

## GENERAL ELECTRICAL NOTES

1. DO NOT SCALE THE ELECTRICAL DRAWINGS. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION OF ALL EQUIPMENT. CONTRACTOR WITH OWNERS REPRESENTATIVE.
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE NFPA-70 (2008), THE LIFE SAFETY CODE NFPA-101 (2006), BUILDING CODE (FBC 2007 WITH 2009 SUPPLEMENTS).
3. MINIMUM WIRE SIZE SHALL BE #12 AWG, EXCLUDING CONTROL WIRING. INSULATION.
4. DUCTILE BOXES SHALL BE SHEET STEEL, IN DRY LOCATIONS, CAST ALUMY WITH THREADED BUSHES IN WET OR DAMP LOCATIONS AND SPECIAL ENCLOSURES AS REQUIRED FOR OTHER CLASSIFIED AREAS.
5. DISCONNECT SWITCHES SHALL BE HP RATED, HEAVY DUTY, QUICK-MAKE, QUICK-BREAK, WITH ENCLOSURES AS REQUIRED BY EXPOSURE.
6. MOTOR STARTERS SHALL BE MANUAL OR MAGNETIC, WITH OVERLOAD RELAYS IN EACH HOT LEG.
7. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM, AND FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
8. ELECTRICAL SYSTEM SHALL BE COMPLETE AND EFFECTIVELY GROUNDING AS REQUIRED BY THE LATEST EDITION OF THE N.E.C.
9. ALL MATERIALS SHALL BE NEW AND BEAR UNDERWRITERS' LABELS WHERE APPLICABLE.
10. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS WORKMANSHIP MANNER.
11. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
12. CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE.
13. CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ADDITIONAL CHARGE AND SHALL INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
14. ALL REQUIRED INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY AND PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
15. CONTRACTOR SHALL PAY FOR ALL PERMITS, FEES, INSPECTIONS, AND TESTING.
16. THE ELECTRICAL INSTALLATION SHALL MEET ALL STANDARD REQUIREMENTS OF POWER AND TELEPHONE COMPANIES.
17. FURNISH AND INSTALL DISCONNECT SWITCHES AND WIRING FOR AIR CONDITIONING SYSTEM AS PER MANUFACTURERS RECOMMENDATIONS. CONTROL ARE TO BE SUPPLIED BY AIR CONDITIONING CONTRACTOR AND CONNECTED BY ELECTRICAL CONTRACTOR.
18. ALL RACEWAYS UNDERGROUND SHALL BE A MINIMUM OF 3/4" CONDUIT.
19. ALL CIRCUIT BREAKERS, TWO AND THREE POLE, TO BE COMMON TRIP, NO TIE HANDLES, OR TRIPBARS WILL BE ADAPTED.
20. ALL FUSES, UNLESS NOTED ON DRAWING, SHALL BE CURRENT LIMITING (C.L.) RATED FOR 600/800 A.I.C.
21. ALL ELECTRICAL EQUIPMENT, DEVICES, WIRE, ETC., SHALL BE LISTED, AND THE LISTING MUST BE BY AN UNDERWRITERS LABORATORIES, INC. (UL), WHERE STANDARDS HAVE BEEN ESTABLISHED BY UL.
22. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN ON SITE A DETAILED LIST OF THE EQUIPMENT, MATERIALS, AND METHODS USED IN THE INSTALLATION. PROVIDE A NEATLY DRAWN COMPREHENSIVE AS-BUILT SET OF PLANS UPON COMPLETION, WHICH ARE SUITABLE FOR SUBMISSION TO THE BUILDING DEPARTMENT AND THE OWNER.
23. ALL WIRING IS TO BE IN CONDUIT. CABLES ARE NOT ACCEPTABLE UNLESS APPROVED PRIOR TO BID BY THE LANDLORD.

TYPE:	ITE G4	MAIN BUS: 225 AMP					
SERVICE:	120/208, 3Ø, 4W	NEUTRAL: FULL					
MOUNTING:	FLUSH	MAINS: LUGS ONLY					
POLES:	42	A.I.C. 10K					
DEM. KVA	OTHER KVA	TRIP-POLE	CON-DUIT	WIRE	REMARKS	DEM. KVA	OTHER KVA
1.4		20-1	12	12	SPARE	1	2
1.2					LIGHTING	3	4
					SPARE	5	6
					SPARE	7	8
					SPARE	9	10
					SPARE	11	12
					SPARE	13	14
0.9					POWER POLES	15	16
						17	18
						19	20
						21	22
						23	24
						25	26
						27	28
						29	30
						31	32
						33	34
						35	36
						37	38
						39	40
1.2					MICROWAVE	41	42
12.9							
2.6							
CONTINUOUS LOAD: 2.6 X 1.25 = 3.3 KVA							
NON-CONTINUOUS LOAD: 29.4 KVA							
TOTAL: 32.7 KVA = 91 AMPS							
16.9							

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										SERVICE:	120/208,	3Ø, 4W
										MOUNTING:	FLOOSH	
										PANELS:	42	
										A.I.C.	10K	
										MAINS:	LUGS ONLY	
										MAIN BUS:	225 AMP	
										NEUTRAL:	FULL	
										DEM.	OTHER KVA	
DEM.	TRIP-POLE	CON-DUIT	WIRE	REMARKS	CCT NOL.	CCT#	REMARKS	WIRE CON-DUIT	TRIP-POLE	OTHER KVA		
12	20-1			LIGHTING	1	2	RECEPTACLES		20-1	0.9		
					3	4						
					5	6						
					7	8						
0.9				POWER POLES	9	10						
					11	12						
					13	14						
					15	16						
					17	18						
					19	20						
					21	22						
					23	24	SPARE					
					25	26	RECEPTACLES					0.9
					27	28						
					29	30						
				SPARE	31	32						
1.1			1/2 12	LIGHTING	33	34						
0.9				RECEPTACLES	35	36						
0.9					37	38	HUB CLOSETS					0.6
1.1	20-1				39	40	BATH RECEPT					0.6
0.9	20-1				41	42	DODR MOTOR					0.6
5.9	13.7											17.1
CONTINUOUS LOAD: 5.9 X 1.25 = 7.4 KVA										NON-CONTINUOUS LOAD: 30.8 KVA		
TOTAL :										38.2 KVA = 106 AMPS		

ALL PANELS ARE EXISTING

- ① EXISTING CIRCUIT TO REMAIN AS IS.
- ② EXISTING CIRCUIT TO BE MODIFIED AS SHOWN ON FLOOR PLANS.
- ③ EXISTING CIRCUIT TO BE REMOVED.
- ④ PROVIDE NEW CIRCUIT BREAKER, MATCH EXISTING BREAKERS.
- ⑤ CONNECT TO SPARE EXISTING CIRCUIT BREAKERS.