

ELECTRICAL LEGEND

- GENERAL ELECTRICAL DEVICES:**
- § SINGLE POLE LIGHTING SWITCH. MOUNT 48" AFF UNLESS NOTED OTHERWISE. SUBSCRIPT INDICATES AS FOLLOWS:
 - 3 - THREE-WAY LIGHTING SWITCH.
 - 4 - FOUR-WAY LIGHTING SWITCH.
 - D - LOW VOLTAGE DIMMER. SWITCH SHALL BE PROGRAMMED TO BE MANUAL ON.
 - D1 - DIMMING WALL SWITCH WITH OCCUPANCY SENSOR. SWITCH SHALL BE PROGRAMMED TO BE MANUAL ON.
 - ⇒ DUPLEX RECEPTACLE NEMA 5-20R. MOUNT 18" AFF UNLESS NOTED OTHERWISE. VERIFY DUPLEX MOUNTING REQUIREMENTS WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. SUBSCRIPT INDICATES AS FOLLOWS:
 - G - GROUND FAULT CIRCUIT INTERRUPTER TYPE.
 - WP - GFI DEVICE WITH DIECAST WEATHERPROOF BACKBOX & CLEAR WEATHERPROOF (IN-USE) COVERPLATE. IN EXTERIOR LOCATIONS MOUNT 30" AFG.
 - EWC - CONCEAL RECEPTACLE BEHIND EWC (COORDINATE WITH DIVISION 15).
 - D - SHALL BE ON DEDICATED CIRCUIT.
 - TV - COORDINATE RECEPTACLE LOCATION WITH AV OUTLET.
 - 84" - MOUNTING HEIGHT OF DEVICE AFF.
 - E - ON EMERGENCY CIRCUIT.
 - 21 - # INDICATES PANELBOARD CKT NUMBER
 - IG - INDICATES ISOLATED GROUND (IG) RECEPTACLE. PROVIDE IG CONDUCTOR AS WELL AS EGC.
 - ⇒ DUPLEX RECEPTACLE MOUNTED 42" AFF. OR MOUNT 7" ABOVE COUNTER. VERIFY COUNTER HEIGHT PRIOR TO ROUGH-IN. ORIENT WITH LONG AXIS HORIZONTAL ABOVE COUNTERS.
 - ⇒ QUADRAPLEX RECEPTACLE (TWO NEMA 5-20R) MOUNTED 18" AFF. UNLESS NOTED OTHERWISE.
 - ⇒ QUADRAPLEX RECEPTACLE (TWO NEMA 5-20R) MOUNTED 42" AFF. OR MOUNT 7" ABOVE COUNTER. VERIFY COUNTER HEIGHT PRIOR TO ROUGH-IN.
 - ⇒ DUPLEX RECEPTACLE NEMA 5-20R. MOUNTED IN MILLWORK.

- OCCUPANCY SENSORS:**
- D WALL MOUNTED LINE VOLTAGE DUAL TECHNOLOGY SWITCH WITH SINGLE RELAY. MOUNT 48" AFF UNLESS NOTED OTHERWISE. SWITCH SHALL BE PROGRAMMED TO BE MANUAL ON.
 - D2 WALL MOUNTED LINE VOLTAGE DUAL TECHNOLOGY SWITCH WITH DUAL RELAYS. EACH RELAY IS TO HAVE INDEPENDENT DELAY CONTROL. MOUNT 48" AFF UNLESS NOTED OTHERWISE. SWITCH SHALL BE PROGRAMMED TO BE MANUAL ON.
 - D11 CEILING MOUNTED LOW VOLTAGE 360° DUAL TECHNOLOGY (PASSIVE INFRARED & ULTRASONIC) OCCUPANCY SENSOR.
 - PP2 POWER PACK. PROVIDE WITH NEMA 1 ENCLOSURE.
- DISTRIBUTION & POWER EQUIPMENT:**
- ☐ PANELBOARD. MOUNT AS INDICATED. SEE PANELBOARD SCHEDULES.
 - ☐ NON-FUSED GENERAL DUTY SAFETY SWITCH. SIZE FOR LOAD BEING SERVED.
 - T TRANSFORMER. MOUNT AS INDICATED. SEE XFMR SCHEDULE FOR SIZE AND TYPE.

- FIRE ALARM SYSTEM:**
- ☐ FIRE ALARM SYSTEM ADDRESSABLE SINGLE ACTION MANUAL PULL STATION. MOUNT 48" TO CENTER OF DEVICE. PROVIDE WITH CLEAR AUDIBLE PROTECTIVE SHIELD.
 - ☐ FIRE ALARM SYSTEM AUDIO-VISUAL ALARM (CANDELA AS INDICATED ON SUBSCRIPT). MOUNT 80" AFF TO BOTTOM OF LENS OR 6" FROM THE CEILING, WHICHEVER IS LOWER. ALL STROBES SHALL BE SYNCHRONIZED. SUBSCRIPT "WG" INDICATES PROVIDE A WIRE GUARD OVER DEVICE.
 - ☐ FIRE ALARM SYSTEM VISUAL ONLY APPLIANCE (CANDELA AS INDICATED ON SUBSCRIPT). MOUNT 80" AFF TO BOTTOM OF LENS OR 6" FROM THE CEILING, WHICHEVER IS LOWER. ALL STROBES SHALL BE SYNCHRONIZED. SUBSCRIPT "WP" INDICATES WEATHERPROOF DEVICE.
 - ☐ FIRE ALARM SYSTEM ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR. CEILING MOUNT.
 - ☐ MULTIPLEXED ADDRESSABLE FIRE ALARM CONTROL PANEL. BATTERY SUPPLIES TO BE MOUNTED WITH FACP. REMOTE BOOSTER TYPE BATTERY POWER SUPPLIES WILL NOT BE ALLOWED UNLESS SPECIFICALLY SHOWN ON PLANS. FIELD VERIFY EXISTING MOUNTING LOCATION.

- MISCELLANEOUS EQUIPMENT:**
- ☐ EXHAUST FAN.
 - ☐ JUNCTION BOX.
 - ELECTRICAL CONNECTION TO EQUIPMENT. VERIFY LOCATION WITH EQUIPMENT PROVIDER.
- ACCESS CONTROL/SECURITY MANAGEMENT SYSTEM:**
- ☐ ACCESS CONTROL CAMERA. INSTALL A 2 1/2" CONDUIT WITH A 4" JUNCTION BOX IN THE CEILING IN AN ACCESSIBLE SPACE.
- LIGHTING CONTROL EQUIPMENT:**
- ☐ PHOTOELECTRIC CELL. SEE LIGHTING CONTROL DIAGRAM AND CONNECT AS REQUIRED.

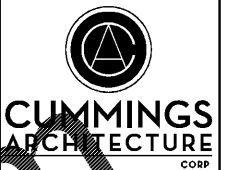
- OTHER:**
- CIRCUIT RUN CONCEALED ABOVE CEILING OR IN WALL.
 - CIRCUIT RUN CONCEALED IN OR BELOW FLOOR SLAB OR UNDERGROUND.
 - 2P2-9 ○ HOMERUN TO PANELBOARD. ANY CIRCUIT WITHOUT FURTHER DESIGNATION SHALL BE 2#12.#12G.1/2". TICK MARKS INDICATE # OF CONDUCTORS (EGC NOT SHOWN). MINIMUM SIZE ON 120V HOMERUNS GREATER THAN 50 FEET SHALL BE #10 AWG. MINIMUM SIZE ON 120V HOMERUNS GREATER THAN 100 FEET SHALL BE #8 AWG. MINIMUM SIZE ON 277V HOMERUNS GREATER THAN 100 FEET SHALL BE #10 AWG. INCREASE CONDUIT SIZE AS REQUIRED PER NEC. UNDERLINED TEXT INDICATES CIRCUIT DESIGNATION.
 - LOW VOLTAGE CABLE AS SPECIFIED BY THE MANUFACTURER.
 - EMERGENCY (NEC ART. 700) CIRCUIT RUN CONCEALED ABOVE CEILING OR IN WALL.
 - OPTIONAL (NEC ART. 702) CIRCUIT RUN CONCEALED ABOVE CEILING OR IN WALL.
 - AHU 1 MECHANICAL EQUIPMENT IDENTIFICATION TAG. SEE MECHANICAL EQUIPMENT ELECTRICAL SCHEDULE.
 - F2L LIGHT FIXTURE IDENTIFICATION TAG. SEE LIGHT FIXTURE SCHEDULE FOR SYMBOLS & DETAILS.
 - 1 SHEET NOTE TAG.
 - 4LP1 PANELBOARD, SWITCHBOARD, TRANSFORMER & ELECTRICAL EQUIPMENT IDENTIFICATION TAG.
 - NAME 100 ROOM NUMBER TAG.
 - LEADERS.
- TELECOMMUNICATIONS SYSTEM:**
- ▶ COMMUNICATIONS OUTLET. PROVIDE A DEEP 4" SQUARE BOX WITH A 3/4" CONDUIT WITH BUSHINGS ON BOTH ENDS TO THE ACCESSIBLE AREA ABOVE THE CEILING. PROVIDE TWO CATEGORY 5e CABLES FROM THE DEVICE LOCATION TO THE COMMUNICATIONS BACKBOARD. MOUNT AT 18" A.F.F. UNLESS SUBSCRIBED OTHERWISE.

UNDERGROUND CONDUIT SYSTEM LEGEND

- FIRE ALARM
- TELECOMMUNICATIONS
- SITE LIGHTING
- POWER
- UNDERGROUND

ABBREVIATIONS

A	AMPS	MCM	THOUSAND CIRCULAR MILS
AC	ABOVE COUNTER	MH	MANHOLE
AF	AMP FRAME	MIN	MINIMUM
AFF	ABOVE FINISHED FLOOR	MISC	MISCELLANEOUS
AFG	ABOVE FINISHED GRADE	MLO	MAIN LUGS ONLY
AHU	AIR HANDLING UNIT	MNT	MOUNTING HEIGHT
AL	ALUMINUM	MTG	MOUNTING
ARCH	ARCHITECT OR ARCHITECTURAL	MTS	MANUAL TRANSFER SWITCH
AT	AMP TRIP	MV	MEDIUM VOLTAGE
ATS	AUTOMATIC TRANSFER SWITCH	N1	NEMA 1
ATU	AIR TERMINAL UNIT	N3R	NEMA 3R
AWG	AMERICAN WIRE GAUGE	N/A	NOT APPLICABLE
BAS	BUILDING AUTOMATION SYSTEM	NA	NOT APPLICABLE
BJ	BONDING JUMPER	NEC	NATIONAL ELECTRICAL CODE
BKR	CIRCUIT BREAKER	NESC	NATIONAL ELECTRICAL SAFETY CODE
BLDG	BUILDING	NEU	NEUTRAL
BOD	BASIS OF DESIGN	OCPD	OVERCURRENT PROTECTION DEVICE
C	CONDUIT	OFOI	OWNER FURNISHED OWNERS' INSTALLED
C/B	CIRCUIT BREAKER	OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
CL	CURRENT LIMITING	OH	OVERHEAD
C/L	CENTERLINE	OHE	OVERHEAD ELECTRIC
CLG	CEILING	OHP	OVERHEAD PRIMARY
CKT	CIRCUIT	OHS	OVERHEAD SECONDARY
CT	CURRENT TRANSFORMER	P	PANELBOARD
CJ	COPPER	PF	POWER FACTOR
DDC	DIRECT DIGITAL CONTROL	PNL	PANELBOARD
DEMO	DEMOLISH	PT	POTENTIAL TRANSFORMER
EC	ELECTRICAL CONTRACTOR	PT	POTENTIAL TRANSFORMER
EGC	EQUIPMENT GROUNDING CONDUCTOR	PT	POTENTIAL TRANSFORMER
ELEC	ELECTRICAL	RPT	RECEPTACLE
EMGB	ELECTRICAL MAIN GROUNDING BUSBAR	REQD	REQUIRED
EF	EXHAUST FAN	RGS	RIGID GALVANIZED STEEL CONDUIT
EX	EXISTING TO REMAIN	RNC	RIGID NON-METALLIC CONDUIT
EXT	EXTERIOR	RVSS	REDUCED VOLTAGE SOLID STATE
EWC	ELECTRIC WATER COOLER	SA	SURGE ARRESTER
EMT	ELECTRICAL METALLIC TUBING	SCA	SHORT CIRCUIT AMPS
EQUIP	EQUIPMENT	SF	SUPPLY FAN
FMC	FLEXIBLE METAL CONDUIT	SPEC	SPECIFICATION
FACP	FIRE ALARM SYSTEM CONTROL PANEL	SWBD	SWITCHBOARD
FUSE	FUSE	SWGDR	SWITCHGEAR
FAL	FIRE ALARM	TBB	TELECOMMUNICATIONS BONDING BACKBONE
FLA	FULL LOAD AMPS	TR	TELECOMMUNICATIONS ROOM
FLR	FLOOR	TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
FNR	FULL VOLTAGE NON-REVERSING	TMGB	TELECOMMUNICATIONS MAIN GROUNDING
G	GROUND (OR GFI FOR RECEPTACLE SUBSCRIPT)	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GND	GROUND	UFR	UNDERFLOOR RACEWAY
GEC	GROUNDING ELECTRODE CONDUCTOR	UG	UNDERGROUND
HH	HANDHOLE	UGE	UNDERGROUND ELECTRIC
HOA	HAND-OFF-AUTOMATIC	UGP	UNDERGROUND PRIMARY
HP	HEAT PUMP OR HORSEPOWER	UGS	UNDERGROUND SECONDARY
HVAC	HEATING, VENTILATION & AIR-CONDITIONING	UL	UNDERWRITERS' LABORATORIES
IG	ISOLATED GROUND	UNO	UNLESS NOTED OTHERWISE
IMC	INTERMEDIATE METAL CONDUIT	UPS	UNINTERRUPTIBLE POWER SUPPLY
JB	JUNCTION BOX	V	VOLT
k	KILO	VA	VOLT-AMPERES
KAIC	KILO-AMPERE INTERRUPTING CAPABILITY	VAR	VOLT-AMPERES REACTIVE
KCML	THOUSAND CIRCULAR MILS	VAV	VARIABLE AIR VOLUME UNIT
LCP	LIGHTING CONTROL PANEL	W	WATTS
LTG	LIGHTING	WAO	WORK AREA OUTLET
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT	WP	WEATHERPROOF
LV	LOW VOLTAGE	WSR	WITHSTAND RATING
MAX	MAXIMUM	XFMR	TRANSFORMER
MCA	MINIMUM CIRCUIT AMPACITY	XP	EXPLOSION PROOF
MCC	MOTOR CONTROL CENTER	φ	PHASE
MCE	MAIN COMMUNICATIONS EQUIPMENT ROOM	72°	DEGREES
		Δ	DELTA
		Ω	OHMS



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REVISIONS

MARK	DATE

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