

NO.	DATE	DESCRIPTION
	08/13/2018	PRICING
	08/31/2018	PERMIT

IVY KIDS EARLY LEARNING CENTER
 4434 CR 94
 Manvel, Tx 77578

MEP Consultants
 BLK Engineering & Consulting Co.
 3423 Spring Arbor Ln.
 Sugar Land, TX 77479
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 TBPE Firm #12672



08-31-2018

ELECTRICAL PANEL SCHEDULES

DRAWN BY FK	CHECKED BY CK
DATE 05/10/2018	JOB NO. SEDONA LAKES
DRAWING NO. E-5.0	

NOTE	PANEL: HA		VOLTAGE: 277/480		3 PH 4 W		AIC: 25,000		REMARKS:		NOTE	
	C**	WIRE*	LOAD DESCRIPTION	kVA	BKR	CKT	CKT	BKR	kVA	LOAD DESCRIPTION		WIRE*
	#10		LTG - CLASSROOM	3.10	20/1	1	2	125/3	14.00	XFMR 'TLA'		
	#10		LTG - LUNCHROOM	4.00	20/1	3	4	X	15.00	"		3
	#10		LTG - CORRIDOR, CLASSROOM	3.00	20/1	5	6	X	18.00	"		
	#10		LTG - CLASSROOM	3.30	20/1	7	8	225/3	35.00	PANEL 'HB'		3
	#10		LTG - ACTIVITY ROOM	2.60	20/1	9	10	X	35.00	"		
	#10		LTG - OUTDOOR	0.80	20/1	11	12	X	35.00	"		
2	#8		LTG - PARKING LOT	1.66	20/1	13	14	15/3	2.70	RTU-1		1
			SPARE		20/1	15	16	X	2.70	"		
			UH-1	3.00	20/1	17	18	X	2.70	"		
			SPARE		20/1	19	20	20/3	3.13	RTU-13		1
	#10		LTG - ELEC, MECH	0.20	20/1	21	22	X	3.13	"		
	#10		LTG - CANOPY	0.50	20/1	23	24	X	3.13	"		
2			UH-2	5.00	20/1	25	26	20/3	3.37	RTU-14		1
			UH-3	5.00	20/1	27	28	X	3.37	"		
			UH-4	5.00	20/1	29	30	X	3.37	"		
			UH-5	5.00	20/1	31	32	20/3	3.13	RTU-15		1
			SPARE		20/1	33	34	X	3.13	"		
			SPARE		20/1	35	36	X	3.13	"		
			SPARE		20/1	37	38	20/3		SPARE		
			SPARE		20/1	39	40	X		"		
			SPARE		20/1	41	42	X		"		

231.2	kVA CONNECTED
230.9	kVA DEMAND
277.9	AMPS DEMAND @ 480V

* ALL WIRING IS 2#12, 1#12G IN 3/4" C UNLESS OTHERWISE NOTED
 NOTES: 1. COORDINATE CIRCUIT BREAKER AND FEEDER SIZES WITH EQUIPMENT INSTALLED.
 2. ROUTE VIA LIGHTING CONTROLLER. 3. REFER TO ONE LINE DIAGRAM FOR FEEDER SIZE.

NOTE	PANEL: HB		VOLTAGE: 277/480		3 PH 4 W		AIC: 25,000		REMARKS:		NOTE	
	C**	WIRE*	LOAD DESCRIPTION	kVA	BKR	CKT	CKT	BKR	kVA	LOAD DESCRIPTION		WIRE*
1			RTU-2	2.70	15/3	1	2	20/3	3.13	RTU-9		1
			"	2.70	X	3	4	X	3.13	"		
			"	2.70	X	5	6	X	3.13	"		
1			RTU-3	2.70	15/3	7	8	20/3	3.37	RTU-10		1
			"	2.70	X	9	10	X	3.37	"		
			"	2.70	X	11	12	X	3.37	"		
1			RTU-4	3.13	20/3	13	14	20/3	3.37	RTU-11		1
			"	3.13	X	15	16	X	3.37	"		
			"	3.13	X	17	18	X	3.37	"		
1			RTU-5	3.13	20/3	19	20	20/3	3.37	RTU-12		1
			"	3.13	X	21	22	X	3.37	"		
			"	3.13	X	23	24	X	3.37	"		
1			RTU-6	3.13	20/3	25	26	20/3		SPARE		
			"	3.13	X	27	28	X		"		
			"	3.13	X	29	30	X		"		
1			RTU-7	3.13	20/3	31	32			SPACE		
			"	3.13	X	33	34			SPACE		
			"	3.13	X	35	36			SPACE		
1			RTU-8	3.13	20/3	37	38			SPACE		
			"	3.13	X	39	40			SPACE		
			"	3.13	X	41	42			SPACE		

102.9	kVA CONNECTED
102.9	kVA DEMAND
123.8	AMPS DEMAND @ 480V

* ALL WIRING IS 2#12, 1#12G IN 3/4" C UNLESS OTHERWISE NOTED
 NOTES: 1. COORDINATE CIRCUIT BREAKER AND FEEDER SIZES WITH EQUIPMENT INSTALLED.

NOTE	PANEL: LA		VOLTAGE: 120/208		3 PH 4 W		AIC: 10,000		REMARKS:		NOTE	
	C**	WIRE*	LOAD DESCRIPTION	kVA	BKR	CKT	CKT	BKR	kVA	LOAD DESCRIPTION		WIRE*
			RECPT - OUTSIDE	0.90	20/1	1	2	20/1	0.50	RECPT - LUNCHROOM		
			RECPT - OUTSIDE	1.10	20/1	3	4	20/1	0.20	RECPT - KITCHEN		
			RECPT	1.26	20/1	5	6	20/1	0.50	RECPT - KITCHEN		
			REFRIGERATOR	1.40	20/1	7	8	20/1	1.40	WATER FOUNTAIN		
			FREEZER	1.20	20/1	9	10	20/1	0.70	RECPT - OFFICE		
			FREEZER	1.20	20/1	11	12	20/1	1.30	RECPT - CLASSROOM		
			RECPT - KITCHEN	0.40	20/1	13	14	20/1	0.70	RECPT - CLASSROOM		
			RECPT - KITCHEN	0.40	20/1	15	16	20/1	0.90	RECPT - CLASSROOM		
			RECPT - KITCHEN	0.40	20/1	17	18	20/1	0.90	RECPT - ACTIVITY		
			RECPT - OFFICE	1.40	20/1	19	20	20/1	1.30	RECPT - ACTIVITY		
			RECPT - KITCHEN	0.50	20/1	21	22	20/1	0.70	RECPT - KITCHEN		
	#10		DRYER	2.50	30/2	23	24	20/1	1.40	REFRIGERATOR		
			"	2.50	X	25	26	20/1	1.00	RECPT - LEARNING		
			WASHER	0.20	20/1	27	28	20/1	1.70	RECPT - CLASSROOM		
			SPARE		20/1	29	30	20/1	1.50	RECPT - CLASSROOM		
			FRONT DOOR LOCK	1.00	20/1	31	32	20/1	0.60	LTG - OUTDOOR		
			RECPT - FRONT	1.10	20/1	33	34	20/1	1.40	REFRIGERATOR		
			RECPT - OFFICE	1.10	20/1	35	36	20/1	0.50	WATER HEATER		
			FACP	0.50	20/1	37	38	100/3	3.00	PANEL LB		2
	#8		ELECTRIC RANGE	4.00	50/2	39	40	X	5.00	"		
			"	4.00	X	41	42	X	4.00	"		

56.3	kVA CONNECTED
51.2	kVA DEMAND
142.2	AMPS DEMAND @ 208V

* ALL WIRING IS 2#12, 1#12G IN 3/4" C UNLESS OTHERWISE NOTED
 NOTES: 1. PROVIDE GFCI TYPE CIRCUIT BREAKER OR RECEPTACLE. 2. REFER TO ONE LINE DIAGRAM FOR FEEDER SIZES.
 3. COORDINATE SIZE OF CIRCUIT BREAKER AND FEEDER WITH THE ACTUAL EQUIPMENT INSTALLED.

NOTE	PANEL: LB		VOLTAGE: 120/208		3 PH 4 W		AIC: 10,000		REMARKS:		NOTE	
	C**	WIRE*	LOAD DESCRIPTION	kVA	BKR	CKT	CKT	BKR	kVA	LOAD DESCRIPTION		WIRE*
			THEATRE CONTROLS	0.40	20/1	1	2	20/1		SPARE		
			PROJECTOR	0.50	20/1	3	4	20/1		SPARE		
			SPARE		20/1	5	6	20/1		SPARE		
			SPARE		20/1	7	8			SPACE		
			SPARE		20/1	9	10			SPACE		
			SPARE		20/1	11	12			SPACE		
			SPARE		20/1	13	14			SPACE		
			SPARE		20/1	15	16			SPACE		
			SPARE		20/1	17	18			SPACE		
			SPARE		20/1	19	20			SPACE		
			SPARE		20/1	21	22			SPACE		
			SPARE		20/1	23	24			SPACE		
			SPARE		20/1	25	26			SPACE		
	#8		DIGITAL SIGN	2.00	30/1	27	28			SPACE		
	#8		CONTROLS DIGITAL SIGN	0.50	20/1	29	30			SPACE		
1			SIGNAGE	1.00	20/1	31	32			SPACE		
1			LIGHTS - EXTERIOR	0.16	20/1	33	34	20/1	1.08	RECPT - ROOF SERVICE	#10	
			RECPT - ELEC	0.18	20/1	35	36	20/1	1.18	EF-C	#10	
			SIGN FOUNTAIN	0.50	20/1	37	38	20/1		SPARE		
			LIGHTING CONTACTOR	0.50	20/1	39	40	20/1		SPARE		
			RECPT - TELECOM	0.40	20/1	41	42	20/1		SPARE		

8.4	kVA CONNECTED
9.2	kVA DEMAND
25.5	AMPS DEMAND @ 208V

* ALL WIRING IS 2#12, 1#12G IN 3/4" C UNLESS OTHERWISE NOTED
 NOTES: 1. ROUTE VIA LIGHTING CONTROLLER.