

Jackson Barracks 141st Field Artillery Battalion Readiness Center

ELECTRIC HEAT CALCULATIONS

May 3, 2006

35% Design Submittal

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Job: Jackson Barracks 141 Readness Center

Electric Heating Coil Sizing Chart

Heater	Heater Location	CFM	O/A CFM	O/A T	R/A T	O/A %	R/A %	O/A °F	R/A °F	ΔT	CALC KW	USE KW	ACTUAL ΔT	MIX AIR T	ACTUAL LA T
EDH-1	AHU 1-1	3744	618	55	70	0.16	0.84	9.07	58.45	27.47	32.55	32.00	27.01	67.53	94.54
EDH-4	AHU 1-2	7574	1798	55	70	0.24	0.76	13.06	53.38	28.56	68.45	12.00	5.01	66.44	71.45
EDH-5	AHU 1-3	4600	1628	55	70	0.35	0.65	19.46	45.23	30.31	44.12	120.00	82.44	64.69	147.13
EDH-6	AHU 1-4	1450	153	55	70	0.11	0.89	5.81	62.60	26.59	12.20	6.00	13.08	68.41	81.49