

REVISIONS AND ISSUANCE		
NO.	DATE	DESCRIPTION
1	04/01/2019	ARC PHASE 1

IVY KIDS EARLY LEARNING CENTER
 LOT COM2I
 CROSS CREEK RANCH
 6407 CROSS CREEK BEND LANE
 FULSHEAR, TX 77441

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



DRAWING TITLE
ELECTRICAL PANEL SCHEDULES
 DRAWN BY: FK
 CHECKED BY: CK
 DATE: 04/17/2019
 JOB NO.: FULSHEAR
 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	"		
2	#10	LTG - OUTDOOR	0.80	20/1	11	12	X	35.00	"		
2	#8	LTG - PARKING LOT	0.64	20/1	13	14	15/3	2.70	RTU-1		1
2	#8	LTG - PARKING LOT	0.71	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	"		
2	#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		"		

230.8	kVA CONNECTED
230.6	kVA DEMAND
277.4	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:		<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		
		SPACE			13	14			SPACE		
		SPACE			15	16			SPACE		
		SPACE			17	18			SPACE		
		SPACE			19	20			SPACE		
		SPACE			21	22			SPACE		
		SPACE			23	24			SPACE		
		SPACE			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		SPACE		
		LIGHTING CONTACTOR	0.50	20/1	39	40	20/1		SPACE		
		RECPT - TELECOM	0.40	20/1	41	42	20/1		SPACE		

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.