















Guests:

Kathryn Strouse, Administrative Director Middle Bucks Institute of Technology

Robert Vining, Business Manager Middle Bucks Institute of Technology

Chris Bamber, Sr. Managing Consultant PFM

Joint Financing-Facilities Committee Meeting

Capital Improvements Planning and 5-Year Projection Model Presentation

November 7, 2019

<u>AGENDA</u>



Middle Bucks Institute of Technology:

- Capital Needs Assessment and Funding Plan
- Board Response Public Comments



Facilities Committee Items:

Facilities Improvements Planning Update

Hillcrest and Richboro Elementary School

Capital Projects Update

- Overview of 2020-2024 CIP 5-Year Plans (version v.8)
- CIP Budget Formula and 5-Year Budget Analysis

Consent/Board Agenda Items

Approval of Professional Services for HCES and RES Projects

<u>AGENDA</u>



Facilities Committee Items (continued):

Upcoming Meetings

- Act 34 Hearing for CR STAR Center
- Land Development and FACCOM Meetings

Finance Committee Items:

- Board Approval items
- 5-Year Projection Model Presentation

Public Comments

Middle Bucks Institute of Technology

Guests: Kathryn Strouse, Administrative Director

Robert Vining, Business Manager



- 1. Capital Needs Assessment and Funding Plan
- 2. Welding Lab Expansion
- 3. Other









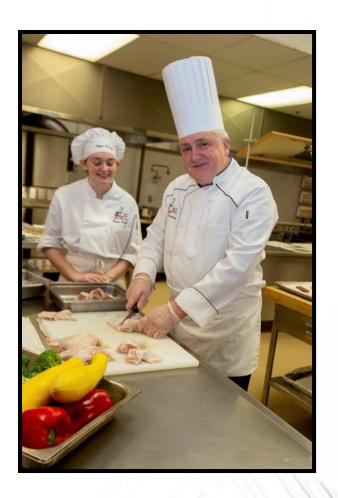


Capital Needs Assessment Report November 2019



1998 Renovation

- Culinary lab
- Restaurant built



2006 Renovation

- Classrooms/Labs renovated
- Electrical Systems; Lutron controlled lighting
- HVAC units
- Siemens environmental system
- Conversion to municipal water system
- Asbestos abatement
- ADA compliance; ramps, chairlift

Capital Needs Assessment

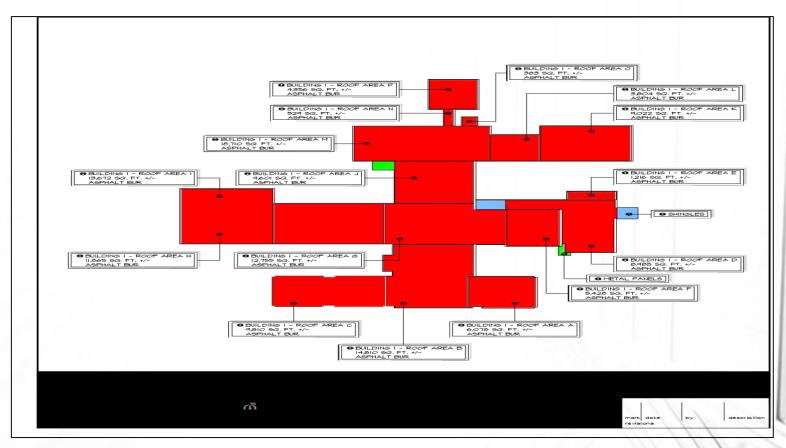
- Conducted August 2019 by Bustamante Engineers Inc.
 - Roof
 - HVAC Units
 - Asphalt
 - Concrete
 - Stone walls
 - Lintels



Roof – Overview



Engineering Study that shows failing condition of the roof





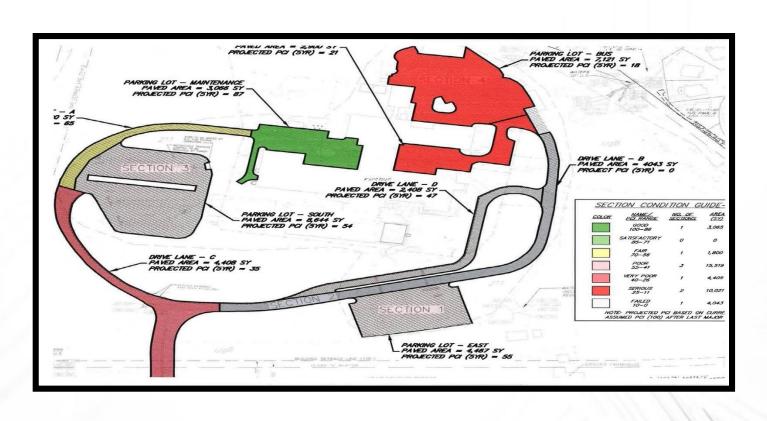




HVAC Units



Engineering study shows condition of asphalt



Asphalt – Back Parking Lot



Asphalt – Bus Parking Lot



Asphalt – Driveway



Asphalt – Automotive Area





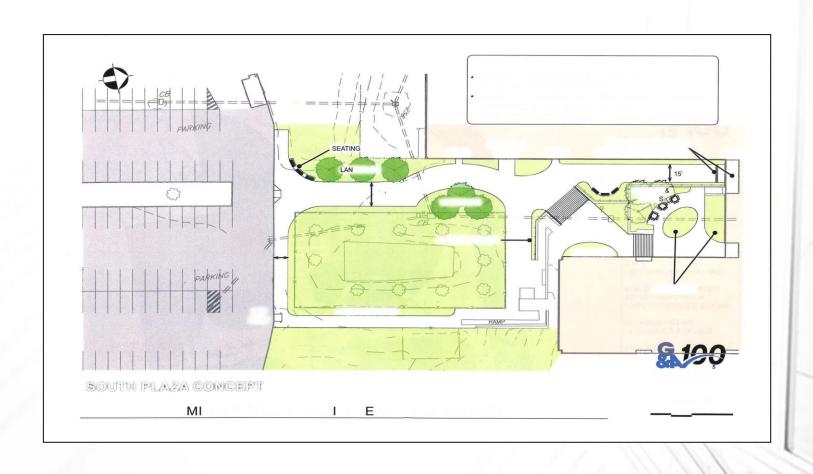




- Remove existing retaining wall
- Eliminates 6,800 sq. feet of existing concrete
- Reconfigures stairs to address both entrances
- New entry sign







- Improve ADA access
- Eliminates 3,000 sq. foot of existing concrete
- Improves pedestrian safety along existing walls

Retaining Walls – Repoint Stone



Lintels - Front Entrance of MBIT



Lintels



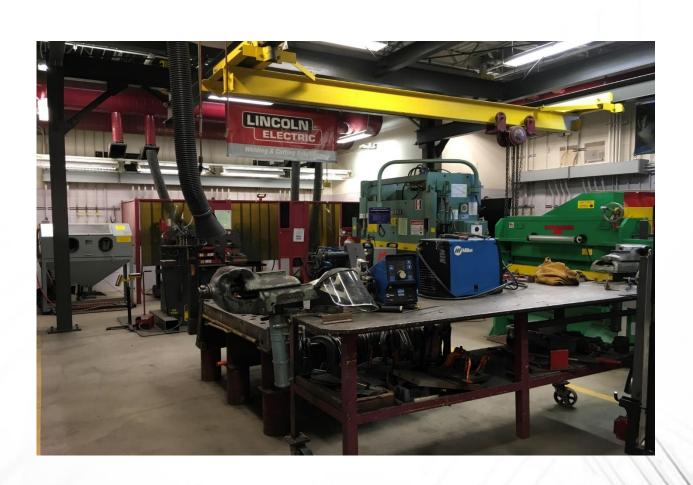
Lintels



Lintels



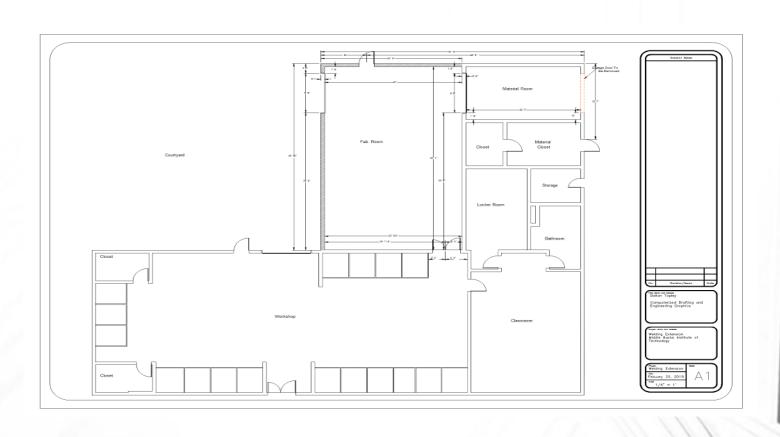
Welding Lab



Welding Lab



Welding Lab



QUESTIONS:



Facilities Improvements Projects

Planning Update







Facilities Improvements Planning Hillcrest and Richboro ES Renovations Projects:

- As previously discussed at the April 2019 FACCOM and Board Meetings, the HCES and RES Project start date are planned for Nov/Dec 2019 and Nov/Dec 2020 in order to meet project completion dates of 2022 and 2023 respectively.
- 2. Proposals have been provided by Schradergroup Architects and D'Huy Engineering, Inc for the Architectural and Construction Management Services.
- The approval of the noted services will be included on the 14NOV19 Board agenda. The fees are included in the project fees previously presented.
- 4. By documenting both projects concurrently the District will save approximately \$245,000 in professional fees. Since the bidding and construction phases will be staggered one year apart, no savings will be realized for the bid and construction administration phases. The fees also consider site investigative phase work previously performed at both schools.



Facilities Improvements Planning Hillcrest and Richboro ES Renovations Projects:

The fee savings are as follows: The A/E Fee Percentages are as follows:

Pre-Design Phase

SchraderGroup (\$ 32,659)

Schematic Design Phase

SchraderGroup (\$ 61,235)

Design Development Phase

SchraderGroup (\$ 81,647) D'Huy Engineering, Inc. (\$ 11,000)

Construction Document Phase

SchraderGroup (\$ 48,988)

D'Huy Engineering, Inc. (\$ 11,000)

TOTAL SAVINGS (\$246,529)

HCES Project: 5.63%

RES Project: 3.63%

GRAND TOTAL FEE %: 4.63%

Lump Sum Fees based on \$16,329,300 Construction Costs or Total Est. Const. Cost of \$32,658,600:

HCES Project SGA \$ 918,665 HCES Project D'Huy \$ 496,000 RES Project SGA \$ 709,338

RES Project D'Huy \$ 487,000

GRAND TOTAL FEE \$: \$ 2,611,003





Hillcrest and Richboro Elementary School Renovations Projects Preliminary Project Schedule Task Building Start Date Completion Date

HCES and **RES**

HCES and RES

HCES and RES

HES and RES

HCES

HCES

RES

RES

Pre-Design Phase

Schematic Design Phase

Design Development

Construction Documents

Procurement Phase

Construction Phase

Procurement Phase

Construction Phase

November 2019

February 2020

May 2020

September 2020

January 2021

June 2021

November 2021

June 2022

January 2020

April 2020

August 2020

December 2020

February 2021

July 2022

February 2022

July 2023

Overview of 2020-2024 CIP 5-Year Plan (version v.8)

(See 100CT19 FACCOM Meeting for full presentation)



ΤΔΙ	B 31	FIVE YEAR CAPITAL IMPROVEMENT	S PROJECTS	BUI	OGET PRO	JE	CTION (2020	0 - :	2024)				(Š)
1741	5	Years 2 through 5 will be compour	ded automatic	ally b	y '' ' nflatio	on f	factor in cell I5					CC	UNCIL ROCK
FINAL			Version 4.0									301	OUL DISTRICT
DRAFT							Inf	flati	on Factor (%)				5.00%
		FIVE YEAR CAPITAL IMPROVEMEN	TS PROJECTS PE	SOJE	MUZ	MA	RY OF PROJECT	TS A	ND FINANCES	•			
		10	0-Oct-19										
ITEM	SCHOOL	EXPENSES AND FINANCING	PRIORITY		2019-20		2020-2021		2021-22		2022-23		2023-24
#	ID		11001011	(Su	mmer 2020)	(S	iummer 2021)	(Sı	ımmer 2022)	(Su	ımmer 2023)	(Su	mmer 2024)
	CONSTRU	CTION PROJECTS & EXPENSES											
1.1	CES	Add exterior site lighting to select areas to improve security	1 2020	\$	18,432	\$	19,354	\$	20,321	\$	21,337	\$	22,404
1.2	CRHSN	Turf replacement at Walt Snyder Stadium	1 2020	\$	843,648	\$	885,830	\$	930,122	\$	976,628	\$	1,025,459
1.3		Resurface synthetic track and re-line	1 2020	\$	329,109	\$		\$	362,843	\$	380,985	\$	400,034
1.4		Pave 'D' areas of track when resurfacing	1 2020	\$	197,466	\$,	\$	217,706	\$	228,592	\$	240,021
1.5	CRHSN	Add guardrail at edge of paving adjacent to natatorium to prevent vehicles from accessing fields (Include gated access)	1 2020	\$	40,000	\$	42,000	\$	44,100	\$	46,305	\$	48,620
1.6	CRHSN	Engage Engineer to study building stormwater collection system. (Study and Report Allowance)	1 2020	\$	50,000	\$	52,500	\$	55,125	\$	57,881	\$	60,775
1.7	CRHSS	Replace failed insulated glazing units at Gym Links and Library	1 2020	\$	30,673	\$	32,207	\$	33,817	\$	35,508	\$	37,283
1.8	CRHSS	Remove and replace existing tennis and basketball courts	1 2020	\$	1,500,000	\$	1,575,000	\$	1,653,750	\$	1,736,438	\$	1,823,259
1.9	HCES	Replace intercom head end system	1 2020	\$	15,000	\$		\$	16,538	\$	17,364	\$	18,233
1.10		Replace intercom head end system	1 2020	\$	15,000	\$		\$	16,538	\$	17,364	\$	18,233
1.11		Replace intercom head end system	1 2020	\$	19,000	\$	·	\$	20,948	\$	21,995	\$	23,095
1.12		Replace intercom head end system	1 2020	\$	15,000	\$	15,750	\$	16,538	\$	17,364	\$	18,233
<u>1.13</u>	ALL	Unplanned/Unforeseen projects	1 2020	\$	<u>75,000</u>	 							
а	TOTAL CO	NSTRUCTION PROJECT EXPENSES		\$	3,148,328	\$	5,216,475	\$	3,497,915	\$	3,921,930	\$	3,093,317
	DEFERRED	PROJECT COSTS (Included in Total Project Expense	es Above)	\$	-	\$	645,933	\$	1,174,729	\$	3,127,869	\$	1,128,205
	SOFT COST	TS (PROFESSIONAL FEES & CONTINGENCIES)											
b	A/E Fees,	Permits, Contingencies (30%)		\$	944,498	\$	1,564,943	\$	1,049,375	\$	1,176,579	\$	927,995
С	Design Co	ntingency (5%)		\$	157,416	\$	260,824	\$	174,896	\$	196,097	\$	154,666
d	TOTAL SO	FT COSTS		\$	1,101,915	\$	1,825,766	\$	1,224,270	\$	1,372,676	\$	1,082,661

4,250,243 \$

TOTAL PROJECT COST (EXCLUDING FINANCING)

7,042,241 \$

4,722,186 \$

5,294,606 \$

4,175,978

ΤΔΙ	AB 31 COUNCIL ROCK SCHOOL DISTRICT												
IA	J J I	FIVE YEAR CAPITAL IMPROVEMENT	S PROJECTS	BUI	DGET PRO	JECTIC	ON (202	0 -	2024)				
		Years 2 through 5 will be compoun	ded automatic	ally b	y the inflation	on fact	cell IS	5				CC	OUNCIL ROCK
FINAL			Version 4.0									SCI	OOL DISTRICT
DRAFT							lr	flati	on Factor (%)			5.00%	
		FIVE YEAR CAPITAL IMPROVEMEN	TS PROJECTS PE	ROJEC	CTION - SUMI	MAR)JEC	CTS A	ND FINANCES	6			
		10)-Oct-19				<u> </u>						
ITEM	SCHOOL	EXPENSES AND FINANCING	PRIORITY		2019-20	202	0-2021		2021-22	2022-23		2023-24	
#	ID	EXPENSES AND FINANCING	PRIORITI	(Su	mmer 2020)	(Sumr	ner 2021)	(Sı	ımmer 2022)	(Su	mmer 2023)	(Su	mmer 2024)
	CONSTRU	CTION PROJECTS & EXPENSES											
2.1		Add foundation drainage	1 2021	\$	928,200	\$	974,610		1,023,341	\$	1,074,508	\$	1,128,233
2.2	CC	Repair concrete areaways	1 2021	\$	327,600	\$	343,980	\$	361,179	\$	379,238	\$	398,200
2.3	CES	Mill and overlay asphalt sidewalk accessing Hill	1 2021										
2.5	CLS	Avenue (east Side)	1 2021	\$	5,678	\$	5,962		6,260	\$	6,573	\$	6,902
2.4	CES	Parking lot maintenance	1 2021	\$	100,394	\$	105,414	\$	110,684	\$	116,219	\$	122,030
2.5	CES	Reconfigure loading dock curb and paving repairs	1 2021	\$	44,712	\$	46,948	\$	49,295	\$	51,760	\$	54,348
2.6	CRHSN	Parking lot maintenance	1 2021	\$	183,072	\$	192,226	\$	201,837	\$	211,929	\$	222,525
2.7	CRHSN	Replace starting blocks in natatorium (total of 7)	1 2021	\$	40,000	\$	42,000	\$	44,100	\$	46,305	\$	48,620
2.8	CRHSS	Parking lot maintenance	1 2021	\$	176,030	\$	184,832	\$	194,073	\$	203,777	\$	213,966
2.9	MMWES	Parking lot maintenance	1 2021	\$	150,000	\$	157,500	\$	165,375	\$	173,644	\$	182,326
2.10	NES	Roof replacement	1 2021	\$	2,940,957	\$ 3	3,088,005	\$	3,242,405	\$	3,404,525	\$	3,574,752
2.11	ALL	Unplanned/Unforeseen projects	1 2021			\$	<u>75,000</u>	↓		<u> </u>			
a		NSTRUCTION PROJECT EXPENSES		\$	3,148,328	\$!	5 <mark>,216,475</mark>		3,497,915	\$	3,921,930	\$	3,093,317
	DEFERRED	PROJECT COSTS (Included in Total Project Expense	s Above)	\$	-	\$	645,933	\$	1,174,729	\$	3,127,869	\$	1,128,205
	SOFT COST	TS (PROFESSIONAL FEES & CONTINGENCIES)											
b	A/E Fees,	Permits, Contingencies (30%)		\$	944,498	\$:	1,564,943	\$	1,049,375	\$	1,176,579	\$	927,995
С	Design Co	ntingency (5%)		\$	157,416	\$	260,824	\$	174,896	\$	196,097	\$	154,666
d	TOTAL SOI	FT COSTS		\$	1,101,915	\$:	1,825,766	\$	1,224,270	\$	1,372,676	\$	1,082,661

4,250,243 \$

7,042,241 \$

4,722,186 \$

5,294,606 \$

4,175,978

TOTAL PROJECT COST (EXCLUDING FINANCING)

TAB 31

SCHOOL

ID

CES

CES

CRHSN

CRHSN

CRHSN

CRHSS

CRHSS

CRHSS

CRHSS

CRHSS

GES

HES

HES

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ALL

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ITEM

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b

С

CONSTRUCTION PROJECTS & EXPENSES Parking lot maintenance

EXPENSES AND FINANCING

Add metal panels at cafeteria clerestory

Paint Allowance (approx. 25% of interior)

Replace deteriorated lintels (Allowance)

Paint Allowance (approx. 25% of interior)

Provide safety netting at athletic fields

Replace auditorium sound system

Replace stage lighting

adjacent to the YMCA

TOTAL CONSTRUCTION PROJECT EXPENSES

A/E Fees, Permits, Contingencies (30%)

TOTAL PROJECT COST (EXCLUDING FINANCING)

Design Contingency (5%)

TOTAL SOFT COSTS

MMWES Upgrade fire alarm system

Parking lot maintenance

Parking lot maintenance

Roof replacement (3 buildings)

Unplanned/Unforeseen projects

SOFT COSTS (PROFESSIONAL FEES & CONTINGENCIES)

Misc. concrete sidewalk repairs (Allowance)

Misc. concrete sidewalk repairs (Allowance)

Replace clocks throughout with new system

Provide asphalt paving at stone parking lot

DEFERRED PROJECT COSTS (Included in Total Project Expenses Above)

COUNCIL ROCK SCHOOL DISTRICT

FIVE YEAR CAPITAL IMPROVEMENTS PROJECTS BUDGET PROJECTION (2020 - 2024) Years 2 through 5 will be compounded automatically by the inflation factor in cell I5

Version 4.0

PRIORITY

1 2022

1 2022

2 2022

1 2022

1 2022

2 2022

1 2022

1 2022

2 2022

2 2022

1 2022

1 2022

3 2022

1 2022

1 2022

1 2022

1 2022

10-Oct-19

FIVE YEAR CAPITAL IMPROVEMENTS PROJECTS PROJECTION - SUMMARY OF PROJECTS AND

2019-20

(Summer 2020)

\$

\$

\$

\$

\$

\$

\$

\$

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\$

\$

\$

43,680

210,101

62,000

81,120

109,200

250,000

165,375

40,000

511,190

383,394

245,700

118,110

15,000

96,533

257,312

515,970

3,148,328

944,498

157,416

4,250,243 \$

1,101,915

\$

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\$

\$

\$

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or (%)

NCES

48,157

231,636

68,355

89,435

120,393

275,625

182,326

44,100

563,587

422,692

270,884

130,216

16,538

106,428

283,686

568,857

75,000

3,497,915

1,174,729

1.049.375

1,224,270

174,896

4,722,186 \$

\$

\$

\$

\$

\$

\$

2021-22

(Summer 2022)

2022-23

(Summer 2023)

50,565

243,218

71,773

93,907

126,413

289,406

191,442

46,305

591,766

443,826

284,428

136,727

17,364

111,749

297,871

597,300

3,921,930

3,127,869

1,176,579

1,372,676

196,097

5,294,606 \$

\$

\$

\$

\$

5.00%

2023-24

(Summer 2024)

53,093

255,379

75,361

98,602

132,733

303,877

201,014

48,620

621,355

466,018

298,650

143,563

18,233

117,336

312,764

627,165

3,093,317

1,128,205

927,995

154,666

1,082,661

4,175,978

Inflation

\$

\$

2020-2021

(Summer 2021)

45,864

220,606

65,100

85,176

114,660

262,500

173,644

42,000

536,750

402,564

257,985

124,016

15,750

101,360

541,769

5,216,475 \$

645,933

1.564.943 \$

7,042,241 \$

1,825,766

260,824 \$

\$

270,178 **\$**

TAB 31

FINAL

DRAFT

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COUNCIL ROCK SCHOOL DISTRICT

FIVE YEAR CAPITAL IMPROVEMENTS PROJECTS BUDGET PROJECTION (2020 - 2024) Years 2 through 5 will be compounded automatically by the inflation factor in cell 15

Version 4.0

5.00%

Inflation Factor (%)

2020-2021

(Summer 2021)

137,813 | \$

16,538 | \$

90,538 | \$

71,548 | \$

2,682,720

59,623

288,750

63,000 | \$

78,750

5,216,475 \$

1,564,943 \$

260,824

1,825,766

7,042,241 \$

645,933 \$

\$

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2022-23

(Summer 2023)

151,938

18,233

99,819

78,882

65,735

318,347

69,458

86,822

75,000

3,921,930

3,127,869

1,176,579

196,097

5,294,606 \$

1,372,676

2,957,698

2023-24

(Summer 2024)

159,535

19,144

82,826

69,021

334,264

72,930

91,163

3,093,317

1,128,205

927,995

154,666

1,082,661

4,175,978

104,809

3,105,583

\$

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2021-22

(Summer 2022)

144,703

17,364

95,065

75,125

62,604

303,188

66,150

82,688

3,497,915

1,174,729

1,049,375

1,224,270

174,896

4,722,186 \$

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Ś

\$

\$

2,816,856

FIVE YEAR CAPITAL IMPROVEMENTS PROJECTS PROJECTION - SUMMARY OF PROJECTS AND FINANCES

PRIORITY

1 2023

2 2023

1 2023

3 2023

2 2023

2 2023

1 2023

2 2023

1 2023

1 2023

2019-20

(Summer 2020)

\$

\$

\$

\$

\$

131,250

15,750

86,227

68,141

56.784

275,000

60,000

75,000

3,148,328

944,498

157,416

4,250,243 \$

1.101.915

2,554,971

\$

\$

\$

\$

\$

\$

\$

10-Oct-19

SCHOOL ITEM

CONSTRUCTION PROJECTS & EXPENSES

ID

CC

CC

CES

CRHSN

CRHSN

CRHSS

CRHSS

GES

ALL

EXPENSES AND FINANCING

Refinish wood floors at HCR1, HCR2 and hallway

Add dedicated boiler to support natatorium (will eliminate the need to operate a primary building

DEFERRED PROJECT COSTS (Included in Total Project Expenses Above)

Replace precast concrete honeycomb single

Paint Allowance (approx. 25% of interior)

Paint Allowance (approx. 25% of interior)

Repair areas of failed terrazzo floors

Unplanned/Unforeseen projects

SOFT COSTS (PROFESSIONAL FEES & CONTINGENCIES)

Repair plaster soffits, ceilings, walls, etc.

Replace carpet in board room

Upgrade BMS controls to JCI

glazed window systems

boiler year round)

TOTAL CONSTRUCTION PROJECT EXPENSES

A/E Fees, Permits, Contingencies (30%) Design Contingency (5%) **TOTAL SOFT COSTS** TOTAL PROJECT COST (EXCLUDING FINANCING)

TAB 31

TOTAL CONSTRUCTION PROJECT EXPENSES

A/E Fees, Permits, Contingencies (30%)

TOTAL PROJECT COST (EXCLUDING FINANCING)

Design Contingency (5%)

TOTAL SOFT COSTS

SOFT COSTS (PROFESSIONAL FEES & CONTINGENCIES)

DEFERRED PROJECT COSTS (Included in Total Project Expenses Above)

COUNCIL ROCK SCHOOL DISTRICT

FIVE YEAR CAPITAL IMPROVEMENTS PROJECTS BUDGET PROJECTION (2020 - 2024)

Years 2 through 5 will be compounded automatically by the inflation factor in cell I5

FINAL			Version 4.0											
DRAFT							Inf	latio	n Factor (%)				5	
		FIVE YEAR CAPITAL IMPROVEMEN	TS PROJECTS PR	OJEC	TION - SUMI	MAF	RY OF PROJECT	rs ar	ND FINANCES			_	7	7
		10	0-Oct-19											
ITEM	SCHOOL	EVDENICES AND FINIANCING	DDIODITY	ORITY 2019-20 2020-2021			2021-22	2022-23		2023-24				
#	ID	EXPENSES AND FINANCING	PRIORITY	(Sur	nmer 2020)	(Su	(Summer 2021)		(Summer 2022)		(Summer 2023)		(Summer 2024)	
	CONSTRU	CTION PROJECTS & EXPENSES												
5.1	CC	Add emergency generator & transfer switch	3 2024	\$	212,996	\$	223,646	\$	234,828	\$	246,569	\$	258	3,898
5.2	CRHSN	Complete renovations of auditorium	2 2024	\$	728,000	\$	764,400	\$	802,620	\$	842,751	\$	884	1,889
5.3	CRHSN	Replace roof areas L,P,R and V	1 2024	\$	700,000	\$	735,000	\$	771,750	\$	810,338	\$	850),854
5.4	CRHSN	Upgrade kitchen equipment	1 2024	\$	715,181	\$	750,940	\$	788,487	\$	827,911	\$	869	9,307
5.5	HES	Paint Allowance (approx. 25% of interior)	2 2024	\$	54,000	\$	56,700	\$	59,535	\$	62,512	\$	65	5,637
5.6	MMWES	Paint Allowance (approx. 25% of interior)	2 2024	\$	73,000	\$	76,650	\$	80,483	\$	84,507	\$	88	3,732
5.7	ALL	Unplanned/Unforeseen projects	1 2024									\$	75	5,000

\$

3,148,328

944,498

1,101,915

4,250,243

157,416 \$

5,216,475 \$

645,933

1,564,943 | \$

1,825,766

7,042,241 \$

260,824 \$

3,497,915 \$

1,049,375 \$

174,896 \$

1,174,729

1,224,270

4,722,186

3,921,930

3,127,869

1,372,676

1,176,579 \$

5,294,606 \$

196,097 \$

3,093,317

1,128,205

927,995

154,666

1,082,661

4,175,978

	SOFT COST	rs (PROFESSIONAL FEES & CONTINGENCIES)											
b	A/E Fees,	Permits, Contingencies (30%)	·	\$	944,498	\$	1,564,943	\$	1,049,375	\$	1,176,579	\$	927,995
С	Design Co	ntingency (5%)		\$	157,416	\$	260,824	\$	174,896	\$	196,097	\$	154,666
d	TOTAL SOF	T COSTS		\$	1,101,915	\$	1,825,766	\$	1,224,270	\$	1,372,676	\$	1,082,661
е	TOTAL PRO	DJECT COST (EXCLUDING FINAI Project Costs (A	Annually)	\$	4,250,243	\$	7,042,241	\$	4,722,186	\$	5,294,606	\$	4,175,978
'	FIVE YEAR	TOTAL COST											
f							To	otal P	roject Cos	ts (5	5-Years)	\$	25,485,254
				_					_				
	BUDGET B	Y PRIORITY					•						
		Y PRIORITY ngs are shown for break-out purposes only and	Priority		2019-20		2020-21	2	2021-22		2022-23		2023-24
The price	ority rankir		Priority Ranking	(Su	2019-20 Immer 2020)	(Su	2020-21 ummer 2021)		2021-22 nmer 2022)	(Su	2022-23 mmer 2023)	(Su	2023-24 Immer 2024)
The pric	ority rankir t intended t	ngs are shown for break-out purposes only and	Ranking		ımmer 2020)		ummer 2021)	(Sum	mer 2022)		mmer 2023)	(Su	mmer 2024)
The pric	ority rankir t intended t	ngs are shown for break-out purposes only and o support deferring any work. Ill Priority 1 Items and \$75,000 Allowance for	•	(Su		(Su			_	(Su		(Su	
The prior are not	iority rankin t intended to Includes A Unplanned	ngs are shown for break-out purposes only and o support deferring any work. Ill Priority 1 Items and \$75,000 Allowance for	Ranking		ımmer 2020)		ummer 2021)	(Sum	mer 2022)		mmer 2023)	(Su	mmer 2024)

\$

3

- \$

- \$

16,538 \$

78,882 \$



258,898

a3

Includes All Priority 3 Items Only

d1	TOTAL SOFT COSTS	1,101	915	1,825,766	752,892	1,173,869	628,306
e1	PRIORITY 1 - TOTAL PROJECT COST (EXCLUDING FINANCING)	4,250	243	7,042,241	2,904,010	4,527,782	2,423,468
	PRIORITY 2 - SOFT COSTS (PROFESSIONAL FEES & CONTINGENCIES)						
b2	A/E Fees, Permits, Contingencies (30%)	\$	- 5	-	\$ 399,078	\$ 146,741	\$ 311,777
c2	Design Contingency (5%)	\$	- 5	, -	\$ 66,513	\$ 24,457	\$ 51,963
d2	TOTAL SOFT COSTS	\$	- \$	\$ -	\$ 465,591	\$ 171,198	\$ 363,740
e2	PRIORITY 2 - TOTAL PROJECT COST (EXCLUDING FINANCING)	\$	- \$; -	\$ 1,795,849	\$ 660,333	\$ 1,402,998
	PRIORITY 3 - SOFT COSTS (PROFESSIONAL FEES & CONTINGENCIES)						
b3	A/E Fees, Permits, Contingencies (30%)	\$	- 5	-	\$ 4,961	\$ 23,665	\$ 77,669
c3	Design Contingency (5%)	\$	- 5		\$ 827	\$ 3,944	\$ 12,945
d3	TOTAL SOFT COSTS	\$	- \$	-	\$ 5,788	\$ 27,609	\$ 90,614

\$

\$

4,250,243 \$

944,498

157,416

1,564,943

260,824

645,336

107,556

22,326

4,722,186 \$

\$

7,042,241 \$

1,006,174

167,696

106,490

5,294,606

538,548

89,758

PRIORITY 1 - SOFT COSTS (PROFESSIONAL FEES & CONTINGENCIES)

PRIORITY 3 - TOTAL PROJECT COST (EXCLUDING FINANCING)

FIVE YEAR TOTAL COST (Confirmed)

A/E Fees, Permits, Contingencies (30%)

Design Contingency (5%)

b1

c1



349,512

4,175,978

25,485,254

f1

3	included to address these potential costs.					
4	Deferring projects may increase the noted estimated project cost beyond the inflation factor. Considerations include, but are not limited to impact to education, domino effect to other building elements, safety concerns, physical conditions, etc.					
5	The cost estimates are subject to change based on economic conditions. The current inflationary factor is noted in cell I5. All budgetary costs are compounded annually.					
6	Each listed school year includes an allowance of \$75,000 for unplanned/unforeseen projects. Historically, facilities has recorded unplanned projects in this range.					
_ /	The list excludes the security camera replacement program and other security hardware. These items will be included in the Security Operating Budget.					
8	The list excludes significant CIP items that are required at SFES, HCES, RES and NES. The project costs have been reduced based on the master planned approved on 25APR19.					
9	The items have been prioritized for each school year. The priority is subject to change based on the annual assessment of the items listed. The list is also subject to change based on the ongoing use of the facilities, age of equipment, current conditions, etc.					
	CIP items subject to the Master Planning process relate to, but are not necessarily limited to the following facilities: RMS (after planned temporary use for RHES, AST, HCES and RES ending 2023). Pending the final determination, projects such as roof replacements would require reconsideration or scope changes.					
11	Projects for following four years have been prioritized and will be re-sorted next year by priority based on current needs and available funding at that point					
	Indicates deferred project from previous year(s)					
	Indicates non-renewal project (one-time project, programmatic, security or master planning item)					
	Indicates planned projects for noted year					

List includes only preventative maintenance, planned repairs/replacements, and some minor master planning items.

The cost estimates will be updated after the field investigations and programming phase. A design contingency of 5% is

List excludes building renovations, additions, programmatic changes, principal requests, site improvements, zoning approvals,

NOTES:

2

etc.

TAB 31

CIP Budgeting Formula and 5-Year Budget Analysis

The Capital Improvement Plan

Summary of Projected 5-Year Capital Improvements Projects

Year for Capital Improvements Project	Total Estimated Construction Cost	Total Soft Costs (Design Contingency, A/E Fees, Permits, Construction Contingency)	Total Estimated Project Cost (Including Projects Deferred from Prior Years)	Total of Deferred Projects
2019 – 2020 (Summer 2020)	\$ 3,148,328	\$ 1,101,915	\$4,250,243	\$ 0
2020 – 2021 (Summer 2021)	\$5,216,475	\$ 1,825,766	\$ 7,042,241	\$ 645,933
2021 – 2022 (Summer 2020)	\$ 3,497,915	\$ 1,224,270	\$ 4,722,186	\$ 1,174729
2022 – 2023 (Summer 2020)	\$ 3,921,930	\$ 1,372,676	\$ 5,294,606	\$ 3,127,869
2023 – 2024 (Summer 2020)	\$ 3,093,317	\$ 1,082,661	\$ 4,175,978	\$ 1,128,205
TOTALS (5-Years)	\$ 18,877,965	\$ 6,607,288	\$ 25,485,254	\$ 6,076,736



Capital Renewal Planning - Recommended Guidelines and Cost Allocations:

APPA Formula:

Annual budget allocation for routine maintenance and capital renewal is in the range of **2% to 4**% of the aggregate Current Replacement Value (CRV) - **excluding major infrastructure**, additions, renovations, non-renewal projects, etc.

Footnotes:

- 1) **Association of Physical Plant Administrators,** Now known as **APPA**, Leadership in Educational Facilities. APPA uses **National Center for Educational Statistics**.
- 2) The **National Center for Education Statistics** (NCES) is the part of the United States Department of Education's Institute of Education Sciences (IES) that collects, analyzes, and publishes statistics on education and public school district finance information in the United States.
- 3) Percentage recognition (Intentionally reduced by CRSD)



Capital Renewal Planning – APPA Recommended Guidelines and Cost Allocations:

APPA Formula (Continued):

(a) Routine Maintenance =	.5% to 1.5% (CRV
	4 FO/ 1 2 FO/ /CD

(b) Capital Renewal = 1.5% to 2.5% (CRV)

Recurring annual budget guideline =

(a) + (b) = 2.0% to 4.0% Current Replacement Value

```
APPA - Routine Maintenance = $ 1.95M to $ 5.85M
APPA - Capital Renewal = $ 5.85M to $ 9.75M
Total budget $ 7.80M to $15.6M
```



Capital Renewal Planning - Recommended Guidelines and Cost Allocations:

APPA Formula (Continued):

When a backlog of deferred maintenance has been allowed to accumulate, spending must exceed the recommended budget until the backlog has been eliminated.

Note: Deferred work remains at \$ 6,076,736

Based on the APPA formula, CRSD should be appropriating **\$7.8M to \$15.6M annually** towards Routine Maintenance and Capital Improvements Projects. (1,950,000 SF x \$200.00 x 2% - 4% minimally).



<u>Capital Renewal Planning – CRSD Formula and Cost</u> <u>Allocations for Board Consideration</u>:

CRSD Formula:

Recommends appropriating \$3.9M to \$7.8M annually towards Capital Improvements Projects. (*1,950,000 SF x \$200.00 x 1% - 2% minimally)

Recommends exclusion of Fees and Contingencies (~25-30%). Included in the CRSD formula

*Note: Square footage includes 10 ES, 2 MS, RMS and 2 HS's), <u>Excludes</u> all ancillary buildings.



Considerations include, but are not limited to:

- ✓ CIP budget should <u>exclude</u> Non-Renewal projects such as security enhancements, master planning type projects, educational programming, furniture, fixtures an equipment, etc.
- ✓ Plan should be developed with Capital Renewal/ CIP/Major Maintenance type projects such as paving restoration, sidewalk repairs, roof reconditioning, masonry restoration, equipment replacement, finishes, field repairs, fencing, etc.
- ✓ Plan should be dynamic and updated annually to reflect actual conditions and budget.

Avoid deferred maintenance at all costs





Deferred Maintenance

Considerations:

- ✓ The bigger the deferred maintenance number gets, the harder it is going to be to maintain the facility at a serviceable level. As shown on 5-Year Plan
- Deferred maintenance can risk unplanned school closings resulting from failed equipment, failed utilities, environmental issues, etc.
- ✓ Deferred maintenance costs can add significant costs to work scheduled through a Capital Improvements Plan
- ✓ Some formulas suggest that for every \$1 of deferred maintenance costs, \$2-4 will be needed later in Capital Costs.

The Capital Improvement Plan

Summary of Projected 5-Year Capital Improvements Projects

Year for Capital Improvements Project	Total Estimated Construction Cost	Total Soft Costs (Design Contingency, A/E Fees, Permits, Construction Contingency)	Total Estimated Project Cost (Including Projects Deferred from Prior Years)	Total of Deferred Projects
TOTALS (5-Years)	\$ 18,877,965	\$ 6,607,288	\$ 25,485,254	\$ 6,076,736

Final Analysis - Current 5-Year Plan





- 5-Year estimated costs when averaged (including deferred work): \$5.1M annually
- 5-Year estimated costs when averaged (deferred work only): \$1.2M annually
- **3** 5-Year estimated costs when averaged (excluding deferred work): \$ **3.9M annually**

CRSD Formula:

Recommends appropriating \$3.9M to \$7.8M annually towards Capital Improvements Projects.

Min. \$3.9M per CRSD formula

If district has the ability to address deferred work



Suggest \$4.0 - 4.5M Annually (to offset some soft costs)

Capital Renewal Planning Formula and Considerations Capital Renewal Planning – Budget Considerations:

In Summary:

- Consider committing to a \$4M Annual CIP Budget to maintain all facilities including, those recently renovated and expanded, projects under construction and planned projects including CR STAR Center, RHES, SFES, HCES, RES, CRHS North and South Synthetic Turf.
- 2. The commitment of an annual budget of \$4M over the next 5 years coupled with the potential borrowing of ~\$5.5M would allow the District to address the deferred projects projected through the year 2024.
- 3. The budget for the upcoming 2020 CIP projects is \$4,250,243.
- 4. The request for the approval of a total project budget in the amount of \$4,250,243 will be included on the 14NOV19 Board Meeting agenda unless an alternative amount is suggested based on this evenings discussions.



CIP NEXT STEPS and SCHEDULE



Board Meeting

D'Huy and Team

FACCOM Meeting

Board Meeting

N/A

N/A

	CIP INLA I STE	rs and scri	COUNCIL ROCK SCHOOL DISTRICT
Item No.	Action Item	Date	Meeting
1	Update and Distribute the Annual CIP v.8 (2019-2020)	100CT19	FACCOM Meeting
2	Discuss Annual and Long Term Budget Considerations and Possible	07NOV19	Joint FACCOM/FINCOM Meeting

14NOV19

15NOV19

15NOV19 - 09JAN20

23JAN20

24JAN20 - 29JUN20

29JUN20 - 30AUG20

Options

Projects

6

8

Board Approval of Budget for

Commence with 2019/20 CIP

Board Approval - Award Bids of

Submittals, Schedules, Procure

Materials, Permits, Etc.

Construction Activities

2019/2020 Summer Projects

2020 Summer Projects

Document, Bid, Bid

Recommendations

Board Agenda Items

(November 17, 2019)



Board Agenda Items (CA=Consent Agenda BA=Board Agenda)



Hillcrest and Richboro Renovations Projects – Professional Services

Hillcrest and Richboro ES Renovations Projects <u>Professional Services</u>

SchraderGroup Architects:

- 1) Pre-Design, Schematic Design, Design Development, Construction Documents, Procurement, Bid Phase and Construction Administration Phase Services
- 2) A documented reduction of fees in the amount of \$224,529 for combining the Pre-Design, Schematic Design, Design development and Construction Phase Services and based on our ongoing teaming and value professional relationship
- 3) Fees include Architectural, Civil, Structural, Mechanical, Plumbing and Electrical Design
- 4) HCES Total Fees: \$ 918,665 RES Total Fees: \$ 709,338

D'Huy Engineering, Inc.:

- 1) Pre-Design, Schematic Design, Design Development, Construction Documents, Procurement, Bid Phase and Construction Administration Phase Services
- 2) A documented reduction of fees in the amount of \$22,000 for combining the Pre-Design, Schematic Design and Design Development Phase Services and based on our ongoing teaming and value professional relationship
- 3) Fees include all phases of Design, Construction and Project Closeout
- 4) HCES Total Fees: \$ 496,000 RES Total Fees: \$ 487,000



UPCOMING MEETINGS

(Note: Meeting Dates are Subject to Change)



Facilities Improvements Project Updates

Sketch Submission

PC Preliminary

Zoning Hearing Board

PC Conditional Final

PC Preliminary

BOS Final

Zoning Hearing Board

PC Conditional Final

BOS Preliminary

BOS Final

SFES

STAR/Turf

STAR/Turf

STAR/Turf

SFES

STAR/Turf

SFES

SFES

SFES

SFES

SCHRADERGROUP BRESLIN RIDYARD FADERO ARCHITECTS

25SEP19

11NOV19

12NOV19

05DEC19

18DEC19

28JAN20

26FEB20

17MAR20

21APR20

7:00pm

7:30pm

7:30pm

7:00pm

7:30pm

7:00pm

7:00pm

7:00pm

7:00pm

PRELIMINARY LAND DEVELOPMENT SCHEDULE – MASTER SCHEDULE (Updated 07NOV19)

PRELIMINARY LAND DEVELOPMENT SCHEDULE – MASTER SCHEDULE (Updated 07NOV19)

FREEIVINART LAND DEVELOF WILLY SCHEDOLE	WASTER SCHEDOLL (Opuated 07NOV13)

PC - Upper Makefield Township

PC - Northampton Township

ZHB – Northampton Township

PC - Northampton Township

PC – Upper Makefield Township

BOS – Northampton Township

ZHB – Upper Makefield Township

PC – Upper Makefield Township

BOS – Upper Makefield Township

*BOS – Upper Makefield Township

*If needed, to be confirmed. Determination based upon Township review and discussion

Note: All dates subject to change base on Township mtg. schedules, review comments & submission dates

inclination and better interest of the state				
Project	Activity	Meeting Type and Location	Date	Time

CRHS N&S Turt, STAR & SFES Projects – Waster Land Development Schedule	D'HUY Engineering, Inc.	

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•		•	b 10 2 Inglicering, Inc.	ı

	•	•	•
CRHS N&S Turf.	STAR & SFES Projects -	 Master Land 	Development S

Upcoming Meetings & Topics:

Meetings and Topics include, but may not be limited to:

meetings and representational materials meeting to the			
MEETING DATE	MEETING TYPE	PROBABLE TOPIC/AGENDA ITEM	
14NOV19	Act 34 Hearing	Act 34 Hearing for Council Rock STAR Center - 6:00pm Location: Chancellor Center Board Room	
12DEC19	FACCOM	Facilities Improvements Update	
19DEC19	FACCOM	Board approval of SFES Act 34 Resolution/Advertise	
09JAN20	FACCOM	Review CRHS North Turf/Track Bid Results and Recommendation	
23JAN20	Act 34 Hearing	Act 34 Hearing for Sol Feinstone ES Additions and Renovations – 6:00pm (Pending Board Approval)	

Note: Dates and Topics are Subject to Change and/or Expand

Finance Committee-Board Agenda Items

- Approve Proposal for On-Site Transfinder Training
- Approve Homestead/Farmstead District Agreement with Bucks IU for 2019-2020
- Approve Amended 403(b) Plan Document
- Approve Bid #19-34, Furniture Supplies Catalog Discount Bid



Public Comments - Thank you!

Next FACCOM Meeting: Thursday, December 12, 2019 @ 7:00pm





