

REVISIONS AND ISSUANCE		
NO.	DATE	DESCRIPTION
1	08/13/2018	PRICING

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

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 TBPE Firm #12672

THESE DOCUMENTS ARE
 FOR INTERIM REVIEW AND NOT
 FOR CONSTRUCTION, BIDDING
 OR PERMIT PURPOSES.
 RESPONSIBLE ENGINEER:
 CHH-TAI KENG
 79201
 08-13-2018

DRAWING TITLE
**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		
			MAINS: 400 AMPS		<input type="checkbox"/> MLO	<input type="checkbox"/> MCB	<input type="checkbox"/> SURFACE	<input type="checkbox"/> FLUSH					
			LUGS: <input type="checkbox"/> SUB-FEED <input type="checkbox"/> FEED-THRU		<input type="checkbox"/> NEMA1	<input type="checkbox"/> NEMA3R							
	C**	WIRE*	LOAD DESCRIPTION	kVA	BKR	CKT	CKT	BKR	kVA	LOAD DESCRIPTION	WIRE*	C**	
		#10	LTG - CLASSROOM	3.10	20/1	1	2	125/3	14.00	XFMR 'TLA'			3
		#10	LTG - LUNCHROOM	4.00	20/1	3	4	X	15.00	"			
		#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	"			
			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	
			MAINS: 225 AMPS		<input type="checkbox"/> MLO	<input type="checkbox"/> MCB	<input type="checkbox"/> SURFACE	<input type="checkbox"/> FLUSH				
			LUGS: <input type="checkbox"/> SUB-FEED <input type="checkbox"/> FEED-THRU		<input type="checkbox"/> NEMA1	<input type="checkbox"/> NEMA3R						
	C**	WIRE*	LOAD DESCRIPTION	kVA	BKR	CKT	CKT	BKR	kVA	LOAD DESCRIPTION	WIRE*	C**
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	
			MAINS: 225 AMPS		<input type="checkbox"/> MLO	<input type="checkbox"/> MCB	<input type="checkbox"/> SURFACE	<input type="checkbox"/> FLUSH				
			LUGS: 3 <input type="checkbox"/> SUB-FEED <input type="checkbox"/> FEED-THRU		<input type="checkbox"/> NEMA1	<input type="checkbox"/> NEMA3R						
	C**	WIRE*	LOAD DESCRIPTION	kVA	BKR	CKT	CKT	BKR	kVA	LOAD DESCRIPTION	WIRE*	C**
			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	
			MAINS: 100 AMPS		<input type="checkbox"/> MLO	<input type="checkbox"/> MCB	<input type="checkbox"/> SURFACE	<input type="checkbox"/> FLUSH				
			LUGS: <input type="checkbox"/> SUB-FEED <input type="checkbox"/> FEED-THRU		<input type="checkbox"/> NEMA1	<input type="checkbox"/> NEMA3R						
	C**	WIRE*	LOAD DESCRIPTION	kVA	BKR	CKT	CKT	BKR	kVA	LOAD DESCRIPTION	WIRE*	C**
			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.