

9/30/2021

LS = Lump Sum LF = Lineal Feet EA = Each SF = Square Feet (E) = Existing

ARCHIE WILLIAMS H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY POOL 100-200 BLDG. MECHANICAL COST ESTIMATE

9/30/2021

Item	Units	Qty	Cost/Item	Total
POOL BLDG. DEMOLITION:				
Remove (E) Boiler, Pumps, Valves & Pipe	EA	1	4,000.00	\$4,000
POOL BLDG. NEW:				
Boiler, Pumps, Valves and Piping	EA	1	50,000.00	\$50,000
Roof Exhaust Fan with New Duct & Grille	EA	2	4,000.00	\$8,000
		Pool Bldg.-Total		\$62,000
BLDG. 100 DEMOLITION:				
Remove (E) Rooftop Package Unit	EA	2	1,000.00	\$2,000
Remove (E) Rooftop Furnace Unit	EA	1	1,000.00	\$1,000
Remove (E) Vertical Furnace	EA	5	1,000.00	\$5,000
Remove (E) Suspended Built-Up AH	EA	1	1,000.00	\$1,000
BLDG. 100 NEW:				
6 Ton Package Unit to Existing Duct	EA	1	15,000.00	\$15,000
8.5 Ton Package Unit to Existing Duct	EA	1	21,250.00	\$21,250
12.5 Ton Package Unit to Existing Duct	EA	1	31,250.00	\$31,250
Furnace/ CC & 3 Ton CU to Exist. Duct	EA	1	9,000.00	\$9,000
Furnace/ CC & 4 Ton CU to Exist. Duct	EA	4	12,000.00	\$48,000
Furnace/ CC & 5 Ton CU to Exist. Duct	EA	1	15,000.00	\$15,000
Roof Exhaust Fan with New Duct & Grille	EA	2	4,000.00	\$8,000
Air Balance	LS	1	10,000.00	\$10,000
New WiFi T-Stats and Programming	EA	9	1,000.00	\$9,000
Add for Duct Cleaning	LS	1	4,000.00	\$4,000
Add for Enhanced Option	EA	9	1,000.00	\$9,000
		Bldg. 100-Total		\$188,500
BLDG. 200 DEMOLITION:				
Remove (E) Vertical Furnace	EA	13	1,000.00	\$13,000
BLDG. 200 NEW:				
Furnace/ CC & 3 Ton CU to Exist. Duct	EA	11	9,000.00	\$99,000
Furnace/ CC & 4 Ton CU to Exist. Duct	EA	2	12,000.00	\$24,000
Roof Exhaust Fan with New Duct & Grille	EA	2	4,000.00	\$8,000
Air Balance	LS	1	14,000.00	\$14,000
New WiFi T-Stats and Programming	EA	13	1,000.00	\$13,000
Add for Duct Cleaning	LS	1	3,500.00	\$3,500
Add for Enhanced Option	EA	13	1,000.00	\$13,000
		Bldg. 200-Total		\$187,500

**ARCHIE WILLIAMS H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY 300-400 BLDG. MECHANICAL COST ESTIMATE**

9/30/2021

Item	Units	Qty	Cost/Item	Total
BLDG. 300 DEMOLITION:				
Remove (E) Vertical Furnace	EA	9	1,000.00	\$9,000
BLDG. 300 NEW:				
Furnace/ CC & 3 Ton CU to Exist. Duct	EA	4	9,000.00	\$36,000
Furnace/ CC & 4 Ton CU to Exist. Duct	EA	2	12,000.00	\$24,000
Furnace/ CC & 5 Ton CU to Exist. Duct	EA	3	15,000.00	\$45,000
Roof Exhaust Fan with New Duct & Grille	EA	2	4,000.00	\$8,000
Air Balance	LS	1	9,000.00	\$9,000
New WiFi T-Stats and Programming	EA	9	1,000.00	\$9,000
Add for Duct Cleaning	LS	1	3,000.00	\$3,000
Add for Enhanced Option	EA	9	1,000.00	\$9,000
		Bldg. 300-Total		\$152,000
BLDG. 400 DEMOLITION:				
Remove (E) Vertical Furnace	EA	9	1,000.00	\$9,000
Remove (E) Wall Mount Heat Pump	EA	6	1,000.00	\$6,000
BLDG. 400 NEW:				
Furnace/ CC & 3 Ton CU to Exist. Duct	EA	3	9,000.00	\$27,000
Furnace/ CC & 4 Ton CU to Exist. Duct	EA	4	12,000.00	\$48,000
Furnace/ CC & 5 Ton CU to Exist. Duct	EA	2	15,000.00	\$30,000
Wall Mount Bard Heat Pump Unit	EA	6	9,000.00	\$54,000
Roof Exhaust Fan with New Duct & Grille	EA	2	4,000.00	\$8,000
Air Balance	LS	1	9,000.00	\$9,000
New WiFi T-Stats and Programming	EA	15	1,000.00	\$15,000
Add for Duct Cleaning	LS	1	9,000.00	\$9,000
Add for Enhanced Option	EA	15	1,000.00	\$15,000
		Bldg. 400-Total		\$230,000

**ARCHIE WILLIAMS H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY 500-600 BLDG. MECHANICAL COST ESTIMATE**

9/30/2021

Item	Units	Qty	Cost/Item	Total
BLDG. 500 DEMOLITION:				
Remove (E) Rooftop Package Unit	EA	1	1,000.00	\$1,000
Remove (E) Rooftop Furnace Unit	EA	2	1,000.00	\$2,000
Remove (E) Suspended Radiant Heater	EA	4	300.00	\$1,200
Remove (E) Suspended Furnace Unit	EA	1	1,000.00	\$1,000
Remove (E) Roof Exhaust Fan	EA	5	400.00	\$2,000
Remove (E) Ceiling Exhaust Fan	EA	5	200.00	\$1,000
BLDG. 500 NEW:				
6 Ton Package Unit to Existing Duct	EA	1	15,000.00	\$15,000
5 Ton Package Unit w/ New Duct & Grilles	EA	4	25,000.00	\$100,000
7.5 Ton Package Unit w/ New Duct & Grilles	EA	1	37,500.00	\$37,500
Roof Exhaust Fan to Existing Duct	EA	5	2,000.00	\$10,000
Ceiling Exhaust Fan to Existing Duct	EA	5	1,000.00	\$5,000
Air Balance	LS	1	10,000.00	\$10,000
New WiFi T-Stats and Programming	EA	6	1,000.00	\$6,000
Add for Duct Cleaning	LS	1	2,000.00	\$2,000
Add for Enhanced Option	EA	6	1,000.00	\$6,000
		Bldg. 500-Total		\$199,700
BLDG. 600 DEMOLITION:				
Remove (E) Suspended Fan Coil Unit	EA	7	1,000.00	\$7,000
Remove (E) Condensing Unit	EA	7	1,000.00	\$7,000
Remove (E) Wall Mount Heat Pump	EA	3	1,000.00	\$3,000
BLDG. 600 NEW:				
Furnace/ CC to Existing Duct & 3 Ton CU	EA	6	9,000.00	\$54,000
Furnace/ CC to Existing Duct & 4 Ton CU	EA	1	12,000.00	\$12,000
3.5 Ton Wall Mount Heat Pump	EA	3	37,500.00	\$112,500
Roof Exhaust Fan w/ New Duct & Grilles	EA	1	4,000.00	\$4,000
Air Balance	LS	1	11,000.00	\$11,000
New WiFi T-Stats and Programming	EA	10	1,000.00	\$10,000
Add for Duct Cleaning	LS	1	15,000.00	\$15,000
Add for Enhanced Option	EA	10	1,000.00	\$10,000
		Bldg. 600-Total		\$245,500

ARCHIE WILLIAMS H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY 700-800-900 BLDG. MECHANICAL COST ESTIMATE

9/30/2021

Item	Units	Qty	Cost/Item	Total
BLDG. 700 DEMOLITION:				
Remove (E) Boiler, Pumps, Valves & Pipe	EA	1	4,000.00	\$4,000
Remove (E) Suspended Built-Up AH	EA	1	1,000.00	\$1,000
Remove (E) Floor Mount UV	EA	5	1,000.00	\$5,000
Remove (E) Wall Hydronic Radiant Heater	EA	2	400.00	\$800
Remove (E) Roof Exhaust Fan	EA	2	400.00	\$800
BLDG. 700 NEW:				
Boiler, Pumps, Valves & Piping	EA	1	50,000.00	\$50,000
12.5 Ton AH, Valves, Piping & CU	EA	1	50,000.00	\$50,000
3 Ton Unit Ventilator, Valves, Piping & CU	EA	1	12,000.00	\$12,000
5 Ton Unit Ventilator, Valves, Piping & CU	EA	4	20,000.00	\$80,000
Roof Exhaust Fan to Existing Duct	EA	2	2,000.00	\$4,000
Ductwork and Grilles to Lobby	LS	1	3,000.00	\$3,000
Air Balance	LS	1	8,000.00	\$8,000
New WiFi T-Stats and Programming	EA	6	1,000.00	\$6,000
Add for Duct Cleaning	LS	1	4,000.00	\$4,000
Add for Enhanced Option	EA	6	1,000.00	\$6,000
			Bldg. 700-Total	\$234,600
BLDG. 800 DEMOLITION:				
Remove (E) Rooftop Package Unit	EA	6	1,000.00	\$6,000
BLDG. 800 NEW:				
3 Ton Package Unit to Existing Duct	EA	6	7,500.00	\$45,000
Air Balance	LS	1	6,000.00	\$6,000
New WiFi T-Stats and Programming	EA	6	1,000.00	\$6,000
Add for Duct Cleaning	LS	1	10,000.00	\$10,000
Add for Enhanced Option	EA	6	1,000.00	\$6,000
			Bldg. 800-Total	\$79,000
BLDG. 900 DEMOLITION:				
No As-Builts	LS	1	15,000.00	\$15,000
BLDG. 900 NEW:				
No As-Builts	LS	1	200,000.00	\$200,000
				\$0
				\$0
				\$0
				\$0
				\$0
				\$0
				\$0
				\$0
				\$0
			Bldg. 900-Total	\$215,000

ARCHIE WILLIAMS H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY 1000-1100 BLDG. MECHANICAL COST ESTIMATE

9/30/2021

Item	Units	Qty	Cost/Item	Total
BLDG. 1000 DEMOLITION:				
Remove (E) Rooftop Package Unit	EA	3	1,000.00	\$3,000
Remove (E) suspended Unit Heater	EA	1	1,000.00	\$1,000
Remove (E) Ceiling Electric Heater	EA	1	400.00	\$400
Remove (E) Roof Exhaust Fan	EA	3	400.00	\$1,200
Remove (E) Ceiling Exhaust Fan	EA	2	200.00	\$400
BLDG. 1000 NEW:				
2.5 Ton Package Unit to Existing Duct	EA	1	6,250.00	\$6,250
10 Ton Package Unit to Existing Duct	EA	2	25,000.00	\$50,000
12.5 Ton Package Unit to Existing Duct	EA	1	25,000.00	\$25,000
Roof Exhaust Fan to Existing Duct	EA	3	2,000.00	\$6,000
Ceiling Exhaust Fan to Existing Duct	EA	2	1,000.00	\$2,000
Air Balance	LS	1	6,000.00	\$6,000
New WiFi T-Stats and Programming	EA	4	1,000.00	\$4,000
Add for Duct Cleaning	LS	1	3,000.00	\$3,000
Add for enhanced Option	EA	4	1,000.00	\$4,000
		Bldg. 1000-Total		\$112,250
BLDG. 1100 (LOCATION?) DEMOLITION:				
Remove (E) Suspended Furnace	EA	5	1,000.00	\$5,000
Remove (E) Roof Exhaust Fan	EA	1	400.00	\$400
BLDG. 1100 (LOCATION?) NEW:				
3 Ton Package Unit w/ New Duct & Grilles	EA	4	15,000.00	\$60,000
5 Ton Package Unit w/ New Duct & Grilles	EA	1	25,000.00	\$25,000
Rooftop Exhaust Fan to Existing Duct	EA	1	2,000.00	\$2,000
Air Balance	LS	1	6,000.00	\$6,000
New WiFi T-Stats and Programming	EA	5	1,000.00	\$5,000
Add for Duct Cleaning	LS	1	6,000.00	\$6,000
Add for Enhanced Option	EA	5	1,000.00	\$5,000
		Bldg. 1100-Total		\$114,400

ARCHIE WILLIAMS H.S. HVAC REPLACEMENT - P2110600ME
PRELIM. POOL-100-200 BLDG. ELECTRICAL & PLUMBING COST ESTIMATE
9/30/2021

Item	Units	Qty	Cost/Item	Total
POOL ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	750.00	\$750
POOL ELECTRICAL NEW:				
New Wire & Breaker for Mech. Equip.	LS	1	7,500.00	\$7,500
New Wire for Exhaust Fan	EA	2	750.00	\$1,500
			Pool-Total	\$9,750
POOL PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	1,500.00	\$1,500
POOL PLUMBING NEW:				
Reconnect Gas or Condensate	LS	1	3,000.00	\$3,000
			Pool-Total	\$4,500
BLDG. 100 ELECTRICAL DEMO:				
Electrical Disconnect	LS	1	5,000.00	\$5,000
BLDG. 100 ELECTRICAL NEW:				
New Elect & FA for Mech. Equip.	EA	9	6,000.00	\$54,000
New Wire for Exhaust Fan	EA	2	750.00	\$1,500
			Bldg. 100-Total	\$60,500
BLDG. 100 PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	3,000.00	\$3,000
BLDG. 100 PLUMBING NEW:				
Reconnect Gas or Condensate	EA	9	750.00	\$6,750
			Bldg. 100-Total	\$9,750
BLDG. 200 ELECTRICAL DEMO:				
Electrical Disconnect	LS	1	5,000.00	\$5,000
BLDG. 200 ELECTRICAL NEW:				
New Elect & FA for Mech. Equip.	EA	13	6,000.00	\$78,000
New Wire for Exhaust Fan	EA	2	750.00	\$1,500
			Bldg. 200-Total	\$84,500
BLDG. 200 PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	3,000.00	\$3,000
BLDG. 200 PLUMBING NEW:				
Reconnect Gas or Condensate	EA	13	750.00	\$9,750
			Bldg. 200-Total	\$12,750

ARCHIE WILLIAMS H.S. HVAC REPLACEMENT - P2110600ME
PRELIM. 300-400-500 BLDG. ELECTRICAL & PLUMBING COST ESTIMATE
9/30/2021

Item	Units	Qty	Cost/Item	Total
BLDG. 300 ELECTRICAL DEMO:				
Electrical Disconnect	LS	1	4,000.00	\$4,000
BLDG. 300 ELECTRICAL NEW:				
New Elect & FA for Mech. Equip.	EA	9	6,000.00	\$54,000
New Wire for Exhaust Fan	EA	2	750.00	\$1,500
		Bldg. 300-Total		\$59,500
BLDG. 300 PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	2,500.00	\$2,500
BLDG. 300 PLUMBING NEW:				
Reconnect Gas or Condensate	EA	9	750.00	\$6,750
		Bldg. 300-Total		\$9,250
BLDG. 400 ELECTRICAL DEMO:				
Electrical Disconnect	LS	1	5,000.00	\$5,000
BLDG. 400 ELECTRICAL NEW:				
New Elect & FA for Mech. Equip.	EA	15	6,000.00	\$90,000
New Wire for Exhaust Fan	EA	2	750.00	\$1,500
		Bldg. 400-Total		\$96,500
BLDG. 400 PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	4,000.00	\$4,000
BLDG. 400 PLUMBING NEW:				
Reconnect Gas or Condensate	EA	15	750.00	\$11,250
		Bldg. 400-Total		\$15,250
BLDG. 500 ELECTRICAL DEMO:				
Electrical Disconnect	LS	1	9,000.00	\$9,000
BLDG. 500 ELECTRICAL NEW:				
New Elect & FA for Mech. Equip.	EA	6	6,000.00	\$36,000
New Wire for Exhaust Fan	EA	10	750.00	\$7,500
		Bldg. 500-Total		\$52,500
BLDG. 500 PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	4,500.00	\$4,500
BLDG. 500 PLUMBING NEW:				
Reconnect Gas or Condensate	EA	6	750.00	\$4,500
		Bldg. 500-Total		\$9,000

ARCHIE WILLIAMS H.S. HVAC REPLACEMENT - P2110600ME
PRELIM. 600-700-800 BLDG. ELECTRICAL & PLUMBING COST ESTIMATE
9/30/2021

Item	Units	Qty	Cost/Item	Total
BLDG. 600 ELECTRICAL DEMO:				
Electrical Disconnect	LS	1	7,500.00	\$7,500
BLDG. 600 ELECTRICAL NEW:				
New Wire & Breaker for Mech. Equip.	EA	10	1,750.00	\$17,500
New Wire for Exhaust Fan	EA	1	750.00	\$750
		Bldg. 600-Total		\$25,750
BLDG. 600 PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	5,000.00	\$5,000
BLDG. 600 PLUMBING NEW:				
Reconnect Gas or Condensate	EA	10	750.00	\$7,500
		Bldg. 600-Total		\$12,500
BLDG. 700 ELECTRICAL DEMO:				
Electrical Disconnect	LS	1	7,000.00	\$7,000
BLDG. 700 ELECTRICAL NEW:				
New Elect & FA for Mech. Equip.	EA	7	6,000.00	\$42,000
New Wire for Exhaust Fan	EA	2	750.00	\$1,500
		Bldg. 700-Total		\$50,500
BLDG. 700 PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	3,000.00	\$3,000
BLDG. 700 PLUMBING NEW:				
Reconnect Gas or Condensate	EA	7	750.00	\$5,250
		Bldg. 700-Total		\$8,250
BLDG. 800 ELECTRICAL DEMO:				
Electrical Disconnect	LS	1	3,000.00	\$3,000
BLDG. 800 ELECTRICAL NEW:				
New Elect & FA for Mech. Equip.	EA	6	6,000.00	\$36,000
New Wire for Exhaust Fan	EA	0	750.00	\$0
		Bldg. 800-Total		\$39,000
BLDG. 800 PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	3,000.00	\$3,000
BLDG. 800 PLUMBING NEW:				
Reconnect Gas or Condensate	EA	6	750.00	\$4,500
		Bldg. 800-Total		\$7,500

ARCHIE WILLIAMS H.S. HVAC REPLACEMENT - P2110600ME
PRELIM. 900-1000-1100 BLDG. ELECTRICAL & PLUMBING COST ESTIMATE
9/30/2021

Item	Units	Qty	Cost/Item	Total
BLDG. 900 ELECTRICAL DEMO:				
Electrical Disconnect	LS	1	3,000.00	\$3,000
BLDG. 900 ELECTRICAL NEW:				
New Wire & Breaker for Mech. Equip.	LS	1	8,000.00	\$8,000
New Wire for Exhaust Fan	LS	1	3,000.00	\$3,000
		Bldg. 900-Total		\$14,000
BLDG. 900 PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	3,000.00	\$3,000
BLDG. 900 PLUMBING NEW:				
Reconnect Gas or Condensate	LS	1	6,000.00	\$6,000
		Bldg. 900-Total		\$9,000
BLDG. 1000 ELECTRICAL DEMO:				
Electrical Disconnect	LS	1	5,000.00	\$5,000
BLDG. 1000 ELECTRICAL NEW:				
New Elect & FA for Mech. Equip.	EA	4	6,000.00	\$24,000
New Wire for Exhaust Fan	EA	6	750.00	\$4,500
		Bldg. 1000-Total		\$33,500
BLDG. 1000 PLUMBING DEMO:				
Gas or Condensate Disconnect	LS	1	3,000.00	\$3,000
BLDG. 1000 PLUMBING NEW:				
Reconnect Gas or Condensate	EA	4	750.00	\$3,000
		Bldg. 1000-Total		\$6,000
BLDG. 1100 ELECTRICAL DEMO:				
Electrical Disconnect	LS	1	3,000.00	\$3,000
BLDG. 1100 ELECTRICAL NEW:				
New Elect & FA for Mech. Equip.	EA	5	6,000.00	\$30,000
New Wire for Exhaust Fan	EA	1	750.00	\$750
		Bldg. 1100-Total		\$33,750
BLDG. 1100 PLUMBING DEMO:				
Gas or Condensate Disconnect	LS	1	2,000.00	\$2,000
BLDG. 1100 PLUMBING NEW:				
Reconnect Gas or Condensate	EA	5	750.00	\$3,750
		Bldg. 1100-Total		\$5,750

ARCHIE WILLIAMS H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY ARCHITECTURE & GENERAL CONDITIONS COST ESTIMATE
9/30/2021

Item	Units	Qty	Cost/Item	Total
CLG., ROOF, WALL DEMO., PATCH				
& SITE PROTECTION:	LS	1	860,700.00	\$860,700
GENERAL ADMINISTRATION:				
Construction Management	LS	1	860,700.00	\$860,700
			Total	\$1,721,400

9/30/2021

LS = Lump Sum LF = Lineal Feet EA = Each SF = Square Feet (E) = Existing

REDWOOD H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY A BLDG. MECHANICAL COST ESTIMATE

9/30/2021

Item	Units	Qty	Cost/Item	Total
BLDG. A DEMOLITION:				
Remove (E) Boiler, Pump, Valves & Pipe	EA	2	4,000.00	\$8,000
Remove (E) Floor Mount UV, Valves & Pipe	EA	85	1,000.00	\$85,000
Remove (E) Baseboard/ Convactor Heaters	EA	35	1,000.00	\$35,000
Remove (E) Vertical Air handler	EA	1	1,000.00	\$1,000
Remove (E) Horizontal Air Handler	EA	3	1,000.00	\$3,000
Remove (E) Rooftop Air Handler	EA	1	1,000.00	\$1,000
Remove (E) Wall IDU with Foof ODU	EA	4	1,000.00	\$4,000
Remove (E) ceiling FC with roof ODU	EA	5	1,000.00	\$5,000
Remove (E) Roof Exhaust Fan	EA	104	400.00	\$41,600
Remove (E) Ceiling Exhaust Fan	EA	6	200.00	\$1,200
BLDG. A NEW:				
Boiler, Pumps, Valves & Piping	EA	2	50,000.00	\$100,000
2 Ton Floor UV w/ CU on Roof	EA	13	6,000.00	\$78,000
4 Ton Floor UV w/ CU on Roof	EA	54	12,000.00	\$648,000
5 Ton Floor UV w/ CU on Roof	EA	11	15,000.00	\$165,000
6 Ton Floor UV w/ CU on Roof	EA	7	18,000.00	\$126,000
Attic FC w/ BS Box, Ducts, Grilles & Piping	EA	35	4,000.00	\$140,000
8 Ton CU w/ Valves & Piping	EA	4	24,000.00	\$96,000
3 Ton Vertical AH & CU to Existing Ducts	EA	1	12,000.00	\$12,000
10 Ton Horizontal AH & CU to Existing Ducts	EA	1	40,000.00	\$40,000
5 Ton Horizontal AH & CU to Existing Ducts	EA	1	20,000.00	\$20,000
15 Ton Horizontal AH & CU to Existing ducts	EA	1	60,000.00	\$60,000
5 Ton Rooftop AC Unit to Existing Ducts	EA	1	15,000.00	\$15,000
0.75 Ton Wall IDU & Roof ODU	EA	2	3,000.00	\$6,000
2 Ton Wall IDU & Roof ODU	EA	2	6,000.00	\$12,000
5 Ton Ceiling FC & Roof CU	EA	2	3,000.00	\$6,000
Outside Air Ducting to FC's	LS	1	20,000.00	\$20,000
Roof Exhaust Fan to Existing Duct	EA	104	2,000.00	\$208,000
Ceiling Exhaust Fan to Existing Duct	EA	6	1,000.00	\$6,000
Air Balance	LS	1	200,000.00	\$200,000
New WiFi T-Stats and Programming	EA	134	1,000.00	\$134,000
Add for Duct Cleaning	LS	1	10,000.00	\$10,000
Add for Enhanced Option	EA	134	1,000.00	\$134,000
			Bldg. A-Total	\$2,420,800

REDWOOD H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY B-C BLDG. MECHANICAL COST ESTIMATE

9/30/2021

Item	Units	Qty	Cost/Item	Total
BLDG. B DEMOLITION:				
Remove (E) Wall Bard Heat Pump	EA	3	1,000.00	\$3,000
BLDG. B NEW:				
4 Ton Wall Bard Heat Pump Unit	EA	3	10,000.00	\$30,000
			Bldg. B-Total	\$33,000
BLDG. C DEMOLITION:				
Remove (E) Boiler, Pump, Valves & Pipe	EA	1	4,000.00	\$4,000
Remove (E) Floor Mount UV, Valves & Pipe	EA	1	1,000.00	\$1,000
Remove (E) Suspended Unit Heater	EA	4	1,000.00	\$4,000
Remove (E) Wall IDU with Roof ODU	EA	2	1,000.00	\$2,000
Remove (E) Roof Exhaust Fan	EA	7	400.00	\$2,800
BLDG. C NEW:				
5 Ton Floor Fan Coils, BS Boxes & Piping	EA	4	20,000.00	\$80,000
2 Ton Attic VRF FC, Duct, Grilles & Piping	EA	5	8,000.00	\$40,000
30 Ton Ground VRF CU, BS Boxes & Pipe	EA	1	90,000.00	\$90,000
Roof Exhaust Fan to Existing Duct	EA	7	2,000.00	\$14,000
Air Balance	LS	1	12,000.00	\$12,000
New WiFi T-Stats and Programming	EA	9	1,000.00	\$9,000
Add for Enhanced Option	EA	9	1,000.00	\$9,000
			Bldg. C-Total	\$267,800

REDWOOD H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY E-F BLDG. MECHANICAL COST ESTIMATE

9/30/2021

Item	Units	Qty	Cost/Item	Total
BLDG. E DEMOLITION:				
Remove (E) Wall Bard Heat Pump	EA	4	1,000.00	\$4,000
Remove (E) Rooftop Heat Pump Unit	EA	2	1,000.00	\$2,000
Remove (E) Rooftop Package Unit	EA	2	1,000.00	\$2,000
Remove (E) Roof or In-line Exhaust Fan	EA	9	400.00	\$3,600
BLDG. E NEW:				
3.5 Ton Wall Bard Heat Pump Unit	EA	4	9,000.00	\$36,000
5 Ton Roof Heat Pump to Existing Duct	EA	1	15,000.00	\$15,000
8.5 Ton Roof AC Unit to Existing Duct	EA	1	25,500.00	\$25,500
10 Ton Roof AC Unit to Existing Duct	EA	1	30,000.00	\$30,000
Roof or In-line Exhaust Fan to Existing Duct	EA	9	2,000.00	\$18,000
Air Balance	LS	1	11,000.00	\$11,000
New WiFi T-Stats and Programming	EA	7	1,000.00	\$7,000
Add for Duct Cleaning	LS	1	9,000.00	\$9,000
Add for Enhanced Option	EA	7	1,000.00	\$7,000
			Bldg. E-Total	\$170,100
BLDG. F DEMOLITION:				
Remove (E) Boiler, Pump, Valves & Pipe	EA	2	4,000.00	\$8,000
Remove (E) Rooftop Heating Unit	EA	1	2,000.00	\$2,000
Remove (E) Roof Exhaust Fan	EA	3	400.00	\$1,200
BLDG. F NEW:				
Boiler, Pumps, Valves & Piping	EA	2	50,000.00	\$100,000
25 Ton Roof AC Unit to Existing Duct	EA	1	75,000.00	\$75,000
Roof Exhaust Fan to Existing Duct	EA	3	2,000.00	\$6,000
Air Balance	LS	1	4,000.00	\$4,000
New WiFi T-Stats and Programming	EA	1	1,000.00	\$1,000
Add for Duct Cleaning	LS	1	4,000.00	\$4,000
Add for Enhanced Option	EA	1	1,000.00	\$1,000
			Bldg. F-Total	\$202,200

REDWOOD H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY BLDG. G-RELOCATABLE BLDG. MECHANICAL COST ESTIMATE

9/30/2021

Item	Units	Qty	Cost/Item	Total
BLDG. G DEMOLITION:				
Remove (E) Boiler, Pump, Valves & Pipe	EA	2	4,000.00	\$8,000
Remove (E) floor mount UV, Valves & Pipe	EA	8	1,000.00	\$8,000
Remove (E) horizontal Air Handler	EA	1	1,000.00	\$1,000
Remove (E) suspended Unit Heater	EA	13	1,000.00	\$13,000
Remove (E) Wall Bard Heat Pump	EA	2	1,000.00	\$2,000
Remove (E) Roof or Wall Exhaust Fans	EA	21	400.00	\$8,400
BLDG. G NEW:				
Boiler, Pumps, Valves & Piping	EA	2	40,000.00	\$80,000
4 Ton floor UV w/ CU on Roof	EA	4	12,000.00	\$48,000
5 Ton floor UV w/ CU on Roof	EA	4	15,000.00	\$60,000
5 Ton horizontal AH & CU to new ducts	EA	6	25,000.00	\$150,000
3 Ton horizontal AH & CU to new ducts	EA	1	15,000.00	\$15,000
30 Ton Roof AC Unit w/ Duct & Grilles	EA	2	135,000.00	\$270,000
4 Ton Wall Bard Heat Pump Unit	EA	2	10,000.00	\$20,000
Roof or Wall Exhaust Fan to existing duct	EA	21	2,000.00	\$42,000
Air Balance	LS	1	35,000.00	\$35,000
New WiFi T-Stats and programming	EA	19	1,000.00	\$19,000
Add for Duct Cleaning	LS	1	4,000.00	\$4,000
Add for enhanced Option	EA	19	1,000.00	\$19,000
			Bldg. G-Total	\$802,400
RELOCATABLES DEMOLITION:				
Remove (E) Wall Bard Heat Pump	EA	7	1,000.00	\$7,000
RELOCATABLES NEW:				
3.5 Ton Wall Bard Heat Pump Unit	EA	7	9,000.00	\$63,000
Air Balance	LS	1	7,000.00	\$7,000
New WiFi T-Stats and Programming	EA	7	1,000.00	\$7,000
Add for Duct Cleaning	LS	1	9,000.00	\$9,000
Add for Enhanced Option	EA	7	1,000.00	\$7,000
			Relocatables-Total	\$100,000

REDWOOD H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY SITE-A-B-C ELECTRICAL & PLUMBING COST ESTIMATE
9/30/2021

Item	Units	Qty	Cost/Item	Total
SITE:				
New Main Service	LS	1	400,000.00	\$400,000
			Site-Total	\$400,000
BLDG. A ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	25,000.00	\$25,000
BLDG. A ELECTRICAL NEW:				
New Elect & FA for Mech. Equip.	LS	1	400,000.00	\$400,000
New Wire for Exhaust Fan	EA	104	750.00	\$78,000
			Bldg. A-Total	\$503,000
BLDG. A PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	20,000.00	\$20,000
BLDG. A PLUMBING NEW:				
Reconnect Gas or Condensate	LS	1	50,000.00	\$50,000
			Bldg. A-Total	\$70,000
BLDG. B ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	1,000.00	\$1,000
BLDG. B ELECTRICAL NEW:				
New Wire & Breaker for Mech. Equip.	EA	3	1,750.00	\$5,250
New Wire for Exhaust Fan	EA	0	750.00	\$0
			Bldg. B-Total	\$6,250
BLDG. B PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	3,000.00	\$3,000
BLDG. B PLUMBING NEW:				
Reconnect Gas or Condensate	EA	3	750.00	\$2,250
New Condensate to Mech. Unit	EA	0	1,000.00	\$0
			Bldg. B-Total	\$5,250
BLDG. C ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	7,500.00	\$7,500
BLDG. C ELECTRICAL NEW:				
New Elect & FA for Mech. Equip.	EA	10	6,000.00	\$60,000
New Wire for Exhaust Fan	EA	7	750.00	\$5,250
			Bldg. C-Total	\$72,750
BLDG. C PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	750.00	\$750
BLDG. C PLUMBING NEW:				
Reconnect Gas or Condensate	EA	0	750.00	\$0
New Condensate to Mech. Unit	EA	10	1,000.00	\$10,000
			Bldg. C-Total	\$10,750

REDWOOD H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY E-F-G ELECTRICAL & PLUMBING COST ESTIMATE
9/30/2021

Item	Units	Qty	Cost/Item	Total
BLDG. E ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	3,000.00	\$3,000
BLDG. E ELECTRICAL NEW:				
New Elect & FA for Mech. Equip.	EA	7	6,000.00	\$42,000
New Wire for Exhaust Fan	EA	9	750.00	\$6,750
			Bldg. E-Total	\$51,750
BLDG. E PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	2,000.00	\$2,000
BLDG. E PLUMBING NEW:				
Reconnect Gas or Condensate	EA	8	750.00	\$6,000
			Bldg. E-Total	\$8,000
BLDG. F ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	2,500.00	\$2,500
BLDG. F ELECTRICAL NEW:				
New Wire & Breaker for Mech. Equip.	EA	3	1,750.00	\$5,250
New Wire for Exhaust Fan	EA	3	750.00	\$2,250
			Bldg. F-Total	\$10,000
BLDG. F PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	1,000.00	\$1,000
BLDG. F PLUMBING NEW:				
Reconnect Gas or Condensate	EA	3	750.00	\$2,250
			Bldg. F-Total	\$3,250
BLDG. G ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	18,000.00	\$18,000
BLDG. G ELECTRICAL NEW:				
New Elect & FA for Mech. Equip.	EA	21	6,000.00	\$126,000
New Wire for Exhaust Fan	EA	21	750.00	\$15,750
			Bldg. G-Total	\$159,750
BLDG. G PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	3,000.00	\$3,000
BLDG. G PLUMBING NEW:				
Reconnect Gas or Condensate	EA	21	750.00	\$15,750
			Bldg. G-Total	\$18,750

REDWOOD H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY RELOCATABLES ELECTRICAL & PLUMBING COST ESTIMATE
9/30/2021

Item	Units	Qty	Cost/Item	Total
RELO. ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	3,000.00	\$3,000
RELO. ELECTRICAL NEW:				
New Wire & Breaker for Mech. Equip.	EA	7	1,750.00	\$12,250
New Wire for Exhaust Fan	EA	0	750.00	\$0
			Relo.-Total	\$15,250
RELO. PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	1,500.00	\$1,500
RELO. PLUMBING NEW:				
Reconnect Gas or Condensate	EA	7	750.00	\$5,250
			Relo.-Total	\$6,750

REDWOOD H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY ARCHITECTURE & GENERAL CONDITIONS COST ESTIMATE
9/30/2021

Item	Units	Qty	Cost/Item	Total
CLG., ROOF, WALL DEMO., PATCH				
& SITE PROTECTION:	LS	1	1,708,100.00	\$1,708,100
GENERAL ADMINISTRATION:				
Construction Management	LS	1	1,708,100.00	\$1,708,100
			Total	\$3,416,200

TAMALPAIS H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY TOTAL COST ESTIMATE

9/30/2021

Item	Units	Qty	Cost/Item	Total
SITE ELECT. & POOL BUILDING:				\$0
Total Cost for Site Elect. & Pool Building	LS	1	529,000.00	\$529,000
A BUILDING:				\$0
Total Cost for A Building	LS	1	234,000.00	\$234,000
B BUILDING:				\$0
Total Cost for B Building	LS	1	213,300.00	\$213,300
C BUILDING:				\$0
Total Cost for C Building	LS	1	480,550.00	\$480,550
E BUILDING:				\$0
Total Cost for E Building	LS	1	492,700.00	\$492,700
F BUILDING:				\$0
Total Cost for F Building	LS	1	147,500.00	\$147,500
G BUILDING:				\$0
Total Cost for G Building	LS	1	755,900.00	\$755,900
H BUILDING:				\$0
Total Cost for H Building	LS	1	490,000.00	\$490,000
J BUILDING:				\$0
Total Cost for J Building	LS	1	46,750.00	\$46,750
K BUILDING:				\$0
Total Cost for K Building	LS	1	87,200.00	\$87,200
L BUILDING:				\$0
Total Cost for L Building	LS	1	168,950.00	\$168,950
M BUILDING:				\$0
Total Cost for M Building	LS	1	304,600.00	\$304,600
N BUILDING:				\$0
Total Cost for N Building	LS	1	212,800.00	\$212,800
P BUILDING:				\$0
Total Cost for P Building	LS	1	305,750.00	\$305,750
R BUILDING:				\$0
Total Cost for R Building	LS	1	233,250.00	\$233,250
U BUILDING:				\$0
Total Cost for U Building	LS	1	26,500.00	\$26,500
FIELD HOUSE BUILDING:				\$0
Total Cost for FIELD HOUSE Building	LS	1	38,500.00	\$38,500
ARCH. & GENERAL ADMINISTRATION	LS	1	3,051,040.00	\$3,051,040
			Sub-Total	\$7,818,290
			Area Adjustment 8%	\$625,463
			Contingency 10%	\$781,829
			Contractor Profit 10%	\$781,829
			TOTAL	\$10,007,411

LS = Lump Sum LF = Lineal Feet EA = Each SF = Square Feet (E) = Existing

TAMALPAIS H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY POOL-A-B BLDG. MECHANICAL COST ESTIMATE

9/30/2021

Item	Units	Qty	Cost/Item	Total
POOL BLDG. DEMOLITION:				
Remove (E) Boiler, Pumps, Valves & Pipe	EA	2	4,000.00	\$8,000
POOL BLDG. NEW:				
1800 MBH Boiler, Pumps, Valves and Piping	EA	2	50,000.00	\$100,000
Roof Exhaust Fan with New Duct & Grille	EA	2	4,000.00	\$8,000
			Pool Bldg.-Total	\$116,000
BLDG. A DEMOLITION:				
Remove (E) Vertical Furnace	EA	4	1,000.00	\$4,000
BLDG. A NEW:				
Furnace/ CC to Existing Duct & 15 Ton CU	EA	4	45,000.00	\$180,000
Air Balance	LS	1	4,000.00	\$4,000
New WiFi T-Stats and Programming	EA	4	1,000.00	\$4,000
Add for Duct Cleaning	LS	1	6,000.00	\$6,000
Add for Enhanced Option	EA	4	1,000.00	\$4,000
			Bldg. A-Total	\$202,000
BLDG. B DEMOLITION:				
Remove (E) Rooftop Furnace	EA	3	1,000.00	\$3,000
Remove (E) Suspended Furnace	EA	1	1,000.00	\$1,000
Remove (E) Roof Exhaust Fan	EA	7	400.00	\$2,800
BLDG. B NEW:				
7.5 Ton Package Unit w/ New Duct & Grilles	EA	3	37,500.00	\$112,500
Furnace/ CC & 4 Ton CU to Exist. Duct	EA	1	12,000.00	\$12,000
Roof Exhaust Fan to Existing Duct	EA	7	2,000.00	\$14,000
Air Balance	LS	1	7,000.00	\$7,000
New WiFi T-Stats and Programming	EA	4	1,000.00	\$4,000
Add for Duct Cleaning	LS	1	9,000.00	\$9,000
Add for Enhanced Option	EA	4	1,000.00	\$4,000
			Bldg. B-Total	\$165,300

TAMALPAIS H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY C-E BLDG. MECHANICAL COST ESTIMATE

9/30/2021

Item	Units	Qty	Cost/Item	Total
BLDG. C DEMOLITION:				
Remove (E) Rooftop Furnace	EA	1	1,000.00	\$1,000
Remove (E) Suspended Furnace	EA	1	1,000.00	\$1,000
Remove (E) Wall or Roof Exhaust Fan	EA	12	400.00	\$4,800
Remove Floor Mount UV	EA	8	1,000.00	\$8,000
Remove (E) Boiler, Pumps, Valves & Pipe	EA	1	4,000.00	\$4,000
BLDG. C NEW:				
12.5 Ton Package Unit w/ New Duct & Grilles	EA	1	62,500.00	\$62,500
Furnace/ CC & 3 Ton CU to Exist. Duct	EA	1	9,000.00	\$9,000
Roof or Wall Exhaust Fan to Exist. Duct	EA	12	2,000.00	\$24,000
Floor Mount UV & 4 Ton CU	EA	1	12,000.00	\$12,000
Floor Mount UV & 5 Ton CU	EA	7	15,000.00	\$105,000
1000 MBH Boiler, Pumps, Valves & Piping	EA	1	40,000.00	\$40,000
Air Balance	LS	1	12,000.00	\$12,000
New WiFi T-Stats and Programming	EA	10	1,000.00	\$10,000
Add for Duct Cleaning	LS	1	3,000.00	\$3,000
Add for Enhanced Option	EA	10	1,000.00	\$10,000
			Bldg. C-Total	\$306,300
BLDG. E DEMOLITION:				
Remove (E) Vertical Furnace	EA	10	1,000.00	\$10,000
Remove (E) Wall Mount IDU/ ODU	EA	1	1,000.00	\$1,000
Remove (E) Boiler, Pump, Valves & Pipe	EA	1	4,000.00	\$4,000
Remove (E) Wall Mount Electric Heaters	EA	2	400.00	\$800
Remove (E) Roof or In-Line Exhaust Fan	EA	4	400.00	\$1,600
Remove (E) Ceiling Exhaust Fan	EA	4	200.00	\$800
Remove (E) MZ AH, Valves & Piping	EA	1	2,000.00	\$2,000
BLDG. E NEW:				
Furnace/ CC & 3 Ton CU to Exist. Duct	EA	3	9,000.00	\$27,000
Furnace/ CC & 4 Ton CU to Exist. Duct	EA	7	12,000.00	\$84,000
Furnace/ CC & 5 Ton CU to Exist. Duct	EA	1	15,000.00	\$15,000
New Duct & Grilles to Offices	LS	1	2,000.00	\$2,000
350 MBH Boiler, Pumps, Valves & Piping	EA	1	25,000.00	\$25,000
Wall mount 3 Ton IDU/ ODU	EA	1	9,000.00	\$9,000
Wall or In-Line Exhaust Fan to Existing Duct	EA	4	2,000.00	\$8,000
Ceiling Exhaust Fan to Existing Duct	EA	4	1,000.00	\$4,000
MZ AH, Valves & Piping w/ 25 Ton CU	EA	1	75,000.00	\$75,000
Air Balance	LS	1	20,000.00	\$20,000
New WiFi T-Stats and Programming	EA	13	1,000.00	\$13,000
Add for Duct Cleaning	LS	1	25,000.00	\$25,000
Add for Enhanced Option	EA	13	1,000.00	\$13,000
			Bldg. E-Total	\$340,200

TAMALPAIS H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY F-G BLDG. MECHANICAL COST ESTIMATE

9/30/2021

Item	Units	Qty	Cost/Item	Total
BLDG. F DEMOLITION:				
Remove (E) Vertical Furnace	EA	6	1,000.00	\$6,000
Remove Cooling Coil & Condensing Unit	EA	4	1,000.00	\$4,000
Remove (E) Wall Mount IDU/ ODU	EA	1	1,000.00	\$1,000
BLDG. F NEW:				
Furnace/ CC to Existing Duct & 3 Ton CU	EA	1	9,000.00	\$9,000
Furnace/ CC to Existing Duct & 4 Ton CU	EA	4	12,000.00	\$48,000
Furnace/ CC to Existing Duct & 5 Ton CU	EA	1	15,000.00	\$15,000
3 Ton Wall Mount IDU/ ODU	EA	1	9,000.00	\$9,000
Air Balance	LS	1	7,000.00	\$7,000
New WiFi T-Stats and Programming	EA	6	1,000.00	\$6,000
Add for Duct Cleaning	LS	1	8,000.00	\$8,000
Add for Enhanced Option	EA	6	1,000.00	\$6,000
			Bldg. F-Total	\$119,000
BLDG. G DEMOLITION:				
Remove (E) Vertical Furnace	EA	27	1,000.00	\$27,000
Remove Cooling Coil & Condensing Unit	EA	3	1,000.00	\$3,000
Remove (E) Wall Mount IDU/ ODU	EA	4	1,000.00	\$4,000
Remove (E) Roof or In-Line Exhaust Fan	EA	14	400.00	\$5,600
Remove (E) Ceiling Exhaust Fan	EA	7	200.00	\$1,400
BLDG. G NEW:				
Furnace/ CC to Existing Duct & 3 Ton CU	EA	1	9,000.00	\$9,000
Furnace/ CC to Existing Duct & 4 Ton CU	EA	1	12,000.00	\$12,000
Furnace/ CC to Existing Duct & 5 Ton CU	EA	22	15,000.00	\$330,000
3 Ton Wall Mount IDU/ ODU	EA	4	9,000.00	\$36,000
Roof or In-Line Exhaust Fan to Existing Duct	EA	14	2,000.00	\$28,000
Ceiling Exhaust Fan to Existing Duct	EA	7	1,000.00	\$7,000
Air Balance	LS	1	35,000.00	\$35,000
New WiFi T-Stats and Programming	EA	28	1,000.00	\$28,000
Add for Duct Cleaning	LS	1	40,000.00	\$40,000
Add for Enhanced Option	EA	28	1,000.00	\$28,000
			Bldg. G-Total	\$554,400

TAMALPAIS H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY H-J-K BLDG. MECHANICAL COST ESTIMATE

9/30/2021

Item	Units	Qty	Cost/Item	Total
BLDG. H DEMOLITION:				\$0
Remove (E) Floor UV, Valves & Pipe	EA	8	1,000.00	\$8,000
Remove (E) Wall Convactor	EA	7	400.00	\$2,800
Remove (E) Roof or In-Line Exhaust Fans	EA	13	400.00	\$5,200
Remove (E) Ceiling Exhaust Fans	EA	5	200.00	\$1,000
BLDG. H NEW:				
HW UV/ CC to Existing Duct & 4 Ton CU	EA	4	12,000.00	\$48,000
HW UV/ CC to Existing Duct & 5 Ton CU	EA	4	15,000.00	\$60,000
1 Ton VRF Fan Coils & Piping w/ BSB	EA	7	4,000.00	\$28,000
8 Ton VRF CU, Valves & Piping	EA	4	24,000.00	\$96,000
Roof or In-Line Exhaust Fan to Existing Duct	EA	13	2,000.00	\$26,000
Ceiling Exhaust Fan to Existing Duct	EA	5	1,000.00	\$5,000
Air Balance	LS	1	18,000.00	\$18,000
New WiFi T-Stats and Programming	EA	15	1,000.00	\$15,000
Add for Duct Cleaning	LS	1	10,000.00	\$10,000
Add for Enhanced Option	EA	15	1,000.00	\$15,000
			Bldg. H-Total	\$338,000
BLDG. J DEMOLITION:				
Remove (E) Suspended Unit Heaters	EA	2	1,000.00	\$2,000
BLDG. J NEW:				
Furnace/ CC to New Duct & 3 Ton CU	EA	2	12,000.00	\$24,000
Air Balance	LS	1	2,000.00	\$2,000
New WiFi T-Stats and Programming	EA	2	1,000.00	\$2,000
Add for Enhanced Option	EA	2	1,000.00	\$2,000
			Bldg. J-Total	\$32,000
BLDG. K DEMOLITION:				
Remove (E) Suspended Unit Heaters	EA	1	1,000.00	\$1,000
Remove (E) Vertical Furnace	EA	1	1,000.00	\$1,000
Remove (E) Suspended Air Cleaners	EA	2	1,000.00	\$2,000
Remove (E) Roof Exhaust Fan	EA	1	400.00	\$400
BLDG. K NEW:				
Furnace/ CC to New Duct & 3 Ton CU	EA	1	12,000.00	\$12,000
Furnace/ CC to Existing Duct & 8.5 Ton CU	EA	1	25,500.00	\$25,500
Suspended Air Cleaner	EA	2	4,000.00	\$8,000
Roof Exhaust Fan to Existing Duct	EA	4	2,000.00	\$8,000
Air Balance	LS	1	3,000.00	\$3,000
New WiFi T-Stats and Programming	EA	2	1,000.00	\$2,000
Add for Duct Cleaning	LS	1	2,000.00	\$2,000
Add for Enhanced Option	EA	2	1,000.00	\$2,000
			Bldg. H-Total	\$66,900

TAMALPAIS H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY L-M BLDG. MECHANICAL COST ESTIMATE

9/30/2021

Item	Units	Qty	Cost/Item	Total
BLDG. L DEMOLITION:				
Remove (E) Suspended Unit Heater	EA	1	1,000.00	\$1,000
Remove (E) Vertical Furnace	EA	2	1,000.00	\$2,000
Remove (E) Wall Electric Heater	EA	1	400.00	\$400
Remove (E) Sawdust Collection System	EA	1	1,000.00	\$1,000
Remove (E) Roof or Wall Exhaust Fan	EA	2	400.00	\$800
BLDG. L NEW:				
Furnace/ CC to New Duct & 4 Ton CU	EA	1	16,000.00	\$16,000
Furnace/ CC to Existing Duct & 7.5 Ton CU	EA	2	22,500.00	\$45,000
1 Ton Fan Coils & Piping	EA	2	2,000.00	\$4,000
2 Ton CU, Valves & Piping	EA	1	6,000.00	\$6,000
5050 Sawdust Collection Sys to Exist. Duct	EA	1	20,000.00	\$20,000
Roof or Wall Exhaust Fan to Existing Duct	EA	2	2,000.00	\$4,000
Air Balance	LS	1	6,000.00	\$6,000
New WiFi T-Stats and Programming	EA	5	1,000.00	\$5,000
Add for Duct Cleaning	LS	1	3,000.00	\$3,000
Add for Enhanced Option	EA	5	1,000.00	\$5,000
			Bldg. L-Total	\$119,200
BLDG. M DEMOLITION:				
Remove (E) Suspended Furnace	EA	5	1,000.00	\$5,000
Remove (E) Vertical Furnace	EA	4	1,000.00	\$4,000
Remove (E) Wall IDU/ ODU	EA	1	1,000.00	\$1,000
Remove (E) Vehicle Exhaust Fan & Reels	EA	1	1,000.00	\$1,000
Remove (E) Roof or In-Line Exhaust Fan	EA	4	400.00	\$1,600
BLDG. M NEW:				
Furnace/ CC to New Duct & 3 Ton CU	EA	5	12,000.00	\$60,000
Furnace/ CC to Existing Duct & 3 Ton CU	EA	1	9,000.00	\$9,000
Furnace/ CC to Existing Duct & 5 Ton CU	EA	2	15,000.00	\$30,000
Furnace/ CC to Existing Duct & 7.5 Ton CU	EA	1	22,500.00	\$22,500
Furnace/ CC to Existing Duct & 8.5 Ton CU	EA	1	22,500.00	\$22,500
1.5 Ton Wall IDU/ ODU	EA	1	4,500.00	\$4,500
1600 CFM Vehicle Exhaust Fan & Reels	EA	1	6,000.00	\$6,000
Roof or In-Line Exhaust Fan to Existing Duct	EA	2	2,000.00	\$4,000
Air Balance	LS	1	10,000.00	\$10,000
New WiFi T-Stats and Programming	EA	11	1,000.00	\$11,000
Add for Duct Cleaning	LS	1	8,000.00	\$8,000
Add for Enhanced Option	EA	11	1,000.00	\$11,000
			Bldg. M-Total	\$211,100

TAMALPAIS H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY N-P BLDG. MECHANICAL COST ESTIMATE

9/30/2021

Item	Units	Qty	Cost/Item	Total
BLDG. N DEMOLITION:				
Remove (E) Suspended Furnace	EA	5	1,000.00	\$5,000
Remove (E) Vertical Furnace	EA	4	1,000.00	\$4,000
Remove (E) Wall Exhaust Fan	EA	1	400.00	\$400
Remove (E) Ceiling Exhaust Fan	EA	2	200.00	\$400
BLDG. N NEW:				
Furnace/ CC to Existing Duct & 3 Ton CU	EA	9	9,000.00	\$81,000
Wall Exhaust Fan to Existing Duct	EA	1	2,000.00	\$2,000
Ceiling Exhaust Fan to Existing Duct	EA	2	1,000.00	\$2,000
Air Balance	LS	1	10,000.00	\$10,000
New WiFi T-Stats and Programming	EA	9	1,000.00	\$9,000
Add for Duct Cleaning	LS	1	12,000.00	\$12,000
Add for Enhanced Option	EA	9	1,000.00	\$9,000
			Bldg. N-Total	\$134,800
BLDG. P DEMOLITION:				
Remove (E) Floor Mount UV	EA	5	1,000.00	\$5,000
Remove (E) Boiler, Pumps, Valves & Pipe	EA	1	4,000.00	\$4,000
Remove (E) Make-Up Air Unit	EA	1	2,000.00	\$2,000
Remove (E) Air Handler, Valves & Pipe	EA	2	1,000.00	\$2,000
Remove (E) Roof Condensing Unit	EA	2	1,000.00	\$2,000
Remove (E) In-Line Exhaust Fan	EA	1	400.00	\$400
Remove (E) Ceiling Exhaust Fan	EA	4	400.00	\$1,600
Remove (E) Wall Bard Heat Pump	EA	2	1,000.00	\$2,000
BLDG. P NEW:				
Unit Ventilator/ CC & 5 Ton CU	EA	5	15,000.00	\$75,000
1000 MBH Boiler, Pumps, Valves & Piping	EA	1	40,000.00	\$40,000
2900 CFM Floor Mount Make-Up Air Unit	EA	1	12,000.00	\$12,000
AH/ CC to Existing Duct & 5 Ton CU	EA	2	15,000.00	\$30,000
In-Line Exhaust Fan to Existing Duct	EA	1	2,000.00	\$2,000
Ceiling Exhaust Fan to Existing Duct	EA	2	1,000.00	\$2,000
3.5 Ton Wall Bard Heat Pump Unit	EA	2	9,000.00	\$18,000
Air Balance	LS	1	10,000.00	\$10,000
New WiFi T-Stats and Programming	EA	11	1,000.00	\$11,000
Add for Duct Cleaning	LS	1	8,000.00	\$8,000
Add for Enhanced Option	EA	11	1,000.00	\$11,000
			Bldg. P-Total	\$238,000

TAMALPAIS H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY R-U BLDG.-FIELD HOUSE MECHANICAL COST ESTIMATE
9/30/2021

Item	Units	Qty	Cost/Item	Total
BLDG. R DEMOLITION:				
Remove (E) Floor Mount UV	EA	1	1,000.00	\$1,000
Remove (E) Make-Up Air Unit	EA	1	2,000.00	\$2,000
Remove (E) Roof Condensing Unit	EA	1	1,000.00	\$1,000
Remove (E) Attic VAV w/ Re-Heat Coil	EA	5	300.00	\$1,500
Remove (E) Wall IDU/ ODU	EA	1	1,000.00	\$1,000
Remove (E) Roof Exhaust Fan	EA	2	400.00	\$800
Remove (E) Ceiling Exhaust Fan	EA	4	200.00	\$800
BLDG. R NEW:				
Unit Ventilator/ CC & 5 Ton CU	EA	5	15,000.00	\$75,000
5580 CFM Floor Mount Make-Up Air Unit	EA	1	20,000.00	\$20,000
20 Ton Roof Condensing Unit	EA	1	40,000.00	\$40,000
VAV Box w/ Re-Heat to Existing Duct	EA	5	2,000.00	\$10,000
1.5 Ton Wall IDU/ ODU	EA	1	4,500.00	\$4,500
Roof Exhaust Fan to Existing Duct	EA	2	2,000.00	\$4,000
Ceiling Exhaust Fan to Existing Duct	EA	4	1,000.00	\$4,000
Air Balance	LS	1	6,000.00	\$6,000
New WiFi T-Stats and Programming	EA	11	1,000.00	\$11,000
Add for Duct Cleaning	LS	1	5,000.00	\$5,000
Add for Enhanced Option	EA	6	1,000.00	\$6,000
			Bldg. R-Total	\$185,500
BLDG. U DEMOLITION:				
Remove (E) Wall Bard Heat Pump	EA	2	1,000.00	\$2,000
BLDG. U NEW:				
3.5 Ton Wall Bard Heat Pump Unit	EA	2	9,000.00	\$18,000
			Bldg. U-Total	\$20,000
FIELD HOUSE DEMOLITION:				
Remove (E) Suspended Furnace	EA	1	1,000.00	\$1,000
Remove (E) Roof Exhaust Fan	EA	2	400.00	
FIELD HOUSE NEW:				
Furnace/ CC to Existing Duct & 7.5 Ton CU	EA	1	22,500.00	\$22,500
Roof Exhaust Fan to Existing Duct	EA	2	2,000.00	\$4,000
			Field House-Total	\$27,500

TAMALPAIS H.S. HVAC REPLACEMENT - P2110600ME
PRELIM. SITE-POOL-A-B BLDG. ELECTRICAL & PLUMBING COST ESTIMATE
9/30/2021

Item	Units	Qty	Cost/Item	Total
SITE:				
New Main Service	LS	1	400,000.00	\$400,000
			Site-Total	\$400,000
POOL ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	1,000.00	\$1,000
POOL ELECTRICAL NEW:				
New Wire & Breaker for Mech. Equip.	LS	1	5,000.00	\$5,000
New Wire for Exhaust Fan	EA	2	750.00	\$1,500
			Pool-Total	\$7,500
POOL PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	2,000.00	\$2,000
POOL PLUMBING NEW:				
Reconnect Gas or Condensate	LS	1	3,500.00	\$3,500
			Pool-Total	\$5,500
BLDG. A ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	2,000.00	\$2,000
BLDG. A ELECTRICAL NEW:				
New Elect. & FA for Mech. Equip.	EA	4	6,000.00	\$24,000
New Wire for Exhaust Fan	EA	0	750.00	\$0
			Bldg. A-Total	\$26,000
BLDG. A PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	3,000.00	\$3,000
BLDG. A PLUMBING NEW:				
Reconnect Gas or Condensate	EA	4	750.00	\$3,000
			Bldg. A-Total	\$6,000
BLDG. B ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	6,000.00	\$6,000
BLDG. B ELECTRICAL NEW:				
New Elect. & FA for Mech. Equip.	EA	4	6,000.00	\$24,000
New Wire for Exhaust Fan	EA	7	750.00	\$5,250
			Bldg. B-Total	\$35,250
BLDG. B PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	4,500.00	\$4,500
BLDG. B PLUMBING NEW:				
Reconnect Gas or Condensate	EA	11	750.00	\$8,250
			Bldg. B-Total	\$12,750

TAMALPAIS H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY C-E-F BLDG. ELECTRICAL & PLUMBING COST ESTIMATE
9/30/2021

Item	Units	Qty	Cost/Item	Total
BLDG. C ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	10,000.00	\$10,000
BLDG. C ELECTRICAL NEW:				
New Elect. & FA for Mech. Equip.	EA	23	6,000.00	\$138,000
New Wire for Exhaust Fan	EA	0	750.00	\$0
			Bldg. C-Total	\$148,000
BLDG. C PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	9,000.00	\$9,000
BLDG. C PLUMBING NEW:				
Reconnect Gas or Condensate	EA	23	750.00	\$17,250
			Bldg. C-Total	\$26,250
BLDG. E ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	20,000.00	\$20,000
BLDG. E ELECTRICAL NEW:				
New Elect. & FA for Mech. Equip.	EA	18	6,000.00	\$108,000
New Wire for Exhaust Fan	EA	4	750.00	\$3,000
			Bldg. E-Total	\$131,000
BLDG. E PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	8,000.00	\$8,000
BLDG. E PLUMBING NEW:				
Reconnect Gas or Condensate	EA	18	750.00	\$13,500
			Bldg. E-Total	\$21,500
BLDG. F ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	5,000.00	\$5,000
BLDG. F ELECTRICAL NEW:				
New Wire & Breaker for Mech. Equip.	EA	8	1,750.00	\$14,000
New Wire for Exhaust Fan	EA	0	750.00	\$0
			Bldg. F-Total	\$19,000
BLDG. F PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	3,500.00	\$3,500
BLDG. F PLUMBING NEW:				
Reconnect Gas or Condensate	EA	8	750.00	\$6,000
			Bldg. F-Total	\$9,500

TAMALPAIS H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY G-H-J BLDG. ELECTRICAL & PLUMBING COST ESTIMATE
9/30/2021

Item	Units	Qty	Cost/Item	Total
BLDG. G ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	12,000.00	\$12,000
BLDG. G ELECTRICAL NEW:				
New Elect. & FA for Mech. Equip.	EA	22	6,000.00	\$132,000
New Wire for Exhaust Fan	EA	14	750.00	\$10,500
		Bldg. G-Total		\$154,500
BLDG. G PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	26,000.00	\$26,000
BLDG. G PLUMBING NEW:				
Reconnect Gas or Condensate	EA	28	750.00	\$21,000
		Bldg. G-Total		\$47,000
BLDG. H ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	15,000.00	\$15,000
BLDG. H ELECTRICAL NEW:				
New Elect. & FA for Mech. Equip.	EA	17	6,000.00	\$102,000
New Wire for Exhaust Fan	EA	13	750.00	\$9,750
		Bldg. H-Total		\$126,750
BLDG. H PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	8,000.00	\$8,000
BLDG. H PLUMBING NEW:				
Reconnect Gas or Condensate	EA	23	750.00	\$17,250
		Bldg. H-Total		\$25,250
BLDG. J ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	750.00	\$750
BLDG. J ELECTRICAL NEW:				
New Elect. & FA for Mech. Equip.	EA	2	6,000.00	\$12,000
New Wire for Exhaust Fan	EA	0	750.00	\$0
		Bldg. J-Total		\$12,750
BLDG. J PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	500.00	\$500
BLDG. J PLUMBING NEW:				
Reconnect Gas or Condensate	EA	2	750.00	\$1,500
		Bldg. J-Total		\$2,000

TAMALPAIS H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY K-L-M BLDG. ELECTRICAL & PLUMBING COST ESTIMATE
9/30/2021

Item	Units	Qty	Cost/Item	Total
BLDG. K ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	300.00	\$300
BLDG. K ELECTRICAL NEW:				
New Elect. & FA for Mech. Equip.	EA	2	6,000.00	\$12,000
New Wire for Exhaust Fan	EA	4	750.00	\$3,000
			Bldg. K-Total	\$15,300
BLDG. K PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	2,000.00	\$2,000
BLDG. K PLUMBING NEW:				
Reconnect Gas or Condensate	EA	4	750.00	\$3,000
			Bldg. K-Total	\$5,000
BLDG. L ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	4,000.00	\$4,000
BLDG. L ELECTRICAL NEW:				
New Elect. & FA for Mech. Equip.	EA	6	6,000.00	\$36,000
New Wire for Exhaust Fan	EA	2	750.00	\$1,500
			Bldg. L-Total	\$41,500
BLDG. L PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	3,000.00	\$3,000
BLDG. L PLUMBING NEW:				
Reconnect Gas or Condensate	EA	7	750.00	\$5,250
			Bldg. L-Total	\$8,250
BLDG. M ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	12,500.00	\$12,500
BLDG. M ELECTRICAL NEW:				
New Elect. & FA for Mech. Equip.	EA	11	6,000.00	\$66,000
New Wire for Exhaust Fan	EA	3	750.00	\$2,250
			Bldg. M-Total	\$80,750
BLDG. M PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	4,500.00	\$4,500
BLDG. M PLUMBING NEW:				
Reconnect Gas or Condensate	EA	11	750.00	\$8,250
			Bldg. M-Total	\$12,750

TAMALPAIS H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY N-P-R BLDG. ELECTRICAL & PLUMBING COST ESTIMATE
9/30/2021

Item	Units	Qty	Cost/Item	Total
BLDG. N ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	5,000.00	\$5,000
BLDG. N ELECTRICAL NEW:				
New Elect. & FA for Mech. Equip.	EA	10	6,000.00	\$60,000
New Wire for Exhaust Fan	EA	2	750.00	\$1,500
			Bldg. N-Total	\$66,500
BLDG. N PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	4,000.00	\$4,000
BLDG. N PLUMBING NEW:				
Reconnect Gas or Condensate	EA	10	750.00	\$7,500
			Bldg. N-Total	\$11,500
BLDG. P ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	8,000.00	\$8,000
BLDG. P ELECTRICAL NEW:				
New Elect. & FA for Mech. Equip.	EA	7	6,000.00	\$42,000
New Wire for Exhaust Fan	EA	7	750.00	\$5,250
			Bldg. P-Total	\$55,250
BLDG. P PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	5,000.00	\$5,000
BLDG. P PLUMBING NEW:				
Reconnect Gas or Condensate	EA	10	750.00	\$7,500
			Bldg. P-Total	\$12,500
BLDG. R ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	8,000.00	\$8,000
BLDG. R ELECTRICAL NEW:				
New Elect. & FA for Mech. Equip.	EA	4	6,000.00	\$24,000
New Wire for Exhaust Fan	EA	6	750.00	\$4,500
			Bldg. R-Total	\$36,500
BLDG. R PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	4,500.00	\$4,500
BLDG. R PLUMBING NEW:				
Reconnect Gas or Condensate	EA	9	750.00	\$6,750
			Bldg. R-Total	\$11,250

TAMALPAIS H.S. HVAC REPLACEMENT - P2110600ME
PRELIM. U BLDG.- FIELD HOUSE ELECTRICAL & PLUMBING COST ESTIMATE
9/30/2021

Item	Units	Qty	Cost/Item	Total
BLDG. U ELECTRICAL DEMOLITION:				
Electrical Disconnect	LS	1	1,000.00	\$1,000
BLDG. U ELECTRICAL NEW:				
New Wire & Breaker for Mech. Equip.	EA	2	1,750.00	\$3,500
New Wire for Exhaust Fan	EA	0	750.00	\$0
			Bldg. U-Total	\$4,500
BLDG. U PLUMBING DEMOLITION:				
Gas or Condensate Disconnect	LS	1	500.00	\$500
BLDG. U PLUMBING NEW:				
Reconnect Gas or Condensate	EA	2	750.00	\$1,500
New Condensate to Mech. Unit	EA	0	1,000.00	\$0
			Bldg. U-Total	\$2,000
FIELD HOUSE ELECTRICAL DEMO:				
Electrical Disconnect	LS	1	1,000.00	\$1,000
FIELD HOUSE ELECTRICAL NEW:				
New Elect. & FA for Mech. Equip.	EA	1	6,000.00	\$6,000
New Wire for Exhaust Fan	EA	2	750.00	\$1,500
			Field House-Total	\$8,500
FIELD HOUSE PLUMBING DEMO:				
Gas or Condensate Disconnect	LS	1	1,000.00	\$1,000
FIELD HOUSE PLUMBING NEW:				
Reconnect Gas or Condensate	EA	2	750.00	\$1,500
New Condensate to Mech. Unit	EA	0	1,000.00	\$0
			Field House-Total	\$2,500

TAMALPAIS H.S. HVAC REPLACEMENT - P2110600ME
PRELIMINARY ARCHITECTURE AND GENERAL CONDITIONS COST ESTIMATE
9/30/2021

Item	Units	Qty	Cost/Item	Total
CLG., ROOF, WALL DEMO., PATCH				
& SITE PROTECTION:	LS	1	1,525,520.00	\$1,525,520
GENERAL ADMINISTRATION:				
Construction Management	LS	1	1,525,520.00	\$1,525,520
			Total	\$3,051,040