\$30,890,566	\$76	23.5%	18%
Community High School	\$18,894,230	58,200	\$7,906,750	\$136	41.8%	37%
Skyline High School	\$123,547,486	380,564	\$27,548,106	\$72	22.3%	17%
Balas Bldg	\$15,128,370	46,600	\$2,507,419	\$54	16.6%	11%
Transportation - Main Bldg	\$5,939,021	18,294	\$1,854,655	\$101	31.2%	26%
TOTAL / AVERAGE	\$1,128,127,393	3,474,977	\$344,381,827	\$116	35.8%	30.5%

**5-Year Facility Condition Index (FCI)** 

**Unabated and with Current Sinking Fund** 

**Average Condition = CRITICAL (30%)** 

POOR/CRITICAL CONDITION: The buildings are in an unacceptable condition with widespread signs of deterioration. Many building systems exhibit signs of imminent failure.

School	FCI	# Schools	# Schools
Condition	Percentage	Unabated	w/ Sinking
Good	0-5%	0	1
Fair	6-10%	1	0
Poor	11-30%	13	18
Critical	31-50%	15	13
Divest	50%+	6	3

FCI =	Deferred Maintenance Deficiencies (DMD)				
FCI =	Current Replacement Value (CRV)				



	Current Replacement	Square	10-Year	10-Year	10-Year FCI	10-Year FCI
Location	Value (3% Escalation)	Feet (SF)	Capital Needs	Capital Needs/SF	Unabated	w/ Sinking Fund
Preschool	\$8,446,153	22,995	\$7,619,520	\$331	90.2%	88.3%
Abbott Elementary	\$19,380,790	52,765	\$6,885,448	\$130	35.5%	34.4%
Allen Elementary	\$24,017,267	65,388	\$3,614,043	\$55	15.0%	14.0%
Angell Elementary	\$13,541,760	36,868	\$6,871,166	\$186	50.7%	49.6%
Bach Elementary	\$19,500,164	53,090	\$7,781,160	\$147	39.9%	38.8%
Bryant Elementary	\$22,108,756	60,192	\$12,116,584	\$201	54.8%	53.7%
Burns Park Elementary	\$22,402,599	60,992	\$11,879,560	\$195	53.0%	51.9%
Carpenter Elementary	\$19,297,779	52,539	\$14,844,170	\$283	76.9%	75.8%
Dicken Elementary	\$15,867,161	43,199	\$10,483,702	\$243	66.1%	65.0%
Freeman Elementary	\$11,783,109	32,080	\$6,856,298	\$214	58.2%	57.1%
Eberwhite Elementary	\$22,815,816	62,117	\$10,982,781	\$177	48.1%	47.0%
Haisley Elementary	\$21,315,380	58,032	\$6,456,722	\$111	30.3%	29.2%
King Elementary	\$19,173,263	52,200	\$8,514,854	\$163	44.4%	43.3%
Lakewood Elementary	\$15,628,414	42,549	\$7,376,130	\$173	47.2%	46.1%
Lawton Elementary	\$21,674,236	59,009	\$7,927,206	\$134	36.6%	35.5%
Logan Elementary	\$22,027,215	59,970	\$10,417,387	\$174	47.3%	46.2%
Ann Arbor Open Elementary	\$32,511,170	88,513	\$10,253,027	\$116	31.5%	30.4%
Mitchell Elementary	\$15,953,845	43,435	\$11,294,072	\$260	70.8%	69.7%
A2 STEAM	\$23,425,173	63,776	\$20,171,873	\$316	86.1%	85.0%
Pattengill Elementary	\$19,760,950	53,800	\$10,889,215	\$202	55.1%	54.0%
Pittsfield Elementary	\$15,291,229	41,631	\$4,202,732	\$101	27.5%	26.4%
Thurston Elementary	\$21,476,259	58,470	\$8,229,834	\$141	38.3%	37.2%
Wines Elementary	\$18,174,931	49,482	\$9,500,166	\$192	52.3%	51.2%
Clague Middle School	\$57,299,408	156,000	\$22,299,864	\$143	38.9%	37.8%
Forsythe Middle School	\$68,008,521	185,156	\$21,417,302	\$116	31.5%	30.4%
Scarlett Middle School	\$59,781,648	162,758	\$20,953,669	\$129	35.1%	34.0%
Slauson Middle School	\$69,820,798	190,090	\$20,238,705	\$106	29.0%	27.9%
Tappan Middle School	\$79,316,338	215,942	\$27,260,815	\$126	34.4%	33.3%
Pathways to Success	\$14,105,204	38,402	\$6,703,370	\$175	47.5%	46.4%
Huron High School	\$148,826,764	405,187	\$47,647,264	\$118	32.0%	30.9%
Pioneer High School	\$148,644,949	404,692	\$46,316,001	\$114	31.2%	30.1%
Community High School	\$21,377,087	58,200	\$10,243,712	\$176	47.9%	46.8%
Skyline High School	\$139,782,641	380,564	\$57,249,072	\$150	41.0%	39.9%
Balas Bldg	\$17,116,362	46,600	\$5,217,525	\$112	30.5%	29.4%
Transportation - Main Bldg	\$6,719,458	18,294	\$3,565,389	\$195	53.1%	52.0%
TOTAL / AVERAGE	\$1,276,372,597	3,474,977	\$504,280,338	\$169	45.9%	44.8%

10-Year Facility Condition Index (FCI)
Unabated and with Current Sinking Fund
Average Condition = CRITICAL (49%)

CRITICAL CONDITION: The buildings are in an unacceptable condition with widespread advanced signs of deterioration. Many of the building systems exhibit signs of imminent failure.

School	FCI	# Schools	# Schools
Condition	Percentage	Unabated	w/ Sinking
Good	0-5%	0	0
Fair	6-10%	0	0
Poor	11-30%	3	5
Critical	31-50%	20	19
Divest	50%+	12	11

FCI = Deferred Maintenance Deficiencies (DMD)

Current Replacement Value (CRV)



	Current Replacement	Square	20-Year	20-Year	20-Year FCI	20-Year FCI
Location	Value (3% Escalation)	Feet (SF)	Capital Needs	Capital Needs/SF	Unabated	w/ Sinking Fund
Preschool	\$10,811,790	22,995	\$13,443,114	\$585	124.3%	123.5%
Abbott Elementary	\$24,809,050	52,765	\$12,573,246	\$238	50.7%	49.8%
Allen Elementary	\$30,744,133	65,388	\$11,010,780	\$168	35.8%	35.0%
Angell Elementary	\$17,334,598	36,868	\$9,459,365	\$257	54.6%	53.7%
Bach Elementary	\$24,961,858	53,090	\$11,441,105	\$216	45.8%	45.0%
Bryant Elementary	\$28,301,077	60,192	\$17,064,361	\$283	60.3%	59.4%
Burns Park Elementary	\$28,677,221	60,992	\$19,885,791	\$326	69.3%	68.5%
Carpenter Elementary	\$24,702,789	52,539	\$22,376,713	\$426	90.6%	89.7%
Dicken Elementary	\$20,311,308	43,199	\$14,590,657	\$338	71.8%	71.0%
Freeman Elementary	\$15,083,376	32,080	\$10,723,546	\$745	71.1%	70.2%
Eberwhite Elementary	\$29,206,174	62,117	\$23,904,909	\$193	81.8%	81.0%
Haisley Elementary	\$27,285,488	58,032	\$11,982,515	\$206	43.9%	43.1%
King Elementary	\$24,543,398	52,200	\$13,356,948	\$256	54.4%	53.6%
Lakewood Elementary	\$20,005,691	42,549	\$11,061,960	\$260	55.3%	54.4%
Lawton Elementary	\$27,744,854	59,009	\$12,236,120	\$207	44.1%	43.2%
Logan Elementary	\$28,196,697	59,970	\$17,913,604	\$299	63.5%	62.7%
Ann Arbor Open	\$41,617,046	88,513	\$16,689,543	\$189	40.1%	39.2%
Mitchell Elementary	\$20,422,270	43,435	\$14,739,195	\$339	72.2%	71.3%
A2 STEAM	\$29,986,202	63,776	\$35,854,499	\$562	119.6%	118.7%
Pattengill Elementary	\$25,295,686	53,800	\$16,066,255	\$299	63.5%	62.7%
Pittsfield Elementary	\$19,574,065	41,631	\$9,331,580	\$224	47.7%	46.8%
Thurston Elementary	\$27,491,427	58,470	\$16,920,019	\$289	61.5%	60.7%
Wines Elementary	\$23,265,449	49,482	\$15,760,571	\$319	67.7%	66.9%
Clague Middle School	\$73,348,087	156,000	\$31,357,749	\$201	42.8%	41.9%
Forsythe Middle School	\$87,056,656	185,156	\$34,661,341	\$187	39.8%	39.0%
Scarlett Middle School	\$76,525,563	162,758	\$31,307,083	\$192	40.9%	40.1%
Slauson Middle School	\$89,376,524	190,090	\$34,172,269	\$180	38.2%	37.4%
Tappan Middle School	\$101,531,619	215,942	\$40,747,248	\$189	40.1%	39.3%
Pathways to Success	\$18,055,854	38,402	\$11,052,153	\$288	61.2%	60.4%
Huron High School	\$190,510,841	405,187	\$89,062,215	\$220	46.7%	45.9%
Pioneer High School	\$190,278,102	404,692	\$64,790,782	\$160	34.1%	33.2%
Community High School	\$27,364,478	58,200	\$14,602,608	\$251	53.4%	52.5%
Skyline High School	\$178,933,598	380,564	\$98,951,045	\$260	55.3%	54.4%
Balas Bldg	\$21,910,390	46,600	\$9,126,793	\$196	41.7%	40.8%
Transportation - Main Bldg	\$8,601,474	18,294	\$5,572,377	\$305	64.8%	63.9%
TOTAL / AVERAGE	\$1,633,864,834	3,474,977	\$823,790,059	\$281	58.5%	57.7%

20-Year Facility Condition Index (FCI)

**Unabated and with Current Sinking Fund** 

**Average Condition = DIVEST (58%)** 

DIVEST: Systems failure is widespread and building conditions are exceptionally poor. The buildings have reached the end of their useful life and require replacement, renewal or other significant action.

School	FCI	# Schools	# Schools
Condition	Percentage	Unabated	w/ Sinking
Good	0-5%	0	0
Fair	6-10%	0	0
Poor	11-30%	0	0
Critical	31-50%	14	15
Divest	50%-100%	19	18
Divest +	100%+	2	2

FCI = Deferred Maintenance Deficiencies (DMD)

Current Replacement Value (CRV)



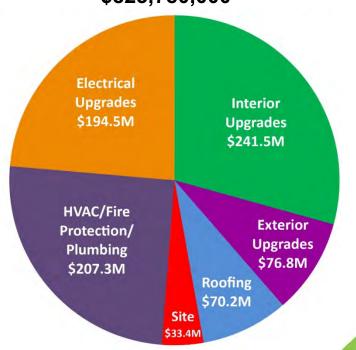
### Facilities Condition Assessment (FCA) – Results

The FCA analysis revealed that in order to maintain AAPS schools in the <u>good</u> condition category, a 20-year investment of more than \$823 million would be required, in the categories depicted.

EMG concluded that the facilities were found to be in overall good to fair condition and have had adequate maintenance over the past few years. However, without substantial upfront investment, many of the schools will fall into the 'poor' rating within a few years.

**EMG Executive Summary, 2018** 

### 20-Year FCA Investment Recommendations \$823,780,000



### Cost of items NOT included in the FCA

The costs for the elements not included in the FCA total is an additional 20-year \$618M, to include:

ADDITIONAL INVESTMENT (Not in FCA)	ANNUAL COST
New schools and classrooms for student population growth	\$10M/yr
Furniture refresh	\$1M/yr
Bus fleet refresh	\$2M/yr
Technology refresh	\$5M/yr
Maintaining schools in "Good/Exceptional" condition	\$5M/yr
ANNUAL TOTAL ADDITIONAL INVESTMENT	\$23M/yr
20-YEAR TOTAL ADDITIONAL INVESTMENTS (@ 3% inflation)	\$618M



# **Combined FCA and Non-FCA Capital Infrastructure Investments**

### Additional Investment of more than \$1.44B over 20 years

	FCA RECOMMENDATIONS	OTHER IMPROVEMENTS (Not in FCA)	TOTAL
2 Years	\$148,562,000	\$46,690,000	\$195,252,000
5 Years	\$344,378,000	\$122,110,124	\$466,488,124
10 Years	\$504,274,000	\$263,669,224	\$767,943,224
20 Years	\$823,780,000	\$618,018,613	\$1,441,798,613



### The Power of Combining the Sinking Fund and a Bond Issue

- Assumption: Sinking Fund renewed at 2.50 mills for 10 years least twice more (2027 & 2037)
- District spends \$8M per year on repairs from the Sinking Fund (over 20 years – total = \$160M)
- Over 20 years District will have collected \$1B from the bond issue and \$613M from the sinking fund

FUNDING SOURCES	TOTAL COSTS	
2017 Sinking Fund	\$205M	
SF Renewal 2027	\$331M	
SF Renewal 2037 (Years 1+2)	\$77M	
2019 Bond	\$1B	
Total Available Funds	\$1.613B	
Less Yearly Repairs	(\$160M)	
20 Years	\$1.453B	



### **Financial Impact to the Community**

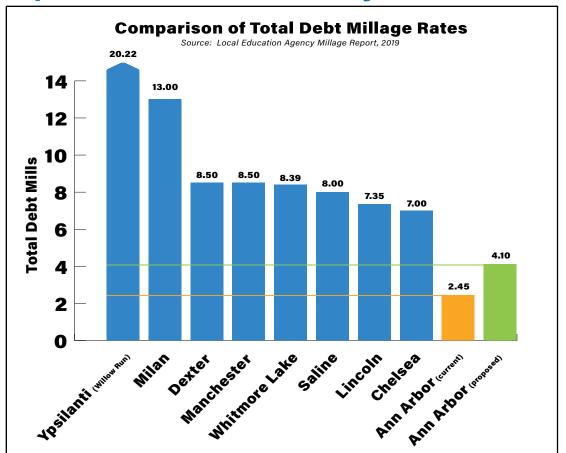
OME MARKET VALUE	HOME TAXABLE VALUE	ANNUAL INCREASE	MONTHLY INCREASE
\$200,000	\$100,000	\$165	\$13.75
\$300,000	\$150,000	\$248	\$20.67
\$400,000	\$200,000	\$330	\$27.50
Average Taxable Value in Ann Arbor School District	\$138,000	\$228	\$19.00

\*Township/City Tax Records, 2019

In the first year, the millage rate is projected to increase by 1.65 mills over the 2019 debt levy.



### **Financial Impact to the Community**





# 2019 BOND **PREPARING FOR THE FUTURE** GOALS

### TEACHING & LEARNING

Continue the Tradition of Academic Excellence

SUSTAINABLE &
ENVIRONMENTALLY
RESPONSIBLE
INFRASTRUCTURE

Create Resilient Schools for Climate Change

### SAFETY, HEALTH & WELL-BEING

Focus on Development of the Whole Child

# EFFICIENT & EFFECTIVE SUPPORT SYSTEMS & SERVICES

Continue Technology & Transportation Replacement and Renewal





- Upgrade classrooms and labs
- Improve natural light, air quality, sound
- Enhance performing arts spaces
- Replace musical instruments
- Add social / emotional support areas for counselors, nurses, tutors and speech therapists
- Create STEAM / Makerspace labs
- Address projected growth in student enrollment and overcrowding while maintaining class size
- Collaborative, project-based spaces in all schools
- Build upon long-standing environmental education program with new curricula and instructional models



- Add secure entry vestibules
- Upgrade surveillance cameras and access systems
- Ensure safe drinking water and air quality
- Cook healthy local food in the cafeterias
- Install school gardens
- Enhance playgrounds and athletic facilities
- Upgrade parking lots

### & WELL-BEING

Focus on Development of the Whole Child



# SUSTAINABLE & ENVIRONMENTALLY RESPONSIBLE INFRASTRUCTURE

Create Resilient Schools

for Climate Change

- Prepare our schools to adapt to climate change
- Chart a course for carbon neutrality
- Utilize interior and exterior finishes that are long-lasting and require minimal maintenance and replacement
- Install dimmable LED lighting
- Install renewable solar & geothermal energy sources
- Increase recycling and composting



- Add new classroom devices / equipment to support curriculum goals
- Refresh devices and equipment to stay current over next 15 -20 years
- Renovate media centers to support digital learning and collaboration
- Continue bus fleet replacement schedule reduce repair costs, stay up-to-date on efficiency improvements, and promote bus fleet safety
- Provide improved custodial, information technology, public address, and audio/visual support spaces

# EFFICIENT & EFFECTIVE SUPPORT SYSTEMS & SERVICES

Continue Technology & Transportation Replacement and Renewal



### **YEARS 1-6**



- Air Conditioning
- Solar Power
- LED Lighting



- Cooking Kitchens
- Cafeteria Renovations
- Safe Drinking Water
- Teaching Gardens



- Media Center Renovations
- STEAM Lab Collaboration Spaces
- Outdoor Classrooms



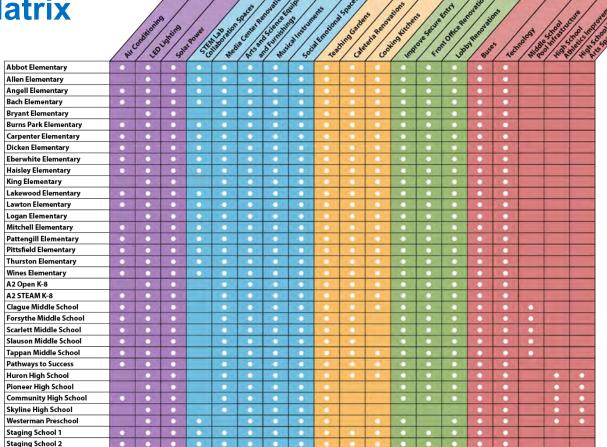
- Improved Secure Entry
- Front Office Renovations
- Lobby Renovations



- 2 New Schools
- · Roofing & Paving
- Music, Arts &
   Science Furnishings,
   Equipment &
   Instruments
- Buses
- Technology
- Middle School Pools
- High School Athletics
   Performing Arts
   Spaces



### **School Matrix**





### **PLANNING / DESIGN PROCESS**

COMMUNITY

**PROFESSIONAL** TEAM

### **RESEARCH & DEFINE**

Facilities and Program Assessment

BOARD OF **EDUCATION** 

**REVIEW & FEEDBACK** Assessment Reports and Preliminary Concepts reviewed by Board of Education

SCHOOL DESIGN COMMITTEE

### **REVIEW & FEEDBACK**

Preliminary Concepts presented to the School Design Committee for Review & Feedback

### FEEDBACK

Refined Preliminary Concepts Shared with Community at **Public Engagement Sessions** 

SCHOOL DESIGN COMMITTEE &

**PROFESSIONAL TEAM** 

### **REVIEW & REFINE**

School Design Committee works with professional team to Refine Concepts based on Feedback

BOARD OF **EDUCATION** 

### **REVIEW & APPROVAL**

Concept Presented to Board of Education for Approval

**PROJECT BEGINS** 

### ONGOING COMMUNICATION

hared with Community



### **Case Study**

Washington DC Schools 47,548 Students

### DISTRICT OF COLUMBIA PUBLIC SCHOOLS

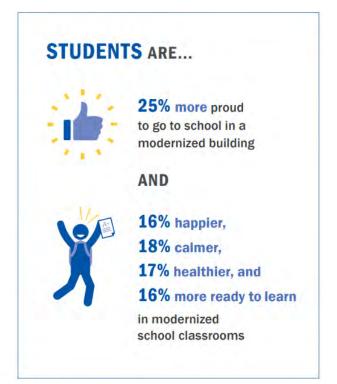
MODERNIZATION PROGRAM

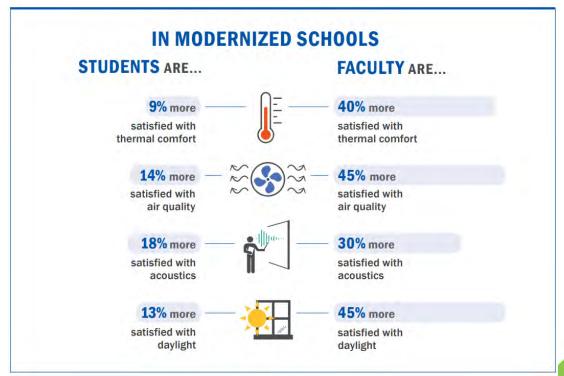
- Over \$4 Billion has been invested to modernize school facilities in the District since the early 2000s.
- Between \$300-\$400M is spent annually on Capital construction projects.
- By 2025 all schools will have received a significant Capital investment.





### Value of Modernized Schools – Washington DC Study







# **Modernized Washington DC School**





# **Modernized Washington DC School**







# **Modernized Washington DC School**







# These are examples of the current state of our schools



#### **Outdated Classrooms**





#### **Kitchens**







# **Lights and Ceilings**





#### **Interior Doors**







#### **Exterior Doors & Windows Elevators**











## **Mechanical Rooms**





#### **Exhaust Fans**







# **Electrical Systems**





#### **Boilers**





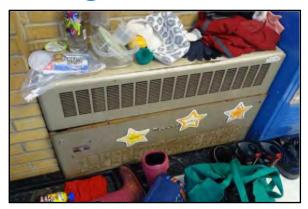


## **Building Facades**





# **Heating Distribution Systems**



**Flooring** 





# This Is What We Want To Create!



#### **Media Center Renovations**



Pontiac, MI



Bloomfield Hills, MI



Manassa, VA



Dexter, MI





# **Collaborative Spaces**



Bloomfield Hills, MI



Manassa, VA



Edina, MN



Perrysburg, OH



# **Collaborative STEAM Labs**



Pico Rivera, CA



Perrysburg, OH



Pico Rivera, CA



Fayetteville, AK





#### **Art Rooms**



Beverly Hills, MI



Perrysburg, OH



Pontiac, MI



Port Huron, MI





#### **Music Rooms & Instruments**



Perrysburg, OH



Spring Lake, MI



Canton, MI



Perrysburg, OH





# **Natural Light**



Dexter, MI



Novi, MI



Cleveland, OH



Cleveland, OH

Safety, Health, & Well-Being



# **Playgrounds**



Ann Arbor, MI



Port Huron, MI



Novi, MI



Novi, MI

Safety, Health, & Well-Being



# **Secure and Inviting Front Entries**



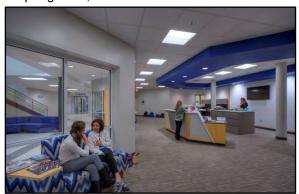
Troy, MI



Troy, MI



Spring Lake, MI



Canton, MI



# **LED Lighting**



Port Huron, MI



Port Huron, MI



Dexter, MI



Pontiac, MI



# **Solar Energy & Sustainable Features**



Washington D.C.



Perrysburg, OH



Arlington, VA



Brentwood, CA



# **Outdoor Learning**



Belleview, WA



Atlanta, GA



Tacoma, WA



Grafton, MA



#### **Technology, Bus and HVAC Replacements**











Northville, MI

Northville, MI

#### As a reminder...

# For both Bond Funds and Sinking Funds:

All of the work must be contracted

None of the funds can be used to pay AAPS

employees



#### 2019 Bond Ballot

# ANN ARBOR PUBLIC SCHOOLS BONDING PROPOSAL

Shall the Public Schools of the City of Ann Arbor, County of Washtenaw, Michigan, borrow the principal sum of not to exceed One Billion Dollar (\$1,000,000,000) and issue its general obligation unlimited tax bonds for the purpose of defraying the cost of making the following improvements: constructing additions to and/or remodeling School District buildings, including safety and security improvements, classrooms, laboratories, kitchens, performing arts and pool facilities, and solar, geothermal and other renewable energy improvements; acquiring and/or constructing buildings in the School District, including elementary, middle and high schools; equipping, furnishing, reequipping and refurnishing buildings in the School District, including the acquisition of school buses and musical instruments; acquiring and installing instructional technology equipment in the School District; and acquiring, improving and developing sites, including athletic fields, facilities, structures, parking and playgrounds, in the School District?

The debt millage levy required to retire all bonds of the School District currently outstanding and proposed by this ballot proposal is estimated to be at or below 4.10 mills. The estimated millage to be levied in 2020 to service this issue of bonds is 1.99 mills (\$1.99 per \$1,000 of taxable value) and the estimated simple average annual millage rate required to retire the bonds of this issue is 3.49 mills (\$3.49 per \$1,000 of taxable value). The bonds will be issued in multiple series, payable in the case of each series in not to exceed 22 years from the date of issue of such series.

(Under State law, bond proceeds may not be used to pay teacher or administrator salaries, routine maintenance or repair costs or other School District operating expenses.)



#### 2019 November 5 Voter Information

- Final Date to Register to Vote
- Final Date to Vote Absentee
- Election Day

**Up to Election Day** 

**Up to Election Day** 

**November 5** 

New laws allow anyone to vote absentee

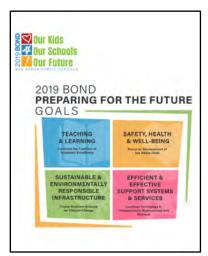


#### **Conclusions**

- The Ann Arbor Public Schools community values a quality education for every child
- AAPS buildings and grounds are aging and in need of major capital investment
- The quality of the built environment directly impacts student achievement and the core mission of the District
- We have received beautiful schools and properties from previous generations, and now it is our responsibility as good stewards to prepare for future generations in AAPS

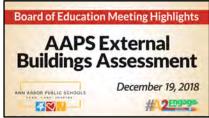


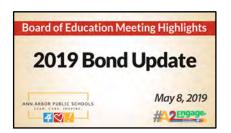
#### 2019 AAPS Bond - Additional Information

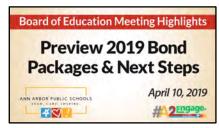


2019 Bond Informational Report













2019 Bond – Board of Education Meeting Highlights

www.a2schools.org/2019bond



Please Vote on November 5, 2019!