



ARROWHEAD ELEMENTARY SCHOOL FACILITIES STUDY

June 4, 2019





KCBA – Architecture/Interior Design/Structural Eng.



Snyder Hoffman Associates – MEP Engineering



Fidevia Incorporated-Construction Manager

Methacton School District Administration



CURRICULUM



FLEXIBILITY







OPERATIONAL

SECURITY

CODE COMPLIANCE



BUILDING SYSTEMS





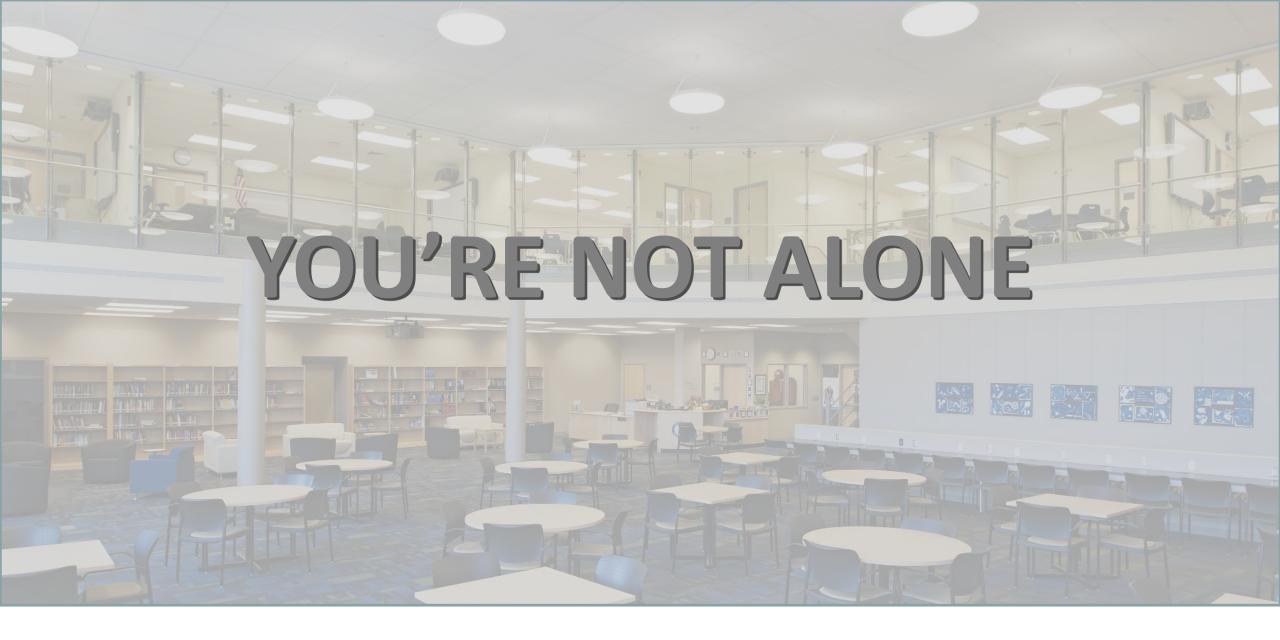
ENROLLMENT



EFFICIENCY

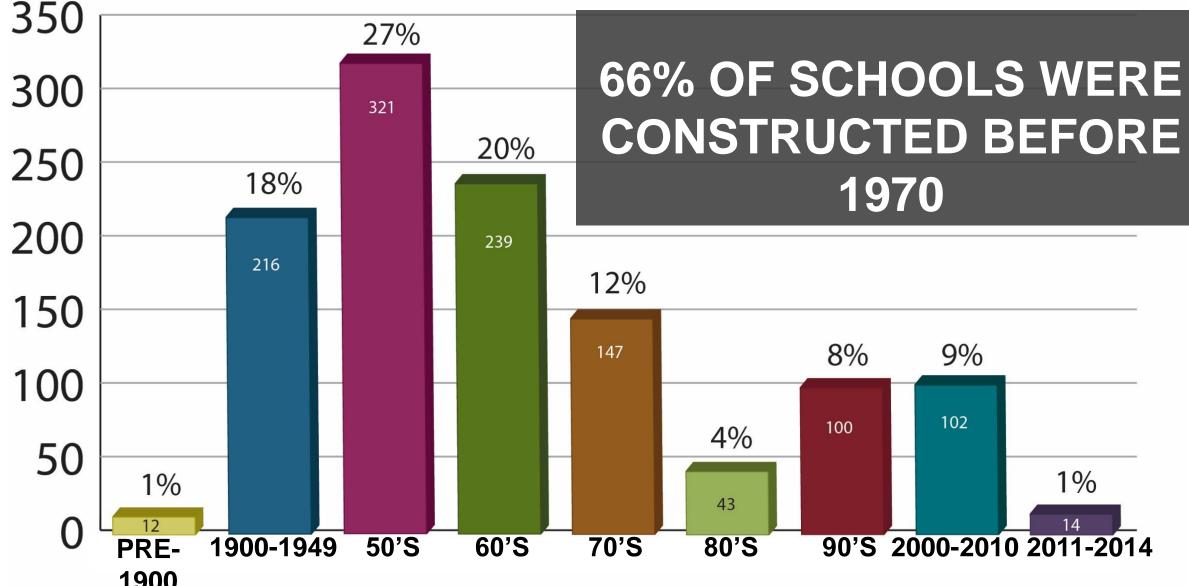








YEAR OF ORIGINAL CONSTRUCTION FOR 1,194 SCHOOL BUILDINGS IN PA



*Data drawn from Pennsylvania Department of Education's *2014 School Facilities Survey*.

BUILDING SYSTEM PROBLEMS IN PENNSYLVANIA'S SCHOOLS

What is the biggest problem with school buildings?						
	All School Districts	Rural	Urban	Suburban	CTCs	IUs
Mechanical/ Electrical /HVAC issues	43.0%	46.4%	37.5%	38.8%	30.0%	30.0%
Other	20.4%	25.6%	18.8%	12.5%	17.5%	20.0%
Not suited to modern teaching/ technology	14.9%	12.0%	12.5%	20.0%	10.0%	10.0%
Structural issues	11.3%	10.4%	12.5%	12.5%	5.0%	10.0%
Inadequate space	10.4%	5.6%	18.8%	16.3%	37.5%	20.0%



*Data drawn from 2016-17 study commissioned by the Pennsylvania Public Education Foundation

What's Changed?

- The <u>workforce</u> has changed
- The way we <u>teach</u> has changed
- Our school buildings need to be <u>adaptable</u> to these educational changes

education

Education of the Past

Current Educational Environments

who will present second

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PINIONS

Education of the Past

Current Educational Environments

Workplace of the Past

Today's Manufacturing

33

Current Educational Environments

Current Educational Environments

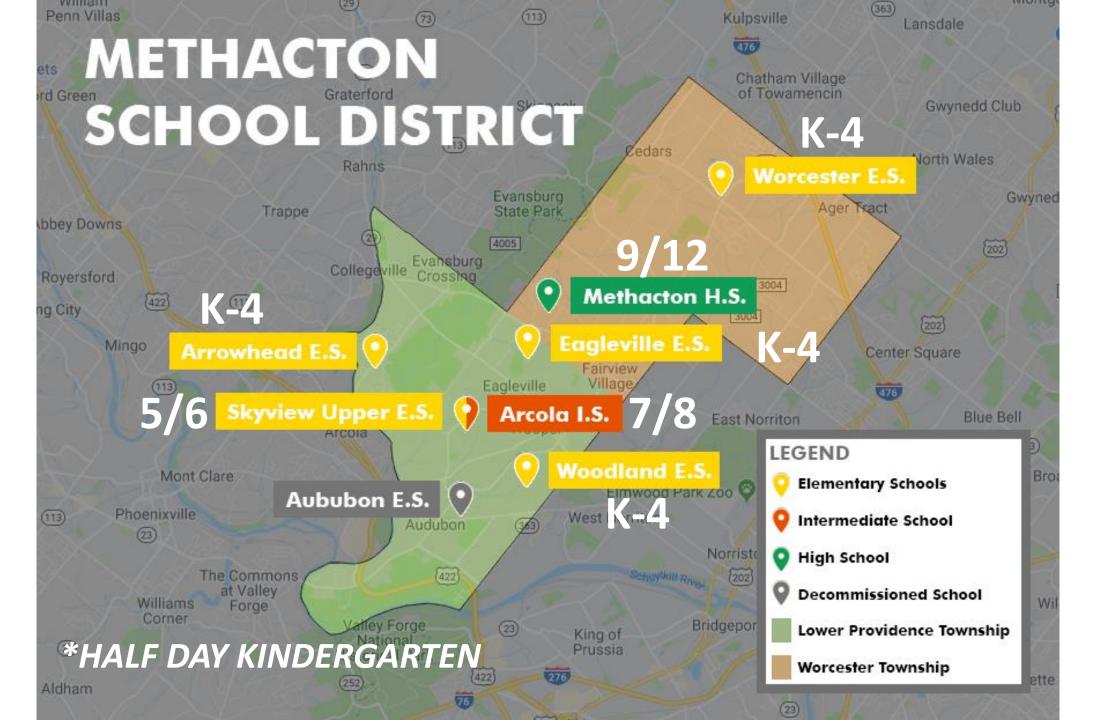
Success is not final;

failure is not fatal. It is

the courage to continue

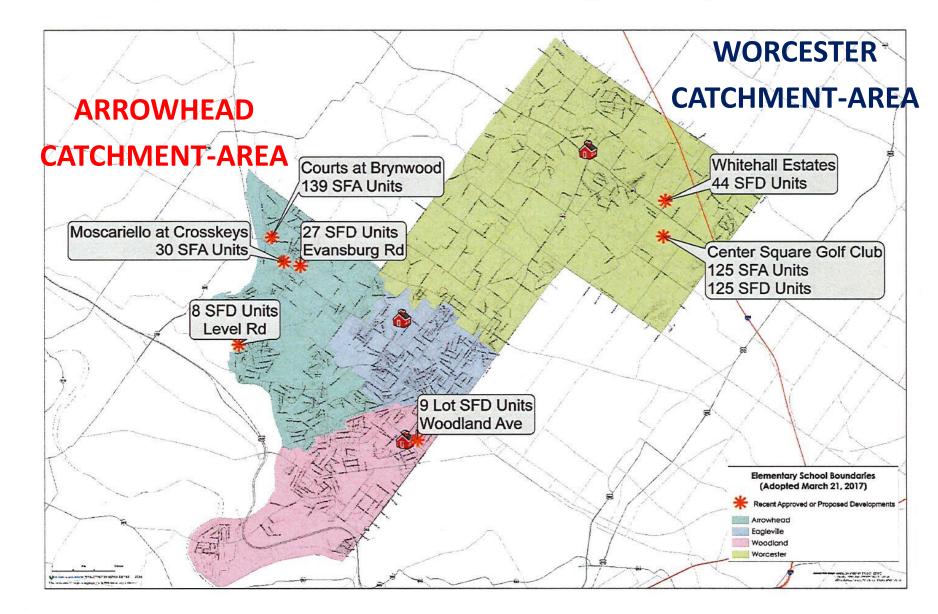
that counts.

STUDENT ENROLLMENT AND BUILDING CAPACITY



Architects PAGE 17

MSD Pipeline Residential Projects (2016 & 2017)



MILONE & MACBROOM



EFFECTS OF FULL DAY KINDERGARTEN

EFFECTS OF FULL DAY KINDERGARTEN



Capacity of one (1) Half Day Kindergarten = 44 22 in the AM 22 in the PM



EFFECTS OF FULL DAY KINDERGARTEN



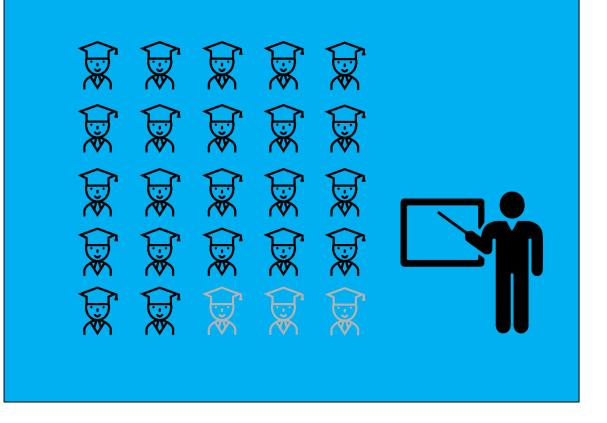


Capacity of one (1) Full Day Kindergarten = 22 22 all day....

*Classroom needed for each section of Kindergarten



PDE Recommended ES Capacity is 85%



PDE Capacity: Capacity as calculated by the state.

Functional Capacity:

Capacity of the school based on how the space is <u>actually used</u>. Accounts for dedicated spaces for pupil services support. Also factors in district standards on class size.

(22 students per classroom K-2) (25 students per classroom 3-4)

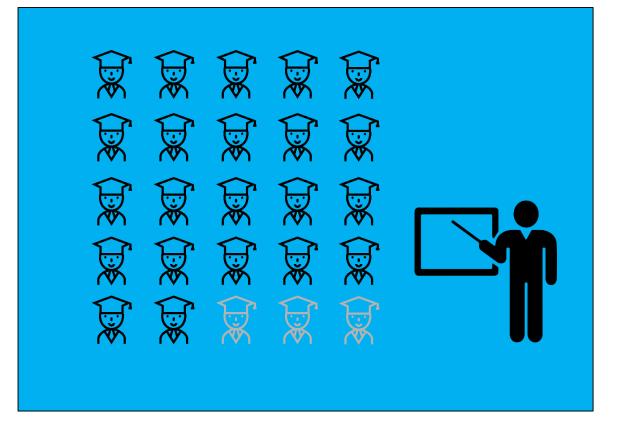
Target Capacity:

85% of functional capacity. Leaves room for growth and unexpected bubble years. Provides flexibility.

Building Analysis – Capacity



Arrowhead Elementary School Current Capacity



PDE Capacity:

Arrowhead's PlanCon capacity is calculated at 525 (includes ½ day K)

Functional Capacity:

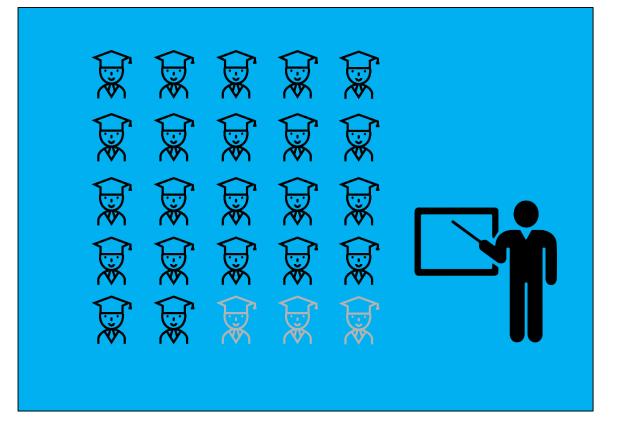
Arrowhead's current functional capacity is 464 K-2 at 22 per classroom (88 each x 3) 3-4 at 25 per classroom (100 each x 2)

Target Capacity:

Arrowhead's current target capacity is 395 (85% of 464)



Arrowhead Elementary School Current Capacity



PDE Capacity:

Arrowhead's PlanCon capacity calculated at **475** (assumes FULL day kindergarten)

Functional Capacity: Arrowhead's functional capacity with full day K is **420** (Removes two kindergarten sections at 22 each)

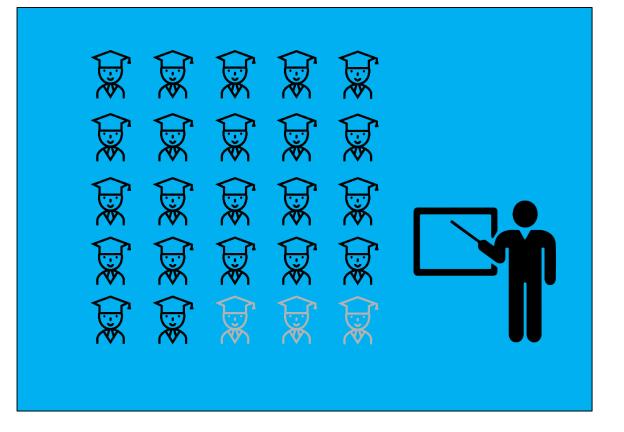
Target Capacity:

Arrowhead's target capacity with full day K is **357** (85% of 420)

Building Analysis – Capacity



Arrowhead Elementary School Current Capacity



PDE Capacity:

Arrowhead's PlanCon capacity calculated at **475** (assumes **FULL day kindergarten**)

Functional Capacity: Arrowhead's functional capacity with full day K and without modular classrooms is **320** (excludes four modular classrooms at 25 each)

Target Capacity:

Arrowhead's target capacity with full day K and without modular classrooms is **272** (85% of 320)

Building Analysis – Capacity





Building Capacity and Student Enrollment

- Functional capacity is impacted by educational use and programming
- Moving from Half Day-K to Full Day-K reduces the functional capacity of an existing school
- District wide housing projects impact future growth within the district



EXISTING CONDITIONS

PROCESS

An architectural/engineering analysis of the existing school and campus was conducted that evaluated the following:

- Overall functionality
- General condition
- Building systems

- Code compliance
- Energy efficiency
- Security protocols





PROCESS

Design team met with district administrators and EVERY teacher from Arrowhead Elementary School to survey their thoughts on the existing building.

Toured three new elementary schools in area school districts:

- Caley Elementary School (Upper Merion Area School District)
- Phoenixville Early Learning Center (Phoenixville Area School District)
- East Coventry Elementary School (Owen J Roberts School District)







Grades: K to 4

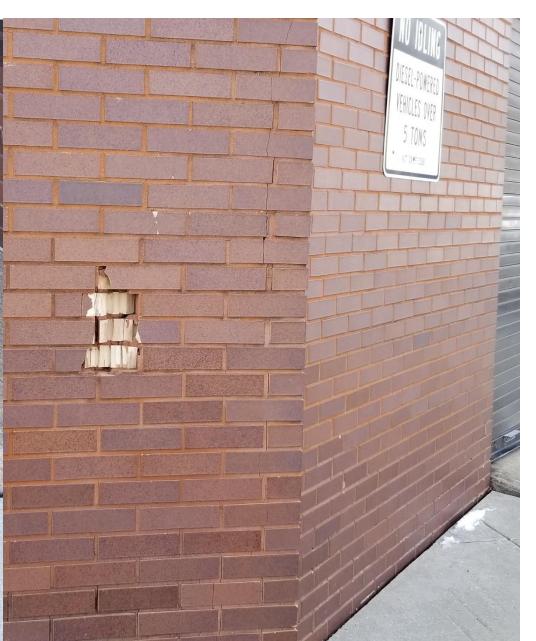
Current Enrollment: 401 Students

Building Capacity: 464 (86% capacity)

Size: 52,534 SF on approx. 14.27 acres 58,534 with modular classrooms

Original Construction: Built in 1974 Modular classrooms added in 1994





Exterior Building Analysis:

- Substandard existing building elements.
- Windows are aluminum frame with noninsulated (single pane) glass.
- Mortar is missing in multiple locations on each elevation.
- Brick is spalling off and missing in multiple locations on each elevation.

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Exterior Building Analysis:

- Overall roof is in poor condition.
- Roof has reached the end of its lifespan.
- Several leaks detected inside the school.
- Steel structure of entrance canopy is rusting.





Exterior Building Analysis:

• Play area in front of school close to main road.



Administration Vestibule

Interior Building Analysis:

- Secure entry vestibule does not link directly to the administration area.
- Open plan limits options for security and safety protocols.

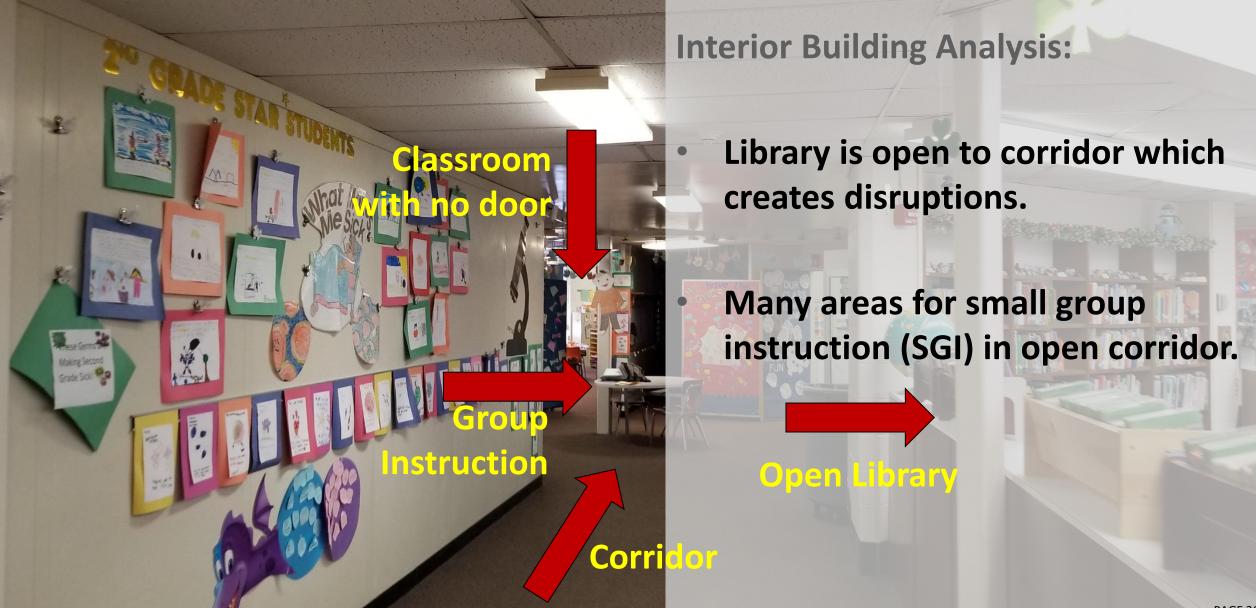




Interior Building Analysis:

- Many of the classrooms have doors direct to the exterior.
- Several classrooms without doors preventing secured lockdown scenarios.
- Some doors lack vision panels.







Interior Building Analysis:

- Modular floors have recently experienced moisture issues.
- Acoustical ceiling tile throughout building is sagging, chipped, and mismatched.





Interior Building Analysis:

- General lack of storage.
- Teacher equipment in hallways.
- Undersized Gym (lack of storage).







• Majority of HVAC systems are nearing the end of their useful life.





• The return air system is no longer acceptable by governing fire codes.

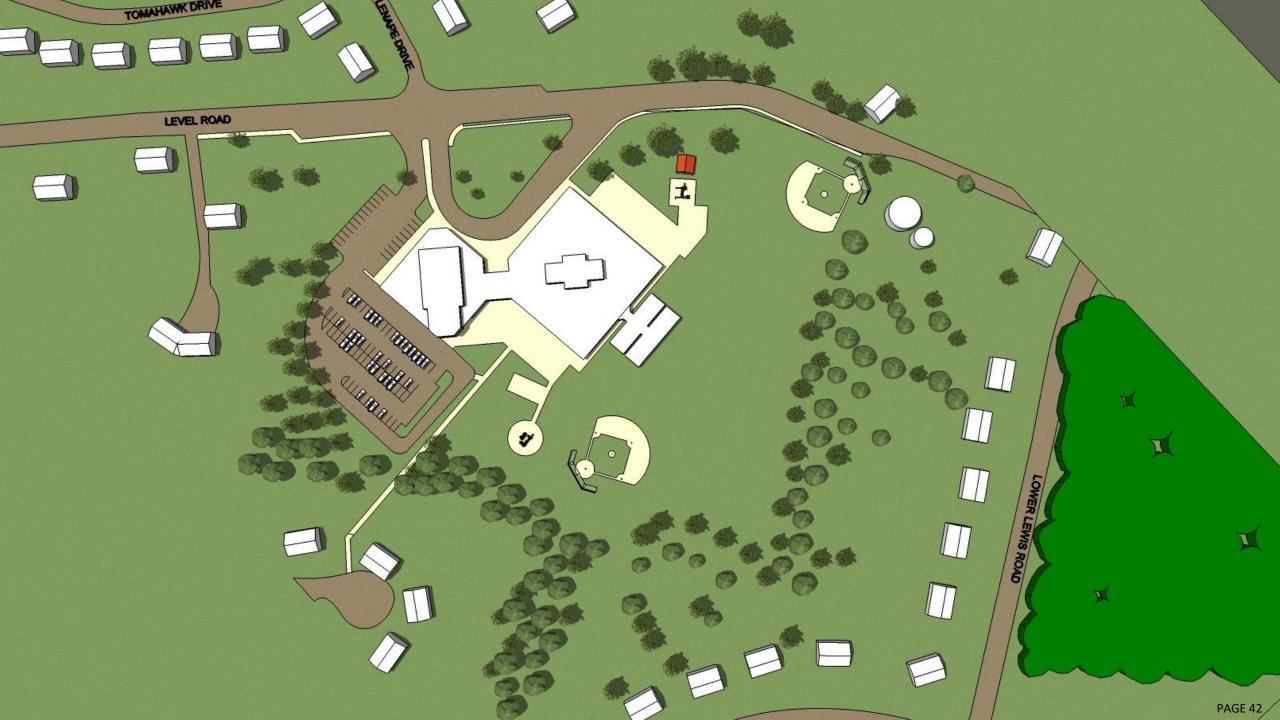


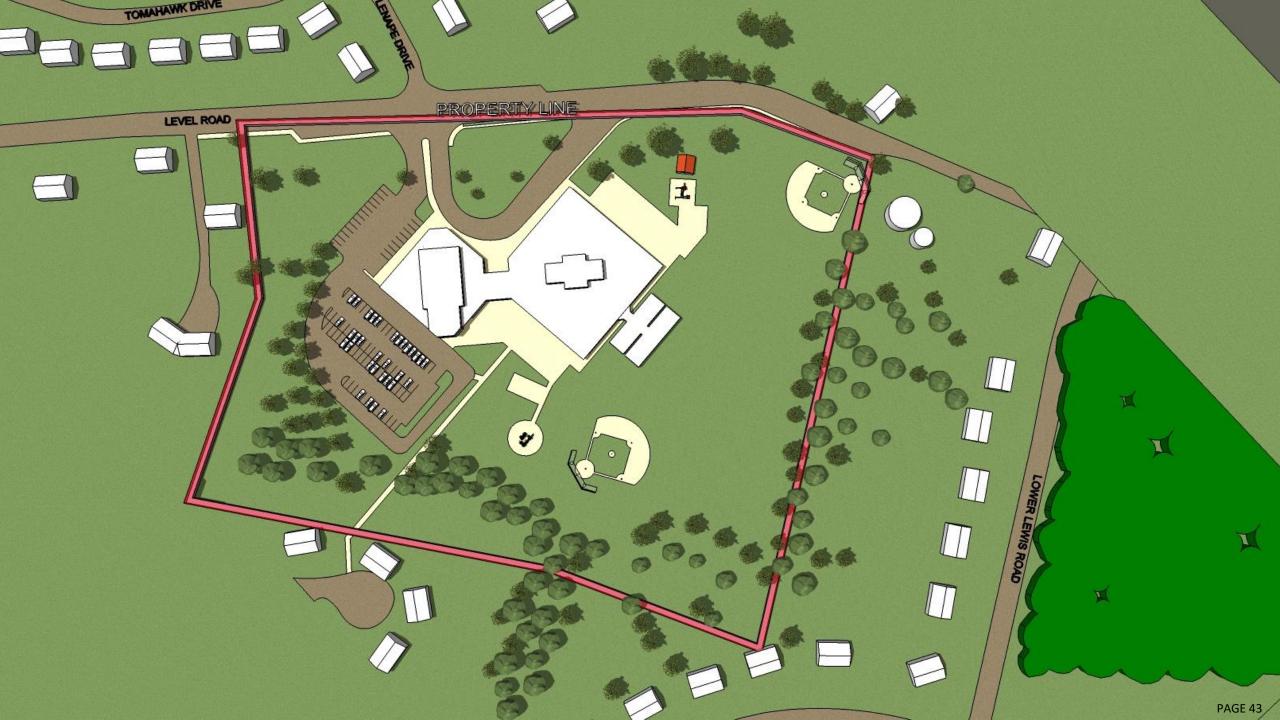


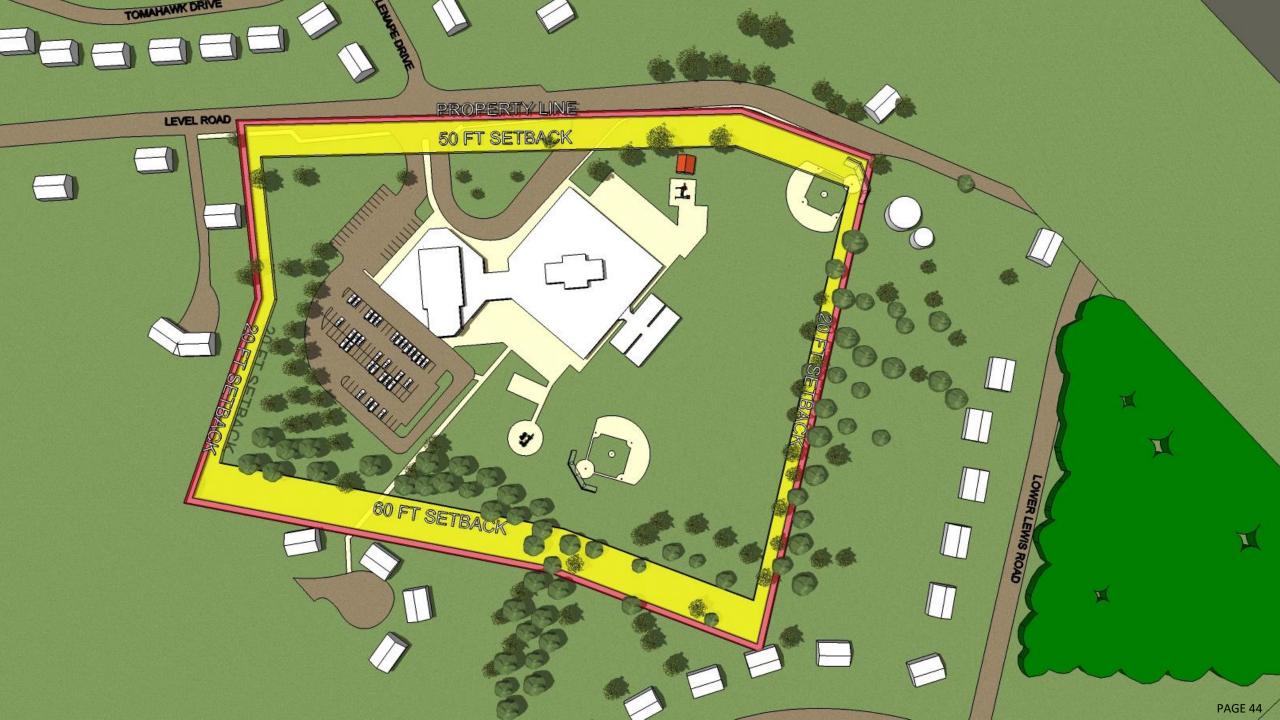
Summary:

- 1. Numerous exterior repairs to roofing, bricks, and flashing needed.
- 2. Numerous interior repairs to building are needed.
- 3. All building systems need replacement and upgrade.
- 4. Educational environments and security protocol improvements needed throughout.

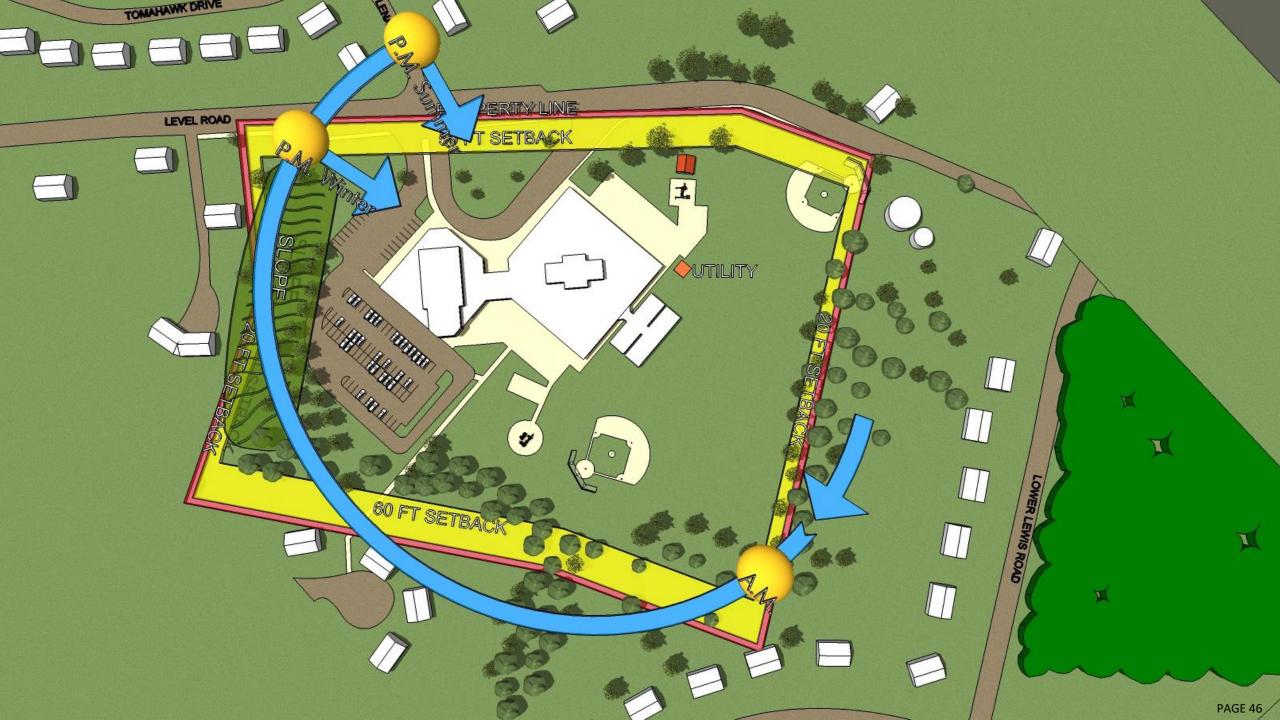
SITE AND TRAFFIC ANALYSIS

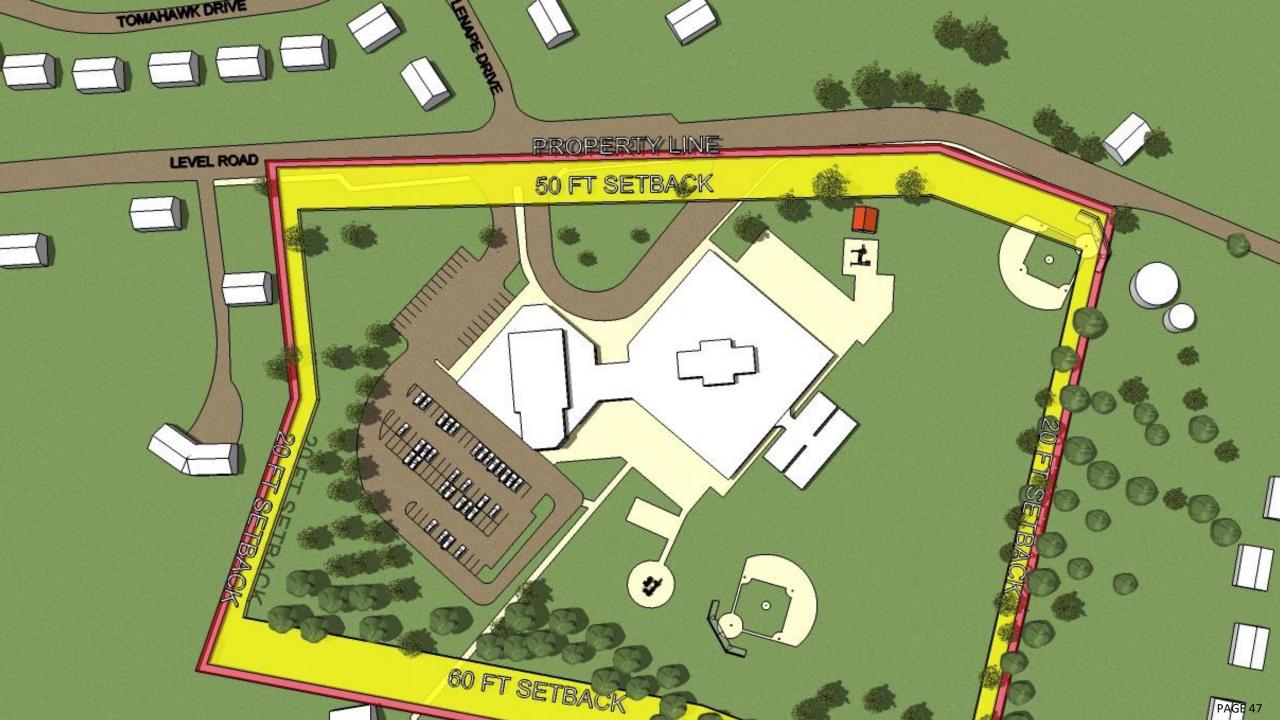


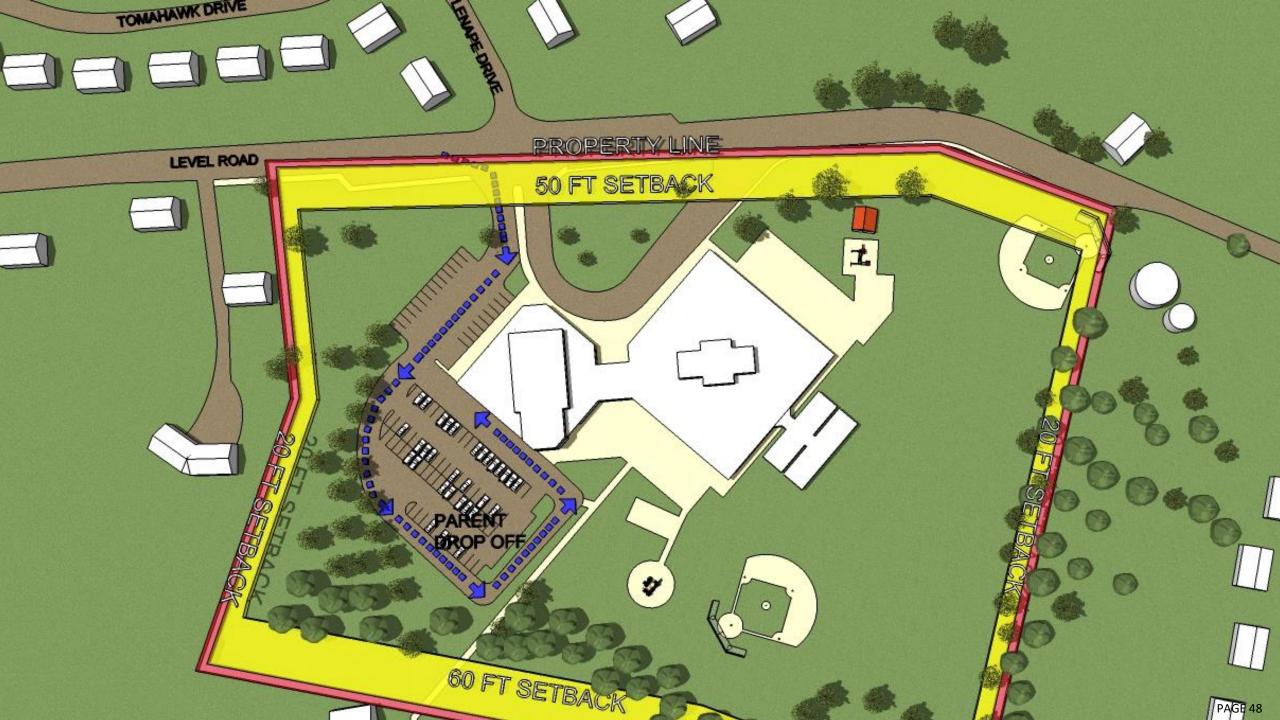


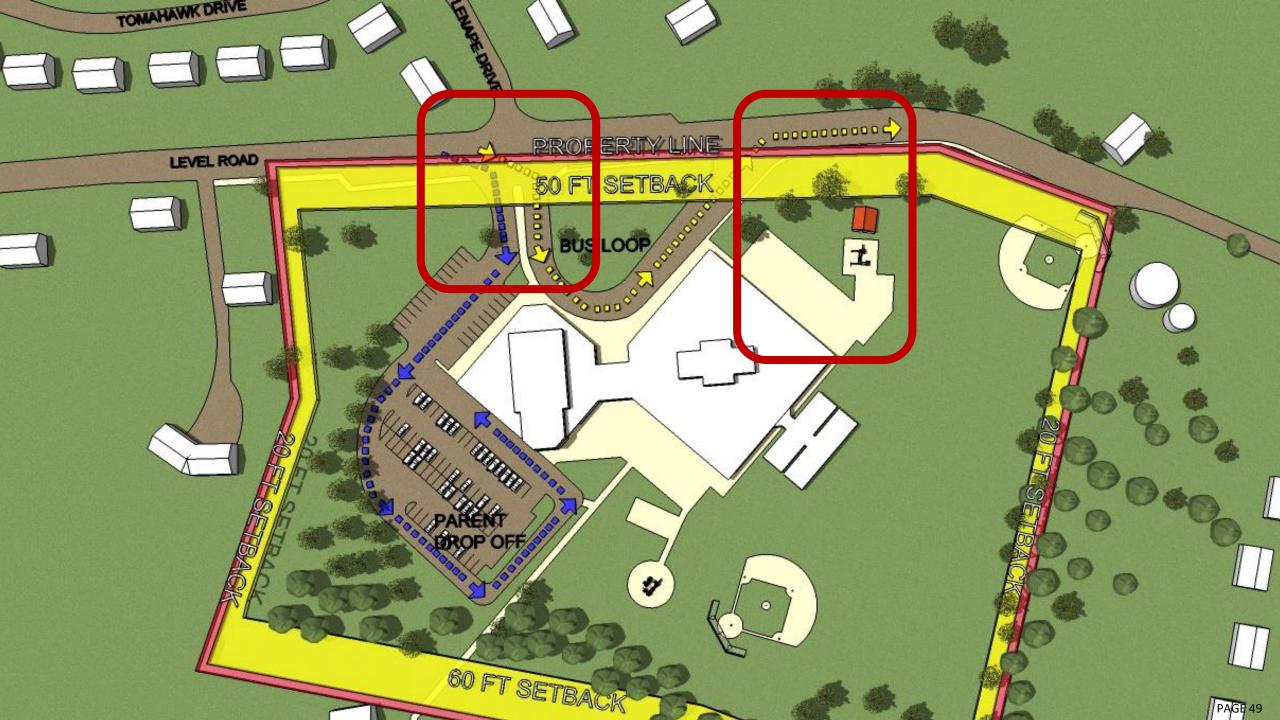












HOW DO WE MAKE THE CHANGE?

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RIDER & CORREL

BUILDING SITE TOURS FEEDBACK - CALEY

PROS

WELCOMING ENVIRONMENT

NATURAL LIGHT

LEARNING STAIRS – OPEN LEARNING

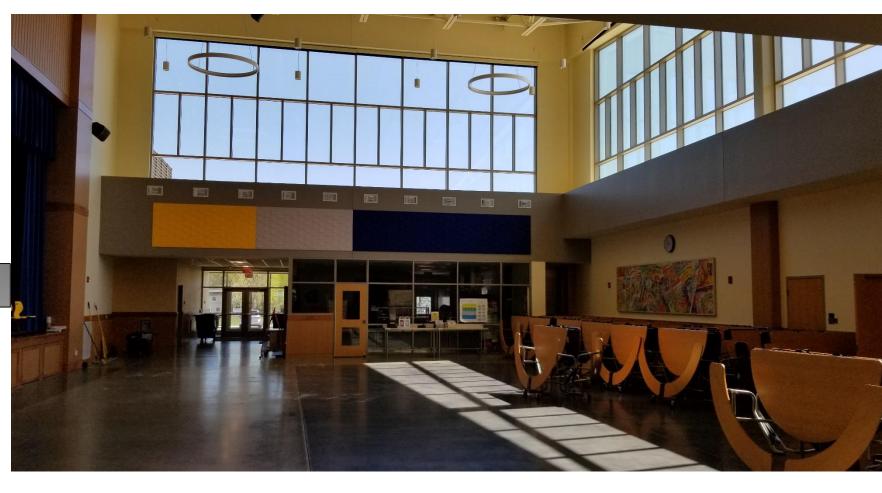
STUDENT LOCKERS IN HALLWAYS

CONS

APPEARED GRAND

CLASSROOMS TOO SMALL

LACKED CLOSETS IN CLASSROOMS





KINDERGARTEN SEPARATE

BUILDING SITE TOURS FEEDBACK - CALEY

PROS

WELCOMING ENVIRONMENT

NATURAL LIGHT

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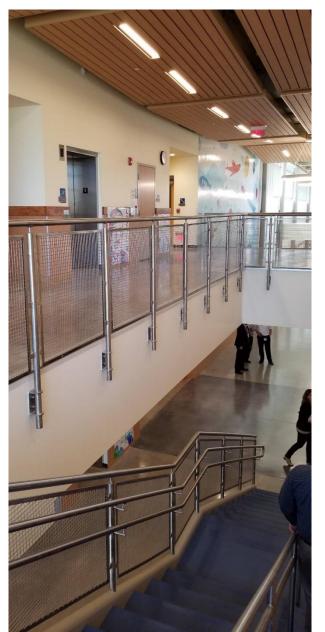
APPEARED GRAND

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KINDERGARTEN SEPARATE







PROS

NATURAL LIGHT

LEARNING STAIRS – OPEN LEARNING AREA

WELCOMING ENVIRONMENT

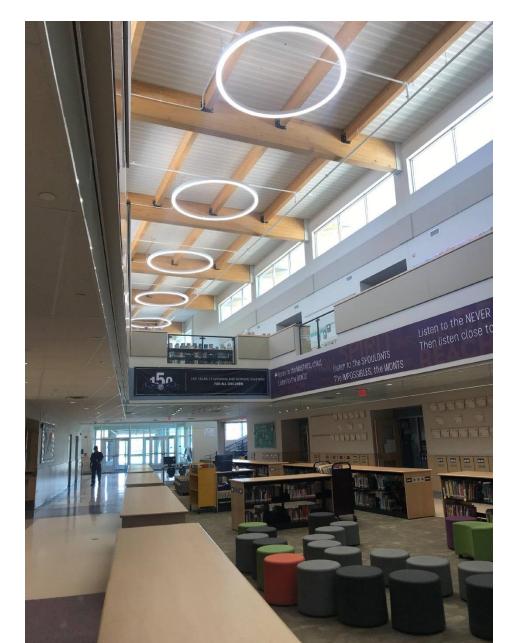
STUDENT LOCKERS IN HALLWAYS

CONS

OPEN LIBRARY AT ENTRANCE

OPEN CAFÉ TO LIBRARY

EXPOSED WIRING THROUGHOUT





PROS

NATURAL LIGHT

LEARNING STAIRS – OPEN LEARNING AREA

WELCOMING ENVIRONMENT

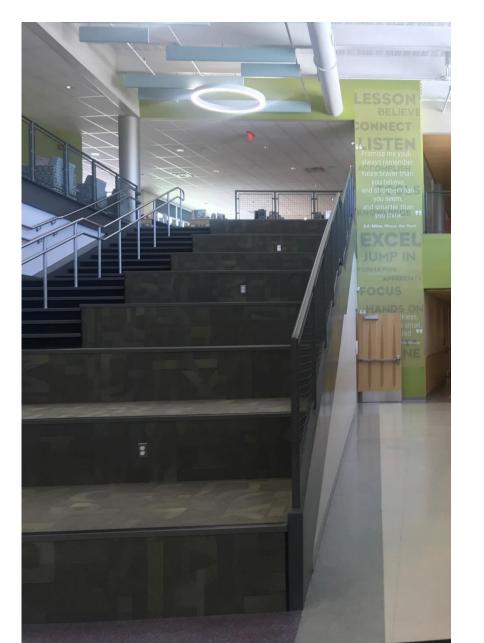
STUDENT LOCKERS IN HALLWAYS

CONS

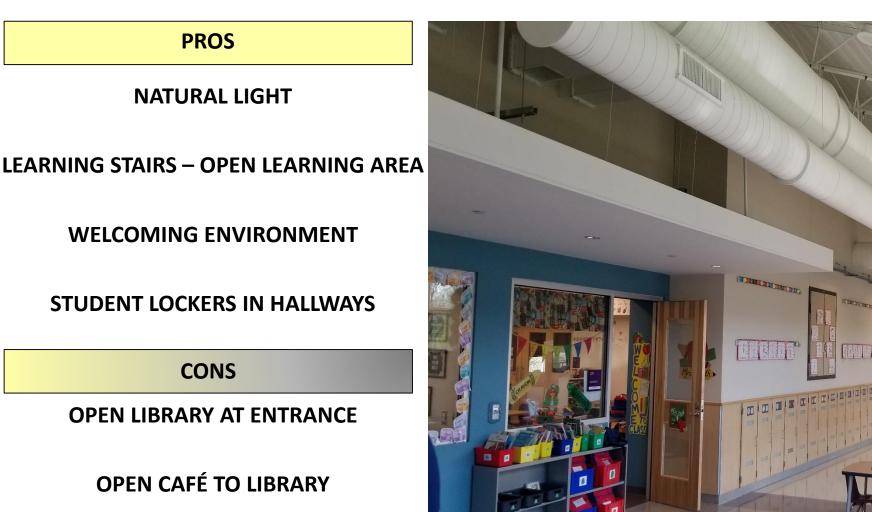
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EXPOSED WIRING THROUGHOUT

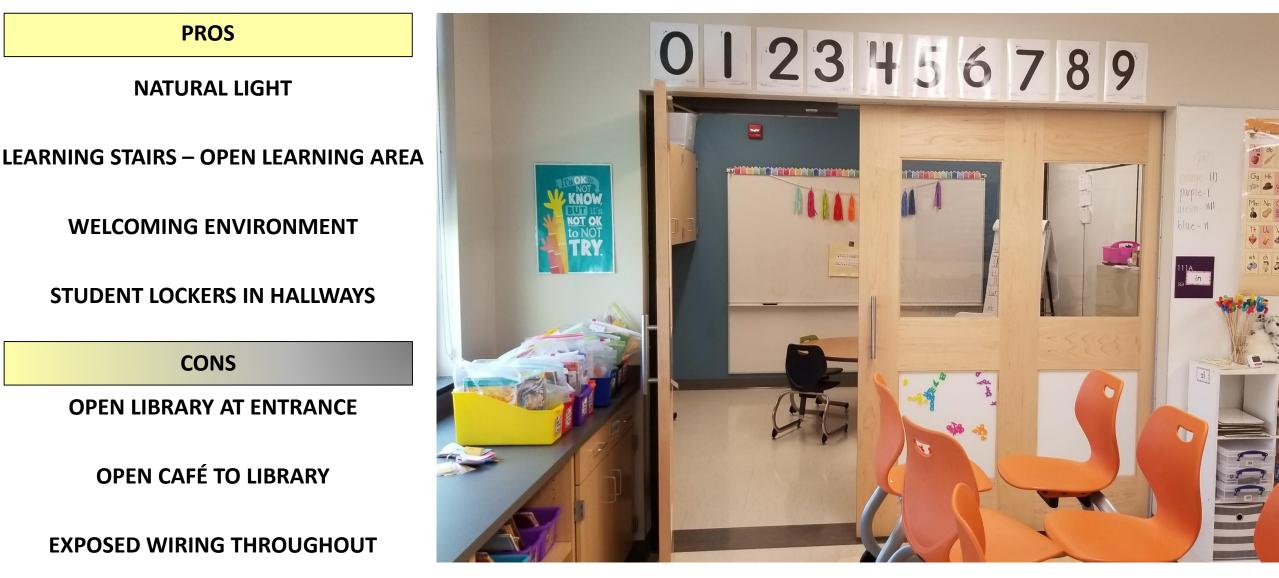






EXPOSED WIRING THROUGHOUT







BUILDING SITE TOURS FEEDBACK – EAST COVENTRY ELEM.

PROS

FRONT VESTIBULE

DOUBLE SIDED STAGE

LARGE VIDEO SCREEN IN CAFETERIA

MUSICAL STORAGE BY FRONT ENTRY

CONS

INSTITUTIONAL FEEL

SMALL WINDOWS

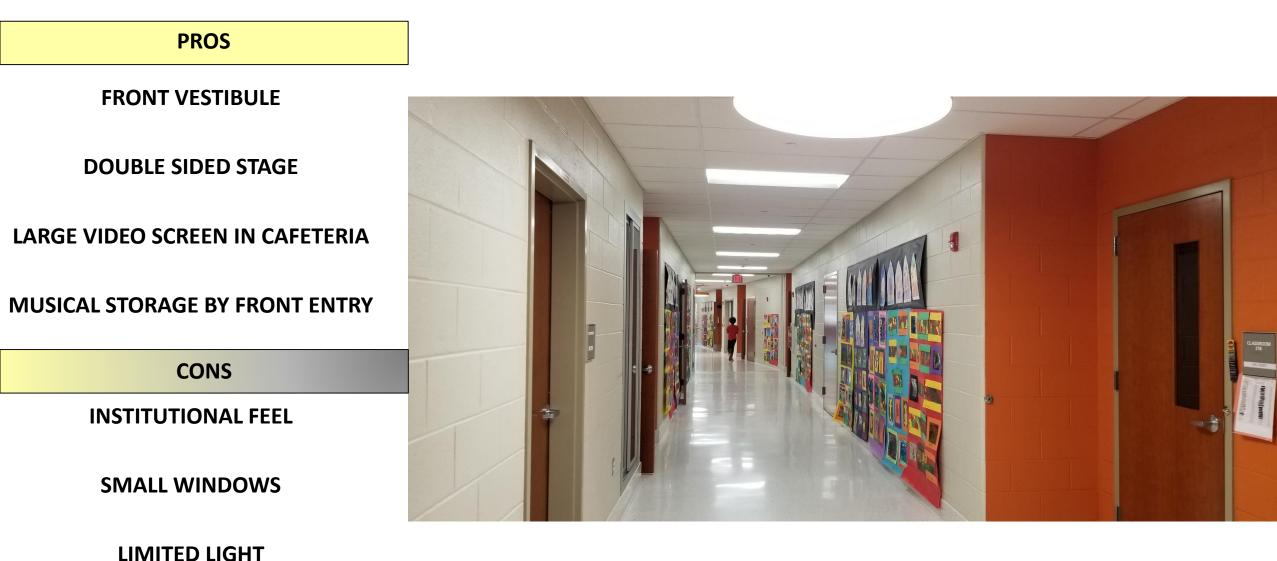
LIMITED LIGHT

"OLD SCHOOL" DESIGN





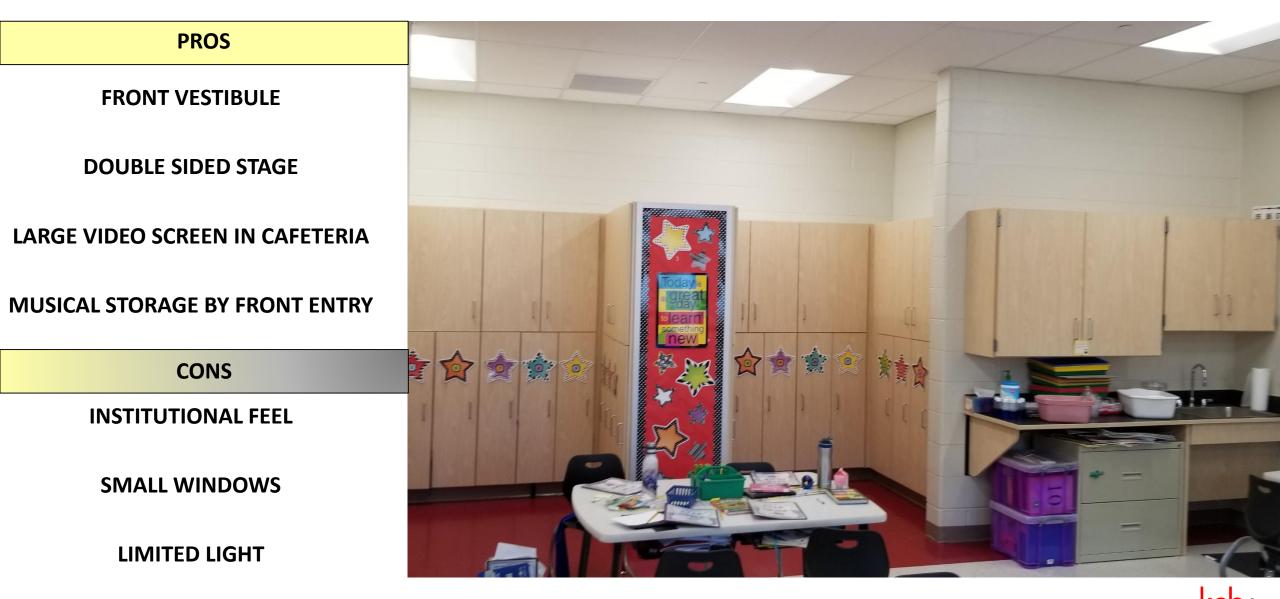
BUILDING SITE TOURS FEEDBACK – EAST COVENTRY ELEM.





"OLD SCHOOL" DESIGN

BUILDING SITE TOURS FEEDBACK – EAST COVENTRY ELEM.



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"OLD SCHOOL" DESIGN

Comments most heard – QUALITITES

WELCOMING

NATURAL LIGHT

OPENNESS - CONNECTIONS

SECURE AND ORGANIZED



Music:

1. Two instructional areas

- 1. Instrumental Music
- 2. General Music Instruction
- Ample storage needed
 Separate storage area for student instruments

4. Appropriate acoustics

Pickering Valley Elementary School, Downingtown Area School District



Art:

1. Large flexible project area

2. Storage for art supplies

3. Area for drying student work

Secured kiln room

5. Lighting options

Chester Charter School for the Arts

Library/Media Center: 1. Natural light in reading areas

2. Quiet places for reading

3. Active places for projects

4. Often includes computer lab

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5. Maker Space

6. TV Studio

Pfaff Elementary School, Quakertown Community School District

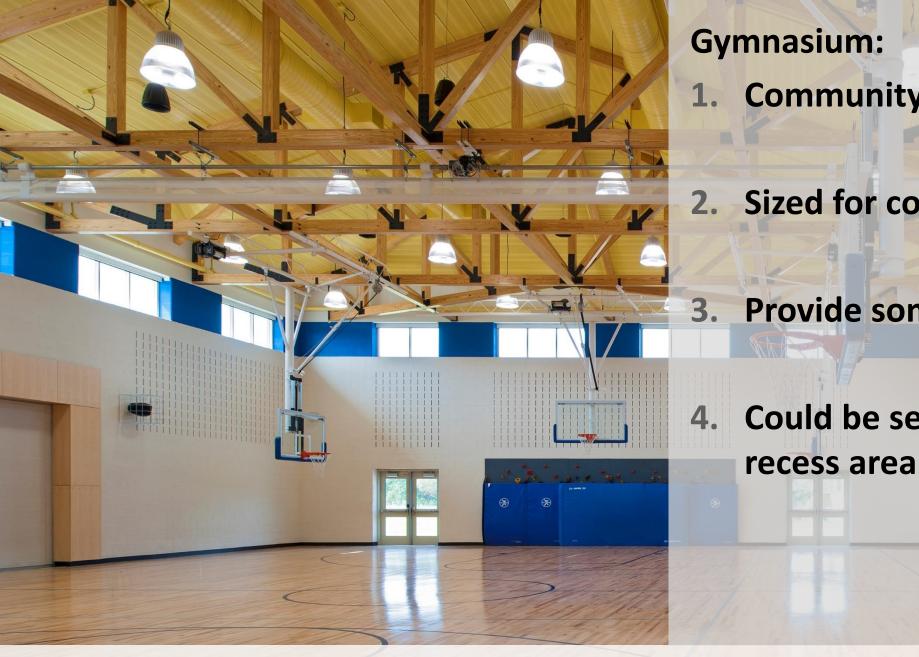


Hopewell Elementary School, Southern Lehigh School District

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Slatington Elementary School, Northern Lehigh School District PAGE 66



Gymnasium:

1. Community attribute

2. Sized for competition basketball

3. Provide some seating for parents

4. Could be separated for indoor

Hopewell Elementary School, Southern Lehigh School District PAGE 67



Renovation vs New Construction

Factors to Consider:

- Educational disruptions during construction
 - **Educational compromises**
 - Return on investment/long term value of either option

Cost of new vs renovation

Items needed for proper renovation:

1. New roof

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- 2. New windows
- 3. New interior partitions to create rectangular classrooms
- 4. Doors into classrooms
- 5. New technology in classrooms
- 6. New secure entry vestibule
- 7. New HVAC system
- 8. ADA compliant plumbing fixtures
- 9. New energy efficient lighting
- 10. Building expansion to meet needs11. Include 2016 FAS items

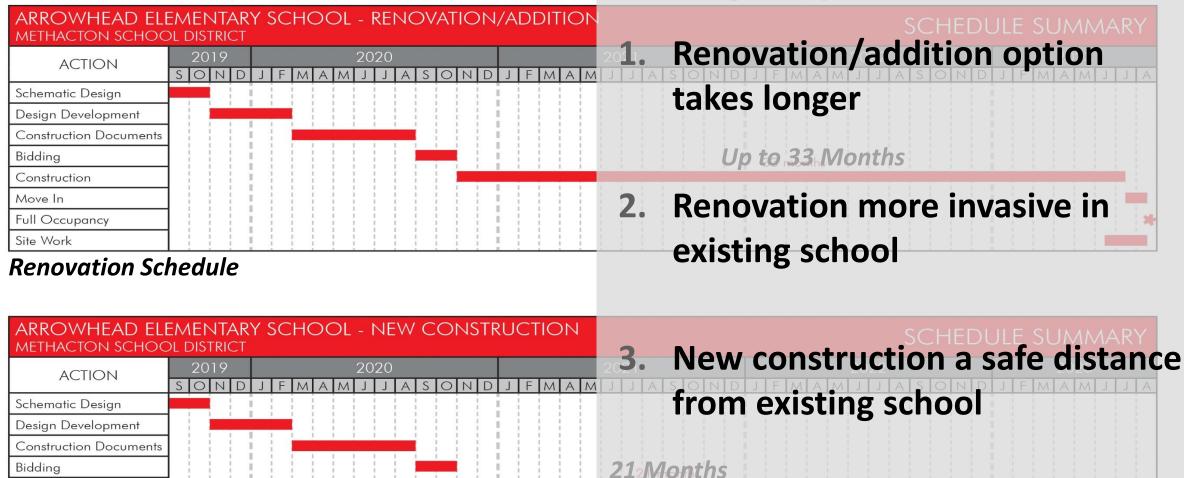
Energy Analysis Based on 58,534sf:

Annual energy costs for existing Arrowhead Elementary = \$75,000 (\$1.28 /square foot)

Typical renovated system = \$70,241 (\$1.20 /square foot) = \$4,759 annual savings

New efficient school = \$50,339 (\$0.86 /square foot) = \$19,902 annual savings

Potential Schedule for B Disruption During Construction:



 Site Work

 New Construction Schedule

Construction

Full Occupancy

Move In

during new construction

main entrance remain the same

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4. Vehicular traffic patterns and

Educational Program Analysis

	Existing Program					Developing Program			
	No.	NSF	Total	Remarks	No.	NSF	Total	Remarks	
ACADEMIC CENTER									
Core Programs									
Kindergarten	1	800	800	1/2 Day K	4	1,000	4,000	Includes dedicated toilet room	
Kindergarten		995	995	1/2 Day K					
First Grade	3	810	2,430	Avg. SF	4	850	3,400		
First Grade	1	940	940						
Second Grade	4	810	3,240	Avg. SF	4	850	3,400		
Third Grade	4	1,000	4,000	Avg. SF in modular trail	ors 4	850	3,400		
Fourth Grade	3	810	2,430	Avg. SF	4	850	3,400	2 Additional Classroom	
Fourth Grade	1	940	940						
Subtotal	18		15,775	Subto	tal 20		17,600	1,825sf Additional Area	
				ERESTEAD OF ACT OF SALES	28 2202001 1				
Other Student Services					<u></u> 18				
K-2 Learning Support	1	815	815	next to K	1	850	850		
3-4 Learning Support	1	890	890	next to read'g	1	850	850		
Emotional Support	1	837	837	next to lib. NOT A HOMER	<mark>м.</mark> 1	1,000	1,000	included de-escalation space	
K-2 Communications	1	856	856	next to admn	1	850	850	· · · · · · · · · · · · · · · · · · ·	
3-4 Communications]	790	790	next to 4th	1	850	850		
Reading Specialist	Ĩ	755	755	next to ELD	1	660	660		
English Learning Development	1	930	930	next to read'g	1	660	660		
K-4 Itinerant	1	935	935		1	660	660		
Gifted Math]	931	931		1	660	660	3 Additional Spaces	
Small Group Instruction	0	550	0		3	550	1,650	951sf Additional Area	
	9		7,739	Subto	tal 12		8,690	ULICE Additional Aroa	

Educational Program Analysis

	Existing Program				Developing Program			
	No.	NSF	Total	Remarks	No.	NSF	Total	Remarks
ADDITIONAL EDUCATIONAL SPACES								
ART AND MUSIC CENTER								
General Art Classroom	1	1,110	1,110	includes stor.	1	1,250	1,250	Includes Kiln Area & Storage
General Music Classroom	1	1,041	1,041	2	1	900	900	
Instrumental Music Classroom	1	309	309	behind stage	1	1,100	1,100	Includes Shared Instrument Storage
TECHNOLOGY CENTER								
Library/Literacy Center	1	2,266	2,266	includes instruction room	1	1,800	1,800	Includes Office & Storage
STEM Lab	0	1,400	0		1	1,400	1,400	<u> </u>
STEM Classroom	0	850	0	currently in library space	1	850	850	
TV Studio	0	550	0		1	550	550	
SCHOOL COMMONS								
Gymnasium/Multi-purpose	1	2,383	2,383		1	6,000	6,000	
Gym Office	1	176	176		1	200	200	
Gym Storage	0	300	0	combined with office	1	300	300	<u>да —</u> л.
Stage	1	650	650		1	750	750	
Cafeteria	1	2,192	2,192		1	2,600	2,600	4 lunch periods
Kitchen and Storage	1	1,506	1,506		1	1,500	1,500	1 serving lines
Before/After Program/Storage	1	0	0		1	300	300	
Subtotal	10		11,633		14		19,500	3 Additional Edu
								- 5 Auditional Luu
								spaces



Educational Program Analysis



Right Sizing the Box...

Existing Building = 52,534sf without modular classrooms

= **58,534sf** with modular classrooms

Net Area Needed:

(2) Additional Classrooms = 1825sf

(3) Additional Small Group Instruction = 951sf *some spaces reduced in size

(4) Additional Common Edu. Spaces = 7867sf *includes new gymnasium

Additional Administration Spaces = 2194sf

Total = 12,837sf addition req'd to meet needs *81,664sf total gross area programmed for 464 students

RENOVATION/ ADDITION

OPTION

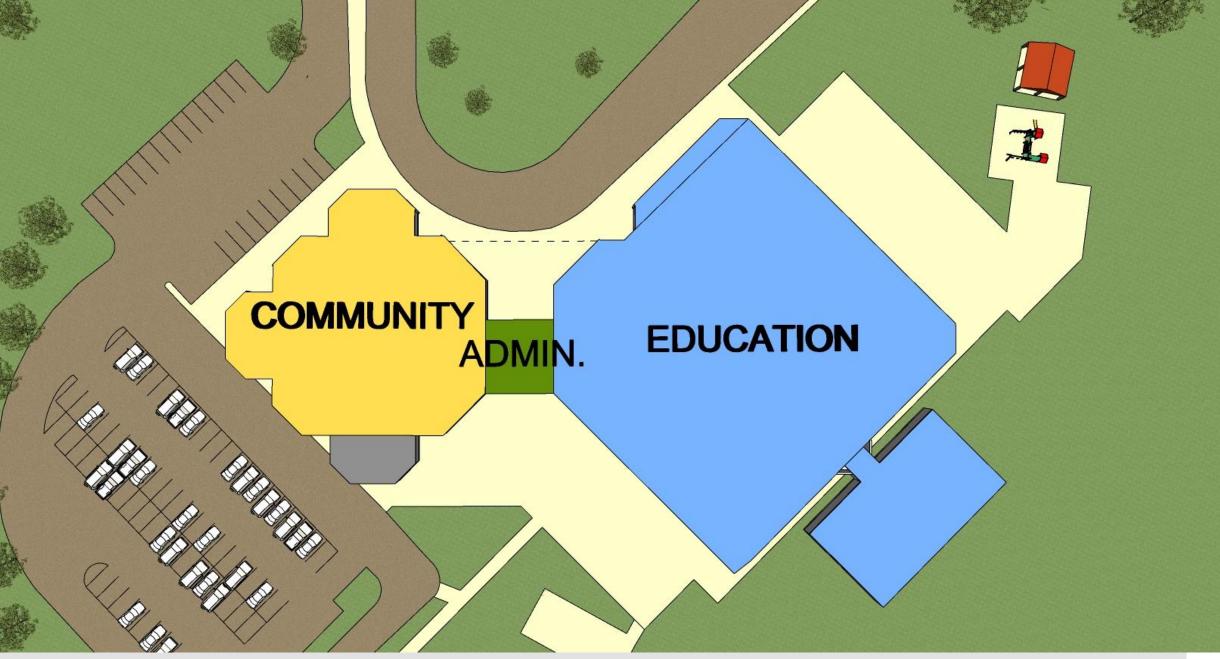


Concerns with existing layout:

- Classroom sizes too small
- Teachers struggle with room shape
- Lack of Small Group Instruction
- Lack of exterior access for windows
- Modulars past their anticipated life
- Administration area disconnected from secure entry vestibule
- Gym/Cafeteria combo too small
- Instrumental Music in storage room

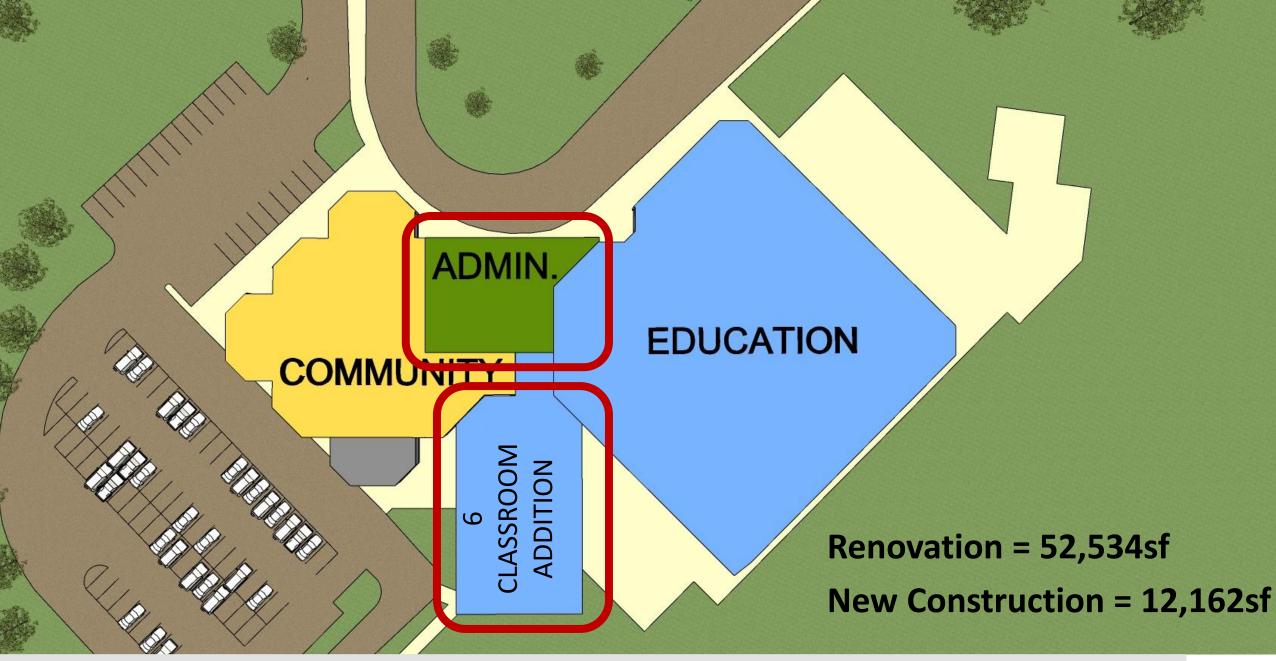
EXISTING FLOOR PLAN (58,534sf school with modulars)





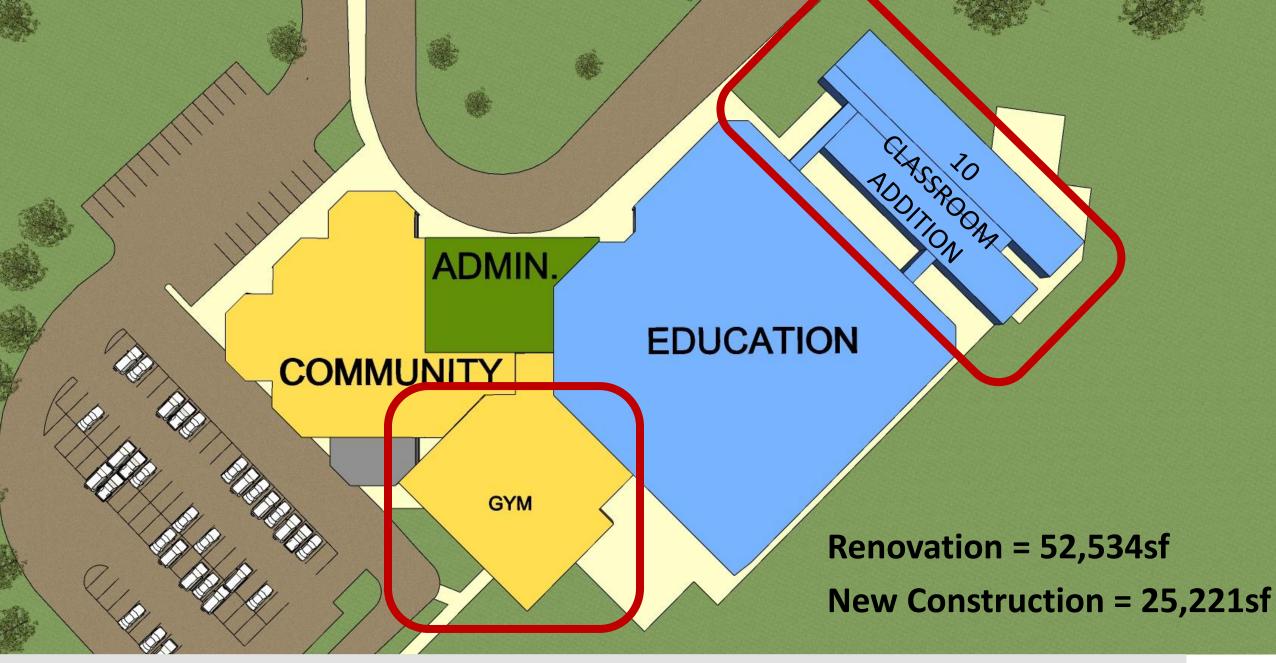
EXISTING FLOOR PLAN (58,534sf School with modulars)





RENO+ADD OPT. #1 FLOOR PLAN – 525 Students (64,696sf School)





RENO+ADD OPT. #2A FLOOR PLAN – 525 Students (77,755sf School)





RENO+ADD OPT. #2B FLOOR PLAN – 625 Students (85,504sf School)





Renovation Summary:

- Improved entry security
- New classrooms created
- 2A/2B Options opportunity for community gym
- Existing classrooms still not ideal shape/proportion
- New classroom wing located away from core of school
 - Not all spaces located or sized as desired
- Limited site improvements



RENO+ADD OPTION #1 – CAPACITY 525

NEW SECURE ENTRY, REPLACE MODULAR CLASSROOMS, FULL DAY K

Building Renovations (\$141/sf)				\$7,397,158
Building Systems Budget (\$85/sf)			\$4,465,390	
Proposed New Construction (12,162sf @ \$2	75/sf)			\$3,344,550
Site Work associated with New Construction	ı			\$1,204,038
Design/Bidding Contingency - 5%				\$820,557
	ΤΟΤΑ	L CONSTRUC	FION COST	\$17,231,693
Construction Contingency - 10%				\$1,723,169
Soft Costs - 15% (Fees, Permits, etc.)				\$2,584,754
Budget: FF&E Allowance (\$1200/student)				<u>\$630,000</u>
		TOTAL PRO	JECT COST	<mark>\$22,169,616</mark>

INCLUDES: ROOF REPLACEMENT, REPLACEMENT OF MOST BUILDING SYSTEMS (INCLUDING SPRINKLER SYSTEM) + SECURITY CAMERAS. ALONG WITH NEW SECURE FRONT ENTRANCE AND CLASSROOM ADDITION.



RENO+ADD OPTION #2A – CAPACITY 525

OPTION #1 AS WELL AS GYMNASIUM AND LARGER EDUCATIONAL ADDITION

Building Renovations (\$141/sf)			\$7,397,158
Building Systems Budget (\$85/sf)			\$4,465,390
Proposed New Construction (25,221sf @ \$2	275/sf)		\$6,935,775
Site Work associated with New Construction	n		\$2,496,879
Design/Bidding Contingency - 5%			\$1,064,760
	TOTAL CON	STRUCTION CO	ST \$22,359,962
Construction Contingency - 10%			\$2,235,996
Soft Costs - 15% (Fees, Permits, etc.)			\$3,353,994
Budget: FF&E Allowance (\$1200/student)			<u>\$630,000</u>
	TOT	AL PROJECT CO	ST \$28,579,953

INCLUDES: ROOF REPLACEMENT, REPLACEMENT OF MOST BUILDING SYSTEMS (INCLUDING SPRINKLER SYSTEM) + SECURITY CAMERAS. ALONG WITH NEW SECURE FRONT ENTRANCE, CLASSROOM ADDITION TO CLOSER MEET EDUCATIONAL PROGRAM, AND A NEW GYM.



RENO+ADD OPTION #2B – CAPACITY 625

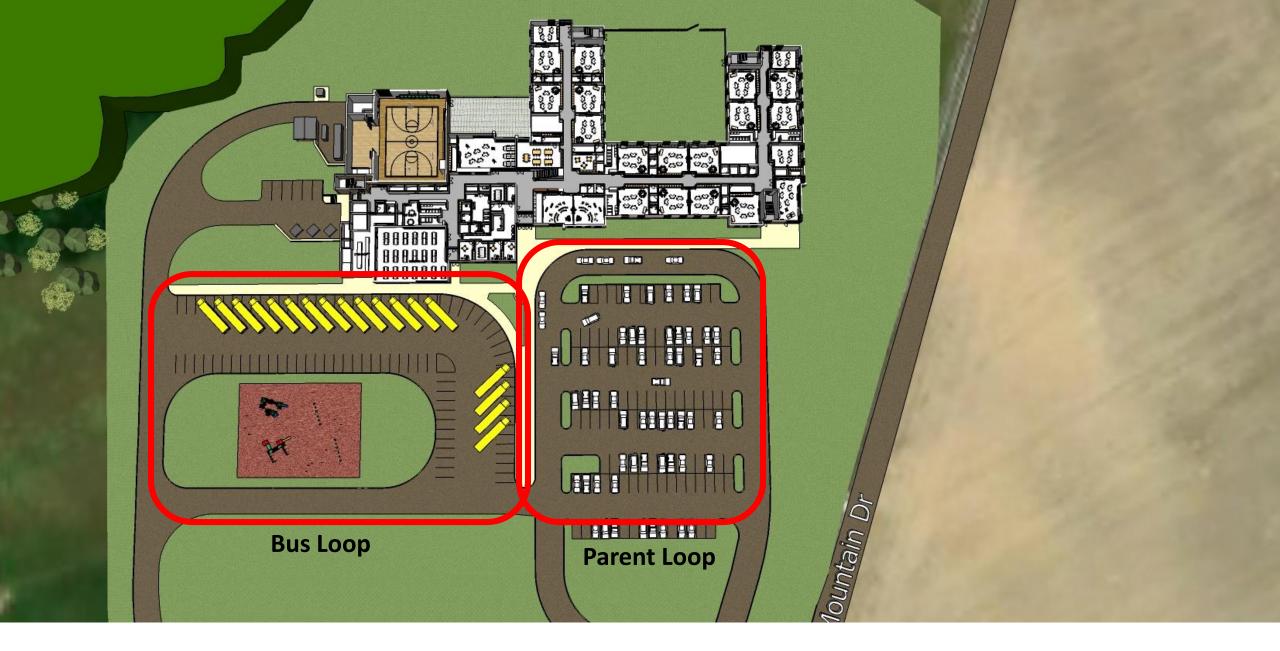
OPTION #1 AS WELL AS GYMNASIUM AND LARGER EDUCATIONAL ADDITION

Building Renovations (\$141/sf)				\$7,397,158
Building Systems Budget (\$85/sf)				\$4,465,390
Proposed New Construction (32,970sf @ \$2	275/sf)			\$9,066,750
Site Work associated with New Constructio	n			\$3,264,030
Design/Bidding Contingency - 5%				\$1,209,666
	ΤΟΤΑ	L CONSTRUC	TION COST	\$25,402,994
Construction Contingency - 10%				\$2,540,299
Soft Costs - 15% (Fees, Permits, etc.)				\$3,810,449
Budget: FF&E Allowance (\$1200/student)				<u>\$750,000</u>
		TOTAL PRC	JECT COST	<mark>\$32,503,743</mark>

INCLUDES: ROOF REPLACEMENT, REPLACEMENT OF MOST BUILDING SYSTEMS (INCLUDING SPRINKLER SYSTEM) + SECURITY CAMERAS. ALONG WITH NEW SECURE FRONT ENTRANCE, CLASSROOM ADDITION TO CLOSER MEET EDUCATIONAL PROGRAM, AND A NEW GYM.



EXAMPLES OF NEW ELEMENTARY SCHOOLS











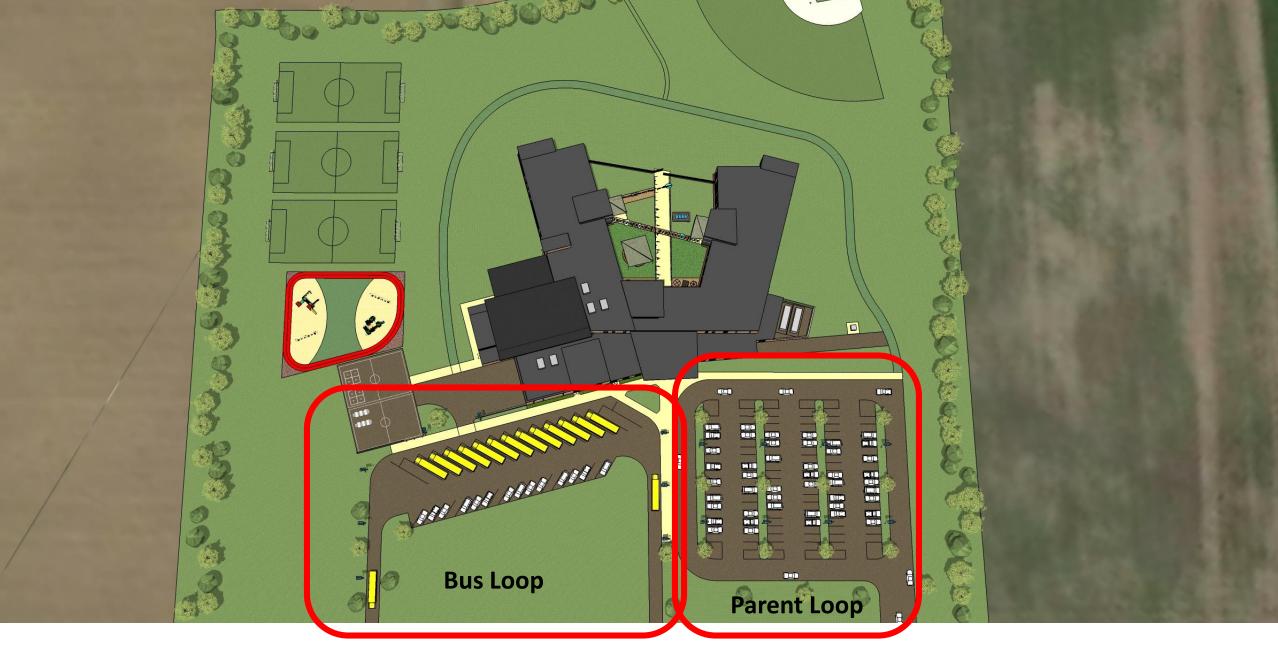


















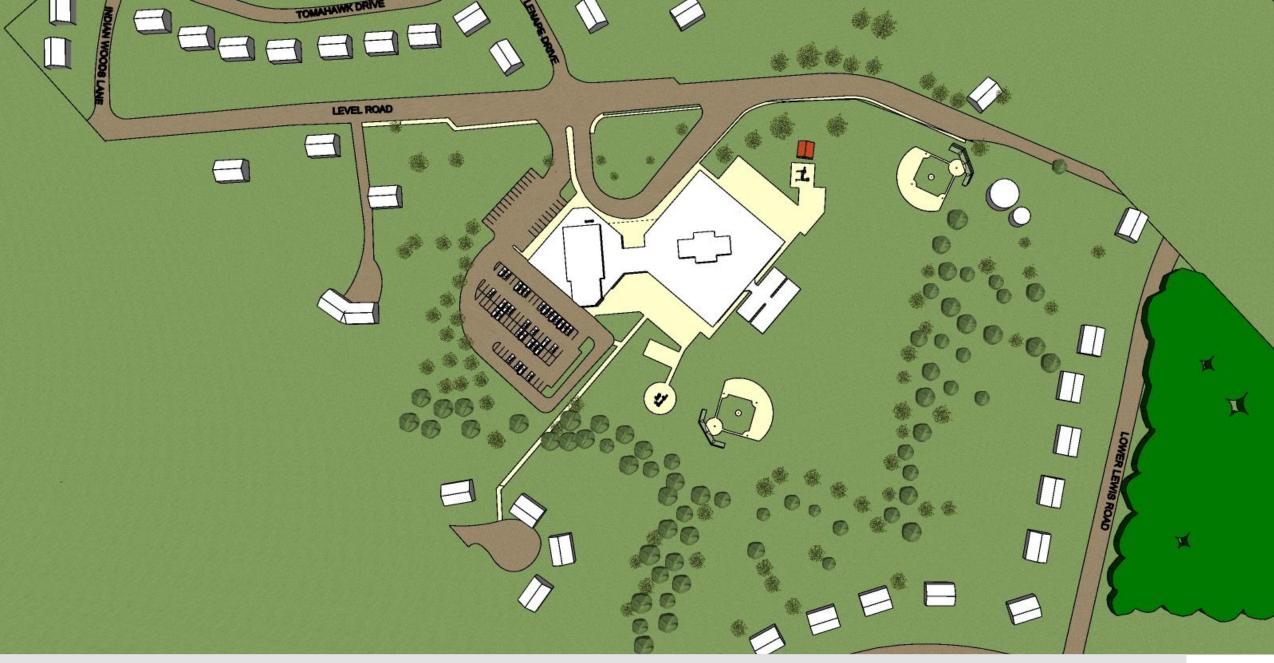












EXISTING SITE PLAN



EXISTING SITE – PROPERTY LINE

TOMAHAWK DRIVE

LEVEL ROAD

PROPERTY LINE

4

1

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mini

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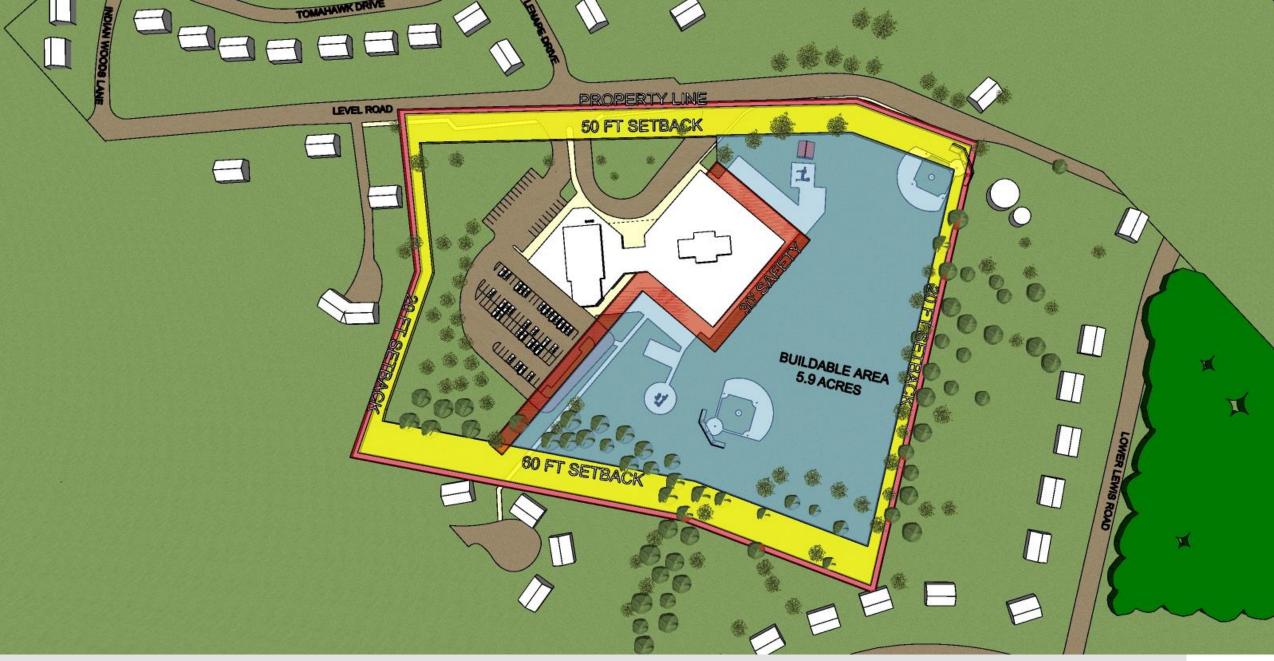


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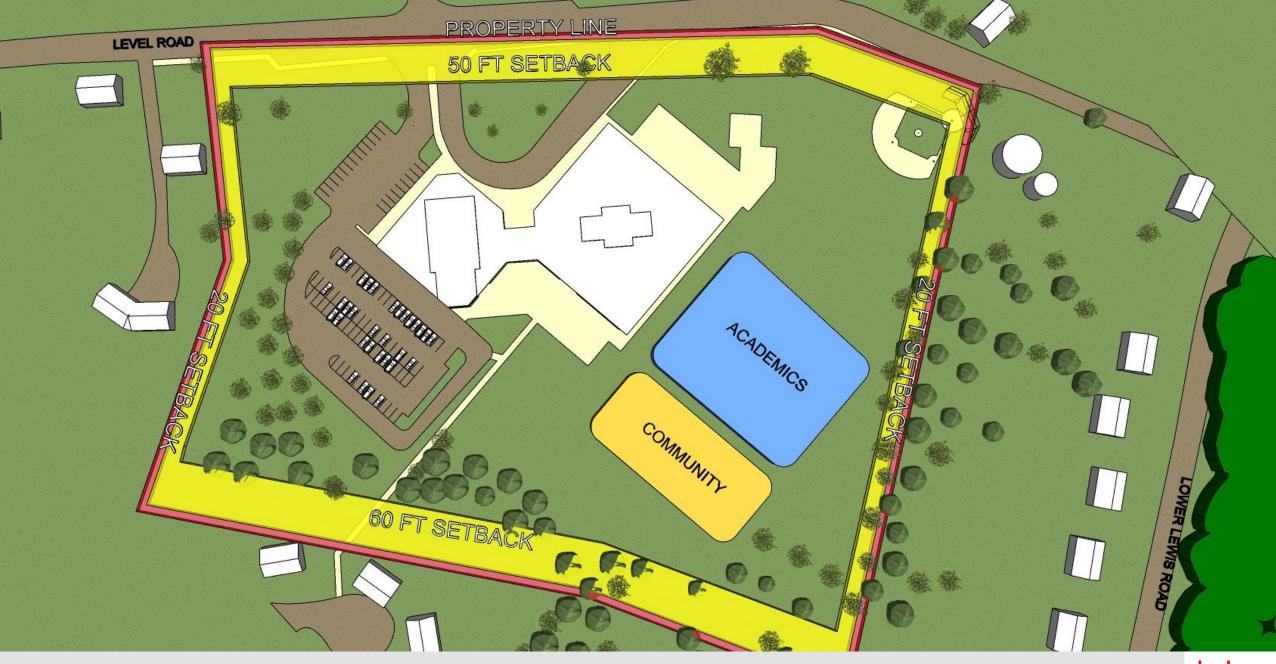
EXISTING SITE - SETBACKS



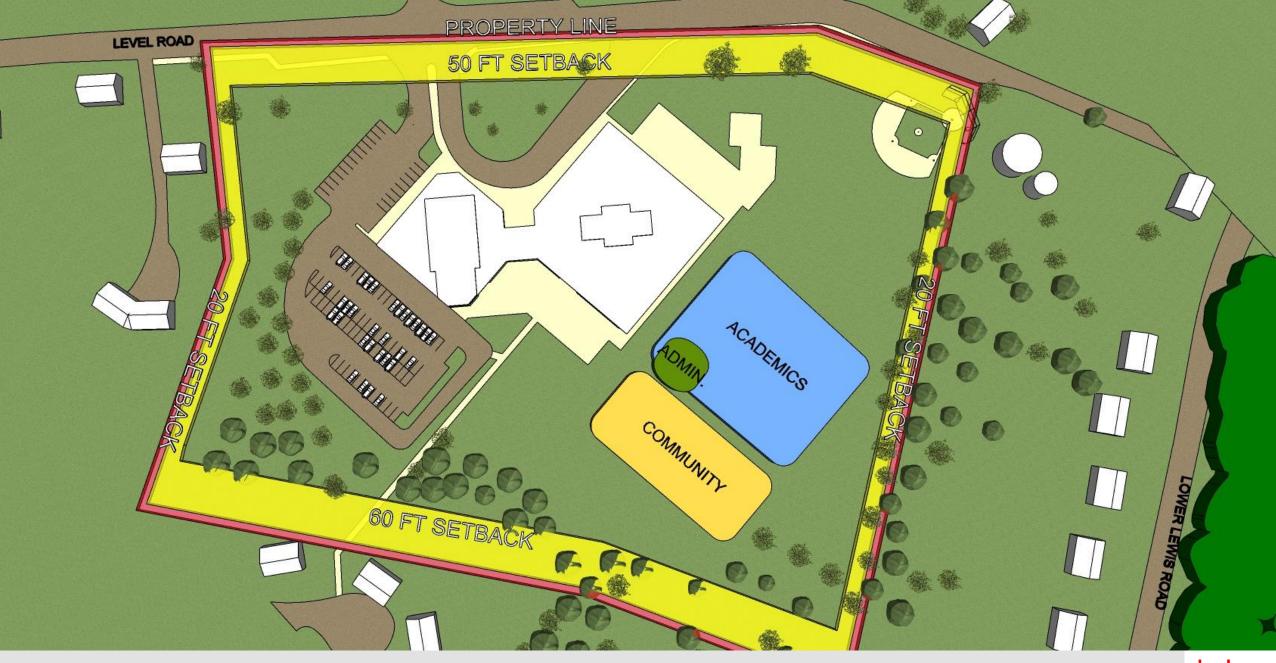


SITE BUILDABLE AREA





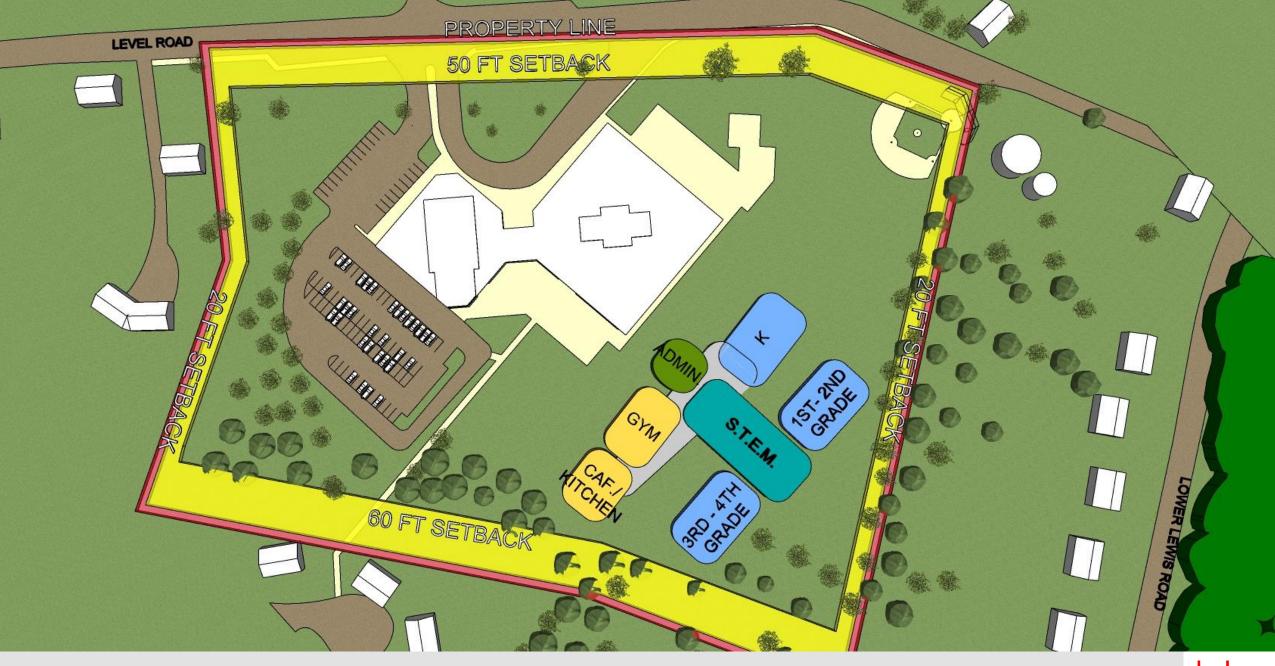




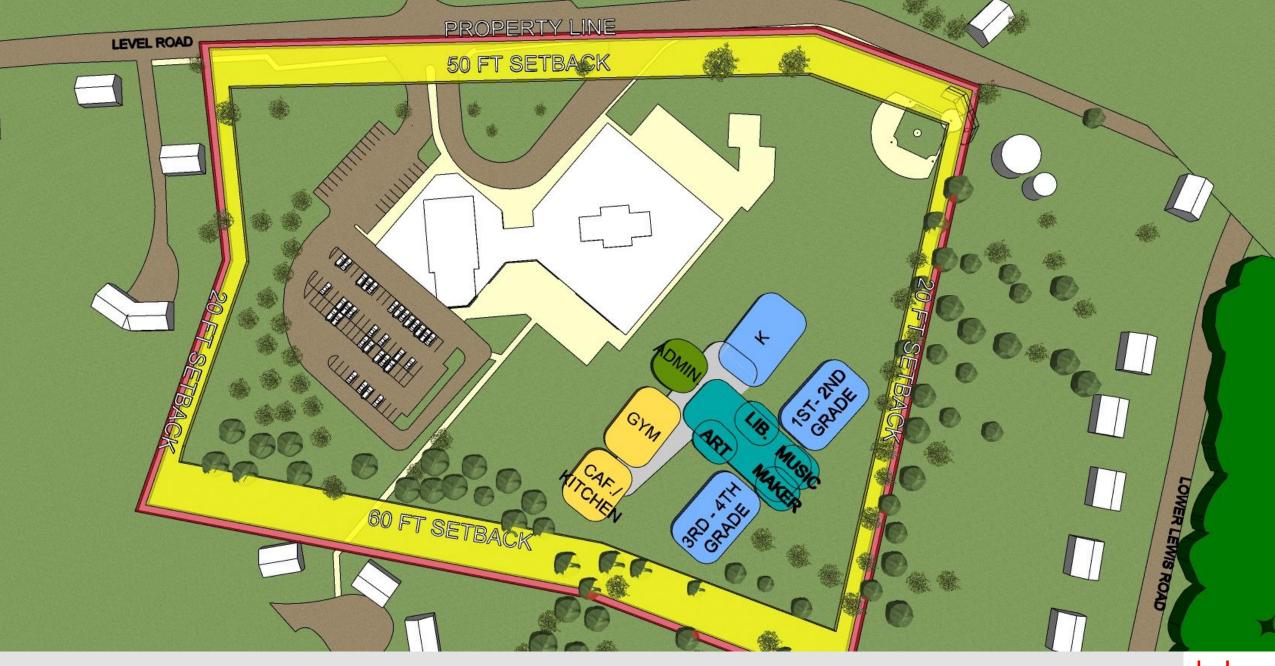




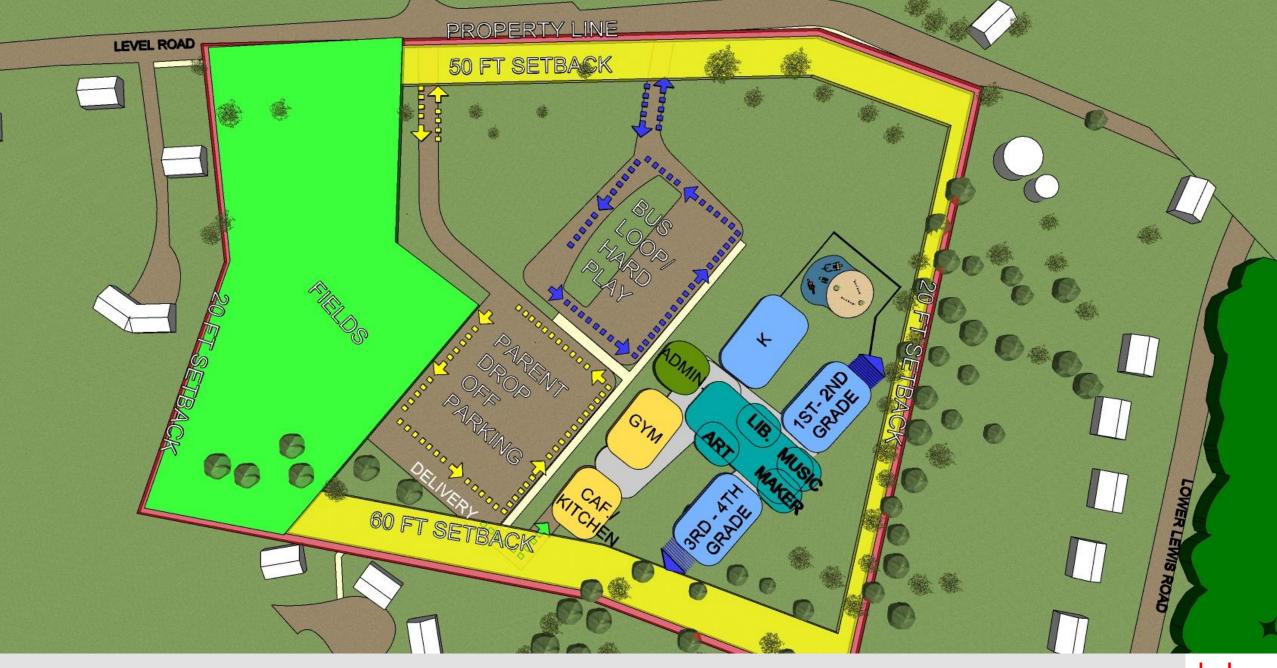














LEHIGH ELEMENTARY SCHOOL

School District

Northampton Area School District

Grades	Size	Number of Students		
K-5	97,580 SF	750		
Rid Data	Building Bid Cost	Site Bid Cost		

Bid Date March 12, 2019

Building Bid Cost Sife Bid Cost \$25,022,229 \$4,287,697



\$256 per square foot

LYNNEWOOD ELEMENTARY SCHOOL

School District School District of Haverford Township

0 1

<mark>Grades</mark>	<mark>Size</mark>	Number of Students
K-5	89,650 SF	700
<mark>Bid Date</mark>	Building Bid Cost	Site Bid Cost
March 29, 2019	\$21,712,520	\$4,844,980



• \$242 per square foot

UWCHLAN HILLS ELEMENTARY SCHOOL

School District

Downingtown Area School District

Grades	<mark>Size</mark>	Number of Students
K-5	76,235 SF	600
<mark>Bid Date</mark>	Building Bid Cost	Site Bid Cost
February 21, 2019	\$20,525,900	\$3,700,000



\$269 per square foot



NEW SCHOOL OPTION – CAPACITY 525

Proposed New Construction (81,664sf @ \$270/sf)			\$22,049,280	
Site work required for new construction (18	Site work required for new construction (18%)		\$3,968,870	
Demo of existing school building (52,534sf @	@ \$8/sf)			\$420,272
Design/Bidding Contingency - 3%				\$793,153
	ΤΟΤΑΙ		ION COST	\$27,231,575
Construction Contingency - 5%				\$1,361, 579
Soft Costs - 13% (Fees, Permits, etc.)				\$3,540,105
Budget: FF&E Allowance (\$1200/student)				<u>\$630,000</u>
		TOTAL PRO	JECT COST	\$32,763,259

NEW CONSTRUCTION \$4,183,306 MORE EXPENSIVE THAN RENO+ADD OPTION #2A (14% DELTA)



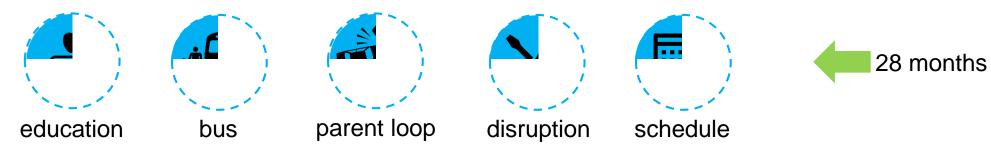
NEW SCHOOL OPTION – CAPACITY 625

Proposed New Construction (88,704sf @ \$270/sf)			\$23,950,080	
Site work required for new construction (189	Site work required for new construction (18%)			\$4,311,014
Demo of existing school building (52,534sf @	🗩 \$8/sf)			\$420,272
Design/Bidding Contingency - 3%				\$860441
	ΤΟΤΑ	L CONSTRUC [®]	TION COST	\$29,541,807
Construction Contingency - 5%				\$1,477,090
Soft Costs - 13% (Fees, Permits, etc.)				\$3,840,435
Budget: FF&E Allowance (\$1200/student)				<u>\$750,000</u>
		TOTAL PRO	JECT COST	<mark>\$35,609,333</mark>

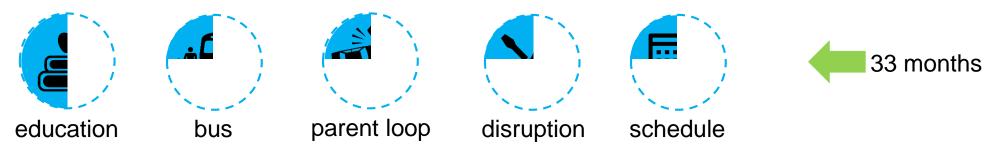
NEW CONSTRUCTION \$3,105,590 MORE EXPENSIVE THAN RENO+ADD OPTION #2B (9.5% DELTA)



Reno+Add Option #1 = \$22.2 M



Reno+Add Option #2A = \$28.6 M



New School Construction = \$32.7 M

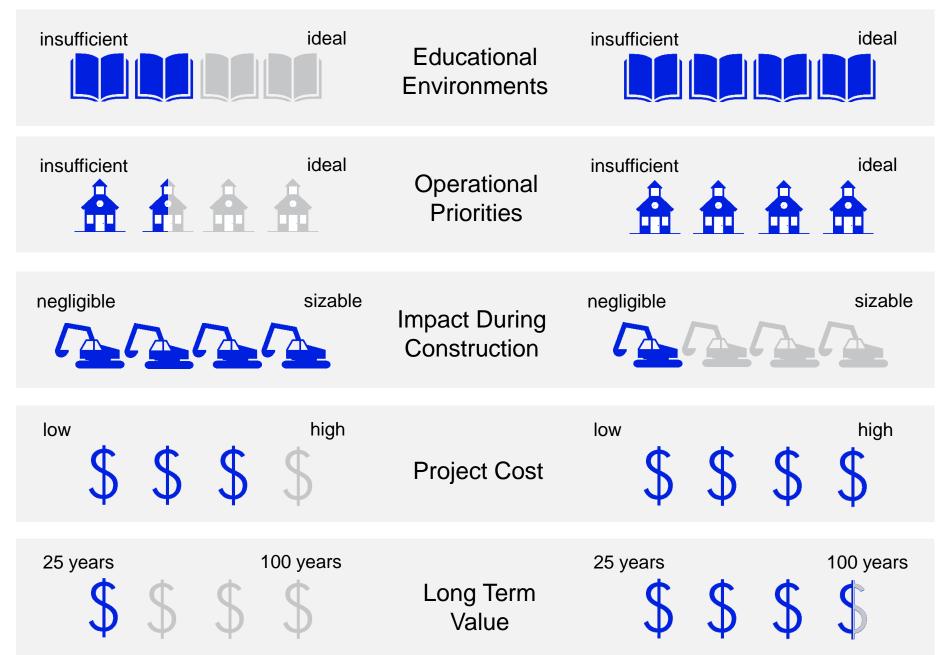


Comparative Analysis – Renovation or New Construction: 525 Student Options



RENOVATION

NEW CONSTRUCTION





BALANCE

BALANCE

OUTCOME

BALANCE

OUTCOME

INVESTMENT

Recommendations

- 1. Not recommended to renovate or expand the existing school building
 - **Far too many modifications needed to justify expenditures**
- 2. Build a new school building behind existing school
- 3. Design the school for a capacity of 625 to accommodate future growth
 - Bid the project with alternate to reduce 4 classrooms (525 capacity)
- 4. Release presentation and solicit feedback from the public
- 5. Continue with Preliminary Design of new school this summer for board review and approval in August 2019

COLLABORATIVE PROCESS

Potential Schedule for Collaborative Design Process

