Panel MDP			Fed From T1 (500 KVA XFMR)										LOCATION		
Volts	Phase	Wire	A.I.C.	# Ckts										Ampe Rating	
208	3	4	35k	42										Bus	Main Bkr
Description	Lighting	Recept	Motor	Appl / Eqpt	Ckt Bkr	Circuit	Number	Ckt Bkr	Lighting	Recept	Motor	Appl / Eqpt	Description		1600
HPU #1				4,805	50A/3P	1	2	50A/3P				4,805	HPU #2		
				4,805	"	3	4	"				4,805		Ground Bus	
				4,805	"	5	6	"				4,805		Eqpt.	Iso. Gnd.
						7	8							X	
ACU-1				3,111	30A/3P	9	10	30A/3P				3,111	ACU-2		
				3,111	"	11	12	"				3,111		Neutral	
				3,111	"	13	14	"				3,111		Full	Double
LP12A	8,225	0	0	0	150A/3P	15	16	150A/3P	0	5,220	3,516	200	PP12A	X	
	8,396	0	0	0	"	17	18	"	0	3,600	3,516	4,240			
	6,865	0	0	0	"	19	20	"	0	3,780	3,516	3,348		Mounting	
TRAINER #1				9,610	100A/3P	21	22	100A/3P				9,610	TRAINER #2	Flush	Surface
				9,610	"	23	24	"				9,610			X
				9,610	"	25	26	"				9,610			
						27	28	600A/3P					EXISTING PANEL M	Feed-Thru Lugs?	
PP12B	0	0	3,754	5,520	150A/3P	29	30	"					LOAD UNKNOWN	No	Yes
	0	0	3,052	5,320	"	31	32	"							X
	0	0	3,052	5,250	"	33	34								
						35	36								
						37	38	30A/3P					TVSS		
						39	40	"							
						41	42	"							
Total	23,486	0	9,858	68,668					0	12,600	10,548	60,366			

Type of Load	Connected	Factor	Demand			
Lighting	23.49	1.25	29.36			
Receptacles (1st 10 KVA)	10.00	1.00	10.00			
Receptacles (Remainder)	2.60	0.50	1.30			
Motors	20.41	1.00	20.41			
Largest Motor	3.52	0.25	0.88	KVA	185.53	Connected
Appliances/Equipment	129.03	1.00	129.03	KVA	576.43	Design
				KVA	190.98	Demand
Totals	185.53	KVA	190.98	KVA	385.45	Spare
Load	514.97	Ampe	530.10	Ampe	507.40	Connected - Phase A
Spare			1069.90	Ampe	503.92	Connected - Phase B
Total			1600.00	Ampe	533.59	Connected - Phase C

Panel LP12A			Fed From MDP	(Ckt 15,17,19)									LOCATION		
Volts	Phase	Wire	A.I.C.	# Ckts										Ampe Rating	
208	3	4	35k	42										Bus	Main Bkr
Description	Lighting	Recept	Motor	Appl / Eqpt	Ckt Bkr	Circuit	Number	Ckt Bkr	Lighting	Recept	Motor	Appl / Eqpt	Description	225	
EAST BAY LIGHTING	1,246				20A/2P	1	2	20A/1P	470				PERIMETER LIGHTING		
	1,246				"	3	4	20A/1P	638				BAY EMERGENCY LTG	Ground Bus	
EAST BAY LIGHTING	1,246				20A/2P	5	6	20A/2P	683				PARKING LOT LTG	Eqpt.	Iso. Gnd.
	1,246				"	7	8	"	683					X	
SOUTH BAY LIGHTING	1,246				20A/2P	9	10	20A/1P	1,528				BRIEFING/OFFICE LTG		
	1,246				"	11	12	20A/1P	1,198				CORRIDOR LIGHTING	Neutral	
CENTER BAY LIGHTING	1,246				20A/2P	13	14	20A/1P	842				RR/STORAGE LIGHTING	Full	Double
	1,246				"	15	16	20A/1P					SPARE	X	
CENTER BAY LIGHTING	1,246				20A/2P	17	18	20A/1P					SPARE		
	1,246				"	19	20	20A/1P					SPARE	Mounting	
WEST BAY LIGHTING	1,246				20A/2P	21	22	20A/1P					SPARE	Flush	Surface
	1,246				"	23	24	20A/1P					SPARE		X
WEST BAY LIGHTING	1,246				20A/2P	25	26	20A/1P					SPARE		
	1,246				"	27	28	20A/1P					SPARE	Feed-Thru Lugs?	
SPARE					20A/1P	29	30	20A/1P					SPARE	No	Yes
SPARE					20A/1P	31	32	20A/1P					SPARE	X	
SPARE					20A/1P	33	34	20A/1P					SPARE		
SPARE					20A/1P	35	36	20A/1P					SPARE		
SPARE					20A/1P	37	38	30A/3P					TVSS		
SPARE					20A/1P	39	40	"							
SPARE					20A/1P	41	42	"							
Total	17,444	0	0	0					6,042	0	0	0			

Type of Load	Connected	Factor	Demand			
Lighting	23.49	1.25	29.36			
Receptacles (1st 10 KVA)	0.00	1.00	0.00			
Receptacles (Remainder)	0.00	0.50	0.00			
Motors	0.00	1.00	0.00			
Largest Motor		0.25	0.00	KVA	23.49	Connected
Appliances/Equipment	0.00	1.00	0.00	KVA	54.04	Design
				KVA	29.36	Demand
Totals	23.49	KVA	29.36	KVA	24.68	Spare
Load	65.19	Amps	81.49	Ampe	68.49	Connected - Phase A
Spare			68.51	Ampe	69.91	Connected - Phase B
Total			150.00	Ampe	57.17	Connected - Phase C

Panel PP12A			Fed From MDP	(Ckt 16,18,20)									LOCATION MECH ROOM 115		
Volts	Phase	Wire	A.I.C.	# Ckts										Ampe Rating	
208	3	4	35k	42										Bus	Main Bkr
Description	Lighting	Recept	Motor	Appl / Eqpt	Ckt Bkr	Circuit	Number	Ckt Bkr	Lighting	Recept	Motor	Appl / Eqpt	Description	225	
OFFICE 104		900			20A/1P	1	2	20A/1P		900			BRIEFING 106/107		
OFFICE 104/BRIEFING 105		900			20A/1P	3	4	20A/1P		900			BRIEFING 107	Ground Bus	
BRIEFING 105/106		900			20A/1P	5	6	20A/1P		1,080			BRIEFING 107/108	Eqpt.	Iso. Gnd.
ROOMS 109, 110, 111, 113, 114		900			20A/1P	7	8	20A/1P		900			ENTRY/CORRIDOR 103	X	
EWC				1,000	20A/1P	9	10	20A/1P		720			SOUTH EXTERIOR POWER		
STORAGE 112		720			20A/1P	11	12	20A/1P		540			WEST WALL BAY 117	Neutral	
SECURITY PANEL				100	20A/1P	13	14	20A/1P		540			SOUTH WALL BAY 117	Full	Double
EAST EXTERIOR POWER		540			20A/1P	15	16	20A/1P				1,440	F-1	X	
F-2				1,248	40A/1P	17	18	20A/1P				300	TRAINER LTG CONTACTOR		
MAINT. ROOM 116		360			20A/1P	19	20	20A/1P				100	EXT. LTG CONTACTOR	Mounting	
MAINT. ROOM 116		540			20A/1P	21	22	20A/3P			1,172		OH DOOR POWER	Flush	Surface
MAINT. ROOM 116		540			20A/1P	23	24	"			1,172				X
OH DOOR POWER			1,172		20A/3P	25	26	"			1,172				
			1,172		"	27	28	20A/3P			1,172		OH DOOR POWER	Feed-Thru Lugs?	
			1,172		"	29	30	"			1,172			No	Yes
INFLOOR RECEPTACLES		720			20A/1P	31	32	"			1,172			X	
HOT WATER TANK				1,800	20A/2P	33	34	20A/1P					SPARE		
SPARE				1,800	"	35	36	20A/1P					SPARE		
SPARE					20A/1P	37	38	30A/3P					TVSS		
SPARE					20A/1P	39	40	"							
SPARE					20A/1P	41	42	"							
Total	0	7,020	3,516	5,948					0	5,580	7,032	1,840			

Type of Load	Connected	Factor	Demand			
Lighting	0.00	1.25	0.00			
Receptacles (1st 10 KVA)	10.00	1.00	10.00			
Receptacles (Remainder)	2.60	0.50	1.30			
Motors	10.55	1.00	10.55			
Largest Motor	3.52	0.25	0.88	KVA	30.94	Connected
Appliances/Equipment	7.79	1.00	7.79	KVA	54.04	Design
				KVA	30.52	Demand
Totals	30.94	KVA	30.52	KVA	23.52	Spare
Load	85.87	Ampe	84.70	Ampe	74.41	Connected - Phase A
Spare			65.30	Ampe	94.56	Connected - Phase B
Total			150.00	Ampe	88.63	Connected - Phase C

Panel PP12B			Fed From MDP	(Ckt 29,31,33)									LOCATION MECH ROOM 115		
Volts	Phase	Wire	A.I.C.	# Ckts										Ampe Rating	
208	3	4	35k	42										Bus	Main Bkr
Description	Lighting	Recept	Motor	Appl / Eqpt	Ckt Bkr	Circuit	Number	Ckt Bkr	Lighting	Recept	Motor	Appl / Eqpt	Description	225	
EF-1			940		20A/3P	1	2	20A/3P			940		EF-2		
			940		"	3	4	"			940			Ground Bus	
			940		"	5	6	"			940			Eqpt.	Iso. Gnd.
CU-1				2,403	30A/3P	7	8	20A/3P				1,802	CU-2	X	
				2,403	"	9	10	"				1,802			
				2,403	"	11	12	"				1,802			Neutral
GEORATOR				1,045	20A/3P	13	14	20A/3P			1,172		OH DOOR POWER	Full	Double
				1,045		15	16	"			1,172			X	
				1,045		17	18	"			1,172				
RTH-1 & RTH-2				270	20A/1P	19	20	20A/1P			702		EF-3 & EF-4	Mounting	
RESTROOM FLUSH VALVES				70	20A/1P	21	22	20A/1P					SPARE	Flush	Surface
SPARE					20A/1P	23	24	20A/1P					SPARE		X
SPARE					20A/1P	25	26	20A/1P					SPARE		
SPARE					20A/1P	27	28	20A/1P					SPARE	Feed-Thru Lugs?	
SPARE					20A/1P	29	30	20A/1P					SPARE	No	Yes
SPARE					20A/1P	31	32	20A/1P					SPARE		
SPARE					20A/1P	33	34	20A/1P					SPARE		
SPARE					20A/1P	35	36	20A/1P					SPARE		
SPARE					20A/1P	37	38	30A/3P					TVSS		
SPARE					20A/1P	39	40	"							
SPARE					20A/1P	41	42	"							
Total	0	0	2,820	10,684					0	0	7,038	5,406			

Type of Load	Connected	Factor	Demand			
Lighting	0.00	1.25	0.00			
Receptacles (1st 10 KVA)	0.00	1.00	0.00			
Receptacles (Remainder)	0.00	0.50	0.00			
Motors	9.86	1.00	9.86			
Largest Motor	3.52	0.25	0.88	KVA	25.95	Connected
Appliances/Equipment	16.09	1.00	16.09	KVA	54.04	Design
				KVA	26.83	Demand
Totals	25.95	KVA	26.83	KVA	27.21	Spare
Load	72.02	Amps	74.47	Ampe	77.23	Connected - Phase A
Spare			75.53	Ampe	69.72	Connected - Phase B
Total			150.00	Ampe	69.13	Connected - Phase C

U.S. ARMY CORPS OF ENGINEERS
LITTLE ROCK DISTRICT

Mark	Description	Date	Appr.

Mark	Description	Date	Appr.

Drawn by: MB
Dwg. Code:
Contract Date:
File Name: 151001E-602
Plot date: 02/24/03
Plot scale: 1:1
Contract No: DACA01-03-R-0021

Designed by: RH
Reviewed by: PWD
Submitted by: Atkins Benham, Inc.
Invitation No.: DACA01-03-R-0021

DEPARTMENT OF THE ARMY
U.S. ARMY CORPS OF ENGINEERS
LITTLE ROCK DISTRICT
LITTLE ROCK, ARKANSAS

Atkins Benham
(918) 492-1600 www.atkinsbenham.com
a member of the WS Atkins group of companies
WS Atkins

ADAL C-130J AIRCREW FUSELAGE TRAINER
LRAFB, LITTLE ROCK AR.
Project No. NKAK 043005

PANEL SCHEDULES

Sheet Reference Number:
E-602
Sheet 89 of 91

Drawing: P:\USTAH\FAC\2403151001\20_CAD\E\151001E-602 Saved: 03/19/2003 16:16 By: DH DimScale: 1 (TM=0)
XRefs: 151001G-BS001.DWG