

ICF Points List

ID	Building (built 1985)	Equip.	Description	Serves	HP SAF/RAF or pump	CFM or gpm/head	% OA	Clg Tons	QTY	Start/Stop/Status/VFD			Temperature Sensors					Damper Actuators					Htg Valves and Actuators				Cooling	VAV				Boilers/hot water				Other/misc.						
										Start/Stop (thru VFD where applicable)	Status (thru VFD where applicable)	VFD speed control*2	DA Temp	RA Temp.	MA Temp.	HD Temp.	CD Temp.	Space Temp.	Min OA dmp	OA dmp	OA dmp w/end switch for 100% OA units	RA dmp	Exh or relief air dmp	Multi Zone dmp	F&B dmp	Pre htg valve and act.	Htg coil valve and act.	Reheat valve act.	3 way Zone reset valve and act.	Clg Ctrl (stgs)	VAV w/o reheat*3	VAV w/ reheat valve *4	Hi Pres. limit (direct wired and alarm)	Stat. pres *1	Enbl/Dsbl.	HWS Temp	HWR Temp	HW Blr Bacnet/LON	Low Limit (direct wired and alarm)	LONstats		
44	School & aud Bldg 300	CUH	(16) CUH 11 w/OA	classrooms	fract				16	16	16							11																								
45	School & aud Bldg 300	UH	(9) UH	Shop					9																																	
46	School & aud Bldg 300	Ex.Fan	(6)Direct Drive Roof mounted	Toilet, multipurpose	fract	1000			6	6	6																															
47	School & aud Bldg 300	Pump		Primary	7.5	360/45			1	1	1																															
48	School & aud Bldg 300	Pump		FTR	0.75	20/45			1	1	1																															
49	School & aud Bldg 300	Pump		AHU-9 pump	0.25	10.8/15			1	1	1																															
50	School & aud Bldg 300	Pump		AHU-10 pump	0.25	10.8/15			1	1	1																															
51	School & aud Bldg 300	Pump		AHU-11 pump	0.5	29/22			1	1	1																															
52	School & aud Bldg 300	Pump		AHU-12 pump	0.5	33/55			1	1	1																															
53	School & aud Bldg 300	Pump		AHU-13 pump	0.5	24/30			1	1	1																															
54	School & aud Bldg 300	Boilers	Hi efficiency boiler	Building heating					3																																	
55	School & aud Bldg 300	Pumps	Heating	Building heating	7.5				2	2	2																															
54	Dorms 6&7	Pump		(4)zone pumps with valves	FRACT				4	4	4																															
55	Dorms 6&7	AHU	(2) unit vents	common area					2	2	2	2	2																													
56	Dorms 6&7	Boiler	(1) Boiler	Dorm heating																																						
57	Dorms 6&7	Ex.Fan	(4) Roof Ex fan			1000			4	4	4																															
			Outside air Temp.						2																																	
58	(10) points to be Determined									10	10																															

Total Points	827
Total Estimated Cost	\$ 724,993

Notes:
*1 Static pressure sensors to be located in the traditional 2/3 of longest duct run.
*2 VFD to include start/stop(thru VFD), status,(thru VFD) speed control
*3 VAV w/o reheat: to include space sensor, controller, actuators and connections to VAV box(inputs, etc.)
*4 VAV w reheat: see *3 above, provide valve and actuator
*5 Enable/disable based on zones. Replace existing thermostats with single temperature non setback thermostats.