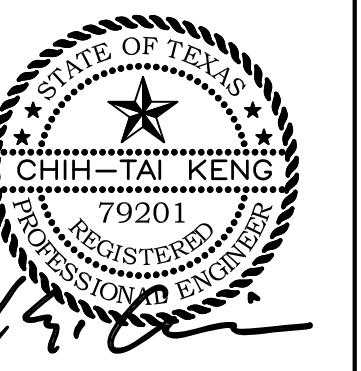


REVISIONS AND ISSUANCE

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  
 (1) 832 563 3127  
 TBPE Firm #12672



08-31-2018

DRAWING TITLE

**ELECTRICAL  
PANEL  
SCHEDULES**

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

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		"		

\* 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.

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

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		

\* 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.

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

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	"		

\* 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.

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

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		

\* ALL WIRING IS 2#12, 1#12G IN 3/4" C UNLESS OTHERWISE NOTED

NOTES: 1. ROUTE VIA LIGHTING CONTROLLER.

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