

MFG SQUARE 'D'		TYPE EXISTING KEY NOTES: 1, 2											PANEL RATING		225 AMPS		
VOLTS 120/240V 1Ø3W		PANEL 'A'															
BUS A (KVA)	BUS C (KVA)	LOAD	KEY NOTES	COND	WIRE SIZE	GND	AMPS	CKT	CKT	AMPS	GND	WIRE SIZE	COND	KEY NOTES	LOAD	BUS A (KVA)	BUS C (KVA)
1.0	0.2	BATHROOM GFI RECEPT.		1/2"	12	12	20	1	2	20	12	12	1/2"		LIGHTING	0.6	
		LIGHTING		1/2"	12	12	20	3	4	20	12	12	1/2"		LIGHTING		0.6
0.5		CEILING FAN		1/2"	12	12	20	5	6	20	12	12	1/2"		CHANDALIFERS	0.8	
	0.5	EXIST. MEETING RM TV		1/2"	12	12	20	7	8	20	12	12	1/2"		GENERATOR BATTERY CHARGER		0.5
1.0		EXISTING LOAD		1/2"	12	12	20	9	10	20	12	12	1/2"		EXISTING LOAD	1.0	
1.0	1.0	EXISTING LOAD		1/2"	12	12	20	11	12	20	12	12	1/2"		EXISTING LOAD		1.0
		EXISTING LOAD		1/2"	12	12	20	13	14	-	-	-	-		SPACE		
		SPACE		-	-	-	-	15	16	-	-	-	-		SPACE		
		SPACE	3	1"	6	10	60	17	18	-	-	-	-		SPACE		
		SPACE		-	-	-	-	19	20	-	-	-	-		SPACE		
		SPACE		-	-	-	-	21	22	-	-	-	-		SPACE		
		SPACE		-	-	-	-	23	24	-	-	-	-		SPACE		
TOTALS																	
KVA Φ _A	KVA Φ _C	REMARKS & KEY NOTES															
5.9	3.8	1. MAIN LUGS ONLY. ELECTRICAL CONTRACTOR SHALL PROVIDE AN ACCURATE PER FIELD CONDITIONS, TYPED UP PANEL SCHEDULE UPON COMPLETION OF THE PROJECT. 2. VERIFY ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PRIOR TO CONSTRUCTION; ALL KITCHEN EQUIPMENT'S ELECTRICAL REQUIREMENTS SHALL BE CONFIRMED WITH MFG SPECS. VERIFY VOLTAGE, AMPERAGE, AND BREAKER SIZES. 3. SPARE BREAKERS MAY BE USED FOR NEW OR MODIFIED BRANCH CIRCUITS IF AVAILABLE AND IF THEY MEET THE BRANCH CIRCUIT CRITERIA.															
LOAD CALCULATIONS PER NEC 220																	
LIGHTING	2.2	AT 125%	2.7														
LARGEST MOTOR	0.0	AT 125%	0														
WATER HEATER	0.0	AT 125%	0														
KITCHEN EQUIPMENT	0.0	AT 65%	0														
REMAINDER OF LOADS		AT 100%	7.5														
TOTAL KVA		10.2															
TOTAL AMPS		42.4															
* SEE POWER RISER FOR WIRE & CONDUIT SIZES																	
MOUNT SURFACE MIN A.I.C. 22,000 AMPS SERIES RATED																	

MFG SQUARE 'D'		TYPE EXISTING KEY NOTES: 1, 2											PANEL RATING		225 AMPS		
VOLTS 120/240V 1Ø3W		PANEL 'B'															
BUS A (KVA)	BUS C (KVA)	LOAD	KEY NOTES	COND	WIRE SIZE	GND	AMPS	CKT	CKT	AMPS	GND	WIRE SIZE	COND	KEY NOTES	LOAD	BUS A (KVA)	BUS C (KVA)
0.5		KITCHEN COUNTER RECEPT		1/2"	12	12	20	1	2	60	EX	EX	EX	EX	3	SPARE	0.0
	0.5	KITCHEN GARBAGE DISPOSAL		1/2"	12	12	20	3	4	-	-	-	-				0.0
3.0		EXISTING AIR HANDLER		EX	EX	EX	50	5	6	15	14	12	1/2"		REFRIGERATOR	1.0	1.0
	3.0							7	8	20	12	12	1/2"		MICROWAVE	3.0	1.0
2.0		EXISTING WATER HEATER		EX	EX	EX	30	9	10	40	EX	EX	EX		EXISTING AIR HANDLER		3.0
	2.0							11	12	-	-	-	-				
6.7		EXISTING PANEL "D" TENNIS BUILD.		EX	EX	EX	60	13	14	60	10	6	1"		OVEN		
	6.3							15	16	-	-	-	-				
0.8		EXISTING HAND DRYERS		EX	EX	EX	20	17	18	60	EX	EX	EX	3	SPARE	0.0	
	0.8	EXISTING HAND DRYERS		EX	EX	EX	20	19	20	-	-	-	-				0.0
0.8		KITCHEN COUNTER RECEPT		1/2"	12	12	20	21	22	20	12	12	1/2"		TELEPHONE BOARD		
		SPACE		-	-	-	-	23	24	-	-	-	-		SPACE		
TOTALS																	
KVA Φ _A	KVA Φ _C	REMARKS & KEY NOTES															
17.8	16.6	1. MAIN LUGS ONLY. ELECTRICAL CONTRACTOR SHALL PROVIDE AN ACCURATE PER FIELD CONDITIONS, TYPED UP PANEL SCHEDULE UPON COMPLETION OF THE PROJECT. 2. VERIFY ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PRIOR TO CONSTRUCTION; ALL KITCHEN EQUIPMENT'S ELECTRICAL REQUIREMENTS SHALL BE CONFIRMED WITH MFG SPECS. VERIFY VOLTAGE, AMPERAGE, AND BREAKER SIZES. 3. SPARE BREAKERS MAY BE USED FOR NEW OR MODIFIED BRANCH CIRCUITS IF AVAILABLE AND IF THEY MEET THE BRANCH CIRCUIT CRITERIA.															
LOAD CALCULATIONS PER NEC 220																	
LIGHTING	0.0	AT 125%	0														
LARGEST MOTOR	6.0	AT 125%	7.5														
WATER HEATER	4.0	AT 125%	5														
KITCHEN EQUIPMENT	0.0	AT 65%	0														
REMAINDER OF LOADS		AT 100%	24.4														
TOTAL KVA		36.9															
TOTAL AMPS		153.8															
* SEE POWER RISER FOR WIRE & CONDUIT SIZES																	
MOUNT RECESSED MIN A.I.C. 22,000 AMPS SERIES RATED																	

MFG SQUARE 'D' OR EQUAL		TYPE EXISTING KEY NOTES: 1, 2											PANEL RATING		400 AMPS		
VOLTS 120/240V 1Ø3W		PANEL 'C'															
BUS A (KVA)	BUS C (KVA)	LOAD	KEY NOTES	COND	WIRE SIZE	GND	AMPS	CKT	CKT	AMPS	GND	WIRE SIZE	COND	KEY NOTES	LOAD	BUS A (KVA)	BUS C (KVA)
0.6		AEROBICS LIGHTING		1/2"	12	12	20	1	2	20	12	12	1/2"		AEROBICS FANS	1.0	
	0.8	BATH AND HALLWAY LIGHTS		1/2"	12	12	20	3	4	20	12	12	1/2"		FITNESS FANS	1.0	1.0
1.0		FITNESS FANS		1/2"	12	12	20	5	6	20	12	12	1/2"		FITNESS FANS	1.0	
	1.0	HALLWAY FANS		1/2"	12	12	20	7	8	20	12	12	1/2"		PATIO FANS		1.2
1.2		PATIO FANS		1/2"	12	12	20	9	10	20	12	12	1/2"		PATIO LIGHTS	0.8	
	0.7	PATIO LIGHTS		1/2"	12	12	20	11	12	20	12	12	1/2"	7	DRINKING FOUNTAINS		1.0
0.9		RECEPTACLES		1/2"	12	12	20	13	14	20	12	12	1/2"		FITNESS RECEPTACLES	0.7	
	0.8	FITNESS BIKES		1/2"	12	12	20	15	16	20	12	12	1/2"		FITNESS BIKES		0.8
0.8		FITNESS ELLIPTICAL		1/2"	12	12	20	17	18	20	12	12	1/2"		FITNESS ELLIPTICAL	0.8	
1.0		FITNESS TREADMILL		1/2"	12	12	20	19	20	20	12	12	1/2"		FITNESS TREADMILL		1.0
	1.0	FITNESS TREADMILL		1/2"	12	12	20	21	22	20	12	12	1/2"		AEROBICS RECEPTACLES	0.7	
2.2		WATER HEATER		1/2"	10	10	30	23	24	60	10	6	1"	4	AHU-1		5.6
	(3.5)							25	26	-	-	-	-				
		CU-1	4	1"	6	10	60	27	28	20	12	12	1/2"	4	MCU-1		1.4
								29	30	-	-	-	-				
1.0		GENERAL GENERATOR REC.		1/2"	12	12	20	31	32	20	12	12	1/2"	7	PATIO DRINKING FOUNTAIN		0.8
	0.8	GENERAL REC.		1/2"	12	12	20	33	34	-	-	-	-		SPACE		
0.8		HAND DRYER		1/2"	12	12	20	35	36	-	-	-	-		SPACE		
		HAND DRYER		-	-	-	-	37	38	-	-	-	-		SPACE		
		SPACE		-	-	-	-	39	40	-	-	-	-	6	SPD		
		SPACE		-	-	-	-	41	42	-	-	-	-				
TOTALS																	
KVA Φ _A	KVA Φ _C	REMARKS & KEY NOTES															
21.5	20.3	1. MAIN LUGS ONLY. ELECTRICAL CONTRACTOR SHALL PROVIDE AN ACCURATE PER FIELD CONDITIONS, TYPED UP PANEL SCHEDULE UPON COMPLETION OF THE PROJECT. 2. VERIFY ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PRIOR TO CONSTRUCTION; ALL KITCHEN EQUIPMENT'S ELECTRICAL REQUIREMENTS SHALL BE CONFIRMED WITH MFG SPECS. VERIFY VOLTAGE, AMPERAGE, AND BREAKER SIZES. 3. NOT USED 4. PROVIDE "MACR" RATED CIRCUIT BREAKER. 5. PROVIDE RED HANDLE WITH BREAKER LOCK 6. 100 KA SPD PER VENDOR REQUIREMENTS 7. PROVIDE "GFCI" RATED CIRCUIT BREAKER															
LOAD CALCULATIONS PER NEC 220																	
LIGHTING	2.9	AT 125%	3.6														
LARGEST MOTOR	11.2	AT 125%	14														
WATER HEATER	4.4	AT 125%	5.5														
KITCHEN EQUIPMENT	0.0	AT 65%	0														
REMAINDER OF LOADS		AT 100%	23.3														
TOTAL KVA		46.4															
TOTAL AMPS		193.4															
* SEE POWER RISER FOR WIRE & CONDUIT SIZES																	
MOUNT RECESSED MIN A.I.C. 22,000 AMPS SERIES RATED																	

MFG SQUARE 'D'		TYPE EXISTING KEY NOTES: 1, 2											PANEL RATING		100 AMPS		
VOLTS 120/240V 1Ø3W		PANEL 'D'															
BUS A (KVA)	BUS C (KVA)	LOAD	KEY NOTES	COND	WIRE SIZE	GND	AMPS	CKT	CKT	AMPS	GND	WIRE SIZE	COND	KEY NOTES	LOAD	BUS A (KVA)	BUS C (KVA)
1.5		EXISTING CIRCUIT		3/4"	8	10	40	1	2	20	12	12	1/2"		TENNIS BLDG OFFICE COPIER	1.0	
	1.5							3	4	20	12	12	1/2"		EXIST. CIRCUIT	0.3	0.6
1.5		EXISTING CIRCUIT		3/4"	8	10	40	5	6	20	12	12	1/2"		EXIST. CIRCUIT	0.3	
	1.5							7	8	20	12	12	1/2"		TENNIS BLDG. OFFICE		0.3
1.0		TENNIS BLDG. OFFICE RECEPTACLES		1/2"	12	12	20	9	10	20	12	12	1/2"		MCU-2	1.4	
	1.0	WATER COOLERS		1/2"	12	12	20	11	12	-	-	-	-			1.4	1.4
TOTALS																	
KVA Φ _A	KVA Φ _C	REMARKS & KEY NOTES															
6.7	6.3	1. 2P-100AMP MAIN CIRCUIT BREAKER. ELECTRICAL CONTRACTOR SHALL PROVIDE AN ACCURATE PER FIELD CONDITIONS, TYPED UP PANEL SCHEDULE UPON COMPLETION OF THE PROJECT. 2. VERIFY ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PRIOR TO CONSTRUCTION; ALL KITCHEN EQUIPMENT'S ELECTRICAL REQUIREMENTS SHALL BE CONFIRMED WITH MFG SPECS. VERIFY VOLTAGE, AMPERAGE, AND BREAKER SIZES.															
LOAD CALCULATIONS PER NEC 220																	
LIGHTING	1.2	AT 125%	1.5														
LARGEST MOTOR	2.8	AT 125%	3.5														
WATER HEATER	0.0	AT 125%	0														
KITCHEN EQUIPMENT	0.0	AT 65%	0														
REMAINDER OF LOADS		AT 100%	9.0														
TOTAL KVA		14.0															
TOTAL AMPS		58.3															
* SEE POWER RISER FOR WIRE & CONDUIT SIZES																	
MOUNT SURFACE MIN A.I.C. 22,000 AMPS SERIES RATED																	

REVISIONS	BY

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PERMIT SET: 07/21/16

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 DESIGNED BY: DB/FR/AB PM: KS P/N: 16104

PRIOR TO SUBMITTING THE BID, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND INFORM THE ARCHITECT AND THE ENGINEER OF ANY DISCREPANCY BETWEEN THESE DOCUMENTS AND THE EXISTING CONDITIONS AND SHALL INCLUDE IN THE BID TO CORRECT THE SAME AS DIRECTED. THE ENGINEER AND THE ARCHITECT, ARE NOT RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING FROM VERIFIABLE EXISTING CONDITIONS DISCOVERED AFTER CONTRACT HAS BEEN AWARDED. NO CHANGES SHALL BE MADE TO THESE PLANS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD. ALL CHANGES SHALL BE SUBMITTED FOR REVIEW PRIOR TO INSTALLATION. NOT FOR BID UNTIL PERMIT HAS BEEN ISSUED.

DRAWN DB/FR/AB
 CHECKED UI/SR/DA/UB
 DATE 07-21-16
 SCALE AS NOTED
 JOB NO. 16104
 SHEET

E4.1

PERMIT - 7-21-16

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