

ELECTRICAL LEGEND

LIGHTING

- DOWNLIGHT
- WALL MOUNTED LUMINAIRE, AS NOTED
- CEILING OR WALL MOUNTED LUMINAIRE PORCELAIN KEYLESS
- SURFACE MOUNTED LUMINAIRE
- RECESS MOUNTED LUMINAIRE
- RECESS MOUNTED LUMINAIRE WITH MODULAR WIRING CONNECTOR
- STRIP LUMINAIRE
- TRACK LIGHT, AS NOTED OR SCHEDULED
- DIRECTIONAL ACCENT OR WALL-WASH LUMINAIRE
- EXTERIOR POLE MOUNTED LUMINAIRE, AS SCHEDULED
- BOLLARD
- CEILING OR WALL MOUNTED EXIT SIGN, INSTALL FACES AS INDICATED BY SHADING
- EMERGENCY LIGHT AS NOTED AS NOTED

POWER

- STRAIGHT BLADE DUPLEX RECEPTACLE
- SUBSCRIPTS:
 - HG = HOSPITAL GRADE
 - HGT = HOSPITAL GRADE TAMPER RESISTANT
 - GFI = GROUND FAULT INTERRUPTER
 - SS = SURGE SUPPRESSION
 - AC = 6" ABOVE COUNTER
- STRAIGHT BLADE DOUBLE DUPLEX RECEPT. (FOURPLEX)
- STRAIGHT BLADE SINGLE RECEPTACLE
- STRAIGHT BLADE DUPLEX RECEPT. HALF-SWITCHED
- STRAIGHT BLADE DUPLEX RECEPT. ON EMERGENCY CIRCUIT
- OUTLET WITH SPECIAL DEVICE, AS NOTED
- WALL MOUNTED OUTLET WITH SPECIAL DEVICE, AS NOTED

- FLOOR MOUNTED POWER BOX, AS NOTED
- FLOOR MOUNTED COMBINATION OUTLET BOX, AS NOTED

- POKE THROUGH, AS NOTED
- PEDESTAL OUTLET, AS NOTED
- JUNCTION BOX AS NOTED
- OUTLET BOX
- WALL MOUNTED OUTLET BOX
- ABOVE CEILING POWER DISTRIBUTION BOX

- SURFACE RACEWAY, AS NOTED
- CLOCK HANGER OUTLET
- TELE-POWER POLE
- PULL BOX

- CONNECTION TO MOTOR
- MAGNETIC MOTOR STARTER
- SUBSCRIPTS:
 - MS = MULTISPEED
 - SSRV = SOLID-STATE, REDUCED VOLTAGE
 - VF = VARIABLE FREQUENCY

- SAFETY DISCONNECT SWITCH
- FUSED DISCONNECT SWITCH
- COMBINATION DISCONNECT AND STARTER
- ENCLOSED CIRCUIT BREAKER, MOLDED-CASE, THERMAL-MAGNETIC
- SUBSCRIPTS:
 - AT = ADJUSTABLE TRIP
 - EAT = ELECTRONIC ADJUSTABLE TRIP
 - CL = CURRENT LIMITING
 - IF = INTEGRALLY FUSED
 - GFCI = GROUND FAULT CIRCUIT INTERRUPTER
 - ST = SHUNT TRIP
 - KI = KEY INTERLOCK
 - ZSI = ZONE-SELECTIVE INTERLOCKING

- CONNECTION TO PRE-WIRED EQUIPMENT BREAKER PANEL
- MOTOR CONTROL CENTER
- TRANSIENT VOLTAGE SURGE SUPPRESSOR
- TRANSFORMER
- ENGINE GENERATOR

CIRCUITING

- CONDUIT RUN
- CIRCUIT HOMERUN TO PANEL OR CABINET, NO. OF ARROWS INDICATE NO. OF CIRCUITS
- CIRCUIT TURNED UP
- CIRCUIT TURNED DOWN
- CONDUIT STUB-OUT - CAP & MARK
- CIRCUIT IN FLEXIBLE CONDUIT
- SEALOFF

SWITCHING

- S WALL MOUNTED SWITCH
- SUBSCRIPTS:
 - 2 = DOUBLE POLE
 - 3 = 3-WAY
 - 4 = 4-WAY
 - D = DIMMER
 - K = KEY-OPERATED
 - O = SWITCH MOUNTED OCCUPANCY SENSOR
 - P = PILOT LIGHT
 - T = THERMAL OVERLOAD
 - LV = LOW VOLTAGE
 - DS = DOOR SWITCH

NOTE: ALL SYMBOLS SHOWN ON LEGEND ARE NOT NECESSARILY USED.

SCHEMATIC WIRING GRAPHICS

- METER
- GROUND CONNECTION AS NOTED
- FUSED DISCONNECT SWITCH
- FUSES
- MAGNETIC MOTOR STARTER
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- POWER TRANSFORMER
- CURRENT TRANSFORMER
- AMMETER
- VOLT METER
- TRANSFER SWITCH

- GROUND FAULT PROTECTION

- GENERATOR

- MOTOR, NUMBER INDICATES HORSEPOWER

FIRE ALARM SYSTEM

- FIRE ALARM CONTROL PANEL
- FIRE ALARM GRAPHIC PANEL
- FIRE ALARM ANNUNCIATOR PANEL
- MANUAL PULL STATION
- FIRE ALARM STROBE
- GENERAL ALARM COMBINATION HORN-STROBE
- FIRE ALARM HORN
- CEILING OR WALL MOUNTED DETECTOR
- SUBSCRIPTS:
 - I = IONIZATION
 - T = THERMAL, FIXED AND RATE-OF-RISE
 - TF = THERMAL, FIXED
 - T165° = 165° THERMAL, FIXED AND RATE-OF-RISE
 - TF165° = 165° THERMAL, FIXED
 - P = PHOTOELECTRIC
 - PT = COMBINATION PHOTOELECTRIC AND THERMAL

- SMOKE DETECTOR IN VENTILATING DUCT
- FAN SHUT-DOWN CONNECTION
- MAG. DOOR HOLDER
- SPRINKLER SYSTEM FLOW SWITCH
- SPRINKLER SYSTEM TAMPER SWITCH
- FIREFIGHTERS TELEPHONE JACK
- LIFE SAFETY SPEAKER
- LIFE SAFETY SPEAKER WITH STROBE
- REMOTE PILOT LIGHT
- REMOTE PILOT LIGHT WITH TEST SWITCH

- MONITOR MODULE
- CONTROL MODULE
- DAMPER CONNECTION

COMMUNICATION SYSTEM

- FLOOR MOUNTED TELEPHONE AND/OR DATA OUTLET BOX, AS NOTED
- ▼ WALL MOUNTED TELEPHONE OUTLET
- ▼ WALL MOUNTED DATA OUTLET
- ▼ WALL MOUNTED COMBINATION TELEPHONE/DATA OUTLET BOX

- PAY PHONE
- TELEPHONE TERMINAL BOARD - TTB
- CEILING OR WALL MOUNTED SPEAKER
- VOLUME CONTROL
- FLOOR OR WALL MOUNTED MICROPHONE OUTLET
- CALL-IN SWITCH
- TIME-TONE UNIT
- CEILING OR WALL MOUNTED CLOCK
- PROGRAM BELL
- BUZZER
- HOUSE PHONE/INTERCOM
- MASTER INTERCOM STATION
- TELEVISION OUTLET
- CLOSED CIRCUIT TV OUTLET
- AMPLIFIER

NOTATIONS

- 1 - UPPER CASE LETTER AT LUMINAIRES (F1, I1, ETC.) INDICATES LUMINAIRE TYPE. (F1) = TYPE F1 LUMINAIRES IN AREA INDICATED.
- 2 - LOWER CASE LETTER AT LUMINAIRES AND SWITCHES (a, b, ETC.) INDICATE ASSOCIATED UNITS FOR SWITCHING.
- 3 - SHADING WITHIN LUMINAIRE DENOTES UNIT ON EMERGENCY (EM) CIRCUIT.
- 4 - "NL" WITHIN LUMINAIRES DENOTES UNIT ON NIGHT LIGHT CIRCUIT.
- 5 - PLUS (+) SIGN WITH DIMENSION AT OUTLET INDICATES HEIGHT ABOVE FINISHED FLOOR OR GRADE TO CENTERLINE OF OUTLET.

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ABBREVIATIONS

NOTE: ALL ABBREVIATIONS SHOWN ARE NOT NECESSARILY USED.

- AC - ABOVE COUNTER
- AFC - ABOVE FINISHED CEILING
- AFF - ABOVE FINISHED FLOOR
- AFG - ABOVE FINISHED GRADE
- AIC - AMPS INTERRUPTING CURRENT
- AL - ALUMINUM
- BFG - BELOW FINISHED GRADE
- CB - CIRCUIT BREAKER
- CR - CORROSION RESISTANT
- CPT - CONTROL POWER TRANSFORMER
- CT - CURRENT TRANSFORMER
- CJ - COPPER
- ELR - END OF LINE RESISTOR
- EM - EMERGENCY
- ES - EMERGENCY STOP
- ETM - ELAPSED TIME METER
- EWC - ELECTRIC WATER COOLER
- FLA - FULL LOAD AMPS
- FVNR - FULL VOLTAGE, NON-REVERSING
- FVR - FULL VOLTAGE, REVERSING
- FWE - FURNISHED WITH EQUIPMENT
- GFI - GROUND FAULT INTERRUPTER
- GRC - GALVANIZED RIGID CONDUIT
- HOA - HAND-OFF-AUTOMATIC
- HP - HORSEPOWER
- IG - ISOLATED GROUND
- LC - LIGHTING CONTACTOR
- LOR - LOCAL-OFF-REMOTE
- LS - LEVEL SWITCH
- LT - LET THROUGH
- MCA - MINIMUM CIRCUIT AMPS
- MCB - MAIN CIRCUIT BREAKER
- MCC - MOTOR CONTROL CENTER
- MCCB - MOLDED CASE CIRCUIT BREAKER
- MCP - MOTOR CIRCUIT PROTECTION
- MLO - MAIN LUGS ONLY
- NC - NORMALLY CLOSED
- NIC - NOT IN CONTRACT
- NL - NIGHT LIGHT
- NO - NORMALLY OPEN
- NTS - NOT TO SCALE
- OC - OVER CURRENT
- OL - OVERLOAD
- PT - POTENTIAL TRANSFORMER
- RVNR - REDUCED VOLTAGE, NON-REVERSING
- SC - SHORT CIRCUIT
- SR - SAFE OR STOP/RUN
- TTB - TELEPHONE TERMINAL BOARD
- UG - UNDERGROUND
- VFD - VARIABLE FREQUENCY DRIVE
- WG - WIREGUARD
- WP - WEATHERPROOF
- XFMR - TRANSFORMER
- XP - EXPLOSION PROOF
- ZS - LIMIT OR POSITION SWITCH

THESE DRAWINGS ARE DIAGRAMMATIC - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS. BRANCH CIRCUITING CONVENTION - #12 AWG PER PHASE AND NEUTRAL (WHERE REQUIRED) AND 20 AMPERE CIRCUIT BREAKER, UNLESS OTHERWISE NOTED. PROVIDE QUANTITY AND SIZE SWITCH CONDUCTORS AS REQUIRED TO MAKE SYSTEM OPERATIONAL.

GENERAL NOTES (FOR ALL ELECTRICAL SHEETS)

- COORDINATE LOCATION OF LUMINAIRES WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- PLANS DO NOT INDICATE ALL OF THE UG UTILITY LINES, RE: CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. CONTRACTOR TO FIELD VERIFY EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITY LINES OF ALL TRADES PRIOR TO ANY SITE WORK.
- PROVIDE (1) 3/4" C. WITH PULL WIRE FROM EACH TELEPHONE, DATA OR COMMUNICATION OUTLET SHOWN, TO ABOVE ACCESSIBLE CEILING, AND CAP. IF AREA ABOVE CEILING IS NOT ACCESSIBLE, CONTINUE CONDUIT AND PULL WIRE TO EITHER AN ACCESSIBLE LOCATION OR BACK TO POINT OF TELCO / DATA DEMARC.
- COORDINATE EXACT EQUIPMENT LOCATIONS WITH OWNER PRIOR TO ROUGH-INS.
- COORDINATE LOCATION OF MECHANICAL EQUIPMENT WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- ANY ITEMS DAMAGED BY THE CONTRACTOR SHALL BE REPLACED BY THE CONTRACTOR.
- ALL 120V BRANCH CIRCUITS SHALL BE 3-WIRE (PHASE, NEUTRAL, GROUND).
- CONTRACTOR SHALL NOT ROUTE ANY CONDUIT WITHIN STRUCTURAL OR TOPPING SLABS OF FLOORS UNLESS NOTED TO DO SO.
- REFER TO ARCHITECTURAL PLANS, ELEVATIONS AND DIAGRAMS FOR LOCATIONS OF FLOOR DEVICES AND WALL DEVICES. LOCATION WILL INDICATE VERTICAL AND/OR HORIZONTAL MOUNTING. IF DEVICES ARE NOT NOTED OTHERWISE THEY SHALL BE MOUNTED LONG AXIS VERTICAL AT +16" TO CENTER.
- IF AREA ABOVE ACCESSIBLE CEILINGS ARE USED AS HVAC FREE RETURN PLENUM. ALL MATERIALS EXPOSED ABOVE CEILINGS (WITHIN PLENUM) SHALL EITHER BE NON-COMBUSTIBLE -or- SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 AS DETERMINED IN ACCORDANCE WITH ASTM E 84 (EXCEPT FOR TESTED AND LABELED WIRING, FIRE SPRINKLER PIPING, PNEUMATIC TUBING, AND ELECTRICAL EQUIPMENT).
- ELECTRICAL OUTLET OR SWITCH BOXES ARE NOT TO BE PERMITTED ADJACENT TO EACH OTHER IN RATED FIREWALL CONSTRUCTION. THE BOXES MUST BE SPACED A MINIMUM OF 2'-0" Laterally APART OR PROVIDED WITH FIRE PUTTY PADS EQUIVALENT TO THE FIREWALL RATING. SEE ARCHITECTURAL PLANS FOR LOCATIONS AND RATINGS OF FIRE WALLS.
- INFORMATION ON THE DRAWINGS HAS BEEN ASCERTAINED FROM CASUAL FIELD OBSERVATIONS. THIS INFORMATION IS AS ACCURATE AS CONDITIONS WOULD ALLOW. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE, PRIOR TO BID, AND FAMILIARIZE HIMSELF WITH THE EXTENT OF REMODEL WORK REQUIRED. NO EXTRAS WILL BE ALLOWED FOR ALTERATIONS OF A FORESEEABLE NATURE REQUIRED TO ACHIEVE THE END RESULT AS INDICATED BY CONTRACT DOCUMENTS.
- ALL ITEMS SHOWN LIGHT LINE WEIGHT ARE EXISTING TO REMAIN, UNLESS NOTED OTHERWISE. ALL ITEMS SHOWN HEAVY LINE WEIGHT ARE NEW, OR RELOCATED AS NOTED.
- IF EXISTING CONDUITS ARE ROUTED IN CONCRETE FLOOR SLABS, CONCRETE WALLS OR CONCRETE CEILINGS, THEY SHALL BE CUT BACK TO WITHIN CONCRETE AND FILLED WITH GROUT TO ACHIEVE A SMOOTH AND EVEN FINISH FLUSH WITH
- ALL NEW WIRING REQUIRED IN REMODELED AREAS SHALL BE FISHED THROUGH EXISTING WALLS OR CONCEALED IN NEW WALLS OR ABOVE CEILINGS. SURFACE MOUNTED CONDUIT SHALL NOT BE USED IN ANY FINISHED AREAS.
- PROVIDE UPDATED PANEL DIRECTORIES FOR ALL EXISTING PANELS BEING AFFECTED BY REMODEL WORK. PROVIDE NEW CIRCUIT BREAKER NUMBER IDENTIFICATION AS REQUIRED.
- MAINTAIN CIRCUIT CONTINUITY FOR ALL EXISTING ITEMS THAT ARE REMAINING OR BEING RELOCATED.

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DRAWING TITLE
**ELECTRICAL
SYMBOLS LEGEND
AND GENERAL
NOTES**

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