



QUAKERTOWN COMMUNITY SCHOOL DISTRICT

CAPITAL IMPROVEMENTS PLAN 2019

Update Report on Findings and Recommendations

Prepared by:



QCSD – CAPITAL IMPROVEMENTS PLAN

EXECUTIVE SUMMARY

Presented herein is a report of the Quakertown Community School District (QCSD) Capital Improvements Plan dated October 2019.

In preparing this plan, a condition survey of the buildings was performed, and a list of facility needs compiled with additional input provided by QCSD's maintenance department and administrative staff. The items of work and costs noted in this report address the existing conditions only and do not include additions or renovations that would result from increased enrollment, program/curriculum revisions, etc.

D'Huy Engineering, Inc. would like to thank the QCSD for our continued relationship as your trusted advisor and working with us in preparing the Capital Improvements Study. We would also like to thank the QCSD Board of School Directors, Mr. Rob Christine, Mr. Zach Schoch, and the respective staff members for helping us with background information, and for guiding us through the facilities.

SUMMARY OF REPORT

The format of the report is as follows:

INTRODUCTORY SECTIONS:

- | | |
|-------|---|
| Tab 1 | This section contains the Executive Summary. |
| Tab 2 | This section contains the logic matrix, priority index factors affecting priority ratings and a list of categories of work. This information was used in establishing the project priorities. |

SECONDARY EDUCATIONAL FACILITY PROFILES:

- | | |
|-------|---|
| Tab 3 | This section contains a brief summary of the building systems, observations and recommendations for the Quakertown Community High School. |
| Tab 4 | This section contains a brief summary of the building systems, observations and recommendations for the Strayer Middle School. |
| Tab 5 | This section contains a brief summary of the building systems, observations and recommendations for the Sixth Grade Center. |

ELEMENTARY EDUCATIONAL FACILITY PROFILES:

- | | |
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| Tab 6 | This section contains a brief summary of the building systems, observations and recommendations for Pfaff Elementary School. |
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QCSD – CAPITAL IMPROVEMENTS PLAN

- Tab 7 This section contains a brief summary of the building systems, observations and recommendations for Quakertown Elementary School.
- Tab 8 This section contains a brief summary of the building systems, observations and recommendations for Richland Elementary School.
- Tab 9 This section contains a brief summary of the building systems, observations and recommendations for Trumbauersville Elementary School.

ANCILLARY FACILITY PROFILES:

- Tab 10 This section contains a brief summary of the building systems, observations and recommendations for the QCSD Stadium / Alumni Field.
- Tab 11 This section contains a brief summary of the building systems, observations and recommendations for the Facilities Building.

SUMMARY SECTIONS:

- Tab 12 This section contains recommendations itemized by priority order for each facility. It should be noted that even though each item of work could be addressed individually, it would be more cost effective and practical to combine items of work; e.g., ceiling tile/grid replacement, lighting replacement, HVAC replacement, etc.
- Tab 13 This section contains recommendations itemized by priority with all the facilities grouped together. It should be noted that even though each item of work could be addressed individually, it would be more cost effective and practical to combine items of work; e.g. ceiling tile/grid replacement, lighting replacement, HVAC replacement, etc.
- Tab 14 This section identifies the proposed capital projects for the next three years. Project selection, scope, and budget must be confirmed with QCSD.
- Tab 15 This section contains information regarding completed Capital Improvements projects since 2019.
- Tab 16 This section contains a Summary of Roof Systems and Warranty information.

MISCELLANEOUS INFORMATION:

- Tab 17 This section provides building code clarifications.
- Tab 18 Environmental Control Systems, Inc. AHERA 3-year inspection report dated March 1, 2018.

QCSD – CAPITAL IMPROVEMENTS PLAN

In general, this report does not include items that are considered regular maintenance items and does not include costs for new additions that may be required and are not recommended in the report. Items with an estimated cost below \$10,000 are not shown in the report unless they are part of a much larger project when aggregated. It is anticipated that projects with costs less than \$10,000 would be handled through annual repair and maintenance budgets. For example, a single area may cost less than \$10,000 to carpet; however, when there are an adequate number of areas to be carpeted in a single building, they may show up on the list.

A majority of the cost estimates for work recommendations listed for the schools were prepared from partial and/or schematic plans. The estimates were also calculated using the best available information at the time this report was written. Prior to budgeting or performing any work on any facility, a detailed material takeoff and review of scope should be performed by qualified personnel.

D'Huy Engineering, Inc. did not review/address environmental issues such as asbestos, radon, lead, etc. Some figures regarding asbestos remediation were, however, extrapolated from the District AHERA report regarding Asbestos Containing Material (ACM) present in each building. Prior to budgeting or performing any work in these areas, a detailed review of these items and other environmental issues should be thoroughly investigated.

This plan confirms the need for district-wide facility improvements. The review must, however, acknowledge that the District's facilities are well maintained and show that the pride of the QCSD is clearly evident. This plan should be updated annually based on the District's funds available and current needs. This will ensure that the QCSD's physical plant is well maintained to provide for educational needs.

It is the intent of D'Huy Engineering, Inc. that this plan serve as a working document for the District and, therefore, should not be considered a final statement that ends at this point. The priorities have been established using a logic matrix; however, the entries in the matrix are necessarily subjective. It is anticipated that these priorities may change after continued review by the Administration and Board. It is our hope that the District will continue to review and update the plan as funds become available for work to be performed. As work is completed and/or as additional items are identified in the future, the data can be updated to reflect a current situation at any time.

**QUAKERTOWN COMMUNITY SCHOOL DISTRICT
FACILITIES STUDY**

PRIORITY INDEXING

Recommendations have been assigned a priority index which represents a degree of need. The priority indexing ranges from 2 to 10, with 10 representing the highest degree of need.

9, 10	Critical – Should be addressed immediately
7, 8	Serious – Should be addressed promptly
5, 6	Necessary – Should be budgeted for
3, 4	Suggested to improve operations
2	Not presently essential – Will likely need attention in the near future
1	Provide handicapped accessibility
0	Contingency, miscellaneous, and unidentified items including implementing asbestos assessment and management plan

FACTORS AFFECTING PRIORITY RATINGS

- Age of specific plant facility components (including repairs and reconstruction).
- Use of specific plant facility components, e.g.:

<u>Usage</u>	<u>Priority</u>
Not in use	Low
Leased	Medium
Occasional	High
Regular	Very High

- Built-in redundancies, e.g.:

<u>Redundancy</u>	<u>Priority</u>
2 Boilers	Low
1 Boiler	High

- Imminent danger/hazard to occupants from the existing condition of the plant component.
- Criticality of specific component in relation to functioning of overall facility, including consideration of effect on other plant components, e.g.:

<u>Component</u>	<u>Priority</u>
Roof	High
Curtain	Low

- Present physical condition at time of survey
- Reported problems, including any repair history
- Deficiencies in identified plan component as it relates to its intended use.
- Educational impact of deterioration, deficiency, or existing condition of specific plant component.
- Life cycle evaluation of present recommendation on projected life of specific plan.
- Consideration of domino effect from failure of specific plan component.

CAPITAL IMPROVEMENTS PLAN

CATEGORIES OF WORK

<u>CATEGORY</u>	<u>DESCRIPTION</u>
AF	ATHLETIC FACILITIES
B	BOILER REPLACEMENT
CO	CONCRETE WORK
CA	CAULKING
CN	CONTINGENCY
CT	CEILING TILE
D	DOORS
ED	EXTERIOR DOORS
EL	IMPROVE EXTERIOR LIGHTING
EP	EXTERIOR PAINT
ES	UPGRADE ELECTRICAL SERVICE
EV	ELEVATOR
FA	FIRE ALARM/CAMERAS
FC	FLOOR CARPET
FT	FLOOR TILE
FTK	FUEL TANK
GL	GLASS REPLACEMENT
HA	PROVIDE HANDICAPPED ACCESSIBILITY
HV	HEATING, VENTILATION, AIR CONDITIONING, CONTROLS
IC	UPGRADE INTERCOM
ID	INTERIOR DOORS
IL	IMPROVE INTERIOR LIGHTING
IP	INTERIOR PAINT
L	LANDSCAPING
M	MASONRY
P	PLUMBING
PA	PAVING WORK
PK	ADDITIONAL PARKING
PS	PROPERTY SURVEYS
R	ROOF WORK
SC	STAGE REPAIRS
SL	STUDENT LOCKERS
SS	STORM SYSTEMS
TR	TOILET ROOMS
UN	UNCATEGORIZED
WR	WINDOW REPLACEMENT/REPAIR
WS	WINDOW SHADES, BLINDS, DRAPES

**Quakertown Community School District
Logic Matrix for Assigning Priorities**

RATING	PARAMETERS						
	SAFETY	EDUCATIONAL IMPACT	PHYSICAL CONDITIONS	DOMINO EFFECT	ECONOMIC IMPACT	AGE	LIFE EXPECTANCY
5	UNSAFE NEEDS IMMEDIATE ATTENTION	CRITICAL WILL CAUSE SCHOOL TO BE CLOSED	CRITICAL NEEDS IMMEDIATE ATTENTION	GREATLY IMPACTS OTHER ELEMENTS	IMMEDIATE ACTION SAVES MUCH LATER	OVER 20 YEARS	LESS THAN 5 YEARS
4	NOT UNSAFE BUT NEEDS IMMEDIATE ATTENTION	SERIOUS DISRUPTION	VERY POOR ADDRESS PROMPTLY	MODERATE IMPACT TO OTHER ELEMENTS	PROMPT ACTION SAVES MUCH LATER	10 - 20 YEARS	5 - 10 YEARS
3	NEEDS PROMPT ATTENTION	MODERATE DISRUPTION	POOR SHOULD BE BUDGETED		PROMPT ACTION SAVES MODERATELY	5 - 10 YEARS	10 - 15 YEARS
2	SAFE BUT SHOULD BE BUDGETED	SLIGHT DISRUPTION	ACCEPTABLE COULD BE IMPROVED	SLIGHT IMPACT TO OTHER ELEMENTS	ACTION IN 3 YEARS SAVES MUCH	3 - 5 YEARS	15 - 20 YEARS
1	SAFE BUT WILL NEED WORK IN FUTURE	MINOR DISRUPTION TO SMALL GROUP	GOOD - WILL NEED WORK IN FUTURE		LITTLE SAVINGS	1 - 3 YEARS	20 - 30 YEARS
0	NO SAFETY HAZARD	NO DISRUPTION	EXCELLENT	NO IMPACT ON OTHER ELEMENTS	NO SIGNIFICANT IMPACT	LESS THAN 1 YEAR	OVER 30 YEARS
IMPORTANCE FACTORS	5	5	3	3	2	1	

$$\text{PRIORITY} = ((SA \times 5) + (EI \times 5) + (PC \times 3) + (DE \times 3) + (EI \times 2) + AG + LE) / 10$$

MODIFIED DIVISOR IS 8
(FOR PRIORITY ADJUSTMENT)

**Quakertown Community School District
Capital Improvements Recommendations
DEI Project No. 231006**

DRAFT

Building	Item	SA	EI	PC	DE	EI	AG	LE	PRIORITY	Quantity	Unit (sf, LF, etc.)	Unit Cost	Estimated Cost Including 20% Indirect Costs	Area	Category
Facilities Building	New emergency generator	5	2	5	5	5	0	1	8	1	LS	\$ 150,000.00	\$ 180,000.00	M/E/P	ES
Facilities Building	New fire alarm system	5	2	5	4	2	4	5	8	10,200	SF	\$ 3.00	\$ 36,720.00	Interior	FA
Facilities Building	New Surveillance Camera System (8 cameras)	3	0	5	5	5	0	3	6	8	SF	\$ 3,600.00	\$ 34,560.00	Site	PA
Facilities Building	New heat system in shop and storage	2	0	4	4	1	5	5	5	6,500	SF	\$ 38.00	\$ 296,400.00	M/E/P	HV
Facilities Building	Windows replacement in shop	2	0	3	2	1	5	5	4	500	SF	\$ 70.00	\$ 42,000.00	Building Envelope	WR
Facilities Building	New entrance doors/transom/sidelights	2	0	3	2	1	5	5	4	200	SF	\$ 70.00	\$ 16,800.00	Building Envelope	ED
Facilities Building	Replace exterior man doors (2 single)	2	0	3	2	1	5	5	4	2	EA	\$ 3,500.00	\$ 8,400.00	Building Envelope	ED
Facilities Building	Replace existing gas & diesel pumps (dispensers)	3	0	4	2	1	0	0	4	3	EA	\$ 4,500.00	\$ 16,200.00	Site	FTK
Facilities Building	Fume hood/welding station	3	0	4	2	1	0	0	4	1	LS	\$ 20,000.00	\$ 24,000.00	M/E/P	HV
Facilities Building	New walk-in refrigerator/freezer	1	1	2	3	1	3	4	3	1	LS	\$ 80,000.00	\$ 96,000.00	Interior	UN
Facilities Building	Mill and overlay all lots and drives	0	0	0	1	0	1	3	1	10,000	SY	\$ 2.00	\$ 24,000.00	Site	PA
Facilities Building	Roof Replacement (20 year as of 2019)	0	0	0	1	0	0	1	0	10,200	SF	\$ 13.00	\$ 159,120.00	Site	PA
Field House/Athletic Site	Replace existing paving from ticket booths to visitor's side	2	0	4	2	1	4	4	4	31,500	SF	\$ 2.00	\$ 75,600.00	Site	PA
Field House/Athletic Site	Replace synthetic turf	2	1	2	1	2	3	5	4	1	EA	\$ 425,000.00	\$ 510,000.00	Site	ES
High School	Gymnasium indoor track resurfacing replacement	2	1	3	2	4	4	5	5	10,000	SF	\$ 20.00	\$ 240,000.00	Site	AF
High School	New operable bleacher replacement (upper Level)	2	1	3	2	4	4	5	5	800	EA	\$ 260.00	\$ 249,600.00	Site	AF
High School	New operable bleacher replacement (gym Floor)	2	1	3	2	4	4	5	5	800	EA	\$ 260.00	\$ 249,600.00	Site	AF
High School	Track resurfacing	2	1	3	2	4	4	5	5	1	LS	\$ 275,000.00	\$ 330,000.00	Site	AF
High School	Gym floor refinishing (by QCSD maintenance program)	1	1	2	3	1	3	4	3	1	LS	\$ 15,000.00	\$ 18,000.00	Interior	AF
High School	Synthetic turf replacement	2	1	1	1	2	3	4	3	1	LS	\$ 425,000.00	\$ 510,000.00	Site	AF
High School	Repave all lots and drives (mill and overlay)	0	0	1	2	0	2	2	1	328,750	SF	\$ 2.00	\$ 789,000.00	Interior	PA
Pfaff ES	Geothermal pipe vault repairs	4	3	4	5	3	4	5	8	1	LS	\$ 85,000.00	\$ 102,000.00	M/E/P	HV
Pfaff ES	Exterior safety bollards allowance (By QCSD)	5	0	5	5	5	0	3	7	6	EA	\$ 3,500.00	\$ 25,200.00	Site	UN
Pfaff ES	Paving replacement at bus drop-off	3	2	5	4	2	4	5	7	13,500	SF	\$ 5.00	\$ 81,000.00	Site	PA
Pfaff ES	Paving replacement at parent drop-off	4	1	4	4	3	4	5	6	66,600	SF	\$ 2.00	\$ 159,840.00	Site	PA



**Quakertown Community School District
Capital Improvements Recommendations
DEI Project No. 231006**

DRAFT

Building	Item	SA	EI	PC	DE	EI	AG	LE	PRIORITY	Quantity	Unit (sf, LF, etc.)	Unit Cost	Estimated Cost Including 20% Indirect Costs	Area	Category
Pfaff ES	Sidewalk replacement at inlet	4	1	4	4	3	4	5	6	1	LS	\$ 7,500.00	\$ 9,000.00	Site	CO
Pfaff ES	New access control system	3	0	5	5	5	0	3	6	85,000	SF	\$ 1.50	\$ 153,000.00	Interior	UN
Pfaff ES	New surveillance camera system (10 cameras)	3	0	5	5	5	0	3	6	10	SF	\$ 3,600.00	\$ 43,200.00	Interior	FA
Pfaff ES	Interior LED Lighting Upgrade/Occupancy Sensors / lighting controls	1	2	2	4	2	4	5	5	50,000	SF	\$ 8.00	\$ 480,000.00	Interior	IL
Pfaff ES	Interior LED Lighting Gym and Cafeteria (by QCSD)	1	2	2	4	2	4	5	5	35,000	SF	\$ 4.00	\$ 168,000.00	Interior	IL
Pfaff ES	Exterior LED lighting (by QCSD)	1	2	2	4	2	4	5	5	1	LS	\$ 150,000.00	\$ 180,000.00	Site	EL
Pfaff ES	New ceiling tiles (during lighting upgrade)	1	1	2	3	1	3	4	3	85,000	SF	\$ 2.00	\$ 204,000.00	Interior	CT
Pfaff ES	Gym floor refinishing (by QCSD maintenance program)	1	1	2	3	1	3	4	3	1	LS	\$ 15,000.00	\$ 18,000.00	Interior	AF
Pfaff ES	Window caulk joints	0	1	3	2	2	4	5	3	12,000	LF	\$ 12.00	\$ 172,800.00	Building Envelope	CA
Pfaff ES	Brick control joints	0	1	3	2	2	4	5	3	7,500	LF	\$ 12.00	\$ 108,000.00	Building Envelope	M
Pfaff ES	Prep and paint canopy structure	0	1	3	2	2	4	5	3	5,000	SF	\$ 8.00	\$ 48,000.00	Site	EP
Pfaff ES	Brick repair and cleaning of school marquee	0	1	3	2	2	4	5	3	1,500	SF	\$ 45.00	\$ 81,000.00	Site	M
Pfaff ES	Rear patio at main entrance retaining wall repair	0	1	3	2	2	4	5	3	480	SF	\$ 35.00	\$ 20,160.00	Site	M
Pfaff ES	Miscellaneous masonry repairs/replacement	0	1	3	2	2	4	5	3	300	SF	\$ 50.00	\$ 18,000.00	Building Envelope	M
Pfaff ES	Bench replacement at entrance	0	1	3	2	2	4	5	3	4	EA	\$ 2,500.00	\$ 12,000.00	Site	UN
Pfaff ES	Repoint brick wall cap	0	1	3	2	2	4	5	3	1	LS	\$ 15,000.00	\$ 18,000.00	Site	M
Pfaff ES	Repoint/repair curved brick site wall	0	1	3	2	2	4	5	3	1	LS	\$ 25,000.00	\$ 30,000.00	Site	M
Pfaff ES	Poured concrete cap on library site wall	0	1	3	2	2	4	5	3	1	LS	\$ 11,500.00	\$ 13,800.00	Site	CO
Pfaff ES	Poured concrete cap on low site wall	0	1	3	2	2	4	5	3	1	LS	\$ 5,500.00	\$ 6,600.00	Site	CO
Pfaff ES	Loading dock wall repairs/repointing/cleaning	0	1	3	2	2	4	5	3	1	LS	\$ 35,500.00	\$ 42,600.00	Site	M
Pfaff ES	Raise concrete at courtyard	0	1	3	2	2	4	5	3	1	LS	\$ 22,500.00	\$ 27,000.00	Site	CO
Pfaff ES	Repair retaining wall cap at courtyard	0	1	3	2	2	4	5	3	1	LS	\$ 10,500.00	\$ 12,600.00	Site	M
Pfaff ES	Loading dock stair and railing replacement	0	1	3	2	2	4	5	3	1	LS	\$ 35,000.00	\$ 42,000.00	Site	CO
Pfaff ES	New stage curtains allowance (By QCSD)	2	0	2	2	1	4	4	3	1	EA	\$ 10,000.00	\$ 12,000.00	Interior	SC
Pfaff ES	Roof replacement	0	1	2	2	2	4	5	3	40,000	SF	\$ 22.00	\$ 1,056,000.00	Building Envelope	R



**Quakertown Community School District
Capital Improvements Recommendations
DEI Project No. 231006**

DRAFT

Building	Item	SA	EI	PC	DE	EI	AG	LE	PRIORITY	Quantity	Unit (sf, LF, etc.)	Unit Cost	Estimated Cost Including 20% Indirect Costs	Area	Category
Quakertown ES	Exterior safety bollards allowance (by QCSD)	5	0	5	5	5	0	3	7	6	EA	\$ 3,500.00	\$ 25,200.00	Site	UN
Quakertown ES	Total Building Renovation								0	41,172	SF	\$ 300.00	\$ 14,821,920.00	Interior	R
Richland ES	Repave Bus Drop off loop	5	2	5	4	2	4	5	8	12,500	SF	\$ 5.00	\$ 75,000.00	Site	PA
Richland ES	Sidewalk replacement	5	2	5	4	2	4	5	8	2,000	SF	\$ 22.00	\$ 52,800.00	Site	CO
Richland ES	Replace stair/handrail(s)	5	2	5	4	2	4	5	8	1	EA	\$ 4,500.00	\$ 5,400.00	Site	HA
Richland ES	Exterior safety bollards allowance (By QCSD)	5	0	5	5	5	0	3	7	6	EA	\$ 3,500.00	\$ 25,200.00	Site	UN
Richland ES	Pave all lots and drives	4	1	4	4	3	4	5	6	77,750	SF	\$ 2.00	\$ 186,600.00	Site	PA
Richland ES	New access control system	3	0	5	5	5	0	3	6	43,390	SF	\$ 2.00	\$ 104,136.00	Interior	UN
Richland ES	New surveillance camera system (10 Camera)	3	0	5	5	5	0	3	6	10	EA	\$ 3,600.00	\$ 43,200.00	Interior	FA
Richland ES	Secured vestibule pass-through windows	3	0	5	5	5	0	3	6	1	LS	\$ 7,500.00	\$ 9,000.00	Interior	UN
Richland ES	Interior LED Lighting Upgrade/Occupancy Sensors / lighting controls	1	2	2	4	2	4	5	5	33,390	SF	\$ 8.00	\$ 320,544.00	Interior	IL
Richland ES	Interior LED Lighting Gym and Cafeteria (by QCSD)	1	2	2	4	2	4	5	5	10,000	SF	\$ 4.00	\$ 48,000.00	Interior	IL
Richland ES	Exterior LED lighting (by QCSD)	1	2	2	4	2	4	5	5	12	EA	\$ 3,500.00	\$ 50,400.00	Site	EL
Richland ES	New ceiling tiles (during lighting upgrade)	1	1	2	3	1	3	4	3	43,390	SF	\$ 2.00	\$ 104,136.00	Interior	CT
Richland ES	Gym floor refinishing (by QCSD maintenance program)	1	1	2	3	1	3	4	3	1	LS	\$ 15,000.00	\$ 18,000.00	Interior	AF
Richland ES	Miscellaneous masonry repairs	0	1	3	2	2	4	5	3	1,000	SF	\$ 25.00	\$ 30,000.00	Building Envelope	M
Richland ES	Miscellaneous metal panel repairs	0	1	3	2	2	4	5	3	1	LS	\$ 15,000.00	\$ 18,000.00	Building Envelope	UN
Richland ES	Playground underdrain (allowance)	0	1	3	2	2	4	5	3	1	LS	\$ 25,000.00	\$ 30,000.00	Site	SS
Richland ES	Playground equipment replacement (Allowance)	0	1	3	2	2	4	5	3	1	EA	\$ 130,000.00	\$ 156,000.00	Site	AF
Richland ES	New stage curtains allowance (By QCSD)	2	0	2	2	1	4	4	3	1	EA	\$ 10,000.00	\$ 12,000.00	Interior	SC
Richland ES	Roof replacement	0	1	2	2	2	4	5	3	34,000	SF	\$ 16.00	\$ 652,800.00	Building Envelope	R
Sixth Grade Center	Exterior safety bollards allowance (By QCSD)	5	0	5	5	5	0	3	7	6	EA	\$ 3,500.00	\$ 25,200.00	Site	UN
Sixth Grade Center	New access control system	3	0	5	5	5	0	3	6	85,579	SF	\$ 1.50	\$ 154,042.20	Interior	UN
Sixth Grade Center	New surveillance camera system (10 Camera)	3	0	5	5	5	0	3	6	10	EA	\$ 3,600.00	\$ 43,200.00	Interior	FA
Sixth Grade Center	Carpet replacement in computer lab Room 133	2	2	4	2	0	5	5	5	1,200	SF	\$ 8.00	\$ 11,520.00	Interior	FC



**Quakertown Community School District
Capital Improvements Recommendations
DEI Project No. 231006**

DRAFT

Building	Item	SA	EI	PC	DE	EI	AG	LE	PRIORITY	Quantity	Unit (\$f, LF, etc.)	Unit Cost	Estimated Cost Including 20% Indirect Costs	Area	Category
Sixth Grade Center	Interior LED Lighting Upgrade/Occupancy Sensors / lighting controls	1	2	2	4	2	4	5	5	75,579	SF	\$ 7.00	\$ 634,863.60	Interior	IL
Sixth Grade Center	Exterior LED lighting (by QCSD)	1	2	2	4	2	4	5	5	15	EA	\$ 3,500.00	\$ 63,000.00	Site	EL
Sixth Grade Center	Library carpet replacement (Floor slab investigation/remediation)	1	2	4	2	0	4	3	4	4,400	SF	\$ 8.00	\$ 42,240.00	Interior	FC
Sixth Grade Center	New gymnasium sound system	2	3	3	2	0	0	0	4	1	LS	\$ 25,000.00	\$ 30,000.00	Interior	IC
Sixth Grade Center	500+ locker replacement	0	3	3	2	0	4	5	4	500	EA	\$ 475.00	\$ 285,000.00	Interior	SL
Sixth Grade Center	Art room modification/new kiln (allowance)	0	3	3	2	0	4	5	4	1	LS	\$ 40,000.00	\$ 48,000.00	Interior	HV
Sixth Grade Center	New ceiling tiles (during lighting upgrade)	1	1	2	3	1	3	4	3	85,579	SF	\$ 3.00	\$ 308,084.40	Interior	CT
Sixth Grade Center	Gym floor refinishing (by QCSD maintenance program)	1	1	2	3	1	3	4	3	1	LS	\$ 15,000.00	\$ 18,000.00	Interior	AF
Sixth Grade Center	Facade masonry cleaning	0	1	3	2	2	4	5	3	2,500	SF	\$ 1.00	\$ 3,000.00	Building Envelope	M
Sixth Grade Center	Mechanical screen wall masonry repairs	0	1	3	2	2	4	5	3	1,000	SF	\$ 20.00	\$ 24,000.00	Building Envelope	M
Sixth Grade Center	Loading dock repairs	0	1	3	2	2	4	5	3	1	LS	\$ 25,000.00	\$ 30,000.00	Site	UN
Sixth Grade Center	Repave all lots and drives (mill and overlay)	0	0	1	2	0	2	2	1	117,000	SF	\$ 2.00	\$ 280,800.00	Site	PA
Strayer MS	Refinish/Replace existing stage floor and nosing	5	2	5	4	3	4	5	8	2,500	SF	\$ 4.00	\$ 12,000.00	Interior	SC
Strayer MS	Replace dust collection system (allowance)	5	2	5	4	2	4	5	8	1	EA	\$ 30,000.00	\$ 36,000.00	Interior	HV
Strayer MS	Replace dust collector suppression systems (allowance)	5	2	5	4	2	4	5	8	1	EA	\$ 25,000.00	\$ 30,000.00	Interior	HV
Strayer MS	Exterior safety bollards allowance (By QCSD)	5	0	5	5	5	0	3	7	12	EA	\$ 3,500.00	\$ 50,400.00	Site	UN
Strayer MS	Mill and overlay all lots and drives	4	1	4	4	3	4	5	6	231,500	SF	\$ 2.00	\$ 555,600.00	Site	PA
Strayer MS	Sidewalk replacement	4	1	4	4	3	4	5	6	2,000	SF	\$ 20.00	\$ 48,000.00	Site	CO
Strayer MS	Inlet repairs	4	1	4	4	3	4	5	6	6	EA	\$ 4,500.00	\$ 32,400.00	Site	SS
Strayer MS	New access control system	3	0	5	5	5	0	3	6	190,000	SF	\$ 1.50	\$ 342,000.00	Interior	UN
Strayer MS	New surveillance camera system (10 Camera)	3	0	5	5	5	0	3	6	10	EA	\$ 3,600.00	\$ 43,200.00	Interior	FA
Strayer MS	Secured vestibule pass-through windows	3	0	5	5	5	0	3	6	1	LS	\$ 5,500.00	\$ 6,600.00	Interior	UN
Strayer MS	AC unit replacement in boys/girls locker rooms	2	2	3	4	1	4	5	5	1	EA	\$ 110,000.00	\$ 132,000.00	M/E/P	HV
Strayer MS	Interior LED Lighting Upgrade/Occupancy Sensors / lighting controls	1	2	2	4	2	4	5	5	175,000	SF	\$ 8.00	\$ 1,680,000.00	Interior	IL
Strayer MS	Interior LED Lighting Gym and Cafeteria (by QCSD)	1	2	2	4	2	4	5	5	15,000	SF	\$ 4.00	\$ 72,000.00	Interior	IL



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Building	Item	SA	EI	PC	DE	EI	AG	LE	PRIORITY	Quantity	Unit (sf, LF, etc.)	Unit Cost	Estimated Cost Including 20% Indirect Costs	Area	Category
Strayer MS	Exterior LED lighting (by QCSD)	1	2	2	4	2	4	5	5	25	EA	\$ 1,000.00	\$ 30,000.00	Site	EL
Strayer MS	New bleachers - 200 seats (3 tier)	2	2	3	3	0	3	3	4	200	EA	\$ 250.00	\$ 60,000.00	Site	AF
Strayer MS	New track and football field - include fencing (allowance)	2	2	3	3	0	3	3	4	1	LS	\$ 600,000.00	\$ 720,000.00	Site	AF
Strayer MS	Replace wood split-rail fence	3	0	5	1	0	4	5	4	300	LF	\$ 40.00	\$ 14,400.00	Site	UN
Strayer MS	Rebuild baseball field and fencing	2	1	3	3	0	4	4	4	1	LS	\$ 310,000.00	\$ 372,000.00	Site	AF
Strayer MS	New ceiling tiles (during lighting upgrade)	1	1	2	3	1	3	4	3	190,000	SF	\$ 2.00	\$ 456,000.00	Interior	CT
Strayer MS	Façade masonry cleaning	0	1	3	2	2	4	5	3	64,800	SF	\$ 0.50	\$ 38,880.00	Building Envelope	M
Strayer MS	Miscellaneous masonry repairs	0	1	3	2	2	4	5	3	1,000	SF	\$ 25.00	\$ 30,000.00	Building Envelope	M
Strayer MS	Repoint loading dock retaining wall	0	1	3	2	2	4	5	3	1,000	SF	\$ 25.00	\$ 30,000.00	Site	UN
Strayer MS	Paint exterior hollow metal doors and frames	0	1	3	2	2	4	5	3	15	EA	\$ 500.00	\$ 9,000.00	Building Envelope	ED
Strayer MS	Roof replacement	0	1	2	2	2	4	3	3	152,000	SF	\$ 22.00	\$ 4,012,800.00	Building Envelope	R
Strayer MS	Install storage building 32 x 60 (allowance)	0	1	3	4	1	0	0	3	1	LS	\$ 75,000.00	\$ 90,000.00	Site	UN
Trumbauersville ES	Repave Bus Drop off loop	5	2	5	4	3	4	5	8	13,500	SF	\$ 5.00	\$ 81,000.00	Site	PA
Trumbauersville ES	Interior LED Lighting Gym and Cafeteria (by QCSD)	5	2	5	4	2	4	5	8	15,000	SF	\$ 4.00	\$ 72,000.00	Interior	IL
Trumbauersville ES	Secured vestibule	4	2	5	4	2	4	5	7	1	EA	\$ 25,000.00	\$ 30,000.00	Interior	UN
Trumbauersville ES	Exterior safety bollards allowance (By QCSD)	5	0	5	5	5	0	3	7	6	EA	\$ 3,500.00	\$ 25,200.00	Site	UN
Trumbauersville ES	New access control system	3	0	5	5	5	0	3	6	54,647	SF	\$ 1.50	\$ 98,364.60	Interior	UN
Trumbauersville ES	New surveillance camera system (10 Camera)	3	0	5	5	5	0	3	6	40	EA	\$ 3,600.00	\$ 172,800.00	Interior	FA
Trumbauersville ES	Sidewalk replacement	3	1	3	4	3	3	4	5	1,500	SF	\$ 20.00	\$ 36,000.00	Site	CO
Trumbauersville ES	Interior LED Lighting Upgrade/Occupancy Sensors / lighting controls	1	2	2	4	2	4	5	5	39,647	SF	\$ 8.00	\$ 380,611.20	Interior	IL
Trumbauersville ES	Exterior LED lighting (by QCSD)	1	2	2	4	2	4	5	5	16	EA	\$ 3,500.00	\$ 67,200.00	Site	EL
Trumbauersville ES	Loading dock guardrail replacement	2	1	3	2	2	4	5	4	1	LS	\$ 15,000.00	\$ 18,000.00	Site	UN
Trumbauersville ES	New ceiling tiles (during lighting upgrade)	1	1	2	3	1	3	4	3	54,647	SF	\$ 2.00	\$ 131,152.80	Interior	CT
Trumbauersville ES	Gym floor refinishing (by QCSD maintenance program)	1	1	2	3	1	3	4	3	1	EA	\$ 15,000.00	\$ 18,000.00	Interior	AF
Trumbauersville ES	Façade masonry cleaning	0	1	3	2	2	4	5	3	35,000	SF	\$ 0.50	\$ 21,000.00	Building Envelope	EP



**Quakertown Community School District
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Building	Item	SA	EI	PC	DE	EI	AG	LE	PRIORITY	Quantity	Unit (sf, LF, etc.)	Unit Cost	Estimated Cost Including 20% Indirect Costs	Area	Category
Trumbauersville ES	Loading dock retaining wall repairs	0	1	3	2	2	4	5	3	500	SF	\$ 35.00	\$ 21,000.00	Site	M
Trumbauersville ES	Replacement of exterior doors (allowance)	0	1	3	2	2	4	5	3	6	EA	\$ 3,500.00	\$ 25,200.00	Building Envelope	ED
Trumbauersville ES	Loading dock repair / dock bumper	0	1	3	2	2	4	5	3	1	LS	\$ 7,000.00	\$ 8,400.00	Site	M
Trumbauersville ES	Flat roof replacement (2 areas)	0	1	2	2	2	4	3	3	3,500	SF	\$ 22.00	\$ 92,400.00	Building Envelope	R
Trumbauersville ES	Repave all lots and drives (mill and overlay)	0	0	1	2	0	2	2	1	66,600	SF	\$ 2.00	\$ 159,840.00	Site	PA
													Grand Total:	\$ 36,400,534.80	



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Building	Item	SA	EI	PC	DE	EI	AG	LE	PRIORITY	Quantity	Unit (sf, LF, etc.)	Unit Cost	Estimated Cost Including 20% Indirect Costs	Area	Category
Facilities Building	New emergency generator	5	2	5	5	5	0	1	8	1	LS	\$ 150,000.00	\$ 180,000.00	M/E/P	ES
Facilities Building	New fire alarm system	5	2	5	4	2	4	5	8	10,200	SF	\$ 3.00	\$ 36,720.00	Interior	FA
Pfaff ES	Geothermal pipe vault repairs	4	3	4	5	3	4	5	8	1	LS	\$ 85,000.00	\$ 102,000.00	M/E/P	HV
Richland ES	Repave Bus Drop off loop	5	2	5	4	2	4	5	8	12,500	SF	\$ 5.00	\$ 75,000.00	Site	PA
Richland ES	Sidewalk replacement	5	2	5	4	2	4	5	8	2,000	SF	\$ 22.00	\$ 52,800.00	Site	CO
Richland ES	Replace stair/handrail(s)	5	2	5	4	2	4	5	8	1	EA	\$ 4,500.00	\$ 5,400.00	Site	HA
Strayer MS	Refinish/Replace existing stage floor and nosing	5	2	5	4	3	4	5	8	2,500	SF	\$ 4.00	\$ 12,000.00	Interior	SC
Strayer MS	Replace dust collection system (allowance)	5	2	5	4	2	4	5	8	1	EA	\$ 30,000.00	\$ 36,000.00	Interior	HV
Strayer MS	Replace dust collector suppression systems (allowance)	5	2	5	4	2	4	5	8	1	EA	\$ 25,000.00	\$ 30,000.00	Interior	HV
Trumbauersville ES	Repave Bus Drop off loop	5	2	5	4	3	4	5	8	13,500	SF	\$ 5.00	\$ 81,000.00	Site	PA
Trumbauersville ES	Interior LED Lighting Gym and Cafeteria (by QCSD)	5	2	5	4	2	4	5	8	15,000	SF	\$ 4.00	\$ 72,000.00	Interior	IL
Pfaff ES	Exterior safety bollards allowance (By QCSD)	5	0	5	5	5	0	3	7	6	EA	\$ 3,500.00	\$ 25,200.00	Site	UN
Pfaff ES	Paving replacement at bus drop-off	3	2	5	4	2	4	5	7	13,500	SF	\$ 5.00	\$ 81,000.00	Site	PA
Quakertown ES	Exterior safety bollards allowance (by QCSD)	5	0	5	5	5	0	3	7	6	EA	\$ 3,500.00	\$ 25,200.00	Site	UN
Richland ES	Exterior safety bollards allowance (By QCSD)	5	0	5	5	5	0	3	7	6	EA	\$ 3,500.00	\$ 25,200.00	Site	UN
Sixth Grade Center	Exterior safety bollards allowance (By QCSD)	5	0	5	5	5	0	3	7	6	EA	\$ 3,500.00	\$ 25,200.00	Site	UN
Strayer MS	Exterior safety bollards allowance (By QCSD)	5	0	5	5	5	0	3	7	12	EA	\$ 3,500.00	\$ 50,400.00	Site	UN
Trumbauersville ES	Secured vestibule	4	2	5	4	2	4	5	7	1	EA	\$ 25,000.00	\$ 30,000.00	Interior	UN
Trumbauersville ES	Exterior safety bollards allowance (By QCSD)	5	0	5	5	5	0	3	7	6	EA	\$ 3,500.00	\$ 25,200.00	Site	UN
Facilities Building	New Surveillance Camera System (8 cameras)	3	0	5	5	5	0	3	6	8	SF	\$ 3,600.00	\$ 34,560.00	Site	PA
Pfaff ES	Paving replacement at parent drop-off	4	1	4	4	3	4	5	6	66,600	SF	\$ 2.00	\$ 159,840.00	Site	PA
Pfaff ES	Sidewalk replacement at inlet	4	1	4	4	3	4	5	6	1	LS	\$ 7,500.00	\$ 9,000.00	Site	CO
Pfaff ES	New access control system	3	0	5	5	5	0	3	6	85,000	SF	\$ 1.50	\$ 153,000.00	Interior	UN
Pfaff ES	New surveillance camera system (10 cameras)	3	0	5	5	5	0	3	6	10	SF	\$ 3,600.00	\$ 43,200.00	Interior	FA
Richland ES	Pave all lots and drives	4	1	4	4	3	4	5	6	77,750	SF	\$ 2.00	\$ 186,600.00	Site	PA



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Building	Item	SA	EI	PC	DE	EI	AG	LE	PRIORITY	Quantity	Unit (sf, LF, etc.)	Unit Cost	Estimated Cost Including 20% Indirect Costs	Area	Category
Richland ES	New access control system	3	0	5	5	5	0	3	6	43,390	SF	\$ 2.00	\$ 104,136.00	Interior	UN
Richland ES	New surveillance camera system (10 Camera)	3	0	5	5	5	0	3	6	10	EA	\$ 3,600.00	\$ 43,200.00	Interior	FA
Richland ES	Secured vestibule pass-through windows	3	0	5	5	5	0	3	6	1	LS	\$ 7,500.00	\$ 9,000.00	Interior	UN
Sixth Grade Center	New access control system	3	0	5	5	5	0	3	6	85,579	SF	\$ 1.50	\$ 154,042.20	Interior	UN
Sixth Grade Center	New surveillance camera system (10 Camera)	3	0	5	5	5	0	3	6	10	EA	\$ 3,600.00	\$ 43,200.00	Interior	FA
Strayer MS	Mill and overlay all lots and drives	4	1	4	4	3	4	5	6	231,500	SF	\$ 2.00	\$ 555,600.00	Site	PA
Strayer MS	Sidewalk replacement	4	1	4	4	3	4	5	6	2,000	SF	\$ 20.00	\$ 48,000.00	Site	CO
Strayer MS	Inlet repairs	4	1	4	4	3	4	5	6	6	EA	\$ 4,500.00	\$ 32,400.00	Site	SS
Strayer MS	New access control system	3	0	5	5	5	0	3	6	190,000	SF	\$ 1.50	\$ 342,000.00	Interior	UN
Strayer MS	New surveillance camera system (10 Camera)	3	0	5	5	5	0	3	6	10	EA	\$ 3,600.00	\$ 43,200.00	Interior	FA
Strayer MS	Secured vestibule pass-through windows	3	0	5	5	5	0	3	6	1	LS	\$ 5,500.00	\$ 6,600.00	Interior	UN
Trumbauersville ES	New access control system	3	0	5	5	5	0	3	6	54,647	SF	\$ 1.50	\$ 98,364.60	Interior	UN
Trumbauersville ES	New surveillance camera system (10 Camera)	3	0	5	5	5	0	3	6	40	EA	\$ 3,600.00	\$ 172,800.00	Interior	FA
Facilities Building	New heat system in shop and storage	2	0	4	4	1	5	5	5	6,500	SF	\$ 38.00	\$ 296,400.00	M/E/P	HV
High School	Gymnasium indoor track resurfacing replacement	2	1	3	2	4	4	5	5	10,000	SF	\$ 20.00	\$ 240,000.00	Site	AF
High School	New operable bleacher replacement (upper Level)	2	1	3	2	4	4	5	5	800	EA	\$ 260.00	\$ 249,600.00	Site	AF
High School	New operable bleacher replacement (gym Floor)	2	1	3	2	4	4	5	5	800	EA	\$ 260.00	\$ 249,600.00	Site	AF
High School	Track resurfacing	2	1	3	2	4	4	5	5	1	LS	\$ 275,000.00	\$ 330,000.00	Site	AF
Pfaff ES	Interior LED Lighting Upgrade/Occupancy Sensors / lighting controls	1	2	2	4	2	4	5	5	50,000	SF	\$ 8.00	\$ 480,000.00	Interior	IL
Pfaff ES	Interior LED Lighting Gym and Cafeteria (by QCSD)	1	2	2	4	2	4	5	5	35,000	SF	\$ 4.00	\$ 168,000.00	Interior	IL
Pfaff ES	Exterior LED lighting (by QCSD)	1	2	2	4	2	4	5	5	1	LS	\$ 150,000.00	\$ 180,000.00	Site	EL
Richland ES	Interior LED Lighting Upgrade/Occupancy Sensors / lighting controls	1	2	2	4	2	4	5	5	33,390	SF	\$ 8.00	\$ 320,544.00	Interior	IL
Richland ES	Interior LED Lighting Gym and Cafeteria (by QCSD)	1	2	2	4	2	4	5	5	10,000	SF	\$ 4.00	\$ 48,000.00	Interior	IL
Richland ES	Exterior LED lighting (by QCSD)	1	2	2	4	2	4	5	5	12	EA	\$ 3,500.00	\$ 50,400.00	Site	EL
Sixth Grade Center	Carpet replacement in computer lab Room 133	2	2	4	2	0	5	5	5	1,200	SF	\$ 8.00	\$ 11,520.00	Interior	FC



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Building	Item	SA	EI	PC	DE	EI	AG	LE	PRIORITY	Quantity	Unit (sf, LF, etc.)	Unit Cost	Estimated Cost Including 20% Indirect Costs	Area	Category
Sixth Grade Center	Interior LED Lighting Upgrade/Occupancy Sensors / lighting controls	1	2	2	4	2	4	5	5	75,579	SF	\$ 7.00	\$ 634,863.60	Interior	IL
Sixth Grade Center	Exterior LED lighting (by QCSD)	1	2	2	4	2	4	5	5	15	EA	\$ 3,500.00	\$ 63,000.00	Site	EL
Strayer MS	AC unit replacement in boys/girls locker rooms	2	2	3	4	1	4	5	5	1	EA	\$ 110,000.00	\$ 132,000.00	M/E/P	HV
Strayer MS	Interior LED Lighting Upgrade/Occupancy Sensors / lighting controls	1	2	2	4	2	4	5	5	175,000	SF	\$ 8.00	\$ 1,680,000.00	Interior	IL
Strayer MS	Interior LED Lighting Gym and Cafeteria (by QCSD)	1	2	2	4	2	4	5	5	15,000	SF	\$ 4.00	\$ 72,000.00	Interior	IL
Strayer MS	Exterior LED lighting (by QCSD)	1	2	2	4	2	4	5	5	25	EA	\$ 1,000.00	\$ 30,000.00	Site	EL
Trumbauersville ES	Sidewalk replacement	3	1	3	4	3	3	4	5	1,500	SF	\$ 20.00	\$ 36,000.00	Site	CO
Trumbauersville ES	Interior LED Lighting Upgrade/Occupancy Sensors / lighting controls	1	2	2	4	2	4	5	5	39,647	SF	\$ 8.00	\$ 380,611.20	Interior	IL
Trumbauersville ES	Exterior LED lighting (by QCSD)	1	2	2	4	2	4	5	5	16	EA	\$ 3,500.00	\$ 67,200.00	Site	EL
Facilities Building	Windows replacement in shop	2	0	3	2	1	5	5	4	500	SF	\$ 70.00	\$ 42,000.00	Building Envelope	WR
Facilities Building	New entrance doors/transom/sidelights	2	0	3	2	1	5	5	4	200	SF	\$ 70.00	\$ 16,800.00	Building Envelope	ED
Facilities Building	Replace exterior man doors (2 single)	2	0	3	2	1	5	5	4	2	EA	\$ 3,500.00	\$ 8,400.00	Building Envelope	ED
Facilities Building	Replace existing gas & diesel pumps (dispensers)	3	0	4	2	1	0	0	4	3	EA	\$ 4,500.00	\$ 16,200.00	Site	FTK
Facilities Building	Fume hood/welding station	3	0	4	2	1	0	0	4	1	LS	\$ 20,000.00	\$ 24,000.00	M/E/P	HV
Field House/Athletic Site	Replace existing paving from ticket booths to visitor's side	2	0	4	2	1	4	4	4	31,500	SF	\$ 2.00	\$ 75,600.00	Site	PA
Field House/Athletic Site	Replace synthetic turf	2	1	2	1	2	3	5	4	1	EA	\$ 425,000.00	\$ 510,000.00	Site	ES
Sixth Grade Center	Library carpet replacement (Floor slab investigation/remediation)	1	2	4	2	0	4	3	4	4,400	SF	\$ 8.00	\$ 42,240.00	Interior	FC
Sixth Grade Center	New gymnasium sound system	2	3	3	2	0	0	0	4	1	LS	\$ 25,000.00	\$ 30,000.00	Interior	IC
Sixth Grade Center	500+ locker replacement	0	3	3	2	0	4	5	4	500	EA	\$ 475.00	\$ 285,000.00	Interior	SL
Sixth Grade Center	Art room modification/new kiln (allowance)	0	3	3	2	0	4	5	4	1	LS	\$ 40,000.00	\$ 48,000.00	Interior	HV
Strayer MS	New bleachers - 200 seats (3 tier)	2	2	3	3	0	3	3	4	200	EA	\$ 250.00	\$ 60,000.00	Site	AF
Strayer MS	New track and football field - include fencing (allowance)	2	2	3	3	0	3	3	4	1	LS	\$ 600,000.00	\$ 720,000.00	Site	AF
Strayer MS	Replace wood split-rail fence	3	0	5	1	0	4	5	4	300	LF	\$ 40.00	\$ 14,400.00	Site	UN
Strayer MS	Rebuild baseball field and fencing	2	1	3	3	0	4	4	4	1	LS	\$ 310,000.00	\$ 372,000.00	Site	AF
Trumbauersville ES	Loading dock guardrail replacement	2	1	3	2	2	4	5	4	1	LS	\$ 15,000.00	\$ 18,000.00	Site	UN



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Building	Item	SA	EI	PC	DE	EI	AG	LE	PRIORITY	Quantity	Unit (sf, LF, etc.)	Unit Cost	Estimated Cost Including 20% Indirect Costs	Area	Category
Facilities Building	New walk-in refrigerator/freezer	1	1	2	3	1	3	4	3	1	LS	\$ 80,000.00	\$ 96,000.00	Interior	UN
High School	Gym floor refinishing (by QCSD maintenance program)	1	1	2	3	1	3	4	3	1	LS	\$ 15,000.00	\$ 18,000.00	Interior	AF
High School	Synthetic turf replacement	2	1	1	1	2	3	4	3	1	LS	\$ 425,000.00	\$ 510,000.00	Site	AF
Pfaff ES	New ceiling tiles (during lighting upgrade)	1	1	2	3	1	3	4	3	85,000	SF	\$ 2.00	\$ 204,000.00	Interior	CT
Pfaff ES	Gym floor refinishing (by QCSD maintenance program)	1	1	2	3	1	3	4	3	1	LS	\$ 15,000.00	\$ 18,000.00	Interior	AF
Pfaff ES	Window caulk joints	0	1	3	2	2	4	5	3	12,000	LF	\$ 12.00	\$ 172,800.00	Building Envelope	CA
Pfaff ES	Brick control joints	0	1	3	2	2	4	5	3	7,500	LF	\$ 12.00	\$ 108,000.00	Building Envelope	M
Pfaff ES	Prep and paint canopy structure	0	1	3	2	2	4	5	3	5,000	SF	\$ 8.00	\$ 48,000.00	Site	EP
Pfaff ES	Brick repair and cleaning of school marquee	0	1	3	2	2	4	5	3	1,500	SF	\$ 45.00	\$ 81,000.00	Site	M
Pfaff ES	Rear patio at main entrance retaining wall repair	0	1	3	2	2	4	5	3	480	SF	\$ 35.00	\$ 20,160.00	Site	M
Pfaff ES	Miscellaneous masonry repairs/replacement	0	1	3	2	2	4	5	3	300	SF	\$ 50.00	\$ 18,000.00	Building Envelope	M
Pfaff ES	Bench replacement at entrance	0	1	3	2	2	4	5	3	4	EA	\$ 2,500.00	\$ 12,000.00	Site	UN
Pfaff ES	Repoint brick wall cap	0	1	3	2	2	4	5	3	1	LS	\$ 15,000.00	\$ 18,000.00	Site	M
Pfaff ES	Repoint/repair curved brick site wall	0	1	3	2	2	4	5	3	1	LS	\$ 25,000.00	\$ 30,000.00	Site	M
Pfaff ES	Poured concrete cap on library site wall	0	1	3	2	2	4	5	3	1	LS	\$ 11,500.00	\$ 13,800.00	Site	CO
Pfaff ES	Poured concrete cap on low site wall	0	1	3	2	2	4	5	3	1	LS	\$ 5,500.00	\$ 6,600.00	Site	CO
Pfaff ES	Loading dock wall repairs/repointing/cleaning	0	1	3	2	2	4	5	3	1	LS	\$ 35,500.00	\$ 42,600.00	Site	M
Pfaff ES	Raise concrete at courtyard	0	1	3	2	2	4	5	3	1	LS	\$ 22,500.00	\$ 27,000.00	Site	CO
Pfaff ES	Repair retaining wall cap at courtyard	0	1	3	2	2	4	5	3	1	LS	\$ 10,500.00	\$ 12,600.00	Site	M
Pfaff ES	Loading dock stair and railing replacement	0	1	3	2	2	4	5	3	1	LS	\$ 35,000.00	\$ 42,000.00	Site	CO
Pfaff ES	New stage curtains allowance (By QCSD)	2	0	2	2	1	4	4	3	1	EA	\$ 10,000.00	\$ 12,000.00	Interior	SC
Pfaff ES	Roof replacement	0	1	2	2	2	4	5	3	40,000	SF	\$ 22.00	\$ 1,056,000.00	Building Envelope	R
Richland ES	New ceiling tiles (during lighting upgrade)	1	1	2	3	1	3	4	3	43,390	SF	\$ 2.00	\$ 104,136.00	Interior	CT
Richland ES	Gym floor refinishing (by QCSD maintenance program)	1	1	2	3	1	3	4	3	1	LS	\$ 15,000.00	\$ 18,000.00	Interior	AF
Richland ES	Miscellaneous masonry repairs	0	1	3	2	2	4	5	3	1,000	SF	\$ 25.00	\$ 30,000.00	Building Envelope	M



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Building	Item	SA	EI	PC	DE	EI	AG	LE	PRIORITY	Quantity	Unit (\$f, LF, etc.)	Unit Cost	Estimated Cost Including 20% Indirect Costs	Area	Category
Richland ES	Miscellaneous metal panel repairs	0	1	3	2	2	4	5	3	1	LS	\$ 15,000.00	\$ 18,000.00	Building Envelope	UN
Richland ES	Playground underdrain (allowance)	0	1	3	2	2	4	5	3	1	LS	\$ 25,000.00	\$ 30,000.00	Site	SS
Richland ES	Playground equipment replacement (Allowance)	0	1	3	2	2	4	5	3	1	EA	\$ 130,000.00	\$ 156,000.00	Site	AF
Richland ES	New stage curtains allowance (By QCSD)	2	0	2	2	1	4	4	3	1	EA	\$ 10,000.00	\$ 12,000.00	Interior	SC
Richland ES	Roof replacement	0	1	2	2	2	4	5	3	34,000	SF	\$ 16.00	\$ 652,800.00	Building Envelope	R
Sixth Grade Center	New ceiling tiles (during lighting upgrade)	1	1	2	3	1	3	4	3	85,579	SF	\$ 3.00	\$ 308,084.40	Interior	CT
Sixth Grade Center	Gym floor refinishing (by QCSD maintenance program)	1	1	2	3	1	3	4	3	1	LS	\$ 15,000.00	\$ 18,000.00	Interior	AF
Sixth Grade Center	Façade masonry cleaning	0	1	3	2	2	4	5	3	2,500	SF	\$ 1.00	\$ 3,000.00	Building Envelope	M
Sixth Grade Center	Mechanical screen wall masonry repairs	0	1	3	2	2	4	5	3	1,000	SF	\$ 20.00	\$ 24,000.00	Building Envelope	M
Sixth Grade Center	Loading dock repairs	0	1	3	2	2	4	5	3	1	LS	\$ 25,000.00	\$ 30,000.00	Site	UN
Strayer MS	New ceiling tiles (during lighting upgrade)	1	1	2	3	1	3	4	3	190,000	SF	\$ 2.00	\$ 456,000.00	Interior	CT
Strayer MS	Façade masonry cleaning	0	1	3	2	2	4	5	3	64,800	SF	\$ 0.50	\$ 38,880.00	Building Envelope	M
Strayer MS	Miscellaneous masonry repairs	0	1	3	2	2	4	5	3	1,000	SF	\$ 25.00	\$ 30,000.00	Building Envelope	M
Strayer MS	Repoint loading dock retaining wall	0	1	3	2	2	4	5	3	1,000	SF	\$ 25.00	\$ 30,000.00	Site	UN
Strayer MS	Paint exterior hollow metal doors and frames	0	1	3	2	2	4	5	3	15	EA	\$ 500.00	\$ 9,000.00	Building Envelope	ED
Strayer MS	Roof replacement	0	1	2	2	2	4	3	3	152,000	SF	\$ 22.00	\$ 4,012,800.00	Building Envelope	R
Strayer MS	Install storage building 32 x 60 (allowance)	0	1	3	4	1	0	0	3	1	LS	\$ 75,000.00	\$ 90,000.00	Site	UN
Trumbauersville ES	New ceiling tiles (during lighting upgrade)	1	1	2	3	1	3	4	3	54,647	SF	\$ 2.00	\$ 131,152.80	Interior	CT
Trumbauersville ES	Gym floor refinishing (by QCSD maintenance program)	1	1	2	3	1	3	4	3	1	EA	\$ 15,000.00	\$ 18,000.00	Interior	AF
Trumbauersville ES	Façade masonry cleaning	0	1	3	2	2	4	5	3	35,000	SF	\$ 0.50	\$ 21,000.00	Building Envelope	EP
Trumbauersville ES	Loading dock retaining wall repairs	0	1	3	2	2	4	5	3	500	SF	\$ 35.00	\$ 21,000.00	Site	M
Trumbauersville ES	Replacement of exterior doors (allowance)	0	1	3	2	2	4	5	3	6	EA	\$ 3,500.00	\$ 25,200.00	Building Envelope	ED
Trumbauersville ES	Loading dock repair / dock bumper	0	1	3	2	2	4	5	3	1	LS	\$ 7,000.00	\$ 8,400.00	Site	M
Trumbauersville ES	Flat roof replacement (2 areas)	0	1	2	2	2	4	3	3	3,500	SF	\$ 22.00	\$ 92,400.00	Building Envelope	R
Facilities Building	Mill and overlay all lots and drives	0	0	0	1	0	1	3	1	10,000	SY	\$ 2.00	\$ 24,000.00	Site	PA



**Quakertown Community School District
Capital Improvements Recommendations
DEI Project No. 231006**

DRAFT

Building	Item	SA	EI	PC	DE	EI	AG	LE	PRIORITY	Quantity	Unit (sf, LF, etc.)	Unit Cost	Estimated Cost Including 20% Indirect Costs	Area	Category
High School	Repave all lots and drives (mill and overlay)	0	0	1	2	0	2	2	1	328,750	SF	\$ 2.00	\$ 789,000.00	Interior	PA
Sixth Grade Center	Repave all lots and drives (mill and overlay)	0	0	1	2	0	2	2	1	117,000	SF	\$ 2.00	\$ 280,800.00	Site	PA
Trumbauersville ES	Repave all lots and drives (mill and overlay)	0	0	1	2	0	2	2	1	66,600	SF	\$ 2.00	\$ 159,840.00	Site	PA
Facilities Building	Roof Replacement (20 year as of 2019)	0	0	0	1	0	0	1	0	10,200	SF	\$ 13.00	\$ 159,120.00	Site	PA
Quakertown ES	Total Building Renovation								0	41,172	SF	\$ 300.00	\$ 14,821,920.00	Interior	R
													Grand Total:		
													\$ 36,400,534.80		

