School Bond 2021





Bond 2021 List

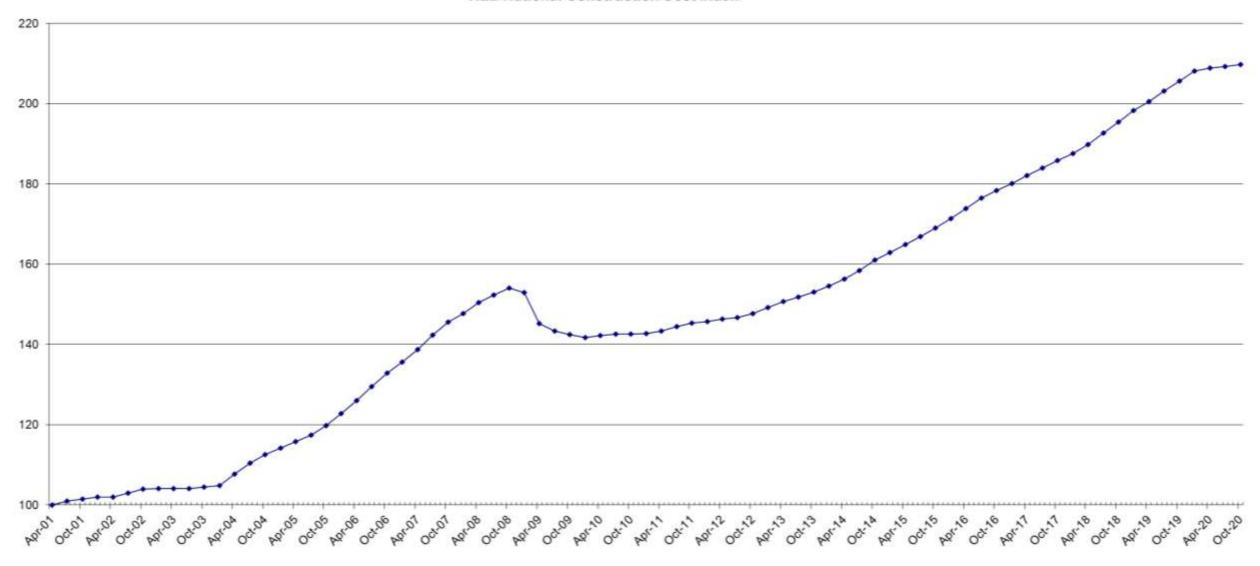
Project Title & Description	Bone	damount	Attendance Area
Chapman Window Replacement - This 62 year old facility is located in Anchor Point and was constructed in 1958	\$	308,580.00	Anchor Point
with additions in 1969, 1978 and 1982. This portion of the facility was constructed in 1982. This project completes			
the restoration of building envelope that began in 2017. This will result in lower energy consumption and extend			
the life of the facility.			
Cooper Landing Window Replacement / Siding - The 48 year old facility was constructed in 1972 with an addition in	\$	227,550.00	Cooper Landing
1982. This project addresses the building envelope including windows and siding that is beyond it's 30 year			
expected useful life and beginning to rot. This will result in reduced energy consumption and extend the life of			
District Wide Access Control - All but one school in the district are in excess of twenty years old and were not	\$	2,000,589.00	District Wide
constructed to address the security challenges schools face today. This project will use technology to further			
address access control needs to improve the security of our schools, safety of our students and staff.			
District Wide School Building Automation Control Upgrade - Schools across the district have building controls that	\$	900,000.00	District Wide
date back to the mid to late 1980's. These systems have exceeded their 20 year expected life, new parts are not			
availble and systems are no longer suported by the manufacturer. These continuing upgrades are necessary to			
prevent system failure, improve system monitoring and protect the facilitys. This project is a key step in improving			
efficiency, and reliability to the heating systems.			
Homer High School Roof Replacement - The existing 35 year old shake roof dates back to 1985, when the facility	\$	8,271,734.00	Homer
was constructed. This roof is out of warranty, far in excess of its estimated 20 year useful life and is deteriorating.			
Attic ventilation has proven to be inadequate, and the internal gutter system is no longer functioning to protect			
the building from water intrusion. This project will replace the entire roof, improve insulation and provide			
adequate ventilation. This will result in lower energy consumption and extend the life of the facility.			
West Homer Elementary – North Wall Sealing - Shortly after construction, the north wall constructed of fluted	\$	659,583.00	Homer
concrete block started allowing moisture penetration into the building. This has subsequently caused damage to			
surfaces, and has contributed to mold growth by allowing moisture to penetrate the building envelope. This			
project would install a secondary wall over the exterior surface to decelerate the driven rain, prevent water			
intrusion and remediate the damage caused by water intrusion. This will extend the life of the facility and provide			
a healthier educational environment.			
Kachemak-Selo New K-12 School - The school is located on Kachemak Bay and is isolated from the maintained road	\$	5,390,000.00	Kachemak -Selo
system. The buildings are in disrepair and are out of code compliance. The Kenai Peninsula Borough received a two	-		
year extension to allow procurement of matching funds by June 2021. The State has appropriated \$10,010,000.00			
with a \$5,390,000 local match required for this project. This project constructs a single K-12 school to replace the			
three existing school buildings.			
Kenai Middle School Kitchen / Serving Area Remodel - The 52 year old Middle School was constructed in 1968 and	\$	750,000.00	Kenai
has never been remodeled. To provide food service in its current configuration, three lunch periods are required.			
This project will enlarge the kitchen and address the serving point to increase the feeding capacity of the kitchen			
and commons area.			
Kenai Central High School Building Automation Control Replacement -The 56 year old school was constructed in	\$	872,500.00	Kenai
1964 with additions in 1967, 1968, 1975 and 1983. The 38 year old heating controls were installed in 1982 and have			
exceeded their 20 year expected life. The components are failing and the entire system needs to be replaced with			
updated controls to improve reliability and protect the facility.	1		

Nanwalek Kitchen Expansion / Window Replacement - This 62 year old school is located on the southern coast of	\$	1,230,214.00	Nanwalek
Kachemak Bay and was constructed in 1958 with additions in 1977 and 1984. The windows that are being replaced			
are original to the 1958 construction, the kitchen was part of the 1984 addition. The window replacement portion			
of the project will replace the failed windows with more energy efficient windows and address damage to the			
adjacent building envelope. The kitchen expansion will allow for serving of the increased student population and			
provide relief for a school that has been operating in excess of its capacity since 2009.			
Nikiski Middle High School Building Automation Control Replacement - The 34 year old heating controls were	\$	593,395.00	Nikiski
installed in 1986. The components are failing and are no longer manufactured. The system has exceeded the 20			
year expected life and needs to be replaced with updated controls to improve reliability and protect the facility.			
Nikiski North Star Roof Replacement (metal roof) - In the winter of 2019 significant ice damming occurred, causing	\$	3,422,902.00	Nikiski
water to backup and penetrate the 33 year old roof that has exceeded it's 20 year expected life. This caused			
saturation of the insulation, filled of the soffits with ice resulting in interior building damage. Temporary			
measures were installed to protect the structure was installation of heat trace along the eves, to minimize ice			
damming, operation of the heat trace and loss of insulation has increased the utility cost at this site. This project			
will replace the damaged and insulation to reduce the operational costs at this site.			
Ninilchik Window Replacement - This section of the facility was constructed in 1950 the project addresses	\$	201,017.00	Ninilchik
replacement of single pane, failed windows and damage to adjacent building envelope. This will extend the life of			
the facility and reduce energy consumption.			
Ninilchik Boiler Replacement and Controls - The 62 year old facility was constructed in 1958 with additions in 1962,	\$	413,012.00	Ninilchik
1968, 1981 and 1985. The elementary wing was destroyed by fire in 1996 and the final addition was constructed in			
1997. This project will replace the boilers that were installed in 1998, with more efficient boilers, improved			
redundancy and building control and remote monitoring. This project will reduce operational and maintenance			
costs at this site.			
Seward Middle School Repair 2016 Earthquake Damage - The building was damaged during the 2016 earthquake.	\$	857,314.00	Seward
Interior and exterior repairs are required to preserve building integrity and are part a seismic retrofit necessary for			
the protection of this valuable structure.			
Skyview Middle School Building Automation Control Replacement -This school houses the middle school students	\$	591,360.00	Soldotna
for the Soldotna area as well as River City Academy. The 33 year old heating controls were installed in 1987 have			
exceeded their 20 year useful life. The components are failing and the system needs to be replaced with updated			
controls to improve reliability and protect the facility.			
Soldotna School Facilities Renovation - There is currently a feasibility study underway for Soldotna area schools.	\$	2,000,000.00	Soldotna
Following the study recommendations for reconfiguration or structure protection and remediation will be			
completed at the Soldotna area schools. This project will address the capital needs of these facilities to extend			
their useful life.			
Sterling Window / Siding Replacement - This 62 year old facility was constructed in 1958 with additions in 1961,	\$	417,750.00	Sterling
1963, 1968, 1978 and 1983. This project addresses the east wing of the facility that was constructed in 1961, 1963			
and 1978. The windows and siding have far exceeded their 30 year expected life, and have failed allowing water to			
infiltrate the walls causing additional damage in the facility. This project will extend the life of the facility and			
provide a healthier educational environment.	ļ .		
Tebughna (Tyonek) – Window Replacement - This 54 year old remote facility is located across Cook Inlet from	\$	832,500.00	Tebughna (Tyonek
Nikiski, the facility was constructed in 1966 with an addition in 1976. The windows are beyond their 30 year useful			
life and have failed. This project includes the replacement of the windows and storefront and will preserve the			
life of the facility and result in operational cost savings.	<u> </u>		
TOTAL BOND	\$	29,940,000.00	

Potential Bond Items- Removed from Bond List - Funded by KPB

Project Title & Description	Attendance Area	Notes
Hope DDC Control Replacement – Delayed due to COVID	Норе	2021 Budget
Mountain View DDC Control Replacement – Delayed due to COVID	Kenai	2021 Budget
McNiel Canyon Boiler Replacement - Completed	McNiel Canyon	2020 Appropriation
Nikiski North Star - DDC Control Replacement – Delayed due to COVID	Nikiski	2021 Budget
Susan B. English – Backup Generator – Delayed due to COVID	Seldovia	2021 Budget

RLB National Construction Cost Index



Cost of construction has increased and continues to increase – in October 2020 data shows it takes \$209.82 to purchase what cost \$100.00 in 2001 construction

KPB Funding was improving - up from 2.96 in 2017 but down 1% from 2020 based on property value.



Rank 2020	School District	Score	% of min recommended	Rank 2021	School District	Score	% of min recommend ed
1	Anchorage	5.00	100.00%	1	Anchorage	5.00	100.00%
2	Galena City	4.87	97.40%	2	Galena City	5.00	100.00%
3	Ketchikan Borough	4.42	88.40%	3	Fairbanks Borough	3.62	72.40%
4	Denali Borough	4.19	83.80%	4	Lower Kuskokwim	3.46	69.20%
5	Fairbanks Borough	3.88	77.60%	5	Ketchikan Borough	3.39	67.80%
6	Lower Kuskokwim	3.63	72.60%	6	Lower Kuskokwim	3.20	64.00%
7	Yukon-Koyukuk	3.09	61.80%	7	Kenai Peninsula Borough	3.03	60.60%
8	Kenai Peninsula Borough	3.08	61.60%	8	Southeast Island	3.01	60.20%
9	Southeast Island	3.01	60.20%	9	Nenana City	2.97	59.40%
10	Nenana City	2.97	59.40%	10	Denali Borough	2.93	58.60%
11	Northwest Arctic Borough	2.93	58.60%	11	Northwest Arctic Borough	2.93	58.60%
12	Kodiak Island Borough	2.83	56.60%	12	Kodiak Island Borough	2.83	56.60%
13	Pribilof Island	2.67	53.40%	13	Yukon-Koyukuk	2.82	56.40%
14	Iditarod Area	2.53	50.60%	14	Iditarod Area	2.66	53.20%
15	Juneau Borough	2.44	48.80%	15	Mat-Su Borough	2.35	47.00%
16	Craig City	2.38	47.60%	16	Juneau Borough	2.33	46.60%

SOHOOL DISTRIC	1
Renewal Replacement Schedule Deferred Maintenance	

	CIP FY	2021	Building System Appraisal (List take Appendix A of EED Preventive Maint Handbook)		
	Chapman Elementary 1958		System	Year Installed	Remain- ing Life Span
	Name	and/or Number	Site Improvements		
	EED#	24002001A	Site Utilities		
	Dist. #	24	Foundation/Substruct.	1958	-13
	Gross Square Footage 5,808		Superstructure	1958	-13
			Exterior Wall System	1958	-38
			Exterior Windows	1958	-33
			Exterior Doors	1982	-19
	Nun	nber of Stories	Roof Systems	2013	12
		1	Interior Partitions	1958	-13
			Interior Doors	1992	1
	Building or Facility Use K-8		Interior Floor Finishes	2002	-4
			Interior Wall Finishes	1998	2
			Interior Ceiling Finishes	1958	-38
	Repla	acement Value	Specialties	1993	12
	\$1,287,871		Conveying Systems		
			Plumbing piping	1958	-33
		NOTES	Plumbing Fixtures	1992	1
		Gas Heating	Fire Protect./Suppres.	1994	3
	conversi	on in '12	HVAC Distribution	1978	-3
			HVAC Equipment	1978	-13
			HVAC Controls	1978	-23
			Electrical Serv./Gen.	1978	-3
			Electrical Distribution	1978	7
			Electrical Lighting	2003	7
			Special Electrical	1978	-28
	Faci	lity Cost Index	Equip and Furnishings		

Totals

0.80024608

Remainng Life Span -13 2 -13 -38 -33 -19 2 12 -13 2 -38 1 12 2 -33

eq'd	1
	2021
2008	132
2008	176
1983	117
1988	31
2002	6
2033	
2008	68
2022	21
2017	70
2023	
1983	45
2033	
1988	45
2022	22
2024	
2018	65
2008	147
1998	28

2018

2028 2028

1993

Year

work

Year

26

32

1,031

Year

2022

ar 2 22	Year 3
22	3 2023
27	
	33

33

Current Dollar Value of Systems/Components that

require Renewal or Replacement during Year

(in thousands of dollars)

Year

5

2025

Year

2024

Year

6

2026

|--|--|

\$

\$

\$

\$

\$

Deferred Project

Χ

Χ

X

X

X

Χ

X

X

X

\$

Total Costs by

System (in

dollars)

132,007

175,537

117,132

30,973

6,178

59,757

67,806

21,015

70,189

26,707

44,858

34,297

45,075

22,087 33,034

65,037

147,204

27.689

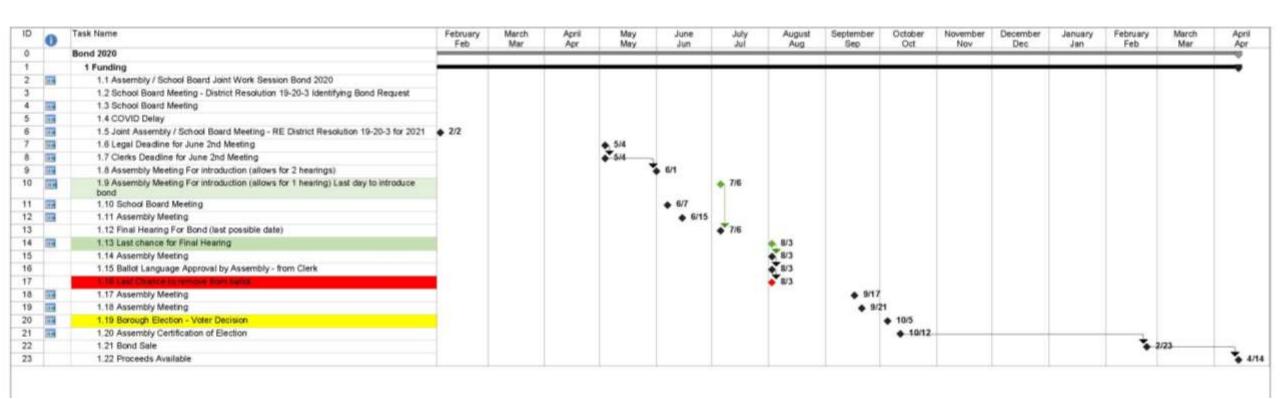
26,208 31,488

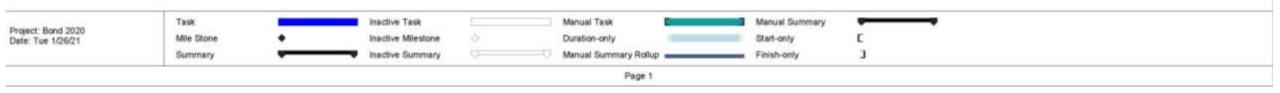
71,992

31,617

Six Year Total

School Bond 2021 Funding Timeline





Building Automation System Upgrades – Replacement (DDC)



HVAC Controls have a estimated 20 Year expected Life

Controls are installed during final year of construction – specified year prior

Kenai Central High School – Controls installed in 1982 – 39 years

Nikiski Middle High School – Controls installed in 1986 – 35 years

Skyview Middle School – Controls installed in 1987 – 34 years







Exterior Closures (Windows & Walls)

Chapman Window / Siding Replacement – 1982
Cooper Landing Window and Siding Replacement – 1972 & 1982
Nanwalek Window Replacement & Kitchen - 1958
Ninilchik Window Replacement – Single Pane Windows - 1950
Seward Middle School - 2016 Earthquake Damage
Sterling Window / Siding Replacement – 1961, 1963 & 1978
Tebughna (Tyonek) - Window Replacement - 1966 & 1976
West Homer Elementary – North Wall Sealing – Wind driven rain infiltration







School Roofing Replacement

Homer High School





Shingles broken and sliding out of position.



Shingles curling and cupping.



Nikiski North Star





Building Replacement -

Kachemak Selo

Early Development and requires a 35% Local Match

4 AAC 31.900(27) "geographically separated" means

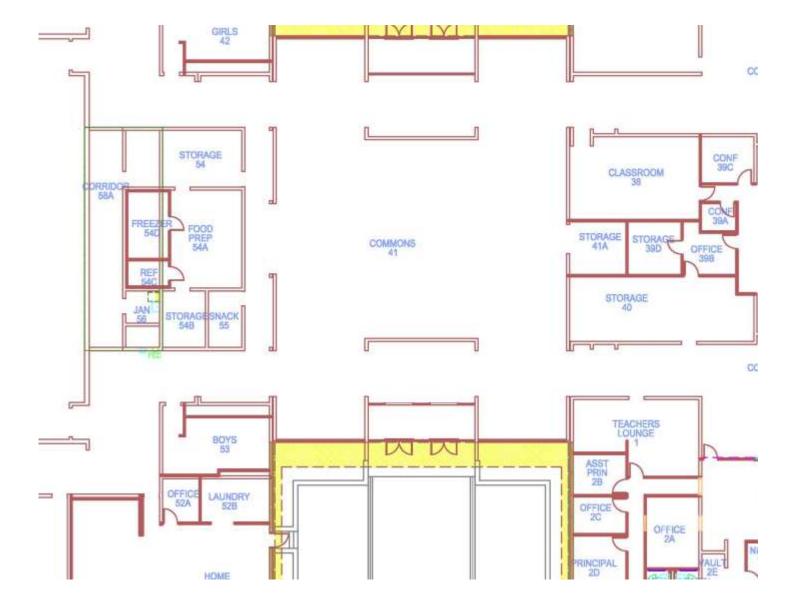
(A) lacking year-round, publicly-maintained road access to other district schools; or

Grant Funded By the Department of Education and

(B) separated by more than 20 road miles from the closest other school in the district;

Operational Improvements

Kenai Middle School Kitchen / Serving Area Remodel



District Wide Access Control

CARD KEY ACCESS - PRIORITY LIST

	Sterling Elementary
2	Kenai Alternative / Aurora Borealis
3	Soldotna Elementary / Montessori
4	Kenai Middle School
5	Nikiski North Star
6	Redoubt Elementary
7	West Homer Elementary / Big Fireweed
	Paul Banks Elementary
9	Kaleidoscope
11	K-Beach Elementary
12	Mountain View Elementary
13	McNeil Canyon Elementary
14	Seward Elementary
15	Skyview Middle School
16	Seward Middle School
17	Soldotna Prep School / River City Academy
18	Tustumena Elementary
19	Homer Middle School
20	Chapman
21	Tebughna (Tyonek)
22	Nikiski Middle / High School
23	Seward High School
24	Soldotna High School
25	Kenai Central High School
26	Ninilchik
27	Homer Flex
28	Nikolaevsk
30	Susan B. English
31	Hope
32	Cooper Landing
33	Nanwalek
34	Port Graham
35	Moose Pass
36	Homer High School
37	District Offices
38	Warehouse / Connections
LEASED	Voznesenka
LEASED	Kachemak Selo
LEASED	Razdolna Elementary
LEASED	Little Fireweed Academy

Cost of the Proposed Bond is approximately 0.28 mils or \$27.80 per \$100,000 of assessed value.

Request	Mill required to support request	est cost of proposal	Est \$ property taxpayer will pay to support request per \$100,000 assessed value
40M school bond/20 yr no debt reimbursement	0.37	\$3,100,000.00	\$36.83
30M school bond/20 yr no debt reimbursement	0.28	\$2,340,000.00	\$27.80
25M school bond/20 yr no debt reimbursement	0.23	\$1,950,000.00	\$23.16

The projects will be administered to remain eligible for State Reimbursement, if it becomes available in the future.

School Bond 2021



Total Bond Amount \$29,940,000

District and Community Wide Projects \$ 4,900,589

★ Site Specific Projects \$25,039,411

19 projects Impacting 38 of our 42 schools

Cost of the Proposed Bond is approximately 0.28 mils or \$27.80 per \$100,000 of assessed value.

