Grosse Pointe Public School System SUMMARY OF COSTS BY PRIORITIZATION

Bldg #	Name of School Facility	Total Costs	Critical Need (1 - 3)	D	eferred Maintenance (4 - 6)		Property Enhancement (7 - 10)	Total
	ELEMENTARY:							
	Defer Elementary School	\$ 6,592,055	\$ 4,671,557	\$	300,351		1,620,146	\$ 6,592,055
2	Ferry Elementary School	\$ 6,429,926	\$ 4,878,880	\$	84,682	\$	1,466,364	\$ 6,429,926
3	Kerby Elementary School	\$ -, ,	\$ 4,292,663	\$	451,669	\$	1,453,239	\$ 6,197,571
	Maire Elementary School	\$ 6,628,976	\$ 4,904,869	\$	320,492	\$	1,403,616	\$ 6,628,976
	Mason Elementary School	\$ -,,	\$ 4,129,856	\$	235,806	\$	1,001,975	\$ 5,367,638
6	Monteith Elementary School	\$ 7,498,046	\$ 5,162,827	\$	438,713	\$	1,896,505	\$ 7,498,046
7	Poupard Elementary School	\$ 8,381,180	\$ 5,754,970	\$	694,977	\$	1,931,234	\$ 8,381,180
	Richard Elementary School	\$ 4,534,115	3,029,930	\$	175,649	\$	1,328,536	\$ 4,534,115
9	Trombly Elementary School	\$ 5,191,476	\$ 3,868,425	\$	361,695	\$	961,356	\$ 5,191,476
	MIDDLE:							
10	Brownell Middle School	\$ 12,758,194	\$ 7,398,299	\$	1,268,004	\$	4,091,892	\$ 12,758,194
11	Parcells Middle School	\$ 15,452,633	\$ 8,036,143	\$	2,414,577	\$	5,001,913	\$ 15,452,633
12	Pierce Middle School	\$ 13,682,964	\$ 9,343,822	\$	1,540,229	\$	2,798,913	\$ 13,682,964
	HIGH:							
13	North High School	\$ 31,524,889	\$ 20,468,368	\$	4,731,344	\$	6,325,177	\$ 31,524,889
14	South High School	\$ 29,478,748	\$ 20,567,898	\$	694,092	\$	8,216,758	\$ 29,478,748
	SUPPORT:							
15	Barnes Early Childhood Center	\$ 5,654,043	\$ 3,637,596	\$	688,673	\$	1,327,774	\$ 5,654,043
16	Administration	\$ 1,764,759	\$ 1,166,486	\$	136,393	\$	461,879	\$ 1,764,759
	TOTAL BUILDINGS BUDGET	\$ 167,137,214	\$ 111,312,590	\$	14,537,345	\$	41,287,278	\$ 167,137,214
	Escalation Factors		1.04		1.22	l	1.37	
	Net Present Value (NPV)	\$ 167,137,214	\$ 111,312,590	\$	11,915,857	\$	30,136,699	\$ 153,365,146

Definitions:

Critical Need: Items that are necessary to keep the school buildings safe, warm, dry and operational. Items

that are beyond their useful life or in danger of failure in the next 1-3 years. These are items

that require more resources than the current maintenance staff can address.

Deferred Maintenance: Items that are critical in nature, however still have 4-6 years of useful life remaining.

Property Enhancement: Items that are not essential to keeping the school open that enhance a school program,

learning environment or safety. Also items that still have a remaining useful life of 7-10 years.

Escalation Factors: Due to the variation of when a project may occur, adjustments have been made to reflect yearly inflation (4%/year)

Grosse Pointe Public School System SUMMARY OF COSTS BY SCOPE OF WORK

						MIXI O		000.0	_	. 555.	0. 110									
Bldg#	Name of School Facility	Total Costs	1.0 Site Work	.0 Building Envelope		3.0 Interior enovations	4	l.0 Plumbing Systems		5.0 HVAC Systems	0 Electrical Systems	7.0	0 Security	8.0 Not Used	Furniture & Equipment		10.0 chnology	S	oft Costs Continger	(AE/CM/ ncy)
	ELEMENTARY:																			
1	Defer Elementary School	\$ 6,592,055	\$ 320,580	\$ 253,585	65	462,646	\$	603,626	69	1,766,027	\$ 357,345	\$	318,240	\$ -	\$ 142,480	\$	1,081,207	\$		1,286,319
2	Ferry Elementary School	\$ 6,429,926	215,332	594,056	\$	1,341,745	\$	699,934		482,568	\$ 470,036	\$	107,120		\$ 142,480	\$	1,144,302			1,232,353
3	Kerby Elementary School	\$ 6,197,571	91,260	116,297	\$	366,434		769,729	\$	2,006,300	\$ 350,061	\$	104,000		\$ 142,480		1,052,282			1,198,727
4	Maire Elementary School	\$ 6,628,976	194,189	307,361	\$	1,117,413		518,438	\$	1,326,624	325,520	\$	309,920		\$ 142,480		1,095,224			1,291,807
5	Mason Elementary School	\$ 5,367,638	138,112	242,195	\$	608,029		384,867	\$	1,291,326	351,114	\$	126,880		\$ 142,480		1,092,374			990,259
6	Monteith Elementary School	\$ 7,498,046	\$ 10,920	\$ 271,401	65	1,343,683	\$	630,720	69	1,905,038	\$ 396,364	\$	319,280	\$ -	\$ 142,480	\$	941,210	\$		1,536,949
7	Poupard Elementary School	\$ 8,381,180	193,300	529,258	\$	1,355,160		618,094	\$	1,872,228	403,305	\$	315,120		\$ 170,976		1,257,890			1,665,850
8	Richard Elementary School	\$ 4,534,115	\$ 86,060	\$ 283,887	\$	398,703	\$	559,509	\$	532,557	\$ 301,547	\$	257,920	\$ -	\$ 142,480	\$	1,208,813	\$		762,639
9	Trombly Elementary School	\$ 5,191,476	\$ 106,391	\$ 261,014	65	482,820	\$	368,539	69	1,224,636	\$ 333,585	\$	302,640	\$ -	\$ 142,480	\$	998,930	\$		970,439
	MIDDLE:																			
10	Brownell Middle School	\$ 12,758,194	\$ 319,738	\$ 841,119	65	1,143,361	\$	1,716,372	69	2,591,164	\$ 463,576	\$	610,480	\$ -	\$ 178,100	\$	2,472,361	\$		2,421,922
11	Parcells Middle School	\$ 15,452,633	\$ 234,162	\$ 1,486,830	\$	2,504,382	\$	2,551,036	\$	2,381,694	\$ 914,638	\$	444,080	\$ -	\$ 283,894	\$	1,337,898	\$		3,314,019
12	Pierce Middle School	\$ 13,682,964	\$ 203,880	\$ 923,164	\$	1,673,056	\$	1,451,229	\$	3,345,947	\$ 541,691	\$	361,920	\$ -	\$ 178,100	\$	2,325,211	\$		2,678,766
	HIGH:																			
13	North High School	\$ 31,524,889	\$ 2,371,958	\$ 3,967,330	\$	2,797,972	\$	3,104,875	\$	6,966,413	\$ 1,144,558	\$	360,880	\$ -	\$ -	\$	4,283,594	\$		6,527,309
14	South High School	\$ 29,478,748	\$ 1,676,012	\$ 1,120,197	65	2,258,705	\$	4,937,781	69	7,741,079	\$ 1,434,340	\$	852,800	\$ -	\$ -	\$	3,148,922	\$		6,308,911
	SUPPORT:																			
15	Barnes Early Childhood Cente	\$ 5,654,043	\$ 322,566	\$ 431,432		945,350		498,345		765,920	\$ 245,567	\$	327,600		\$ 142,480		860,288			1,114,496
16	Administration	\$ 1,764,759	\$ 131,781	\$ 63,724	\$	89,284	\$	242,170	\$	-	\$ 225,661	\$	45,760	\$ -	\$ 71,240	\$	643,557	\$		251,582
	TOTAL BUILDINGS BUDGET	\$ 167,137,214	\$ 6,616,241	\$ 11,692,852	\$	18,888,744	\$	19,655,264	\$	36,199,522	\$ 8,258,911	\$	5,164,640	\$ -	\$ 2,164,630	\$ 2	24,944,064	\$	3	33,552,346

Grosse Pointe Public School System

Major Items (exludes soft costs)

<u>Bldg</u> <u>#</u>	Name of School Facility	Cost/s.f.	Paving	Roofing	Plumbing	HVAC	Electrical	Security	Tech	Furniture	Pools
	ELEMENTARY:										
1	Defer Elementary School	\$81.75	\$96,460	\$185,985	\$603,626	\$1,766,027	\$357,345	\$306,000	\$968,533	\$142,480	
2	Ferry Elementary School	\$71.33	\$204,932	\$453,656	\$699,934	\$482,568	\$470,036	\$103,000	\$1,005,200	\$142,480	
3	Kerby Elementary School	\$60.02	\$96,460	\$64,297	\$769,729	\$2,006,300	\$350,061	\$100,000	\$933,000	\$142,480	
4	Maire Elementary School	\$99.06	\$187,429	\$213,501	\$518,438	\$1,326,624	\$325,520	\$298,000	\$920,600	\$142,480	
5	Mason Elementary School	\$91.23	\$127,712	\$138,195	\$384,867	\$1,291,326	\$351,114	\$122,000	\$958,600	\$142,480	
6	Monteith Elementary School	\$86.49	\$0	\$219,401	\$630,720	\$1,905,038	\$396,364	\$307,000	\$1,026,400	\$142,480	
7	Poupard Elementary School	\$99.76	\$188,100	\$330,961	\$618,094	\$1,872,228	\$403,305	\$303,000	\$1,090,000	\$170,976	
8	Richard Elementary School	\$61.25	\$86,060	\$231,887	\$559,509	\$532,557	\$301,547	\$248,000	\$1,045,400	\$142,480	
9	Trombly Elementary School	\$91.54	\$97,031	\$183,014	\$368,539	\$1,224,636	\$333,585	\$291,000	\$885,400	\$142,480	
	MIDDLE:										
10	Brownell Middle School	\$58.81	\$319,738	\$763,119	\$1,570,772	\$1,697,778	\$463,576	\$587,000	\$2,180,800	\$178,100	\$145,60
11	Parcells Middle School	\$51.31	\$234,162	\$1,244,978	\$2,135,036	\$1,556,428	\$914,638	\$427,000	\$1,403,800	\$283,894	\$416,00
12	Pierce Middle School	\$51.31	\$195,040	\$772,364	\$1,045,629	\$2,809,203	\$541,691	\$348,000	\$2,082,600	\$178,100	\$1,175,20
	HIGH:										
13	North High School	\$67.08	\$1,272,678	\$1,949,730	\$3,071,595	\$6,966,413	\$1,144,558	\$347,000	\$3,718,500	\$0	\$33,28
14	South High School	\$48.75	\$689,520	\$1,008,917	\$4,937,781	\$7,741,079	\$1,434,340	\$820,000	\$2,532,000	\$0	\$22,46
	SUPPORT:										
15	Barnes Early Childhood Center	\$83.94	\$317,886	\$337,832	\$498,345	\$765,920	\$765,920	\$315,000	\$775,400	\$142,480	
16	Administration	\$60.16	\$131,781	\$11,724	\$242,170	\$242,170	\$225,661	\$44,000	\$597,900	\$71,240	
·	TOTALS:		\$4,244,989	\$8,109,563	\$18,654,784	\$34,186,296	\$8,779,263	\$4,966,000	\$22,124,133	\$2,164,630	\$1,792,54



Summary of Costs Defer ES

60,00	Elementary School 1 s.f. 3-story Building 1925, Addition: 1928		•	Cost Data cation Factor = raphic Factor =	1.00 1.00	(Medium) (US Median)			Cost Escal	ation Factors	
Duit	1325, Addition: 1326		_	lation Factor =	1.04	Spring 2017		1.04	1.22	1.37	1.04
Line No.	Draft 1-29-18 Program Area	Area Required (in Sq. Ft.)	No. of Rms. / Units Required	Total Area (in Sq. Ft.)	Base Unit Cost (\$)	Effective Program Area Cost (\$)	As % of Total Cost	Critical Needs (1 - 3 years)	Deferrable	Property Enhancement (7 - 10 years)	Other
1	1.0 SITE										
2 3 4	Paving Replace Asphalt Parking Lot (66 spaces)	26,500	1	26,500	\$3.50	\$96,460	1.58%	\$96,460			
5 6 7	2000 (17 years old) Greenhouse replacement Flag Pole Replacement (Rocket Enterprises)	1	1	1	\$150,000.00 \$10,000.00	\$156,000 \$10,400	2.56% 0.17%	\$10,400		\$213,720	
8 9 10	SITE SUBTOTAL					\$262,860	4.31%	\$106,860	\$0	\$213,720	\$0
11	2.0 BUILDING ENVELOPE					Ψ202,000	4.0170	\$100,000	 	\$210,720	Ψ
13	Roofing Work - J.D. Candler Report										
15 16 17	Replace Roof (BUR, installed 1990, grade F) Replace Roof (BUR, installed 1996, grade F) Replace Roof (BUR, installed 2000, grade D)	4,737 9,952 4,540	1 1 1	4,737 9,952 4,540	\$8.00 \$8.00 \$8.00	\$39,412 \$82,801 \$37,773	0.65% 1.36% 0.62%	\$39,412 \$82,801 \$37,773			
18 19 20 21	Patching / Curbs Refurbish Exterior Wood Doors Replace Building Masonry	1 10 1	1 1 1	1 10 1	\$25,000.00 \$1,500.00 \$50,000.00	\$26,000 \$15,600 \$52,000	0.43% 0.26% 0.85%	\$26,000 \$15,600 \$52,000			
22 23	BUILDING ENVELOPE SUBTOTAL					\$253,585	4.16%	\$253,585	\$0	\$0	\$0
24 25	3.0 INTERIOR/FINISHES										
26 27 28	Abatement (Allowance)	60,001	1	60,001	\$2.00	\$124,802	2.05%	\$124,802			
29 30 31 32	Flooring - majority of building 12x12 VCT Classrooms (CPT) Library (CPT) Teachers Lounge (CPT)	700 900 900	3 1 1	2,100 900 900	\$4.50 \$4.50 \$4.50	\$9,828 \$4,212 \$4,212	0.16% 0.07% 0.07%	\$9,828 \$4,212 \$4,212			
33	Kindergarten (CPT)	925	1	925	\$4.50	\$4,329	0.07%	\$4,329			
34 35 36 37	Music (CPT) Corridor (VCT) Paint Areas Disturbed by Construction	925 7,500 30,000	1 1 1	925 7,500 30,000	\$4.50 \$4.50 \$1.00	\$4,329 \$35,100 \$31,200	0.07% 0.58% 0.51%	\$4,329 \$35,100 \$31,200			
38 39 40 41	Install Ceilings (19 CR's, Office area, Clinic, 2 conf. rms)	700	23	16,100	\$4.00	\$66,976	1.10%	\$66,976			
42 43	Classroom & Corridor doors and hardware	80	1	80	\$1,750.00	\$145,600	2.39%	\$145,600			
44 45 46 47	Casework Replace classroom casework (lowers) Refurbish stage storage doors INTERIOR/FINISHES SUBTOTAL	60 1	1 1	60 1	\$250.00 \$7,500.00	\$15,600 \$7,800 \$453,988	0.26% 0.13% 7.44%	\$430,588	\$0	\$21,372 \$10,686 \$32,058	\$0
48	4.0 PLUMBING SYSTEMS					ψ+00,000	1.4470	\$400,000		ψ02,000	40
50 51 52	Replace hot water heater (1997) 60 gal.	1	1	1	\$5,000.00	\$5,200	0.09%	\$5,200			
53 54 55 56 57 58	Horizontal HW/CW Piping Replacement (mains only) Sanitary & Storm Drain Replacement (mains only) Steam & Condensate Piping Replacement (allowance) Replace and add domestic water valves and fittings (allowance)	60,001 60,001 60,001 60,001	1 1 1 1	60,001 60,001 60,001 60,001	\$3.00 \$2.00 \$1.00 \$1.00	\$187,203 \$124,802 \$62,401 \$62,401	3.07% 2.05% 1.02% 1.02%			\$256,468 \$170,979 \$85,489 \$85,489	
59 60 61 62	PLUMBING SYSTEMS SUBTOTAL					\$442,007	7.25%	\$5,200	\$0	\$598,426	\$0
	5.0 HVAC SYSTEMS										
65 66 67 68	Heating Steam Boilers (Weil McLain, 1997) Assoc. equip., comb. Air, emerg. Gas stops	2	1	2	\$125,000.00	\$260,000	4.26%	\$260,000			
69 70 71	Replace Steam Heating System Valves (allow)	1	1	1	\$40,000.00	\$41,600	0.68%	\$41,600			
72 73 74	Replace Gym Air Handler Replace Classroom Air Handlers (2 major units) less gym Ventilation	1 56,000	1	1 56,000	\$100,000.00 \$15.00	\$104,000 \$873,600	1.70% 14.32%	\$104,000 \$873,600			
75 76	Replace Kitchen Exhaust Fan (No ansul or make up air or potential other code update requirements)	1	1	60.001	\$50,000.00	\$52,000 \$15,600	0.85%	¢1E 600		\$71,240	
77 78 79	Air and Water Balance Commissioning	60,001 60,001	1	60,001 60,001	\$0.25 \$0.25	\$15,600 \$15,600	0.26% 0.26%	\$15,600 \$15,600			
80	Temperature Controls	60,001	1	60,001	\$2.50	\$156,003	2.56%	\$156,003			



Summary of Costs Defer ES

60,00	Elementary School 1 s.f. 3-story Building 1925, Addition: 1928		Geogr	Cost Data cation Factor = aphic Factor = lation Factor =	1.00 1.00 1.04	(Medium) (US Median) Spring 2017		1.04	Cost Escal	ation Factors 1.37	1.04
Line No.	Draft 1-29-18 Program Area	Area Required (in Sq. Ft.)	No. of Rms. / Units Required	Total Area (in Sq. Ft.)	Base Unit Cost (\$)	Effective Program Area Cost (\$)	As % of Total Cost	Critical Needs (1 - 3 years)	Ranked Cap Deferrable Maintenance (4 - 6 years)	Property Enhancement (7 - 10 years)	Other
81 82 83 84 85 86 87	Currently Medysis for AHU only, predom. Pneumatic controls Air Conditioning (not included in scope) Sanyo DX units for classrooms/offices installed 1998 RTU for Library RTU for Gym (10 yrs old) HVAC SYSTEMS SUBTOTAL	24	1	24	\$7,500.00	\$187,200 \$1,705,603	3.07% 27.96%	\$1,466,403	\$228,384 \$228,384	\$71,240	\$0



Summary of Costs Defer ES

	60,00	Elementary School 1 s.f. 3-story Building 1925, Addition: 1928		Geogr	Cost Data cation Factor = aphic Factor = lation Factor =	1.00 1.00 1.04	(Medium) (US Median) Spring 2017		1.04	Cost Escal	ation Factors 1.37	1.04
Selectrical Laystems	Line	Draft 1-29-18		Rms./	Total Area	Base Unit	Program			Deferrable	Property	Other
Security		Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)	
Security (Winght & Hunter) Security (Piterson) Security (Pit	89 90 91 92 93	Building electrical upgrades Lighting Replace Ltg with LED's (23 rooms w/stem mtd fixt) Replace Corridor Ltg w/ LED's (New OS, Switching, etc.)	23 7,500	1	23 7,500	\$3,200.00 \$2.00	\$76,544 \$15,600	1.25% 0.26%	\$76,544 \$15,600			
Security Wright & Hunter	95 96 97	Replace all emergency and exit lights Add Occupancy Sensors	60,001 40	1 1	60,001 40	\$0.25 \$500.00	\$15,600 \$20,800	0.26% 0.34%	\$15,600 \$20,800			
101 70 SECURITY (Wight & Hunter) 1	99	ELECTRICAL SYSTEMS SUBTOTAL					\$357,345	5.86%	\$357,345	\$0	\$0	\$0
107 108 109	101 102 103 104 105	Door Access System Surveillance System Secured Entry (Ehresman)	1	1	1	\$31,000.00	\$32,240 \$260,000	0.53% 4.26%	\$32,240 \$260,000	\$0	\$0	\$0
1	107 108 109 110	OTHER SUBTOTAL					\$0	0.00%	\$0	\$0	\$0	\$0
117 118 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology (Desktop, Laptops, Tablets) 1 1 1 1 \$217,000.00 \$225,680 3.70% \$225,680 \$273,751 \$225,751	112 113 114 115	Classroom furniture	1	1	1	\$100,000.00						
118		FURNITURE & EQUIPMENT SUBTOTAL					\$104,000	1.70%	\$0	\$0	\$142,480	\$0
126 TECHNOLOGY SUBTOTAL \$1,007,274 16.51% \$807,456 \$0 \$273,751 \$0 127 128 Building Infrastructure Improvement Total: 60,001 \$81.75 \$4,904,903 80.40% \$3,745,677 \$228,384 \$1,331,675 \$0 129 Project Contingency: 10.00% Of Building & Site Budget \$379,363 6.22% \$293,822 \$22,838 \$91,544 \$0 130 Permits, Testing & Printing: 2.50% Of Building & Site Budget \$104,325 1.71% \$80,801 \$6,281 \$25,175 \$0 131 Construction Manager Fee and Costs: 8.00% Of Building & Site Budget \$342,185 5.61% \$265,028 \$20,600 \$82,573 \$0 132 Professional Fees & Costs: 8.00% Of Building & Site Budget & Contingency \$369,560 6.06% \$286,230 \$22,248 \$89,179 \$0 133 PROJECT TOTAL \$6,100,336 100.00% \$4,671,557 \$300,351 \$1,620,146 \$0	118 119 120 121 122 123	Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System	1 1 1	1 1 1 1	1 1 1 1	\$192,133.00 \$200,000.00 \$220,000.00 \$74,400.00	\$199,818 \$208,000 \$228,800 \$77,376	3.28% 3.41% 3.75% 1.27%	\$208,000 \$228,800 \$77,376		\$273,751	
128 Building Infrastructure Improvement Total: 60,001 \$81.75 \$4,904,903 80.40% \$3,745,677 \$228,384 \$1,331,675 \$0 129 Project Contingency: 10.00% Of Building & Site Budget \$379,363 6.22% \$293,822 \$22,838 \$91,544 \$0 130 Permits, Testing & Printing: 2.50% Of Building & Site Budget \$104,325 1.71% \$80,001 \$6,281 \$25,175 \$0 131 Construction Manager Fee and Costs: 8.00% Of Building & Site Budget \$342,185 561% \$265,028 \$20,600 \$82,573 \$0 132 Professional Fees & Costs: 8.00% Of Building & Site Budget & Contingency \$369,560 6.06% \$286,230 \$22,248 \$89,179 \$0 133 PROJECT TOTAL \$6,100,336 100.00% \$4,671,557 \$300,351 \$1,620,146 \$0	126		1	1	1	\$40,000.00				\$0	\$273,751	\$0
	128 129 130 131 132	Project Contingency: Permits, Testing & Printing: Construction Manager Fee and Costs: Professional Fees & Costs:	2.50% 8.00%	Of Building	g & Site Budget g & Site Budget g & Site Budget	,,	\$379,363 \$104,325 \$342,185 \$369,560	6.22% 1.71% 5.61% 6.06%	\$293,822 \$80,801 \$265,028 \$286,230	\$22,838 \$6,281 \$20,600 \$22,248	\$91,544 \$25,175 \$82,573 \$89,179	\$0 \$0 \$0 \$0
	133	PROJECT TOTAL					\$6,100,336	100.00%	\$4,671,557	\$300,351	\$1,620,146	\$0 \$6,592,055



Summary of Costs Ferry ES

5 Replace Asph 6 Fencing 7 Flag pole Repla 8 9 10 11 12 2.0 BUILDING EN 13 14 Roofing Work - 15 Replace Roof 16 Replace Roof	Draft 1-29-18 Program Area halt Parking Lot (54 spaces.) 2005 halt Playground area cement (Rocket Enterprises)	Area Required (in Sq. Ft.) 35,200 21,100 500 1	Geogr	Cost Data atation Factor = aphic Factor = lation Factor = Total Area (in Sq. Ft.) 35,200 21,100 500 1	1.00 1.00 1.04 Base Unit Cost (\$) \$3.50 \$3.50 \$10.00 \$5,000.00	(Medium) (US Median) Spring 2017 Effective Program Area Cost (\$) \$128,128 \$76,804 \$5,200 \$5,200	As % of Total Cost 2.13% 1.28% 0.09%	1.04 Critical Needs (1 - 3 years) \$128,128 \$76,804	1.22 Ranked Cap Deferrable Maintenance	ation Factors 1.37 ital Priorities Property Enhancement (7 - 10 years)	1.04 Other
Line No. 1 1.0 SITE 2 Paving 4 Replace Asph 5 Replace Asph 6 Fencing 7 Flag pole Replae 8 9 10 11 12 2.0 BUILDING EN 13 14 Roofing Work 15 Replace Roof 16 Replace Roof	Draft 1-29-18 Program Area halt Parking Lot (54 spaces.) 2005 halt Playground area cement (Rocket Enterprises) SITE SUBTOTAL	Required (in Sq. Ft.) 35,200 21,100 500	No. of Rms. / Units Required	aphic Factor = lation Factor = Total Area (in Sq. Ft.) 35,200 21,100 500	1.00 1.04 Base Unit Cost (\$) \$3.50 \$3.50 \$10.00	(US Median) Spring 2017 Effective Program Area Cost (\$) \$128,128 \$76,804 \$5,200	Total Cost 2.13% 1.28%	Critical Needs (1 - 3 years) \$128,128 \$76,804	1.22 Ranked Cap Deferrable Maintenance	1.37 ital Priorities Property Enhancement	
Line No. 1 1.0 SITE 2 3 Paving 4 Replace Asph 5 Replace Asph 6 Fencing 7 Flag pole Repla 8 9 10 11 2 2.0 BUILDING EN 13 Roofing Work - 15 Replace Roof 16 Replace Roof	Draft 1-29-18 Program Area halt Parking Lot (54 spaces.) 2005 halt Playground area cement (Rocket Enterprises) SITE SUBTOTAL	Required (in Sq. Ft.) 35,200 21,100 500	No. of Rms. / Units Required	Total Area (in Sq. Ft.) 35,200 21,100 500	1.04 Base Unit Cost (\$) \$3.50 \$3.50 \$10.00	Spring 2017 Effective Program Area Cost (\$) \$128,128	Total Cost 2.13% 1.28%	Critical Needs (1 - 3 years) \$128,128 \$76,804	1.22 Ranked Cap Deferrable Maintenance	1.37 ital Priorities Property Enhancement	
No. 1	Program Area halt Parking Lot (54 spaces.) 2005 halt Playground area cement (Rocket Enterprises) SITE SUBTOTAL IVELOPE	Required (in Sq. Ft.) 35,200 21,100 500	No. of Rms. / Units Required	Total Area (in Sq. Ft.) 35,200 21,100 500	Base Unit Cost (\$) \$3.50 \$3.50 \$10.00	Effective Program Area Cost (\$) \$128,128 \$76,804 \$5,200	Total Cost 2.13% 1.28%	Critical Needs (1 - 3 years) \$128,128 \$76,804	Ranked Cap Deferrable Maintenance	ital Priorities Property Enhancement	
No. 1.0 SITE 2 2 3 Paving 4 Replace Asph 5 Replace Asph 6 Fencing 7 Flag pole Repla 8 9 10 11 2 2.0 BUILDING EN 13 Roofing Work - 15 Replace Roof 16 Replace Roof 17 Replace Roof 17 Replace Roof 18 Replace	Program Area halt Parking Lot (54 spaces.) 2005 halt Playground area cement (Rocket Enterprises) SITE SUBTOTAL IVELOPE	Required (in Sq. Ft.) 35,200 21,100 500	Rms. / Units Required	35,200 21,100 500	\$3.50 \$3.50 \$10.00	Program Area Cost (\$) \$128,128 \$76,804 \$5,200	Total Cost 2.13% 1.28%	Needs (1 - 3 years) \$128,128 \$76,804	Deferrable Maintenance	Property Enhancement	Other
No. 1 1.0 SITE 2 3 Paving 4 Replace Asph 5 Replace Asph 6 Fencing 7 Flag pole Repla 8 9 10 11 12 2.0 BUILDING EN 13 14 Roofing Work- 15 Replace Roof 16 Replace Roof	Program Area halt Parking Lot (54 spaces.) 2005 halt Playground area cement (Rocket Enterprises) SITE SUBTOTAL IVELOPE	Required (in Sq. Ft.) 35,200 21,100 500	Rms. / Units Required	35,200 21,100 500	\$3.50 \$3.50 \$10.00	Program Area Cost (\$) \$128,128 \$76,804 \$5,200	Total Cost 2.13% 1.28%	Needs (1 - 3 years) \$128,128 \$76,804	Deferrable Maintenance	Property Enhancement	Other
No. 1 1.0 SITE 2 3 Paving 4 Replace Asph 5 Replace Asph 6 Fencing 7 Flag pole Repla 8 9 10 11 12 2.0 BUILDING EN 13 14 Roofing Work- 15 Replace Roof 16 Replace Roof	Program Area halt Parking Lot (54 spaces.) 2005 halt Playground area cement (Rocket Enterprises) SITE SUBTOTAL IVELOPE	Required (in Sq. Ft.) 35,200 21,100 500	Units Required	35,200 21,100 500	\$3.50 \$3.50 \$10.00	Area Cost (\$) \$128,128 \$76,804 \$5,200	Total Cost 2.13% 1.28%	Needs (1 - 3 years) \$128,128 \$76,804	Maintenance	Enhancement	Other
No. 1 1.0 SITE 2 3 Paving 4 Replace Asph 5 Replace Asph 6 Fencing 7 Flag pole Repla 9 10 11 12 2.0 BUILDING EN 13 14 Roofing Work - 15 Replace Roof 16 Replace Roof 17 Replace Roof 16 Replace Roof 17 Replace Roof 17 Replace Roof 17 Replace Roof 18 Repla	Program Area halt Parking Lot (54 spaces.) 2005 halt Playground area cement (Rocket Enterprises) SITE SUBTOTAL IVELOPE	35,200 21,100 500	Required 1 1 1 1	35,200 21,100 500	\$3.50 \$3.50 \$10.00	\$128,128 \$76,804 \$5,200	2.13% 1.28%	(1 - 3 years) \$128,128 \$76,804			
1 1.0 SITE 2	nalt Parking Lot (54 spaces.) 2005 nalt Playground area cement (Rocket Enterprises) SITE SUBTOTAL	35,200 21,100 500	1 1 1	35,200 21,100 500	\$3.50 \$3.50 \$10.00	\$128,128 \$76,804 \$5,200	2.13% 1.28%	\$128,128 \$76,804	(4 - 6 years)	(7 - 10 years)	
2 Paving 4 Replace Aspt 5 Replace Aspt 6 Fencing 7 Flag pole Repla 8 9 10 11 12 2.0 BUILDING EN 13 14 Roofing Work - 15 Replace Roof 16 Replace Roof	nalt Playground area cement (Rocket Enterprises) SITE SUBTOTAL IVELOPE	21,100 500	1	21,100 500	\$3.50 \$10.00	\$76,804 \$5,200	1.28%	\$76,804			
2 Paving 4 Replace Aspt 5 Replace Aspt 6 Fencing 7 Flag pole Repla 8 9 10 11 12 2.0 BUILDING EN 13 14 Roofing Work- 15 Replace Roof 16 Replace Roof	nalt Playground area cement (Rocket Enterprises) SITE SUBTOTAL IVELOPE	21,100 500	1	21,100 500	\$3.50 \$10.00	\$76,804 \$5,200	1.28%	\$76,804			
4 Replace Asph 5 Replace Asph 6 Fencing 7 Flag pole Repla 8 9 10 11 12 2.0 BUILDING EN 13 14 Roofing Work - 15 Replace Roof 16 Replace Roof	nalt Playground area cement (Rocket Enterprises) SITE SUBTOTAL IVELOPE	21,100 500	1	21,100 500	\$3.50 \$10.00	\$76,804 \$5,200	1.28%	\$76,804			
5 Replace Asph 6 Fencing 7 Flag pole Repla 8 9 10 11 12 2.0 BUILDING EN 13 14 Roofing Work - 15 Replace Roof 16 Replace Roof	nalt Playground area cement (Rocket Enterprises) SITE SUBTOTAL IVELOPE	21,100 500	1	21,100 500	\$3.50 \$10.00	\$76,804 \$5,200	1.28%	\$76,804			
6 Fencing 7 Flag pole Repla 8 9 10 11 12 2.0 BUILDING EN 13 14 Roofing Work - 15 Replace Roof 16 Replace Roof	cement (Rocket Enterprises) SITE SUBTOTAL IVELOPE	500	1	500	\$10.00	\$5,200					
8 9 10 11 2.0 BUILDING EN 13 14 Roofing Work - 15 Replace Roof Replace Roof	SITE SUBTOTAL	1	1	1	\$5,000.00	\$5,200		\$5,200			
9 10 11 12 2.0 BUILDING EN 13 14 Roofing Work - 15 Replace Roof 16 Replace Roof	IVELOPE					Ψ0,200	0.09%	\$5,200			
10 11 12 2.0 BUILDING EN 13 14 Roofing Work - 15 Replace Roof 16 Replace Roof	IVELOPE										
12 2.0 BUILDING EN 13 14 Roofing Work - 15 Replace Roof 16 Replace Roof						\$215,332	3.58%	\$215,332	\$0	\$0	\$0
13 14 Roofing Work - 15 Replace Roof 16 Replace Roof						-					
14 Roofing Work - 15 Replace Roof 16 Replace Roof	J.D. Candler Report										
15 Replace Roof16 Replace Roof											
16 Replace Roof	(BUR, installed 1987, grade D)	10,324	1	10,324	\$8.00	\$85,896	1.43%	\$85,896			
	(BUR, installed 1990, grade D)	8,414	1	8,414	\$8.00	\$70,004	1.16%	\$70,004			
	f (BUR, installed 1994, grade D) f (BUR, installed 2000, grade D)	16,023	1	16,023	\$8.00	\$133,311	2.21%	\$133,311			
	(BUR, installed 2000, grade D) (BUR, installed 1996, grade C)	3,613 16,152	1	3,613 16,152	\$8.00 \$8.00	\$30,060 \$134,385	0.50% 2.23%	\$30,060 \$134,385			
	(BUR, installed 1998, grade B)	764	1	764	\$0.00	\$0	0.00%	Ψ104,000		\$0	
21 Patching / Curb		1	1	1	\$25,000.00	\$26,000	0.43%	\$26,000			
22 Replace Buildin23 Exterior Soffits -		1 250	1	1 250	\$50,000.00	\$52,000	0.86%	\$52,000 \$26,000			
24 Exterior Door R		250 14	1	∠50 14	\$100.00 \$2,500.00	\$26,000 \$36,400	0.43% 0.60%	\$26,000			
25			•		+= ,						
26	BUILDING ENVELOPE SUBTOTAL					\$594,056	9.87%	\$594,056	\$0	\$0	\$0
27 28 3.0 INTERIOR/FIN	NISHES										
29 30 Abatement (allo	w)	68,016	1	68,016	\$4.00	\$282,947	4.70%	\$282,947			
31 32 Renovate Existi	ng Toilet Rooms	8	1	8	\$80,000.00	\$665,600	11.06%	\$665,600			
33 (new tile, fixture		Ü		Ü	ψου,σου.σο	ψοσο,σσσ	11.0070	φοσο,σσσ			
34											
35 Flooring	(CT) austra with a Out	700	7	4.000	64.50	#22.022	0.200/	¢22.022			
	CT) currently 9x9 T) currenly 9x9	700 15,600	7 1	4,900 15,600	\$4.50 \$4.50	\$22,932 \$73,008	0.38% 1.21%	\$22,932 \$73,008			
38 Library (CPT)		1,400	1	1,400	\$4.50	\$6,552	0.11%	\$6,552			
39 Classrooms (CPT)	1,800	1	1,800	\$4.50	\$8,424	0.14%	\$8,424			
40 Offices (CPT) 41 Paint Areas Dis	turbed by Construction	900 40,000	1	900 40,000	\$4.50 \$1.00	\$4,212 \$41,600	0.07% 0.69%	\$4,212 \$41,600			
	or Doors and Hdw	40,000	1	40,000 54	\$1,750.00	\$98,280	1.63%	\$98,280			
43 Replace Interior	Room Doors and Hdw	25	1	25	\$1,750.00	\$45,500	0.76%	\$45,500			
	nical/Receiving Room Doors	4	1	4	\$2,500.00	\$10,400	0.17%			\$14,248	
45 46 New Stage Curt	tains / Rigging	1	1	1	\$25,000.00	\$26,000	0.43%			\$35,620	
47		•		·	,500.00	+=0,000	20,0			+50,020	
48											
49 50 Casework											
	sroom casework (lowers)	75	1	75	\$250.00	\$19,500	0.32%		\$23,790		
52 Kitchen cabin		30	1	30	\$500.00	\$15,600	0.26%		\$19,032		
53 54	INTERIOR/FINISHES SUBTOTAL					\$1,320,555	21.94%	\$1,249,055	\$42,822	\$49,868	\$0
55	Little of Million Country of the					Ţ.,U_U,UU	70	Ţ., <u>_</u> Ŧ0,000	Ţ 12,022	7 .0,000	
56 4.0 PLUMBING S 57	YSTEMS										
58 Hot water heate 59	er - 6 years old										
60 Horizontal HW/6	CW Piping Replacement (mains only)	68,016	1	68,016	\$3.00	\$212,210	3.53%			\$290,728	
	m Drain Replacement (mains only)	68,016	1	68,016	\$2.00	\$141,473	2.35%			\$193,818	
	ensate Piping Replacement (allowance) Id domestic water valves and fittings (allowance)	68,016 68,016	1	68,016 68,016	\$1.00 \$1.00	\$70,737 \$70,737	1.18% 1.18%			\$96,909 \$96,909	
64 Plumbing Fixtur	es	-5,0.0		-5,0.0	ŲJO	+.0,.01				+-0,000	
65 Classroom Si		6	1	6	\$1,500.00	\$9,360	0.16%		\$11,419		
66 Replace Drink 67	king Fountains	4	1	4	\$2,000.00	\$8,320	0.14%		\$10,150		
68	PLUMBING SYSTEMS SUBTOTAL					\$512,836	8.52%	\$0	\$21,570	\$678,364	\$0



Summary of Costs Ferry ES

-	ementary School		0	Cost Data	4.00	(A.A. alliuma)					
	.f. 2-story Building 53 Addition: 1961			ation Factor = aphic Factor =	1.00 1.00	(Medium) (US Median)			Cost Escala	ation Factors	
	oo Addition. 1001			lation Factor =	1.04	Spring 2017		1.04	1.22	1.37	1.04
									Ranked Can	ital Priorities	
			No. of			Effective Program	As % of	Critical	Deferrable	Property	
ine	Draft 1-29-18	Area Required	Rms. / Units	Total Area	Base Unit	Area	Total	Needs		Enhancement	Other
lo.	Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)	
69	-		•		•						
70 <u>5.0</u> 71	OHVAC SYSTEMS										
'2 F	Heating	_									
73 74	Steam Boilers (Weil McLain 1994) Assoc. equip., comb. Air, emerg. Gas stops	2	1	2	\$125,000.00	\$260,000	4.32%	\$260,000			
	Replace Steam Heating System Valves (allow)	1	1	1	\$40,000.00	\$41,600	0.69%	\$41,600			
76 77											
78 79	Air Handler at Gym - RTU	1	1	1	\$100,000.00	\$104,000	1.73%	\$104,000			
79 80	Replace Exhaust Fans (toilet room renovation)	2	1	2	\$20,000.00	\$41,600	0.69%	\$41,600			
81 82 <i>F</i>	Air and Water Balance	68,016	1	68,016	\$0.25	\$17,684	0.29%	\$17,684			
83 (Commissioning	68,016	1	68,016	\$0.25	\$17,684	0.29%	\$17,684			
	Temperature Controls (100% Medysis) 0% A/C - Unit Vents, RTU's at Office, Clinic, CR's										
36 12°	1,131,132						/				
37 38	HVAC SYSTEMS SUBTOTAL					\$482,568	8.02%	\$482,568	\$0	\$0	
	ELECTRICAL SYSTEMS										
90 91 L	Lighting										
92	Replace Ltg with LED's (35 rooms w/stem mtd fixt)	35	1	35	\$3,200.00	\$116,480	1.94%	\$116,480			
13 14	Replace Corridor Ltg w/ LED's (New OS, Switching, etc.) Replace exterior building lights	15,600 68,016	1 1	15,600 68,016	\$2.00 \$0.25	\$32,448 \$17,684	0.54% 0.29%	\$32,448 \$17,684			
95	Replace all emergency and exit lights	68,016	1	68,016	\$0.25	\$17,684	0.29%	\$17,684			
96	Add Occupancy Sensors	35	1	35	\$500.00	\$18,200	0.30%	\$18,200			
	d electrical upgrade for IT (classrooms) ilding electrical upgrades	34 1	1	34 1	\$5,000.00 \$75,000.00	\$176,800 \$78,000	2.94% 1.30%	\$176,800 \$78,000			
	New Transformer Curb in Mechanical Room	1	1	1	\$10,000.00	\$12,740	0.23%	\$12,740			
00 01	ELECTRICAL SYSTEMS SUBTOTAL					\$470,036	7.81%	\$470,036	\$0	\$0	
)2										•	
	Discourate (1997) Door Access System	1	1	1	\$25,000.00	\$26,000	0.43%	\$26,000			
	Surveillance System	1	1	1	\$28,000.00	\$29,120	0.48%	\$29,120			
06 Se 07	cured Entry (Ehresman) SECURITY SYSTEMS SUBTOTAL	1	1	1	\$50,000.00	\$52,000 \$107,120	0.86% 1.78%	\$52,000 \$107,120	\$0	\$0	
08	SECURITY STSTEMS SUBTUTAL					\$107,120	1.70%	\$107,120	φU	φu	
09 <u>8.0</u> 10	NOT USED										
11							/				
12 13	OTHER SUBTOTAL					\$0	0.00%	\$0	\$0	\$0	
	FURNITURE & EQUIPMENT				****	****	4 =00/			****	
15 C 16	Classroom furniture	1	1	1	\$100,000.00	\$104,000	1.73%			\$142,480	
17 18	FURNITURE & EQUIPMENT SUBTOTAL					\$104,000	1.73%	\$0	\$0	\$142,480	
19						, . , ,				, , ,	
	.0 TECHNOLOGY (Wright & Hunter) nstructional Technology	1	1	1	\$196,000.00	\$203,840	3.39%	\$203,840			
22 (Classroom Technology (Desktop, Laptops, Tablets)	1	1	1	\$257,000.00	\$267,280	4.44%			\$366,174	
	Network Cabling Network Wireless and Switches	1	1	1	\$200,000.00	\$208,000 \$228,800	3.46%	\$208,000 \$228,800			
	Network Wireless and Switches Felephone System	1	1	1	\$220,000.00 \$67,200.00	\$228,800 \$69,888	3.80% 1.16%	\$228,800			
	Public Address Systems	1	1	1	\$25,000.00	\$26,000	0.43%	\$26,000			
25 T 26 F	Fiber WAN	1	1	1	\$40,000.00	\$41,600 \$1,045,408	0.69% 17.37%	\$41,600 \$778,128	\$0	\$366,174	
25 T 26 F 27 F	TECHNOLOGY SUBTOTAL										
25 T 26 F 27 F 28	TECHNOLOGY SUBTOTAL					04.054.040	00.040/	\$3,896,296	\$64,392	\$1,236,886	
25 T 26 F 27 F 28 29	Building Infrastructure Improvement Total:	10 00%	Of Puildin	68,016	\$71.33	\$4,851,912	80.61%				
25 T 26 F 27 F 28 29 30 E 31 F	Building Infrastructure Improvement Total: Project Contingency:	10.00% 2.50%		g & Site Budget		\$370,250	6.15%	\$311,817	\$6,439	\$72,823	
25 T 26 F 27 F 28 29 30 E 31 F 32 F 33 C	Building Infrastructure Improvement Total: Project Contingency: Permits, Testing & Printing: Construction Manager Fee and Costs:	2.50% 8.00%	Of Building Of Building	g & Site Budget g & Site Budget g & Site Budget		\$370,250 \$101,819 \$333,966	6.15% 1.69% 5.55%	\$311,817 \$85,750 \$281,259	\$6,439 \$1,771 \$5,808	\$72,823 \$20,026 \$65,687	
25 T 26 F 27 F 28 29 29 20 30 E 31 F 32 F 33 C 34 F	Building Infrastructure Improvement Total: Project Contingency: Permits, Testing & Printing:	2.50%	Of Building Of Building	g & Site Budget g & Site Budget		\$370,250 \$101,819 \$333,966	6.15% 1.69%	\$311,817 \$85,750	\$6,439 \$1,771	\$72,823 \$20,026	



Summary of Costs Kerby ES

_	Elementary School 5 s.f. 1-story Building 1948		Geogr	Cost Data cation Factor = raphic Factor = llation Factor =	1.00 1.00 1.04	(Medium) (US Median) Spring 2017		1.04	Cost Escal 1.22	ation Factors 1.37	1.04
									Ranked Car	oital Priorities	
Line	Draft 1-29-18	Area Required	No. of Rms. / Units	Total Area	Base Unit	Effective Program Area	As % of Total	Critical Needs	Deferrable .	Property Enhancement	Other
No.	Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)	
1	1.0 SITE										
2											
3 4	Paving Replace Asphalt Parking Lot (41 spaces) 16 yrs old	21,500	1	21,500	\$3.50	\$78,260	1.37%	\$78,260			
5	2001 drop off lane only	•									
6 7	Replace Exterior Concrete (Sidewalks, etc.)	1	1	1,000	\$6.00	\$6,240	0.11%	\$6,240			
8	Fencing	1	1	650	\$10.00	\$6,760	0.12%	\$6,760			
9 10											
11 12	SITE SUBTOTAL					\$91,260	1.59%	\$91,260	\$0	\$0	\$0
13	SHE SUBTOTAL					ψ31,200	1.55 /6	ψ31,200	Ψ	Ψ	ΨΟ
14 15	2.0 BUILDING ENVELOPE										
16	Replace Building Masonry	1	1	1	\$50,000.00	\$52,000	0.91%	\$52,000			
17 18	Roofing Work - J.D. Candler Report Replace Roof (Slate installed 1990, Grade B)	1	1	39,004	\$0.00	\$0	0.00%			\$0	
19	Replace Roof (BUR installed 1998, Grade C)	1	1	1,168	\$8.00	\$9,718	0.17%		\$11,856	ΨΟ	
20	Replace Roof (BUR, installed 1998, Grade C)	1 1	1	493	\$8.00	\$4,102	0.07%		\$5,004 \$17,246		
21 22	Replace Roof (BUR, installed 1998, Grade C) Replace Roof (BUR, installed 2003, Grade D)	1	1	1,699 413	\$8.00 \$8.00	\$14,136 \$3,436	0.25% 0.06%		\$17,246 \$4,192		
23 24	Patching / Curbs	1	1	1	\$25,000.00	\$26,000	0.00%	\$26,000			
25	BUILDING ENVELOPE SUBTOTAL					\$109,391	1.91%	\$78,000	\$38,297	\$0	\$0
26 27	3.0 INTERIOR/FINISHES										
28	3.0 INTERIOR/FINISHES										
29 30	Abatement (allow) Replace Corridor Doors & HDW	76,795 52	1 1	76,795 52	\$2.00 \$1,750.00	\$159,734 \$94,640	2.79% 1.65%	\$159,734 \$94,640			
31	Replace Interior Room Doors and Hdw	12	1	12	\$1,750.00	\$21,840	0.38%	\$21,840			
32	Flooring - Majority 12x12 VCT	4	4 500	4.500	£4.50	¢7,000	0.400/	£7.000			
33 34	Media center carpet Corridor (VCT)	1 8,000	1,500 1	1,500 8,000	\$4.50 \$4.50	\$7,020 \$37,440	0.12% 0.65%	\$7,020 \$37,440			
35	Install Lay-in Tile Ceilings at Corridor	8,000	1	8,000	\$4.00	\$33,280	0.58%	\$33,280			
36 37	Casework Replace Kindergarten Casework	2	1	2	\$6,000.00	\$12,480	0.22%	\$12,480			
38 39	INTERIOR/FINISHES SUBTOTAL					\$366,434	6.40%	\$366,434	\$0	\$0	\$0
40	INTERIOR INITIAL					\$300,434	0.40 /6	\$300,434	φυ	φυ	φυ
41 42	4.0 PLUMBING SYSTEMS										
43	Horizontal HW/CW Piping Replacement (mains only)	76,795	1	76,795	\$3.00	\$239,600	4.19%			\$328,253	
44 45	Sanitary & Storm Drain Replacement (mains only) Steam & Condensate Piping Replacement (allowance)	76,795 76,795	1 1	76,795 76,795	\$2.00 \$1.00	\$159,734 \$79,867	2.79% 1.40%			\$218,835 \$109,418	
46	Replace and add domestic water valves and fittings (allowance		1	76,795	\$1.00	\$79,867	1.40%			\$109,418	
47 48	Plumbing Fixtures Kindergarten Room Sinks	2	1	2	\$1,500.00	\$3,120	0.05%		\$3,806		
49	•	2	'	2	\$1,500.00						
50 51	PLUMBING SYSTEMS SUBTOTAL					\$562,188	9.82%	\$0	\$3,806	\$765,923	\$0
52	5.0 HVAC SYSTEMS										
53 54	Heating										
55	Steam Boilers (York Shepley 1989)	2	1	2	\$125,000.00	\$260,000	4.54%	\$260,000			
56 57	Assoc. equip., comb. Air, emerg. Gas stops										
58	Replace Steam Heating System Valves	1	1	1	\$40,000.00	\$41,600	0.73%	\$41,600			
59 60	Air conditioning - DX	25	1	25	\$7,500.00	\$195,000	3.41%		\$237,900		
61	•								Q201,000		
62 63	Replace Classroom Air Handlers (3 major units) less gym New Air handlers for Gym	70,000 1	1 1	70,000 1	\$15.00 \$100,000.00		0.00% 1.82%	\$1,092,000 \$104,000			
64	Ventilation	•									
65 66	Replace Kitchen Exhaust Fan (No ansul or make up air or potential other code update requirements)	1	1	1	\$30,000.00	\$31,200	0.55%	\$31,200			
67	Air and Water Balance	76,795	1	76,795	\$0.25	\$19,967	0.35%	\$19,967			
68 69	Commissioning Temperature Controls	76,795 76,795	1 1	76,795 76,795	\$0.25 \$2.50	\$19,967 \$199,667	0.35% 3.49%	\$19,967 \$199,667			
70	·	10,193	'	10,133	φ2.30						
71	HVAC SYSTEMS SUBTOTAL					\$1,963,400	34.30%	\$1,768,400	\$237,900	\$0	\$0



Summary of Costs Kerby ES

76,795 Built:	Elementary School 5 s.f. 1-story Building 1948		Geogi	Cost Data cation Factor = raphic Factor = alation Factor =	1.00 1.00 1.04	(Medium) (US Median) Spring 2017		1.04	Cost Escal	ation Factors 1.37	1.04
Line	Draft 1-29-18	Area Required	No. of Rms. / Units	Total Area	Base Unit	Effective Program Area	As % of Total	Critical Needs	Deferrable Maintenance	Property Enhancement	Other
No.	Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)	
72 73	6.0 ELECTRICAL SYSTEMS										
74											
	Power for new DX A/C Units	1	1	1	\$50,000.00	\$52,000	0.91%		\$63,440		
76 77	Lighting Replace Lighting Ballast with LED's (21 rooms)	21	1	21	\$1,200.00	\$26,208	0.46%	\$26,208			
78	Replace Corridor Ltg w/ LED's (New OS, Switching, etc.)	8,000	1	8,000	\$2.00	\$16,640	0.29%	\$16,640			
79	Replace exterior building lights	76,795	1	76,795	\$0.25	\$19,967	0.35%	\$19,967			
80	Replace all emergency and exit lights	76,795	1	76,795	\$0.25	\$19,967	0.35%	\$19,967			
81 82	Add Occupancy Sensors Add electrical upgrade for IT (classrooms)	22 22	1 1	22 22	\$500.00 \$5,000.00	\$11,440 \$114,400	0.20% 2.00%	\$11,440 \$114,400			
83	Add electrical appraise for 11 (classiforms)	22		22	ψ5,000.00	Ψ114,400	2.0070	ψ114,400			
	Building electrical upgrades	1	1	1	\$75,000.00	\$78,000	1.36%	\$78,000	*** ***	••	
85 86	ELECTRICAL SYSTEMS SUBTOTAL					\$338,621	5.92%	\$286,621	\$63,440	\$0	\$0
	7.0 SECURITY (Wright & Hunter)										
88	Door Access System	1	1	1	\$25,000.00	\$26,000	0.45%	\$26,000			
89	Surveillance System	1	1	1	\$25,000.00	\$26,000	0.45%	\$26,000			
90 : 91	Secured Entry (Ehresman)	1	1	1	\$50,000.00	\$52,000	0.91%	\$52,000			
92	SECURITY SYSTEMS SUBTOTAL					\$104,000	1.82%	\$104,000	\$0	\$0	\$0
93											
94 95	8.0 NOT USED										
96											
97	OTHER SUBTOTAL					\$0	0.00%	\$0	\$0	\$0	\$0
97 98						\$0	0.00%	\$0	\$0	\$0	\$0
97 98	9.0 FURNITURE & EQUIPMENT Classroom furniture	1	1	1	\$100,000.00	\$0 \$104,000	0.00% 1.82%	\$0	\$0	\$0 \$142,480	\$0
97 98 99 100 101	9.0 FURNITURE & EQUIPMENT	1	1	1	\$100,000.00	· · · · · · · · · · · · · · · · · · ·		\$0	\$0	·	\$0
97 98 99 100 101 102	9.0 FURNITURE & EQUIPMENT Classroom furniture	1	1	1	\$100,000.00	\$104,000	1.82%		·	\$142,480	
97 98 99 100 101	9.0 FURNITURE & EQUIPMENT	1	1	1	\$100,000.00	· · · · · · · · · · · · · · · · · · ·		\$0 \$0	\$0 \$0	·	
97 98 99 100 101 102 103 104 105	9.0 FURNITURE & EQUIPMENT Classroom furniture FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter)					\$104,000 \$104,000	1.82% 1.82%	\$0	·	\$142,480	
97 98 99 100 101 102 103 104 105 106	9.0 FURNITURE & EQUIPMENT Classroom furniture FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology	1	1	1	\$175,000.00	\$104,000 \$104,000 \$182,000	1.82% 1.82% 3.18%		·	\$142,480 \$142,480	
97 98 99 100 101 102 103 104 105 106 107	9.0 FURNITURE & EQUIPMENT Classroom furniture FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets)	1 1	1 1	1 1	\$175,000.00 \$213,000.00	\$104,000 \$104,000 \$182,000 \$221,520	1.82% 1.82% 3.18% 3.87%	\$0 \$182,000	·	\$142,480	
97 98 99 100 101 102 103 104 105 106	9.0 FURNITURE & EQUIPMENT Classroom furniture FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology	1	1	1	\$175,000.00	\$104,000 \$104,000 \$182,000	1.82% 1.82% 3.18% 3.87% 3.63%	\$0	·	\$142,480 \$142,480	
97 98 99 100 101 102 103 104 105 106 107 108 109 110	9.0 FURNITURE & EQUIPMENT Classroom furniture FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling	1 1 1	1 1 1	1 1 1	\$175,000.00 \$213,000.00 \$200,000.00	\$104,000 \$104,000 \$182,000 \$221,520 \$208,000	1.82% 1.82% 3.18% 3.87%	\$182,000 \$208,000 \$228,800 \$62,400	·	\$142,480 \$142,480	
97 98 99 100 101 102 103 104 105 106 107 108 109 110 111	9.0 FURNITURE & EQUIPMENT Classroom furniture FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems	1 1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	\$175,000.00 \$213,000.00 \$200,000.00 \$220,000.00 \$60,000.00 \$25,000.00	\$104,000 \$104,000 \$182,000 \$221,520 \$208,000 \$22,800 \$22,400 \$26,000	1.82% 1.82% 3.18% 3.87% 3.63% 4.00% 1.09% 0.45%	\$182,000 \$208,000 \$228,800 \$62,400 \$26,000	·	\$142,480 \$142,480	\$0
97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112	9.0 FURNITURE & EQUIPMENT Classroom furniture FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN	1 1 1	1 1 1 1	1 1 1 1	\$175,000.00 \$213,000.00 \$200,000.00 \$220,000.00 \$60,000.00	\$104,000 \$104,000 \$182,000 \$221,520 \$208,000 \$228,800 \$62,400 \$26,000 \$41,600	1.82% 1.82% 3.18% 3.87% 3.63% 4.00% 1.09% 0.45% 0.73%	\$182,000 \$208,000 \$228,800 \$62,400 \$26,000 \$41,600	·	\$142,480 \$142,480 \$303,482	\$0
97 98 99 100 101 102 103 104 105 106 107 108 109 110 111	9.0 FURNITURE & EQUIPMENT Classroom furniture FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems	1 1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	\$175,000.00 \$213,000.00 \$200,000.00 \$220,000.00 \$60,000.00 \$25,000.00	\$104,000 \$104,000 \$182,000 \$221,520 \$208,000 \$22,800 \$22,400 \$26,000	1.82% 1.82% 3.18% 3.87% 3.63% 4.00% 1.09% 0.45%	\$182,000 \$208,000 \$228,800 \$62,400 \$26,000	\$0	\$142,480 \$142,480	\$0 \$0
97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 111 112 113 114 115	9.0 FURNITURE & EQUIPMENT Classroom furniture FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL Building Infrastructure Improvement Total:	1 1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1 1 1	\$175,000.00 \$213,000.00 \$200,000.00 \$220,000.00 \$60,000.00 \$25,000.00	\$104,000 \$104,000 \$182,000 \$221,520 \$208,000 \$228,800 \$26,400 \$26,000 \$41,600 \$970,320 \$4,609,614	1.82% 1.82% 3.18% 3.63% 4.00% 1.09% 0.45% 0.73% 16.95% 80.54%	\$182,000 \$208,000 \$228,800 \$62,400 \$41,600 \$748,800 \$3,443,515	\$0 \$0 \$343,444	\$142,480 \$142,480 \$303,482 \$303,482 \$1,211,885	\$0 \$0
97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116	9.0 FURNITURE & EQUIPMENT Classroom furniture FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL Building Infrastructure Improvement Total: Project Contingency:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 0	1 1 1 1 1 1 1 76,795 g & Site Budget	\$175,000.00 \$213,000.00 \$200,000.00 \$220,000.00 \$60,000.00 \$25,000.00 \$40,000.00	\$104,000 \$104,000 \$182,000 \$221,520 \$208,000 \$228,800 \$62,400 \$41,600 \$970,320 \$4,609,614 \$353,529	1.82% 1.82% 3.18% 3.87% 3.63% 4.00% 1.09% 0.45% 6.73% 16.95%	\$182,000 \$208,000 \$228,800 \$62,400 \$241,600 \$748,800 \$3,443,515 \$269,472	\$0 \$0 \$343,444 \$34,344	\$142,480 \$142,480 \$303,482 \$1,211,885 \$76,592	\$0 \$0 \$0 \$0 \$0
97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117	9.0 FURNITURE & EQUIPMENT Classroom furniture FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL Building Infrastructure Improvement Total: Project Contingency: Permits, Testing & Printing:	1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 Of Building	1 1 1 1 1 1 1 76,795 g & Site Budget	\$175,000.00 \$213,000.00 \$200,000.00 \$220,000.00 \$60,000.00 \$25,000.00 \$40,000.00	\$104,000 \$104,000 \$182,000 \$221,520 \$208,000 \$228,800 \$62,400 \$41,600 \$41,600 \$41,600 \$970,320 \$4,609,614 \$353,529 \$97,221	1.82% 1.82% 3.18% 3.87% 3.63% 4.00% 1.09% 0.45% 0.73% 6.18% 6.18% 1.70%	\$182,000 \$208,000 \$228,800 \$62,400 \$41,600 \$748,800 \$3,443,515 \$269,472 \$74,105	\$0 \$343,444 \$34,344 \$9,445	\$142,480 \$142,480 \$303,482 \$1,211,885 \$76,592 \$21,063	\$0 \$0 \$0 \$0 \$0 \$0 \$0
97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116	9.0 FURNITURE & EQUIPMENT Classroom furniture FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL Building Infrastructure Improvement Total: Project Contingency:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 0f Building Of Building	1 1 1 1 1 1 1 76,795 g & Site Budget	\$175,000.00 \$213,000.00 \$200,000.00 \$220,000.00 \$60,000.00 \$25,000.00 \$40,000.00	\$104,000 \$104,000 \$182,000 \$221,520 \$208,000 \$228,800 \$62,400 \$41,600 \$970,320 \$4,609,614 \$353,529	1.82% 1.82% 3.18% 3.87% 3.63% 4.00% 1.09% 0.45% 6.73% 16.95%	\$182,000 \$208,000 \$228,800 \$62,400 \$241,600 \$748,800 \$3,443,515 \$269,472	\$0 \$0 \$343,444 \$34,344	\$142,480 \$142,480 \$303,482 \$1,211,885 \$76,592	\$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119	9.0 FURNITURE & EQUIPMENT Classroom furniture FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL Building Infrastructure Improvement Total: Project Contingency: Permits, Testing & Printing: Construction Manager Fee and Costs:	1 1 1 1 1 1 1 1 10.00% 2.50% 8.00%	1 1 1 1 1 1 1 0f Building Of Building	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	\$175,000.00 \$213,000.00 \$200,000.00 \$220,000.00 \$60,000.00 \$25,000.00 \$40,000.00	\$104,000 \$104,000 \$182,000 \$221,520 \$208,000 \$228,800 \$62,400 \$26,000 \$41,600 \$970,320 \$4,609,614 \$353,529 \$97,221 \$318,884	1.82% 1.82% 3.18% 3.87% 3.63% 4.00% 0.45% 0.73% 16.95% 80.54% 6.18% 1.70%	\$182,000 \$208,000 \$228,800 \$62,400 \$41,600 \$748,800 \$3,443,515 \$269,472 \$74,105 \$243,063	\$0 \$343,444 \$34,344 \$9,445 \$30,979	\$142,480 \$142,480 \$303,482 \$1,211,885 \$76,592 \$21,063 \$69,086	\$0



Summary of Costs Maire ES

Maire	Elementary School			Cost Data							
50,20 Built:	0 s.f. 3-story Building			cation Factor = aphic Factor =	1.00 1.00	(Medium) (US Median)			Cost Escal	ation Factors	
Duiit.	1000		_	lation Factor =	1.04	Spring 2017		1.04	1.22	1.37	1.04
									Ranked Cap	oital Priorities	
		Area	No. of Rms. /			Effective Program	As % of	Critical	Deferrable	Property	Other
Line	Draft 1-29-18	Required	Units	Total Area	Base Unit	Area	Total	Needs	Maintenance	Enhancement	Other
No.	Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)	
	1.0 SITE										
2	Paving										
4 5	Replace Asphalt Parking Lot (65 spaces) 2010	37,585	1	37,585	\$3.50	\$136,809	2.21%			\$187,429	
6	Flag Pole Replacement (Rocket Enterprises)	1	1	1	\$6,500.00	\$6,760	0.00%	\$6,760			
7 8											
9 10	SITE SUBTOTAL					\$143,569	2.32%	\$6,760	\$0	\$187,429	\$0
11						, ,,,,,,,		, , , , ,	, -	, , ,	
12 13	2.0 BUILDING ENVELOPE Replace Building Masonry	1	1	1	\$50,000.00	\$52,000	0.84%	\$52,000			
14 15	Window Lintel Repairs (61 windows) Roofing Work - J.D. Candler Report	61	1	61	\$250.00	\$15,860	0.26%	\$15,860			
16	Replace Roof (Slate, installed 1950, grade C) - Repair	5,714	1	5,714	\$3.00	\$17,828	0.29%		\$21,750		
17 18	Replace Roof (BUR, installed 1997, grade C) Replace Roof (EPDM, installed 1998, grade C)	6,026 148	1 1	6,026 148	\$8.00 \$8.00	\$50,136 \$1,231	0.81% 0.02%		\$61,166 \$1,502		
19	Replace Roof (BUR, installed 2002, grade C)	581	1	581	\$8.00	\$4,834	0.08%		\$5,897		
20 21	Replace Roof (BUR, installed 2002, grade C) Replace Roof (BUR, installed 2002, grade C)	1,836 2,706	1	1,836 2,706	\$8.00 \$8.00	\$15,276 \$22,514	0.25% 0.36%		\$18,636 \$27,467		
22	Replace Roof (BUR, installed 2002, grade C)	591	1	591	\$8.00	\$4,917	0.08%		\$5,999		
23	Replace Roof (BUR, installed 2002, grade C)	1,367	1	1,367	\$8.00	\$11,373	0.18%		\$13,876		
24 25	Replace Roof (BUR, installed 2002, grade D) Replace Roof	507 1,603	1	507 1,603	\$8.00 \$8.00	\$4,218	0.07% 0.22%		\$5,146		
26	Replace Roof (BUR, installed 2006, grade C)	401	1	401	\$8.00	\$13,337 \$3,336	0.22%		\$16,271 \$4,070		
27 28	Patching / Curbs for new M/E Work	1	1	1	\$25,000.00	\$26,000	0.42%		\$31,720		
	Mechanical Room Waterproofing	1	1	1	\$25,000.00	\$26,000	0.42%	\$26,000	******		
31	BUILDING ENVELOPE SUBTOTAL					\$268,861	4.34%	\$93,860	\$213,501	\$0	\$0
32 33	3.0 INTERIOR/FINISHES										
34											
35 36	Abatement (allow) Renovate Existing Toilet Rooms	50,200 4	1	50,200 4	\$2.00 \$80,000.00	\$104,416 \$332,800	1.69% 5.37%	\$104,416 \$332,800			
37	Doors & Hardware										
38 39	Replace Corridor Doors & HDW Replace Interior Room Doors and Hdw	52 30	1	52 30	\$1,750.00 \$1,750.00	\$94,640 \$54,600	1.90% 1.10%	\$94,640 \$54,600			
40	Replace Interior Room Boors and Flaw	30		30	ψ1,730.00	ψ34,000	1.1070	ψ34,000			
41	Flooring	700	40	44.000	04.50	050 440	0.050/	650 440			
42 43	Classrooms (CPT) Corridor (CPT)	700 5,200	16 1	11,200 5,100	\$4.50 \$4.50	\$52,416 \$23,868	0.85% 0.39%	\$52,416 \$23,868			
44	Media Center (CPT)	2,560	1	2,560	\$4.50	\$11,981	0.19%	\$11,981			
45	Art (VCT)	900	1	900	\$4.50	\$4,212	0.07%	\$4,212			
46 47	Band/Music (CPT) Offices (CPT)	1,080 1,200	1 1	1,080 1,200	\$4.50 \$4.50	\$5,054 \$5,616	0.08% 0.09%	\$5,054 \$5,616			
48											
	Install Lay-in Tile Ceilings at Corridor Install Lay-in Ceilings (7 CR's, Art, Music, Library)	5,200 700	1 12	5,200 8,400	\$4.00 \$4.00	\$21,632 \$34,944	0.35% 0.56%	\$21,632 \$34,944			
51	Paint Areas Disturbed by Construction	25,000	1	25,000	\$1.00	\$26,000	0.42%	\$26,000			
52 53											
54 55	Toilet room renovations Casework	4	1	4	\$80,000.00	\$332,800	1280.00%	\$332,800			
56	Replace Kitchen Casework (lowers)	16	1	16	\$300.00	\$4,992	0.08%		\$6,090		
57 58	Replace Kitchen Casework (uppers) Replace Art Room Casework (lower)	16 6	1	16 6	\$200.00 \$300.00	\$3,328 \$1,872	0.05% 0.03%		\$4,060 \$2,284		
59	. ,	O		O	ψ300.00						
60 61	INTERIOR/FINISHES SUBTOTAL					\$1,115,171	18.01%	\$1,104,979	\$12,434	\$0	\$0
62	4.0 PLUMBING SYSTEMS										
63 64	Horizontal HW/CW Piping Replacement (mains only)	50,200	1	50,200	\$3.00	\$156,624	2.53%			\$214,575	
65 66	Sanitary & Storm Drain Replacement (mains only)	50,200	1	50,200	\$2.00	\$104,416	1.69%			\$143,050	
66 67	Steam & Condensate Piping Replacement (allow) Replace and add domestic water valves and fittings (allow)	50,200 50,200	1 1	50,200 50,200	\$1.00 \$1.00	\$52,208 \$52,208	0.84% 0.84%			\$71,525 \$71,525	
68	• • •								60.044	•	
69 70	Replace hot water heater 50 gal	1	1	1	\$5,000.00	\$5,200	0.08%		\$6,344		
71	Plumbing Fixtures										
72 73	Art Room Sinks Replace Drinking Fountains	1 4	1 1	1 4	\$1,000.00 \$2,000.00	\$1,040 \$8,320	0.02% 0.13%		\$1,269 \$10,150		
74		•	•	•	. ,.,			**		\$500 67F	60
75	PLUMBING SYSTEMS SUBTOTAL					\$380,016	6.14%	\$0	\$17,763	\$500,675	\$0



Summary of Costs Maire ES

0,20	Elementary School) s.f. 3-story Building 1935		Geogr	Cost Data cation Factor = aphic Factor = lation Factor =	1.00 1.00 1.04	(Medium) (US Median) Spring 2017		1.04	Cost Escala	ation Factors 1.37	1.04
ine	Draft 1-29-18	Area Required	No. of Rms. / Units	Total Area	Base Unit	∟πесτινе Program Area	As % of Total	Critical Needs	Deferrable	ital Priorities Property Enhancement	Other
No.	Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)	
76	-										
77 78	5.0 HVAC SYSTEMS										
	Heating										
80	Steam Boilers (age 16 yrs, 2001)	2	1	2	\$125,000.00	\$260,000	4.20%	\$260,000			
81 82	Assoc. equip., comb. Air, emerg. Gas stops Replace Steam Heating System Valves	1	1	1	\$40,000.00	\$41,600	0.67%	\$41,600			
83	Replace Steam Healing System valves	'	ı	'	\$40,000.00	Φ4 1,000	0.07 %	Φ41,000			
34	New AHU -Gym	1	1	1	\$100,000.00	\$104,000	1.68%	\$104,000			
35	Replace Classroom Air Handlers (3 major units) less gym	45,000	1	45,000	\$15.00	\$702,000	11.34%	\$702,000			
6 7	New Unit Ventilators at Art and Music Room	2	1	2 2	\$20,000.00 \$10,000.00	\$41,600 \$20,800	40.00% 20.00%	\$41,600 \$20,800			
88	Replace Exhaust Fans - Toilet Rooms Air and Water Balance	50,200	1	50,200	\$10,000.00	\$20,600 \$13,052	12.55%	\$20,800			
39	Commissioning	50,200	1	50,200	\$0.25	\$13,052	12.55%	\$13,052			
90	3	,		,		, .,		, -,			
91	Temperature Controls	50,200	1	50,200	\$2.50	\$130,520	2.11%	\$130,520			
92 93	A/C - 100%, Sanyo units										
94	HVAC SYSTEMS SUBTOTAL					\$1,326,624	21.42%	\$1,326,624	\$0	\$0	\$
95											
96 97	6.0 ELECTRICAL SYSTEMS										
97 98	Lighting										
99	Replace Ltg with LED's (25 rooms w/stem mtd fixt)	25	1	25	\$3,200.00	\$83,200	1.34%	\$83,200			
00	Replace Corridor Ltg w/ LED's (New OS, Switching, etc.)	5,200	1	5,200	\$2.00	\$10,816	0.17%	\$10,816			
1	Replace exterior building lights	50,200	1	50,200	\$0.25	\$13,052	0.21%	\$13,052			
)2	Replace all emergency and exit lights	50,200	1	50,200	\$0.25	\$13,052	0.21%	\$13,052			
)3	Add Occupancy Sensors	1 21	1	35 21	\$500.00	\$18,200	0.29% 1.76%	\$18,200			
04 05	Add electrical upgrade for IT (classrooms)	21	'	21	\$5,000.00	\$109,200	1.7070	\$109,200			
06	Building electrical upgrades	1	1	1	\$75,000.00	\$78,000	1.26%	\$78,000			
)7	ELECTRICAL SYSTEMS SUBTOTAL					\$325,520	5.26%	\$325,520	\$0	\$0	\$
)8)9	7.0 SECURITY (Wright & Hunter)										
10	Door Access System	1	1	1	\$25,000.00	\$26,000	0.52%	\$26,000			
11	Surveillance System	1	1	1	\$23,000.00	\$23,920	0.48%	\$23,920			
	Secured Entry (Ehresman)	1	1	1	\$250,000.00	\$260,000	5.23%	\$260,000			
13 14	SECURITY SYSTEMS SUBTOTAL					\$309,920	5.01%	\$309,920	\$0	\$0	\$
	8.0 NOT USED										
16	071170 0117774					•	0.000/				
17 18	OTHER SUBTOTAL					\$0	0.00%	\$0	\$0	\$0	\$
	9.0 FURNITURE & EQUIPMENT										
20	Classroom furniture	1	1	1	\$100,000.00	\$104,000	1.68%			\$142,480	
21											
22											
23 24											
25	FURNITURE & EQUIPMENT SUBTOTAL					\$104,000	1.68%	\$0	\$0	\$142,480	\$
26	40.0 TECHNOLOGY (Metaba & Harrison)										
27 28	10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology	1	1	1	\$168.000.00	\$174,720	3.51%	\$174,720			
	Classroom Technology (Desktop, Laptops, Tablets)	1	1	1	\$250,000.00	\$260,000	5.23%	ψ117,120		\$356,200	
	Network Cabling	1	1	1	\$200,000.00	\$208,000	4.18%	\$208,000			
29		1	1	1	\$220,000.00	\$228,800	4.60%	\$228,800			
9	Network Wireless and Switches		1	1	\$57,600.00	\$59,904	1.20%	\$59,904			
9 0 1 2	Network Wireless and Switches Telephone System	1			\$25,000.00	\$26,000	0.52%	\$26,000			
9 0 1 2 3	Network Wireless and Switches Telephone System Public Address Systems	1 1 1	1	1 1		\$41 600	0.84%	\$41 600			
9 30 31 32 33	Network Wireless and Switches Telephone System	1		1	\$40,000.00	\$41,600 \$999,024	0.84% 16.13%	\$41,600 \$739,024	\$0	\$356,200	5
29 30 31 32 33 34 35	Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL	1		1	\$40,000.00	\$999,024	16.13%	\$739,024	•		
9 1 2 3 4 5 6 7	Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL Building Infrastructure Improvement Total:	1	1	50,200	\$40,000.00 \$99.06	\$999,024 \$4,972,705	16.13% 80.31%	\$739,024 \$3,906,687	\$243,698	\$1,186,784	;
29 30 31 32 33 34 35 36 37	Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL Building Infrastructure Improvement Total: Project Contingency:	10.00%	1 Of Buildin	50,200 g & Site Budget	\$40,000.00 \$99.06	\$999,024 \$4,972,705 \$386,968	80.31% 6.25%	\$739,024 \$3,906,687 \$316,766	\$243,698 \$24,370	\$1,186,784 \$68,810	Ş
99 30 31 32 33 34 35 36 37 38	Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL Building Infrastructure Improvement Total: Project Contingency: Permits, Testing & Printing:	1 1 10.00% 2.50%	Of Building	50,200 g & Site Budget g & Site Budget	\$40,000.00 \$99.06	\$999,024 \$4,972,705 \$386,968 \$106,416	80.31% 6.25% 1.72%	\$739,024 \$3,906,687 \$316,766 \$87,111	\$243,698 \$24,370 \$6,702	\$1,186,784 \$68,810 \$18,923	9
29 30 31 32 33 34 35 36 37 38 39 40	Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL Building Infrastructure Improvement Total: Project Contingency:	10.00%	Of Building Of Building Of Building	50,200 g & Site Budget	\$40,000.00 \$99.06	\$999,024 \$4,972,705 \$386,968	80.31% 6.25%	\$739,024 \$3,906,687 \$316,766	\$243,698 \$24,370	\$1,186,784 \$68,810	9 9 9 9 9 9



Summary of Costs Mason ES

Company Comp	Ť								1			
Part	Maso	n Elementary School			Cost Data							
Part		· · · · · · · · · · · · · · · · · · ·		Specific		1.00	(Medium)					
Part Property Pr										Cost Escal	lation Factors	
Program Area Prog							,		1.04			1.04
Part Program Area							- I - 3 -					
Draft 1-29-18										Ranked Cap	oital Priorities	
Direct Direct Long Program Area Cont Sept Program Area Cont C									Cuitinal	Defermeble	Duamantu	
1 S. S. E. Program Area		D (1 4 00 40				_	-					Other
1 Li SHE	Line	Draft 1-29-18	Required	Units	Total Area	Base Unit	Area	Total	Needs	waintenance	Ennancement	
Province	No.	Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)	
Province									1			
Register Applied Parking Lot (72 egazers) 1998 34,400 1 34,400 33.00 32,498 0.05% \$2,498 5.05% \$2,498 \$2,		1.0 SITE										
Register Applied Parking Lot (7/2 apaces) 1988 34.400 1 34.400 \$53.00 \$5126.216 2.48% \$5126.216 \$7.000												
5 19 years out												
Controlled dumpster paid			34,400	1	34,400	\$3.50	\$125,216	2.48%	\$125,216			
Flag Poie Replacement (Rocket Enterprises) 1		•	4	4	400	#C 00	60 400	0.050/	60.406			
Figs Pole Replacement (Rocket Enterprises) 1		Concrete dumpster pad	'	ļ	400	\$6.00	\$2,490	0.05%	\$2,490			
SITE SUBTOTAL STABLE STA		Flag Pole Replacement (Rocket Enterprises)	1	1	1	\$10,000,00	\$10.400	0.21%	\$10,400			
STRE SUBTOTAL STRE SUBTOTAL STREET SUBTOTA		riag role replacement (rocket Enterprises)				ψ10,000.00	ψ10,400	0.2170	ψ10,400			
SITE SUBTOTAL SITE SUBTOTA												
2		SITE SUBTOTAL					\$138,112	2.73%	\$138,112	\$0	\$0	\$0
Replace Building Mesonny					-	_						
15 Replace Roof (Slate, installed 1990, Grade C) - Repair 5,994 1 1,184 30,00 50 0,00% 50												
Replace Roof (Slate, installed 1990, Grade B)			1	1	1	\$50,000.00	\$52,000	1.03%	\$52,000			
Replace Roof (BUR, Installed 1999, Grade B)		•	5.00 :		= 00 /	** **	# 10 TO:	0.070/		#00 01 =		
Replace Roof (BUR, Installed 1999, Grade B) 1,173 1 1,173 80.00 50 0.00% S28										\$22,816		
Sepalace Roof (BUR, Installed 1999, Grade C)												
Replace Roof (BUR, installed 1996, Grade C)				-						\$528	Φυ	
Replace Roof (BUR, Installed 1996, Grade C)				-								
Replace Roof (BIR, installed 1996, Grade C)				-								
Replace Roof (BUR, installed 2006, Grade B) 3.573 1 3.573 1 3.573 5.00 \$0.00 \$0.000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.00000 \$0.000000 \$0.0000000000				1								
Replace Roof (EUR, installed 2006, Grade C)				1	3,573					• •	\$0	
Replace Roof (IBUR, installed 2006, Grade C) 106 1 106 1 3 25,000 0 5882 0 0.2% \$1,076 Patching / Curbs for new MIE Work 1 1 1 1 1 35,000 0 356,000 0 51% \$31,720 Patching / Curbs for new MIE Work 1 1 1 1 1 1 35,000 0 356,000 0 51% \$31,720 Patching / Curbs for new MIE Work 1 1 1 1 1 1 1 35,000 0 31% \$36,400 0 7.2% \$36,400 Patching / Curbs for new MIE Work 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			6,748	1	6,748	\$8.00		1.11%		\$68,495		
Packing / Curbs for new M/E Work	25	Replace Roof (BUR, installed 2006, Grade C)	494	1	494	\$8.00	\$4,110	0.08%		\$5,014		
Patching / Curbs for new M/E Work		Replace Roof (BUR, installed 2006, Grade C)	106	1	106	\$8.00	\$882	0.02%		\$1,076		
Page												
Fire Escape		Patching / Curbs for new M/E Work	1	1	1	\$25,000.00	\$26,000	0.51%		\$31,720		
Replace Windows (at stairwells) 2 1 2 \$7,500.00 \$15,600 0.31% \$15,600 \$138,195 \$0 \$0 Sult		Fire Feeders	4	4	4	¢25 000 00	£26.400	0.700/	#26 400			
Replace Windows (at stainwells) 2 1 2 87,500 0 315,600 0 31% \$15,600 0 \$138,195 \$0 \$0 Replace Windows (at stainwells) 8 BUILDING ENVELOPE SUBTOTAL Replace Mindows (at stainwells) 9 1 45,020		Fire Escape	'	ļ		\$35,000.00	\$36,400	0.72%	\$30,400			
Sult		Replace Windows (at stainvells)	2	1	2	\$7 500 00	\$15,600	0.31%	\$15,600			
35 30 10 10 10 10 10 10			-		-	ψ,,σσσ.σσ				\$138,195	\$0	\$0
38 Replace Corridor Doors & HDW 45,020 1 45,020 \$2.00 \$93,642 1.85% \$93,642 \$72,800 \$93,642 1.85% \$93,642 \$72,800 \$93,642 1.85% \$93,642 \$93,64	34											
Application	35	3.0 INTERIOR/FINISHES										
Replace Corridor Doors & HDW												
Replace Interior Room Doors and Hdw												
Al												
Cellings Cellings Cellings Cellings at Corridor S,200 1 S,200 \$4.00 \$4.00 \$4.00 \$4.00 \$4.652 0.92% \$46.592 44 Install Lay-in Cellings (16 CR's) 700 16 11,200 \$4.00 \$4.00 \$4.00 \$4.00 \$4.05 \$59.904 1.19% \$59.904 45.05 \$4.0		Replace Interior Room Doors and Hdw	18	1	18	\$1,750.00	\$32,760	0.65%	\$32,760			
Install Lay-in Tile Ceilings at Corridor 5,200 1 5,200 \$4.00 \$21,832 0.43% \$21,632 43 Install Lay-in Ceilings (16 CR's) 700 16 11,200 \$4.00 \$4.0592 0.92% \$46,592 43 45.092 44 Install Lay-in Ceilings Music Room 900 16 14,400 \$4.00 \$59,904 1.19% \$59,904 45 Install Lay-in Ceilings Comp. Lab 900 16 14,400 \$4.00 \$59,904 1.19% \$59,904 46 Install Lay-in Ceilings Library 1,500 16 24,000 \$4.00 \$99,840 1.98% \$99,840 47 47 Flooring 48 Classrooms (Carpet) 750 14 10,500 \$4.50 \$4.50 \$4.9140 0.97% \$4.9140 49 Classrooms (VCT) 750 7 5,250 \$4.50 \$4.50 \$2.4,570 0.49% \$2.4,570 50 Corridors (VCT) 1 1 5,000 \$4.50 \$2.2,800 0.41% \$20,800 51 52 Paint Areas Disturbed by Construction 20,000 1 20,000 \$1.00 \$20,800 0.41% \$20,800 \$1.90\$		Callings										
Install Lay-in Ceilings (16 CR's) 700 16 11,200 \$4.00 \$46,592 0.92% \$46,592 \$46,592 44 Install Lay-in Ceilings Music Room 900 16 14,400 \$4.00 \$59,904 1.19% \$59,904 45 119% \$59,904 45 119% \$59,904 45 119% \$59,904 45 119% \$59,904 45 119% \$59,904 45 119% \$59,904 45 119% \$59,904 45 119% \$59,904 45 119% \$59,904 45 119% \$59,904 45 119% \$59,904 45 119% \$59,904 45 119% \$59,904 45 119% \$59,904 45 119% \$59,904 45 119% 45			E 200	1	5 200	£4.00	¢21 632	0.43%	\$21.622			
Install Lay-in Ceilings Music Room												
Install Lay-in Ceilings Comp. Lab												
46 Install Lay-in Ceilings Library 1,500 16 24,000 \$4.00 \$99,840 1.98% \$99,840 47 Flooring 47 Flooring 48 Classrooms (Carpet) 750 14 10,500 \$4.50 \$49,140 0.97% \$49,140 49 Classrooms (VCT) 750 7 5,250 \$4.50 \$24,570 0.49% \$24,570 50 Corridors (VCT) 1 1 5,000 \$4.50 \$23,400 0.46% \$23,400 51 Paint Areas Disturbed by Construction 20,000 1 20,000 \$1.00 \$20,800 0.41% \$20,800 53 Casework Replace Kitchen cabinets (lowers) 6 1 6 \$150.00 \$936 0.02% \$1,142 57 Replace Kitchen cabinets (uppers) 6 1 6 \$150.00 \$936 0.02% \$1,142 58 INTERIOR/FINISHES SUBTOTAL 49 Classrooms (VCT) 750 7 5,250 \$4.50 \$23,400 0.46% \$23,400 59 INTERIOR/FINISHES SUBTOTAL 50 Applace Minimal Replacement (mains only) 45,020 1 45,020 \$3.00 \$140,462 2.78% \$12,233 \$122,239 \$122,233 \$122,289 \$122,239 \$122,239 \$122,239 \$122,239 \$120 \$1.00 \$1.												
Flooring		, , ,										
Classrooms (Carpet) 750		Flooring										
Corridors (VCT) 1 1 5,000 \$4.50 \$23,400 0.46% \$23,400 Paint Areas Disturbed by Construction 20,000 1 20,000 \$1.00 \$20,800 0.41% \$20,800 Casework	48	Classrooms (Carpet)										
Paint Areas Disturbed by Construction 20,000 1 20,000 \$1.00 \$20,800 0.41% \$20,800 \$1.00 \$20,800 0.41% \$20,800 \$1.00 \$20,800 0.41% \$20,800 \$1.00 \$20,800 0.41% \$20,800 \$1.00 \$20,800 0.41% \$20,800 \$1.00 \$20,800 0.41% \$20,800 \$1.00 \$20,800 \$1.2												
Paint Areas Disturbed by Construction 20,000 1 20,000 \$1.00 \$20,800 0.41% \$20,800 0.41% \$20,800 \$ Casework		Corridors (VCT)	1	1	5,000	\$4.50	\$23,400	0.46%	\$23,400			
Casework Casework Casework Feplace Kitchen cabinets (lowers) 6 1 6 \$250.00 \$1,560 0.03% \$1,903 56 Replace Kitchen cabinets (uppers) 6 1 6 \$150.00 \$936 0.02% \$1,142 57 57 58 INTERIOR/FINISHES SUBTOTAL \$607,480 12.02% \$604,984 \$3,045 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0		Daint Areas Districted by Canalas attack	00.000		20.000	64.00	# 00.000	0.440/	#00.000			
Casework		Faint Areas Disturbed by Construction	∠0,000	1	∠0,000	\$1.00	ა ∠∪,800	0.41%	\$∠U,8UU			
Replace Kitchen cabinets (lowers)		Casework										
Replace Kitchen cabinets (uppers) 6			6	1	6	\$250.00	\$1.560	0.03%		\$1.903		
Separation Sep												
Section Sect	57	. , ,					•					
60 Horizontal HW/CW Piping Replacement (mains only) 45,020 1 45,020 \$3.00 \$140,462 2.78% \$192,433 61 Sanitary & Storm Drain Replacement (mains only) 45,020 1 45,020 \$2.00 \$93,642 1.85% \$128,289 62 863 Replace and add domestic water valves and fittings (allow) 45,020 1 45,020 \$1.00 \$46,821 0.93% \$64,144	58						\$607,480	12.02%	\$604,984	\$3,045	\$0	\$0
61 Sanitary & Storm Drain Replacement (mains only) 45,020 1 45,020 \$2.00 \$93,642 1.85% \$128,289 62 63 Replace and add domestic water valves and fittings (allow) 45,020 1 45,020 \$1.00 \$46,821 0.93% \$64,144												
62 63 Replace and add domestic water valves and fittings (allow) 45,020 1 45,020 \$1.00 \$46,821 0.93% \$64,144 64												
63 Replace and add domestic water valves and fittings (allow) 45,020 1 45,020 \$1.00 \$46,821 0.93% \$64,144		Sanitary & Storm Drain Replacement (mains only)	45,020	1	45,020	\$2.00	\$93,642	1.85%			\$128,289	
64		Replace and add domestic water valves and fittings (allow)	45.020	4	45.020	¢1 00	\$46 924	0.03%			\$64.144	
		replace and add domestic water valves and fittings (allow)	+3,0∠0	'	+3,020	φ1.00	φ40,0∠1	0.3370			φ04, 144	
		PLUMBING SYSTEMS SUBTOTAL					\$280,925	5.56%	\$0	\$0	\$384,867	\$0



Summary of Costs Mason ES

45,02	on Elementary School 20 s.f. 2-story Building :: 1928		Geogr	cation Factor = aphic Factor = lation Factor =	1.00 1.00 1.04	(Medium) (US Median) Spring 2017		1.04	Cost Escal 1.22	ation Factors 1.37	1.04
Line No.	Program Area	Area Required (in Sq. Ft.)	No. of Rms. / Units Required	Total Area (in Sq. Ft.)	Base Unit	Effective Program Area Cost (\$)	As % of Total Cost	Critical Needs (1 - 3 years)	Deferrable Maintenance	Property Enhancement (7 - 10 years)	Other
66 67											
68 69 70 71 72 73	Heating Steam Boilers (Age 19 yrs, Weil McLien 1998) Assoc. equip., comb. Air, emerg. Gas stops change to hydronic system	2	1	2	\$125,000.00	\$260,000	5.14%	\$260,000			
74 75 76 77	New Hydronic System	40,000	1	40,000	\$18.00	\$748,800	14.81%	\$748,800			
78 79 80	Unit vent at rooms with A/C for 24 rooms New Air handler at Gym	1	1	1	\$100,000.00	\$104,000	2.06%	\$104,000			
81 82 83 84	Ventilation Replace Kitchen Exhaust Fan (No ansul or make up air	1	1	1	\$30,000.00	\$31,200	12.10%		\$38,064		
85 86 87	Commissioning	45,020 45,020	1	45,020 45,020	\$0.25 \$0.25	\$11,705 \$11,705	0.23% 0.23%	\$11,705 \$11,705			
88 89		45,020	1	45,020	\$2.50	\$117,052	2.32%	\$117,052			
90 91	HVAC SYSTEMS SUBTOTAL					\$1,284,462	25.41%	\$1,253,262	\$38,064	\$0	\$0
92 93	6.0 ELECTRICAL SYSTEMS Power for new HVAC	1	1	1	\$50,000.00	\$52,000	1.03%	\$52,000			
	Building electrical upgrades	1	1	1	\$75,000.00	\$78,000	1.54%	\$78,000			
97 98 99 100 101 102 103 104	Replace Corridor Ltg w/ LED's (New OS, Switching, etc.) Replace Ltg with LED's (16 rooms w/stem mtd fixt) Replace Ltg with LED's - Music (stem mtd fixt) Replace Ltg with LED's - Art (stem mtd fixt) Replace Ltg with LED's - Library (stem mtd fixt) Replace Ltg with LED's - Library (stem mtd fixt) Replace exterior building lights	5,200 16 1 1 1 45,020 45,020 21 21	1 1 1 1 1 1 1	5,200 16 1 1 1 45,020 45,020 21 21	\$2.00 \$3,200.00 \$4,000.00 \$4,000.00 \$5,000.00 \$0.25 \$0.25 \$500.00 \$5,000.00	\$10,816 \$53,248 \$4,160 \$4,160 \$5,200 \$11,705 \$11,705 \$10,920 \$109,200	0.21% 1.05% 0.08% 0.08% 0.10% 0.23% 0.23% 0.22% 2.16%	\$10,816 \$53,248 \$4,160 \$4,160 \$5,200 \$11,705 \$10,920 \$109,200			
106 107	ELECTRICAL SYSTEMS SUBTOTAL					\$351,114	6.95%	\$351,114	\$0	\$0	\$(
108 109 110 111 112 113	Door Access System Surveillance System Secured Entry (Ehresman)	1 1 1	1 1 1	1 1 1	\$25,000.00 \$22,000.00 \$75,000.00	\$26,000 \$22,880 \$78,000 \$126,880	8.88% 7.81% 26.63% 2.51%	\$26,000 \$22,880 \$78,000 \$126,880	\$0	\$0	\$1
	8.0 NOT USED					**	0.000/	•	••	**	
116 117						\$0	0.00%	\$0	\$0	\$0	\$(
118 119 120 121	Classroom furniture	1	1	1	\$100,000.00	\$104,000	2.06%			\$142,480	
122 123						\$104,000	2.06%	\$0	\$0	\$142,480	\$(
124 125 126 127 128 129 130 131	Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN	1 1 1 1 1 1	1 1 1 1 1	1 1 1 1 1 1	\$168,000.00 \$248,000.00 \$200,000.00 \$220,000.00 \$57,600.00 \$25,000.00 \$40,000.00	\$174,720 \$257,920 \$208,000 \$228,800 \$59,904 \$26,000 \$41,600	3.46% 5.10% 4.12% 4.53% 1.19% 0.51% 0.82%	\$174,720 \$208,000 \$228,800 \$59,904 \$26,000 \$41,600		\$353,350	
132	TECHNOLOGY SUBTOTAL					\$996,944	19.72%	\$739,024	\$0	\$353,350	\$(
				45,020	\$91.23		81.26%	\$3,317,376	\$179,304	\$880,697	\$(\$(
132 133 134 135 136 137 138 139 140	Building Infrastructure Improvement Total: Project Contingency: Permits, Testing & Printing:	10.00% 2.50% 8.00% 8.00%	Of Building	g & Site Budget g & Site Budget g & Site Budget g & Site Budget	& Contingency	\$300,625 \$82,672 \$271,164 \$292,857 \$5,054,509	5.95% 1.64% 5.36% 5.79% 100.00%	\$257,835 \$70,905 \$232,567 \$251,173 \$4,129,856	\$17,930 \$4,931 \$16,173 \$17,467 \$235,806	\$38,487 \$10,584 \$34,715 \$37,492 \$1,001,975	



Summary of Costs Monteith ES

	eith Elementary School		0 15	Cost Data	4.00	(A. II.)					
Built:	9 s.f. 2-story Building 1951		Geogr	ation Factor = aphic Factor = lation Factor =	1.00 1.00 1.04	(Medium) (US Median) Spring 2017		1.04	Cost Escala 1.22	tion Factors 1.37	1.04
									Ranked Capi	tal Priorities	
Line	Draft 1-29-18	Area Required	No. of Rms. / Units	Total Area	Base Unit	Program Area	As % of Total	Critical Needs	Deferrable Maintenance	Property Enhancement	Other
No.	Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)	
2	1.0 SITE 126 parking spaces - lot in good condition, 2005/2014										
3 4 5	Flag Pole Replacement (Rocket Enterprises)	1	1	1	\$10,500.00	\$10,920	0.16%	\$10,920			
6 7	SITE SUBTOTAL					\$10,920	0.16%	\$10,920	\$0	\$0	\$0
8 9 10	2.0 BUILDING ENVELOPE										
11 12 13 14 15	Roofing Work - J.D. Candler Report Replace Roof (BUR, installed 1987, Grade C) Replace Roof (BUR, installed 2005, Grade B) Replace Roof (BUR, installed 2005, Grade C) Replace Roof (BUR, installed 2005, Grade D)	1,192 18,991 6,563 969	1 1 1 1	1,192 18,991 6,563 969	\$8.00 \$0.00 \$8.00 \$8.00	\$9,917 \$0 \$54,604 \$8,062	0.14% 0.00% 0.79% 0.12%		\$12,099 \$66,617 \$9,836	\$0	
16 17 18 19 20	Replace Roof (BUR, installed 2005, Grade C) Replace Roof (BUR, installed 2005, Grade C) Replace Roof (BUR, installed 2005, Grade C) Patching / Curbs for new M/E Work Replace Building Masonry	3,395 4,825 1,546 1	1 1 1 1	3,395 4,825 1,546 1	\$8.00 \$8.00 \$8.00 \$25,000.00 \$50,000.00	\$28,246 \$40,144 \$12,863 \$26,000 \$52,000	0.41% 0.58% 0.19% 0.38% 0.75%	\$52,000	\$34,461 \$48,976 \$15,693 \$31,720		
21	BUILDING ENVELOPE SUBTOTAL	·	•		****	\$231,837	3.36%	\$52,000	\$219,401	\$0	\$0
23	3.0 INTERIOR/FINISHES Abatement (allow) Replace Corridor Doors & HDW	63,239 76	1	63,239 76	\$2.00 \$1,750.00	\$131,537 \$138,320	1.90% 2.00%	\$131,537 \$138,320			
26 27	Replace Interior Room Doors and Hdw	15	1	15	\$1,750.00	\$27,300	0.40%	\$27,300			
28 29	Toilet room renovations Ceilings	4	1	4	\$80,000.00	\$332,800	4.82%	\$332,800			
30 31 32 33	Install Lay-in Tile Ceilings at Corridor Install Lay-in Tile Ceilings at Classrooms Install Lay-in Tile Ceilings at Library	8,000 700 1,200	1 12 1	8,000 8,400 1,200	\$4.00 \$4.00 \$4.00	\$33,280 \$34,944 \$4,992	0.48% 0.51% 0.07%	\$33,280 \$34,944 \$4,992			
34 35 36 37 38	Music Room (Carpet) Classrooms (VCT) Corridors (VCT)	1,000 750 8,000	1 25 1	1,000 18,750 8,000	\$4.50 \$4.50 \$4.50	\$4,680 \$87,750 \$37,440	0.07% 1.27% 0.54%	\$4,680 \$87,750 \$37,440			
39 40	Paint Areas Disturbed by Construction	30,000	1	30,000	\$1.00	\$31,200	0.45%	\$31,200			
41 42 43	Casework Replace Classroom cabinets and cabinet doors	20	1	20	\$20,000.00	\$416,000	6.02%	\$416,000			
44 45	Kitchen renovation INTERIOR/FINISHES SUBTOTAL	1	1	1	\$50,000.00	\$52,000 \$1,332,243	0.75% 19.29%	\$1,280,243	\$63,440 \$63,440	\$0	\$0
46 47 48 49	4.0 PLUMBING SYSTEMS Horizontal HW/CW Piping Replacement (mains only) Sanitary & Storm Drain Replacement (mains only) Steam & Condensate Piping Replacement (allow)	63,239 63,239 63,239	1 1 1	63,239 63,239 63,239	\$3.00 \$2.00 \$1.00	\$197,306 \$131,537 \$65,769	2.86% 1.90% 0.95%			\$270,309 \$180,206 \$90,103	
50 51	Replace and add domestic water valves and fittings (allow		1	63,239	\$1.00	\$65,769	0.95%			\$90,103	
52 53	PLUMBING SYSTEMS SUBTOTAL					\$460,380	6.67%	\$0	\$0	\$630,720	\$0
54	5.0 HVAC SYSTEMS Heating										
56	Steam Boilers (Age 22 yrs, Smith 1995)	2	1	2	\$125,000.00	\$260,000	3.76%	\$260,000			
57 58	Assoc. equip., comb. Air, emerg. Gas stops Replace Steam Heating System Valves	1	1	1	\$40,000.00	\$41,600	0.60%	\$41,600			
59 60 61	Replace Gym Air Handler Replace Classroom Air Handlers (3 major units) less gym	1 59,000	1	1 59,000	\$100,000.00 \$15.00	\$104,000 \$920,400	1.51%	\$104,000 \$920,400			
63	Air conditioning - DX Replace Library split system Air conditioning - DX	30 1	1 1	30 1	\$7,500.00 \$10,000.00		3.39% 0.15%		\$12,688	\$320,580	
64 65 66 67	Ventilation Replace Exhaust Fans- Toilet Rooms Replace Kitchen Exhaust Fan (No ansul or make up air or potential other code update requirements)	1 1	1 1	1 1	\$10,000.00 \$30,000.00	\$10,400 \$31,200	0.15% 0.45%	\$10,400	\$38,064		
68 69	Air and Water Balance Commissioning	63,239 63,239	1 1	63,239 63,239	\$0.25 \$0.25	\$16,442 \$16,442	0.24% 0.24%	\$16,442 \$16,442			
70 71 72	Temperature Controls HVAC SYSTEMS SUBTOTAL	63,239	1	63,239	\$2.50	\$164,421 \$1,809,306	2.38% 26.20%	\$164,421 \$1,533,706	\$50,752	\$320,580	\$0



Summary of Costs Monteith ES

	eith Elementary School 9 s.f. 2-story Building : 1951		Geogr	cation Factor = aphic Factor = lation Factor =	1.00 1.00 1.04	(Medium) (US Median) Spring 2017		1.04	Cost Escala 1.22	tion Factors 1.37	1.04
ine	Draft 1-29-18	Area Required	No. of Rms. / Units	Total Area	Base Unit	Effective Program Area	As % of Total	Critical Needs	Ranked Capi Deferrable Maintenance	tal Priorities Property Enhancement	Other
No.	Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)	
73											
	6.0 ELECTRICAL SYSTEMS	1	1	1	¢50,000,00	REO 000	0.750/	¢52,000			
75 76	Power for new HVAC	1	1	1	\$50,000.00	\$52,000	0.75%	\$52,000			
70 77	Lighting Replace Ltg with LED's (16 rooms w/stem mtd fixt)	11	1	11	\$3,200.00	\$36,608	0.53%	\$36,608			
78	Replace Ltg with LED's (16 rooms w/stern mid fixt) Replace Ltg with LED's (Library w/stem mtd fixt)	11	1	1	\$6,500.00	\$36,608 \$6,760	0.53%	\$36,608 \$6,760			
79	Replace Exist Classroom Ltq with LED's	19	1	19	\$1,200.00	\$23,712	0.10%	\$23,712			
80	Replace Exist Olassicom Etg Willi EED's	19	'	19	ψ1,200.00	ΨΖΟ,1 ΙΖ	0.04 /0	Ψ23,112			
81	Replace exterior building lights	63,239	1	63,239	\$0.25	\$16,442	0.24%	\$16,442			
82	Replace all emergency and exit lights	63,239	1	63,239	\$0.25	\$16,442	0.24%	\$16,442			
83	Add Occupancy Sensors	40	1	40	\$500.00	\$20,800	0.30%	\$20,800			
84	Add electrical upgrade for IT (classrooms)	28	1	28	\$5,000.00	\$145,600	2.11%	\$145,600			
	Electrical upgrades	1	1	1	\$75,000.00	\$78,000	1.13%	\$78,000			
86					, .,	, .,					
87	ELECTRICAL SYSTEMS SUBTOTAL					\$396,364	5.74%	\$396,364	\$0	\$0	\$
88											
89	7.0 SECURITY (Wright & Hunter)										
90	Door Access System	1	1	1	\$25,000.00	\$26,000	0.38%	\$26,000			
91	Surveillance System	1	1	1	\$32,000.00	\$33,280	0.48%	\$33,280			
92	Secured Entry (Ehresman)	1	1	1	\$250,000.00	\$260,000	0.00%	\$260,000	••	••	
93 94	SECURITY SYSTEMS SUBTOTAL					\$319,280	4.62%	\$319,280	\$0	\$0	\$
95	8.0 NOT USED										
96	OTHER SUBTOTAL					\$0	0.00%	\$0	\$0	\$0	\$
97	Q O ELIDNITUDE & EQUIDMENT										
98	9.0 FURNITURE & EQUIPMENT Classroom furniture	1	1	1	\$100,000,00	\$104.000	1 51%			\$142 480	
98 99	9.0 FURNITURE & EQUIPMENT Classroom furniture	1	1	1	\$100,000.00	\$104,000	1.51%			\$142,480	
98 99 100		1	1	1	\$100,000.00	\$104,000	1.51%			\$142,480	
98 99 100 101 102	Classroom furniture	1	1	1	\$100,000.00						
98 99 100 101 102 103		1	1	1	\$100,000.00	\$104,000 \$104,000	1.51% 1.51%	\$0	\$0	\$142,480 \$142,480	\$
98 99 100 101 102 103 104	Classroom furniture FURNITURE & EQUIPMENT SUBTOTAL	1	1	1	\$100,000.00			\$0	\$0		\$
98 99 100 101 102 103 104 105	Classroom furniture FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter)	1	1	1		\$104,000	1.51%		\$0		\$
98 99 100 101 102 103 104 105 106	Classroom furniture FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology		1	1	\$252,000.00	\$104,000 \$262,080	1.51% 3.79%	\$0 \$262,080	\$0	\$142,480	\$
98 99 100 101 102 103 104 105 106 107	FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets)				\$252,000.00 \$353,000.00	\$104,000 \$262,080 \$367,120	1.51% 3.79% 5.32%	\$262,080	\$0		\$
98 99 100 101 102 103 104 105 106 107 108	FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling	1 1	1 1	1 1	\$252,000.00 \$353,000.00 \$50,000.00	\$104,000 \$262,080 \$367,120 \$52,000	3.79% 5.32% 0.75%	\$262,080 \$52,000	\$0	\$142,480	\$
98 99 100 101 102 103 104 105 106 107 108	FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets)	1 1 1	1 1 1	1 1 1	\$252,000.00 \$353,000.00	\$104,000 \$262,080 \$367,120	1.51% 3.79% 5.32%	\$262,080	\$0	\$142,480	\$
98 99 100 101 102	FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System	1 1 1 1	1 1 1 1	1 1 1 1	\$252,000.00 \$353,000.00 \$50,000.00 \$220,000.00 \$86,400.00	\$104,000 \$262,080 \$367,120 \$52,000 \$228,800 \$89,856	3.79% 5.32% 0.75% 3.31%	\$262,080 \$52,000 \$228,800 \$89,856	\$0	\$142,480	\$
98 99 100 101 102 103 104 105 106 107 108 109 1110	FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	\$252,000.00 \$353,000.00 \$50,000.00 \$220,000.00	\$104,000 \$262,080 \$367,120 \$52,000 \$228,800	3.79% 5.32% 0.75% 3.31% 1.30%	\$262,080 \$52,000 \$228,800	\$0	\$142,480	\$
98 99 100 101 102 103 104 105 106 107 108 109 111 111	FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems	1 1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1	\$252,000.00 \$353,000.00 \$50,000.00 \$220,000.00 \$86,400.00 \$25,000.00	\$104,000 \$262,080 \$367,120 \$52,000 \$228,800 \$89,856 \$26,000	1.51% 3.79% 5.32% 0.75% 3.31% 1.30% 0.38%	\$262,080 \$52,000 \$228,800 \$89,856 \$26,000	\$0 \$0	\$142,480	
98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113	Classroom furniture FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL	1 1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1 1	\$252,000.00 \$353,000.00 \$50,000.00 \$220,000.00 \$86,400.00 \$25,000.00 \$40,000.00	\$104,000 \$262,080 \$367,120 \$52,000 \$228,800 \$59,856 \$26,000 \$41,600 \$805,376	1.51% 3.79% 5.32% 0.75% 3.31% 1.30% 0.38% 0.60% 11.66%	\$262,080 \$52,000 \$228,800 \$89,856 \$26,000 \$41,600 \$438,256	\$0	\$142,480 \$502,954 \$502,954	\$
98 99 100 101 102 103 104 105 106 107 108 110 111 111 111 111 113	Classroom furniture FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL Building Infrastructure Improvement Total:	1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 63,239	\$252,000.00 \$353,000.00 \$50,000.00 \$220,000.00 \$86,400.00 \$25,000.00	\$104,000 \$262,080 \$367,120 \$52,000 \$228,800 \$41,600 \$41,600 \$805,376	1.51% 3.79% 5.32% 0.75% 1.30% 0.38% 0.60% 11.66%	\$262,080 \$52,000 \$228,800 \$89,856 \$26,000 \$41,600 \$438,256 \$4,030,769	\$0 \$333,593	\$142,480 \$502,954 \$502,954 \$1,596,735	\$ \$
98 99 100 101 102 103 104 105 106 107 108 109 111 112 113 114 115 116	Classroom furniture FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL Building Infrastructure Improvement Total: Project Contingency:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 63,239 g & Site Budget	\$252,000.00 \$353,000.00 \$50,000.00 \$220,000.00 \$86,400.00 \$25,000.00 \$40,000.00	\$104,000 \$262,080 \$367,120 \$52,000 \$228,800 \$41,600 \$805,376 \$5,469,706 \$456,033	1.51% 3.79% 5.32% 0.75% 3.31% 1.30% 0.60% 11.66%	\$262,080 \$52,000 \$228,800 \$89,856 \$26,000 \$41,600 \$438,256 \$4,030,769 \$359,251	\$0 \$333,593 \$33,359	\$142,480 \$502,954 \$502,954 \$1,596,735 \$95,130	\$ \$
98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117	Classroom furniture FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL Building Infrastructure Improvement Total: Project Contingency: Permits, Testing & Printing:	1 1 1 1 1 1 1 1 1 1 2.50%	1 1 1 1 1 1 1 0f Building Of Building	1 1 1 1 1 1 1 1 63,239 g & Site Budget	\$252,000.00 \$353,000.00 \$50,000.00 \$220,000.00 \$86,400.00 \$25,000.00 \$40,000.00	\$104,000 \$262,080 \$367,120 \$52,000 \$228,800 \$41,600 \$805,376 \$5,469,706 \$456,033 \$125,409	1.51% 3.79% 5.32% 0.75% 3.31% 1.30% 0.38% 0.66% 11.66%	\$262,080 \$52,000 \$228,800 \$89,856 \$26,000 \$41,600 \$438,256 \$4,030,769 \$359,251 \$98,794	\$0 \$333,593 \$33,359 \$9,174	\$142,480 \$502,954 \$502,954 \$1,596,735 \$95,130 \$26,161	\$ \$ \$ \$
98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118	FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL Building Infrastructure Improvement Total: Project Contingency: Permits, Testing & Printing: Construction Manager Fee and Costs:	1 1 1 1 1 1 1 1 1 10.00% 2.50% 8.00%	1 1 1 1 1 1 1 0f Building Of Building Of Building	1 1 1 1 1 1 1 1 63,239 g & Site Budget g & Site Budget	\$252,000.00 \$353,000.00 \$50,000.00 \$22,000.00 \$86,400.00 \$40,000.00 \$86.49	\$104,000 \$262,080 \$367,120 \$52,000 \$22,800 \$41,600 \$805,376 \$5,469,706 \$456,033 \$125,409 \$411,342	1.51% 3.79% 5.32% 0.75% 3.31% 0.38% 0.60% 11.66% 79.19% 6.60% 1.82%	\$262,080 \$52,000 \$228,800 \$89,856 \$26,000 \$41,600 \$438,256 \$4,030,769 \$359,251 \$98,794 \$324,045	\$333,593 \$33,359 \$9,174 \$30,090	\$142,480 \$502,954 \$502,954 \$1,596,735 \$95,130 \$26,161 \$85,807	\$ \$ \$ \$ \$
98 99 100 101 102 103 104 105 106 107 108 110 111 112 113 114 115 116 117 118	Classroom furniture FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL Building Infrastructure Improvement Total: Project Contingency: Permits, Testing & Printing:	1 1 1 1 1 1 1 1 1 1 2.50%	1 1 1 1 1 1 1 0f Building Of Building Of Building	1 1 1 1 1 1 1 1 63,239 g & Site Budget	\$252,000.00 \$353,000.00 \$50,000.00 \$22,000.00 \$86,400.00 \$40,000.00 \$86.49	\$104,000 \$262,080 \$367,120 \$52,000 \$228,800 \$41,600 \$805,376 \$5,469,706 \$456,033 \$125,409	1.51% 3.79% 5.32% 0.75% 3.31% 1.30% 0.38% 0.66% 11.66%	\$262,080 \$52,000 \$228,800 \$89,856 \$26,000 \$41,600 \$438,256 \$4,030,769 \$359,251 \$98,794	\$0 \$333,593 \$33,359 \$9,174	\$142,480 \$502,954 \$502,954 \$1,596,735 \$95,130 \$26,161	\$



Summary of Costs Poupard ES

	ord Elementary School S.s.f. 2-story Building 1951		Geogr	Cost Data cation Factor = aphic Factor = lation Factor =	1.00 1.00 1.04	(Medium) (US Median) Spring 2017		1.04	Cost Escala 1.22	1.37	1.04
Line No.	Draft 1-29-18	Area Required	No. of Rms. / Units	Total Area	Base Unit	Program Area	As % of Total	Critical Needs	Ranked Capi Deferrable Maintenance (4 - 6 years)	Property Enhancement	Other
NO.	Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(+ - 0 y cars)	(1 - 10 years)	
1 2 3 4	1.0 SITE Flag Pole Replacement (Rocket Enterprises)	1	1	1	\$5,000.00	\$5,200	0.07%	\$5,200			
5 6 7	Paving Replace Asphalt Parking Lot (62 spaces) 2010 Catch Basins	29,800	1	29,800	\$3.50 \$5,000.00		1.40% 0.13%		\$132,336 \$12,688		
8 9 10	Replace Asphalt East Playground Lot	9,700	1	9,700	\$3.50	\$35,308	0.46%		\$43,076		
11 12	SITE SUBTOTAL					\$159,380	2.06%	\$5,200	\$188,100	\$0	\$0
	2.0 BUILDING ENVELOPE Roofing Work - J.D. Candler Report										
16 17 18 19 20 21	Replace Roof (BUR, installed 1996, Grade D) Replace Roof (BUR, installed 1996, Grade D) Replace Roof (BUR, installed 1999, Grade D) Replace Roof (BUR, installed 1999, Grade D) Replace Roof (BUR, installed 1999, Grade C) Replace Roof (BUR, installed 2002, Grade C) Replace Roof (BUR, installed 2002, Grade C)	12,742 1,605 9,944 4,213 955 89	1 1 1 1 1	12,742 1,605 9,944 4,213 955 89	\$8.00 \$8.00 \$8.00 \$8.00 \$8.00 \$8.00	\$106,013 \$13,354 \$82,734 \$35,052 \$7,946 \$740	1.37% 0.17% 1.07% 0.45% 0.10% 0.01%	\$106,013 \$13,354 \$82,734 \$35,052 \$7,946 \$740			
22 23 24 25 26	Replace Roof (BUR, installed 2002, Grade D) Replace Roof (BUR, installed 2002, Grade D) Replace Roof (BUR, installed 2002, Grade B) Replace Building Masonry Patching / Curbs for new M/E Work	356 500 508 1 1	1 1 1 1	356 500 508 1 1	\$8.00 \$8.00 \$0.00 \$50,000.00 \$25,000.00	\$2,962 \$4,160 \$0 \$52,000 \$26,000	0.04% 0.05% 0.00% 0.67% 0.34%	\$2,962 \$4,160 \$52,000 \$26,000		\$0	
27 28 29 30	Tuck-pointing at windows Replace Windows Doors Exterior Hollow Metal Doors / Frames / Hardware	86 2,000	1 1	86 2,000	\$250.00 \$55.00 \$2,500.00	\$22,360 \$114,400 \$28,600	0.29% 1.48% 0.37%	\$22,360 \$114,400	\$34,892		
31	Exterior Aluminum Doors / Frames / Hardware	6	1	6	\$3,500.00	\$21,840	0.28%		\$26,645		
32 33	BUILDING ENVELOPE SUBTOTAL					\$518,161	6.70%	\$467,721	\$61,537	\$0	\$0
34 35 36	3.0 INTERIOR/FINISHES										
37 38 39 40 41 42	Abatement (allow) Replace Corridor Doors & HDW Replace Interior Room Doors and Hdw Tollet room renovations Kitchen renovation	61,973 65 25 8 1	1 1 1 1	61,973 65 25 8 1	\$2.00 \$1,750.00 \$1,750.00 \$80,000.00 \$50,000.00	\$128,904 \$118,300 \$45,500 \$665,600 \$52,000	1.67% 1.53% 0.59% 8.61% 0.67%	\$128,904 \$118,300 \$45,500 \$665,600		\$71,240	
43 44 45 46	Ceilings Install Ceiling in Media Center (currently 12x12 tiles) Install Ceiling in Classrooms (currently 12x12 tiles)	900 750	1 26	900 19,500	\$4.00 \$4.00	\$3,744 \$81,120	0.05% 1.05%	\$3,744 \$81,120			
47 48 49 50 51	Flooring Classrooms (VCT) Corridors (CPT) Offices (CPT)	700 2,900 750	26 1 1	18,200 2,900 750	\$4.00 \$4.00 \$4.50		0.98% 0.16% 0.05%		\$92,369 \$14,718 \$4,282		
52 53 54 55	Paint Areas Disturbed by Construction	61,973	1	61,973	\$1.00	\$64,452	0.83%		\$78,631		
56 57 58	Casework Replace classroom casework (lowers)	20	8	160	\$250.00	\$41,600	0.54%		\$50,752		
59	INTERIOR/FINISHES SUBTOTAL					\$1,292,506	16.71%	\$1,043,168	\$240,752	\$71,240	\$0
60 61 62	4.0 PLUMBING SYSTEMS										
63 64 65 66 67	Horizontal HW/CW Piping Replacement (mains only) Sanitary & Storm Drain Replacement (mains only) Steam & Condensate Piping Replacement (allow) Replace and add domestic water valves and fittings (allow Hot water tank - 50 gal., 6 years old	61,973 61,973 61,973 61,973	1 1 1 1	61,973 61,973 61,973 61,973	\$3.00 \$2.00 \$1.00 \$1.00	\$193,356 \$128,904 \$64,452 \$64,452	2.50% 1.67% 0.83% 0.83%			\$264,897 \$176,598 \$88,299 \$88,299	
68	PLUMBING SYSTEMS SUBTOTAL					\$451,163	5.83%	\$0	\$0	\$618,094	\$0



Summary of Costs Poupard ES

	ard Elementary School 3 s.f. 2-story Building 1951		Geogr	Cost Data cation Factor = aphic Factor = lation Factor =	1.00 1.00 1.04	(Medium) (US Median) Spring 2017		1.04	Cost Escala	ation Factors 1.37	1.04
Line	Draft 1-29-18	Area Required	No. of Rms. / Units	Total Area	Base Unit	Effective Program Area	As % of Total	Critical Needs	Deferrable Maintenance	oital Priorities Property Enhancement	Other
No.	Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)	
71	5.0 HVAC SYSTEMS										
72 73 74	Heating Steam Boilers (1997 Weil McLain, age 20 yrs) Assoc. equip., comb. Air, emerg. Gas stops	2	1	2	\$125,000.00	\$260,000	3.36%	\$260,000			
75 76 77	Replace Steam Heating System Valves	1	1	1	\$40,000.00	\$41,600	0.54%	\$41,600			
78	New Air handler - Gym	1	1	1	\$100,000.00	\$104,000	1.34%	\$104,000			
79 80	Replace Classroom Air Handlers (3 major units) less gym Replace RTU's at Library, Staff Lounge, Sci, 207	56,000 3	1 1	56,000 3	\$15.00	\$873,600	11.30% 0.40%	\$873,600 \$31,200			
81	Unit Ventilator in Library	1	1	1	\$10,000.00 \$20,000.00		0.40%	\$20,800			
	Air conditioning (only 4-6 rooms have A/C)	28	1	28	\$7,500.00		2.82%	, ,,,,,		\$299,208	
85 86	Ventilation Replace Kitchen Exhaust Fan (No ansul or make up air or potential other code update requirements)	1	1	1	\$30,000.00	\$31,200	0.40%		\$38,064		
87 88 89	Transformer Room Ventilation Air and Water Balance	61,973	1	1 61,973	\$10,000.00 \$0.25	\$10,400 \$16,113	0.13%	\$10,400 \$16.113			
90 91	Commissioning Temperature Controls	61,973 61,973	1 1	61,973 61,973	\$0.25 \$2.50	\$16,113 \$161,130	0.21% 2.08%	\$16,113 \$161,130			
92 93	HVAC SYSTEMS SUBTOTAL					\$1,784,556	23.07%	\$1,534,956	\$38,064	\$299,208	\$0
94	A A EL EGERDIA L OVOTEMO								•		
95 96	6.0 ELECTRICAL SYSTEMS										
97	Power for new HVAC Building electrical upgrades	1 1	1 1	1 1	\$50,000.00 \$75,000.00	\$52,000 \$78,000	0.67% 1.01%	\$52,000 \$78,000			
100	Lighting										
101	Replace Exist Classroom Ltg with LED's	8	1	8	\$1,200.00	\$9,984	8.00%	\$9,984			
102 103	Replace Ltg with LED's (21 rooms w/stem mtd fixt) Replace Corridor Ltg w/ LED's (currently 2x4 floures)	21 8,000	1	21 8,000	\$3,200.00 \$2.00	\$69,888 \$16,640	56.00% 13.33%	\$69,888 \$16,640			
104	Replace all emergency and exit lights	61,973	1	61,973	\$0.25	\$16,113	0.21%	\$16,113			
105	Add Occupancy Sensors	29	1	29	\$500.00	\$15,080	0.19%	\$15,080 \$145,600			
106 107 108	Add electrical upgrade for IT (classrooms) ELECTRICAL SYSTEMS SUBTOTAL	28	1	28	\$5,000.00	\$145,600 \$403,305	1.88% 5.21%	\$145,600 \$403,305	\$0	\$0	SI
109	ELECTRICAL STSTEMS SUBTOTAL					\$ 4 03,303	3.21/0	φ403,303	φ0	φ0	ų.
	7.0 SECURITY (Wright & Hunter)	4	4	4	¢25 000 00	#20,000	0.240/	¢20,000			
111 112	Door Access System Surveillance System	1	1 1	1	\$25,000.00 \$28,000.00	\$26,000 \$29,120	0.34% 0.38%	\$26,000 \$29,120			
113	Secured Entry (Ehresman)	1	1	1	\$250,000.00	\$260,000	3.36%	\$260,000			
114 115	SECURITY SYSTEMS SUBTOTAL					\$315,120	4.07%	\$315,120	\$0	\$0	\$
117	8.0 NOT USED										
118 119	OTHER SUBTOTAL					\$0	0.00%	\$0	\$0	\$0	\$
120 121	9.0 FURNITURE & EQUIPMENT										
122	Classroom furniture	1	1	1	\$100,000.00	\$104,000	1.34%			\$142,480	
123 124											
125 126	Food Service Equipment (Allowance)	1	1	1	\$20,000.00	\$20,800	0.27%			\$28,496	
127 128	FURNITURE & EQUIPMENT SUBTOTAL					\$124,800	1.61%	\$0	\$0	\$170,976	\$1
129 130	10.0 TECHNOLOGY (Wright & Hunter)										
131	Instructional Technology	1	1	1	\$210,000.00	\$218,400	2.82%	\$218,400			
132 133	Classroom Technology (Desktop, Laptops, Tablets) Network Cabling	1	1 1	1 1	\$323,000.00 \$200,000.00	\$335,920 \$208,000	4.34% 2.69%	\$208,000		\$460,210	
134	Network Wireless and Switches	1	1	1	\$220,000.00	\$228,800	2.96%	\$228,800			
135	Telephone System	1	1	1	\$72,000.00	\$74,880	0.97%	\$74,880			
136 137	Public Address Systems Fiber WAN	1	1 1	1 1	\$25,000.00 \$40,000.00	\$26,000 \$41,600	0.34% 0.54%	\$26,000 \$41,600			
138	TECHNOLOGY SUBTOTAL					\$1,133,600	14.66%	\$797,680	\$0	\$460,210	\$0
139 140	Building Infrastructure Improvement Total:			61,973	\$99.76	\$6,182,591	79.94%	\$4,567,150	\$528,453	\$1,619,728	\$(
141	Project Contingency:	10.00%		g & Site Budget		\$492,419	6.37%	\$376,947	\$52,845	\$98,854	\$0
142	Permits, Testing & Printing: Construction Manager Fee and Costs:	2.50% 8.00%		g & Site Budget g & Site Budget		\$135,415 \$444,162	1.75%	\$103,660 \$340,006	\$14,532 \$47,666	\$27,185 \$80,166	\$(
143 144	Professional Fees & Costs:	8.00%		g & Site Budget g & Site Budget			5.74% 6.20%	\$340,006 \$367,207	\$47,666 \$51,480	\$89,166 \$96,300	\$0 \$0
145	PROJECT TOTAL					\$7,734,283	100.00%	\$5,754,970	\$694,977	\$1,931,234	\$(
				_	_		_	_	_		\$8,381,18



Summary of Costs Richard ES

	rd Elementary School 9 s.f. 3-story Building 1930		•	Cost Data cation Factor = aphic Factor =	1.00 1.00	(Medium) (US Median)			Cost Fecal	ation Factors	
Built.	1950		_	lation Factor =	1.04	Spring 2017		1.04	1.22	1.37	1.04
			No. of			Effective			•	oital Priorities	
Line	Draft 1-29-18	Area Required	Rms. / Units	Total Area	Base Unit	Program Area	As % of Total	Critical Needs	Deferrable Maintenance	Property Enhancement	Other
No.	Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)	
1	1.0 SITE										ĺ
2	Paving - 2013 mill and surface										
4	Replace Asphalt Parking Lot (44 spaces) Partial Lot	20,500	1	20,500	\$3.50		1.80%	\$74,620			
5 6	Catch Basins Concrete sidewalks	1	1	1 1,000	\$5,000.00 \$6.00		0.13% 0.15%	\$5,200 \$6,240			
7	osilorete siaemame	·		1,000	ψ0.00	Ψ0,210	0.1070	ψ0,210			
8 9 10	SITE SUBTOTAL					\$86,060	2.08%	\$86,060	\$0	\$0	\$0
11						400,000	2.00 /0	400,000	+ 0	ΨŪ	ţ,
12 13	2.0 BUILDING ENVELOPE Replace Building Masonry	1	1	1	\$50,000.00	\$52,000	1.25%	\$52,000			
14	Roofing Work - J.D. Candler Report	1 001	1	1 001	CO.OO	£15 650	0.200/		£10.003		
15 16	Replace Roof (Slate, installed 1950, Grade C) - Repair Replace Roof (Slate, installed 1950, Grade C) - Repair	1,881 3,138	1	1,881 3,138	\$8.00 \$4.00		0.38% 0.32%		\$19,093 \$15,926		
17	Replace Roof (Slate, installed 1950, Grade C) - Repair	1,881	1	1,881	\$4.00		0.19%		\$9,546		
18 19	Replace Roof (Slate, installed 1950, Grade C) - Repair Replace Roof (BUR, installed 1990, Grade D)	1,306 152	1	1,306 152	\$7.00 \$8.00		0.23% 0.03%	\$1,265	\$11,599		
20	Replace Roof (BUR, installed 1990, Grade F)	100	1	100	\$8.00		0.02%	\$832			
21	Replace Roof (, installed 1990, Grade C)	164	1	164	\$8.00		0.03%	\$1,364			
22 23	Replace Roof (Mod. SBS, installed 1995, Grade D) Patching / Curbs for new M/E Work	8,142 1	1	8,142 1	\$8.00 \$25,000.00		1.63% 0.63%	\$67,741	\$31,720		
24	Replace stair windows	2	1	2	\$7,500.00		0.38%	\$15,600	ψο 1,1 20		
25	Fire Escape	1	1	1	\$35,000.00		0.88%	\$36,400			
26 27	Replace Copper Gutters (allow) BUILDING ENVELOPE SUBTOTAL	1	1	1	\$20,000.00	\$20,800 \$268,039	0.50% 6.47%	\$20,800 \$196,003	\$87,885	\$0	\$0
28 29	3.0 INTERIOR/FINISHES										
30											
31 32	Abatement (allow) Replace Corridor Doors & HDW	56,099 35	1 1	56,099 35	\$2.00 \$1,750.00		2.82% 1.54%	\$116,686 \$63,700			
33	Replace Interior Room Doors and Hdw	18	1	18	\$1,750.00		0.79%	\$32,760			
34	·										
35 36	Classrooms (Carpet)	750	2	1,500	\$4.50	\$7,020	0.17%	\$7,020			
37	Classrooms (VCT)	750	18	13,500	\$4.50		1.52%	\$63,180			
38 39	Paint Areas Disturbed by Construction	20,000	1	20,000	\$1.00	\$20,800	0.50%	\$20,800			
40	Mechanical room doors	2	1	2	\$3,500.00		0.18%	\$7,280			
41 42	Waterproof Mechanical Room Walls Casework	1	1	1	\$40,000.00	\$41,600	1.00%	\$41,600			
43	Replace classroom casework	6	1	6	\$6,000.00	\$37,440	0.90%		\$45,677		
44 45	INTERIOR/FINISHES SUBTOTAL					\$390,466	9.42%	\$353,026	\$45,677	\$0	\$0
46 47	4.0 PLUMBING SYSTEMS Horizontal HW/CW Piping Replacement (mains only)	56,099	1	56,099	\$3.00	\$175,029	4.22%			\$239,790	
48	Sanitary & Storm Drain Replacement (mains only)	56,099	1	56,099	\$2.00		2.82%			\$159,860	
49	Steam & Condensate Piping Replacement (allow)	56,099	1	56,099	\$1.00		1.41%			\$79,930	
50 51	Replace and add domestic water valves and fittings (allow) PLUMBING SYSTEMS SUBTOTAL	56,099	1	56,099	\$1.00	\$58,343 \$408,401	1.41% 9.86%	\$0	\$0	\$79,930 \$559,509	\$0
52 53	5.0 HVAC SYSTEMS										
54 55	Heating										
	Steam Boilers (Age 16 yrs, Weil McLien 2001)	2	1	2	\$190,000.00	\$395,200	9.54%	\$395,200			
57	Assoc. equip., comb. Air, emerg. Gas stops	4	4		£40.000.00	044.000	4.000/	044.000			
58 59	Replace Steam Heating System Valves	1	1	1	\$40,000.00	\$41,600	1.00%	\$41,600			
60 61	Unit Vents in Classrooms 8 yrs old Ventilation										
62	Replace Exhaust Fans - Toilet rms	2	1	2	\$10,000.00		0.50%	\$20,800			
63	Replace Kitchen Exhaust Fan (No ansul or make up air	1	1	1	\$30,000.00	\$31,200	0.75%	\$31,200			
64 65	or potential other code update requirements) Air and Water Balance	56,099	1	56,099	\$0.25	\$14,586	0.35%	\$14,586			
66	Commissioning	56,099	1	56,099	\$0.25		0.35%	\$14,586			
67 68	Temperature Controls (90% Medysis)	56,099	1	56,099	\$0.25	\$14,586	0.35%	\$14,586			
69 70	100% A/C HVAC SYSTEMS SUBTOTAL			•		\$532,557	12.85%	\$532,557	\$0	\$0	\$0
71	TIVAC STSTEMS SUBTUTAL					φυυ 2, 00 <i>1</i>	12.03%	ψ552,557	φU	ΨU	φυ



Summary of Costs Richard ES

9 s.f. 3-story Building 1930		•	cation Factor =	1.00	(Medium)			04-5	-ti F t	
1930		Ŭ	aphic Factor =	1.00 1.04	(US Median) Spring 2017		1.04	1.22	ation Factors 1.37	1.04
		COST ESCA	ilation ractor =	1.04	Spring 2017		1.04	1.22	1.57	1.05
								Ranked Cap	ital Priorities	
	Area	No. of Rms. /			Eπective Program	As % of	Critical	Deferrable	Property	041
Draft 1-29-18	Required	Units	Total Area	Base Unit	Area	Total	Needs	Maintenance	Enhancement	Oth
Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)	
6.0 ELECTRICAL SYSTEMS			<u> </u>	· · · · · ·						
Lighting										
Replace Ltg ballasts with LED's (29 rooms, 2x4 lay in)	29	1	29	\$1,200.00	\$36,192	0.87%	\$36,192			
Install new LED Ltg in corridors (2x4 lay in)	56	1	56	\$225.00	\$13,104	0.32%	\$13,104			
Replace exterior building lights	56,099	1	56,099	\$0.25	\$14,586	0.35%	\$14,586			
Replace all emergency and exit lights	56,099	1	56,099	\$0.25	\$14,586	0.35%	\$14,586			
Add Occupancy Sensors	29	1	29	\$500.00	\$15,080	0.36%	\$15,080			
Add electrical upgrade for IT (classrooms)	25 1	1	25 1	\$5,000.00	\$130,000	3.14%	\$130,000			
Building electrical upgrades		'	1	\$75,000.00	\$78,000	1.88%	\$78,000			
ELECTRICAL SYSTEMS SUBTOTAL					\$301,547	7.28%	\$301,547	\$0	\$0	
7.0 SECURITY (Wright & Hunter)										
Door Access System	1	1	1	\$25,000.00	\$26,000	0.63%	\$26,000			
Surveillance System	1	1	1	\$23,000.00	\$23,920	0.58%	\$23,920			
Secured Entry (Ehresman)	1	1	1	\$200,000.00	\$208,000	5.02% 6.22%	\$208,000	\$0	\$0	
SECURITY SYSTEMS SUBTOTAL					\$257,920	6.22%	\$257,920	\$ U	ŞU	
8.0 NOT USED										
OTHER SUBTOTAL					\$0	0.00%	\$0	\$0	\$0	
9.0 FURNITURE & EQUIPMENT										
Classroom furniture	1	1	1	\$100,000.00	\$104,000	2.51%			\$142,480	
				,,	, , , , , , , , , , , , , , , , , , , ,				, , ,	
FURNITURE & EQUIPMENT SUBTOTAL					\$104,000	2.51%	\$0	\$0	\$142,480	
10.0 TECHNOLOGY (Wright & Hunter)										
Instructional Technology	1	1	1	\$182,000.00	\$189,280	0.00%	\$189,280			
Classroom Technology (Desktop, Laptops, Tablets)	1	1	1	\$316,000.00	\$328,640	7.93%			\$450,237	
Network Cabling	1	1	1	\$200,000.00	\$208,000	5.02%	\$208,000			
Network Wireless and Switches	1	1	1	\$220,000.00	\$228,800	5.52%	\$228,800			
Telephone System	1	1	1	\$62,400.00	\$64,896	1.57%	\$64,896			
Public Address Systems	1	1	1	\$25,000.00	\$26,000	0.63%	\$26,000			
Fiber WAN	1	1	1	\$40,000.00	\$41,600	1.00%	\$41,600			
TECHNOLOGY SUBTOTAL					64 007 046	26.24%	6750 576	\$0	6450 227	
TECHNOLOGY SUBTOTAL					\$1,087,216	26.24%	\$758,576	\$0	\$450,237	
Building Infrastructure Improvement Total:			56,099	\$61.25	\$3,436,207	82.93%	\$2,485,689	\$133,562	\$1,152,226	
Project Contingency:	10.00%	Of Buildin	g & Site Budget	-	\$224,499	5.42%	\$172,711	\$13,356	\$55,951	
Permits, Testing & Printing:	2.50%		g & Site Budget		\$61,737	1.49%	\$47,496	\$3,673	\$15,386	
Construction Manager Fee and Costs:	8.00%		g & Site Budget		\$202,498	4.89%	\$155,786	\$12,047	\$50,468	
	8.00%		g & Site Budget	& Contingency	\$218,698	5.28%	\$168,248	\$13,011	\$54,505	
Professional Fees & Costs:	0.0076	Of Dullulli	g a cite baaget	& Contingency	Ψ=.0,000	0.2070	Ψ.00,Σ.0	Ψ.0,0	ΨΟ-1,000	



Summary of Costs Trombly ES

3,110	bly Elementary School 0 s.f. 2-story Building 1927		Geogr	cation Factor = aphic Factor = lation Factor =	1.00 1.00 1.04	(Medium) (US Median) Spring 2017		1.04	Cost Escal	ation Factors 1.37	1.04
ine	Draft 1-29-18	Area Required	No. of Rms. / Units	Total Area	Base Unit	Effective Program Area	As % of Total	Critical Needs	Deferrable	oital Priorities Property Enhancement	Other
No.	Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)	
1 '	1.0 SITE										
2	Replace Asphalt Parking Lot (49 spaces) 2013 Mill & Surface	21,850	1	21,850	\$3.50	\$79,534	1.63%		\$97,031		
3 4	Fencing Flag Pole Replacement (Rocket Enterprises)	600 1	1	600 1	\$10.00 \$3,000.00	\$6,240 \$3,120	0.13% 0.06%	\$6,240 \$3,120			
5		•	•		ψο,σσσ.σσ						
6 7	SITE SUBTOTAL					\$88,894	1.83%	\$9,360	\$97,031	\$0	
-	2.0 BUILDING ENVELOPE										
9 10	Roofing Work - J.D. Candler Report										
11	Replace Roof (Asphalt, installed 1995, Grade F)	266	1	266	\$8.00	\$2,213	0.05%	\$2,213			
12	Replace Roof (Slate, installed 1989, Grade C) - Repair	2,568	1	2,568	\$4.00	\$10,683	0.22%	04.040	\$13,033		
13 14	Replace Roof (BUR, installed 1999, Grade F) Replace Roof (EPDM, installed 1999, Grade F)	161 176	1	161 176	\$8.00 \$8.00	\$1,340 \$1,464	0.03% 0.03%	\$1,340 \$1,464			
5	Replace Roof (BUR, installed 2003, Grade C)	5,843	1	5,843	\$8.00	\$48,614	1.00%	\$1,404	\$59,309		
6	Replace Roof (BUR, installed 2003, Grade C)	1,563	1	1,563	\$8.00	\$13,004	0.27%		\$15,865		
7	Replace Roof (BUR, installed 2003, Grade B)	554	1	554	\$0.00	\$0	0.00%		,	\$0	
8	Replace Roof (Slate, installed ?, Grade C) - Repair	11,442	1	11,442	\$4.00	\$47,599	0.98%		\$58,070		
19	Patching / Curbs for new M/E Work	1	1	1	\$25,000.00	\$26,000	0.53%	***	\$31,720		
20 21	Paint window frames/trim Replace Building Masonry	1	1	1 1	\$25,000.00 \$50,000.00	\$26,000	0.53% 1.07%	\$26,000 \$52,000			
22	Replace Building Masonly	'	'	'	\$50,000.00	\$52,000	1.07 70	\$32,000			
23						****	. ====	***			
4 5	BUILDING ENVELOPE SUBTOTAL					\$228,916	4.70%	\$83,017	\$177,997	\$0	
6	3.0 INTERIOR/FINISHES										
27	Abatement (allow)	43,110	1	43,110	\$2.00	\$89,669	1.84%	\$89,669			
.0 /	Replace Corridor Doors & HDW	53	1	53	\$1,750.00	\$96,460	1.98%	\$96,460			
80	Replace Interior Room Doors and Hdw	20	1	20	\$1,750.00	\$36,400	0.75%	\$36,400			
1	Replace Boiler Room Doors and Hdw	2	1	2	\$2,500.00	\$5,200	0.11%	\$5,200			
2	Ceilings	700	8	5.000	04.00	#00.000	0.400/	#00 000			
3 34	Install Lay-in Tile Clgs at C.R. (currently 12 x 12) Install new Lay-in Tile at Library (currently 2x4)	700 1,500	1	5,600 1,500	\$4.00 \$2.00	\$23,296 \$3,120	0.48% 0.06%	\$23,296 \$3,120			
35	Install new Lay-in Tile at Corridor (currently 2x4)	4,000	1	4,000	\$2.00	\$8,320	0.17%	\$8,320			
6	Classrooms (Carpet)	750	6	4,500	\$4.50	\$21,060	0.43%	\$21,060			
37	Corridors (Carpet)	4,000	1	4,000	\$4.50	\$18,720	0.38%	\$18,720			
88	Classrooms (VCT)	750	18	13,500	\$4.50	\$63,180	1.30%	\$63,180			
9 10	Kitchen improvements Paint Areas Disturbed by Construction	30,000	1 1	1 30,000	\$50,000.00 \$1.00	\$52,000 \$31,200	1.07% 0.64%	\$52,000 \$31,200			
1	Fairit Areas Disturbed by Construction	30,000	'	30,000	\$1.00	φ31,200	0.04%	φ31,200			
2	Casework										
3 4	Replace classroom casework	4	1	4	\$6,000.00	\$24,960	0.51%			\$34,195	
5	INTERIOR/FINISHES SUBTOTAL					\$473,585	9.73%	\$448,625	\$0	\$34,195	
6	4.0 PLUMBING SYSTEMS Horizontal HW/CW Piping Replacement (mains only)	43,110	1	43,110	\$3.00	\$134,503	2.76%			\$184,269	
8	Sanitary & Storm Drain Replacement (mains only)	43,110	1	43,110	\$2.00	\$89,669	1.84%			\$122,846	
9 0	Replace and add domestic water valves and fittings (allow)	43,110	1	43,110	\$1.00	\$44,834	0.92%			\$61,423	
1 2	PLUMBING SYSTEMS SUBTOTAL					\$269,006	5.53%	\$0	\$0	\$368,539	
3	5.0 HVAC SYSTEMS										
4 5 I	Heating										
6	Steam Boilers (Weil McLain) - switch to hydronic	2	1	2	\$125,000.00	\$260,000	5.34%	\$260,000			
7	Assoc. equip., comb. Air, emerg. Gas stops	40 44-		40.446	*10.5-	0007.017	40.500/	0007.015			
	New Hydronic System	43,110	1	43,110	\$18.00	\$807,019	16.58%	\$807,019			
9 0	Current - (2) open tunnels, one warm air, one return air with room damper control system										
	New air handlers - Gym	1	1	1	\$100,000.00	\$104,000	2.14%	\$104,000			
	Ventilation	•	•	·		,		, , ,,,,,,,,,,			
3	Replace Kitchen Exhaust Fan (No ansul or make up air	1	1	1	\$30,000.00	\$31,200	0.64%	\$31,200			
4	or potential other code update requirements)										
5	Air and Water Balance	43,110	1	43,110	\$0.25	\$11,209	0.23%	\$11,209			
6 7	Commissioning Temperature Controls	43,110 43,110	1	43,110 43,110	\$0.25 \$2.50	\$11,209 \$112,086	0.23% 2.30%	\$11,209 \$112,086			
7 8	remperature Controls	43,110	1	43,110	\$2.50	φ i 1∠,Uŏ6	∠.30%	\$112,086			
						\$1,224,636	25.16%	\$1,224,636	\$0	\$0	



Summary of Costs Trombly ES

10 s.f. 2-story Building t: 1927		•	cation Factor =	1.00 1.00	(Medium) (US Median)			Cost Escala	ation Factors	
			lation Factor =	1.04	Spring 2017		1.04	1.22	1.37	1.04
								Pankod Can	ital Priorities	
		No. of			Effective		Critical	Deferrable		
Draft 1-29-18	Area Required	Rms. / Units	Total Area	Base Unit	Program Area	As % of Total	Needs		Property Enhancement	Othe
Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)	
6.0 ELECTRICAL SYSTEMS										
Building electrical upgrades	1	1	1	\$75,000.00	\$78,000	1.60%	\$78,000			
Power for new HVAC (original switch gear)	1	1	1	\$50,000.00	\$52,000	1.07%	\$52,000			
Lighting										
Install LED's (8 classrooms) currently stem mtd flour.	8	1	8	\$3,200.00	\$26,624	0.55%	\$26,624			
Install 2x4 LED's in Corridors	4,000	1	4,000	\$2.00	\$8,320	0.17%	\$8,320			
Install ballast for LED's in Classrooms	13	1	13	\$1,200.00	\$16,224	0.33%	\$16,224			
Install ballast for LED's in Library	10 110	1	1	\$2,500.00	\$2,600	0.05%	\$2,600			
Replace exterior building lights	43,110	1	43,110	\$0.25	\$11,209	0.23%	\$11,209			
Replace all emergency and exit lights	43,110		43,110	\$0.25	\$11,209	0.23%	\$11,209			
Add Occupancy Sensors Add electrical upgrade for IT (classrooms)	35 21	1 1	35 21	\$500.00	\$18,200	0.37% 2.24%	\$18,200 \$109,200			
Add electrical upgrade for FF (classrooms)	21	'	21	\$5,000.00	\$109,200	2.24%	\$109,200			
ELECTRICAL SYSTEMS SUBTOTAL	•				\$333,585	6.85%	\$333,585	\$0	\$0	
7.0 SECURITY (Wright & Hunter)				605 000 00	#00.000	0.500/	600.000			
Door Access System Surveillance System	1	1 1	1 1	\$25,000.00 \$66,000.00	\$26,000	0.53% 1.41%	\$26,000 \$68,640			
Surveillance System Secured Entry (Ehresman)	1	1	1	\$200.000.00	\$68,640 \$208.000	4.27%	\$208.000			
SECURITY SYSTEMS SUBTOTAL		į	'	φ200,000.00	\$302,640	6.22%	\$208,000 \$302,640	\$0	\$0	
8.0 NOT USED OTHER SUBTOTAL	<u>. </u>				\$0	0.00%	\$0	\$0	\$0	
9.0 FURNITURE & EQUIPMENT										
Classroom furniture	1	1	1	\$100,000.00	£104.000	2.14%			£440,400	
Classroom turniture	1	'	1	\$100,000.00	\$104,000	2.14%			\$142,480	
•										
					\$104,000	2 14%	\$0	\$0	\$142.480	
					\$104,000	2.14%	\$0	\$0	\$142,480	
FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter)								\$0	\$142,480	
FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology	1	1	1	\$147,000.00	\$152,880	3.14%	\$0 \$152,880	\$0		
FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets)	1	1	1	\$203,000.00	\$152,880 \$211,120	3.14% 4.34%	\$152,880	\$0	\$142,480 \$289,234	
FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling	1 1 1	1	1 1	\$203,000.00 \$200,000.00	\$152,880 \$211,120 \$208,000	3.14% 4.34% 4.27%	\$152,880 \$208,000	\$0		
FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches	1 1 1 1	1 1 1	1 1 1	\$203,000.00 \$200,000.00 \$220,000.00	\$152,880 \$211,120 \$208,000 \$228,800	3.14% 4.34% 4.27% 4.70%	\$152,880 \$208,000 \$228,800	\$0		
FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System	1 1 1 1	1 1 1 1	1 1 1 1	\$203,000.00 \$200,000.00 \$220,000.00 \$50,400.00	\$152,880 \$211,120 \$208,000 \$228,800 \$52,416	3.14% 4.34% 4.27% 4.70% 1.08%	\$152,880 \$208,000 \$228,800 \$52,416	\$0		
FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems	1 1 1 1 1	1 1 1 1 1	1 1 1 1	\$203,000.00 \$200,000.00 \$220,000.00 \$50,400.00 \$25,000.00	\$152,880 \$211,120 \$208,000 \$228,800 \$52,416 \$26,000	3.14% 4.34% 4.27% 4.70% 1.08% 0.53%	\$152,880 \$208,000 \$228,800 \$52,416 \$26,000	\$0		
FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN	1 1 1 1	1 1 1 1	1 1 1 1	\$203,000.00 \$200,000.00 \$220,000.00 \$50,400.00	\$152,880 \$211,120 \$208,000 \$228,800 \$52,416	3.14% 4.34% 4.27% 4.70% 1.08%	\$152,880 \$208,000 \$228,800 \$52,416	\$0		
FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN	1 1 1 1 1 1	1 1 1 1 1	1 1 1 1	\$203,000.00 \$200,000.00 \$220,000.00 \$50,400.00 \$25,000.00	\$152,880 \$211,120 \$208,000 \$228,800 \$52,416 \$26,000	3.14% 4.34% 4.27% 4.70% 1.08% 0.53%	\$152,880 \$208,000 \$228,800 \$52,416 \$26,000	\$0 \$0		
FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL	1 1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	\$203,000.00 \$200,000.00 \$220,000.00 \$50,400.00 \$25,000.00 \$40,000.00	\$152,880 \$211,120 \$208,000 \$228,800 \$52,416 \$26,000 \$41,600	3.14% 4.34% 4.27% 4.70% 1.08% 0.53% 0.85%	\$152,880 \$208,000 \$228,800 \$52,416 \$26,000 \$41,600 \$709,696	\$0	\$289,234 \$289,234	
FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL Building Infrastructure Improvement Total:	1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1	1 1 1 1 1 1 1	\$203,000.00 \$200,000.00 \$220,000.00 \$50,400.00 \$25,000.00	\$152,880 \$211,120 \$208,000 \$228,800 \$52,416 \$26,000 \$41,600 \$920,816 \$3,946,079	3.14% 4.34% 4.27% 4.70% 1.08% 0.53% 0.85% 18.92%	\$152,880 \$208,000 \$228,800 \$52,416 \$26,000 \$41,600 \$709,696 \$3,111,559	\$0 \$275,029	\$289,234 \$289,234 \$834,448	
Instructional Technology (Wright & Hunter) Instructional Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL Building Infrastructure Improvement Total: Project Contingency:	10.00%	1 1 1 1 1 1 1	1 1 1 1 1 1 1 43,110 g & Site Budget	\$203,000.00 \$200,000.00 \$220,000.00 \$50,400.00 \$25,000.00 \$40,000.00	\$152,880 \$211,120 \$208,000 \$228,800 \$52,416 \$26,000 \$41,600 \$920,816 \$3,946,079 \$292,126	3.14% 4.34% 4.27% 4.70% 1.08% 0.53% 0.85% 18.92% 81.08% 6.00%	\$152,880 \$208,000 \$228,800 \$52,416 \$26,000 \$41,600 \$709,696 \$3,111,559 \$240,186	\$0 \$275,029 \$27,503	\$289,234 \$289,234 \$834,448 \$40,273	
Instructional Technology (Wright & Hunter) Instructional Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL Building Infrastructure Improvement Total: Project Contingency: Permits, Testing & Printing:	10.00%	of Building	1 1 1 1 1 1 1 1 43,110 g & Site Budget g & Site Budget	\$203,000.00 \$200,000.00 \$220,000.00 \$50,400.00 \$25,000.00 \$40,000.00	\$152,880 \$211,120 \$208,000 \$228,800 \$52,416 \$26,000 \$41,600 \$920,816 \$3,946,079 \$202,126 \$80,335	3.14% 4.34% 4.27% 4.70% 1.08% 0.53% 0.85% 18.92% 81.08% 6.00% 1.65%	\$152,880 \$208,000 \$228,800 \$52,416 \$26,000 \$41,600 \$709,696 \$3,111,559 \$240,186 \$66,051	\$0 \$275,029 \$27,503 \$7,563	\$289,234 \$289,234 \$834,448 \$40,273 \$11,075	
FURNITURE & EQUIPMENT SUBTOTAL 10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL Building Infrastructure Improvement Total: Project Contingency: Permits, Testing & Printing: Construction Manager Fee and Costs:	10.00% 2.50% 8.00%	of Building Of Building Of Building	1 1 1 1 1 1 1 43,110 g & Site Budget g & Site Budget	\$203,000.00 \$200,000.00 \$220,000.00 \$50,400.00 \$55,000.00 \$40,000.00	\$152,880 \$211,120 \$208,000 \$228,800 \$52,416 \$26,000 \$41,600 \$920,816 \$3,946,079 \$292,126 \$80,335 \$263,498	3.14% 4.34% 4.27% 4.70% 1.08% 0.53% 0.85% 18.92% 81.08% 6.00% 5.41%	\$152,880 \$208,000 \$228,800 \$25,416 \$26,000 \$41,600 \$709,696 \$3,111,559 \$240,186 \$66,051 \$216,648	\$0 \$275,029 \$27,503 \$7,563 \$24,808	\$289,234 \$289,234 \$834,448 \$40,273 \$11,075 \$36,327	
Instructional Technology (Wright & Hunter) Instructional Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL Building Infrastructure Improvement Total: Project Contingency: Permits, Testing & Printing:	10.00%	of Building Of Building Of Building	1 1 1 1 1 1 1 1 43,110 g & Site Budget g & Site Budget	\$203,000.00 \$200,000.00 \$220,000.00 \$50,400.00 \$55,000.00 \$40,000.00	\$152,880 \$211,120 \$208,000 \$228,800 \$52,416 \$26,000 \$41,600 \$920,816 \$3,946,079 \$202,126 \$80,335	3.14% 4.34% 4.27% 4.70% 1.08% 0.53% 0.85% 18.92% 81.08% 6.00% 1.65%	\$152,880 \$208,000 \$228,800 \$52,416 \$26,000 \$41,600 \$709,696 \$3,111,559 \$240,186 \$66,051	\$0 \$275,029 \$27,503 \$7,563	\$289,234 \$289,234 \$834,448 \$40,273 \$11,075	



Summary of Costs Brownell MS

Brown	nell Middle School			Cost Data							
157,49 Built:	93 s.f. 2-story Building			ation Factor =	1.00 1.00	(Medium) (US Median)			Cost Esca	lation Factors	
June				ation Factor =	1.04	Spring 2017		1.04	1.22	1.37	1.04
									Ranked Ca	pital Priorities	
		Area	No. of Rms. /			Effective	As % of	Critical	Deferrable	Property	Other
Line	Draft 1-29-18	Required	Units	Total Area	Base Unit	Program Area	Total	Needs		Enhancement	
No.	Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)	
1 2	1.0 SITE										
3	Paving										
4 5	Replace Asphalt Parking Lot (144 spaces) 2010	72,000	1	72,000	\$3.50	\$262,080	2.29%		\$319,738		
6											
7 8	SITE SUBTOTAL					\$262,080	2.29%	\$0	\$319,738	\$0	\$0
9 10	2.0 BUILDING ENVELOPE										
11											
12 13	Roofing Work - J.D. Candler Report Replace Roof (BUR, installed 1999, grade C)	7,208	1	7,208	\$8.00	\$59,971	0.52%		\$73,164		
14 15	Replace Roof (BUR, installed 1999, grade C) Replace Roof (BUR, installed 1999, grade C)	22,674 5,617	1	22,674 5,617	\$8.00 \$8.00	\$188,648 \$46,733	1.65% 0.41%		\$230,150 \$57,015		
16	Replace Roof (BUR, installed 1999, grade C) Replace Roof (BUR, installed 1999, grade D)	10,922	1	10,922	\$8.00	\$90,871	0.80%	\$90,871	\$57,015		
17	Replace Roof (BUR, installed 1999, grade D)	14,780	1	14,780	\$8.00	\$122,970	1.08%	\$122,970			
18 19	Replace Roof BUR, installed 2007, grade B) Replace Roof BUR, installed 2007, grade B)	482 549	1 1	482 549	\$0.00 \$0.00	\$0 \$0	0.00% 0.00%			\$0 \$0	
20 21	Replace Roof BUR, installed 2007, grade B)	1,283 377	1	1,283 377	\$0.00 \$0.00	\$0 \$0	0.00%			\$0 \$0	
22	Replace Roof BUR, installed 2007, grade B) Replace Roof BUR, installed 2007, grade B)	411	1	411	\$0.00	\$0	0.00%			\$0	
23 24	Replace Roof BUR, installed 2007, grade B) Replace Roof BUR, installed 2007, grade B)	423 1,371	1	423 1,371	\$0.00 \$0.00	\$0 \$0	0.00%			\$0 \$0	
25	Replace Roof BUR, installed 2007, grade B) Replace Roof BUR, installed 2009, grade B)	15,035	1	15,035	\$0.00	\$0	0.00%			\$0	
26 27	Replace Roof (BUR, installed 2010, grade C) Replace Roof (BUR, installed 2010, grade B)	12,365 707	1	12,365 707	\$8.00 \$0.00	\$102,877 \$0	0.90%		\$125,510	\$0	
28	Replace Roof (BUR, installed 2010, grade B)	3,437	1	3,437	\$0.00	\$0	0.00%			\$0	
29 30	Replace Roof (BUR, installed 2014, grade A) Replace Roof (BUR, installed 2014, grade A)	57,797 4,906			\$0.00 \$0.00					\$0 \$0	
31	Patching / Curbs for new M/E Work	4,500	1	1	\$50,000.00	\$52,000	0.46%		\$63,440	90	
32 33	Replace Building Masonry	1	1	1	\$75,000.00	\$78,000	14.12%	\$78,000			
34	BUILDING ENVELOPE SUBTOTAL					\$742,069	6.50%	\$291,841	\$549,279	\$0	\$0
	3.0 INTERIOR/FINISHES										
37 38	Abatement (allow)	157,493	1	157,493	\$2.00	\$327,585	2.87%	\$327,585			
39	Replace door hardware	1	30	30	\$500.00	\$15,600	0.14%	\$15,600			
40 41	Flooring Classrooms (VCT)	750	12	9,000	\$4.50	\$42,120	0.37%	\$42,120			
42	Replace Pool Tile, Gutter	1	1	1	\$25,000.00	\$26,000	0.23%		\$31,720		
43 44	Paint Areas Disturbed by Construction Ceiling Replacement	20,000 800	1 12	20,000 9,600	\$1.00 \$4.00	\$20,800 \$39,936	0.18% 0.35%	\$20,800 \$39,936			
45 46	Toilet room renovations INTERIOR/FINISHES SUBTOTAL	8	1	8	\$80,000.00	\$665,600 \$1,137,641	5.83% 9.96%	\$665,600 \$1,111,641	\$31,720	\$0	\$0
47						\$1,101,011	0.0070	\$1,111,041	Ų01,120		Ψ.
48 49	4.0 PLUMBING SYSTEMS Horizontal HW/CW Piping Replacement (mains only)	157,493	1	157,493	\$3.00	\$491,378	4.30%			\$673,188	
50 51	Sanitary & Storm Drain Replacement (mains only)	157,493 157,493	1	157,493 157,493	\$2.00 \$1.00	\$327,585	2.87% 1.43%			\$448,792 \$224,396	
52	Steam & Condensate Piping Replacement (allow) Replace and add domestic water valves and fittings (allow)	157,493	1	157,493	\$1.00	\$163,793 \$163,793	1.43%			\$224,396	
53 54											
55	Replace Pool pump, motor, filter, flow meter, valves, piping	1	1	1	\$140,000.00	\$145,600	1.27%	\$145,600			
57	gauges, install backwash air gap, chemical pumps, finishes PLUMBING SYSTEMS SUBTOTAL					\$1,292,149	11.31%	\$145,600	\$0	\$1,570,772	\$0
	5.0 HVAC SYSTEMS										
60 61	Heating										
62	Steam Boilers (1995, 24 years old)	2	1	2	\$180,000.00	\$374,400	3.28%	\$374,400			
63 64	Replace Steam Heating System Valves	1	1	1	\$80,000.00	\$83,200	0.73%	\$83,200			
65	Replace 2nd Floor Units Vents	14	1	14	\$20,000.00	\$291,200	2.55%	\$291,200			
66 67	Replace Art Room Units Vent Replace Gym AHU's	1	1	1	\$20,000.00 \$100,000.00	\$20,800 \$312,000	0.18% 2.73%	\$20,800 \$312,000			
68			,								
69 70	Boiler for Domestic Hot Water (Lochinvar, 2001)	1	1	1	\$50,000.00	\$52,000	0.46%	\$52,000			
71 72	Boiler for Pool (Lochinvar, 2008) Pool AHU	1	1	1 1	\$50,000.00 \$350,000.00	\$52,000 \$364,000	0.46% 3.19%		\$63,440	\$498,680	
73	. 55.74.15	'	'	'	ψυσυ,υυυ.υυ	φυσ4,000	0.1070			ψ+30,000	
74 75											
76	Air Conditioning - Add DX units	31	1	31	\$7,500.00	\$241,800	2.12%			\$331,266	
77 78	Ventilation										
79	Replace Kitchen Exhaust Fan (No ansul or make up air	1	1	1	\$30,000.00	\$31,200	0.27%	\$31,200			
80 81	or potential other code update requirements) Replace Exhaust Fans at Toilet Rooms	4	1	4	\$10,000.00	\$41,600	0.36%	\$41,600			
82	Temperature Controls (Currently on BASS system)	157,493	1	157,493	\$2.50	\$409,482	3.58%	\$409,482			
83 84	Air and Water Balance Commissioning	157,493 157,493	1 1	157,493 157,493	\$0.25 \$0.25		0.36% 0.36%	\$40,948 \$40,948			
85 86	HVAC SYSTEMS SUBTOTAL					\$2,355,578	20.62%	\$1,697,778	\$63,440	\$829,946	\$0
- 55	OTOTEMO GODIOTAL					4 =,000,010	_ 3.04 /0	+.,001,110	¥00,440	2020,040	Ψυ



Summary of Costs Brownell MS

	nell Middle School 93 s.f. 2-story Building 1956		Geogr	Cost Data ation Factor = aphic Factor = ation Factor =	1.00 1.00 1.04	(Medium) (US Median) Spring 2017		1.04	Cost Esca	alation Factors 1.37	1.04
Line	Draft 1-29-18	Area Required	No. of Rms. / Units	Total Area	Base Unit	Effective Program Area	As % of Total	Critical Needs	Deferrable	pital Priorities Property Enhancement	Other
No.	Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)	
89 90 91 92 93 94 95 96	6.0 ELECTRICAL SYSTEMS Lighting Replace Lighting with LED's Replace exterior building lights Replace all emergency and exit lights Add electrical upgrade for IT (classrooms) Building electrical upgrades ELECTRICAL SYSTEMS SUBTOTAL	35 157,493 157,493 40 1	1 1 1 1	35 157,493 157,493 40 1	\$1,200.00 \$0.25 \$0.25 \$5,000.00 \$125,000.00	\$43,680 \$40,948 \$40,948 \$208,000 \$130,000	0.38% 0.36% 0.36% 1.82% 1.14%	\$43,680 \$40,948 \$40,948 \$208,000 \$130,000	\$0	\$0	\$
99 100	7.0 SECURITY (Wright & Hunter) Door Access System Surveillance System Secured Entry (Ehresman) SECURITY SYSTEMS SUBTOTAL	1 1 1	1 1 1	1 1 1	\$50,000.00 \$87,000.00 \$450,000.00	\$52,000 \$90,480 \$468,000 \$610,480	0.46% 0.79% 0.00% 5.34%	\$52,000 \$90,480 \$468,000 \$610,480	\$0	\$0	\$
	8.0 NOT USED OTHER SUBTOTAL					\$0	0.00%	\$0	\$0	\$0	\$
	9.0 FURNITURE & EQUIPMENT Classroom furniture	1	1	1	\$125,000.00	\$130,000	1.14%			\$178,100	
114 115	FURNITURE & EQUIPMENT SUBTOTAL					\$130,000	1.14%	\$0	\$0	\$178,100	
118 119 120 121 122 123 124 125	10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	\$294,000.00 \$531,000.00 \$750,000.00 \$350,000.00 \$100,800.00 \$75,000.00 \$80,000.00	\$305,760 \$552,240 \$780,000 \$364,000 \$104,832 \$78,000 \$83,200 \$2,268,032	2.68% 4.83% 6.83% 3.19% 0.92% 0.68% 0.73% 19.85%	\$305,760 \$780,000 \$364,000 \$104,832 \$78,000 \$83,200 \$1,715,792	\$0	\$756,569 \$756,569	:
126 127 128 129 130	Building Infrastructure Improvement Total: Project Contingency: Permits, Testing & Printing: Construction Manager Fee and Costs: Professional Fee& Costs: PROJECT TOTAL	10.00% 2.50% 8.00% 8.00%	Of Buildin	157,493 g & Site Budgel g & Site Budgel g & Site Budgel g & Site Budgel	t	\$9,261,606 \$686,357 \$188,748 \$619,094	81.07% 6.01% 1.65% 5.42% 5.85%	\$6,036,709 \$432,092 \$118,825 \$389,747 \$420,926 \$7,398,299	\$964,176 \$96,418 \$26,515 \$86,969 \$93,926 \$1,268,004	\$3,335,387 \$240,072 \$66,020 \$216,545 \$233,868 \$4,091,892	5
132	FROJECT TOTAL					\$11,424,428	100.00%	φ1,330,299	φ1,200,004	φ4,031,032	\$12,758,1



	lls Middle School 55 s.12-story Building 1951		Geog	Cost Data cation Factor = raphic Factor = alation Factor =	1.00 1.00 1.04	(Medium) (US Median) Spring 2017		1.04	Cost Esc	alation Factors	1.04
			0001 2001	addon' dotor	1.01	Opting 2017		1.01		apital Priorities	1.01
Line No.	Draft 1-29-18 Program Area	Area Required (in Sq. Ft.)	No. of Rms. / Units Required	Total Area (in Sq. Ft.)	Base Unit Cost (\$)	Effective Program Area Cost (\$)	As % of Total Cost	Critical Needs (1 - 3 years)	Deferrable	Property Enhancement (7 - 10 years)	Other
	1.0 SITE										
2 3 4 5	Paving Replace Asphalt Parking Lot (85 spaces) Replace Asphalt Parking Lot -Mack Ave (15 spaces)	30,850 10,300	1 1	30,850 10,300	\$3.50 \$3.50	\$112,294 \$37,492	0.82% 0.27%	\$112,294	\$45,740		
6	Replace Bus loop concrete	12,200	1	12,200	\$6.00	\$76,128	0.56%	\$76,128			
9	SITE SUBTOTAL					\$225,914	1.65%	\$188,422	\$45,740	\$0	\$0
	2.0 BUILDING ENVELOPE				675 000 00	\$78,000	0.570/	679.000			
12 13 14	Replace Building Masonry Roofing Work - J.D. Candler Report	11,907	1	11,907	\$75,000.00 \$8.00	\$99,066	0.57%	\$78,000	\$120,861		
15	Replace Roof (BUR, installed 1992, grade C) Replace Roof (BUR, installed 1992, grade C)	15,541	1	15,541	\$8.00	\$129,301	0.95%	***	\$157,747		
16 17	Replace Roof (BUR, installed 1992, grade F) Replace Roof (BUR, installed 1992, grade C)	7,680 9,236	1 1	7,680 9,236	\$8.00 \$8.00	\$63,898 \$76,844	0.47% 0.56%	\$63,898	\$93,749		
18 19	Replace Roof (BUR, installed 1992, grade C) Replace Roof (BUR, installed 1992, grade C)	519 4,111	1	519 4,111	\$8.00 \$8.00	\$4,318 \$34,204	0.03% 0.25%		\$5,268 \$41,728		
20	Replace Roof (BUR, installed 1996, grade C)	7,351	1	7,351	\$8.00	\$61,160	0.45%		\$74,616		
21 22	Replace Roof (BUR, installed 1996, grade C) Replace Roof (BUR, installed 1996, grade C)	31,118 1,404	1	31,118 1,404	\$8.00 \$8.00	\$258,902 \$11,681	1.89% 0.09%		\$315,860 \$14,251		
23	Replace Roof (BUR, installed 1996, grade C)	2,119	1	2,119	\$8.00	\$17,630	0.13%		\$21,509		
24 25	Replace Roof (BUR, installed 1996, grade C) Replace Roof (BUR, installed 2003, grade C)	2,713 2,766	1	2,713 2,766	\$8.00 \$8.00	\$22,572 \$23,013	0.17% 0.17%		\$27,538 \$28,076		
26	Replace Roof (BUR, installed 2005, grade C)	7,318	1	7,318	\$8.00	\$60,886	0.17 %		\$74,281		
27 28	Replace Roof (BUR, installed 2005, grade C)	9,933	1	9,933 751	\$8.00	\$82,643	0.60%		\$100,824		
28 29	Replace Roof (BUR, installed 2005, grade C) Replace Roof (BUR, installed 2006, grade C)	751 3,321	1	3,321	\$8.00 \$8.00	\$6,248 \$27,631	0.05% 0.20%		\$7,623 \$33,709		
30	Replace Roof (BUR, installed 2009, grade B)	2,556	1	2,556	\$0.00	\$0	0.00%			\$0	
31 32	Replace Roof (BUR, installed 2013, grade A) Patching / Curbs for new M/E Work	7,993 1	1	7,993 1	\$0.00 \$50,000.00	\$0 \$52,000	0.00% 0.38%		\$63,440	\$0	
33 34	Doors										
35 36	Exterior Hollow Metal Doors / Frames / Hardware Exterior Aluminum Doors / Frames / Hardware	4 30	1	4 30	\$2,500.00 \$3,500.00	\$10,400 \$109,200	0.08% 0.80%			\$14,248 \$149,604	
37 38	BUILDING ENVELOPE SUBTOTAL	30		30	ψ0,000.00	\$1,229,596	9.00%	\$141,898	\$1,181,080	\$163,852	\$0
39						\$1,229,596	9.00%	\$141,090	\$1,101,000	\$163,052	\$0
40 41	3.0 INTERIOR/FINISHES										
42 43	Abatement (allow) Doors & Hardware	208,855	1	208,855	\$2.00	\$434,418	3.18%	\$434,418			
43	Replace all other interior doors with new wood doors	1	175	175	\$1,750.00	\$318,500	2.33%	\$318,500			
45 46	Replace Mechanical Room Doors	1	12	12	\$2,500.00	\$31,200	0.23%	\$31,200			
47	Ceilings										
48 49	Replace Corridor Ceilings Replace Ceiling in Classrooms (currently 12x12)	38,000 750	1 11	38,000 8,250	\$4.00 \$4.00	\$158,080 \$34,320	1.16% 0.25%	\$158,080 \$34,320			
50 51	Flooring										
52	Hard Tile - Replace entry quarry tile	4,200	1	4,200	\$15.00	\$65,520	0.48%	\$65,520			
53 54	Classrooms (VCT) Corridors (VCT)	700 38,000	38 1	26,600 38,000	\$4.00 \$4.00	\$110,656 \$158,080	0.81% 1.16%	\$110,656 \$158,080			
55 56	Paint Areas Disturbed by Construction	125,000	1	125,000	\$1.00	\$130,000	0.95%	\$130,000			
57											
58 59	Renovate (8) toilet rooms Renovate Kitchen	1	8 1	8	\$80,000.00 \$100,000.00	\$665,600 \$104,000	4.87% 0.76%	\$665,600	\$126,880		
60	Renovate walk in coolers	2	1	2	\$50,000.00	\$104,000	0.76%		\$126,880		
61 62	Renovate pass-thru refrig.	1	1	1	\$30,000.00	\$31,200	0.23%		\$38,064		
63											
64 65	Casework										
66 67	Replace classroom casework (lowers)	200 200	1	200 200	\$250.00 \$150.00	\$52,000	0.38%		\$63,440	\$42,744	
68	Additional/new classroom casework (uppers)	200		200	φ130.00	\$31,200	0.23%			φ42,/44	
69 70	INTERIOR/FINISHES SUBTOTAL					\$2,428,774	17.77%	\$2,106,374	\$355,264	\$42,744	\$0
	4.0 PLUMBING SYSTEMS										
73 74											
75	Replace Pool gutter and assoc. piping and tile	1	1	1	\$130,000.00	\$135,200	0.99%	\$135,200			
76 77	Replace Pool mechanical room equipment Replace Pool Return Piping, Drain Lines	1	1	1	\$70,000.00 \$30.000.00	\$72,800 \$31,200	0.53% 0.23%	\$72,800 \$31,200			
78	Replace Pool Surge Tank	1	1	1	\$45,000.00	\$46,800	0.34%	\$46,800			
79 80	Replace Pool Filter system Replace Pool Boiler (1996 Lochinvar)	1	1	1	\$75,000.00 \$50,000.00	\$78,000 \$52,000	0.57% 0.38%	\$78,000 \$52,000			
81	Lockinvar 1996 750,000 BTU				\$55,000.00	¥32,000	5.5070	\$32,000			
	Replace Domestic Hot Water Boiler	1	1	1	\$50,000.00	\$52,000	0.38%	\$52,000			
84 85	Lockinvar 1998 750,000 BTU										
86	Horizontal HW/CW Piping Replacement (mains only)	208,855	1	208,855	\$3.00	\$651,628	4.77%	I		\$892,730	
87 88	Sanitary & Storm Drain Replacement (mains only) Steam & Condensate Piping Replacement (allow)	208,855 208,855	1	208,855 208,855	\$2.00 \$1.00	\$434,418 \$217,209	3.18% 1.59%			\$595,153 \$297,577	
89	Replace and add domestic water valves and fittings (allow)	208,855	1	208,855	\$1.00	\$217,209	1.59%			\$297,577	
90 91											
92	PLUMBING SYSTEMS SUBTOTAL					\$1,988,464	14.55%	\$468,000	\$0	\$2,083,036	\$0

Summary of Costs Parcells MS

Second Part	Parce	ells Middle School			Cost Data							
Part				Specifi		1.00	(Medium)					
Diraft 1-29-18				Geog	raphic Factor =		(US Median)					
Part 1-29-18				Cost Esca	alation Factor =	1.04	Spring 2017		1.04	1.22	1.37	1.04
Part										Ranked C	apital Priorities	
Program Arms			Area				Effective	As % of	Critical	Deferrable	Property	Other
	Line	Draft 1-29-18			Total Area	Base Unit			Needs	Maintenance	Enhancement	Other
Security	No.	Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)	
Section Common Figs 19 yrs 1	93	SA UNA O OVOTEMO										
Register Looker Floor, 19 yn) 3 1 3 \$190,000 \$822,00 4,34% \$502,200 \$824,00	95	5.0 HVAC SYSTEMS										
Bank	96	Heating										
Replace Clarem Health golystem Values	97 98		3	1	3	\$190,000.00	\$592,800	4.34%	\$592,800			
Regisce Locker Room A-HU 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	99	Replace Steam Heating System Valves		1	1							
Replace Loder Room AHU 1 1 1 1 1 1 100,000 00 5100,000 0 76% \$104,000 Pool definimidification 1 1 1 1 1 1 5100,000 00 5310,000 1.54% \$288,000 Ar Conditioning - DX 27 1 27 \$7,500 00 \$210,000 1.54% \$288,502 Ar Conditioning - DX 40 Ar Conditioning - DX 41 1 1 1 350,000,000 5312,000 1.54% \$288,502 42 Accorditioning - DX 43 Replace Room Room Room Room Room Room Room Roo	100	Replace Condensation Pumps/piping	3	1	3	\$20,000.00	\$62,400	0.46%	\$62,400			
Replace Locker Room AFU	101											
Pool dehumdification	103											
OF Proc. of Section 1 1 1 \$150,000.00 \$340,000 \$26,0	104 105	Replace Locker Room AHU	1	1	1	\$100,000.00	\$104,000	0.76%	\$104,000			
Air Conditioning - DX	106	Pool dehumidification	1	1	1	\$350,000.00	\$364,000	2.66%	I		\$498,680	
Veriliation	107		0-	,					I			
10 Membra 10 Membra 1 1 1 1 1 1 1 1 1	108 109	Air Conditioning - DX	27	1	27	\$7,500.00	\$210,600	1.54%			\$288,522	
12 Comparisation of the code option requirements) 1	110											
13 Register Total Floom Flans	111		1	1	1	\$30,000.00	\$31,200	0.23%	I	\$38,064		
14 Ara of Water Balance 208,865 1 208,865 32 584,302 0.40% 584,302	112		1	6	6	\$10,000.00	\$62,400	0.46%	\$62,400			
Page	114	Air and Water Balance	208,855	1	208,855	\$0.25	\$54,302	0.40%	\$54,302			
Temperature Controls (Combo Medysa & BASS) 208,855 1 208,855 \$2,50 \$343,023 337% \$543,023 \$376,000 \$380	115 116	Commissioning	208,855	1	208,855	\$0.25	\$54,302	0.40%	\$54,302			
HVAC SYSTEMS SUBTOTAL \$2,162,228 15,82% \$1,556,428 \$38,064 \$787,202 \$9	117	Temperature Controls (Combo Medysis & BASS)	208,855	1	208,855	\$2.50	\$543,023	3.97%	\$543,023			
Selectrical Systems	118	HIVAC SYSTEMS SUBTOTAL					60 460 000	45 000/	£4 EEC 420	620.064	6707 202	**
2 Selectrical SYSTEMS	120	HVAC STSTEMS SUBTUTAL					\$2,162,226	15.02%	\$1,556,426	\$30,004	\$767,202	şυ
23 Power for additional AC	121	6.0 ELECTRICAL SYSTEMS										
24 Lighting		Power for additional A/C	1	1	1	\$75,000,00	\$78,000	0.57%			\$106.860	
Replace anterior building lights 208,855 1 208,855 50.25 \$54,302 0.40% \$54,302 \$72,760 \$	124	Lighting									\$100,000	
Page	125											
28 Add Occupancy Sensors 38 1 38 \$50,000 \$19,760 0.14% \$19,760 2.22 800 2.2	126				208,855			0.40%				
Second S	128	Add Occupancy Sensors	38		38		\$19,760	0.14%	\$19,760			
Security		Add electrical upgrade for IT (classrooms)	43	1	43	\$5,000.00	\$223,600	1.64%	\$223,600			
	131	Building electrical upgrades	1	1	1	\$125,000.00	\$130,000					
34 1.0	132	ELECTRICAL SYSTEMS SUBTOTAL					\$885,778	6.48%	\$807,778	\$0	\$106,860	\$0
Secured Entry (Ehresman)		7.0 SECURITY (Wright & Hunter)										
Secured Entry (Éhresman) 1 1 \$275,000.00 \$286,000 2.09% \$286,000 \$286,000 \$328,00	135											
SECURITY SYSTEMS SUBTOTAL \$444,080 3.25% \$444,080 \$0 \$0 \$0 \$1												
Solution	138	SECURITY SYSTEMS SUBTOTAL		•			\$444,080	3.25%	\$444,080	\$0	\$0	\$0
According to the substitute Acco	139	8 0 NOT USED										
Solid Control of Con	141	<u>0.0 NOT 00EB</u>										
Section Sect	142 143	OTHER SURTOTAL					*0	0.00%	• • • • • • • • • • • • • • • • • • • •	en	•0	en
Section Project Contingency 1	144	OTHER SUBTOTAL					ψU	0.00%	ąυ	ψU	ąυ	\$0
April FURNITURE & EQUIPMENT SUBTOTAL \$232,700 1.70% \$0 \$283,894 \$0 \$1	145											
48 49 50 51 FURNITURE & EQUIPMENT SUBTOTAL \$232,700 1.70% \$0 \$283,894 \$0 \$1 1	146	Replace Auditorium Seating	895	1	895	\$250.00	\$232,700	1.70%		\$283,894		
FURNITURE & EQUIPMENT SUBTOTAL \$232,700 1.70% \$0 \$283,894 \$0 \$1 \$1 \$1 \$329,000.00 \$342,160 \$2.50% \$342,160 \$3.668,336 \$3.688,396	148											
Section Sect	149								I			
Section Sect	150 151	FURNITURE & EQUIPMENT SUBTOTAL					\$232,700	1.70%	\$0	\$283,894	\$0	\$0
Instructional Technology 1	152						,		,,,	,	**	
Section Calsaroom Technology (Desktop, Laptops, Tablets)	153	10.0 TECHNOLOGY (Wright & Hunter)	4	4	1	\$329 000 00	\$342.160	2 50%	\$342.160			
Network Cabling	154	Classroom Technology (Desktop, Laptops, Tablets)		1		\$572,000.00	\$594,880	4.35%			\$814,986	
Telephone System 1 1 1 112,800.00 117,312 0.86% 0.57%	155	Network Cabling	1			\$50,000.00	\$52,000	0.38%				
58 Public Address Systems 1 1 1 \$75,000.00 \$78,000 \$78,000 \$0.57% \$78,000	156 157		1									
TECHNOLOGY SUBTOTAL S1,117,792 8.18% \$522,912 \$0	158	Public Address Systems		1	1	\$75,000.00	\$78,000	0.57%	\$78,000			
61 801 Building Infrastructure Improvement Total: 208,855 \$51.31 \$10,715,327 78.41% \$6,235,892 \$1,904,042 \$3,998,680	159 160		1	1	1	\$75,000.00				sn.	\$814 986	\$0
62 Building Infrastructure Improvement Total: 20,855 \$5.1.31 \$10,715,327 78.41% \$6,225,892 \$1,904,042 \$3,998,680 \$1,904,042	161	TEGIMOLOGI GUBIOTAL					ψ1,117,732	0.1070	WULL, 312	90	ψ0 1 1 ,500	φυ
64 Permits, Testing & Printing: 2.50% Of Building & Site Budget \$257,533 1.88% \$157,107 \$44,554 \$87,552 \$100,000 <t< td=""><td>162</td><td></td><td>40.000</td><td>045 ""</td><td></td><td>\$51.31</td><td>\$10,715,327</td><td></td><td>\$6,235,892</td><td></td><td></td><td>\$0</td></t<>	162		40.000	045 ""		\$51.31	\$10,715,327		\$6,235,892			\$0
65 Construction Manager Fee and Costs: 8.00% Of Building & Site Budget \$844.708 6.18% \$515,311 \$146,137 \$287,169 \$160 Professional Fees & Costs: 8.00% Of Building & Site Budget & Contingency \$12,285 6.68% \$556,536 \$157,828 \$310,143 \$180 Professional Fees & Costs: \$13,666,336 100.00% \$8,36,143 \$2,414,577 \$5,001,913 \$180 Professional Fees & Costs: \$13,666,336 100.00% \$8,36,143 \$2,414,577 \$5,001,913 \$180 Professional Fees & Costs: \$13,666,336 100.00% \$18,366,143 \$18,414,577 \$18,416,17	163 164	Permits, Testing & Printing:		Of Building	& Site Budget		\$936,483 \$257,533		\$571,298 \$157,107		\$318,369 \$87,552	\$0 \$0
67 PROJECT TOTAL \$13,666,336 100.00% \$8,036,143 \$2,414,577 \$5,001,913 \$	165	Construction Manager Fee and Costs:	8.00%	Of Building	& Site Budget	0.0	\$844,708	6.18%	\$515,311	\$146,137	\$287,169	\$0
	166		8.00%	Ot Building	& Site Budget	& Contingency	,		, ,	,	, .	\$0
\$10,402,63.	167	PROJECT TOTAL					\$13,666,336	100.00%	\$8,036,143	\$2,414,577	\$5,001,913	
												φ10,402,030



Summary of Costs Pierce MS

	Middle School 13 s.f. 2-story Building 1939		Geogra	Cost Data ation Factor = aphic Factor = ation Factor =	1.00 1.00 1.04	(Medium) (US Median) Spring 2017		1.04	Cost Escal 1.22	ation Factors 1.37	1.04
									Ranked Ca	oital Priorities	
Line	Draft 1-29-18	Area Required	No. of Rms. / Units	Total Area	Base Unit	Effective Program Area	As % of Total	Critical Needs	Deferrable Maintenance	Property Enhancement	Other
No.	Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)	
1	1.0 SITE										
2											
3 4	Paving Replace Asphalt Parking Lot (62 spaces) 2003	43,920	1	43,920	\$3.50	\$159,869	1.26%		\$195,040		
5	2013 mill & Replaced entry/exit drives	43,320		43,320	ψ3.30	ψ109,009	1.20 /0		φ195,040		
6	Flag Pole Replacement (Rocket Enterprises)	1	1	1	\$8,500.00	\$8,840	2.44%	\$8,840			
7 8											
9	SITE SUBTOTAL					\$168,709	1.33%	\$8,840	\$195,040	\$0	\$0
10 11	2.0 BUILDING ENVELOPE										
12	Replace Building Masonry	1	1	1	\$75,000.00	\$78,000	0.62%	\$78,000			
13 14	Roofing Work - J.D. Candler Report Replace Roof (BUR, installed 1987, grade C)	32,709	1	32,709	\$8.00	\$272,139	2.15%		\$332,009		
15	Replace Roof BUR, installed 1998, grade C)	6,930	1	6,930	\$8.00	\$57,658	0.46%		\$70,342		
16	Replace Roof BUR, installed 1998, grade C)	4,821	1	4,821	\$8.00	\$40,111	0.32%		\$48,935		
17 18	Replace Roof BUR, installed 1998, grade C) Replace Roof BUR, installed 1998, grade C)	4,388 2,254	1	4,388 2,254	\$8.00 \$8.00	\$36,508 \$18,753	0.29% 0.15%		\$44,540 \$22,879		
19	Replace Roof BUR, installed 1998, grade C)	185	1	185	\$8.00	\$1,539	0.01%		\$1,878		
20	Replace Roof BUR, installed 1998, grade C)	349	1	349	\$8.00	\$2,904	0.02%		\$3,542		
21 22	Replace Roof (BUR, installed 2005, grade C) Replace Roof (BUR, installed 2000, grade B)	9,103 705	1	9,103 705	\$8.00 \$0.00	\$75,737 \$0	0.60% 0.00%		\$92,399	\$0	
23	Replace Roof (BUR, installed 2000, grade B)	209	1	209	\$0.00	\$0	0.00%			\$0	
24	Replace Roof (BUR, installed 2000, grade B)	226	1	226	\$0.00	\$0	0.00%			\$0	
25 26	Replace Roof (BUR, installed 2005, grade C) Replace Roof (BUR, installed 2005, grade C)	8,272 111	1	8,272 111	\$8.00 \$8.00	\$68,823 \$924	0.54% 0.01%		\$83,964 \$1,127		
27	Replace Roof (BUR, installed 2005, grade C)	720	1	720	\$8.00	\$5,990	0.05%		\$7,308		
28	Replace Roof (BUR, installed 2005, grade B)	522	1	522	\$0.00	\$0	0.00%			\$0	
29 30	Patching / Curbs for new M/E Work	1	1	1	\$50,000.00	\$52,000	0.41%		\$63,440		
31	Doors										
32	Exterior Hollow Metal Doors / Frames / Hdw	1	28	28	\$2,500.00	\$72,800	0.58%	\$72,800			
33 34	BUILDING ENVELOPE SUBTOTAL					\$783,885	6.20%	\$150,800	\$772,364	\$0	\$0
35 36	3.0 INTERIOR/FINISHES										
37	3.0 INTERIOR/FINISHES										
38	Abatement (allow)	122,313	1	122,313	\$2.00	\$254,411	2.01%	\$254,411			
39 40	Replace Corridor Doors & HDW	87	1	87	\$1,750.00	\$158,340	1.25%	\$158,340			
41	Replace Interior Room Doors and Hdw Flooring	42	1	42	\$1,750.00	\$76,440	0.60%	\$76,440			
42	Media Center (CPT)	900	1	900	\$4.50	\$4,212	0.03%		\$5,139		
43	Band/Music Suite (CPT)	900	1	900	\$4.50	\$4,212	0.03%		\$5,139		
44 45	Offices (CPT) Auditorium (CPT)	1,800 3,200	1 1	1,800 3,200	\$4.50 \$4.50	\$8,424 \$14,976	0.07% 0.12%		\$10,277 \$18,271		
46	, ,								,		
47 48	Paint Areas Disturbed by Construction Ceilings	75,000	1	75,000	\$1.00	\$78,000	0.62%	\$78,000			
48	Install new 2x4 Corridor Ceilings	14,000	1	14,000	\$4.00	\$58,240	0.00%	\$58,240			
50	Replace Ceiling in Classrooms (currently 12x12)	750	21	15,750	\$4.00	\$65,520	0.00%	\$65,520			
51 52	Kitchen renovation	1	1	1	\$100,000.00	\$104,000	0.82%	\$104.000			
53	Serving line cold wells	2	1	2	\$100,000.00	\$104,000	0.82%	\$104,000			
54	Pass-thru refrig.	1	1	1	\$25,000.00	\$26,000	0.21%	\$26,000			
55 56	Toilet room renovations	8	1	8	\$80,000.00	\$665,600	5.26%	\$665,600			
57		0		3	ψ55,000.00	\$300,000	0.2070	ψ500,000			
58	Casework	400		400	6050.00	6404.000	0.000/		6400.000		
59 60	Replace classroom casework (lowers) 40 CR x 10'	400	1	400	\$250.00	\$104,000	0.82%		\$126,880		
61	INTERIOR/FINISHES SUBTOTAL					\$1,643,175	12.99%	\$1,507,351	\$165,705	\$0	\$0
	4.0 PLUMBING SYSTEMS										
64 65	Harizontal HW/CW Pining Poplessment (mains calls)	122 212	1	122 212	\$3.00	\$381.617	3.02%			\$522,815	
66	Horizontal HW/CW Piping Replacement (mains only) Sanitary & Storm Drain Replacement (mains only)	122,313 122,313	1	122,313 122,313	\$3.00 \$2.00	\$381,617 \$254,411	3.02% 2.01%			\$522,815 \$348,543	
67	Steam & Condensate Piping Replacement (allow)	122,313	1	122,313	\$1.00	\$127,206	1.01%			\$174,272	
68 69	Replace pool equipment, pumps, surge tank, drain system, p	1	1	1	\$390,000.00	\$405,600	3.21%	\$405,600			
70		1	'	1	φυσυ,000.00						
71	PLUMBING SYSTEMS SUBTOTAL					\$1,168,833	9.24%	\$405,600	\$0	\$1,045,629	\$0

Summary of Costs Pierce MS

	e Middle School 13 s.f. 2-story Building		Specific	Cost Data	1.00	(Medium)					
Built:	1939			aphic Factor = ation Factor =	1.00 1.04	(US Median) Spring 2017		1.04	Cost Esca 1.22	ation Factors 1.37	1.04
Line No.	Draft 1-29-18 Program Area	Area Required (in Sq. Ft.)	No. of Rms. / Units Required	Total Area (in Sq. Ft.)	Base Unit Cost (\$)	Effective Program Area Cost (\$)	As % of Total Cost	Critical Needs (1 - 3 years)	Deferrable Maintenance	Priorities Property Enhancement (7 - 10 years)	Other
72 73	5.0 HVAC SYSTEMS										
74 75 76 77 78	Heating - Classroom unit vents were replaced Steam Boilers (Weil Mclain, age, 20 yrs 1997) Replace Steam Heating System Valves Assoc. equip., comb. Air, emerg. Gas stops	3	1	3 1	\$190,000.00 \$80,000.00	\$592,800 \$83,200	4.69% 0.66%	\$592,800 \$83,200			
79 80 81 82	Replace AHU - Pool Replace AHU - Gym Replace Air Handlers (less gym & Pool)	1 1 110,000	1 1 1	1 1 110,000	\$350,000.00 \$100,000.00 \$15.00	\$364,000 \$104,000 \$1,716,000	2.88% 0.82% 13.57%	\$104,000 \$1,716,000		\$498,680	
83 84	Replace RTU's - second level	6	1	6	\$20,000.00	\$124,800	0.99%	\$124,800			
85 86 87 88	Ventilation Replace Kitchen Exhaust Fan (No ansul or make up air or potential other code update requirements)	1	1	1	\$30,000.00	\$31,200	4.39%		\$38,064		
89	Install new Exhaust system for pool room below boiler rn	1	1	1	\$50,000.00	\$52,000	0.41%	\$52,000			
90 91 92 93 94	Replace Domestic Hot Water Boiler Rayback (1995) 750,000 BTU	1	1	1	\$50,000.00	\$52,000	0.41%	\$52,000			
95 96 97 98	Temperature Controls (90% Medysis) Air and Water Balance Commissioning	1 122,313 122,313	1 1 1	1 122,313 122,313	\$20,000.00 \$0.25 \$0.25	\$20,800 \$31,801 \$31,801	0.16% 0.25% 0.25%	\$20,800 \$31,801 \$31,801			
99	HVAC SYSTEMS SUBTOTAL					\$3,204,403	25.33%	\$2,809,203	\$38,064	\$498,680	\$0
	6.0 ELECTRICAL SYSTEMS										
	Lighting Replace Lighting with LED's (change ballast) Replace Lighting with LED's fixtures (flour stem mtd) Replace Lighting with LED's fixtures (corridors) Replace Lighting with LED's fixtures (corridors) Replace exterior building lights Replace all emergency and exit lights Add Occupancy Sensors Add electrical upgrade for IT (classrooms) Building electrical upgrades	20 21 14,000 122,313 122,313 41 39 1	1 1 1 1 1 1	20 21 14,000 122,313 122,313 41 39	\$1,200.00 \$3,200.00 \$2.00 \$0.25 \$0.25 \$500.00 \$5,000.00	\$24,960 \$69,888 \$29,120 \$31,801 \$31,801 \$21,320 \$202,800 \$130,000	0.20% 0.55% 0.23% 0.25% 0.25% 0.17% 1.60% 1.03%	\$24,960 \$69,888 \$29,120 \$31,801 \$21,320 \$202,800 \$130,000			
110 111	ELECTRICAL SYSTEMS SUBTOTAL					\$541,691	4.28%	\$541,691	\$0	\$0	\$0
112 113 114 115	7.0 SECURITY (Wright & Hunter) Door Access System Surveillance System Secured Entry (Ehresman) SECURITY SYSTEMS SUBTOTAL	1 1 1	1 1 1	1 1 1	\$50,000.00 \$73,000.00 \$225,000.00	\$52,000 \$75,920 \$234,000 \$361,920	0.41% 0.60% 1.85% 2.86%	\$52,000 \$75,920 \$234,000 \$361,920	\$0	\$0	\$0
118 119 120 121	8.0 NOT USED										
122 123	OTHER SUBTOTAL					\$0	0.00%	\$0	\$0	\$0	\$0
	9.0 FURNITURE & EQUIPMENT Classroom furniture	1	1	1	\$125,000.00	\$130,000	1.03%			\$178,100	
131 132	FURNITURE & EQUIPMENT SUBTOTAL					\$130,000	1.03%	\$0	\$0	\$178,100	\$0
133	10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology	1	1	1	\$308,000.00	\$320,320	2.53%	\$320,320	φυ	¥170,100	φυ
135 136 137 138 139 140 141	Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1	\$414,000.00 \$750,000.00 \$350,000.00 \$105,600.00 \$75,000.00 \$80,000.00	\$430,560 \$780,000 \$364,000 \$109,824 \$78,000 \$83,200 \$2,165,904	3.40% 6.17% 2.88% 0.87% 0.62% 0.66% 17.12%	\$780,000 \$364,000 \$109,824 \$78,000 \$83,200 \$1,735,344	\$0	\$589,867 \$589,867	\$0
142 143 144 145 146 147	Building Infrastructure Improvement Total: Project Contingency: Permits, Testing & Printing: Construction Manager Fee and Costs: Professional Fees & Costs:	10.00% 2.50% 8.00% 8.00%	Of Building	122,313 g & Site Budget g & Site Budget g & Site Budget g & Site Budget		\$10,168,520 \$787,262 \$216,497 \$710,110	80.39% 6.22% 1.71% 5.61% 6.06%	\$7,520,749 \$578,540 \$159,099 \$521,843 \$563,591	\$1,171,173 \$117,117 \$32,207 \$105,640 \$114,091	\$2,312,277 \$154,431 \$42,469 \$139,297 \$150,440	\$0 \$0 \$0 \$0 \$0
	PROJECT TOTAL			, Daugei		\$12,649,307	100.00%	\$9,343,822	\$1,540,229	\$2,798,913	\$0
						•					\$13,682,964



Summary of Costs North HS

North	High School			Cost Data							
342,1	48 s.f. 3-story Building		Specific	ation Factor =	1.00	(Medium)					
Built:	1966			aphic Factor =	1.00	(US Median)			Cost Escala		
			Cost Escal	ation Factor =	1.04	Spring 2017		1.04	1.22	1.37	1.04
									Ranked Capi	ital Priorities	
		Area	No. ot Rms. /			Effective	As % of		Deferrable	Property	0.1
Line	Draft 1-29-18	Required	Units	Total Area	Base Unit	Program Area	Total	Critical Needs	Maintenance	Enhancement	Other
No.	Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)	
				(- 1 - 7	(,,	(,,		, ,,,,,,			
	1.0 SITE										
2	Daving (2006 staff lat, 2011 student lat)										
4	Paving (2006 staff lot, 2011 student lot) South Parking Lot - approx. 179 parking spaces	70,959	1	70,959	\$3.50	\$258,291	0.89%		\$315,115		
5	North Parking Lot - approx. 356 parking spaces	146,200	1	146,200	\$3.50	\$532,168	1.84%		\$649,245		
6	North Parking Lot Entry Drive	38,000	1	38,000	\$3.50	\$138,320	0.48%		\$168,750		
7	Replace Catch Basins North and South Lots	22	1	22	\$5,000.00	\$114,400	0.39%		\$139,568		
8	Athletic Fields										
10	Replace Football Field Turf	1	1	1	\$500,000.00	\$520,000	1.80%			\$712,400	
11	Resurface Running Track (remove asphalt)	1	1	1	\$250,000.00	\$260,000	0.90%	\$260,000		Ç. 12,700	
12	Replace Stadium Lights	1	1	1	\$100,000.00	\$104,000	0.36%		\$126,880		
13											
14 15											
16											
17											
18	SITE SUBTOTAL					\$1,927,179	6.65%	\$260,000	\$1,399,558	\$712,400	\$0
19	0.0 PHILL DING ENVELOPE										
20 21	2.0 BUILDING ENVELOPE										
22	Replace Building Masonry	1	1	1	\$100,000.00	\$104,000	0.36%	\$104,000			
23	Roofing Work - J.D. Candler Report				,,	, , ,, ,,		, , , , , , , , , , , , , , , , , , , ,			
24	Replace Roof (BUR, installed 1990, grade C)	15,898	1	15,898	\$8.00	\$132,271	0.46%		\$161,371		
25	Replace Roof (BUR, installed 1990, grade D)	7,499	1	7,499	\$8.00	\$62,392	0.22%	\$62,392			
26	Replace Roof (BUR, installed 1990, grade D)	5,750	1	5,750	\$8.00	\$47,840	0.17%	\$47,840			
27	Replace Roof (BUR, installed 1995, grade C)	12,116	1	12,116	\$8.00	\$100,805	0.35%		\$122,982		
28 29	Replace Roof (BUR, installed 1995, grade C) Replace Roof (BUR, installed 1995, grade C)	2,483 17,054	1	2,483 17,054	\$8.00 \$8.00	\$20,659 \$141,889	0.07% 0.49%		\$25,203 \$173,105		
30	Replace Roof (BUR, installed 1995, grade C) Replace Roof (BUR, installed 1996, grade D)	6,700	1	6,700	\$8.00	\$55,744	0.49%	\$55,744	\$173,105		
31	Replace Roof (BUR, installed 1996, grade D)	43,837	1	43,837	\$8.00	\$364,724	1.26%	\$364,724			
32	Replace Roof (BUR, installed 1996, grade C)	320	1	320	\$8.00	\$2,662	0.01%	, , , ,	\$3,248		
33	Replace Roof (BUR, installed 1999, grade C)	43,303	1	43,303	\$8.00	\$360,281	1.24%		\$439,543		
34	Replace Roof (BUR, installed 1999, grade C)	4,694	1	4,694	\$8.00	\$39,054	0.13%		\$47,646		
35 36	Replace Roof (BUR, installed 2001, grade C) Replace Roof (BUR, installed 2001, grade C)	6,112 2,048	1	6,112 2,048	\$8.00 \$8.00	\$50,852 \$17,039	0.18% 0.06%		\$62,039 \$20,788		
37	Replace Roof (BUR, installed 2001, grade C)	2,500	1	2,500	\$8.00	\$20,800	0.07%		\$25,376		
38	Replace Roof (BUR, installed 2001, grade B)	2,478	1	2,478	\$0.00	\$0	0.00%		7-0,010	\$0	
39	Replace Roof (BUR, installed 2003, grade C)	11,769	1	11,769	\$8.00	\$97,918	0.34%		\$119,460		
40	Replace Roof (BUR, installed 2003, grade B)	2,844	1	2,844	\$0.00	\$0	0.00%			\$0	
41 42	Replace Roof (BUR, installed 2003, grade C) Replace Roof (BUR, installed 2005, grade C)	4,307 1,696	1	4,307 1,696	\$8.00 \$8.00	\$35,834 \$14,111	0.12% 0.05%		\$43,718 \$17,215		
42	Replace Roof (BDPM, installed 2005, grade C) Replace Roof (EDPM, installed 2005, grade B)	11,348	1	1,090	\$8.00	\$14,111	0.05%		017,∠15	\$0	
44	Replace Roof (EDPM, installed 2005, grade B)	4,303	1	4,303	\$0.00	\$0	0.00%			\$0	
45	Replace Roof (EDPM, installed 2005, grade B)	4,108	1	4,108	\$0.00	\$0	0.00%			\$0	
46	Replace Roof (EDPM, installed 2005, grade C)	5,131	1	5,131	\$8.00	\$42,690	0.15%		\$52,082		
47 48	Replace Roof (EDPM, installed 2005, grade C) Replace Roof (EDPM, installed 2010, grade B)	2,685 1,640	1	2,685 1,640	\$8.00 \$0.00	\$22,339 \$0	0.08% 0.00%		\$27,254	\$0	
49	Replace Roof (EDPM, installed 2010, grade B)	3,885	1	3,885	\$0.00	\$0 \$0	0.00%			\$0 \$0	
50	Replace Roof (EDPM, installed 2013, grade A)	1,627	·	-,	72.50	70				+-	
51											
52 53	Patching / Curbs for new M/E Work	1	1	1	\$75,000.00	\$78,000	0.27%	\$78,000			
53 54	Exterior Walls (metal panels at area A North Lobby)	1,800	1	1,800	\$100.00	\$187,200	0.65%	\$187,200			
55	Exterior vvalio (metai panelo al alea A Noltii Lobby)	1,000	'	1,000	φ100.00	ψ101,200	0.00/0	ψ107,200			
56	Replace Windows										
57	Coopers square windows	11,200	1	11,200	\$75.00	\$873,600	3.02%	\$873,600			
58	Area A North Lobby storefront window replacement	2,000	1	2,000	\$75.00	\$156,000	0.54%	\$156,000			
59 60	Doors										
61	Exterior Hollow Metal Doors / Frames / Hardware	1	52	52	\$2,500.00	\$135,200	0.47%	\$135,200			l
62	Exterior Aluminum Doors / Frames / HDW at area B stairwe	7,200	1	7,200	\$75.00	\$561,600	1.94%	\$561,600			
63	DIM DIVID ENTER ORE OF THE					60 707 75	40.000/	60 000 000	64 644 665	**	
64	BUILDING ENVELOPE SUBTOTAL					\$3,725,505	12.86%	\$2,626,300	\$1,341,030	\$0	\$0



Summary of Costs North HS

342,1	th High School ,148 s.f. 3-story Building It: 1966		Geogra	Cost Data ation Factor = aphic Factor = ation Factor =	1.00 1.00 1.04	(Medium) (US Median) Spring 2017		1.04	Cost Escala 1.22	ition Factors 1.37	1.04
Line No.	Draft 1-29-18 Program Area	Area Required (in Sq. Ft.)	No. or Rms. / Units Required	Total Area (in Sq. Ft.)	Base Unit	Effective Program Area Cost (\$)	As % of Total Cost	Critical Needs	Ranked Cap Deferrable Maintenance (4 - 6 years)	Property Enhancement (7 - 10 years)	Other
65	•	(04. 1 1.)	Hoquilou	(041 : 1.)	σου (ψ)	300t (¥)		(i o jours)	(1,711 1,	(1,711 1,7	
67	3.0 INTERIOR/FINISHES										
68 69	Abatement (allow) Remove 3rd floor ACT Tile	342,148 30,000	1 1	342,148 30,000	\$1.00 \$3.00	\$355,834 \$93,600	0.00% 0.32%	\$355,834 \$93,600			
70 71	Remove 3rd floor ACT Ceiling Remove Spray on Asbest. At removed lockers	30,000 1	1 1	30,000 1	\$3.00 \$20,000.00	\$93,600 \$20,800	0.32% 0.07%	\$93,600 \$20,800			
72 73	• •	1									
74	PAC Elevator	1	1	1	\$900,000.00	\$936,000	3.23%	\$936,000			
75 76 77 78	Doors & Hardware Replace door hardware (locksets only)	500	1	500	\$500.00	\$260,000	0.90%	\$260,000			
79 80	Ceilings Replace Corridor and CR Ceilings (due to new MRP/IT worl	30,000	1	30,000	\$4.00	\$124,800	0.43%	\$124,800			
81	at 3rd floor	30,000	'	30,000	φ4.00	\$124,000	0.4376	\$124,000			
82 83											
84 85	Flooring Corridor and Classrooms 3rd floor	30,000	1	30,000	\$4.00	\$124,800	0.43%	\$124,800			
86	Comaci and Classicoms of the field	00,000		00,000	Ψ4.00	Ψ124,000	0.4070	Ψ124,000			
87 88	Paint Areas Disturbed by Construction	30,000	1	30,000	\$1.00	\$31,200	0.11%	\$31,200			
89 90	Toilet room renovations	6	1	6	\$80,000.00	\$499,200	1.72%	\$499,200			
91 92											
93											
94 95	Lockers Replace student corridor lockers 3rd Floor	1	300	300	\$175.00	\$54,600	0.19%		\$66,612		
96 97	Replace athletic lockers Replace gym lockers	1	80 80	80 80	\$175.00 \$175.00	\$14,560 \$14,560	0.05% 0.05%		\$17,763 \$17,763		
98		•						£404.000	\$11,100		
99 100	Replace Walk-in Freezer Replace Serving Lines in Cafeteria	1 1	1 1	1 1	\$100,000.00 \$50,000.00	\$104,000 \$52,000	0.36% 0.18%	\$104,000 \$52,000			
101 102											
103 104	INTERIOR/FINISHES SUBTOTAL					\$2,779,554	9.60%	\$2,695,834	\$102,138	\$0	\$0
105 106	4.0 PLUMBING SYSTEMS										
107 108											
109	Replace circulation pumps in each fan room	14	1	14	\$5,000.00	\$72,800	0.25%	\$72,800			
110 111	Replace 6" Back Flow Preventer	1	1	1	\$10,000.00	\$10,400	0.04%	\$10,400			
112 113	Horizontal HW/CW Piping Replacement (mains only) Sanitary & Storm Drain Replacement (mains only)	342,148 342,148	1 1	342,148 342,148	\$3.00 \$2.00	\$1,067,502 \$711,668	3.69% 2.46%			\$1,462,477 \$974,985	
114 115	Steam & Condensate Piping Replacement (allow)	342,148	1	342,148	\$1.00	\$355,834	1.23%			\$487,492	
116	Hot Water Boiler (2000)	1	1	1	\$50,000.00	\$52,000	0.18%		\$63,440		
117 118	Replace pool equipment	1	1	1	\$32,000.00	\$33,280	0.11%	\$33,280			
119 120											
121 122	PLUMBING SYSTEMS SUBTOTAL					\$2,303,484	7.95%	\$116,480	\$63,440	\$2,924,955	\$0
	5.0 HVAC SYSTEMS										
125	Heating	-		_	0050 000 00		4.000	0500.00			
126 127	Steam Boilers (2002 Johnson Low Pressure) Assoc. equip., comb. Air, emerg. Gas stops	2	1	2	\$250,000.00	\$520,000	1.80%	\$520,000			
128 129											
130 131	Install new steam traps	50	1	50	\$1,000.00	\$52,000	0.18%	\$52,000			
132	Replace Air Handlers (less Pool)	325,000	1	325,000	\$1,000.00	\$52,000 \$5,070,000	17.50%	\$52,000 \$5,070,000			
133 134	AHU Main Office, CR, (1968), Sci Bldg (2005), Heat ex (196	•									
135 136	AHU Pool (dehumid)	1	1	1	\$225,000.00	\$234,000	0.81%		\$285,480		
137	Air Conditioning -100%										
138 139	Air Conditioning -100% Replace Chiller (McQuay Centrifugal Chiller, 2002)	1	1	1	\$250,000.00	\$260,000	0.90%		\$317,200		
140 141	Replace Chiller Pumps (1968) Cooling Tower (Marlie, 2000)	1 1	1 1	1 1	\$20,000.00 \$50,000.00	\$20,800 \$52,000	0.07% 0.18%		\$25,376 \$63,440		
142 143	Air and Water Balance	342,148	1	342,148	\$0.25	\$88,958	0.31%	\$88,958	,		
144	Commissioning	342,148	1	342,148	\$0.25		0.31%	\$88,958			
145 146	Temperature Controls (50% of building Medysis)	175,000	1	175,000	\$2.50	\$455,000	1.57%	\$455,000			
147 148	HVAC SYSTEMS SUBTOTAL					\$6,841,717	23.62%	\$6,274,917	\$691,496	\$0	\$0
<u> </u>	,					, ,	,-	. , ,	, , •	7.7	7.5



Summary of Costs North HS

342,1	rth High School ,148 s.f. 3-story Building It: 1966		Specification Factor = Geographic Factor = Cost Escalation Factor =		1.00 1.00 1.04	(Medium) (US Median) Spring 2017		1.04	Cost Escala 1.22	tion Factors 1.37	1.04
Line	Draft 1-29-18	Area Required	No. or Rms. / Units	Total Area	Base Unit	Effective Program Area	As % of Total	Critical Needs	Ranked Cap Deferrable Maintenance	ital Priorities Property Enhancement	Other
No.	Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)	
	6.0 ELECTRICAL SYSTEMS Building electrical upgrades Power	1	1	1	\$175,000.00	\$182,000	0.63%	\$182,000			
153 154 155	Original Switch Gear Replace Existing Panels	0	4	0	\$50,000.00	\$0	0.00%	\$0			
160	Lighting Replace Lighting with LED's (New OS, Switching, etc.) Replace all emergency and exit lights Add electrical upgrade for IT (classrooms)	150,000 342,148 108	1 1 1	150,000 342,148 108	\$2.00 \$0.25 \$5,000.00	\$312,000 \$88,958 \$561,600	1.08% 0.31% 1.94%	\$312,000 \$88,958 \$561,600			
161 162	ELECTRICAL SYSTEMS SUBTOTAL					\$1,144,558	3.95%	\$1,144,558	\$0	\$0	\$0
165 166 167 168 169	7.0 SECURITY (Wright & Hunter) Door Access System Surveillance System Secured Entry (Ehresman) SECURITY SYSTEMS SUBTOTAL 8.0 NOT USED	1 1 1	1 1 1	1 1 1	\$100,000.00 \$237,000.00 \$10,000.00	\$104,000 \$246,480 \$10,400 \$360,880	0.36% 0.85% 0.04% 1.25%	\$104,000 \$246,480 \$10,400 \$360,880	\$0	\$0	\$0
171 172 173 174	OTHER SUBTOTAL					\$0	0.00%	\$0	\$0	\$0	\$0
175 176 177 178	9.0 FURNITURE & EQUIPMENT										
179 180	FURNITURE & EQUIPMENT SUBTOTAL					\$0	0.00%	\$0	\$0	\$0	\$0
183 184 185 186 187 188 189	10.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	\$770,000.00 \$1,082,000.00 \$900,000.00 \$500,000.00 \$264,000.00 \$100,000.00 \$102,500.00	\$800,800 \$1,125,280 \$936,000 \$520,000 \$274,560 \$104,000 \$106,600	2.76% 3.89% 3.23% 1.80% 0.95% 0.36% 0.37%	\$800,800 \$936,000 \$520,000 \$274,560 \$104,000 \$106,600		\$1,541,634	
190 191	TECHNOLOGY SUBTOTAL					\$3,867,240	13.35%	\$2,741,960	\$0	\$1,541,634	\$0
192 193 194 195 196 197	Building Infrastructure Improvement Total: Project Contingency: Permits, Testing & Printing: Construction Manager Fee and Costs: Professional Fees & Costs:	10.00% 2.50% 8.00% 8.00%	Of Building	342,148 g & Site Budge g & Site Budge g & Site Budge g & Site Budge	t	\$22,950,116 \$1,908,288 \$524,779 \$1,721,275 \$1,858,977	79.24% 6.59% 1.81% 5.94% 6.42%	\$16,220,929 \$1,347,897 \$370,672 \$1,215,803 \$1,313,067	\$3,597,663 \$359,766 \$98,936 \$324,509 \$350,470	\$5,178,988 \$363,735 \$100,027 \$328,089 \$354,337	\$0 \$0 \$0 \$0
198	PROJECT TOTAL					\$28,963,436	100.00%	\$20,468,368	\$4,731,344	\$6,325,177	\$0

Summary of Costs South HS

	n High School 91 s.f. 3-story Building 1927		Geog	Cost Data cation Factor = raphic Factor = alation Factor =	1.00 1.00 1.04	(Medium) (US Median) Spring 2017		1.04	Cost Escala 1.22	tion Factors 1.37	1.04
Line No.	Draft 1-29-18 Program Area	Area Required (in Sq. Ft.)	No. of Rms. / Units Required	Total Area (in Sq. Ft.)	Base Unit Cost (\$)	Effective Program Area Cost (\$)	As % of Total Cost	Critical Needs (1 - 3 years)	Ranked Capi Deferrable Maintenance (4 - 6 years)	tal Priorities Property Enhancement (7 - 10 years)	Other
1	1.0 SITE										
2 3 4 5 6 7 8	Paving Replace Asphalt Parking Lot "S Lot" (2010) Replace Asphalt Parking Lot "Staff Lot" (2009) Replace Asphalt Parking Lot "J Lot" (2003) Replace Asphalt Parking Lot "T Lot" (2004 + 1" cap 2013)	82,000 23,500 23,500 24,000	1 1 1	82,000 23,500 23,500 24,000	\$3.50 \$3.50 \$3.50	\$298,480 \$85,540 \$85,540 \$87,360	1.10% 0.32% 0.32% 0.32%	\$298,480 \$85,540 \$85,540 \$87,360			
9 10	Replace Exterior Concrete (Sidewalks, etc.) Replace Concrete Stairs and Railings	1	1 1	20,000 1	\$6.00 \$7,500.00	\$124,800 \$7,800	1.61% 0.10%	\$124,800 \$7,800			
11 12 13 14 15 16 17 18	Athletic Fields Replace Press box Replace track Replace Baseball Field Turf Flag Pole Replacement (Rocket Enterprises)	1 1 1	1 1 1	1 1 1 3	\$65,000.00 \$280,000.00 \$350,000.00 \$25,000.00	\$67,600 \$291,200 \$364,000 \$78,000	0.25% 1.07% 1.34% 0.29%	\$291,200 \$78,000		\$92,612 \$498,680	
19 20 21	(2) main, (1) athletic field	1	1	1	\$25,000.00	#26.000	0.000/	#26.000			
22 23	Fence Replacement SITE SUBTOTAL	'	'	'	\$25,000.00	\$26,000 \$1,516,320	0.00% 5.59%	\$26,000 \$1,084,720	\$0	\$591.292	\$0
24 25	2.0 BUILDING ENVELOPE					7 1,111,111		¥ 1,00 1,100	**	7111,222	,,,
26 27	Replace Building Masonry	1	1	1	\$100,000.00	\$104,000	2.76%	\$104,000			
28 29 30 31	Roofing Work - J.D. Candler Report Replace Roof (Type BUR/shingles, installed 1996, grade C) S build'g Replace Roof (Type Modified, installed 2000, grade F) Replace Roof (Type Modified, installed 2000, grade D)	40,426 5,199 2,829	1 1 1	40,426 5,199 2,829	\$8.00 \$8.00 \$8.00	\$336,344 \$43,256 \$23,537	8.94% 1.15% 0.63%	\$336,344 \$43,256 \$23,537			
32 33	Replace Roof (Type BUR, shingles, installed 2005, grade C)	9,837	1	9,837	\$8.00	\$81,844	2.18%		\$99,849		
34 35 36 37 38 39 40 41	Replace Roof (Type BUR, installed 1998, grade C) Replace Roof (Type BUR, installed 1998, grade C) Replace Roof (Type BUR, installed 1998, grade C) Replace Roof (Type BUR, installed 2008, grade B) Pool Replace Roof (Type BUR, installed 2008, grade B) Replace Roof (Type BUR, installed 2008, grade B) Patching / Curbs for new M/E Work	3,973 5,651 32,535 20,710 8,376 100	1 1 1 1 1 1	3,973 5,651 32,535 20,710 8,376 100	\$8.00 \$8.00 \$8.00 \$0.00 \$0.00 \$75,000.00	\$33,055 \$47,016 \$270,691 \$0 \$0 \$0 \$78,000	0.88% 1.25% 7.20% 0.00% 0.00% 0.00% 0.29%	\$78,000	\$40,328 \$57,360 \$330,243	\$0 \$0 \$0	
42 43	Doors Exterior Aluminum Doors / Frames / Hardware	2	1	2	\$3,500.00	\$7,280	0.03%	\$7,280			
44 45	BUILDING ENVELOPE SUBTOTAL	-	·	_	ψο,σσσ.σσ	\$1,025,024	3.78%	\$592,417	\$527,780	\$0	\$0
46 47	3.0 INTERIOR/FINISHES										
	Abatement	436,691	1	436,691	\$2.00	\$908,317	3.35%	\$908,317			
50 51 52 53	Replace kitchen walk-in coolers (1928) Replace reach-thru coolers (1970)	2 2	1	2 2	\$100,000.00 \$50,000.00	\$208,000 \$104,000	0.77% 0.38%	\$208,000 \$104,000			
54 55	Toilet room renovations (IA Building) Doors & Hardware	6	1	6	\$80,000.00	\$499,200	1.84%	\$499,200			
56 57	Replace door/hardware	60	1	60	\$1,750.00	\$109,200	0.40%	\$109,200			
58 59 60	Ceilings Replace Ceiling in Classrooms	40,000	1	40,000	\$4.00	\$166,400	0.61%	\$166,400			
61 62	Flooring Pool Deck Gutter work	480	1	480	\$45.00	\$22,464	0.08%	\$22,464			
63 64	Paint Areas Disturbed by Construction	1	1	1	\$18,000.00	\$18,720	0.07%	\$18,720			
65 66 67 68 69	Visual Display Boards Replace marker boards Replace tack boards	28 56	1	28 56	\$1,500.00 \$500.00	\$43,680 \$29,120	0.16% 0.11%			\$59,842 \$39,894	
70 71	Gym Equipment Replace Scoreboard Refurbish elevator (\$50K + \$20K/stop) INTERIOR/FINISHES SUBTOTAL	1	1	1	\$35,000.00 \$70,000.00	\$36,400 \$72,800 \$2,218,301	0.13% 0.27% 8.18%	\$72,800 \$2,109,101	\$0	\$49,868 \$149,604	\$0



36,69	th High School 691 s.f. 3-story Building t: 1927		Geogr	Cost Data cation Factor = caphic Factor = lation Factor =	1.00 1.00 1.04	(Medium) (US Median) Spring 2017		1.04	Cost Escalat	tion Factors 1.37	1.04
ine No.	Draft 1-29-18 Program Area	Area Required (in Sq. Ft.)	No. of Rms. / Units Required	Total Area (in Sq. Ft.)	Base Unit Cost (\$)	Effective Program Area Cost (\$)	As % of Total Cost	Critical Needs (1 - 3 years)	Ranked Capi Deferrable Maintenance (4 - 6 years)	tal Priorities Property Enhancement (7 - 10 years)	Other
	Deptimbing Systems Horizontal HW/CW Piping Replacement (mains only) Sanitary & Storm Drain Replacement (mains only) Steam & Condensate Piping Replacement (allow) Replace and add domestic water valves and fittings (allow) Main building cast iron roof conductor replacement	436,691 436,691 436,691 436,691	1 1 1 1	436,691 436,691 436,691 436,691	\$3.00 \$2.00 \$1.00 \$1.00 \$400,000.00	\$1,362,476 \$908,317 \$454,159 \$454,159 \$416,000	5.02% 3.35% 1.67% 1.67% 1.53%	\$416,000		\$1,866,592 \$1,244,395 \$622,197 \$622,197	
83 84 85 86 87 88	Hot water Boiler at Athletic complex - new Hot water Boiler at Main building (Lochinvar) Replace Boiler pumps Install separate stack for H2O boiler (shares w/ main boilers)	2 2 1	1 1 1	2 2 1	\$50,000.00 \$15,000.00 \$30,000.00	\$104,000 \$31,200 \$31,200	0.38% 0.11% 0.11%	\$104,000 \$31,200 \$31,200			
89 90	PLUMBING SYSTEMS SUBTOTAL					\$3,761,510	13.86%	\$582,400	\$0	\$4,355,381	\$
91 92 93 94 95 96 97 98 99	6.0 HVAC SYSTEMS Heating Steam Boilers (age ?) - Replace with Hydronic System Currently open tunnels for airways Gym AHU (1954) Library AHU (1964) Varsity Girls/Boys AHU Music Room AHU (1964)	1	1	1	\$500,000.00	\$520,000	1.92%	\$520,000			
00 01 02 03	Install new Hydronic system Assoc. equip., comb. Air, emerg. Gas stops, piping	325,000	1	325,000	\$20.00	\$6,760,000	0.00%	\$6,760,000			
04 05 06	Air and Water Balance Commissioning	436,691 436,691	1	436,691 436,691	\$0.25 \$0.25	\$113,540 \$113,540	0.42% 0.42%	\$113,540 \$113,540			
07 08	Temperature Controls (80% Medysis)	90,000	1	90,000	\$2.50	\$234,000	0.86%	\$234,000			
09 10	HVAC SYSTEMS SUBTOTAL					\$7,741,079	28.53%	\$7,741,079	\$0	\$0	\$
	S.O ELECTRICAL SYSTEMS	1	1	1	\$175,000.00	\$182,000	0.67%	\$182,000			
14 15	Suilding electrical upgrades Power New MDF, Distribution Panels, Outlets	60,000	1	60,000	\$173,000.00	\$312,000	1.15%	\$182,000			
16 17 18 19 20	Lighting Replace Lighting with LED's (Classrooms & Corridors) Replace all emergency and exit lights Add electrical upgrade for IT (classrooms)	70,000 436,691 96	1 1 1	70,000 436,691 96	\$4.50 \$0.25 \$5,000.00	\$327,600 \$113,540 \$499,200	1.21% 0.42% 1.84%	\$327,600 \$113,540 \$499,200			
22 23	ELECTRICAL SYSTEMS SUBTOTAL					\$1,434,340	5.29%	\$1,434,340	\$0	\$0	\$
26 27 28 \$	2.0 SECURITY (Wright & Hunter) Door Access System Surveillance System Secured Entry (Ehresman)	1 1 1	1 1 1	1 1 1	\$125,000.00 \$270,000.00 \$425,000.00	\$130,000 \$280,800 \$442,000	1.68% 3.63% 5.71%	\$130,000 \$280,800 \$442,000			
30	SECURITY SYSTEMS SUBTOTAL					\$852,800	3.14%	\$852,800	\$0	\$0	\$
31 32 33	8.0 NOT USED										
34 35	OTHER SUBTOTAL					\$0	0.00%	\$0	\$0	\$0	\$
36 37 38	0.0 FURNITURE & EQUIPMENT										
39 40 _	FURNITURE & EQUIPMENT SUBTOTAL					\$0	0.00%	\$0	\$0	\$0	ş
	0.0 TECHNOLOGY (Wright & Hunter)										
43 44 45 46 47 48 49 50	Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1	\$770,000.00 \$1,063,000.00 \$75,000.00 \$260,000.00 \$264,000.00 \$100,000.00 \$102,500.00	\$800,800 \$1,105,520 \$78,000 \$270,400 \$274,560 \$104,000 \$106,600	10.34% 14.28% 1.01% 3.49% 3.55% 1.34% 1.38%	\$800,800 \$78,000 \$270,400 \$274,560 \$104,000 \$106,600		\$1,514,562	
51 52	TECHNOLOGY SUBTOTAL					\$2,739,880	10.10%	\$1,634,360	\$0	\$1,514,562	
53 54 55 56	Building Infrastructure Improvement Total: Project Contingency: Permits, Testing & Printing: Construction Manager Fee and Costs: Professional Fees & Costs:	10.00% 2.50% 8.00% 8.00%	Of Building	436,691 § & Site Budget § & Site Budget § & Site Budget § & Site Budget	\$48.75	\$21,289,255 \$1,854,937 \$510,108 \$1,673,154 \$1,807,006	78.46% 6.84% 1.88% 6.17% 6.66%	\$16,031,218 \$1,439,686 \$395,914 \$1,298,597 \$1,402,484	\$527,780 \$52,778 \$14,514 \$47,606 \$51,414	\$6,610,840 \$509,628 \$140,148 \$459,684 \$496,459	\$ \$ \$ \$
157											



Summary of Costs Barnes Pre-K

	s Early Childhood Center s.f 2-story Building 1955		Geogr	Cost Data cation Factor = aphic Factor = lation Factor =	1.00 1.00 1.04	(Medium) (US Median) Spring 2017		1.04	Cost Escal 1.22	lation Factors 1.37	1.04
			No. ot			⊨πective				oital Priorities	
Line	Draft 1-29-18	Area Required	Rms. / Units	Total Area	Base Unit	Program Area	As % of Total	Critical Needs	Deferrable Maintenance	Property Enhancement	Other
No.	Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)	
1 .	. <u>0 SITE</u>										
2											
3 4 5 6	Paving Replace Asphalt Parking Lot (79 spaces) Under cut sub base due to bad soils	66,591 66,591	1	66,591 66,591	\$3.50 \$1.00	\$242,391 \$69,255	4.69% 1.34%	\$242,391 \$69,255			
7	Concrete sidewalks	1	1	1,000	\$6.00	\$6,240	0.12%	\$6,240			
8	Flor Dala Danisasment (Danist Entermises)	4	1	4	£4 E00 00	£4.600	0.000/	64.600			
9 10	Flag Pole Replacement (Rocket Enterprises)	1	1	1	\$4,500.00	\$4,680	0.09%	\$4,680			
11 12	SITE SUBTOTAL					\$322,566	6.24%	\$322,566	\$0	\$0	\$0
13						, , , , , , , , , , , , , , , , , , , ,		, , , , , , , , , , , , , , , , , , , ,		•	
14 <u>2</u> 15	2.0 BUILDING ENVELOPE Replace Building Masonry	1	1	1	\$50,000.00	\$52,000	1.01%	\$52,000			
16	Roofing Work - J.D. Candler Report										
17	Replace Roof (BUR, installed 1985, Grade F)	422 5,142	1	422 5,142	\$8.00 \$8.00		0.07% 0.83%	\$3,511	¢E2 102		
18 19	Replace Roof (BUR, installed 1989, Grade C) Replace Roof (BUR, installed 1990, Grade C)	11,448	1	11,448	\$8.00	\$42,781 \$95,247	1.84%		\$52,193 \$116,202		
20	Replace Roof (BUR, installed 1990, Grade D)	15,499	1	15,499	\$8.00		2.49%	\$128,952	ψσ,2σ2		
21	Replace Roof (BUR, installed 1998, Grade D)	176	1	176	\$8.00	\$1,464	0.03%	\$1,464			
22	Replace Roof (BUR, installed 1998, Grade D)	1,143	1	1,143	\$8.00		0.18%	\$9,510			
23	Patching / Curbs for new M/E Work	1	1	1	\$25,000.00	\$26,000	0.50%	\$26,000			
24 25	Entry Storefront	1	1	1	\$40,000.00	\$41,600	0.80%	\$41,600			
26										•	•
27 28	BUILDING ENVELOPE SUBTOTAL					\$401,066	7.76%	\$263,037	\$168,395	\$0	\$0
29	3.0 INTERIOR/FINISHES										
30 31	Abatement (allow)	49,445	1	49,445	\$2.00	\$102,846	1.99%	\$102,846			
32	Corridor doors and hardware	52	1	49,443 52	\$1,750.00		1.83%	\$102,640			
33	Interior room doors and hardware	16	1	16	\$1,750.00		0.56%	\$29,120			
34	Remodel Main First Floor Offices	1,800	1	1,800	\$100.00	\$187,200	3.62%			\$256,464	
35	Classrooms (Carpet)	750	2	1,500	\$4.50	\$7,020	0.14%	\$7,020			
36 37	Classrooms (VCT) Toilet room renovations	750 4	18 1	13,500 4	\$4.50 \$80,000.00	\$63,180	1.22% 6.44%	\$63,180 \$332,800			
38	Paint Areas Disturbed by Construction	25,000	1	25,000	\$60,000.00	\$332,800 \$26,000	0.50%	\$26,000			
39	Casework	20,000		20,000	Ψ1.00	Ψ20,000	0.0070	Ψ20,000			
40	Replace classroom casework	4	1	4	\$8,000.00	\$33,280	0.64%	\$33,280			
41 42	INTERIOR/FINISHES SUBTOTAL					\$876,086	16.94%	\$688,886	\$0	\$256,464	\$0
	I.O PLUMBING SYSTEMS					7111,000		*****	**	,,	*-
44	Horizontal HW/CW Piping Replacement (mains only)	49,445	1	49,445	\$3.00	\$154,268	2.98%			\$211,348	
45 46	Sanitary & Storm Drain Replacement (mains only)	49,445 49,445	1 1	49,445 49,445	\$2.00 \$1.00		1.99% 0.99%			\$140,898 \$70,449	
47	Steam & Condensate Piping Replacement (allow) Replace and add domestic water valves and fittings (allow)	49,445	1	49,445	\$1.00	\$51,423	0.99%			\$70,449 \$70,449	
48	3 . (,									,	
49 50	Replace Domestic Hot Water Tank - 40 gal PLUMBING SYSTEMS SUBTOTAL	1	1	1	\$5,000.00	\$5,200 \$365,160	0.10% 7.06%	\$5,200 \$5,200	\$0	\$493,145	\$0
51 52	5.0 HVAC SYSTEMS					·					
53	OU HVAC STSTEMS										
54	Heating	_		_	#40F 000 CT	0000 000	F 600/		#04 7 005		
55 56	Steam Boilers (Age 18 yrs, Weil McLien 1999) Assoc. equip., comb. Air, emerg. Gas stops	2	1	2	\$125,000.00	\$260,000	5.03%		\$317,200		
57	Install New Unit Ventilators on 2nd floor (1st floor are new)	10	1	10	\$20,000.00	\$208,000	4.02%	\$208,000			
58	,										
59	Air conditioning, 1009/ A/C										
60 61	Air conditioning 100% A/C Replace RTU's (1997)	12	1	12	\$10,000.00	\$124,800	2.41%	\$124,800			
62		12			Ψ.5,000.00	ψ.24,000		\$. <u>_</u> -1,000			
63	Ventilation										
64	Replace Kitchen Exhaust Fan (No ansul or make up air	1	1	1	\$30,000.00	\$31,200	0.00%		\$38,064		
65	or potential other code update requirements)	46 445		40 445	20:-	AF 445	0.400/	05.445			
66 67	Air and Water Balance Commissioning	49,445 49,445	1	49,445 49,445	\$0.10 \$0.15		0.10% 0.15%	\$5,142 \$7,713			
68	Commissioning	+5,440	1	+5, 44 5	φυ. 15	φι,ι ιδ	0.1370	φι,ιιδ			
69	Temperature Controls (50% of building Medysis)	25,000	1	25,000	\$2.50	\$65,000	1.26%	\$65,000			
70 71	HVAC SYSTEMS SUBTOTAL					\$701,856	13.57%	\$410,656	\$355,264	\$0	\$0
<i>'</i> '	HVAC STSTEMS SUBTUTAL					φιυ1,000	13.37 70	ψ≒10,000	ψυυυ,204	φu	φU



Summary of Costs Barnes Pre-K

	Early Childhood Center s.f 2-story Building		Specific	Cost Data cation Factor =	1.00	(Medium)					
t: 1	955		Geogr	aphic Factor =	1.00	(US Median)			Cost Escal	ation Factors	
			Cost Esca	lation Factor =	1.04	Spring 2017		1.04	1.22	1.37	1.04
									Ranked Car	oital Priorities	
			No. of			Effective		Critical	Deferrable	Property	
•	Draft 1-29-18	Area Required	Rms. / Units	Total Area	Base Unit	Program Area	As % of Total	Needs		Enhancement	Oth
	Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)	
	•	` ' '			\.' <i>\</i>	\·/		,			
<u>6.</u>	.0 ELECTRICAL SYSTEMS Lighting										
	Replace Lighting with LED's (change ballast)	22	1	22	\$1,200.00	\$27,456	0.53%	\$27,456			
					* 1,=22122	+ =-,					
	Replace exterior building lights	49,445	1	49,445	\$0.25	\$12,856	0.25%	\$12,856			
	Replace all emergency and exit lights	49,445	1	49,445	\$0.25	\$12,856	0.25%	\$12,856			
٨	Add Occupancy Sensors dd electrical upgrade for IT (classrooms)	20 20	1 1	20 20	\$500.00 \$5,000.00	\$10,400 \$104,000	0.20% 2.01%	\$10,400 \$104,000			
	uilding electrical upgrades	1	1	1	\$75,000.00	\$78,000	1.51%	\$78,000			
٠					ψ10,000.00						
_	ELECTRICAL SYSTEMS SUBTOTAL					\$245,567	4.75%	\$245,567	\$0	\$0	
<u>7.</u>	.0 SECURITY (Wright & Hunter)										
	Door Access System	1	1	1	\$25,000.00	\$26,000	0.50%	\$26,000			
	Surveillance System	1	1	1 1	\$40,000.00	\$41,600	0.80%	\$41,600 \$260,000			
5	ecured Entry (Ehresman) SECURITY SYSTEMS SUBTOTAL	1	1	1	\$250,000.00	\$260,000 \$327,600	5.03% 6.34%	\$260,000 \$327,600	\$0	\$0	
_	A NOT LIGED										
<u>o.</u>	.0 NOT USED OTHER SUBTOTAL					\$0	0.00%	\$0	\$0	\$0	
	.0 FURNITURE & EQUIPMENT										
a	OT ORNITORE & EQUITMENT			1	\$100,000.00	\$104,000	2.01%			\$142,480	
	Classroom furniture	1	1								
	Classroom furniture	1	1	'	ψ100,000.00	, . ,				. ,	
	Classroom furniture FURNITURE & EQUIPMENT SUBTOTAL	1	1	,	\$100,000.00	\$104,000	2.01%	\$0	\$0	\$142,480	
	FURNITURE & EQUIPMENT SUBTOTAL	1	1		\$100,000.00		2.01%	\$0	\$0		
10	FURNITURE & EQUIPMENT SUBTOTAL	1	1	1		\$104,000			\$0		
10	FURNITURE & EQUIPMENT SUBTOTAL			· 	\$112,000.00 \$140,000.00		2.01% 2.25% 2.82%	\$0 \$116,480	\$0		
10	FURNITURE & EQUIPMENT SUBTOTAL 0.0 TECHNOLOGY (Wright & Hunter) Instructional Technology	1	1	1	\$112,000.00	\$104,000 \$116,480	2.25%		\$0	\$142,480	
10	FURNITURE & EQUIPMENT SUBTOTAL 0.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets)	1 1	1 1	1 1	\$112,000.00 \$140,000.00	\$104,000 \$116,480 \$145,600	2.25% 2.82%	\$116,480	\$0	\$142,480	
10	FURNITURE & EQUIPMENT SUBTOTAL 0.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System	1 1 1 1	1 1 1 1	1 1 1 1 1	\$112,000.00 \$140,000.00 \$200,000.00 \$220,000.00 \$38,400.00	\$104,000 \$116,480 \$145,600 \$208,000 \$228,800 \$39,936	2.25% 2.82% 4.02% 4.42% 0.77%	\$116,480 \$208,000 \$228,800 \$39,936	\$0	\$142,480	
11	FURNITURE & EQUIPMENT SUBTOTAL 0.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1 1	\$112,000.00 \$140,000.00 \$200,000.00 \$220,000.00 \$38,400.00 \$25,000.00	\$104,000 \$116,480 \$145,600 \$208,000 \$228,800 \$39,936 \$26,000	2.25% 2.82% 4.02% 4.42% 0.77% 0.50%	\$116,480 \$208,000 \$228,800 \$39,936 \$26,000	\$0	\$142,480	
11	FURNITURE & EQUIPMENT SUBTOTAL 0.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System	1 1 1 1	1 1 1 1	1 1 1 1 1	\$112,000.00 \$140,000.00 \$200,000.00 \$220,000.00 \$38,400.00	\$104,000 \$116,480 \$145,600 \$208,000 \$228,800 \$39,936	2.25% 2.82% 4.02% 4.42% 0.77%	\$116,480 \$208,000 \$228,800 \$39,936	\$0	\$142,480	
10	FURNITURE & EQUIPMENT SUBTOTAL 0.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1 1	\$112,000.00 \$140,000.00 \$200,000.00 \$220,000.00 \$38,400.00 \$25,000.00	\$104,000 \$116,480 \$145,600 \$208,000 \$228,800 \$39,936 \$26,000	2.25% 2.82% 4.02% 4.42% 0.77% 0.50%	\$116,480 \$208,000 \$228,800 \$39,936 \$26,000	\$0 \$0	\$142,480	
11	FURNITURE & EQUIPMENT SUBTOTAL 0.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL	1 1 1 1 1	1 1 1 1 1	1 1 1 1 1 1	\$112,000.00 \$140,000.00 \$200,000.00 \$220,000.00 \$38,400.00 \$25,000.00 \$40,000.00	\$104,000 \$116,480 \$145,600 \$208,000 \$228,800 \$39,936 \$26,000 \$41,600 \$806,416	2.25% 2.82% 4.02% 4.42% 0.77% 0.50% 0.80%	\$116,480 \$208,000 \$228,800 \$39,936 \$26,000 \$41,600 \$660,816	\$0	\$142,480 \$199,472 \$199,472	
10	FURNITURE & EQUIPMENT SUBTOTAL 0.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL Building Infrastructure Improvement Total:	1 1 1 1 1 1	1 1 1 1 1 1	1 1 1 1 1 1 1	\$112,000.00 \$140,000.00 \$200,000.00 \$220,000.00 \$38,400.00 \$25,000.00	\$104,000 \$116,480 \$145,600 \$208,000 \$228,800 \$39,936 \$26,000 \$41,600 \$806,416	2.25% 2.82% 4.02% 4.42% 0.77% 0.50% 0.80% 15.59%	\$116,480 \$208,000 \$228,800 \$39,936 \$26,000 \$41,600 \$660,816 \$2,924,327	\$0 \$523,659	\$142,480 \$199,472 \$199,472 \$1,091,561	
10	FURNITURE & EQUIPMENT SUBTOTAL 0.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL	1 1 1 1 1	1 1 1 1 1 1 1 0	1 1 1 1 1 1	\$112,000.00 \$140,000.00 \$200,000.00 \$220,000.00 \$38,400.00 \$25,000.00 \$40,000.00	\$104,000 \$116,480 \$145,600 \$208,000 \$228,800 \$39,936 \$26,000 \$41,600 \$806,416	2.25% 2.82% 4.02% 4.42% 0.77% 0.50% 0.80%	\$116,480 \$208,000 \$228,800 \$39,936 \$26,000 \$41,600 \$660,816	\$0	\$142,480 \$199,472 \$199,472	
10	FURNITURE & EQUIPMENT SUBTOTAL 0.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL Building Infrastructure Improvement Total: Project Contingency:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 Of Buildin	1 1 1 1 1 1 1 1 49,445 g & Site Budget	\$112,000.00 \$140,000.00 \$200,000.00 \$220,000.00 \$38,400.00 \$25,000.00 \$40,000.00	\$104,000 \$116,480 \$145,600 \$208,000 \$228,800 \$39,936 \$6,000 \$41,600 \$806,416 \$4,150,316 \$323,990	2.25% 2.82% 4.02% 4.42% 0.77% 0.50% 0.80% 15.59% 80.26% 6.27%	\$116,480 \$208,000 \$228,800 \$39,936 \$26,000 \$41,600 \$660,816 \$2,924,327 \$226,351	\$0 \$523,659 \$52,366	\$142,480 \$199,472 \$199,472 \$1,091,561 \$74,961	
10	FURNITURE & EQUIPMENT SUBTOTAL 0.0 TECHNOLOGY (Wright & Hunter) Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems Fiber WAN TECHNOLOGY SUBTOTAL Building Infrastructure Improvement Total: Project Contingency: Permits, Testing & Printing:	1 1 1 1 1 1 1 1 1 1 1 2 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 Of Buildin Of Buildin	1 1 1 1 1 1 1 1 49,445 g & Site Budget g & Site Budget	\$112,000.00 \$140,000.00 \$200,000.00 \$220,000.00 \$38,400.00 \$25,000.00 \$40,000.00	\$104,000 \$116,480 \$145,600 \$208,000 \$228,800 \$39,936 \$26,000 \$41,600 \$806,416 \$4,150,316 \$323,990 \$89,097	2.25% 2.82% 4.02% 4.42% 0.77% 0.50% 0.80% 15.59% 80.26% 6.27% 1.72%	\$116,480 \$208,000 \$228,800 \$39,936 \$26,000 \$41,600 \$660,816 \$2,924,327 \$226,351 \$62,247	\$0 \$523,659 \$52,366 \$14,401	\$142,480 \$199,472 \$199,472 \$1,091,561 \$74,961 \$20,614	



Summary of Costs Admin

Admi	nistration			Cost Data							
23,10	3 s.f. 2-story Building			cation Factor =	1.00	(Medium)					
Built:	1906, Additions 1915, 2006		J	aphic Factor =	1.00	(US Median)				lation Factors	
			Cost Esca	lation Factor =	1.04	Spring 2017		1.04	1.22	1.37	1.04
									Ranked Car	oital Priorities	
			No. of			Effective		0	•		
	D==# 4 00 40	Area	Rms. /			Program	As % of	Critical Needs	Deferrable Maintenance	Property Enhancement	Other
Line	Draft 1-29-18	Required	Units	Total Area	Base Unit	Area	Total				
No.	Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)	
1	1.0 SITE										
2	1.0 OH E										
3	Paving										
4	Replace Asphalt Parking Lot (60 spaces)	31,975	1	31,975	\$3.50	\$116,389	7.20%	\$116,389			
5 6	Flag Pole Replacement (Rocket Enterprises) Replace Exterior Concrete (Apron at storage bldg)	1 1,300	1	1 1,300	\$7,000.00 \$6.00	\$7,280 \$8,112	0.45% 0.50%	\$7,280 \$8,112			
7	Tropiado Exterior Condicto (Apron at diorage blag)	1,000		1,000	ψ0.00	ψ0,112	0.0070	ψ0,112			
8	SITE SUBTOTAL					\$131,781	8.16%	\$131,781	\$0	\$0	\$0
9	O O DUIU DINO FAIVELORE										
10 11	2.0 BUILDING ENVELOPE										
12	Replace Building Masonry	1	1	1	\$50,000.00	\$52,000	3.22%	\$52,000			
13	Roofing Work - J.D. Candler Report										
14	Replace Roof (EDPM, installed 2004, Grade C)	96	1	96	\$8.00		0.05%		\$974		
15 16	Replace Roof (BUR, installed 2005, Grade C) Replace Roof (St Seam Mtl, installed 2005, Grade B)	1,059 315	1	1,059 315	\$8.00 \$0.00	\$8,811 \$0	0.55% 0.00%		\$10,749	\$0	
17	Replace Roof (BUR, installed 2010, Grade B)	5,720	1	5,720	\$0.00		0.00%			\$0 \$0	
18	Replace Roof (Shingles, installed 2010, Grade B)	2,962	1	2,962	\$0.00		0.00%			\$0	
19	Replace Roof (BUR, installed ?, Grade ?)	1,093	1	1,093	\$0.00	\$0	0.00%			\$0	
20											
21 22	BUILDING ENVELOPE SUBTOTAL					\$61,610	3.81%	\$52,000	\$11,724	\$0	\$0
23						****		, , , , , , , , , , , , , , , , , , ,	* · · · · · ·	**	
	3.0 INTERIOR/FINISHES										
25	Danie 9 Handurana										
26 27	Doors & Hardware Replace Basement Mech. Rm Doors	2	1	2	\$1,750.00	\$3,640	0.23%	\$3,640			
28	replace Basement West. 14th Bools	-		-	ψ1,700.00	ψ0,040	0.2070	ψ0,040			
29	Flooring										
30	Office Carpet	12,500	1	12,500	\$4.00	\$52,000	3.22%		\$63,440		
31 32	Paint Areas Disturbed by Construction	17,500	1	17,500	\$1.00	\$18,200	1.13%		\$22,204		
33		,	·	,	*****	***,=**					
34	INTERIOR/FINISHES SUBTOTAL					\$73,840	4.57%	\$3,640	\$85,644	\$0	\$0
35 36	4.0 PLUMBING SYSTEMS										
37	4.01 Edmbird OTOTEMO										
38	Replace hot water heater	1	1	1	\$5,000.00	\$5,200	0.32%		\$6,344		
39	Horizontal HW/CW Piping Replacement (mains only)	23,103	1	23,103	\$3.00	\$72,081	4.46%			\$98,751	
40	Sanitary & Storm Drain Replacement (mains only)	23,103	1	23,103	\$2.00	\$48,054	2.97%			\$65,834	
41 42	Replace and add domestic water valves and fittings (allow)	1	1	1	\$50,000.00	\$52,000	3.22%			\$71,240	
43	PLUMBING SYSTEMS SUBTOTAL	•	•	•	400,000.00	\$177,336	10.98%	\$0	\$6,344	\$235,826	\$0
44											
45 46	5.0 HVAC SYSTEMS										
47	Heating										
48	Boilers (2005 Hydronic System)										
49	LIVA O OVOTEMO CURTOTAL					**	0.000/		**		
50 51	HVAC SYSTEMS SUBTOTAL					\$0	0.00%	\$0	\$0	\$0	\$0
	6.0 ELECTRICAL SYSTEMS										
53											
54	Lighting	05 :-:		0	22		0.0=*/				
55 56	Replace Lighting with LED's (New OS, Switching, etc.) Replace all emergency and exit lights	23,103 23,103	1	23,103 23,103	\$2.00 \$0.25		2.97% 0.37%	\$48,054 \$6,007			
57	Add Occupancy Sensors	23,103	1	23,103	\$0.25 \$500.00	\$15,600	0.37%	\$6,007 \$15,600			
58	Add electrical upgrade for IT	30	1	30	\$5,000.00		9.66%	\$156,000			
59							40.6=0/	****		**	
60 61	ELECTRICAL SYSTEMS SUBTOTAL					\$225,661	13.97%	\$225,661	\$0	\$0	\$0
	7.0 SECURITY (Wright & Hunter)										
63	Door Access System	1	1	1	\$25,000.00	\$26,000	1.61%	\$26,000			
64	Surveillance System	1	1	1	\$19,000.00	\$19,760	1.22%	\$19,760			
65 66	SECURITY SYSTEMS SUBTOTAL					\$4E 760	2.83%	\$4E 760	ęn.	\$0	en.
UU	SECURITI STSTEWS SUBTUTAL					\$45,760	2.03%	\$45,760	\$0	φU	\$0



Summary of Costs Admin

23,103	istration s.f. 2-story Building 1906, Additions 1915, 2006		Geogra	Cost Data ation Factor = aphic Factor = lation Factor =	1.00 1.00 1.04	(Medium) (US Median) Spring 2017		1.04	Cost Escal	ation Factors 1.37	1.04
Line No.	Draft 1-29-18 Program Area	Area Required (in Sq. Ft.)	No. of Rms. / Units Required	Total Area (in Sq. Ft.)	Base Unit	Effective Program Area Cost (\$)	As % of Total Cost	Critical Needs (1 - 3 years)	Deferrable Maintenance	Property Enhancement (7 - 10 years)	Other
67	0.0 NOT USED	(III SQ. F t.)	Required	(iii Sq. Ft.)	COSt (\$)	COST (\$)	COST	(1 - 3 years)	(4 - 0 years)	(r - 10 years)	
71 72	OTHER SUBTOTAL					\$0	0.00%	\$0	\$0	\$0	\$(
	0.0 FURNITURE & EQUIPMENT Other furniture (Office, lobby, etc.)	1	1	1	\$50,000.00	\$52,000	3.22%			\$71,240	
76	FURNITURE & EQUIPMENT SUBTOTAL					\$52,000	3.22%	\$0	\$0	\$71,240	\$(
77 78 1	0.0 TECHNOLOGY (Wright & Hunter)										
79 80 81 82 83 84	Instructional Technology Classroom Technology (Desktop, Laptops, Tablets) Network Cabling Network Wireless and Switches Telephone System Public Address Systems	1 1 1 1	1 1 1 1 1	1 1 1 1	\$42,000.00 \$56,500.00 \$200,000.00 \$220,000.00 \$14,400.00 \$25,000.00	\$43,680 \$58,760 \$208,000 \$228,800 \$14,976 \$26,000	2.70% 3.64% 12.88% 14.16% 0.93% 1.61%	\$43,680 \$208,000 \$228,800 \$14,976 \$26,000		\$80,501	
85 86	Fiber WAN TECHNOLOGY SUBTOTAL	1	1	1	\$40,000.00	\$41,600 \$621,816	2.58% 38.49%	\$41,600 \$563,056	\$0	\$80,501	\$
87 88 89 90 91 92	Building Infrastructure Improvement Total: Project Contingency: Permits, Testing & Printing: Construction Manager Fee and Costs: Professional Fees & Costs:	10.00% 2.50% 8.00% 8.00%	Of Building	23,103 g & Site Budget g & Site Budget g & Site Budget g & Site Budget		\$1,389,803 \$71,599 \$19,690 \$64,582 \$69,749	86.03% 4.43% 1.22% 4.00% 4.32%	\$1,021,898 \$45,884 \$12,618 \$41,388 \$44,699	\$103,712 \$10,371 \$2,852 \$9,355 \$10,103	\$387,567 \$23,583 \$6,485 \$21,271 \$22,973	\$ \$ \$ \$
	PROJECT TOTAL					\$1,615,422	100.00%	\$1,166,486	\$136.393	\$461.879	\$



			Geogr	Cost Data cation Factor = aphic Factor = lation Factor =	1.00 1.00 1.04	(Medium) (US Median) Summer 2016		1.04	Cost Esca 1.22	lation Factors 1.37
Line No.	Program Area	Area Required (in Sq. Ft.)	No. of Rms. / Units Required	Total Area (in Sq. Ft.)	Base Unit	Effective Program Area Cost (\$)	As % of Total Cost	Critical Needs (1 - 3 years)	Deferrable Maintenance	pital Priorities Property Enhancement (7 - 10 years)
60,001	Elementary School s.f. 3-story Building 925, Addition: 1928									
	Roofing Work - J.D. Candler Report Replace Roof (BUR, installed 1990, grade F) Replace Roof (BUR, installed 1996, grade F) Replace Roof (BUR, installed 2000, grade D)	4,737 9,952 4,540	1 1 1	4,737 9,952 4,540	\$10.00 \$10.00 \$10.00	\$49,265 \$103,501 \$47,216	33.74% 70.88% 32.33%	\$49,265 \$103,501 \$47,216		
68,016	Elementary School s.f. 2-story Building 953 Addition: 1961									
	Roofing Work - J.D. Candler Report Replace Roof (BUR, installed 1987, grade D) Replace Roof (BUR, installed 1990, grade D) Replace Roof (BUR, installed 1994, grade D) Replace Roof (BUR, installed 2000, grade D) Replace Roof (BUR, installed 1996, grade C) Replace Roof (BUR, installed 1998, grade B)	10,324 8,414 16,023 3,613 16,152 764	1 1 1 1 1	10,324 8,414 16,023 3,613 16,152 764	\$9.00 \$10.00 \$9.00 \$10.00 \$9.11 \$22.00	\$87,506 \$149,975 \$37,575 \$153,031	1606.43% 1454.70% 2493.21% 624.65% 2544.00% 290.59%	\$96,633 \$87,506 \$149,975 \$37,575	\$186,697	\$23,948
76,795	Elementary School s.f. 1-story Building 953 Addition: 1961									
	Roofing Work - J.D. Candler Report Replace Roof (Slate installed 1990, Grade B) Replace Roof (BUR installed 1998, Grade C) Replace Roof (BUR, installed 1998, Grade C) Replace Roof (BUR, installed 1998, Grade C) Replace Roof (BUR, installed 2003, Grade D)	1 1 1 1	1 1 1 1	39,004 1,168 493 1,699 413	\$25.00 \$10.00 \$15.00 \$10.00 \$10.00	\$1,014,104 \$12,147 \$7,691 \$17,670 \$4,295	0.00% 0.00% 0.00% 0.00% 0.00%		\$14,820 \$9,383 \$21,557 \$5,240	
	Elementary School s.f. 3-story Building 935									
	Roofing Work - J.D. Candler Report Replace Roof (Slate, installed 1950, grade C) Replace Roof (BUR, installed 1997, grade C) Replace Roof (EPDM, installed 1998, grade C) Replace Roof (BUR, installed 2002, grade D) Replace Roof (BUR, installed 2002, grade C) Replace Roof (BUR, installed 2006, grade C)	5,714 6,026 148 581 1,836 2,706 591 1,367 507 1,603 401	1 1 1 1 1 1 1 1 1 1	5,714 6,026 148 581 1,836 2,706 591 1,367 507 1,603 401	\$25.00 \$8.00 \$18.00 \$13.00 \$9.00 \$16.00 \$25.00 \$0.00 \$13.00	\$148,564 \$50,136 \$2,771 \$7,855 \$24,823 \$25,328 \$9,834 \$11,373 \$13,182 \$0 \$5,422	0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00% 0.00%	\$13,182 \$0	\$181,248 \$61,166 \$3,380 \$9,583 \$30,284 \$30,900 \$11,998 \$13,876	
	Elementary School s.f. 2-story Building 928									
	Roofing Work - J.D. Candler Report Replace Roof (Slate, installed 1950, Grade C) -Rep Replace Roof (BUR, installed 1999, Grade B) Replace Roof (BUR, installed 1999, Grade B) Replace Roof (BUR, installed 1999, Grade C) Replace Roof (BUR, installed 1999, Grade C) Replace Roof (BUR, installed 1995, Grade C) Replace Roof (BUR, installed 1995, Grade C) Replace Roof (BUR, installed 1995, Grade C) Replace Roof (BUR, installed 2006, Grade B) Replace Roof (BUR, installed 2006, Grade C) Replace Roof (BUR, installed 2006, Grade C) Replace Roof (BUR, installed 2006, Grade C)	5,994 1,184 1,173 52 98 474 270 3,573 6,748 494 106	1 1 1 1 1 1 1 1 1 1	5,994 1,184 1,173 52 98 474 270 3,573 6,748 494 106	\$3.00 \$9.00 \$30.00 \$30.00 \$12.00 \$11.00 \$9.00 \$12.00 \$12.00	\$18,701 \$11,082 \$10,979 \$1,622 \$3,058 \$5,916 \$3,089 \$33,443 \$63,161 \$6,165 \$3,307	18.29% 10.84% 10.74% 1.59% 2.99% 5.79% 3.02% 32.71% 61.78% 6.03% 3.24%		\$22,816 \$1,979 \$3,730 \$7,217 \$3,768 \$77,057 \$7,521 \$4,035	
Н	Roofing Work - J.D. Candler Report Replace Roof (BUR, installed 1987, Grade C) Replace Roof (BUR, installed 2005, Grade B) Replace Roof (BUR, installed 2005, Grade C) Replace Roof (BUR, installed 2005, Grade D)	1,192 18,991 6,563 969	1 1 1 1	1,192 18,991 6,563 969	\$12.50 \$8.00 \$8.00 \$30.00	\$15,496 \$158,005 \$54,604 \$30,233	0.00% 0.00% 0.00% 0.00%	\$30,233	\$18,905 \$66,617	\$216,467



			Cost Data						
			ation Factor = aphic Factor =	1.00 1.00	(Medium) (US Median)			Cost Esca	lation Factors
			lation Factor =	1.04	Summer 2016		1.04	1.22	1.37
								Ranked Ca	pital Priorities
Line	Area Required	No. of Rms. / Units	Total Area	Base Unit	Effective Program Area	As % of Total	Critical Needs	Deferrable Maintenance	Property Enhancemen
No. Program Area	(in Sq. Ft.)	Required	(in Sq. Ft.)	Cost (\$)	Cost (\$)	Cost	(1 - 3 years)	(4 - 6 years)	(7 - 10 years)
Replace Roof (BUR, installed 2005, Grade C)	3,395	1	3,395	\$8.00		0.00%		\$34,461	
Replace Roof (BUR, installed 2005, Grade C) Replace Roof (BUR, installed 2005, Grade C)	4,825 1,546	1	4,825 1,546	\$8.00 \$9.00		0.00% 0.00%		\$48,976 \$17,654	
Poupard Elementary School 51,973 s.f. 2-story Building Built: 1951									
Roofing Work - J.D. Candler Report									
Replace Roof (BUR, installed 1996, Grade D)	12,742 1,605	1 1	12,742 1,605	\$9.00	\$119,265 \$15,023	0.00% 0.00%	\$119,265 \$15,023		
Replace Roof (BUR, installed 1996, Grade D) Replace Roof (BUR, installed 1999, Grade D)	9,944	1	9,944	\$9.00 \$8.00		0.00%	\$82,734		
Replace Roof (BUR, installed 1999, Grade D)	4,213	1	4,213	\$8.00	\$35,052	0.00%	\$35,052		
Replace Roof (BUR, installed 2002, Grade C) Replace Roof (BUR, installed 2002, Grade C)	955 89	1	955 89	\$12.00 \$25.00	\$11,918 \$2,314	0.00% 0.00%		\$14,540 \$2,823	
Replace Roof (BUR, installed 2002, Grade D)	356	1	356	\$30.00		0.00%	\$11,107	Ψ2,023	
Replace Roof (BUR, installed 2002, Grade D)	500	1	500	\$35.00		0.00%	\$18,200		
Replace Roof (BUR, installed 2002, Grade B)	508	1	508	\$30.00	\$15,850	0.00%			\$21,714
Richard Elementary School 56,099 s.f. 3-story Building Built: 1930									
Roofing Work - J.D. Candler Report	4.004	4	4 004	#25.00	£40.000	0.000/		PEO CCE	
Replace Roof (Slate, installed 1950, Grade C) Replace Roof (Slate, installed 1950, Grade C)	1,881 3,138	1	1,881 3,138	\$25.00 \$25.00		0.00% 0.00%		\$59,665 \$99,537	
Replace Roof (Slate, installed 1950, Grade C)	1,881	1	1,881	\$25.00	\$48,906	0.00%		\$59,665	
Replace Roof (Slate, installed 1950, Grade C)	1,306	1	1,306	\$25.00		0.00%	#C 202	\$41,426	
Replace Roof (BUR, installed 1990, Grade D) Replace Roof (BUR, installed 1990, Grade F)	152 100	1 1	152 100	\$40.00 \$40.00	\$6,323 \$4,160	0.00% 0.00%	\$6,323 \$4,160		
Replace Roof (?, installed 1990, Grade C)	164	1	164	\$45.00	\$7,675	0.00%		\$9,364	
Replace Roof (Mod. SBS, installed 1995, Grade D) Trombley Elementary School	8,142	1	8,142	\$9.00	\$76,209	0.00%	\$76,209		
i3,110 s.f. 2-story Building Built: 1927 Roofing Work - J.D. Candler Report									
Replace Roof (Asphalt, installed 1995, Grade F)	266	1	266	\$10.00	\$2,766	5.66%	\$2,766		
Replace Roof (Slate, installed 1989, Grade C)	2,568	1	2,568	\$13.00	\$34,719	70.99%	#C 000	\$42,358	
Replace Roof (BUR, installed 1999, Grade F) Replace Roof (EPDM, installed 1999, Grade F)	161 176	1	161 176	\$36.00 \$18.00	\$6,028 \$3,295	12.33% 6.74%	\$6,028 \$3,295		
Replace Roof (BUR, installed 2003, Grade C)	5,843	1	5,843	\$9.00	\$54,690	111.83%	\$0,200	\$66,722	
Replace Roof (BUR, installed 2003, Grade C)	1,563	1	1,563	\$13.00	\$21,132	43.21%		\$25,781	£40.00
Replace Roof (BUR, installed 2003, Grade B) Replace Roof (Slate, installed ?, Grade C)	554 11,442	1 1	554 11,442	\$13.00 \$17.50	\$7,490 \$208,244	15.32% 425.81%		\$254,058	\$10,261
Brownell Middle School 157,493 s.f. 2-story Building									
Built: XXXX Roofing Work - J.D. Candler Report									
Replace Roof (BUR, installed 1999, grade C)	7,208	1	7,208	\$9.00	\$67,467	145.19%		\$82,310	
Replace Roof (BUR, installed 1999, grade C)	22,674	1	22,674	\$9.00		456.72%		\$258,919	
Replace Roof (BUR, installed 1999, grade C) Replace Roof (BUR, installed 1999, grade D)	5,617 10,922	1	5,617 10,922	\$9.00 \$9.00		113.14% 220.00%	\$102,230	\$64,142	
Replace Roof (BUR, installed 1999, grade D)	14,780	1	14,780	\$9.50		314.25%	Ψ102,230	\$178,152	
Replace Roof BUR, installed 2007, grade B)	482	1	482	\$12.00		12.95%			\$8,24
Replace Roof BUR, installed 2007, grade B) Replace Roof BUR, installed 2007, grade B)	549 1,283	1	549 1,283	\$18.00 \$12.00	\$10,277 \$16,012	22.12% 34.46%			\$14,08 \$21,93
Replace Roof BUR, installed 2007, grade B)	377	i	377	\$15.00		12.66%			\$8,05
Replace Roof BUR, installed 2007, grade B)	411	1	411	\$15.00		13.80%			\$8,78
Replace Roof BUR, installed 2007, grade B) Replace Roof BUR, installed 2007, grade B)	423 1,371	1	423 1,371	\$18.00 \$16.00		17.04% 49.09%		\$27,832	\$10,84
Replace Roof BUR, installed 2007, grade B)	15,035	1	15,035	\$9.00		302.85%		\$171,688	
Replace Roof (BUR, installed 2010, grade C)	12,365	1	12,365	\$9.00		249.07%		\$141,198	
Replace Roof (BUR, installed 2010, grade B) Replace Roof (BUR, installed 2010, grade B)	707 3,437	1	707 3,437	\$18.00 \$13.00		28.48% 100.00%			\$18,13 \$63,66
Replace Roof (BUR, installed 2014, grade B)	57,797		0,407	ψ10.00	ψ τυ, τυυ	100.0070			ψ00,00
Replace Roof (BUR, installed 2014, grade A)	4,906								
							Ī		
Parcells Middle School 208,855 s.f 2-story Building Built: 1951									



				Cost Data						
				cation Factor =	1.00	(Medium)			Cost F	lotion Fast
				aphic Factor = lation Factor =	1.00 1.04	(US Median) Summer 2016		1.04	1.22	lation Factors 1.37
									Pankad Ca	pital Priorities
			No. of			Effective		Cuitinal		•
		Area	Rms. /	T-4-1 A	D 11-14	Program	As % of	Critical Needs	Deferrable Maintenance	Property Enhancemen
Line	D	Required	Units	Total Area	Base Unit	Area	Total			(7 - 10 years
No.	Program Area Replace Roof (BUR, installed 1992, grade C)	(in Sq. Ft.) 11,907	Required 1	(in Sq. Ft.) 11,907	Cost (\$) \$8.00	Cost (\$) \$99,066	0.00%	(1 - 3 years)	(4 - 6 years) \$120,861	(1 - 10 years
	Replace Roof (BUR, installed 1992, grade C)	15,541	1	15,541	\$8.00		0.00%		\$157,747	
	Replace Roof (BUR, installed 1992, grade F)	7,680	1	7,680	\$15.00		0.00%	\$119,808	,	
	Replace Roof (BUR, installed 1992, grade C)	9,236	1	9,236	\$8.00	\$76,844	0.00%		\$93,749	
	Replace Roof (BUR, installed 1992, grade C) Replace Roof (BUR, installed 1992, grade C)	519 4,111	1	519 4,111	\$18.00 \$12.00	\$9,716 \$51,305	0.00% 0.00%		\$11,853 \$62,592	
_	Replace Roof (BUR, installed 1996, grade C)	7,351	1	7,351	\$9.00	\$68,805	0.00%		\$83,943	
	Replace Roof (BUR, installed 1996, grade C)	31,118	1	31,118	\$9.00	\$291,264	0.00%		\$355,343	
	Replace Roof (BUR, installed 1996, grade C) Replace Roof (BUR, installed 1996, grade C)	1,404 2,119	1	1,404 2,119	\$9.00 \$18.00	\$13,141 \$39,668	0.00% 0.00%		\$16,033 \$48,395	
	Replace Roof (BUR, installed 1996, grade C)	2,713	1	2,713	\$9.00	\$25,394	0.00%		\$30,980	
	Replace Roof (BUR, installed 2003, grade C)	2,766	1	2,766	\$9.00	\$25,890	0.00%		\$31,586	
	Replace Roof (BUR, installed 2005, grade C)	7,318	1	7,318	\$9.00	\$68,496	0.00%		\$83,566	
	Replace Roof (BUR, installed 2005, grade C) Replace Roof (BUR, installed 2005, grade C)	9,933 751	1	9,933 751	\$9.00 \$40.00	\$92,973 \$31,242	0.00% 0.00%		\$113,427 \$38,115	
	Replace Roof (BUR, installed 2006, grade C)	3,321	1	3,321	\$9.00		0.00%		φ30,113	\$42,586
	Replace Roof (BUR, installed 2009, grade B)	2,556	1	2,556	\$9.00		0.00%		\$29,187	, ,
	Replace Roof (BUR, installed 2013, grade A)	7,993								
Pierce	Middle School									
122,31 Built: <i>1</i>	3 s.f. 2-story Building									
buiit.	Roofing Work - J.D. Candler Report									
	Replace Roof (BUR, installed 1987, grade C)	32,709	1	32,709	\$9.00		2978.96%		\$373,511	
	Replace Roof BUR, installed 1998, grade C)	6,930	1	6,930	\$9.00		631.15%		\$79,135	
	Replace Roof BUR, installed 1998, grade C) Replace Roof BUR, installed 1998, grade C)	4,821 4,388	1	4,821 4,388	\$9.00 \$10.00		439.07% 444.04%		\$55,052 \$55,675	
	Replace Roof BUR, installed 1998, grade C)	2,254	1	2,254	\$9.00	\$21,097	205.28%		\$25,739	
	Replace Roof BUR, installed 1998, grade C)	185	1	185	\$19.50	\$3,752	36.51%		\$4,577	
	Replace Roof BUR, installed 1998, grade C) Replace Roof (BUR, installed 2005, grade C)	349 9,103	1	349	\$14.00 \$9.55	\$5,081 \$90,411	49.44% 879.72%		\$6,199	
	Replace Roof (BUR, installed 2000, grade C)	705	1	9,103 705	\$9.55 \$16.00		114.15%		\$110,301	\$16,07
	Replace Roof (BUR, installed 2000, grade B)	209	1	209	\$20.00	\$4,347	42.30%			\$5,95
	Replace Roof (BUR, installed 2000, grade B)	226	1	226	\$20.00	\$4,701	45.74%		004 400	\$6,44
	Replace Roof (BUR, installed 2005, grade C) Replace Roof (BUR, installed 2005, grade C)	8,272 111	1	8,272 111	\$9.00 \$25.00	\$77,426 \$2,886	753.37% 28.08%		\$94,460 \$3,521	
	Replace Roof (BUR, installed 2005, grade C)	720	1	720	\$13.00		94.72%		\$11,876	
	Replace Roof (BUR, installed 2005, grade B)	522	1	522	\$16.00	\$8,686	84.52%			\$11,900
North	High School									
342,14 Built: 2	8 s.f. 3-story Building									
June. 2	Roofing Work - J.D. Candler Report									
	Replace Roof (BUR, installed 1990, grade C)	15,898	1	15,898	\$9.00	\$148,805	216.27%		\$181,542	
	Replace Roof (BUR, installed 1990, grade D) Replace Roof (BUR, installed 1990, grade D)	7,499 5,750	1	7,499 5,750	\$9.00		102.01%	\$70,191		
	Replace Roof (BUR, installed 1990, grade D) Replace Roof (BUR, installed 1995, grade C)	5,750 12,116	1	5,750 12,116	\$10.00 \$8.00	\$59,800 \$100,805	86.91% 146.51%	\$59,800	\$122,982	
	Replace Roof (BUR, installed 1995, grade C)	2,483	1	2,483	\$10.00	\$25,823	37.53%		\$31,504	
	Replace Roof (BUR, installed 1995, grade C)	17,054	1	17,054	\$8.00		206.22%	200 = : :	\$173,105	
	Replace Roof (BUR, installed 1996, grade D) Replace Roof (BUR, installed 1996, grade D)	6,700 43,837	1	6,700 43,837	\$9.00 \$8.00	\$62,712 \$364,724	91.14% 530.08%	\$62,712 \$364,724		
	Replace Roof (BUR, installed 1996, grade D) Replace Roof (BUR, installed 1996, grade C)	43,837 320	1	43,837 320	\$25.00		12.09%	ψ304,724	\$10,150	
	Replace Roof (BUR, installed 1999, grade C)	43,303	1	43,303	\$8.00	\$360,281	523.62%		\$439,543	
	Replace Roof (BUR, installed 1999, grade C)	4,694	1	4,694	\$9.00		63.86%		\$53,602	
	Replace Roof (BUR, installed 2001, grade C) Replace Roof (BUR, installed 2001, grade C)	6,112 2,048	1	6,112 2,048	\$9.00 \$10.00	\$57,208 \$21,299	83.15% 30.96%		\$69,794 \$25,985	
	Replace Roof (BUR, installed 2001, grade C)	2,500	1	2,500	\$18.00		68.02%		\$57,096	
	Replace Roof (BUR, installed 2001, grade B)	2,478	1	2,478	\$9.00	\$23,194	33.71%			\$31,77
	B B (/B): B : : : : : : : : : : : : : : : : :	11,769	1	11,769 2,844	\$8.00 \$9.00	\$97,918 \$26,620	142.31% 38.69%		\$119,460	\$36,46
	Replace Roof (BUR, installed 2003, grade C)		•	2,844 4,307	\$9.00	\$20,020 \$40,314	58.59%		\$49,182	φ30, 4 0
	Replace Roof (BUR, installed 2003, grade C) Replace Roof (BUR, installed 2003, grade B) Replace Roof (BUR, installed 2003, grade C)	2,844 4,307	1	7,507				I	\$21,519	
	Replace Roof (BUR, installed 2003, grade B) Replace Roof (BUR, installed 2003, grade C) Replace Roof (BUR, installed 2005, grade C)	4,307 1,696	1	1,696	\$10.00		25.64%		Ψ21,010	
	Replace Roof (BUR, installed 2003, grade B) Replace Roof (BUR, installed 2003, grade C) Replace Roof (BUR, installed 2005, grade C) Replace Roof (EDPM, installed 2005, grade B)	4,307 1,696 11,348	1 1	1,696 11,348	\$9.00	\$106,217	154.37%		Ψ21,010	
	Replace Roof (BUR, installed 2003, grade B) Replace Roof (BUR, installed 2003, grade C) Replace Roof (BUR, installed 2005, grade C) Replace Roof (EDPM, installed 2005, grade B) Replace Roof (EDPM, installed 2005, grade B)	4,307 1,696 11,348 4,303	1 1 1	1,696 11,348 4,303	\$9.00 \$10.00	\$106,217 \$44,751	154.37% 65.04%		Ψ21,010	\$61,30
	Replace Roof (BUR, installed 2003, grade B) Replace Roof (BUR, installed 2003, grade C) Replace Roof (BUR, installed 2005, grade C) Replace Roof (EDPM, installed 2005, grade B)	4,307 1,696 11,348	1 1	1,696 11,348	\$9.00	\$106,217	154.37%		\$65,102	\$61,30
	Replace Roof (BUR, installed 2003, grade B) Replace Roof (BUR, installed 2003, grade C) Replace Roof (BUR, installed 2005, grade C) Replace Roof (EDPM, installed 2005, grade B) Replace Roof (EDPM, installed 2005, grade B) Replace Roof (EDPM, installed 2005, grade B) Replace Roof (EDPM, installed 2005, grade C) Replace Roof (EDPM, installed 2005, grade C)	4,307 1,696 11,348 4,303 4,108 5,131 2,685	1 1 1 1 1	1,696 11,348 4,303 4,108 5,131 2,685	\$9.00 \$10.00 \$9.00 \$10.00 \$18.00	\$106,217 \$44,751 \$38,451 \$53,362 \$50,263	154.37% 65.04% 55.88% 77.56% 73.05%			\$61,309 \$52,678
	Replace Roof (BUR, installed 2003, grade B) Replace Roof (BUR, installed 2003, grade C) Replace Roof (BUR, installed 2005, grade C) Replace Roof (EDPM, installed 2005, grade B) Replace Roof (EDPM, installed 2005, grade B) Replace Roof (EDPM, installed 2005, grade B) Replace Roof (EDPM, installed 2005, grade C)	4,307 1,696 11,348 4,303 4,108 5,131	1 1 1 1	1,696 11,348 4,303 4,108 5,131	\$9.00 \$10.00 \$9.00 \$10.00	\$106,217 \$44,751 \$38,451 \$53,362 \$50,263 \$17,056	154.37% 65.04% 55.88% 77.56%		\$65,102	\$145,518 \$61,309 \$52,678 \$23,367 \$66,424



Line Required Units Total Area Base Unit Area Total No. Program Area (in Sq. Ft.) Required (in Sq. Ft.) Cost (\$) Cost (\$			Geogr	Cost Data cation Factor = caphic Factor = clation Factor =	1.00 1.00 1.04	(Medium) (US Median) Summer 2016	i	1.04	Cost Esca 1.22	lation Factors 1.37
Main		Required	Rms. / Units			Program Area	Total	Needs	Deferrable Maintenance	Property Enhancement
Built: 1927 Roofing Work - J.D. Candler Report Replace Roof (Type ?, installed ?, grade ?) 16,929 1 16,929 50.00 50.00% 50 Replace Roof (Type ?, installed ?, grade ?) 5,863 1 5,863 50.00 50.00% 50 Replace Roof (Type ?, installed ?, grade ?) 29,355 1 29,355 50.00 50.00% 50 Replace Roof (Type ?, installed ?, grade ?) 7,730 1 7,730 50.00 50.00% 50 Replace Roof (Type ?, installed ?, grade ?) 3,658 1 3,658 50.00 50.00% 50 Replace Roof (Type ?, installed ?, grade ?) 3,658 1 3,658 50.00 50.00% 50 Replace Roof (Type ?, installed ?, grade ?) 3,610 1 3,610 50.00 50.00% 50 Replace Roof (Type ?, installed ?, grade ?) 3,610 1 3,610 50.00 50.00% 50 Replace Roof (Type ?, installed ?, grade ?) 11,173 1 11,173 50.00 50.00% 50 Replace Roof (Type ?, installed ?, grade ?) 11,173 1 11,173 50.00 50.00% 50 Replace Roof (Type ?, installed ?, grade ?) 15,017 1 15,017 50.00 50.00% 50 Replace Roof (Type ?, installed ?, grade ?) 15,017 1 15,017 50.00 50.00% 50 Replace Roof (Type ?, installed ?, grade ?) 15,017 1 15,017 50.00 50.00% 50 Replace Roof (Type ?, installed ?, grade ?) 15,017 1 15,017 50.00 50.00% 50 Replace Roof (BUR, installed 199, Grade ?) 15,171 1 15,017 50.00 50.00% 50 Replace Roof (BUR, installed 199, Grade ?) 15,142 1 5,142 50.00 54,120 173,977% 55,718 Replace Roof (BUR, installed 1999, Grade C) 5,142 1 5,142 50.00 54,120 173,977% 55,718 Replace Roof (BUR, installed 1999, Grade C) 11,448 11,448 50.00 54,120 173,973,98 55,718 Replace Roof (BUR, installed 1999, Grade C) 15,49 1 15,499 50.00 51,715 33,873,88% 513,0727 Replace Roof (BUR, installed 1998, Grade D) 1,143 1 1,143 513.00 515,453 558,61% 5145,071 Replace Roof (BUR, installed 1998, Grade D) 1,143 1 1,143 513.00 515,453 558,61% 5145,071 Replace Roof (BUR, installed 1998, Grade D) 1,143 1 1,143 513.00 515,453 558,61% 515,453 Administration Roofing Work - J.D. Candler Report Replace Roof (BUR, installed 2004, Grade C) 96 1 96 542.00 54,144 0 00.00% 515,419 0.00% 515,419 0.00% 515,419 0.00% 515,419 0.00% 515,419 0.00% 515,419 0.00% 515,419 0.00% 515,419 0.00% 515,419 0.										
Replace Roof (Type 2, Installed 7, grade ?) Replace Roof (BuR, Installed 1985, Grade C) Replace Roof (BuR, Installed 1985, Grade E) Replace Roof (BuR, Installed 1986, Grade C) Replace Roof (BuR, Installed 1990, Grade D) Replace Roof (BuR, Ins	Built: 1927									
Replace Roof (Type ?, installed ?, grade ?) Replace Roof (Roof ?, grade ?) Replace Roof (Bur, installed Report Replace Roof (Bur, installed 1985, Grade F) Replace Roof (Bur, installed 1989, Grade C) Replace Roof (Bur, installed 1989, Grade C) Replace Roof (Bur, installed 1990, Grade D) Replace Roof (Bur, installed 1990, Grade D) Replace Roof (Bur, installed 1990, Grade D) Replace Roof (Bur, installed 1998, Grade D) Replace Roof (Bur, installed 2004, Grade C) Replace Roof (Bur, installed 2004, Grade C) Replace Roof (Bur, installed 2005, Grade C) Replace Roof (Bur, installed 2005, Grade C) Replace Roof (Bur, installed 2004, Grade C) Replace Roof (Bur, installed 2005, Grade B) Replace Roof (Bur, installed 2006, Grade B)	Replace Roof (Type ?, installed ?, grade ?)	5,863 29,355 7,730 3,658	1 1 1 1	5,863 29,355 7,730 3,658	\$0.00 \$0.00 \$0.00 \$0.00	\$0 \$0 \$0 \$0	0.00% 0.00% 0.00% 0.00%	\$0 \$0 \$0 \$0		
## 49.445 s.f 2-story Building ## Built: 1955 Roofing Work - J.D. Candler Report Replace Roof (BUR, installed 1985, Grade F)	Replace Roof (Type?, installed?, grade?)	3,610 11,173 1,688 15,017	1 1 1 1	3,610 11,173 1,688 15,017	\$0.00 \$0.00 \$0.00 \$0.00	\$0 \$0 \$0 \$0	0.00% 0.00% 0.00% 0.00%	\$0 \$0 \$0 \$0		
Replace Roof (BUR, installed 1985, Grade F) 422 1 422 \$25.00 \$10,972 396.62% Replace Roof (BUR, installed 1989, Grade C) 5,142 1 5,142 \$9.00 \$48,129 1739.77% \$58,718 Replace Roof (BUR, installed 1990, Grade C) 11,448 1 11,448 \$9.00 \$107,153 3873.38% \$130,727 Replace Roof (BUR, installed 1990, Grade D) 15,499 1 15,499 \$9.00 \$145,071 5244.02% \$145,071 Replace Roof (BUR, installed 1998, Grade D) 176 1 176 \$28.00 \$5,125 185.26% \$5,125 Replace Roof (BUR, installed 1998, Grade D) 1,143 1 1,143 \$13.00 \$15,453 558.61% \$15,453 \$1	49,445 s.f 2-story Building Built: 1955									
23,103 s.f. 2-story Building Built: 1906, Additions 1915, 2006 Roofing Work - J.D. Candler Report Replace Roof (EDPM, installed 2004, Grade C) 96 1 96 \$42.00 \$4,193 0.00% \$5,116 Replace Roof (BUR, installed 2005, Grade C) 1,059 1 1,059 \$14.00 \$15,419 0.00% \$18,811 Replace Roof (St Seam Mtt, installed 2005, Grade B 315 1 315 \$18.00 \$5,897 0.00% Replace Roof (BUR, installed 2010, Grade B) 5,720 1 5,720 \$8.75 \$52,052 0.00% Replace Roof (Shingles, installed 2010, Grade B) 2,962 1 2,962 \$8.00 \$24,644 0.00% Replace Roof (BUR, installed ?, Grade ?) 1,093 1 1,093 \$0.00 \$0 0.00% Totals: \$1,951,333 \$6,294,345	Replace Roof (BUR, installed 1985, Grade F) Replace Roof (BUR, installed 1989, Grade C) Replace Roof (BUR, installed 1990, Grade C) Replace Roof (BUR, installed 1990, Grade D) Replace Roof (BUR, installed 1998, Grade D)	5,142 11,448 15,499 176	1 1 1 1	5,142 11,448 15,499 176	\$9.00 \$9.00 \$9.00 \$28.00	\$48,129 \$107,153 \$145,071 \$5,125	1739.77% 3873.38% 5244.02% 185.26%	\$145,071 \$5,125		
Replace Roof (EDPM, installed 2004, Grade C) 96 1 96 \$42.00 \$4,193 0.00% \$5,116 Replace Roof (BUR, installed 2005, Grade C) 1,059 1 1,059 \$14.00 \$15,419 0.00% \$18,811 Replace Roof (St Seam Mtl, installed 2005, Grade B 315 1 315 \$18.00 \$5,897 0.00% Replace Roof (BUR, installed 2010, Grade B) 5,720 1 5,720 \$8.75 \$52,052 0.00% Replace Roof (Shingles, installed 2010, Grade B) 2,962 1 2,962 \$8.00 \$24,644 0.00% Replace Roof (BUR, installed ?, Grade ?) 1,093 1 1,093 \$0.00 \$0 0.00%	23,103 s.f. 2-story Building Built: 1906, Additions 1915, 2006									
	Replace Roof (EDPM, installed 2004, Grade C) Replace Roof (BUR, installed 2005, Grade C) Replace Roof (St Seam Mtl, installed 2005, Grade B Replace Roof (BUR, installed 2010, Grade B) Replace Roof (Shingles, installed 2010, Grade B)	1,059 315 5,720 2,962	1 1 1 1	1,059 315 5,720 2,962	\$14.00 \$18.00 \$8.75 \$8.00	\$15,419 \$5,897 \$52,052 \$24,644	0.00% 0.00% 0.00% 0.00%			
Grand Total \$9,172,303									\$6,294,345	\$926,624
							GIAIIO TOTA	ъ р у, г <i>г 2</i> ,303		