	ELECTRICAL ABBREVIATIONS				POWER SYMBOL LEGEND			
AFF	ABOVE FINISHED FLOOR	INTLK	INTERLOCK		5	THREE PHASE MOTOR CONNECTION, 5 HORSEPOWER (EXAMPLE)		
	ACCESSORY	JCT	JUNCTION		6	SINGLE PHASE MOTOR CONNECTION, 1/2 HORSEPOWER (EXAMPLE)		
	AUTOMATIC DOOR OPERATOR AIR HANDLING UNIT	JB KW	JUNCTION BOX KILOWATT		(1/2)			
	AUTOMATIC TRANSFER SWITCH	KWH	KILOWATT HOUR		D	HVAC CONTROL DAMPER ACTUATOR CONNECTION		
	BREAKER	KO LBL	KNOCK OUT LABEL			HVAC SMOKE DAMPER ACTUATOR CONNECTION		
	BOTTOM OF BOX BOTTOM OF DECK	LT	LIGHT		D F/S	HVAC COMBINATION FIRE/SMOKE DAMPER ACTUATOR CONNECTION		
	BOTTOM OF STRUCTURE	LC LCM	LIGHTING CONTROL LIGHTING CONTROL MODULE		7			
	BREAKER PANEL BUILDING	LCP	LIGHTING CONTROL PANEL			SAFETY SWITCH DISCONNECTING MEANS, NOT FUSIBLE		
	CAPACITY LIGHTING CONTROL INTENT NARRATIVE	LTG MAX	LIGHTING MAXIMUM			SAFETY SWITCH DISCONNECTING MEANS, FUSIBLE		
	CEILING	MBJ				COMBINATION MOTOR STARTER AND FUSIBLE DISCONNECTING MEANS		
	CIRCUIT CIRCUIT BREAKER	MCC MIN	MOTOR CONTROL CENTER MINIMUM			VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECTING MEANS		
С	CONDUIT	MTS NEC	MANUAL TRANSFER SWITCH NATIONAL ELECTRICAL CODE			MOTOR STARTER		
	COMMUNICATIONS CONNECTION	NEG	NEGATIVE (-)			MOTOR STARTER		
CONST	CONSTRUCTION	NC NO	NORMALLY CLOSED NORMALLY OPEN		\$ F	BOX-COVER FUSIBLE DISCONNECT SWITCH		
	CONTRACT (OR) CONTRACT LIMIT LINE	N/A	NOT APPLICABLE		\$ M	MANUAL MOTOR CONTROLLER		
		NIC NL	NOT IN CONTRACT NIGHT LIGHT		\$	POWER SWITCH, REFER TO LIGHTING SYMBOL LEGEND FOR SIMILAR SWITCH TYPES		
	ELECTRICAL CONTRACTOR EQUIPMENT GROUNDING CONDUCTOR	OCPD	OVERCURRENT PROTECTIVE DEVICE					
		PC POS	PHOTOCELL / PHOTOCONTROL POSITIVE (+)		۲	DIRECT ELECTRICAL CONNECTION		
	ELECTRIC (AL) ELECTRIC WATER COOLER	PWR	POWER		φ	SINGLE NEMA 5-20R RECEPTACLE		
	EMERGENCY ENTRANCE	P&L S	POWER & LIGHTING SURFACE		ф	SINGLE NEMA 5-20R RECEPTACLE, CEILING-MOUNTED		
EQ	EQUAL	SBJ S.B.O.	SYSTEM BONDING JUMPER SUPPLIED BY OTHERS		Ο	SINGLE NEMA 5-20R RECEPTACLE, FLOOR-MOUNTED		
	EQUIPMENT ESTIMATE	SP	SINGLE POLE					
EF	EXHAUST FAN	SPD SPKR	SURGE PROTECTION DEVICE SPEAKER		Ŷ	DUPLEX NEMA 5-20R RECEPTACLE		
	EXISTING TO REMAIN EXISTING	SPEC	SPECIFICATION		₽⊧	"E" NOTATION: REPLACE EXISTING WIRING DEVICE USING EXISTING OUTLET BOX		
	FLUSH	SSBJ SUB	SUPPLY-SIDE BONDING JUMPER SUBSTITUTE			"GFCI" NOTATION: GROUND FAULT CIRCUIT INTERRUPTER TYPE RECEPTACLE		
	FIRE ALARM FOOD SERVICE EQUIPMENT	SWBD	SWITCHBOARD		φs	"S" NOTATION: SURFACE-MOUNTED		
	FIRE PROOF / FIRE PROTECTION	TEL T'STAT	TELEPHONE THERMOSTAT			"WL" NOTATION: PROVIDE WEATHER RESISTANT (WR) GFCI RECEPTACLE WITH		
	FLOOR FLUORESCENT	XFMR			₽w∟	EXTRA-DUTY WHILE-IN-USE WET LOCATION COVER		
	GROUNDING ELECTRODE CONDUCTOR	UG UL	UNDERGROUND UNDERWRITERS LABORATORIES		\$	DUPLEX NEMA 5-20R RECEPTACLE, CEILING-MOUNTED		
	GENERATOR GROUND FAULT CIRCUIT INTERRUPTER	UH UNO	UNIT HEATER UNLESS NOTED OTHERWISE		\mathbf{O}	DUPLEX NEMA 5-20R RECEPTACLE, FLOOR-MOUNTED		
	GROUND HORIZONTAL	VERT	VERTICAL		Ŷ	DUPLEX NEMA 5-20R RECEPTACLE, CONNECTED TO STANDBY POWER BRANCH CIRCUIT		
	HEATER	W/ W/O	WITH WITHOUT					
	HEATING HEATING / VENTILATING	WG	WIRE GUARD		P	DUPLEX NEMA 5-20R RECEPTACLE, SPLIT-WIRED		
HVAC	HVAC HEATING, VENTILATING, AIR CONDITIONING WP WEATHER PROOF			ŧ	QUADRUPLEX (DOUBLE DUPLEX) NEMA 5-20R RECEPTACLE			
HOA HAND - OFF - AUTOMATIC HP HEAT PUMP					-	QUADRUPLEX (DOUBLE DUPLEX) NEMA 5-20R RECEPTACLE, CEILING-MOUNTED		
					QUADRUPLEX (DOUBLE DUPLEX) NEMA 5-20R RECEPTACLE, FLOOR-MOUNTED			
			φ	RECEPTACLE OTHER THAN NEMA 5-20R (MAY BE MULTI-POLE OR MULTI-PHASE),				
					·			
					$\mathbf{\Sigma}$	RECEPTACLE OTHER THAN NEMA 5-20R (MAY BE MULTI-POLE OR MULTI-PHASE), SEE PLAN FOR TYPE, FLOOR-MOUNTED		
					VERT. HORIZ.	SURFACE RACEWAY SYSTEM		
Ν	IAXIMUM CONDUCTOR LENGTHS FOR	TYPICAL	BRANCH CIRCUITS		ATS	AUTOMATIC TRANSFER SWITCH		
	Y LENGTH (FEET) BASED ON SINGLE 20A CIRCUIT, 75% LOAD, 100% P.F., IN		AY LENGTH (FEET) BASED ON SINGLE , 30A CIRCUIT, 75% LOAD, 100% P.F., IN			SWITCHBOARD / SWITCHGEAR		
	EL CONDUIT, 3% VOLTAGE DROP		EEL CONDUIT, 3% VOLTAGE DROP		-	PANELBOARD		
CIRCUIT	CONDUCTOR SIZE AWG #10 AWG #8 AWG #6 AWG #4 AWG		CONDUCTOR SIZE #10 AWG #8 AWG #6 AWG #4 AWG		T	TRANSFORMER		
#12	AWG #10 AWG #8 AWG #6 AWG #4 AWG #6 AWG <td>120</td> <td>#10 AWG #8 AWG #6 AWG #4 AWG 60 100 150 245</td> <td></td> <td></td> <td>MOTOR CONTROL CENTER</td>	120	#10 AWG #8 AWG #6 AWG #4 AWG 60 100 150 245			MOTOR CONTROL CENTER		
208 10	0 170 265 425 670	208	100 170 265 425					
277 13 480 24		277 480	135 230 355 565 240 400 615 980		Ê	EMERGENCY STOP STATION, REFER TO DETAIL FOR REQUIREMENTS.		
400 24	0 400 015 980	400	240 400 013 300		面	AUTOMATIC DOOR OPERATOR PUSH BUTTON		
ONE-WAY LENGTH (FEET) BASED ON THREE ONE-WAY LENGTH (FEET) BASED ON THREE				0	ON/OFF PUSH BUTTON			
	20A CIRCUIT, 75% LOAD, 100% P.F., IN EL CONDUIT, 3% VOLTAGE DROP		, 30A CIRCUIT, 75% LOAD, 100% P.F., IN EEL CONDUIT, 3% VOLTAGE DROP		000	THREE-FUNCTION PUSH BUTTON		
CIRCUIT CONDUCTOR SIZE CIRCUIT CONDUCTOR SIZE								
		#10 AWG #8 AWG #6 AWG #4 AWG 120 200 305 490		FB1	FLOORBOX, TYPE 1			
480 27		480	120 200 305 490 275 460 710 1,130		Ū	JUNCTION BOX		
· '					M	METER		
					()	THERMOSTAT ROUGH-IN		
					-			
	COMMUNICATI	ONS SYM	BOL LEGEND		R	RELAY		
					С	ENCLOSED CONTROL CONTACTOR		
	COMMUNICATIONS OUTLET ROUGH-IN					NOTE: NOT ALL SYMBOLS ARE NECESSARILY USED		

ELECTRICAL ABBREVIATIONS				POWER SYMBOL LEGEND			
				6			
AFF ABOVE FINISHED FLOOR ACC ACCESSORY	INTLK JCT	INTERLOCK JUNCTION		5	THREE PHASE MOTOR CONNECTION, 5 HORSEPOWER (EXAMPLE)		
ADO AUTOMATIC DOOR OPERATOR	JB	JUNCTION BOX		(1/2)	SINGLE PHASE MOTOR CONNECTION, 1/2 HORSEPOWER (EXAMPLE)		
AHU AIR HANDLING UNIT	KW KWH	KILOWATT KILOWATT HOUR		D	HVAC CONTROL DAMPER ACTUATOR CONNECTION		
ATS AUTOMATIC TRANSFER SWITCH BKR BREAKER	КО	KNOCK OUT		6	HVAC SMOKE DAMPER ACTUATOR CONNECTION		
BOB BOTTOM OF BOX	LBL LT	LABEL LIGHT					
BODBOTTOM OF DECKBOSBOTTOM OF STRUCTURE	LC	LIGHTING CONTROL		D F/S	HVAC COMBINATION FIRE/SMOKE DAMPER ACTUATOR CONNECTION		
BP BREAKER PANEL	LCM LCP	LIGHTING CONTROL MODULE		D	SAFETY SWITCH DISCONNECTING MEANS, NOT FUSIBLE		
BLDG BUILDING CAP CAPACITY	LTG	LIGHTING			SAFETY SWITCH DISCONNECTING MEANS, FUSIBLE		
CIN LIGHTING CONTROL INTENT NAR	RATIVE MAX MBJ	MAXIMUM MAIN BONDING JUMPER					
CLG CEILING CKT CIRCUIT	MCC	MAIN BONDING JUMPER			COMBINATION MOTOR STARTER AND FUSIBLE DISCONNECTING MEANS		
CB CIRCUIT BREAKER	MIN MTS	MINIMUM MANUAL TRANSFER SWITCH			VARIABLE FREQUENCY DRIVE WITH INTEGRAL DISCONNECTING MEANS		
C CONDUIT COMM COMMUNICATIONS	NEC	NATIONAL ELECTRICAL CODE			MOTOR STARTER		
CONN CONNECTION	NEG NC	NEGATIVE (-) NORMALLY CLOSED		\$ _F	BOX-COVER FUSIBLE DISCONNECT SWITCH		
CONST CONSTRUCTION CONTR CONTRACT (OR)	NO	NORMALLY OPEN					
CLL CONTRACT LIMIT LINE	N/A NIC	NOT APPLICABLE NOT IN CONTRACT		\$ M	MANUAL MOTOR CONTROLLER		
CT CURRENT TRANSFORMER E.C. ELECTRICAL CONTRACTOR	NL	NIGHT LIGHT		\$	POWER SWITCH, REFER TO LIGHTING SYMBOL LEGEND FOR SIMILAR SWITCH TYPES		
EGC EQUIPMENT GROUNDING CONDU	JCTOR OCPD PC	OVERCURRENT PROTECTIVE DEVICE PHOTOCELL / PHOTOCONTROL		۲	DIRECT ELECTRICAL CONNECTION		
EHD ELECTRIC HAND DRYER ELEC ELECTRIC (AL)	POS	POSITIVE (+)					
EWC ELECTRIC WATER COOLER	PWR P&L	POWER POWER & LIGHTING		φ	SINGLE NEMA 5-20R RECEPTACLE		
EM EMERGENCY ENT ENTRANCE	S	SURFACE		φ	SINGLE NEMA 5-20R RECEPTACLE, CEILING-MOUNTED		
EQ EQUAL	SBJ S.B.O.	SYSTEM BONDING JUMPER SUPPLIED BY OTHERS		\mathbf{O}	SINGLE NEMA 5-20R RECEPTACLE, FLOOR-MOUNTED		
EQUIP EQUIPMENT EST ESTIMATE	SP	SINGLE POLE		φ	DUPLEX NEMA 5-20R RECEPTACLE		
EF EXHAUST FAN	SPD SPKR	SURGE PROTECTION DEVICE SPEAKER					
ETR EXISTING TO REMAIN EX EXISTING	SPEC	SPECIFICATION		₽⊧	"E" NOTATION: REPLACE EXISTING WIRING DEVICE USING EXISTING OUTLET BOX		
F FLUSH	SSBJ SUB	SUPPLY-SIDE BONDING JUMPER SUBSTITUTE			"GFCI" NOTATION: GROUND FAULT CIRCUIT INTERRUPTER TYPE RECEPTACLE		
FA FIRE ALARM FSE FOOD SERVICE EQUIPMENT	SWBD	SWITCHBOARD		₽s	"S" NOTATION: SURFACE-MOUNTED		
FP FIRE PROOF / FIRE PROTECTION	TEL T'STAT	TELEPHONE THERMOSTAT		₩ ₩L	"WL" NOTATION: PROVIDE WEATHER RESISTANT (WR) GFCI RECEPTACLE WITH		
FLR FLOOR FLUOR FLUORESCENT	XFMR UG	TRANSFORMER UNDERGROUND			EXTRA-DUTY WHILE-IN-USE WET LOCATION COVER		
GEC GROUNDING ELECTRODE CONDI GEN GENERATOR	UCTOR UL	UNDERWRITERS LABORATORIES		ф	DUPLEX NEMA 5-20R RECEPTACLE, CEILING-MOUNTED		
GFCI GROUND FAULT CIRCUIT INTERR	UH RUPTER UNO	UNIT HEATER UNLESS NOTED OTHERWISE		D	DUPLEX NEMA 5-20R RECEPTACLE, FLOOR-MOUNTED		
GRD GROUND HORIZ HORIZONTAL	VERT	VERTICAL		Ŷ	DUPLEX NEMA 5-20R RECEPTACLE, CONNECTED TO STANDBY POWER BRANCH CIRCUIT		
HTR HEATER	W/ W/O	WITH WITHOUT					
HTG HEATING HV HEATING / VENTILATING	WG	WIRE GUARD		P	DUPLEX NEMA 5-20R RECEPTACLE, SPLIT-WIRED		
HVAC HEATING, VENTILATING, AIR CON	NDITIONING WP	WET LOCATION WEATHER PROOF		₽	QUADRUPLEX (DOUBLE DUPLEX) NEMA 5-20R RECEPTACLE		
HOA HAND - OFF - AUTOMATIC HP HEAT PUMP				-	QUADRUPLEX (DOUBLE DUPLEX) NEMA 5-20R RECEPTACLE, CEILING-MOUNTED		
					QUADRUPLEX (DOUBLE DUPLEX) NEMA 5-20R RECEPTACLE, FLOOR-MOUNTED		
				φ	RECEPTACLE OTHER THAN NEMA 5-20R (MAY BE MULTI-POLE OR MULTI-PHASE),		
				Ϋ́	SEE PLAN FOR TYPE		
				$\mathbf{\Sigma}$	RECEPTACLE OTHER THAN NEMA 5-20R (MAY BE MULTI-POLE OR MULTI-PHASE), SEE PLAN FOR TYPE, FLOOR-MOUNTED		
			ı İ	VERT. HORIZ.	SURFACE RACEWAY SYSTEM		
MAXIMUM CONDUCTO	R LENGTHS FOR TYPICAL	BRANCH CIRCUITS		ATS	AUTOMATIC TRANSFER SWITCH		
ONE-WAY LENGTH (FEET) BASED ON PHASE, 20A CIRCUIT, 75% LOAD, 100		/AY LENGTH (FEET) BASED ON SINGLE 5, 30A CIRCUIT, 75% LOAD, 100% P.F., IN			SWITCHBOARD / SWITCHGEAR		
STEEL CONDUIT, 3% VOLTAGE D		EEL CONDUIT, 3% VOLTAGE DROP		-	PANELBOARD		
CIRCUIT CONDUCTOR SIZE VOLTAGE #12 AWG #10 AWG #8 AWG #6	AWG #4 AWG CIRCUIT	CONDUCTOR SIZE #10 AWG #8 AWG #6 AWG #4 AWG		Т	TRANSFORMER		
120 60 100 150 2	245 385 120	60 100 150 245			MOTOR CONTROL CENTER		
	425 670 208 565 890 277	100 170 265 425 135 230 355 565		Æ	EMERGENCY STOP STATION, REFER TO DETAIL FOR REQUIREMENTS.		
480 240 400 615 9	980 480	240 400 615 980		í	AUTOMATIC DOOR OPERATOR PUSH BUTTON		
ONE-WAY LENGTH (FEET) BASED ON PHASE, 20A CIRCUIT, 75% LOAD, 100		VAY LENGTH (FEET) BASED ON THREE 5, 30A CIRCUIT, 75% LOAD, 100% P.F., IN		0	ON/OFF PUSH BUTTON		
STEEL CONDUIT, 3% VOLTAGE D	DROP ST	EEL CONDUIT, 3% VOLTAGE DROP		000	THREE-FUNCTION PUSH BUTTON		
	AWG #4 AWG CIRCUIT	= #10 AWG #8 AWG #6 AWG #4 AWG		FB1	FLOORBOX, TYPE 1		
208 120 200 305 100 075 100 710 1	490 775 208	120 200 305 490 275 400 740 4400		J	JUNCTION BOX		
480 275 460 710 1,	130 480	275 460 710 1,130					
			1	\mathbb{M}	METER		
				1	THERMOSTAT ROUGH-IN		
				R	RELAY		
	COMMUNICATIONS SYN			С	ENCLOSED CONTROL CONTACTOR		
					NOTE: NOT ALL SYMBOLS ARE NECESSARILY USED		
COMMUNICATIONS OUTLET ROUGH-IN							

	COMMUNICATIONS SYMBOL L
Ŧ	COMMUNICATIONS OUTLET ROUGH-IN
	COMMUNICATIONS OUTLET, CEILING-MOUNTED
	COMMUNICATIONS OUTLET, FLOOR-MOUNTED
	CEILING-MOUNTED VIDEO PROJECTOR
	COMMUNICATIONS EQUIPMENT RACK, FLOOR-MOL
	COMMUNICATIONS EQUIPMENT RACK, FLOOR-MOL
	COMMUNICATIONS EQUIPMENT RACK, WALL-MOUN
E3	CONDUIT SLEEVE FOR COMMUNICATIONS CABLING UNLESS NOTED OTHERWISE. IN FIRE-RATED AND/C TO SPECIFICATIONS FOR ACCEPTABLE FIRESTOP A
<u>(S1)</u>	LOUDSPEAKER, CEILING-MOUNTED, TYPE 1
S	LOUDSPEAKER, WALL-MOUNTED, TYPE 1
CS	INTERCOM SYSTEM CALL STATION BUTTON
VC	VOLUME CONTROL FOR AUDIO SYSTEM, PAGING, C
C 1	SECONDARY CLOCK, CEILING-MOUNTED, TYPE 1
ĊŢ	SECONDARY CLOCK, WALL-MOUNTED, TYPE 1
B	SIGNALING BELL
	NOTE: NOT ALL SYMBOLS ARE NECESSARI

OOR-MOUNTED 2-POST

OOR-MOUNTED 4-POST

ALL-MOUNTED

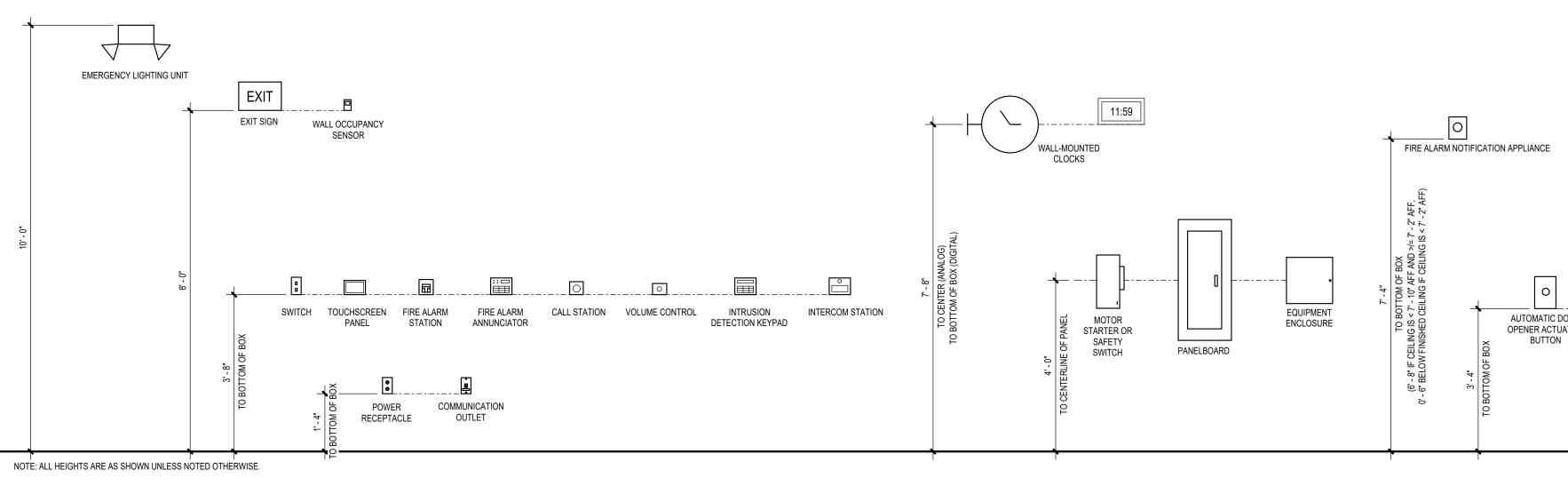
IS CABLING, 2" DIA. OR EQUIV. FREE AREA TYP. ATED AND/OR SMOKE BARRIER WALLS, REFER FIRESTOP AND SMOKE SEAL PRODUCTS.

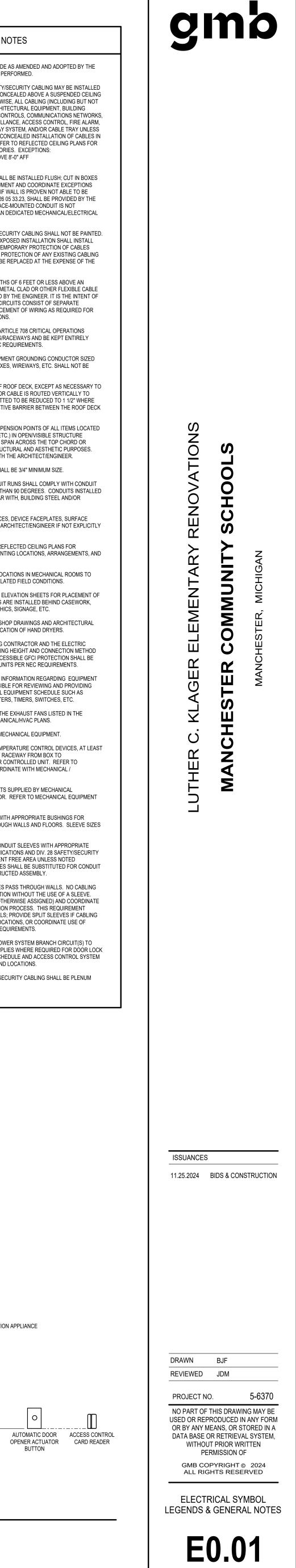
AGING, OR INTERCOM LOUDSPEAKERS

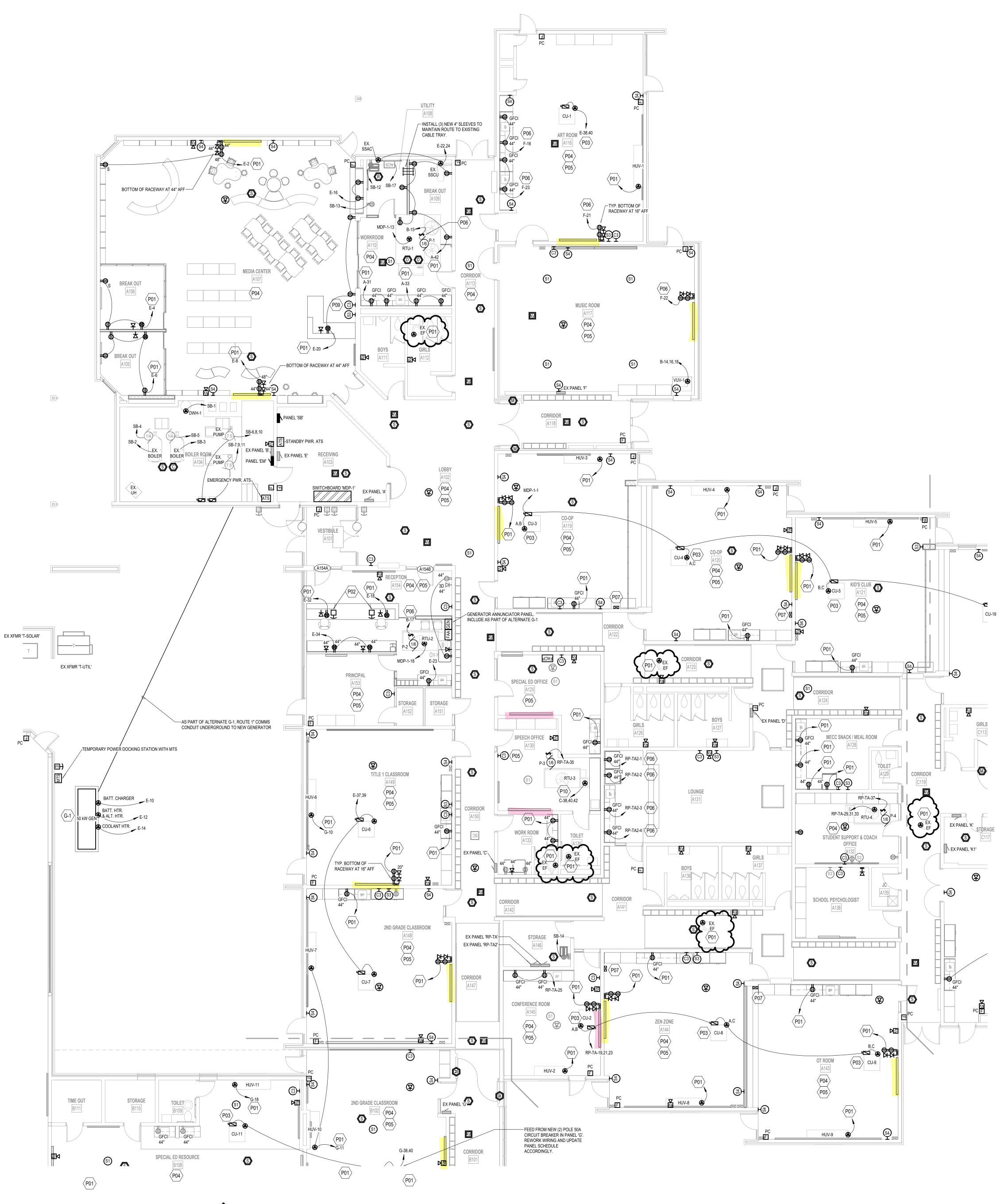
TYPE 1

CESSARILY USED

	LIGHTING SYMBOL LEGEND		FIRE DETECTION & ALARM SYMBOL LEGEND	ELECTRICAL GENERAL NOTES
\$	SINGLE POLE TOGGLE SWITCH	Ā	AUDIBLE NOTIFICATION APPLIANCE, WALL-MOUNTED	1. ALL WORK SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE AS AMENDED LOCAL AUTHORITY HAVING JURISDICTION WHERE THE WORK IS PERFORMED.
\$ 2	DOUBLE POLE TOGGLE SWITCH		VISUAL NOTIFICATION APPLIANCE, WALL-MOUNTED	 ALL "LOW-VOLTAGE" CONTROLS, COMMUNICATIONS, AND SAFETY/SECURITY CAE WITHOUT CONDUIT, RACEWAY, OR CABLE TRAY ONLY WHERE CONCEALED ABOV SYSTEM AND ACCESSIBLE FOR FUTURE MAINTENANCE. OTHERWISE, ALL CAPUN
\$ 3	THREE-WAY TOGGLE SWITCH		AUDIBLE/VISUAL NOTIFICATION APPLIANCE, WALL-MOUNTED	SYSTEM AND ACCESSIBLE FOR FUTURE MAINTENANCE. OTHERWISE, ALL CABLIN LIMITED TO CABLES ASSOCIATED WITH SYSTEMS SUCH AS ARCHITECTURAL EQU ENERGY MANAGEMENT, TEMPERATURE CONTROLS, LIGHTING CONTROLS, COM
\$ 4	FOUR-WAY TOGGLE SWITCH	A	AUDIBLE NOTIFICATION APPLIANCE, CEILING-MOUNTED	TELEPHONE, AUDIO-VIDEO, INTERCOM, PAGING, CLOCK, SURVEILLANCE, ACCESS ETC.) SHALL BE INSTALLED IN AN APPROVED CONDUIT, RACEWAY SYSTEM, AND/ OTHERWISE NOTED. IN EXPOSED STRUCTURE CEILING AREAS, CONCEALED INST
\$os	SINGLE POLE SWITCH WITH INTEGRAL OCCUPANCY SENSOR	\bigtriangledown	VISUAL NOTIFICATION APPLIANCE, CEILING-MOUNTED	RACEWAYS SHALL BE REQUIRED FOR AESTHETIC REASONS; REFER TO REFLECT LOCATION(S). THIS APPLIES TO ALL TRADES AND WORK CATEGORIES. EXCEPTIO A. DEDICATED MECHANICAL AND/OR ELECTRICAL ROOMS ABOVE 8'-0" AFF
\$osd	SINGLE POLE SWITCH WITH INTEGRAL OCCUPANCY SENSOR AND DIMMER	AV	AUDIBLE/VISUAL NOTIFICATION APPLIANCE, CEILING-MOUNTED	B. DEDICATED TELECOMMUNICATIONS ROOMS3. ALL DEVICES SHOWN TO BE INSTALLED ON EXISTING WALLS SHALL BE INSTALLED
\$ D	WALL-BOX DIMMER SWITCH	Ģ	FIRE PROTECTION OR ALARM BELL	AND FISH WALLS WITH FLEXIBLE CONDUIT AS REQUIRED. DOCUMENT AND COOF WITH ARCHITECT/ENGINEER IN WRITING FOR REVIEW IN FIELD. IF WALL IS PROVI FISHED, PROVIDE SURFACE RACEWAY SYSTEMS PER SECTION 26 05 33.23, SHALI
\$ D3	THREE-WAY WALL-BOX DIMMER SWITCH	Ē	MANUAL PULL STATION	CONTRACTOR; SUCH COSTS SHALL BE INCLUDED IN BID. SURFACE-MOUNTED CO ACCEPTABLE WHERE EXPOSED TO VIEW IN SPACES OTHER THAN DEDICATED ME ROOMS.
\$ ⊤	ELECTRONIC INTERVAL TIMER SWITCH	()	SMOKE DETECTOR	4. "LOW-VOLTAGE" CONTROLS, COMMUNICATIONS, AND SAFETY/SECURITY CABLING CONTRACTORS INSTALLING CABLING WHERE APPROVED FOR EXPOSED INSTALL
\$ P	LIGHT SWITCH WITH PILOT LIGHT		HEAT DETECTOR	CABLES AFTER PAINTING HAS BEEN COMPLETED OR PROVIDE TEMPORARY PRO UNTIL PAINTING HAS BEEN COMPLETED. PROVIDE TEMPORARY PROTECTION OF PRIOR TO PAINTING EXISTING AREAS. PAINTED CABLES SHALL BE REPLACED AT
\$ c	LIGHTING CONTROL SWITCH, REFER TO LIGHTING CONTROL SWITCH SCHEDULE		DUCT SMOKE DETECTOR	NEGLIGENT CONTRACTOR. 5. METAL CLAD CABLE MAY BE USED FOR FIXTURE WHIPS IN LENGTHS OF 6 FEET O
\$ _{DT}	AND SPECIFICATIONS FOR DETAILS. DOUBLE-THROW (MAINTAINED) LIGHT SWITCH	Ø	CARBON MONOXIDE DETECTOR	ACCESSIBLE SUSPENDED CEILING SYSTEM ONLY. OTHERWISE, METAL CLAD OR TYPES SHALL NOT BE USED UNLESS SPECIFICALLY AUTHORIZED BY THE ENGINE THESE CONTRACT DOCUMENTS THAT ALL INSTALLED BRANCH CIRCUITS CONSIS
\$ ĸ	KEY-OPERATED SWITCH (SUFFIX DESIGNATION NONE: SINGLE POLE, 2: DOUBLE-POLE, 3: THREE-WAY, 4: FOUR-WAY)	\$ _{rts}	KEYED TEST SWITCH AND REMOTE INDICATOR FOR DUCT SMOKE DETECTOR	RACEWAY AND CONDUCTORS ALLOWING REMOVAL AND REPLACEMENT OF WIRIL FUTURE UPGRADES. REFER TO SPECIFICATIONS FOR EXCEPTIONS.
\$ ∟	(SUFFIX DESIGNATION NONE: SINGLE-POLE, 2: DOUBLE-POLE, 3: THREE-WAY, 4: FOUR-WAY) (SUFFIX DESIGNATION NONE: SINGLE-POLE, 2: DOUBLE-POLE, 3: THREE-WAY, 4: FOUR-WAY)	G	FIRE PROTECTION FLOW SWITCH; PROVIDE SUPERVISED INPUT TO FIRE ALARM SYSTEM	 CIRCUIT WIRING FOR ARTICLE 700 EMERGENCY SYSTEMS AND ARTICLE 708 CRIT POWER SYSTEMS SHALL BE INSTALLED IN SEPARATE CONDUITS/RACEWAYS AND INDEPENDENT OF ALL OTHER WIRING AND EQUIPMENT PER NEC REQUIREMENTS
TP	(SUFFIX DESIGNATION NONE: SINGLE-POLE, 2: DOUBLE-POLE, 3: THREE-WAY, 4: FOUR-WAY)	(ES)	PRESSURE SWITCH; PROVIDE SUPERVISED INPUT TO FIRE ALARM SYSTEM	7. ALL FEEDERS AND BRANCH CIRCUITS SHALL CONTAIN AN EQUIPMENT GROUNDIN
LPA-X	CIRCUIT NUMBER FOR LIGHT FIXTURES WITHIN INDICATED SPACE		FIRE PROTECTION TAMPER SWITCH; PROVIDE SUPERVISED INPUT TO FIRE ALARM SYSTEM	ACCORDING TO THE NEC RACEWAYS INCLUDING CONDUITS, BOXES, WIREWAYS, CONSIDERED AN ACCEPTABLE GROUND.
	WALL-MOUNTED LIGHTING FIXTURE, TYPE 'A'		ELECTROMAGNETIC DOOR HOLD-OPEN DEVICE	 CONDUITS AND CABLING SHALL NOT BE INSTALLED WITHIN 4" OF ROOF DECK, EX SERVE ROOF-MOUNTED ITEMS AND ONLY WHEN THE CONDUIT OR CABLE IS ROU SUCH EQUIPMENT FROM BELOW. CLEARANCE SHALL BE PERMITTED TO BE REDUCED.
A	RECESSED LIGHTING FIXTURE, TYPE 'A'	R	ADDRESSABLE RELAY FOR FIRE ALARM CONTROL	SUPPLEMENTAL METAL FRAMING MEMBERS PROVIDE AN EFFECTIVE BARRIER BE AND ANY CONDUIT/CABLING.
A	SURFACE-MOUNTED LIGHTING FIXTURE. TYPE 'A'	NAC	NOTIFICATION APPLIANCE CIRCUIT POWER SUPPLY	 SUPPLEMENTAL METAL FRAMING SHALL BE PROVIDED FOR SUSPENSION POINTS BETWEEN STRUCTURAL MEMBERS (JOISTS, TRUSSES, BEAMS, ETC.) IN OPEN/VIS CEILING OR SUPPORT COLUMN AREAS. METAL FRAMING SHALL SPAN ACROSS T
Ц И		FAA	FIRE ALARM REMOTE ANNUNCIATOR	FLANGE OF OVERHEAD STRUCTURAL MEMBERS FOR BOTH STRUCTURAL AND AE SPECIFIC EXCEPTIONS SHALL BE COORDINATED IN WRITING WITH THE ARCHITEC
0	TRACK LIGHTING	FACP	FIRE ALARM CONTROL PANEL	 CONDUIT INSTALLED WITHIN INACCESSIBLE CONSTRUCTION SHALL BE 3/4" MININ FEEDERS SHOWN ON DRAWINGS ARE SCHEMATIC ONLY. CONDUIT RUNS SHALL 0
	SINGLE FACE EXIT SIGN, TYPE "X1" IN SCHEDULE UNLESS OTHERWISE NOTED, SHADING INDICATES FACE ORIENTATION	WG/PC	WHERE "WG/PC" IS NOTED, PROVIDE LISTED WIRE GUARD OR PROTECTIVE POLYCARBONATE COVER FOR DAMAGE RESISTANCE OF ASSOCIATED DEVICE	SPECIFICATIONS AND CONTAIN BENDS THAT ARE NO GREATER THAN 90 DEGREE ABOVE GRADE SHALL BE RUN PARALLEL TO, OR PERPENDICULAR WITH, BUILDING ARCHITECTURAL LINES.
	DOUBLE FACE EXIT SIGN. TYPE "X2" IN SCHEDULE UNLESS OTHERWISE NOTED.	WL	WHERE "WL" IS NOTED, PROVIDE LISTED WET-LOCATION VERSION OF ASSOCIATED DEVICE. SUITABLE FOR INDOOR OR OUTDOOR USE	12. CONTRACTOR(S) SHALL VERIFY COLOR/FINISH OF WIRING DEVICES, DEVICE FACI RACEWAY SYSTEMS, AND/OR MULTI-OUTLET ASSEMBLIES WITH ARCHITECT/ENG
	SHADING INDICATES FACE ORIENTATION			SPECIFIED. 13. ELECTRICAL CONTRACTOR SHALL REFER TO ARCHITECTURAL REFLECTED CEILII
Š	WALL-MOUNTED EXIT SIGN, SHADING INDICATES FACE ORIENTATION		NOTE: NOT ALL SYMBOLS ARE NECESSARILY USED	ADDITIONAL INFORMATION REGARDING LIGHTING FIXTURE MOUNTING LOCATION CEILING FINISHES.
	EMERGENCY LIGHT FIXTURE DESIGNATION			 ELECTRICAL CONTRACTOR SHALL ADJUST LIGHTING FIXTURE LOCATIONS IN MEC ACCOMMODATE MECHANICAL EQUIPMENT, DUCTWORK, AND RELATED FIELD COL
	EMERGENCY LIGHTING AUTOMATIC LOAD CONTROL RELAY	EL	ECTRONIC SAFETY / SECURITY SYMBOL LEGEND	 CONTRACTOR(S) SHALL BE RESPONSIBLE TO REVIEW INTERIOR ELEVATION SHEI DEVICE BOXES. COORDINATE LOCATIONS SO THAT NO DEVICES ARE INSTALLED MILLWORK, VISUAL DISPLAY BOARDS, MIRRORS, CUSTOM GRAPHICS, SIGNAGE, E
R	LIGHTING CONTROL RELAY	50		16. ELECTRICAL CONTRACTOR SHALL REVIEW TOILET EQUIPMENT SHOP DRAWINGS DETAILS/ELEVATIONS FOR CORRECT DEVICE BOX ROUGH-IN LOCATION OF HAND
С	LIGHTING CONTROL ENCLOSED CONTACTOR	3 0		17. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH PLUMBING CONTRACTOR A WATER COOLER / BOTTLE FILLER SHOP DRAWINGS FOR MOUNTING HEIGHT AND
TS	TIME SWITCH			OF PLUMBING EQUIPMENT POWER CONNECTIONS. READILY ACCESSIBLE GFCI P PROVIDED FOR THE BRANCH CIRCUIT(S) SUPPLYING ALL SUCH UNITS PER NEC R
LCM	LIGHTING CONTROL MODULE	ES		18. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR DETAILED INFORMATION RI AND CONTROL. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEV ITEMS AS SPECIFICALLY LISTED AND ASSIGNED ON MECHANICAL EQUIPMENT SC
LCP	LIGHTING CONTROL PANEL	K		DISCONNECT SWITCHES, VARIABLE FREQUENCY DRIVES, STARTERS, TIMERS, SV 19. ELECTRICAL CONTRACTOR SHALL CONFIRM THE LOCATION OF THE EXHAUST FA
INV-1	EMERGENCY LIGHTING INVERTER, TYPE 1		INTERCOM STATION	 ELECTRICAL CONTRACTOR STILL CONTINUE THE EXCLUSION OF THE EXCLUSION AND MECHANICAL EQUIPMENT SCHEDULES BY REFERRING TO MECHANICAL/HVAC PL 20. REFER TO ROOF PLANS FOR EXACT LOCATIONS OF ROOF-TOP MECHANICAL EQUIPMENT
	WALL-MOUNTED OCCUPANCY SENSOR	SC L	WALL-MOUNTED SURVEILLANCE CAMERA COMMUNICATIONS ROUGH-IN	 20. REFER TO ROOF PEAKSTON EARCT LOCATIONS OF ROOF TO FINE MICHANICAL EQU 21. PROVIDE FLUSH SINGLE-GANG BOXES IN WALLS FOR HVAC / TEMPERATURE CON ONE PER OCCUPIABLE ROOM OR SPACE. INSTALL 3/4" CONDUIT RACEWAY FROM
-	CEILING-MOUNTED OCCUPANCY SENSOR	SC	CEILING-MOUNTED SURVEILLANCE CAMERA COMMUNICATIONS ROUGH IN	CORRESPONDING TEMPERATURE CONTROL SYSTEM DEVICE OR CONTROLLED U MECHANICAL DRAWINGS FOR PROPOSED LOCATIONS AND COORDINATE WITH M
PC	WALL-MOUNTED PHOTOCELL FOR ON/OFF CONTROL	SC1	WALL-MOUNTED SURVEILLANCE CAMERA, TYPE 1	TEMPERATURE CONTROLS CONTRACTOR'S SHOP DRAWINGS. 22. CABINET UNIT HEATERS MAY HAVE LINE-VOLTAGE THERMOSTATS SUPPLIED BY
PC	CEILING-MOUNTED PHOTOCELL FOR ON/OFF CONTROL		CEILING-MOUNTED SURVEILLANCE CAMERA, TYPE 1	CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. REFER TO ME SCHEDULE.
PS	WALL-MOUNTED PHOTOSENSOR FOR DAYLIGHT HARVESTING DIMMING CONTROL	SC1		 DIVISION 26 CONTRACTOR SHALL PROVIDE CONDUIT SLEEVES WITH APPROPRIA' CONTROLS AND ELECTRONIC SAFETY/SECURITY CABLING THROUGH WALLS AND SHALL BE COORDINATED WITH CABLING REQUIREMENTS.
PS	CEILING-MOUNTED PHOTOSENSOR FOR DAYLIGHT HARVESTING DIMMING CONTROL			24. SECTION 27 05 28 CONTRACTOR SHALL PROVIDE DEDICATED CONDUIT SLEEVES BUSHINGS THROUGH WALLS AND FLOORS FOR DIV. 27 COMMUNICATIONS AND D
	POLE-MOUNTED SITE/AREA FIXTURE		CEILING-MOUNTED INFRARED MOTION DETECTOR	CABLING. SLEEVE SIZE SHALL BE MINIMUM 2" DIA. OR EQUIVALENT FREE AREA U OTHERWISE. SPECIFIED CABLE PATHWAY PENETRATION DEVICES SHALL BE SUE SLEEVES WHERE THERE IS A REQUIRED RATING IN THE CONSTRUCTED ASSEMBI
	SELF-CONTAINED EMERGENCY LIGHTING UNIT		WALL-MOUNTED ULTRASONIC MOTION DETECTOR	25. BUILDING SYSTEMS CABLING SHALL BE SLEEVED WHERE CABLES PASS THROUG SHALL PASS THROUGH OR OVER THE TOP OF WALL CONSTRUCTION WITHOUT TH
	NOTE: NOT ALL SYMBOLS ARE NECESSARILY USED		CEILING-MOUNTED ULTRASONIC MOTION DETECTOR	DIVISION 26 CONTRACTOR SHALL PROVIDE SLEEVES (UNLESS OTHERWISE ASSIG WITH ARCHITECTURAL TRADES DURING THE WALL CONSTRUCTION PROCESS. T APPLIES TO EXISTING CABLING IN FOOTPRINT OF ANY NEW WALLS; PROVIDE SPL
				CANNOT BE DISCONNECTED. FIELD-VERIFY QUANTITIES AND LOCATIONS, OR CO ALLOWANCES FOR SLEEVES WITH PROJECT ADMINISTRATIVE REQUIREMENTS.
			CARD READER, MULLION-MOUNTED ACCESS CONTROL DOOR TAG, REFER TO HARDWARE SCHEDULE(S) IN SECTION 08 71 00	26. PROVIDE DIRECT CONNECTIONS FROM DEDICATED STANDBY POWER SYSTEM BF ACCESS CONTROL SYSTEM AND DOOR HARDWARE POWER SUPPLIES WHERE RE DEVICES, CONTROLLERS, ETC. REFER TO DOOR HARDWARE SCHEDULE AND AC
			AND/OR SECTION 28 10 00 FOR FURTHER DETAILED REQUIREMENTS	SCHEDULE IN RESPECTIVE SPECIFICATIONS FOR QUANTITIES AND LOCATIONS. 27. ALL CONTROLS, COMMUNICATIONS, AND ELECTRONIC SAFETY/SECURITY CABLIN
		ACS		RATED ON THIS PROJECT.
		IDS		
		PSU	POWER SUPPLY UNIT	
		L		

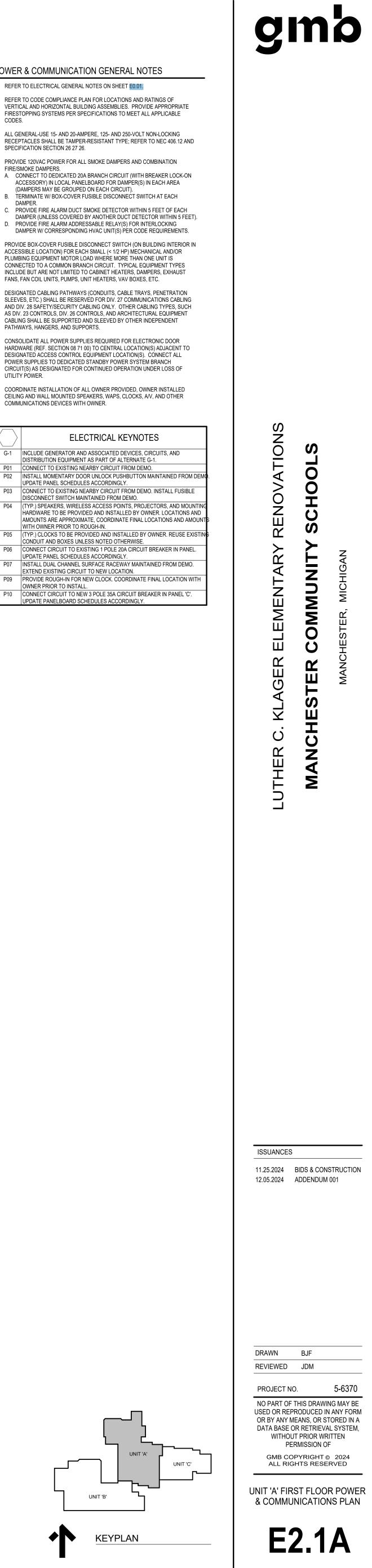






PC	OWER	& COMMUNICATION GENERAL
1.	REFER	TO ELECTRICAL GENERAL NOTES ON SHEET
2.	VERTIC	TO CODE COMPLIANCE PLAN FOR LOCATIONS / CAL AND HORIZONTAL BUILDING ASSEMBLIES. P "OPPING SYSTEMS PER SPECIFICATIONS TO ME 5.
3.	RECEP	NERAL-USE 15- AND 20-AMPERE, 125- AND 250-V TACLES SHALL BE TAMPER-RESISTANT TYPE; R FICATION SECTION 26 27 26.
4.	FIRE/SI A. CC (D. B. TE DA C. PF DA D. PF	DE 120VAC POWER FOR ALL SMOKE DAMPERS A MOKE DAMPERS. DNNECT TO DEDICATED 20A BRANCH CIRCUIT (V CCESSORY) IN LOCAL PANELBOARD FOR DAMPE AMPERS MAY BE GROUPED ON EACH CIRCUIT). RMINATE W/ BOX-COVER FUSIBLE DISCONNECT AMPER. ROVIDE FIRE ALARM DUCT SMOKE DETECTOR W AMPER (UNLESS COVERED BY ANOTHER DUCT D ROVIDE FIRE ALARM ADDRESSABLE RELAY(S) FO AMPER W/ CORRESPONDING HVAC UNIT(S) PER
5.	ACCES PLUMB CONNE INCLUE	DE BOX-COVER FUSIBLE DISCONNECT SWITCH (SIBLE LOCATION) FOR EACH SMALL (< 1/2 HP) M ING EQUIPMENT MOTOR LOAD WHERE MORE TH COTED TO A COMMON BRANCH CIRCUIT. TYPICA DE BUT ARE NOT LIMITED TO CABINET HEATERS FAN COIL UNITS, PUMPS, UNIT HEATERS, VAV BO
6.	SLEEVI AND DI AS DIV CABLIN	NATED CABLING PATHWAYS (CONDUITS, CABLE ES, ETC.) SHALL BE RESERVED FOR DIV. 27 COM V. 28 SAFETY/SECURITY CABLING ONLY. OTHEF . 23 CONTROLS, DIV. 26 CONTROLS, AND ARCHIT IG SHALL BE SUPPORTED AND SLEEVED BY OTH /AYS, HANGERS, AND SUPPORTS.
7.	HARDV DESIGI POWEF CIRCUI	DLIDATE ALL POWER SUPPLIES REQUIRED FOR E VARE (REF. SECTION 08 71 00) TO CENTRAL LOC VATED ACCESS CONTROL EQUIPMENT LOCATIO R SUPPLIES TO DEDICATED STANDBY POWER S ^V IT(S) AS DESIGNATED FOR CONTINUED OPERATI Y POWER.
8.	CEILIN	DINATE INSTALLATION OF ALL OWNER PROVIDED G AND WALL MOUNTED SPEAKERS, WAPS, CLOC UNICATIONS DEVICES WITH OWNER.
\langle	\bigcirc	ELECTRICAL KEYI
	G-1	INCLUDE GENERATOR AND ASSOCIATED DEVIC DISTRIBUTION EQUIPMENT AS PART OF ALTERI
	P01	CONNECT TO EXISTING NEARBY CIRCUIT FROM
	P02	INSTALL MOMENTARY DOOR UNLOCK PUSHBU UPDATE PANEL SCHEDULES ACCORDINGLY.
P03		CONNECT TO EXISTING NEARBY CIRCUIT FROM DISCONNECT SWITCH MAINTAINED FROM DEMO
	P04	(TYP.) SPEAKERS, WIRELESS ACCESS POINTS, HARDWARE TO BE PROVIDED AND INSTALLED I

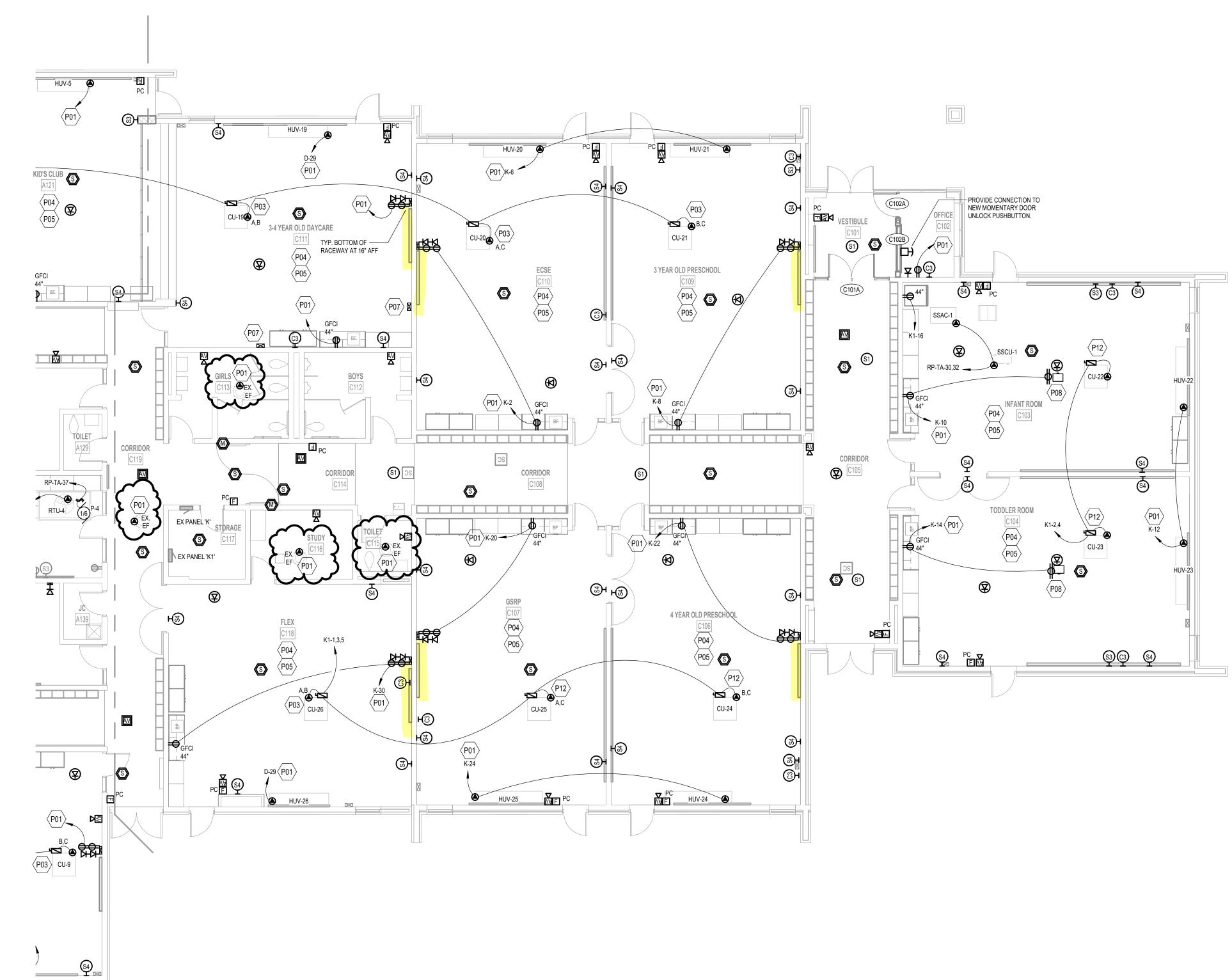
OWNER PRIOR TO INSTALL.







D00 12



UNIT 'C' FIRST FLOOR POWER & COMMUNICATIONS PLAN 1/8" = 1'-0"

PC	OWER	& COM	MUNIC	ATION	GEN	ERAL	١
1.	REFER	TO ELECTRI	CAL GEN	ERAL NOT	ES ON S	HEET <mark>E0</mark>	.0
2.	VERTIC	TO CODE CO AL AND HOF OPPING SYS	RIZONTAL	BUILDING	ASSEME	BLIES. P	R
3.	RECEP	NERAL-USE TACLES SHA ICATION SEG	LL BE TA	MPER-RES			
4.	FIRE/SM A. CC AC (D/ B. TE DA C. PR DA D. PR	DE 120VAC P MOKE DAMPI INNECT TO L CESSORY) II AMPERS MA' RMINATE W/ MPER. OVIDE FIRE MPER (UNLE OVIDE FIRE MPER W/ CC	ERS. Dedicate N Local Y Be Gro Box-Cov Alarm D Ess Cove Alarm A	ED 20A BR/ PANELBO/ UPED ON /ER FUSIB UCT SMOH ERED BY A DDRESSA	ANCH CIF ARD FOR EACH CI SLE DISC (E DETE NOTHER BLE REL)	RCUIT (W DAMPE RCUIT). ONNECT CTOR WI DUCT D AY(S) FO	
5.	ACCES PLUMB CONNE INCLUD	DE BOX-COV SIBLE LOCA ING EQUIPM CTED TO A (DE BUT ARE I FAN COIL UN	FION) FOF ENT MOT COMMON NOT LIMIT	R EACH SM OR LOAD BRANCH (ED TO CA	IALL (< 1, WHERE N CIRCUIT. BINET HE	/2 HP) MI MORE TH TYPICA EATERS,	E(IA L
6.	SLEEVE AND DIV AS DIV. CABLIN	IATED CABL ES, ETC.) SH V. 28 SAFET 23 CONTRO G SHALL BE AYS, HANGE	ALL BE RE (/SECURI LS, DIV. 2 SUPPOR	ESERVED TY CABLIN 6 CONTRO TED AND 5	FOR DIV. IG ONLY. DLS, AND SLEEVED	27 COM OTHER ARCHIT	M C E
7.	HARDW DESIGN POWER CIRCUI	LIDATE ALL VARE (REF. S IATED ACCE & SUPPLIES T T(S) AS DESI V POWER.	ECTION (SS CONT	08 71 00) T ROL EQUI ATED STA	o centr Pment L Ndby Pc	RAL LOCA OCATION WER SY	41 V('S
8.	CEILING	INATE INSTA S AND WALL INICATIONS	MOUNTE	D SPEAKE	RS, WAP	Rovided PS, Cloc), K
\langle	\bigcirc		ł	ELECT	RICAL	. KEYI	N
F	P01 P03	CONNECT 1 CONNECT 1 DISCONNEC	O EXISTI	NG NEARE	BY CIRCU	JIT FROM	1
	P04	(TYP.) SPEA HARDWARE AMOUNTS A WITH OWNE	KERS, W TO BE P ARE APPR	RELESS A ROVIDED A ROXIMATE,	ACCESS F AND INS COORD	POINTS, TALLED E	P 3\
	DOF						_

