HVAC MECHANICAL ESTIMATE _ BOYET JUNIOR HIGH SCHOOL

TASK	DESCRIPTION	EQUIPMENT		LABOR			MATERIAL		REMARKS
		DESCRIPTION	$, TOTAL	CREW	TOTAL LABOR HOURS	$, TOTAL	DESCRIPTION	$, TOTAL	
Demolition	Demolition, air handling unit "A" (15 ton in trusses, 30 ft above grade)	Manlift	$420	3 sht. mtl.	24	$1,440			Approximately 30 feet above grade
	Demolition, air handling unit "B" (15 ton in trusses, 30 ft above grade)	Manlift	$420	3 sht. mtl.	24	$1,440			Approximately 30 feet above grade
	Demolition, condenser "A", on grade	Forklift	$210	2 sht. mtl.	6	$240			Demolish exist. condenser
	Demolition, condenser "B" on grade	Forklift	$210	2 sht. mtl.	6	$240			Demolish exist. condenser
	Demolition, air handling unit (5 ton fan coil in gym)	Scafolding	$100	2 sht. mtl.	3	$120			
	Demolition, condensing unit (5 ton gym roof)	Forklift	$120	2 sht. mtl.	3	$120			
	Demolition, Ductless Mini-Split (1.5 ton Food Services @ Entrance)	Ladder	$0	2 sht. mtl.	4	$160			Demolish exist. Fan coil unit
Structural	W12x26	Manlift	$936		12	$720	4 each W12x26 Support Beams	$15,600	Install structural supports
	Roof Curb						Roof Curb Installed	$10,000	
Electrical	RTU#1	Ladder	$0		18	$1,079	Materials	$3,864	
	RTU#2	Scaffolding	$200		84	$5,076	Materials	$9,832	
	AHU#1	Scaffolding	$200		56	$3,368	Materials	$2,859	
	AHU#2	Scaffolding	$200		35	$2,095	Materials	$2,070	
	Mini-Split	Ladder	$0		17	$1,047	Materials	$1,657	
Construction	Install 15 ton packaged RTU#1 on roof	Crane	$750	2 sht. mtl.	20	$1,000	15 Ton packaged DX unit, 208-3 phase, 36 kW Heat	$18,300	Install on lower roof with duct routed to sidewall diffusers near roof in gym.
	Install 15 ton packaged RTU#2 on roof	Crane	$750	2 sht. mtl.	20	$1,000	15 Ton packaged DX unit, 208-3 phase, 36 kW Heat	$18,300	Install on lower roof with duct routed to sidewall diffusers near roof in gym.
	Ductwork for "RTU#1"	Ladder	$0	3 sht. mtl.	18	$990	20" x 40" duct, 10 ft. long	$650	625 Lb. galvanized sheetmetal
	Ductwork for "RTU#2"	Ladder	$0	3 sht. mtl.	18	$990	20" x 40" duct, 10 ft. long	$650	625 Lb. galvanized sheetmetal
	Duct insulation, interior liner, both units	Ladder	$0	2 sht. mtl.	4	$220	Duct insulation, 400 Sq. Ft.	$560	1-1/2" thk duct wrap with FSK & weather jacket
	Install S/A & R/A grilles in upper wall - both 15 ton units	Manlift	$210	2 sht. mtl.	16	$960	Sidewall registers w/ adjustable vanes	$820	Painted steel to match wall
	Fabricate & install ductwork for 5 ton split DX air handling unit	Scaffolding	$200	2 sht. mtl.	40	$1,600	bricate & install 16" x 16" metal duct, 50 ft. lo	300	280 Lb. galvanized sheetmetal
	Fabricate & install ductwork for 5 ton split DX air handling unit	Scaffolding	$200	2 sht. mtl.	40	$1,600	bricate & install 16" x 16" metal duct, 50 ft. lo	300	280 Lb. galvanized sheetmetal
	Install 5 ton split DX AHU #1	Scafolding	$100	2 sht. mtl.	12	$600	5 Ton split system DX	$4,500	Including 5 ton condenser
	Install 5 ton split DX AHU #2	Scafolding	$100	2 sht. mtl.	12	$600	5 Ton split system DX	$4,500	Including 5 ton condenser
	Install ductwork for 5 ton split DX	Scaffolding	$200	2 sht. mtl.	40	$2,000	16" x 16" metal duct, 50 ft. long	$300	280 Lb. galvanized sheetmetal
	Install ductwork for 5 ton split DX	Scaffolding	$200	2 sht. mtl.	40	$2,000	16" x 16" metal duct, 50 ft. long	$300	280 Lb. galvanized sheetmetal
	Duct insulation, liner	Ladder	$0	2 sht. mtl.	12	$600	Duct insulation, 300 Sq. Ft.	$420	1-1/2" thk duct wrap with FSK vapor barrier
	Duct insulation, liner	Ladder	$0	2 sht. mtl.	12	$600	Duct insulation, 300 Sq. Ft.	$420	1-1/2" thk duct wrap with FSK vapor barrier
	S/A and R/A grilles for 5 ton DX unit	Ladder	$0	1 sht. mtl.	8	$400	16" x 10" registers	$390	w/ adjustable vanes
	S/A and R/A grilles for 5 ton DX unit	Ladder	$0	1 sht. mtl.	8	$400	16" x 10" registers	$390	w/ adjustable vanes
	30,000 BTUH mini-split system with ceiling cassette for front entry lobby	Ladder	$0	2 sht. mtl.	24	$1,200	30,000 BTUH mini-split	$4,650	New installation
	18,000 BTUH mini-split system for area adjacent to front entry lobby	Ladder	$0	2 sht. mtl.	16	$800	18,000 BTUH mini-split	$2,700	Replace in kind
	16" side wall exhaust fan, 1500 CFM	Ladder	$0	1 elect, 1 sht. mtl.	16	$800	16" side wall exhaust fan	$650	w/ exterior rain hood & shutter
	Grille balancing	Ladder	$0	1 sht. mtl.	6	$300	Air balance	$0	balance to within 10% of design
		Equipment Subtotal ($) :	$5,726		**Labor Subtotal ($):**	$35,805	**Material Subtotal ($):**	$104,981	

Overall Subtotal:	146,512	Equipment, labor & material
Mobilization and demobilization	5,000	
Height/difficulty factor:	3,000	
Administartion:	630	
Contingency (20%):	29,302	
Permits & Fees (3%):	4,395	
Bond (3%):	4,395	
Tax (9%):	13,186	
Total:	**$ 206,422**	