

FACILITY STUDY PROCESS





Develop Options Recommendations

INFORMATION GATHERING & ANALYSIS

- EDUCATIONAL PROGRAM
- EXISTING BUILDING CAPACITIES
- EDUCATIONAL & FUNCTIONAL DEFICIENCIES
- PROJECTED ENROLLMENT
- EXISTING FACILITY CONDITIONS
- COST TO UPGRADE TO CURRENT STANDARDS

GOALS & OBJECTIVES

MASD GOALS & OBJECTIVES

- Provide equity among elementary grade students.
- Improve the existing facility infrastructure at Loyalsock Valley Elementary School and Lyter Elementary School.
- Improve the efficiency and consistency of resources and continuity of educational delivery.
- Provide 21st Century educational spaces and experiences at the Middle School and Elementary Schools that reflect the curriculum.
- Address safety and security concerns at Loyalsock Valley Elementary School
- Provide air conditioning at all schools.
- Develop fiscally responsible solutions that address costs of capital projects, transportation, staffing, and operations.

EXISTING BUILDING CAPACITY

Loyalsock Valley Elementary School

	LOYALSOCK VALLEY ELEMENTARY SCHOOL		
	No. of Rooms	PDE Unit FTE Cap	Sub-Total
Standard Classrooms	13	25	325
Unassigned Classrooms		25	0
Science Classrooms		25	0
Learning Support Classrooms	1		
Learning Support Small Group Intruction			
Special Education Classrooms	1		
Small Group Instruction	1		
Reading Support	1		
Computer Labs	1		
Music Classrooms	1		
Art Classrooms	1		
STEM Classroom			
Large Group Instruction			
Library	1		
Auditorium			
Gymnasium			
Cafeteria			
Multi-Purpose Room	1		
PDE Buildin	g Capacity:		325
Functional Building Capacity:		90%	293
Total 2019-20 Enrollment:			257

Lyter Elementary School

	LYTER ELEMENTARY SCHOOL		
	No. of Rooms	PDE Unit FTE Cap	Sub-Total
Standard Classrooms	21	25	525
Unassigned Classrooms	2	25	50
Science Classrooms		25	0
Learning Support Classrooms	1		
Learning Support Small Group Intruction			
Special Education Classrooms	1		
Small Group Instruction	3		
Reading Support	1		
Computer Labs	2		
Music Classrooms	1		
Art Classrooms	1		
STEM Classroom			
Large Group Instruction			
Library	1		
Auditorium			
Gymnasium			
Cafeteria			
Multi-Purpose Room	1		
PDE Buildin	PDE Building Capacity:		575
Functional Building Capacity:		90%	518
Total 2019-20 B	Enrollment:		440

C.E. McCall Middle School

	C.E. MCCALL MIDDLE SCHOOL			
Types of Educational Spaces	No. of Rooms	PDE Unit FTE Cap	Sub-Total	
Standard Classrooms	23	25	575	
Learning Support Classroom	2		0	
Learning Support Small Group Instruction	2		0	
Special Education Classroom	3		0	
Computer Labs		20	0	
STEM Classrooms	2	25	50	
Science Classrooms	2	25	50	
Science Labs	1	20	20	
Large Group Instruction			0	
Small Group Instruction			0	
Business Classroom		25	0	
Business Labs		20	0	
Art Classrooms	2	20	40	
Music Classroom	1	25	25	
Band Room		25	0	
Orchestra Room	1	25	25	
Choral Room		25	0	
Family Consumer Science Room	1	20	20	
Tech Ed / CTE Lab	2	20	40	
Library	1		0	
Gymnasium	1	66	66	
Auxiliary Gymnasium	1	33	33	
Weight/Fitness Room	1		0	
Wrestling Room	2		0	
Cafeteria	1		0	
PDE Buildin	g Capacity:		944	
Functional Buildin	g Capacity:	85%	802	
Total 2019-20 E	Enrollment:		643	

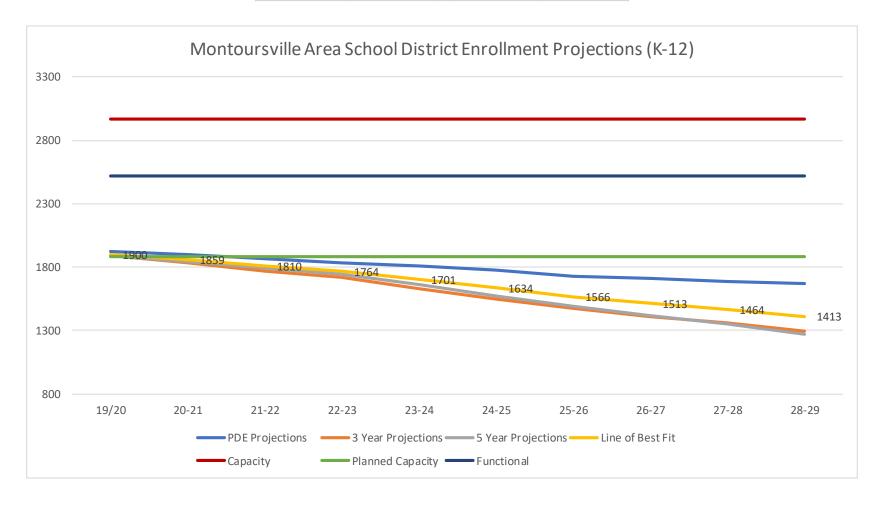
Montoursville Area High School

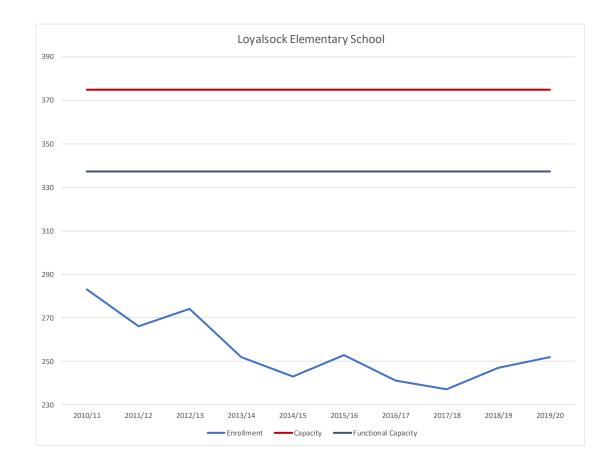
	MONTOURSVILLE AREA HIGH SCHOO		
Types of Educational Spaces	No. of Rooms	PDE Unit FTE Cap	Sub-Total
Standard Classrooms	23	25	575
Learning Support Classroom	23	23	373
Learning Support Small Group Instruction	6		
Special Education Classroom	5		
Special Education Small Group Instruction			
Computer Labs	4	20	80
STEM Classrooms		25	0
Science Classrooms		25	0
Science Labs	7	20	140
Large Group Instruction	1		
Small Group Instruction			
Business Classroom		25	0
Business Labs	1	20	20
Art Classrooms	2	20	40
Music Classroom	1	25	25
Band Room	1	25	25
Orchestra Room		25	0
Choral Room	1	25	25
Family Consumer Science Room		20	0
Tech Ed / CTE Lab	3	20	60
Library	1		
Gymnasium	1	132	132
Auxiliary Gymnasium	1	33	33
Weight/Fitness Room	2		
Wrestling Room			
Cafeteria	1		
PDE Buildir	g Capacity:		1155
	Functional Building Capacity:		924
Total 2019-20 I			610

PROJECTED ENROLLMENT

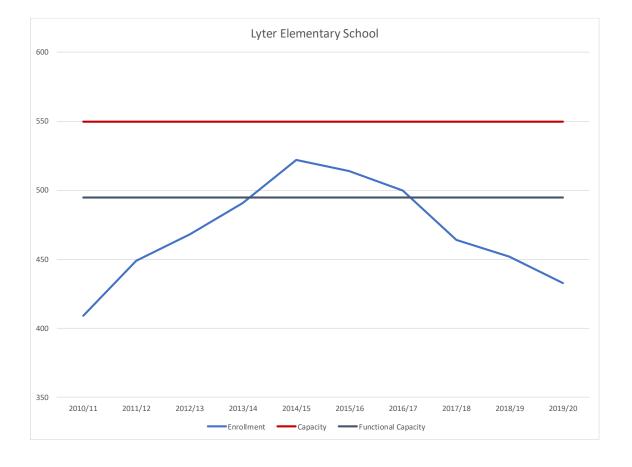
Enrollment Projections

Three Year 0	Three Year Growth Rates		rowth Rates
K	-3.42%	K	-5.90%
K-4	-2.68%	K-4	-2.23%
5-8	-2.41%	5-8	-0.43%
9-12	-1.56%	9-12	-1.39%
K-12	-2.21%	K-12	-1.37%

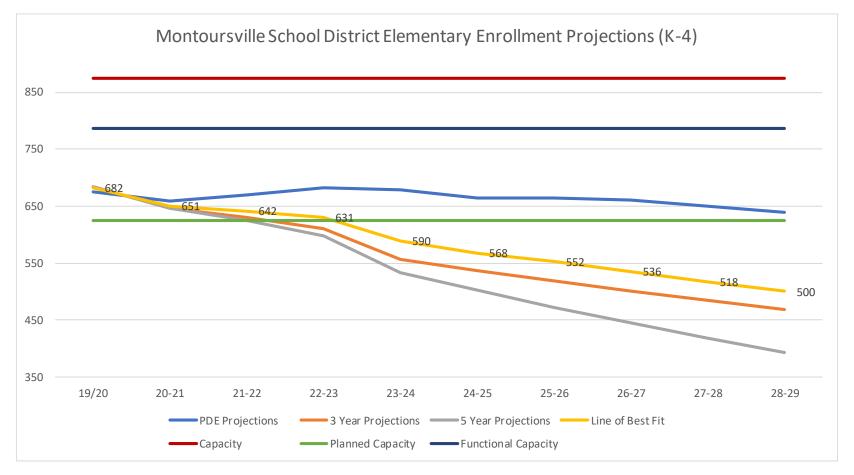




Enrollment Projections



Enrollment Projections



- Enrollment declining at a rate of 1.37% to 2.21% annually
- Planned capacity = projected enrollment (5 year) plus 10%
- Enrollment projections past 5 year not reliable

EDUCATIONAL & FUNCTIONAL DEFICIENCIES

Loyalsock Valley Elementary School

- STEM Lab
- Proper Classroom Storage
- Adequate sized Library
- Separate Gymnasium
- Adequate sized kitchen
- Secure vestibule entry
- Adequate space for Administration & Nurse
- Office/Small Group Instruction
- Conference Room
- Sensory Room
- Building Storage
- Separate Bus Loop and Parent Drop-off
- Playground enclosure fence









Lyter Elementary School

- STEM Lab
- Office/Small Group Instruction
- Conference Rooms
- Sensory Room
- Building Storage
- On site Parent Drop-off
- Playground enclosure fence





C.E. McCall Middle School

- Large Group Instruction Room
- Choral Classroom
- 21st Century Library
- Poor site vehicular circulation
- Outdoor learning space





Montoursville Area High School

- Quantity of Student Lockers
- Parking



District Administrative Offices

- Additional Offices
- Secure Vestibule
- Records Storage
- Public waiting & toilets
- Parking



EXISTING FACILITY CONDITIONS

District Facilities

	Original Date of Construction	Most Recent Renovation/Add.	Years since last Renovation/Add.
Loyalsock Valley Elem. School	1961	1983	37
Lyter Elementary School	1958	1998	22
C.E. McCall Middle School	1972	2010	10
Montoursville Area High School	1931	2017	3

Resurface paving

- Loyalsock Valley Elementary School
- Replace exterior & interior doors
- Address humidity issues
- Replace majority of finishes
- Renovate toilet rooms
- Replace classroom casework
- Replace food service equipment
- Abate asbestos materials (floor tile)











Loyalsock Valley Elementary School

- Replace entire HVAC system
- Replace plumbing piping system
- Replace plumbing fixtures
- Replace power and emergency power system
- Provide LED lighting (partial)
- Replace PA, Clock, & Bell systems
- Replace fire alarm system











- Replace playground equipment
- Replace exterior windows
- Minor finish replacement (carpet, kit. ceiling, plaster)
- Replace original doors & frames
- Replace door hardware throughout
- Renovate non-ADA compliant toilet rooms
- Replace walk-in cooler & freezer





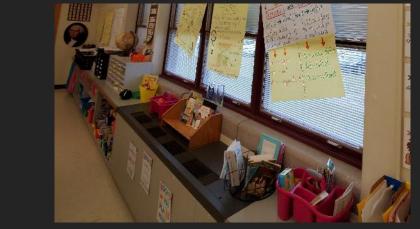






- Replace HVAC temperature controls
- Provide air conditioning
 - -Replace Gym & Library air handling units
 - -Replace classroom unit ventilators
 - -Upgrade electrical service
- Replace hot water boilers
- Replace toilet room exhaust fans
- Replace cast iron storm piping
- Replace original plumbing fixtures
- Provide mixing valves on sinks
- Replace fire alarm, clock, bell, & intercom systems
- Replace light fixtures with LED (partial)
- Install lighting controls

Lyter Elementary School









C.E. McCall Middle School

- Install under field drainage for soccer field
- Repair storage buildings (roof/walls)
- Replace ceramic tile in locker rooms
- Replace gymnasium equipment
- Replace TV studio AV equipment
- Refurbish or replace corridor lockers
- Replace domestic hot water heater
- Move locker room shower drains
- Replace lighting with LED (partial)
- Install lighting controls







Montoursville Area High School

- Paint stadium concessions/locker building
- Install railing at Tech Ed pathway
- Replace maintenance building roof
- Paint main gymnasium (ceiling/structure)
- Repair Auditorium flooring
- Replace faucets on solid surface lavatories







COST TO UPGRADE

Loyalsock Valley Elemantary School				
ESTIMATED COSTS TO UPGRADE TO CURRENT STANDARDS				
	COST	R/	ANGE	
Sitework	\$360,250	-	\$414,288	
Building Exterior	\$90,500	-	\$104,075	
Building Interior	\$1,193,754	-	\$1,372,817	
Specialties & Equipment	\$210,000	-	\$241,500	
Building Systems - HVAC	\$1,432,200	-	\$1,647,030	
Building Systems - Plumbing / Fire Protection	\$358,050	-	\$411,758	
Building Systems - Electrical	\$1,309,440	-	\$1,505,856	
SUBTOTAL	\$4,954,194	-	\$5,697,323	
Estimating Contingency	\$495,419	_	\$569,732	
TOTAL ESTIMATED CONSTRUCTION COSTS	\$5,449,613		\$6,267,055	

Lyter Elementary School				
ESTIMATED COSTS TO UPGRADE TO CURRENT STANDARDS				
	COST	ΓRA	ANGE	
Sitework	\$195,125	-	\$224,394	
Building Exterior	\$279,200	-	\$321,080	
Building Interior	\$391,805	-	\$450,576	
Specialties & Equipment	\$120,000	-	\$138,000	
Building Systems - HVAC	\$1,955,400	-	\$2,248,710	
Building Systems - Plumbing / Fire Protection	\$88,000	-	\$101,200	
Building Systems - Electrical	\$1,440,535	-	\$1,656,615	
SUBTOTAL	\$4,470,065	-	\$5,140,575	
Estimating Contingency	\$447,007	-	\$514,057	
TOTAL ESTIMATED CONSTRUCTION COSTS	\$4,917,072	-	\$5,654,632	

C.E. McCall Middle School					
ESTIMATED COSTS TO UPGRADE TO CURRENT ST	ESTIMATED COSTS TO UPGRADE TO CURRENT STANDARDS				
COST RANGE					
Sitework	\$250,000	-	\$287,500		
Building Exterior	\$25,000	-	\$28,750		
Building Interior	\$42,000	-	\$48,300		
Specialties & Equipment	\$250,000	_	\$287,500		
Building Systems - HVAC	\$0	-	\$0		
Building Systems - Plumbing / Fire Protection	\$62,000	-	\$71,300		
Building Systems - Electrical	\$425,000	-	\$488,750		
SUBTOTAL	\$1,054,000	-	\$1,212,100		
Estimating Contingency	\$105,400	_	\$121,210		
TOTAL ESTIMATED CONSTRUCTION COSTS	\$1,159,400	-	\$1,333,310		

Montoursville Area High School					
ESTIMATED COSTS TO UPGRADE TO CURRENT ST	ESTIMATED COSTS TO UPGRADE TO CURRENT STANDARDS				
	COS	T RA	NGE		
Sitework	\$6,000	-	\$6,900		
Building Exterior	\$91,440	-	\$105,156		
Building Interior	\$59,850	-	\$68,828		
Specialties & Equipment	\$0	-	\$0		
Building Systems - HVAC	\$0	-	\$0		
Building Systems - Plumbing / Fire Protection	\$8,400	-	\$9,660		
Building Systems - Electrical	\$0	-	\$0		
SUBTOTAL	\$165,690	-	\$190,544		
Estimating Contingency	\$16,569	-	\$19,054		
TOTAL ESTIMATED CONSTRUCTION COSTS	TOTAL ESTIMATED CONSTRUCTION COSTS \$182,259 - \$209,598				

District Administrative Offices				
ESTIMATED COSTS TO UPGRADE TO CURRENT S	TANDARDS	5		
	COS	T RA	NGE	
Sitework	\$0	-	\$0	
Building Exterior	\$0	-	\$0	
Building Interior	\$31,500	-	\$36,225	
Specialties & Equipment	\$0	-	\$0	
Building Systems - HVAC	\$0	-	\$0	
Building Systems - Plumbing / Fire Protection	\$0	-	\$0	
Building Systems - Electrical	\$0	-	\$0	
SUBTOTAL	\$31,500	-	\$36,225	
Estimating Contingency	\$3,150	-	\$3,623	
TOTAL ESTIMATED CONSTRUCTION COSTS	\$34,650	-	\$39,848	

Loyalsock Valley ES \$5.5 M - \$6.3 M

Lyter Elementary School \$5.4 M - \$6.3 M

C.E. McCall Middle School \$1.2 M - \$1.3 M

Montoursville Area HS \$180 K - \$206 K

District Admin Offices \$ 35 K - \$ 40 K

SUMMARY & NEXT STEPS

Summary of Needs

	MAJOR NEED	MODERATE NEED	MINOR/NO NEED
Existing Building Capacity			Loyalsock Valley Elementary School
			Lyter Elementary School
			C.E. McCall Middle School
			Montoursville Area High School
Projected Enrollment			Loyalsock Valley Elementary School
Capacity			Lyter Elementary School
			C.E. McCall Middle School
			Montoursville Area High School
Educational & Functional	Loyalsock Valley Elementary School	Lyter Elementary School	Montoursville Area High School
Deficiencies		C.E. McCall Middle School	
Existing Facility Conditions	Loyalsock Valley Elementary School	Lyter Elementary School	C.E. McCall Middle School
			Montoursville Area High School
Operational Efficiencies		Lyter Elementary School	C.E. McCall Middle School
		Loyalsock Valley Elementary School	Montoursville Area High School

Next Steps

- School Board & Public input on analysis & need
- Develop Construction Options to meet needs
- Present Options to School Board & Public for input
- Determine recommended option



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