

PANEL A 120/208V, 3 PHASE, 4 WIRE 225 AMPERE MAIN LUGS ONLY						BRANCHES: 22,000 A.I.C. THERMAL MAGNETIC CIRCUIT BREAKERS ENCLOSURE: NEMA 1 SURFACE MOUNT					
LOAD	CONDUCTORS	C.B.		C.B.	CONDUCTORS	LOAD					
APPARATUS BAY LIGHTING	(2) #12 THHN, #12 GND, 3/4" EMT	20		20	(2) #12 THHN, #12 GND, 3/4" EMT	EXTERIOR OUTLETS					
APPARATUS BAY LIGHTING	(2) #12 THHN, #12 GND, 3/4" EMT	20		20	(2) #12 THHN, #12 GND, 3/4" EMT	EXTERIOR OUTLETS					
FIRST FLOOR LIGHTING	(2) #12 THHN, #12 GND, 3/4" EMT	20		20	(4) #12 THHN, #12 GND, 3/4" EMT	(3) GARAGE DOOR HOISTS					
EXTERIOR EM. LIGHTING	(2) #10 THHN, #10 GND, 3/4" EMT	20		20	(2) #12 THHN, #12 GND, 3/4" EMT	EXTERIOR OUTLETS					
FIRE ALARM CONTROL PANEL	(2) #12 THHN, #12 GND, 3/4" EMT	20		20	(4) #12 THHN, #12 GND, 3/4" EMT	(2) GARAGE DOOR HOISTS					
HOSE REEL OUTLETS	(6) #12 THHN, #12 GND, 3/4" EMT	20		20	(2) #12 THHN, #12 GND, 3/4" EMT	(4) APPARATUS BAY CEILING FANS					
HOSE REEL OUTLETS	(6) #12 THHN, #12 GND, 3/4" EMT	20		20	(2) #12 THHN, #12 GND, 3/4" EMT	PHONE/CABLE OUTLETS (113)					
PARKING LOT POLE OUTLETS	(4) #10 THHN, #10 GND, 3/4" EMT	20		20	(2) #10 THHN, #10 GND, 3/4" EMT	EXTERIOR SOFFIT OUTLETS					
PARKING LOT LIGHTS	(2) #10 THHN, #10 GND, 3/4" EMT	20		20	(2) #10 THHN, #10 GND, 3/4" EMT	EXTERIOR SOFFIT OUTLETS					
COMPRESSOR	(2) #8 THHN, #10 GND, 3/4" EMT	35		22	35	(2) #8 THHN, #10 GND, 3/4" EMT	WATER BOOSTER PUMP				
OUTLETS (113,114,115, 116) & (3) EF-C	(2) #12 THHN, #12 GND, 3/4" EMT	20		25	20	(2) #8 THHN, #10 GND, 3/4" EMT	JOCKEY PUMP				
ICE MAKER (116)	(2) #12 THHN, #12 GND, 3/4" EMT	15		28	15	(4) #12 THHN, #12 GND, 3/4" EMT	JOCKEY PUMP				
REFRIGERATOR OUTLET (116)	(2) #12 THHN, #12 GND, 3/4" EMT	20		30	15	(4) #12 THHN, #12 GND, 3/4" EMT	JOCKEY PUMP				
OUTLETS (101)	(2) #12 THHN, #12 GND, 3/4" EMT	20		32	15	(2) #8 THHN, #10 GND, 3/4" EMT	A/C UNIT (CG-F)				
OUTLETS (101)	(2) #12 THHN, #12 GND, 3/4" EMT	20		34	40	(2) #8 THHN, #10 GND, 3/4" EMT	A/C UNIT (CG-F)				
OUTLETS (101)	(2) #12 THHN, #12 GND, 3/4" EMT	20		36	40	(2) #8 THHN, #10 GND, 3/4" EMT	A/C UNIT (CG-F)				
OUTLETS (101)	(2) #12 THHN, #12 GND, 3/4" EMT	20		38	30	(4) #10 THHN, #10 GND, 3/4" EMT	A/C UNIT (AHU-E)				
FRONT FLOOR LIGHTS	(2) #10 THHN, #10 GND, 3/4" EMT	20		40	30	(4) #10 THHN, #10 GND, 3/4" EMT	A/C UNIT (AHU-E)				
OUTLETS (110,112) & EF-C	(2) #12 THHN, #12 GND, 3/4" EMT	20		42	30	(2) #12 THHN, #12 GND, 3/4" EMT	A/C UNIT (AHU-F)				
EXTERIOR GEN. LIGHTING	(2) #10 THHN, #10 GND, 3/4" EMT	20		44	15	(2) #12 THHN, #12 GND, 3/4" EMT	A/C UNIT (AHU-F)				
TRUCK EXHAUST CONTROL PANEL	(2) #12 THHN, #12 GND, 3/4" EMT	20		46	15	(4) #10 THHN, #10 GND, 1" PVC	GENERATOR BLOCK HEATER				
TRUCK EXHAUST FAN	(3) #12 THHN, #12 GND, 3/4" EMT	20		50	20	(4) #10 THHN, #10 GND, 1" PVC	GENERATOR BATTERY CHARGER				
SPARE	————	20		54	—	————	SPACE ONLY				
SPARE	————	20		56	—	————	SPACE ONLY				
SPARE	————	20		58	—	————	SPACE ONLY				
SPARE	————	20		60	—	————	SPACE ONLY				

#### KEYED NOTES

(APPLIES TO THIS SHEET ONLY)

- PROVIDE PHOTOCELL 'ON' AND T-DAY TIME CLOCK OFF FOR CONTROL OF EXTERIOR LIGHTS. TIME CLOCK SHALL BE CAPABLE OF RETAINING PROGRAMMING DURING LOSS OF POWER FOR A PERIOD OF AT LEAST 10 HOURS.
- PROVIDE PHOTOCELL 'ON' AND T-DAY TIME CLOCK OFF FOR EXTERIOR EMERGENCY LIGHT FIXTURES. PROVIDE 250 WATT INVERTER (EMA) FOR 90 MINUTE BACKUP POWER. ALL EMERGENCY WIRING SHALL BE WIRED SEPARATELY WITH DEDICATED NEUTRAL AND IN SEPARATE CONDUIT FROM ALL OTHER LIGHTING BRANCH CIRCUITS. REFER TO DETAIL 9/66.01.
- VERIFY CIRCUIT BREAKER SIZE ACCORDING TO THE SPECIFICATIONS OF THE OWNER'S EQUIPMENT AT THIS LOCATION.

#### NOTES:

- ALL BRANCH CIRCUITRY SHALL BE EXTENDED WITH DEDICATED NEUTRAL CONDUCTOR UNLESS OTHERWISE INDICATED.

#### FIRE ALARM NOTES

- FIRE ALARM SYSTEM WIRING, NUMBER AND SIZE OF CONDUCTORS SHALL BE PER MANUFACTURER'S RECOMMENDATIONS BUT NOT LESS THAN 10 AWG, COPPER CONDUCTOR. UL LISTED FLEMUR RATED SIGNALING CABLE MAY BE USED IN CONCEALED SPACES.
- FIRE ALARM SYSTEM SHALL BE FULLY ADDRESSABLE, WITH DISCREET ADDRESSES FOR EACH ACTIVATING DEVICE. MAIN PANEL SHALL IDENTIFY DEVICE BY ROOM NAMES AND LOCATIONS TO BE PROVIDED BY THE BUILDING OPERATOR.
- ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL A COMPLETE AND OPERABLE FIRE ALARM AND SMOKE DETECTION SYSTEM IN ACCORDANCE WITH NFPA 72, BUILDING CODE OF NEW YORK STATE AND ALL LOCAL CODES, INCLUDING ALL CIRCUITRY, SMOKE DETECTORS, HEAT DETECTORS, ZONE MODULES, ANNUNCIATION DEVICES, FIRE ALARM PANEL, POWER MODULES, BATTERY BACKUP, MUNICIPAL TIE AND CONNECTION AND OTHER MISCELLANEOUS ITEMS NOT NECESSARILY DETAILED ON THIS DRAWING TO RENDER FIRE ALARM SYSTEM COMPLETE AND OPERATIVE.
- ELECTRICAL CONTRACTOR SHALL HIRE MANUFACTURER'S REPRESENTATIVE TO FULLY DEMONSTRATE SYSTEM FUNCTION, OPERATION AND MAINTENANCE OF FIRE ALARM SYSTEM TO OWNER.
- HVAC CONTRACTOR SHALL INSTALL DUCT SMOKE DETECTORS IN DUCTS. DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL WIRING, RELAYS AND MISCELLANEOUS EQUIPMENT ASSOCIATED WITH HVAC AIR HANDLER UNIT SHUTDOWN FROM FIRE ALARM PANEL.

PANEL B 120/208V, 3 PHASE, 4 WIRE 225 AMPERE MAIN LUGS ONLY						BRANCHES: 22,000 A.I.C. THERMAL MAGNETIC CIRCUIT BREAKERS ENCLOSURE: NEMA 1 SURFACE MOUNT					
LOAD	CONDUCTORS	C.B.		C.B.	CONDUCTORS	LOAD					
FIRST FLOOR LIGHTING	(2) #12 THHN, #12 GND, 3/4" EMT	20		20	(2) #12 THHN, #12 GND, 3/4" EMT	OUTLETS (107,108, 109) & (2)EF-C, EF-G					
FIRST FLOOR LIGHTING	(2) #12 THHN, #12 GND, 3/4" EMT	20		20	(2) #12 THHN, #12 GND, 3/4" EMT	REFRIGERATOR OUTLET (117)					
COPIER (102)	(2) #12 THHN, #12 GND, 3/4" EMT	20		20	(2) #12 THHN, #12 GND, 3/4" EMT	COFFEE MAKER (117)					
OUTLETS (102) & EF-C	(8) #12 THHN, #12 GND, 3/4" EMT	20		20	(2) #12 THHN, #12 GND, 3/4" EMT	MICROWAVE OUTLET (117)					
RADIO ROOM OUTLETS (102)	(2) #12 THHN, #12 GND, 3/4" EMT	20		15	(2) #12 THHN, #12 GND, 3/4" EMT	OUTLETS (119,120,121)					
RADIO ROOM OUTLETS (102)	(2) #12 THHN, #12 GND, 3/4" EMT	20		20	(2) #12 THHN, #12 GND, 3/4" EMT	RANGE (117)					
WATER FOUNTAIN (101)	(2) #12 THHN, #12 GND, 3/4" EMT	20		14	40	(2) #8 THHN, #10 GND, 3/4" EMT	WATER FOUNTAIN (123)				
SPARE	————	20		16	40	(2) #12 THHN, #12 GND, 3/4" EMT	WASHER (125)				
SPARE	————	20		18	20	(2) #12 THHN, #12 GND, 3/4" EMT	OUTLETS (126,127) & EF-E, EF-G				
LAV (103), JANITOR (104)	(2) #12 THHN, #12 GND, 3/4" EMT	20		20	20	(2) #10 THHN, #10 GND, 3/4" EMT	CLOTHES DRYER (125)				
WORK ROOM (106)	(2) #12 THHN, #12 GND, 3/4" EMT	20		24	30	(2) #12 THHN, #12 GND, 3/4" EMT	EXERCISE ROOM (124)				
WORK ROOM (106)	(2) #12 THHN, #12 GND, 3/4" EMT	20		26	30	(2) #12 THHN, #12 GND, 3/4" EMT	EXERCISE ROOM (124)				
WORK ROOM (106)	(2) #12 THHN, #12 GND, 3/4" EMT	20		28	20	(2) #12 THHN, #12 GND, 3/4" EMT	EXERCISE ROOM (124)				
WORK ROOM (106)	(2) #12 THHN, #12 GND, 3/4" EMT	20		30	20	(2) #12 THHN, #12 GND, 3/4" EMT	EXERCISE ROOM (124)				
SPARE	————	20		32	20	(2) #12 THHN, #12 GND, 3/4" EMT	EXERCISE ROOM (124)				
WORK ROOM (106) OUTLET	(2) #8 THHN, #10 GND, 3/4" EMT	50		34	20	(2) #12 THHN, #12 GND, 3/4" EMT	EXERCISE ROOM (124)				
CLOTHES DRYER (107)	(2) #10 THHN, #10 GND, 3/4" EMT	30		38	20	(2) #12 THHN, #12 GND, 3/4" EMT	EXERCISE ROOM (124)				
WASHER (107)	(2) #12 THHN, #12 GND, 3/4" EMT	20		42	20	(2) #12 THHN, #12 GND, 3/4" EMT	EXERCISE ROOM (124)				
SEWAGE EJECTOR PUMP (SE-1)	(2) #12 THHN, #12 GND, 3/4" EMT	20		44	20	(2) #12 THHN, #12 GND, 3/4" EMT	A/C UNIT (HP-G)				
SPARE	————	20		46	15	(2) #12 THHN, #12 GND, 3/4" EMT	SUMP PUMP (SP-1)				
SPARE	————	20		48	15	(2) #12 THHN, #12 GND, 3/4" EMT	SPACE ONLY				
SPARE	————	20		50	—	————	SPACE ONLY				
SPARE	————	20		52	—	————	SPACE ONLY				
SPARE	————	20		54	—	————	SPACE ONLY				
SPARE	————	20		56	—	————	SPACE ONLY				
SPARE	————	20		58	—	————	SPACE ONLY				
SPARE	————	20		60	—	————	SPACE ONLY				

PANEL C 120/208V, 3 PHASE, 4 WIRE 225 AMPERE MAIN LUGS ONLY			BRANCHES: 22,000 A.I.C. THERMAL MAGNETIC CIRCUIT BREAKERS ENCLOSURE: NEMA 1 SURFACE MOUNT				
LOAD	CONDUCTORS	C.B.		C.B.	CONDUCTORS	LOAD	
2ND FLOOR LIGHTING	(2) #12 THHN, #12 GND, ¾" EMT	20		20	(2) #12 THHN, #12 GND, ¾" EMT	EXTERIOR OUTLETS	
OUTLETS (201)	(2) #12 THHN, #12 GND, ¾" EMT	20		45	(4) #8 THHN, #10 GND, ¾" EMT	A/C UNIT (CG-A)	
SERVER OUTLET (203)	(4) #12 THHN, #12 GND, ¾" EMT	30		45	(2) #8 THHN, #10 GND, ¾" EMT		
ACCESS CONTROL PANEL (203)	(2) #12 THHN, #12 GND, ¾" EMT	20		35	(2) #8 THHN, #10 GND, ¾" EMT		
OUTLETS (206,207)	(2) #12 THHN, #12 GND, ¾" EMT	20		12	35	A/C UNIT (CG-B)	
OUTLETS (208,209)	(2) #12 THHN, #12 GND, ¾" EMT	20		14	50	(2) #8 THHN, #10 GND, ¾" EMT	A/C UNIT (CG-C)
WATER BOOSTER PUMP (WBP-2)	(4) #8 THHN, #10 GND, ¾" EMT	40		16	50	(4) #8 THHN, #10 GND, ¾" EMT	A/C UNIT (CG-D)
A/C UNIT (AHU-A)	(4) #12 THHN, #12 GND, ¾" EMT	15		22	45	(2) #12 THHN, #12 GND, ¾" EMT	A/C UNIT (HP-H)
A/C UNIT (AHU-B)	(2) #12 THHN, #12 GND, ¾" EMT	15		24	15	(2) #12 THHN, #12 GND, ¾" EMT	BOILERS (B-1 & B-2) & RECIRC PUMP (P-1) A/C UNIT (ERU-1)
A/C UNIT (AHU-C)	(4) #12 THHN, #12 GND, ¾" EMT	15		26	15	(2) #12 THHN, #12 GND, ¾" EMT	
A/C UNIT (AHU-D)	(4) #12 THHN, #12 GND, ¾" EMT	15		32	20	(2) #12 THHN, #12 GND, ¾" EMT	PUMP (P-1)
SPARE	————	20		34	20	(2) #12 THHN, #12 GND, ¾" EMT	PUMP (P-2)
SPARE	————	20		36	20	(2) #12 THHN, #12 GND, ¾" EMT	PUMP (P-3)
SPARE	————	20		38	20	(2) #12 THHN, #12 GND, ¾" EMT	SPARE PUMP (P-4)
SPARE	————	20		40	20	(2) #12 THHN, #12 GND, ¾" EMT	PUMPS (P-4, P-5)
SPARE	————	20		42	20	(2) #12 THHN, #12 GND, ¾" EMT	PUMPS (P-6, P-7)
SPARE	————	20		44	20	(2) #12 THHN, #12 GND, ¾" EMT	PUMPS (P-8, P-9)
SPARE	————	20		46	—	————	SPACE ONLY
SPARE	————	20		48	—	————	SPACE ONLY
SPARE	————	20		50	—	————	SPACE ONLY
SPARE	————	20		52	—	————	SPACE ONLY
SPARE	————	20		54	—	————	SPACE ONLY
SPARE	————	20		56	—	————	SPACE ONLY
SPARE	————	20		58	—	————	SPACE ONLY
SPARE	————	20		60	—	————	SPACE ONLY