

A	AMPERE	MC	MICROPHONE
AC	ALTERNATING CURRENT	MLO	MICRO WAVE
AFF	ABOVE FINISHED FLOOR	MT	MAIN LUG ONLY MOUNT
AFG	ABOVE FINISHED GRADE	MTS	MANUAL TRANSFER SWITCH
AHU	AIR HANDLING UNIT	MCP	MOTOR CONTROL PANEL
AIC	AMPERES INTERRUPTING CAPACITY	MH	METAL HALIDE
ATS	AUTOMATIC TRANSFER SWITCH	MDP	MAIN DISTRIBUTION PANEL
AWG	AMERICAN WIRE GAUGE	MIN	MINIMUM
BAS	BUILDING AUTOMATION SYSTEM	N	NEUTRAL
BKBD	BACKBOARD	NC	NORMALLY CLOSED
C	CONDUIT	NEC	NATIONAL ELECTRICAL CODE
CAT	CATALOG, CATEGORY	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CATV	CABLE TV	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CB	CIRCUIT BREAKER	NIC	NOT IN CONTRACT
CCTV	CLOSED CIRCUIT TELEVISION	NF	NON-FUSED
CM	CIRCULAR MILS	NO	NORMALLY OPEN
COMM	COMMUNICATIONS	NO.	NUMBER
CU	MECH CONDENSING UNIT	NTS	NOT TO SCALE
CUH	CABINET UNIT HEATER	OC	ON CENTER
DC	DIRECT CURRENT	OCC	OCCUPANCY
DDC	DIGITAL DIRECT CONTROL	OH	OVERHEAD
DN	DOWN	P	POLE
DW	DISHWASHER	PA	PUBLIC ADDRESS
DWG	DRAWING	PH	PHASE
EF	EXHAUST FAN	PIR	PASSIVE INFRARED
ELEV	ELEVATOR	PNL	PANELBOARD
EMT	ELECTRICAL METALLIC TUBING	PIO	PART OF
EP	EXPLOSION PROOF	PVT	PHOTOVOLTAIC
ERU	ENERGY RECOVERY UNIT	PVC	POLY-VINYL CHLORIDE
EWC	ELECTRIC WATER COOLER	REC	RECEPTACLE
FACP	FIRE ALARM CONTROL PANEL	RECEPT	
FB	FLOOR BOX	REF	REFRIGERATOR
FLA	FULL LOAD AMPS	RF	RETURN FAN
FWE	FURNISHED WITH EQUIPMENT	RGS	RIGID GALVANIZED STEEL
G, GND	GROUND	RM	ROOM
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	RMC	RIGID METAL CONDUIT
GFP	GROUND FAULT PROTECTION	RTU	ROOFTOP UNIT
HID	HIGH INTENSITY DISCHARGE	REF	REFRIGERATOR
HOA	HAND-OFF-AUTO SELECTOR SWITCH	SF	SUPPLY FAN
HP	HORSEPOWER	SPDT	SINGLE POLE, DOUBLE THROW SWITCH
HVAC	HEATING, VENTILATION AND COOLING UNIT	SQ	SQUARE
IDS	INTRUSION DETECTION SYSTEM	TEL	TELEPHONE
IG	ISOLATED GROUND	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
IMC	INTERMEDIATE METAL CONDUIT	TYP	TYPICAL
IR	INFRARED	UF	UNDER FLOOR
K	KILO	UG	UNDERGROUND
KMIL	KILO CIRCULAR MILS	UH	UNIT HEATER
KW	KILOWATT	UL	UNDERWRITER'S LABORATORY
KVA	KILO VOLT-AMPS	UNO	UNLESS NOTED OTHERWISE
LAN	LOCAL AREA NETWORK	UPS	UNINTERRUPTIBLE POWER SUPPLY
LC	LIGHTING CONTACTOR	V	VOLTS
LF	LINEAR FEET	VFD	VARIABLE FREQUENCY DRIVE
LC	LOADCENTER	W	WATT
LCP	LIGHTING CONTROL PANEL	WP	WEATHERPROOF
LED	LIGHT EMITTING DIODE	WG	WIREGUARD
LTG	LIGHTING	XFMR	TRANSFORMER
LTS	LIGHTS	(E)	EXISTING ITEM TO REMAIN
MAX	MAXIMUM	(R)	REMOVE ITEM AND DISPOSE OF PROPERLY
MCB	MAIN CIRCUIT BREAKER	(ER)	RELOCATED ITEM AT NEW LOCATION
MECH	MECHANICAL	(RL)	REMOVE AND RELOCATE
MH	MOUNTING HEIGHT		

SEC	SECURITY PANEL, MOUNT WITH TOP OF PANEL NOT MORE THAN 72" AFF
ANN	ANNUNCIATOR, MOUNT WITH TOP OF PANEL NOT MORE THAN 72" AFF
KP	KEYPAD, MOUNT 48" AFF
CC	CAMERA, MOUNTED TO WALL
CC	CAMERA, MOUNTED IN CEILING OR SOFFIT
CA	CARD ACCESS
DC	DOOR CONTACT
DL	MAGNETIC DOOR LOCK
DR	DOOR RELEASE BUTTON
DS	DOOR SWITCH
SECURITY GENERAL NOTES	
1. DIVISION 26 SHALL PROVIDE BOXES AND CONDUITS WITH PULL STRINGS AS INDICATED. CABLING AND TERMINATIONS SHALL BE BY OWNER.	
2. FOR EACH TECHNOLOGY OUTLET, PROVIDE A 2-GANG BOX WITH 1-GANG ADAPTER. PROVIDE A 1" CONDUIT FROM EACH OUTLET BOX TO 6" ABOVE THE NEAREST ACCESSIBLE CEILING THAT IS CONTIGUOUS TO A J-HOOK OR CABLE TRAY PATHWAY.	
F3	SECURITY SYSTEM
NO SCALE	
\$a	LIGHT SWITCH, 20A, 125/277V
\$3	THREE-WAY LIGHT SWITCH
\$4	FOUR-WAY LIGHT SWITCH
\$2	TWO-POLE SWITCH
\$K	KEY OPERATED SWITCH
\$M	MOTOR RATED SWITCH
\$P	SINGLE POLE SWITCH WITH RED PILOT LIGHT - RED LIGHT SHALL GLOW WHEN CIRCUIT IS ENERGIZED
\$3	MULTI-GANGED SWITCHES, GANG UNDER ONE PLATE, LETTER INDICATES SWITCHING
\$OS	OCCUPANCY SENSOR SWITCH, WALL MOUNTED
\$OS2	2-BUTTON OCCUPANCY SENSOR SWITCH
\$OS3	OCCUPANCY SENSOR SWITCH WIRED FOR 3-WAY OPERATION
OS	OCCUPANCY SENSOR, CEILING MOUNTED
OS	OCCUPANCY SENSOR, WALL MOUNTED
\$D	DIMMER SWITCH - COORDINATE DIMMING TECHNOLOGY WITH LOAD TO BE DIMMED
\$H	HANDICAP SWITCHES FOR HOOD LIGHT AND FAN
\$T	TIMER SWITCH, 60 MINUTES
\$LV	LOW VOLTAGE LIGHT SWITCH, MOMENTARY CONTACT
LTC	LIGHTING TIME CLOCK
LC	LIGHTING CONTACTOR
LCP	LIGHTING CONTROL PANEL
PC	PHOTOCELL
NOTES:	
1. MOUNT LIGHT SWITCHES WITH CENTERLINE 48" AFF, UNO	
2. LOWER CASE LETTER AT SWITCH INDICATES SWITCHING	
	HATCHING INDICATES FIXTURE WITH ONE LAMP ON EMERGENCY BATTERY/BALLAST
BP	EMER BATTERY UNIT WITH NO HEADS, MT 7'-6" AFF BP: INDICATES BATTERY UNIT DESIGNATION, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.
BP	EMER BATTERY UNIT WITH INTEGRAL HEADS, MT 7'-6" AFF BP: INDICATES BATTERY UNIT DESIGNATION, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.
BP	SINGLE REMOTE EMERGENCY LIGHT HEAD, MOUNT 7'-6" AFF BP: INDICATES BATTERY UNIT CONNECTED TO
BP	DOUBLE REMOTE EMERGENCY LIGHT HEAD, MOUNT 7'-6" AFF BP: INDICATES BATTERY UNIT CONNECTED TO
	EXIT SIGN, CEILING MOUNTED, SHADING INDICATES FACE(S) ARROWHEAD INDICATES CHEVRON(S) REQUIRED, CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.
	EXIT SIGN, WALL MOUNTED, SHADING INDICATES FACE(S) MOUNT AT 7'-6" AFF OR OVER DOOR. CONNECT TO UNSWITCHED PORTION OF AREA LIGHTING BRANCH CIRCUIT, U.N.O.
ROOM NUMBER XX	LIGHTING CIRCUIT NUMBER OR RELAY NUMBER FOR ROOM
REFER TO LUMINAIRE SCHEDULE FOR FIXTURE TYPES.	
TYPICAL FOR ALL FIXTURE TYPES:	
	INDICATES LUMINAIRE TYPE ON SCHEDULE
F1	LOWER CASE LETTER INDICATES SWITCHING
	INDICATES CIRCUIT NUMBER

NOTE	
SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET ARE FOR REFERENCE ONLY AND DO NOT NECESSARILY INDICATE THEIR INCORPORATION INTO THE DESIGN	
1. BRANCH CIRCUIT WIRING NOT SHOWN. WIRE AND CONNECT ELECTRICAL ITEMS TO CIRCUITS INDICATED.	
2. DISCONNECT, REMOVE, RELOCATE, AND RECONNECT ELECTRICAL CONDUIT, WIRING, DEVICES, BOXES, FIXTURES, EQUIPMENT, ETC. AS INDICATED AND AS REQUIRED TO FACILITATE THE WORK OF DIVISION 26 AND OTHER DIVISIONS. THESE DRAWINGS ARE NOT INTENDED TO INDICATE ALL ITEMS TO BE REMOVED.	
3. DO NOT SCALE THE DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS FOR EXACT DIMENSIONS.	
4. THE LOCATION OF EQUIPMENT, OUTLETS, ETC. AS GIVEN ON THE DRAWINGS IS APPROXIMATE. IT SHALL BE UNDERSTOOD THAT THESE LOCATIONS ARE SUBJECT TO MODIFICATION AS MAY BE FOUND NECESSARY OR DESIRABLE AT THE TIME OF INSTALLATION IN ORDER TO MEET PROJECT REQUIREMENTS. SUCH CHANGES SHALL BE MADE WITHOUT EXTRA CHARGE.	
5. COORDINATE ALL WORK WITH OTHER DIVISIONS AND THE OWNER.	
6. VERIFY EXACT POWER REQUIREMENTS OF EQUIPMENT PRIOR TO ROUGH IN	
7. POWER WIRING FOR EQUIPMENT & CONTROL SHALL BE PERFORMED BY DIVISION 26. ALL CONTROL WIRING OPERATING AT LESS THAN 120 VOLTS FOR MECHANICAL EQUIPMENT SHALL BE BY DIVISION 23.	
8. NO WIRING THAT BECOMES UNUSED AS PART OF THIS PROJECT SHALL BE ABANDONED IN PLACE.	
10. COORDINATE EXACT LOCATIONS OF LUMINAIRES WITH ARCHITECT PRIOR TO ROUGH-IN. CONFIRM LOCATIONS OF ALL ITEMS WITH ARCHITECT.	
11. ALIGN DEVICES VERTICALLY WHENEVER POSSIBLE. E.G. FA STROBE ALIGNING WITH SWITCH NEXT TO DOORS OF BATHROOMS, ETC	
F5	GENERAL NOTES
	20A, 125V, 2P, 3W, NEMA 5-20R
	20A, 125V, 2P, 3W, NEMA L5-20R (TWISTLOCK)
	30A DRYER RECEPTACLE - 125/250V, 3P, 4W, GROUNDING, NEMA 14-30R, (3) .10 (1) .10G TO 30A, 2P CIRCUIT BREAKER
	30A, 250V, 2P, 3W, NEMA 6-30R
	50A RANGE RECEPTACLE - 125/250V, 3P, 4W, GROUNDING, NEMA 14-50R, (3) .6 (1) .10 TO 50A, 2P CIRCUIT BREAKER
	50A RECEPTACLE - 250V, 3P, NEMA 15-50R, (3) .8 (1) .10 TO 50A, 2P CIRCUIT BREAKER
NOTE:	
PROVIDE MATCHING CORD AND PLUG FOR SINGLE RECEPTACLES	
F	DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W, NEMA 5-20R, MOUNT IN FLUSH FLOOR BOX
F	DOUBLE DUPLEX RECEPTACLE, 20A, 125V, 2P, 3W, NEMA 5-20R, MOUNT IN FLUSH FLOOR BOX
F	JUNCTION BOX, MOUNT IN FLUSH FLOOR BOX
F	EMPTY FLUSH FLOOR BOX
P	DUPLEX RECEPTACLE, PEDESTAL MOUNTED
P	SINGLE RECEPTACLE, PEDESTAL MOUNTED
P	JUNCTION BOX, PEDESTAL MOUNTED
C	DUPLEX RECEPTACLE, FLUSH MOUNTED IN CEILING
C	DOUBLE DUPLEX RECEPTACLE, FLUSH MOUNTED IN CEILING
C	DUPLEX GFCI RECEPTACLE, FLUSH MOUNTED IN CEILING
C	DOUBLE DUPLEX GFCI RECEPTACLE, FLUSH MOUNTED IN CEILING
C	DATA OUTLET, FLUSH MOUNTED IN CEILING, SEE SCHEDULE FOR TYPE
C	JUNCTION BOX, FLUSH MOUNTED IN CEILING
	OVERHEAD RECEPTACLE DROP, DUPLEX
	OVERHEAD RECEPTACLE DROP, DOUBLE DUPLEX
	OVERHEAD RECEPTACLE DROP, GFCI
	DUPLEX RECEPTACLE - 20A, 125V, 2P, 3W, NEMA 5-20R
	DOUBLE DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE, HATCH INDICATES CONNECTION TO XXX
	GFCI DUPLEX RECEPTACLE, MOUNT 44" AFF UNO
	GFCI DOUBLE DUPLEX RECEPTACLE, MOUNT 44" AFF UNO
	GFCI RECEPTACLE WITH WEATHERPROOF COVER
	GFCI RECEPTACLE IN WP ENCLOSURE ON ROOF
	MULTI-OUTLET STRIP, PROVIDE OUTLETS 24" OC UNO, MOUNT 48" AFF UNO
NOTES:	
1. MOUNT RECEPTACLES WITH CENTERLINE 18" AFF UNO	
2. MOUNT EXTERIOR RECEPTACLES WITH CENTERLINE 24" AFF UNO	

FACP	FIRE ALARM CONTROL PANEL, MOUNT WITH TOP OF PANEL NOT MORE THAN 72" AFF										
FAA	FIRE ALARM ANNUNCIATOR, MOUNT WITH TOP OF PANEL NOT MORE THAN 72" AFF										
	SMOKE DETECTOR										
	SMOKE DETECTOR, "E" INDICATES CONNECTION FOR ELEVATOR RECALL										
	HEAT DETECTOR										
	HEAT DETECTOR, "E" INDICATES CONNECTION FOR ELEVATOR RECALL										
	DUCT SMOKE DETECTOR										
	GAS VALVE										
RTS	REMOTE TEST/INDICATOR FOR DUCT SMOKES, MOUNT ON CEILING BENEATH UNIT, OR WALL MOUNT WHERE INDICATED ON PLANS										
RT	MANUAL PULL STATION, MOUNT 48" AFF										
30	HORN/STROBE NOTIFICATION APPLIANCE, CANDELA AS NOTED ON PLANS										
30	SPEAKER/STROBE NOTIFICATION APPLIANCE, CANDELA AS NOTED ON PLANS										
15	STROBE ONLY NOTIFICATION APPLIANCE, CANDELA AS NOTED ON PLANS										
R	STROBE NOTIFICATION APPLIANCE, 15 CANDELA, 120V, CONNECT TO OPERATE UPON ACTIVATION OF ROOM SMOKE DETECTOR										
MB	MINI HORN NOTIFICATION APPLIANCE										
30	HORN/STROBE WITH PULL STATION DIRECTLY BELOW										
	MAGNETIC DOOR HOLD OPEN DEVICE										
T	TRANSFORMER										
	SPRINKLER SYSTEM WATER FLOW SWITCH, PROVIDED UNDER DIVISION 23, WIRED UNDER DIVISION 26										
	SPRINKLER SYSTEM TAMPER SWITCH, PROVIDED UNDER DIVISION 23, WIRED UNDER DIVISION 26										
	SPRINKLER SYSTEM CHECK VALVE PRESSURE SWITCH, FURNISHED AND INSTALLED UNDER DIVISION 23, WIRED UNDER DIVISION 26										
	SPRINKLER SYSTEM EXCESS PRESSURE PUMP, FURNISHED AND INSTALLED UNDER DIVISION 23, WIRED UNDER DIVISION 26										
K	KNOX BOX, PROVIDE IN ACCORDANCE WITH LOCAL FIRE DEPARTMENT REQUIREMENTS										
SD	SMOKE DAMPER										
FSD	FIRE AND SMOKE DAMPER										
MB	MASTER BOX										
D7	FIRE ALARM SYSTEM										
NO SCALE											
TECHNOLOGY MATRIX											
TECHNOLOGY GENERAL NOTES											
1. DIVISION 26 SHALL PROVIDE BOXES AND CONDUITS WITH PULL STRINGS AS INDICATED TO 6" ABOVE THE NEAREST ACCESSIBLE CEILING THAT IS CONTIGUOUS TO A J-HOOK OR CABLE TRAY PATHWAY.											
SYMBOL	MTG HT AFF UNO	DESCRIPTION	KEY NOTE	CONDUIT SIZE	BOX TYPE	OUTLET TYPE				CABLING	
	18"	(1) VOICE AND (1) DATA OUTLETS		3/4"	X	1	1				2
	18"	(2) VOICE AND (2) DATA OUTLETS		3/4"	X	1	2				4
	18"	(1) VOICE AND (2) DATA OUTLETS		3/4"	X	1	2				3
	18"	(1) DATA OUTLET		3/4"	X		1				1
	18"	(2) DATA OUTLETS		3/4"	X		2				2
W	45"	WALL PHONE OUTLET		3/4"				1			1
E	18"	PHONE OUTLET FOR ELEVATOR CONNECTION		3/4"				1			1
TV	18"	CATV OUTLET		3/4"	X						1
WA	ABOVE CEILING	DATA OUTLET FOR WIRELESS ACCESS POINT			X			1			1
		UNDERFLOOR BOX WITH (1) VOICE AND (4) DATA OUTLETS AND (4) DUPLEX RECEPTACLES	2			X	1	4		4	5
NOTES:											
1. MOUNTING HEIGHT AS NOTED ON PLANS											
2. FLOOR BOX BASIS OF DESIGN: FSR, INC FL-600P SERIES											

	PANELBOARD - SURFACE MOUNTED
	PANELBOARD - FLUSH MOUNTED
	FUSED DISCONNECT SWITCH
	NON-FUSED DISCONNECT SWITCH
00	MOTOR STARTER - NUMBER INDICATES NEMA SIZE
00	COMBINATION MOTOR STARTER/FUSED DISCONNECT
	MOTOR OR FAN
M	METER AND CABINET
J	JUNCTION BOX - CEILING MOUNTED
J	JUNCTION BOX - WALL MOUNTED
J	JUNCTION BOX - FLOOR MOUNTED
J	JUNCTION BOX - PEDESTAL MOUNTED
T	TRANSFORMER - NUMBER INDICATES DESIGNATION SEE TRANSFORMER SCHEDULE
VFD	VARIABLE FREQUENCY DRIVE
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
E	EMERGENCY SHUTOFF SWITCH - WALL MOUNTED 48" TO CENTERLINE - PROVIDE TAMPER-PROOF COVER
	CONDUIT TURNING UP
	CONDUIT TURNING DOWN
	WIRING UNDERGROUND OR UNDERSLAB
	HOMERUN - (2) .12 (1) .12G UNO (EXCEPT LIGHTING CIRCUITS: (1) .12 (1) .10N (1) .12G UNO)
	SINGLE-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT
	3-PHASE HOMERUN OR MULTIPLE HOMERUN UTILIZING THE SAME CONDUIT
	FLEXIBLE CONNECTION
	GROUNDING SYSTEM
	MOTORIZED DOOR OPERATOR AND PUSH PADDLE - FURNISHED BY DIVISION 08, WIRED BY DIVISION 26
CB	ENCLOSED CIRCUIT BREAKER
CO	CARBON MONOXIDE DETECTOR
GD	GAS DETECTOR
\$FANS	WALL MOUNTED PADDLE FAN CONTROLLER
D9	POWER DISTRIBUTION
NO SCALE	

A1	ABBREVIATIONS
NO SCALE	

A3	LIGHTING
NO SCALE	

A5	RECEPTACLES
NO SCALE	

A7	TECHNOLOGY MATRIX
NO SCALE	

E000

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ADDITION & RENOVATIONS

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ELECTRICAL ABBREVIATIONS, LEGENDS AND GENERAL NOTES