



FIRE ALARM RISER DIAGRAM

PANEL BOARD 'A' SCHEDULE

BRANCH CIRCUIT DESCRIPTION	POLES / I / VOLT / L / VOLT / L / VOLT / L	PHASE / I / VOLT / L / VOLT / L / VOLT / L	BRANCH CIRCUIT DESCRIPTION
PANEL A - SECTION 1			
RECEP WARMER	1 / 2		WALK-IN REFRIGERATOR
RECEP WARMER	3 / 4		ROLL-IN REFRIGERATOR
RECEP WARMER	5 / 6		COFFEE MAKER
RECEP WARMER	7 / 8		COFFEE MAKER
KITCHEN DUPLEX	9 / 10		ICE MAKER
KITCHEN DUPLEX	11 / 12		ICE MAKER
STEAMER	13 / 14		KITCHEN DUPLEX
	15 / 16		IG DUPLEX-ATM
KITCHEN DUPLEX	17 / 18		GFI DUPLEX-PAYPHONE
KITCHEN DUPLEX	19 / 20		
KITCHEN DUPLEX	21 / 22		
ROLL WARMER	23 / 24		
CASH DRAWER	25 / 26		
KITCHEN DUPLEX	27 / 28		DAMPERS
KITCHEN DUPLEX	29 / 30		EXHAUST FAN
CASH DRAWER	31 / 32		WOMENS HAND DRYER
ROLL WARMER	33 / 34		WOMENS HAND DRYER
KITCHEN DUPLEX	35 / 36		MENS HAND DRYER
KITCHEN DUPLEX	37 / 38		WOMENS HAND DRYER
KITCHEN DUPLEX	39 / 40		MENS HAND DRYER
KITCHEN DUPLEX	41 / 42		WOMENS HAND DRYER
PANEL A - SECTION 2			
	43 / 44		FRONT COLUMN DUPLEX
	45 / 46		FRONT COLUMN DUPLEX
	47 / 48		FRONT COLUMN DUPLEX
	49 / 50		FRONT COLUMN DUPLEX
	51 / 52		FRONT COLUMN DUPLEX
	53 / 54		FRONT COLUMN DUPLEX
	55 / 56		FRONT COLUMN DUPLEX
	57 / 58		FRONT COLUMN DUPLEX
	59 / 60		FRONT COLUMN DUPLEX
	61 / 62		EXTERIOR GFI DUPLEX
	63 / 64		ROOF GFI DUPLEX
	65 / 66		IG DUPLEX-ATM
	67 / 68		BUILDING EAST LIGHTS
	69 / 70		TIME CLOCK
	71 / 72		WOMENS RR EMERGENCY NL
	73 / 74		ROOF LIGHTS
	75 / 76		ROOF LIGHTS
	77 / 78		FRONT RR LIGHTS
	79 / 80		MENS RR EMERGENCY NL
	81 / 82		TIME CLOCK
	83 / 84		FIRE ALARM PANEL

ELECTRICAL POWER NOTES

- GENERAL: VERIFY EXACT LOCATION OF OUTLETS AND DEVICES WITH ARCHITECT PRIOR TO INSTALLATION. PROVIDE OUTLET BOXES, DEVICES, COVERPLATES, & ID FLANGES AS REQUIRED.
- QUANTITY: QUANTIFY ALL OUTLETS AT 18" AFF UNLESS NOTED OTHERWISE. REFERENCE ARCHITECT'S DRAWINGS, PLANS, AND ELEVATIONS FOR ALL HEIGHTS, DIMENSIONS, AND CONFIGURATIONS OF DEVICES NOT INDICATED ON THESE DRAWINGS. REFERENCE SAME DRAWINGS FOR EQUIPMENT NOT IDENTIFIED.
- TELECOMM & TELEPHONE: FURNISH AND INSTALL MIN. 3/4" CONDUIT AND FULL STIRNINGS FROM EACH TELEPHONE/DATA OUTLET TO TELEPHONE BACKBOARD OR TO 8" ABOVE CEILING WHEN USING PLEXAN RATED CABLE. VERIFY ALL TELEPHONE AND DATA LINE QUANTITIES, LOCATIONS, AND CABLE REQUIREMENTS WITH ARCHITECT. VERIFY EXACT REQUIREMENTS WITH TELEPHONE AND TECHNOLOGY EQUIPMENT SUPPLIERS AND INSTALLERS. FURNISH AND INSTALL MATERIALS NOT PROVIDED BY TELEPHONE OR TECHNOLOGY CONTRACTORS.
- RECEPTACLES: ALL DUPLEX RECEPTACLES ARE TO BE NEMA 5-20R SPECIFICATION GRADE, LEVITON DECORA (OR APPROVED EQUAL) WITH THE FOLLOWING CHARACTERISTICS:
GENERAL PURPOSE: GREY NYLON FACE WITH STAINLESS STEEL FACEPLATE
ISOLATED GROUND: ORANGE NYLON FACE WITH STAINLESS STEEL FACEPLATE
GROUND FAULT: GREY NYLON FACE WITH RED TEST AND BLACK TEST BUTTONS WITH STAINLESS STEEL FACEPLATE
DATA/TELECOMM: GREY NYLON LEVITON DECORA STATION JACKS ON SEPARATE YOKE, PORTS AS INDICATED, WITH STAINLESS STEEL FACEPLATE
- COORDINATE RECEPTACLE, DATA, AND SWITCH DEVICES BY MANUFACTURER, TYPE, STYLE, AND COLOR, TO THE EXTENT POSSIBLE WITH THE INDICATED MANUFACTURER'S LINES. VERIFY ALL DEVICE TYPES, COLORS, AND CONFIGURATIONS WITH ARCHITECT. SUBMIT SAMPLES OF FINAL SELECTION TO ARCHITECT FOR FINAL APPROVAL PRIOR TO PURCHASE AND INSTALLATION. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY REQUIRE REMOVAL AND REPLACEMENT OF DEVICES, WHICH, IF REQUESTED BY ARCHITECT, WILL BE AT CONTRACTOR'S EXPENSE.
- ALL ISOLATED GROUND DEVICES (IG), GROUND FAULT INTERRUPT (GFI) DEVICES, AND TRANSIENT VOLTAGE SURGE SUPPRESSION (TVSS) DEVICES SHALL BE RATED 20 AMPERES (A) AND SHALL HAVE AN INSULATED GREEN GROUND WIRE. THE GROUND WIRE SHALL BE UNCONTINUOUS AND UNSPECIFIED BETWEEN DEVICE AND PANEL GROUND BUS.
- GROUPS: RUN ALL CIRCUITS WITH A #12 AWG GREEN INSULATED COPPER GROUND WIRE UNLESS OTHER WIRE SIZE IS NOTED. USE OF CONDUIT AS A GROUND IS UNACCEPTABLE. PROVIDE BONDING JUMPER BETWEEN GROUND BUS AND NEUTRAL BUS AT SERVICE EQUIPMENT. PROVIDE GROUNDING ELECTRODE CONDUCTORS AND GROUNDING ELECTRODES PER NEC ARTICLE 250. PROVIDE GROUND TO BUILDING STEEL PER NEC. PROVIDE GROUNDING ELECTRODE CONDUCTORS FROM ALL TRANSFORMERS AND OTHER SEPARATELY DERIVED SYSTEMS. PROVIDE GROUND LUG WITH A #6 AWG COPPER GROUND WIRE TO BUILDING STEEL, OR AS DIRECTED BY TELEPHONE EQUIPMENT SUPPLIER AND TELEPHONE UTILITY COMPANY FOR ALL TELEPHONE/TECHNOLOGY EQUIPMENT BOARDS. REFERENCE DATA REQUIREMENTS AND COORDINATE ELECTRICAL, TELECOMM, AND TECHNOLOGY CONTRACTORS FOR LOCATIONS AND INSTALLATION OF EQUIPMENT AND OTHER GROUNDING REQUIREMENTS.
- LANDLORD REQUIREMENTS: BECOME FAMILIAR WITH ALL OF LANDLORD'S SPECIFICATIONS, DESIGN CRITERIA, BUILDING STANDARDS, AND EQUIPMENT REQUIREMENTS PRIOR TO ANY EQUIPMENT PURCHASE OR INSTALLATION. ALL OF LANDLORD'S CRITERIA AND SPECIFICATIONS ARE TO BE FOLLOWED.
- ELECTRICAL EQUIPMENT EXPOSED TO THE WEATHER SHALL BE WEATHERPROOF (NEMA 3R).
- TEMPORARY POWER: FURNISH TEMPORARY ELECTRICAL SERVICE AS REQUIRED. ALL TEMPORARY WIRING IS TO BE REMOVED BY CONTRACTOR WHEN PERMANENT SERVICE IS AVAILABLE. COORDINATE SERVICE WITH ELECTRICAL UTILITY COMPANY.
- WHEN NOT FURNISHED BY OTHER TRADES, PROVIDE APPROPRIATE STARTERS, DISCONNECTS, MANUAL MOTOR SWITCHES, AND OVERCURRENT PROTECTION DEVICES FOR ALL MOTORS AND HVAC EQUIP. COORDINATE WITH MECHANICAL CONTRACTOR DURING BIDDING PROCESS.
- VERIFY HVAC EQUIPMENT CIRCUITING REQUIREMENTS AND COORDINATED WITH MANUFACTURER'S RECOMMENDATIONS FOR ACTUAL EQUIPMENT INSTALLED. INFORM ARCHITECT AND ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- CIRCUIT BREAKERS SHALL BE OF THE SAME MANUFACTURER AS PANELBOARDS. PROVIDE NEW BREAKERS IN EXISTING PANEL(S) AS REQUIRED.
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR BALANCING FINAL CONNECTIONS OF ALL PANELBOARDS AND SWITCHBOARDS TO WITHIN 10% BETWEEN PHASES.
- EXTEND OR SHORTEN EXISTING ELECTRICAL AND TELEPHONE CONDUITS AS REQUIRED TO SERVE EQUIPMENT AS INDICATED ON THE PLANS OR DIRECTED BY OWNER. COORDINATE LOCATION OF EQUIPMENT WITH ASSOCIATED TRADES. PROVIDE LABOR AND MATERIALS AS REQUIRED TO PROVIDE COMPLETE AND OPERABLE SYSTEMS. VERIFY THAT ANY CONDUIT AND WIRING TO BE EXTENDED OR EXISTING TO REMAIN IS OF PROPER CODE RATED SIZES. IF SIZES DO NOT COMPLY WITH NEC, REPLACE THE MATERIALS AND NOTIFY THE ENGINEER IMMEDIATELY.

BRANCH CIRCUIT DESCRIPTION	POLES / I / VOLT / L / VOLT / L / VOLT / L	BRANCH CIRCUIT DESCRIPTION
PANEL M		
AHU 2	3 / 4	CU-1
	5 / 6	
	7 / 8	
AHU 3	9 / 10	CU-2
	11 / 12	
	13 / 14	
AHU 1	15 / 16	CU-3
	17 / 18	
	19 / 20	
AHU 4	21 / 22	CU-4
	23 / 24	
	25 / 26	
WATER HEATER	27 / 28	
	29 / 30	
	31 / 32	
	33 / 34	
	35 / 36	
	37 / 38	
	39 / 40	
	41 / 42	

LOAD SUMMARY	IND	ICDN	KVA	CDN	AMP	IC	WSPF	1	2	3	4	5	6	7	8	9	10	11	12	13	14	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	41	42							
GROUPED MOTORS	11.0		28.1		78.1		11.3																																																	
25% LARGEST MOTOR	1.0		1.6		4.4		0.6																																																	
KITCHEN EQUIPMENT	11.0		36.2		100.6		14.5		0.65	23.5		65.4		9.4																																										
HEAT: 0.0 KVA	11.0		0.0		0.0		0.0		0.0	0.0		0.0		0.0																																										
A/C EQUIP. 0.0 KVA	11.0		0.0		0.0		0.0		0.0	0.0		0.0		0.0																																										
COMPUTER EQUIPMENT	11.0		0.0		0.0		0.0		0.0	0.0		0.0		0.0																																										
WATER HEATERS	11.0		0.0		0.0		0.0		0.0	0.0		0.0		0.0																																										
OTHER	11.0		11.4		31.6		4.6		1.0	11.4		31.6		4.6																																										
SPARE: 16 KVA	11.0		0.0		0.0		0.65		10.2	28.3		4.1																																												
SPARE: 10 KVA	11.0		0.0		0.0		0.50		5.2	14.5		2.1																																												
TOTAL			61.7		171.3		24.7		68.3	189.7		27.3																																												

REMARKS	BREAKER SUMMARY	TOTAL POLES	PER PHASE TOTALS	PANEL 'A' SUMMARY
1. PROVIDE BREAKERS RATED FOR SWITCHING DUTY.		10		3PH. 4W. W/ GROUND BUS VOLTAGE: 208Y/120 BRACING: 30 K AIC
2. PROVIDE BOLT-IN REAKERS		1		MAINS: MLD - AMPS: 600
3. PROVIDE FULL GROUND BUS		2		# POLES: 84 TYPE: NODD
4. PROVIDE DBL. NEUTRAL BUS		2		MOUNTED: SURFACE LOCATED: STORAGE
5. + NEXT TO BREAKER AMP INDICATES GFI UNIT		2		SERVED FROM: MSB UPST. DEVICE: SWITCH

BRANCH CIRCUIT DESCRIPTION	POLES / I / VOLT / L / VOLT / L / VOLT / L	BRANCH CIRCUIT DESCRIPTION
		CU-1
		CU-2
		CU-3
		CU-4
		PANEL A SUBFEED BREAKER

DATE	ISSUE	BY	CD
06/26/02	DD	50%	50%
10/31/02	CD	95%	95%
01/23/03	CD	95%	95%

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