VOLTAGE	PHASE	WIRE	A.I.C.	PANEL	LOCATION	FEEDER	MOUNTING	MAINS	BUSSING	FEED
277/480	3	4	42,000	"HA"	ELECT. RM.	SEE SINGLE LIN	SURFACE	MLO	100 A	BOTTOM

	LOCATION	WATTAGE ØA	WATTAGE ØB	WATTAGE ØC	LTG	REC	MIS	BKR	CIR	Ø	CIR	BKR	MIS	REC	LTG	WATTAGE ØA	WATTAGE ØB	WATTAGE ØC	LOCATION
✱	LIGHTING ZONE 1	2816			37			20	1	A	2	20			14	1178			CORRIDOR ✱
○	LIGHTING ZONE 2		2794		40			20	3	B	4	20			7		294		EXTERIOR ○
□	LIGHTING ZONE 3			3494	54			20	5	C	6	20			6			264	EXTERIOR △
△	LIGHTING ZONE 4	3449			65			20	7	A	8	20			23	1012			EXTERIOR △
▣	LIGHTING ZONE 5		1736		24			20	9	B	10	20			7		1211		PARKING △
▲	SIGN			—				20	11	C	12	20			5			865	PARKING △
	SPACE ONLY	—						0	13	A	14	20			20	1400			WALKWAYS △
	SPACE ONLY		—					0	15	B	16	0					—		SPACE ONLY
	SPACE ONLY			—				0	17	C	18	0						—	SPACE ONLY
	SPACE ONLY	—						0	19	A	20	0				—			SPACE ONLY
	SPACE ONLY		—					0	21	B	22	0					—		SPACE ONLY
	SPACE ONLY			—				0	23	C	24	0						—	SPACE ONLY
	SPACE ONLY	—						0	25	A	26	0				—			SPACE ONLY
	SPACE ONLY		—					0	27	B	28	0					—		SPACE ONLY
	SPACE ONLY			—				0	29	C	30	0						—	SPACE ONLY
	SPACE ONLY	—						0	31	A	32	0				—			SPACE ONLY
	SPACE ONLY		—					0	33	B	34	0					—		SPACE ONLY
	SPACE ONLY			—				0	35	C	36	0						—	SPACE ONLY
	SPACE ONLY	—						0	37	A	38	0				—			SPACE ONLY
	SPACE ONLY		—					0	39	B	40	0					—		SPACE ONLY
	SPACE ONLY			—				0	41	C	42	0						—	SPACE ONLY
	SUBTOTAL	6265	4530	3494												3590	1505	1129	

TOTAL ØA 9855 ØB 6035 ØC 4623

TOTAL LOAD 20513 WATTS AT 277/480 V.,3Ø, 4W.= 24.7 A.

HIGH PHASE 9855 WATTS AT 277 V.,1Ø, 2W.= 35.6 A. DATE 10/21/09

✱ = ROUTE CIRCUIT THROUGH T-24 CONTROL PANEL - ZONE 1
○ = ROUTE CIRCUIT THROUGH T-24 CONTROL PANEL - ZONE 2
□ = ROUTE CIRCUIT THROUGH T-24 CONTROL PANEL - ZONE 3
△ = ROUTE CIRCUIT THROUGH T-24 CONTROL PANEL - ZONE 4
▣ = ROUTE CIRCUIT THROUGH T-24 CONTROL PANEL - ZONE 5
▲ = ROUTE CIRCUIT THROUGH T-24 CONTROL PANEL - EXTERIOR (5) ZONES

VOLTAGE	PHASE	WIRE	A.I.C.	PANEL	LOCATION	FEEDER	MOUNTING	MAINS	BUSSING	FEED
120/208	3	4	10,000	"LA"	ELECT. RM.	SEE SINGLE LIN	SURFACE	MLO	225 A	BOTTOM

	LOCATION	WATTAGE ØA	WATTAGE ØB	WATTAGE ØC	LTG	REC	MIS	BKR	CIR	Ø	CIR	BKR	MIS	REC	LTG	WATTAGE ØA	WATTAGE ØB	WATTAGE ØC	LOCATION
	A/V EQUIPMENT	1200				2		20	1	A	2	20		1		1200			TOIL
	A/V EQUIPMENT		1200			2		20	3	B	4	20		1			1200		TRAINING
	TRAINING ROOM			1500		2		20	5	C	6	20		1				900	GARB. DISPOSAL
	TRAINING ROOM	1200				1		20	7	A	8	15	1			1200			CHEM PUMP
	TRAINING ROOM		1000			3		20	9	B	10	2	"				1200		- - -
	EXTERIOR, TOILETS			1000		3		20	11	C	12	15	1					1200	CHEM PUMP
	VOLUNTEERS, VEST	1080				6		20	13	A	14	2	"			1200			- - -
	RETAIL		1000			4		20	15	B	16	15	1				1200		CHEM PUMP
	ROLLING GRILLE			1000			1	20	17	C	18	2	"					1200	- - -
	ROLLING GRILLE	1000					1	20	19	A	20	15	1			1200			CHEM PUMP
	EXOTICS, CAT HOLD		900			5		20	21	B	22	2	"				1200		- - -
	CANINE			900		5		20	23	C	24	20	1					1200	PROJECTORS
	SANITIZER	500					1	15	25	A	26	20		4		1000			PUPPIES, CANINE
	GARB. DISP.		900				1	20	27	B	28	20		1			1000		SOCIALIZATION
	U.C. REFRIGERATOR			1500		2		20	29	C	30	20		1				900	GARB. DISP
	EF-2, EF-1, ROOF	1280				1	2	20	31	A	32	20		2		1000			SANITIZER
	DUCT DETECTOR		350				7	15	33	B	34	20		5			900		DOG WARD
	EXT. GEN. HTR.			1800		1	1	20	35	C	36	20		5				900	DOG WARD
	IRRIGATION CONTROLLER	500					1	20	37	A	38	20	2			1000			CAMERAS
✱	LOBBY		750		15			20	39	B	40	0					—		SPACE ONLY
	SPACE ONLY			—				0	41	C	42	0						—	SPACE ONLY
	SUBTOTAL	6760	6100	7700												7800	6700	6300	

TOTAL ØA 14560 ØB 12800 ØC 14000

TOTAL LOAD 41360 WATTS AT 120/208 V.,3Ø, 4W.= 114.8 A.

HIGH PHASE 14560 WATTS AT 120 V.,1Ø, 2W.= 121.3 A. DATE 12/03/09

✱ = ROUTE CIRCUIT THROUGH T-24 CONTROL PANEL - ZONE 4

VOLTAGE	PHASE	WIRE	A.I.C.	PANEL	LOCATION	FEEDER	MOUNTING	MAINS	BUSSING	FEED
120/208	3	4	10,000	"LB"	ELECT. RM.	SEE SINGLE LIN	SURFACE	MLO	225 A	BOTTOM

	LOCATION	WATTAGE ØA	WATTAGE ØB	WATTAGE ØC	LTG	REC	MIS	BKR	CIR	Ø	CIR	BKR	MIS	REC	LTG	WATTAGE ØA	WATTAGE ØB	WATTAGE ØC	LOCATION
	CHEM PUMP	1200						1	15	1	A	2	20		5	900			COUNSELING
	- - -		1200					"	2	3	B	4	20		5		900		ACO'S
	CHEM PUMP			1200				1	15	5	C	6	20		5			900	ACO SUP
	- - -	1200						"	2	7	A	8	20		5	900			ACO'S
	CHEM PUMP		1200					1	15	9	B	10	20		1		1000		COPY ROOM
	- - -			1200				"	2	11	C	12	20		1			1000	COPY ROOM
	DISPATCH	720					4		20	13	A	14	20		5	1500			INTAKE EXAM, LOBBY
	COPY ROOM		1000				1		20	15	B	16	20		1		900		REFRIGERATOR
	COPY ROOM			1000			1		20	17	C	18	20		1			1350	DISH WASHER
	FC-2, FC-1	300					2	15	19	A	20	20		1		1000			LOUNGE
	- - -		300				"	2	21	B	22	20		1			900		GARB. DISP.
	WORK RM, TOILETS			900			5		20	23	C	24	20		1			1000	STAFF LOUNGE
	EXOTICS, ELECT	1080					6		20	25	A	26	20		4	1000			STAFF LOUNGE
	FERAL		900				5		20	27	B	28	20		1		1000		STAFF LOUNGE
	FOOD PREP			1000			3		20	29	C	30	20		1			1000	STAFF LOUNGE
	GARB. DISPOSAL	900					1		20	31	A	32	20	5		1200			VAV
	SANITIZER		1000				1		20	33	B	34	20	4			460		VAV
	CIRC PUMP			1000				1	15	35	C	36	20	2				1680	WH-1, WH-2
	CIRC PUMP	1000						1	15	37	A	38	0			—			SPACE ONLY
	CIRC PUMP		1000					1	15	39	B	40	0				—		SPACE ONLY
	WH-3, WH-4			1680				2	20	41	C	42	0					—	SPACE ONLY
	SUBTOTAL	6400	6600	7680												6500	5660	6430	

TOTAL ØA 12900 ØB 12260 ØC 14910

TOTAL LOAD 40070 WATTS AT 120/208 V.,3Ø, 4W.= 111.2 A.

HIGH PHASE 14910 WATTS AT 120 V.,1Ø, 2W.= 124.3 A. DATE 12/04/09

VOLTAGE	PHASE	WIRE	A.I.C.	PANEL	LOCATION	FEEDER	MOUNTING	MAINS	BUSSING	FEED
120/208	3	4	22,000	"LC"	ELECT. RM.	SEE SINGLE LIN	SURFACE	MLO	225 A	BOTTOM

	LOCATION	WATTAGE ØA	WATTAGE ØB	WATTAGE ØC	LTG	REC	MIS	BKR	CIR	Ø	CIR	BKR	MIS	REC	LTG	WATTAGE ØA	WATTAGE ØB	WATTAGE ØC	LOCATION
	SANITIZER	1000				1		20	1	A	2	20		3		1000			FOOD PREP
	FOOD PREP		1000			3		20	3	B	4	20		6			1080		DOG WARD
	REFRIGERATOR			1300		1		20	5	C	6	20		5				900	HALL, GROOMING
	WASHER	2500				1		25	7	A	8	20		2		700			LAUNDRY
	- - -		2500			"		2	9	B	10	20	1				1000		GROOMING
	WASHER			2500		1		25	11	C	12	20	1					1000	GROOMING
	- - -	2500				"		2	13	A	14	20		5		900			FOOD STOR, HALL
	DRYER		1500			1		20	15	B	16	20		3			1500		STAFF WORK
	DRYER			1500		1		20	17	C	18	20		3				1000	GROOMING
	ROLL-UP DOOR	1200					1	20	19	A	20	20		6		1080			REGISTRY
	- - -		1200				"	2	21	B	22	20		1			1500		VACUUM
	MAINTENANCE			1000		4		20	23	C	24	15	1					500	SPRINK MONITOR
	MAINTENANCE	1000					1	20	25	A	26	20				1000			DOOR
	CU-2		1320				1	30	27	B	28	20					1000		DOOR
	- - -			1320				"	29	C	30	20						1680	VAV
	- - -	1320						"	31	A	32	20				1680			VAV
	CU-1		1613				1	30	33	B	34	20					1200		VAV
	- - -			1613				"	35	C	36	20						1200	VAV
	- - -	1613						"	37	A	38	20				1500			SPRAY MIST
	EF-, EF-4		1100					20	39	B	40	0					—		SPACE ONLY
	EF-3			700				15	41	C	42	0						—	SPACE ONLY
	SUBTOTAL	11133	10233	9833												7860	7280	6280	

TOTAL ØA 18993 ØB 17513 ØC 16213

TOTAL LOAD 52719 WATTS AT 120/208 V.,3Ø, 4W.= 146.4 A.

HIGH PHASE 18993 WATTS AT 120 V.,1Ø, 2W.= 158.3 A. DATE 12/22/09

VOLTAGE	PHASE	WIRE	A.I.C.	PANEL	LOCATION	FEEDER	MOUNTING	MAINS	BUSSING	FEED
120/208	3	4	10,000	"LD"	ELECT. RM.	SEE SINGLE LIN	SURFACE	MLO	225 A	BOTTOM

	LOCATION	WATTAGE ØA	WATTAGE ØB	WATTAGE ØC	LTG	REC	MIS	BKR	CIR	Ø	CIR	BKR	MIS	REC	LTG	WATTAGE ØA	WATTAGE ØB	WATTAGE ØC	LOCATION
	DOG WARD	1080				6		20	1	A	2	20		2		1500			FOOD PREP
	EUTHANAISM		1000			2		20	3	B	4	20		1			900		GARB. DISP
	HALL, STOR			1000		3		20	5	C	6	20		1				1000	SANITIZER
	HALL, STOR	700					1	20	7	A	8	20		1		1000			FOOD PREP
	HWP-1		700				1	15	9	B	10	20		4			720		RON
	- - -			700			"		11	C	12	20	1					1000	DOOR FA
	- - -	700					"	3	13	A	14	15	1			400			EF-8
	HWP-2		700				1	15	15	B	16	20	7				1680		VAV
	- - -			700			"		17	C	18	20	7					1680	VAV
	- - -	700					"	3	19	A	20	0				—			SPACE ONLY
	SPACE ONLY		—					0	21	B	22	0					—		SPACE ONLY
	SPACE ONLY			—				0	23	C	24	0						—	SPACE ONLY
	SPACE ONLY	—						0	25	A	26	0				—			SPACE ONLY
	SPACE ONLY		—					0	27	B	28	0					—		SPACE ONLY
	SPACE ONLY			—				0	29	C	30	0						—	SPACE ONLY
	SPACE ONLY	—						0	31	A	32	0				—			SPACE ONLY
	SPACE ONLY		—					0	33	B	34	0					—		SPACE ONLY
	SPACE ONLY			—				0	35	C	36	0						—	SPACE ONLY
	SPACE ONLY	—						0	37	A	38	0				—			SPACE ONLY
	SPACE ONLY		—					0	39	B	40	0					—		SPACE ONLY
	SPACE ONLY			—				0	41	C	42	0						—	SPACE ONLY
	SUBTOTAL	3180	2400	2400												2900	3300	3680	

TOTAL ØA 6080 ØB 5700 ØC 6080

TOTAL LOAD 17860 WATTS AT 120/208 V.,3Ø, 4W.= 49.6 A.

HIGH PHASE 6080 WATTS AT 120 V.,1Ø, 2W.= 50.7 A. DATE 12/03/09

VOLTAGE	PHASE	WIRE	A.I.C.	PANEL	LOCATION	FEEDER	MOUNTING	MAINS	BUSSING	FEED
277/480	3	4	14,000	"EHB"	ELECTRIC ROOM	SEE SINGLE LINE	SURFACE	60A3P	100A	BOTTOM

	LOCATION	WATTAGE ØA	WATTAGE ØB	WATTAGE ØC	LTG	REC	MIS	BKR	CIR	Ø	CIR	BKR	MIS	REC	LTG	WATTAGE ØA	WATTAGE ØB	WATTAGE ØC	LOCATION
✱	CORRIDOR	1736			28			20	1	A	2	20			53	2812			EXTERIOR ✱
	SPACE ONLY		—					0	3	B	4	15	1				500		LIGHTING CONTROL
	SPACE ONLY			—				0	5	C	6	0						—	SPACE ONLY
	CORRIDOR	—						0	7	A	8	0				—			SPACE ONLY
	CORRIDOR		—					0	9	B	10	0					—		SPACE ONLY
	CORRIDOR			—				0	11	C	12	0						—	SPACE ONLY
	SUBTOTAL	1736	0	0												2812	500	0	

TOTAL ØA 4548 ØB 500 ØC 0

TOTAL LOAD 5048 WATTS AT 277/480 V.,3Ø, 4W.= 6.1 A.

HIGH PHASE 4548 WATTS AT 277 V.,1Ø, 2W.= 16.4 A. DATE 12/22/09

✱ = ROUTE CIRCUIT THROUGH TITLE 24 CONTROL PANEL

VOLTAGE	PHASE	WIRE	A.I.C.	PANEL	LOCATION	FEEDER	MOUNTING	MAINS	BUSSING	FEED
277/480	3	4	14,000	"EHA"	ELECT. RM.	SEE SINGLE LINE	SURFACE	400A3P	400 A	BOTTOM

	LOCATION	WATTAGE ØA	WATTAGE ØB	WATTAGE ØC	LTG	REC	MIS	BKR	CIR	Ø	CIR	BKR	MIS	REC	LTG	WATTAGE ØA	WATTAGE ØB	WATTAGE ØC	LOCATION
	SPARE	—						0	1	A	2	20				—			SPARE
	SPACE ONLY		—					0	3	B	4	20					—		SPARE
	SPACE ONLY			—				0	5	C	6	20						—	SPARE
	PANEL "ELA"	14200					1	45	7	A	8	15	1			480			EF-7
	- - -		12400				"		9	B	10		"				480		- - -
	- - -			11650			"	3	11	C	12	3	"					480	- - -
	A/C 2 EXH	1440					1	15	13	A	14	15	1			900			EF-6
	- - -		1440				"		15	B	16		"				900		- - -
	- - -			1440			"	3	17	C	18	3	"					900	- - -
	A/C 5	10249					1	50	19	A	20	45	1			7978			A/C 7
	- - -		10249				"		21	B	22		"				7978		- - -
	- - -			10249			"	3	23	C	24	3	"					7978	- - -
	SPACE ONLY	—						0	25	A	26	0				—			SPACE ONLY
	SPACE ONLY		—					0	27	B	28	0					—		SPACE ONLY
	SPACE ONLY			—				0	29	C	30	0						—	SPACE ONLY
	SPACE ONLY	—						0	31	A	32	0				—			SPACE ONLY
	SPACE ONLY		—					0	33	B	34	0					—		SPACE ONLY
	SPACE ONLY			—				0	35	C	36	0						—	SPACE ONLY
	SPACE ONLY	—						0	37	A	38	0				—			SPACE ONLY
	SPACE ONLY		—					0	39	B	40	0					—		SPACE ONLY
	SPACE ONLY			—				0	41	C	42	0						—	SPACE ONLY
	SUBTOTAL	25889	24089	23339												9358	9358	9358	

TOTAL ØA 35247 ØB 33447 ØC 32697

TOTAL LOAD 101391 WATTS AT 277/480 V.,3Ø, 4W.= 122.0 A.

HIGH PHASE 35247 WATTS AT 277 V.,1Ø, 2W.= 127.2 A. DATE 12/22/09

VOLTAGE	PHASE	WIRE	A.I.C.	PANEL	LOCATION	FEEDER	MOUNTING	MAINS	BUSSING	FEED
120/208	3	4	10,000	"ELA"	ELECT. RM.	SEE SINGLE LINE	SURFACE	150A 3P	225 A	BOTTOM

	LOCATION	WATTAGE ØA	WATTAGE ØB	WATTAGE ØC	LTG	REC	MIS	BKR	CIR	Ø	CIR	BKR	MIS	REC	LTG	WATTAGE ØA	WATTAGE ØB	WATTAGE ØC	LOCATION
	SURG LIGHTS	1000			2			20	1	A	2	20		4		1000			LOBBY
	SURG LIGHTS		1000		2			20	3	B	4	20		5			900		RECEPTION
	TELE/DATA			1000		1		20	5	C	6	20		1				1200	IT
	TELE/DATA	1000				1		20	7	A	8	20		1		1200			IT
	PREP. EXAM		1000			4		20	9	B	10	20		2			1500		IT
✱	EXAM			1000			1	20	11	C	12	20		2				1500	IT
	PREP	1500				1	1	20	13	A	14	20		1		1000			SURGERY
	FREEZER CUP		2000				1	30	15	B	16	20		1			1000		SURGERY
	- - -			2000			"		17	C	18	20		1				1000	SURGERY
	- - -	2000					"	3	19	A	20	20		2		1000			DISPATCH
	FREEZER COIL		1000				1	20	21	B	22	20		1			1000		- - -
	- - -			1000			"	2	23	C	24	20	1					1000	GATE MOTOR
	FREEZER LTS	1500					1	20	25	A	26	2	"			1000			- - -
	CARD ACCESS		500				1	15	27	B	28	20	1				1000		GATE MOTOR
	SPARE			—				20	29	C	30	2	"					1000	- - -
	CARD READER	1500					4	20	31	A	32	20	1			500			GATE KEYPAD
	SPRINKLER RISER		500				1	20	33	B	34	20		1			1000		MONITORS
	REFR.			450		1		20	35	C	36	0						—	SPACE ONLY
	SPACE ONLY	—						0	37	A	38	0				—			SPACE ONLY
	SPACE ONLY		—					0	39	B	40	0					—		SPACE ONLY
	SPACE ONLY			—				0	41	C	42	0						—	SPACE ONLY
	SUBTOTAL	8500	6000	5450												5700	6400	5700	

TOTAL ØA 14200 ØB 12400 ØC 11150

TOTAL LOAD 37750 WATTS AT 120/208 V.,3Ø, 4W.= 104.8 A.

HIGH PHASE 14200 WATTS AT 120 V.,1Ø, 2W.= 118.3 A. DATE 12/22/09

✱ = GFI TYPE BREAKER

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BID SET

JAN 19 2010

PREVAILING WAGE JOB

REGISTERED PROFESSIONAL ENGINEER GERALD L. GINZER No. E015691 Exp. 06-30-10 ELECTRICAL STATE OF CALIFORNIA

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FAX #676-9744

PALM SPRINGS ANIMAL CARE FACILITY

4575 E. MESQUITE AVE.
PALM SPRINGS, CA 92262

CITY OF PALM SPRINGS
PROJECT NO. CP. 07-24

APN: 680-020-010

Issue

Rev	Date	By	Description
1	11/23/09		BLDG. PERMIT SET
2	01/18/10		BID SET

Drawn By
Checked By
Job No.
Issue Date
Scale NTS

Reference North

Drawing Title

PANEL SHEDULES

E5.1

Sheet

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