

Crabtree, Rohrbaugh & Associates

WILSON SCHOOL DISTRICT FACILITY STUDY UPDATE March 18, 2019

## EDUCATIONAL PROGRAM & VISIONING

## **GUIDING PRINCIPLES**

## **ENROLLMENT AND CAPACITY**

## FACILITY ASSESSMENTS

## TIMELINE



## NOW

- Flexibility
- Flexible Spaces Dynamic and Interactive
- Personalized Learning

## THEN

- Assumes all teachers teach the same way
- Assumes all students learn the same way
- Fixed spaces -"Factory" Model
- Focus on standardized testing

### EDUCATIONAL PROGRAM

Sub-Total (sq. ft.)

4,800

7,600

16,900

29,300

10,000

3,600

1,200

1.800

16,600

56,400

19,800

1,600

77,800

5,600

3,450

600

9,650

16,900

7,500

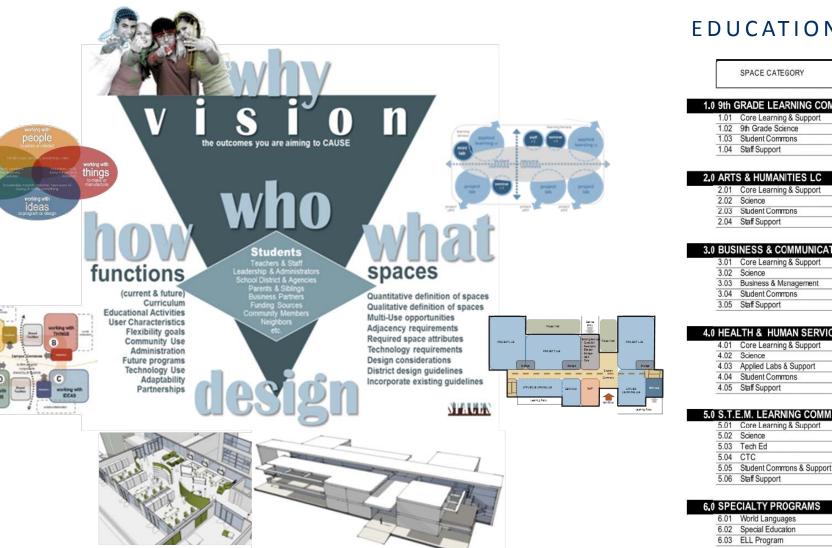
24,400

2,800

2,000

4,800

12,200 1,800 14,000



PROCESS

#### EDUCATIONAL PROGRAM

	Net Area		-
	Sub-Total	SPACE CATEGORY	
	(sq.ft.)		
MMUNITY		7.0 VISUAL & PERFORMING ARTS	_
	13.800	7.01 Visual Arts	
	6,100	7.02 Performing Arts: Music	_
	2,700	7.02 Performing Arts: Music 7.03 Performing Arts: Theater	_
	2,700	7.03 Performing Aris. meater Sub-Total:	
Sub-Total:	24,840		_
	- 10 (0	8.0 LIBRARY, LE & TECHNOLOGY	
		8.01 Library/Media Resources	
	12,100	8.02 Learning Enrichment	
	6,100	8.03 TE/Media Communications	_
	2,700	8.04 Technology Support	
Sub-Total:	2,240	Sub-Total:	_
L	23,140	9.0 PHYS ED, HEALTH & ATHLETICS	-
TONS LC		9.01 Physical Instruction	_
	12,100	9.02 PE/Athletics: Support	-
	6,100	9.03 PE/Athletics: Amenities	-
	5,000	Sub-Total:	
	2,700		_
	2,240	10.0 ADMIN & STUDENT SERVICES	
Sub-Total:	28,140	10.01 Administration	-
CES LC		10.02 Student Services	
JES LU	10.100	10.03 Health Office	_
	12,100	Sub-Total:	_
	6,100 10,120	11.0 STUDENT COMMONS / DINING	-
	2,700		
	2,700	11.01 Dining Commons	
Sub-Total:	33,260	11.02 Kitchen & Servery Sub-Total:	_
The second P	35,200	Sub-Total:	-
UNITY		12.0 BUILDING SERVICES	
	12,100	12.01 Custodial Support	-
	6,100	12.02 Building Services	
	5,200	Sub-Total:	-
	15,600		
	4,800	13.0 DELTA PROGRAM	
Sub-Total:	3,520 47,320	13.01 Delta Program	
	47,520	13.02 Delta Support Spaces	
		Sub-Total:	_
L	10,700		
	5,150		
	900		

RESULT

16,750

Sub-Total:

### DEVELOP AN EDUCATIONAL PROGRAM THAT IS SUPPORTED BY THE BOARD

### GUIDING PRINCIPLES

#### STAKEHOLDER GROUPS

#### DISTRICT ADMINISTRATION

we must be connected collaboration is very important our buildings should celebrate the arts we must teach the whole child embrace the maker movement students should be critical thinkers

#### ELEMENTARY ADMINISTRATION

collaboration is key blended learning embrace the maker movement teachers should be mentors schools should be learning tools specials should be at core of curriculum critical thinking is key

#### STUDENTS

learning happens everywhere smaller group / class size =in-depth learning need more outdoor learning hands on learning is better

#### PARENTS

learning happens outside of the classroom differentiated learning is important STEM is important smaller is better teaming is good

#### SCHOOL BOARD

Wilson SD should be model for teaching and learning student safety is important languages should be priority at elementary level buildings should meet 21<sup>st</sup> Century learning needs more collaborative learning spaces buildings should connect students to nature curb appeal is important

#### **BUSINESS LEADERS**

curb appeal is important problem solving is important foreign Language is important the arts are important Wilson SD plays a part in regional growth embrace diversity

### GUIDING PRINCIPLES

#### STAKEHOLDER GROUPS

connected collaboration celebrate the arts maker movement critical thinkers collaboration blended learning maker movement mentors learning tools critical thinking

in-depth learning outdoor learning hands on learning

differentiated learning STEM model for teaching and learning student safety languages should be priority 21<sup>st</sup> Century learning collaborative learning spaces connect students to nature curb appeal curb appeal problem solving foreign Language arts are important

## GUIDING PRINCIPLES

#### STAKEHOLDER GROUPS

connected collaboration

celebrate the arts

maker movement critical thinkers

collaboration blended learning maker movement mentors learning tools

critical thinking

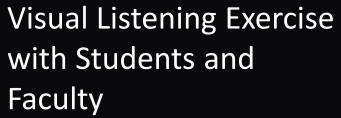
in-depth learning outdoor learning hands on learning

differentiated learning STEM model for teaching and learning student safety languages should be priority 21<sup>st</sup> Century learning collaborative learning spaces connect students to nature curb appeal curb appeal problem solving foreign Language arts are important









VISIONING EXERCISE



- No PRIVACY 704 DELAN Culture in the



with Students and

16





- Student Activity - Court & MATON

6

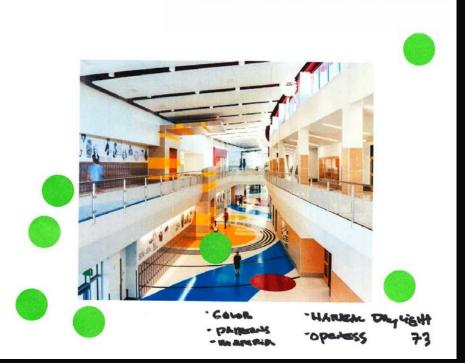
40

## VISIONING EXERCISE

## Visual Listening Exercise with Students and Faculty



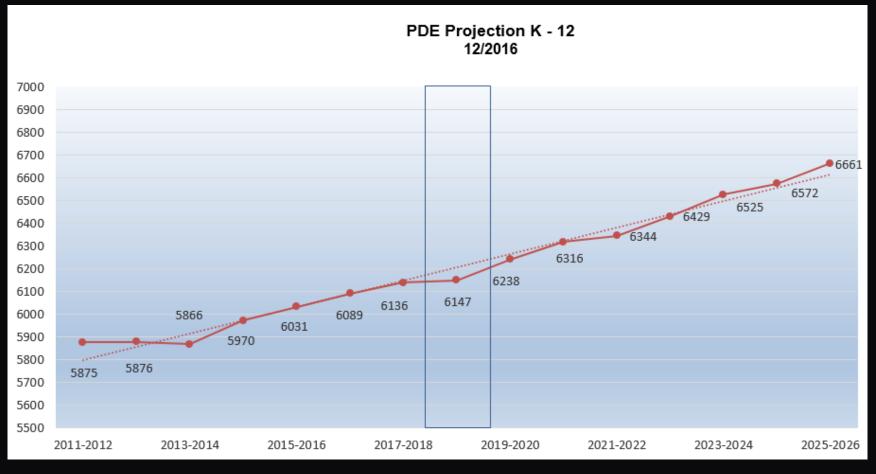
- OPENS - OPPOLITUM EN SOCIALISATION



5

## ENROLLMENT ANALYSIS

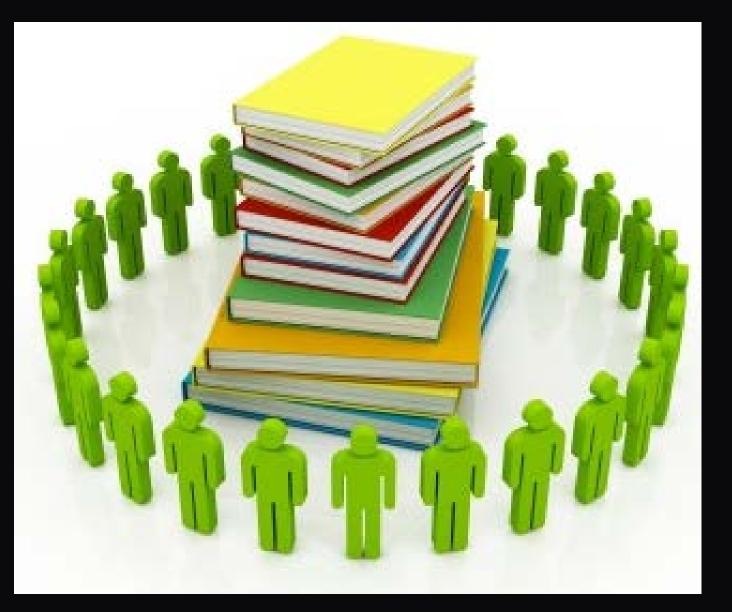
#### Source: PA Department of Education 12/2016 Wilson School District



What are the different methods of projecting enrollment?

What are the trends within the district?

What is a reliable projection?



## CAPACITY ANALYSIS

How many students can each building accommodate?

Is there adequate space for support programs?

Are collaborative learning spaces planned?

Do we have room to grow and offer new programs?

What is the recommended utilization rate for each building?

## FACILITY CONDITION ASSESSMENT

Crabtree, Rohrbaugh & Associates - Arch	nitects	S		5	SCAL		DESCRIPTION	FCI %		TIMELINE
401 East Winding Hill Road Mechanicsburg, PA 17055				5		NEW	New or like-new condition; Reevaluate in 8 - 10 years	91% - 100%		8-10 YRS.
Maryland • Pennsylvania • Virginia • West Virginia				4	G	OOD	Minimal wear for age, no issues	61% - 90%		6-8 YRS.
DRAFT				3		FAIR	Average wear for age, approaching end of lifecycle	31% - 60%		4-6 YRS.
Wilson School District				2	Р	OOR	Worn from use or age, end of expected lifecycle	16% - 30%		2-4 YRS.
Wilson High School				1	CRIT	ICAL	Extremely worn or damaged, replace as soon as possi	0% - 15%		< 2 YRS.
FACILITY CONDITION INDEX (FCI	)   A	lsse	ess	ed I	DA	ΤE	ESTIMATED CONSTRUCTION COST			
Site	5	4	3	2	1	NA	Comments & Recommendations	Low	to	High
1 Perimeter Fencing & Gates						•	None on site.	\$0.00	-	\$0.00
2 Athletic Fields			•				Uff-site football field, baseball field and tennis courts are in good condition	\$0.00	-	\$0.00
3 Athletic Field Structures, Scoreboards			•				Bleachers, scoreboard and conession stands are in good condition for their current use.	\$0.00	-	\$0.00
4 On-Site Sidewalks		•					Average wear for age.	\$0.00	-	\$0.00
5 Play Equipment						•	Play equipment adjacent to High Scheel responsibility of the township.	\$0.00	-	\$0.00
6 Paving			•				Existing paving in ay need re-coated.	\$0.00	-	\$0.00
7 Striping, Markings, Speed Bumps			•				township. Existing paving in Stripes - few yea Average EXAMPLE ay need re-coated. ider restriping in a	\$0.00	-	\$0.00
8 Curbing							Average Er	\$0.00	-	\$0.00
9 On-Site Signage		•					Clings on Jawy installed and new; consider marquee or directional Juge.	\$0.00	-	\$0.00
10 Exterior Furniture, Bike Racks, Storage						•	Exterior elements in athletic areas only, refer to athletic field structures above	\$0.00	-	\$0.00
11 Retaining Walls, Site Walls						•	none	\$0.00	-	\$0.00
12 Freestanding Walkway Canopies						•	none	\$0.00	-	\$0.00
							Subtotal	\$0.00	-	\$0.00
Site Accessibility	5	4	3	2	1	NA		Low	to	High
1 Pedestrian Access - ADA & Safety			•				School is located in an urban setting. Crosswalks are to be clearly indicated and maintained.	\$0.00	-	\$0.00
2 Vehicular Access - Vehicles					٠			\$0.00	-	\$0.00
3 Vehicular Access - Buses					٠		All three functions occur around the same neighborhood streets throughout the day. An official loading area does not exist. Buses	\$0.00	-	\$0.00
4 Vehicular Access - Deliveries					•		stack down the road.	\$0.00	-	\$0.00
5 Handicap Parking				•			handicap parking available; consider marking and signage to clearly indicate.	\$0.00	-	\$0.00

Evaluates and identifies building and site condition

## **Provides timeline for work**

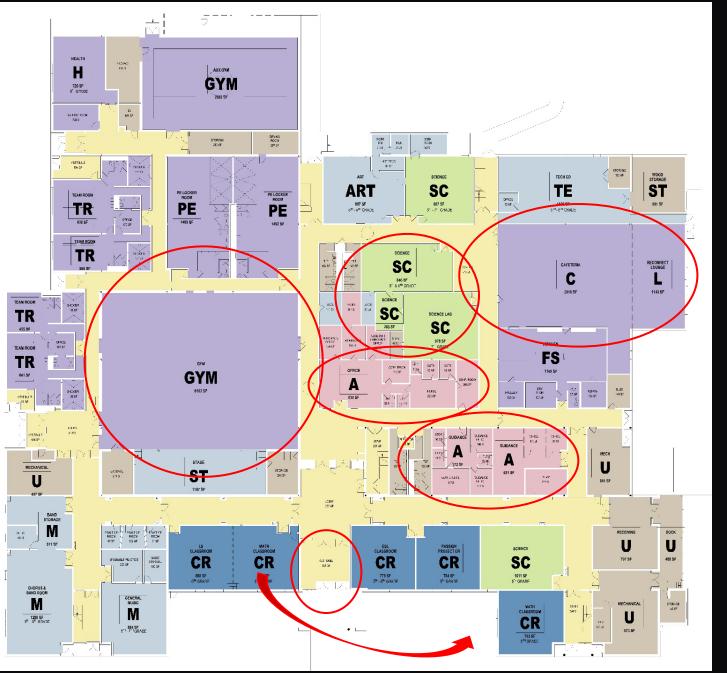
# Provides preliminary recommendation

# Assigns range of construction cost

## EDUCATIONAL SUITABILITY ASSESSMENT

CR	Crabtree, Rohrbaugh & Associates - Architects					SC/	ALE	DESCRIPTION
401 East Winding Hill Road Mechanicsburg, PA 17055							5	81% - 100% EXCELLENT
Maryland • Pennsylvania • Virginia • West Virginia						4	4	66% - 80% GOOD
	DRAFT					:	3	51% - 65% AVERAGE
Wilson	School District					1	2	36% - 50% BELOW AVERAGE
Wilson	High School					:	1	20 - 35% UNSATISFACTORY
EDUC	CATIONAL SUITABILITY ASSESSMENT (ESA)	)	As	ses	sec	d D	ATE	
Site								
55%	ESA Score	5	4	3	2	1	NA	Comments & Recommendations
1	Desirable separation of vehicular, bus and pedestrian				٠			
2	Opportunities provided for outdoor learning			•				
3	Outdoor athletics and playfields adequate in size and configuration		•					
4	Building easily identified with appropriate signage and community wayfinding				•			
General Building Function								
0%	ESA Score	5	4	3	2	1	NA	Comments & Recommendations
1	Interior circulation routes are wide enough to safely and							
1	effectively accommodate student movement							
	Community use areas area arranged so that the school							
2	can allow night functions without full school access							
	General appearance of the school evokes pride for the							
	students and community							
Core Academics & Support								
	ESA Score	5	4	3	2	1	NA	Comments & Recommendations
1	Pre-K and Kinder classrooms are adequately sized							
	Pre-K and Kinder classrooms have appropriate support							
2	such as restrooms and storage							
	Standard Classrooms are adequately sized							
	Standard Classrooms have appropriate support such as							
4	storage							

**Establish Educational Adequacy** Metric 21<sup>st</sup> Century Learning Parity / Equity Deficiencies **Review of all Education Spaces Documentation of ESA Score Basis for Educational** Improvements



## FACILITY ASSESSMENT EXAMPLE

Identify deficiencies:

Undersized spaces; cafeteria, gym

## Security & administration location

Building organization/adjacencies

Internal spaces w/o natural daylight

No sense of place...maze



## FACILITY ASSESSMENT EXAMPLE

Improvements:

Expand cafeteria & gym

**Relocate administration** 

Building organization/adjacencies

Learning stair

Team teaching/grade organization

**Comprehensive SCOPE VS. Scope determines budget EXAMPLES: Building reorganization New Ed Program additions** Address ALL site work items **Replace ALL: Interior finishes** Casework **Bldg. Envelope Replace ALL Mechanical/Elec. Systems** 4 Pipe System **Preferred ATC Controls Fully Air Conditioned New Lighting Fixtures** Lower Operating Costs

## FACILITY ASSESSMENT COSTS

Reduced SCOPE Budget determines scope

Maintain current organization Minor/ No new additions **Prioritize LDP approval Reduced replacement of finishes** Limited area **Prioritize by budget Upgrade Mechanical Systems** 2 Pipe or VAV System **Basic ATC Controls Limited Air Conditioning Retrofit Existing Lighting Higher Operating Costs** 

# TIMELINE

WILSON SCHOOL DISTRICT											
FACILITY STUDY PROCESS & OVERVIEW					20	19					
		Dec	Jan	Feb	Mar	Apr	May	Jun	July		
Communication											
Assemble Administrative Team											
Establish routine meeting schedule											
Identify work session and board meeting d	ates										
Community engagement approach											
Budget expectations											
Planning & Development											
District provide floor plans with current use											
District provides input on Educational suita	bility assessment										
Educational Programming											
Visioning exercise with students					TBD	TBD					
Discuss current model vs planned											
Develop planned educational program											
Discuss preferred utilization rates / thresholds											
Discuss limited vs comprehensive renovations approach											
Review enrollment information & establish planning number											
Analysis											
Perform Facility Condition Assessment											
Perform building capacity analysis											
Determine current utilization rates vs planned ed program											
Determine building deficiencies; infrastruct											
Preliminary operational savings analysis											
Recommendations											
Design concepts to address enrollment & p		n							L	-	
Costs to upgrade facility to current constru	ction standards									-	
Costs to identify ed program deficiencies											
Preliminary schedule of projects; design & construction											
Discuss pros and cons of options											
									Decise	0 1 1	
Design & Regulatory Approvals										8-11 mo	
Construction (depends upon size & scope)									Constru	iction 12	24 months

# **Questions?**



Crabtree, Rohrbaugh & Associates www.cra-architects.com