



# HVAC REPLACEMENT OPTIONS - CONCORD ELEMENTARY SCHOOL

27-Apr-22

ESTIMATED CONSTRUCTION COSTS: A/C OF ENTIRE BUILDING							
Trade	Area	Option 1		Option 2		Option 3	
		Direct Replacement		VAV RTUs		Geothermal (Vertical UV HP)	
		\$/sf	Estimate	\$/sf	Estimate	\$/sf	Estimate
Mechanical	60460.3	\$ 39	\$3,395,520	\$ 35	\$3,047,040	\$ 35	\$3,047,040
Electrical	60460.3	\$ 2	\$174,240	\$ 5	\$434,880	\$ 10	\$871,200
General Construction	60460.3	\$ 1.5	\$91,000	\$ 5	\$302,000	\$ 4	\$242,000
Sub-Total			\$3,660,760		\$3,783,920		\$4,160,240
30% Contingency and Fees			\$1,098,200		\$1,135,200		\$1,248,000
<b>Total</b>			\$4,758,960		\$4,919,120		\$5,408,240
<b>SYSTEM GRADES</b>							
Educational Environment			A		A		B
Indoor Air Quality			A		A		A
Energy Efficiency			B		B		A
Maintenance			B		B		A
<b>Life Cycle Cost (Mechanical Only)</b>			\$8,950,000		\$6,700,000		\$5,150,000
<b>Note:</b> Construction cost estimates are current pricing - escalation required for future years.							

# HVAC REPLACEMENT OPTIONS - CASS JR. HIGH SCHOOL

27-Apr-22

ESTIMATED CONSTRUCTION COSTS: A/C OF ENTIRE BUILDING							
Trade	Area	Option 1		Option 2		Option 3	
		Direct Replacement		Chiller/Boiler Uvs		Geothermal (Vertical UV HP)	
		\$/sf	Estimate	\$/sf	Estimate	\$/sf	Estimate
Mechanical	80485.2	\$ 35	\$4,056,480	\$ 38	\$4,403,520	\$ 35	\$4,056,480
Electrical	80485.2	\$ 2	\$231,840	\$ 5	\$578,880	\$ 5	\$578,880
General Construction	80485.2	\$ 1.5	\$121,000	\$ 4	\$322,000	\$ 4	\$322,000
Sub-Total			\$4,409,320		\$5,304,400		\$4,957,360
30% Contingency and Fees			\$1,323,000		\$1,591,000		\$1,487,000
<b>Total</b>			<b>\$5,732,320</b>		<b>\$6,895,400</b>		<b>\$6,444,360</b>
<b>SYSTEM GRADES</b>							
Educational Environment			C		C		B
Indoor Air Quality			B		B		A
Energy Efficiency			C		B		A
Maintenance			C		C		A
Life Cycle Cost (Mechanical Only)			\$10,500,000		\$7,550,000		\$6,700,000
<b>Note:</b> Construction cost estimates are current pricing - escalation required for future years.							