# ELECTRICAL SYMBOLS AND ABBREVIATIONS

NOTES: 1. SYMBOLS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL SYMBOLS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.
2. DEMOLITION WORK IS SHOWN WITH DASHED LINES.
3. EXISTING TO REMAIN IS SHOWN WITH SOLID LIGHT LINES.
4. NEW WORK IS SHOWN WITH SOLID HEAVY LINES.

## LIGHTING

TYPE
CIRCUIT/SWITCH

| TYPE | DESCRIPTION | TYPE | DESCRIPTION |
|---|---|---|---|
| A | LINE VOLTAGE INCANDESCCENT/HALOGEN | G | ELECTRODELESS INDUCTION FLUORESCENT |
| B | LOW VOLTAGE INCANDESCENT/HALOGEN | H | STANDARD HID |
| C | COMPACT FLUORESCENT | L | LIGHT PIPE/GUIDE/TUBE, FIBER OPTICS |
| D | DOUBLE ENDED/PIN, SINGLE ENDED COMPACT HID | N | NEON/COLD CATHODE |
| F | STANDARD LINEAR FLUORESCENT | S | SPECIAL PURPOSE |
| | | T | TRACK |
| | | X | EXIT LIGHT |

| SUFFIX | DESCRIPTION |
|---|---|
| E | BATTERY PACK/INVERTER |

- SURFACE MOUNTED LINEAR FLUORESCENT MOUNTING LOCATION: CEILING
- SURFACE MOUNTED LINEAR FLUORESCENT MOUNTING LOCATION: WALL
- PENDANT/SUSPENDED LINEAR FLUORESCENT
- PENDANT/SUSPENDED FLUORESCENT
- RECESSED GRID MOUNTED FLUORESCENT MOUNTING LOCATION: CEILING
- RECESSED FLANGE MOUNTED FLUORESCENT MOUNTING LOCATION: CEILING
- SURFACE MOUNTED FLUORESCENT MOUNTING LOCATION: CEILING
- SURFACE MOUNTED EMERGENCY LINEAR FLUORESCENT MOUNTING LOCATION: CEILING
- SURFACE MOUNTED EMERGENCY LINEAR FLUORESCENT MOUNTING LOCATION: WALL
- PENDANT/SUSPENDED EMERGENCY LINEAR FLUORESCENT
- PENDANT/SUSPENDED EMERGENCY FLUORESCENT
- RECESSED GRID MOUNTED EMERGENCY FLUORESCENT. MOUNTING LOCATION: CEILING
- RECESSED FLANGE MOUNTED EMERGENCY FLUORESCENT. MOUNTING LOCATION: CEILING
- SURFACE MOUNTED EMERGENCY FLUORESCENT. MOUNTING LOCATION: CEILING
- SURFACE MOUNTED CRITICAL LINEAR FLUORESCENT MOUNTING LOCATION: CEILING
- SURFACE MOUNTED CRITICAL LINEAR FLUORESCENT MOUNTING LOCATION: WALL
- PENDANT/SUSPENDED CRITICAL LINEAR FLUORESCENT
- PENDANT/SUSPENDED CRITICAL FLUORESCENT
- RECESSED GRID MOUNTED CRITICAL LED. MOUNTING LOCATION: CEILING
- RECESSED FLANGE MOUNTED CRITICAL FLUORESCENT. MOUNTING LOCATION: CEILING
- SURFACE MOUNTED CRITICAL FLUORESCENT. MOUNTING LOCATION: CEILING
- SINGLE HEAD EMERGENCY FIXTURE WITH BATTERY PACK
- DOUBLE HEAD EMERGENCY FIXTURE WITH BATTERY PACK
- RECESSED MOUNTED INCANDESCENT/COMPACT FLUORESCENT/HID MOUNTING LOCATION: CEILING
- SURFACE MOUNTED INCANDESCENT/COMPACT FLUORESCENT/HID MOUNTING LOCATION: CEILING
- RECESSED MOUNTED INCANDESCENT/COMPACT FLUORESCENT/HID MOUNTING LOCATION: WALL
- SURFACE MOUNTED INCANDESCENT/COMPACT FLUORESCENT/HID MOUNTING LOCATION: WALL
- PENDANT/SUSPENDED INCANDESCENT/COMPACT FLUORESCENT/HID
- RECESSED MOUNTED EMERGENCY INCADESCENT/COMPACT FLUORESCENT/HID MOUNTING LOCATION: CEILING
- SURFACE MOUNTED EMERGENCY INCANDESCENT/COMPACT FLUORESCENT/HID MOUNTING LOCATION: CEILING
- RECESSED MOUNTED EMERGENCY INCANDESCENT/COMPACT FLUORESCENT/HID MOUNTING LOCATION: WALL
- SURFACE MOUNTED EMERGENCY INCANDESCENT/COMPACT FLUORESCENT/HID MOUNTING LOCATION: WALL
- PENDANT/SUSPENDED EMERGENCY INCANDESCENT/COMPACT FLUORESCENT/HID
- RECESSED MOUNTED CRITICAL INCADESCENT/COMPACT FLUORESCENT/HID MOUNTING LOCATION: CEILING
- SURFACE MOUNTED CRITICAL INCANDESCENT/COMPACT FLUORESCENT/HID MOUNTING LOCATION: CEILING
- RECESSED MOUNTED CRITICAL INCANDESCENT/COMPACT FLUORESCENT/HID MOUNTING LOCATION: WALL
- SURFACE MOUNTED CRITICAL INCANDESCENT/COMPACT FLUORESCENT/HID MOUNTING LOCATION: WALL
- PENDANT/SUSPENDED CRITICAL INCANDESCENT/COMPACT FLUORESCENT/HID
- DIRECTIONAL INDICATOR ADDED TO FIXTURE SYMBOL TO DESIGNATE AIMING DIRECTION
- EXIT DIRECTIONAL ARROW
- SINGLE FACE EXIT FIXTURE MOUNTING LOCATION: CEILING
- DOUBLE FACE EXIT FIXTURE MOUNTING LOCATION: CEILING
- SINGLE FACE EXIT FIXTURE MOUNTING LOCATION: WALL
- DOUBLE FACE EXIT FIXTURE MOUNTING LOCATION: WALL
- PILOT LIGHT MOUNTING LOCATION: AS NOTED
- TRACK MOUNTING LOCATION: AS NOTED

## SWITCHES

- $_a SINGLE POLE SWITCH MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6" a = SWITCH DESIGNATION
- $_3 THREE WAY SWITCH MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"
- $_4 FOUR WAY SWITCH MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"
- $_2 TWO POLE SWITCH MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"
- $_K KEY SWITCH MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"
- $_M MOTOR RATED SWITCH MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"
- $_MC MOMENTARY CONTACT SWITCH MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"
- $_D DOOR SWITCH MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"
- $_P SWITCH WITH PILOT LIGHT MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"
- $_LV-M LOW VOLTAGE "M"-MASTER SWITCH MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"
- $_DM REMOTE CONTROL FOR MOTORIZED DAMPER MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"
- LIGHTING CONTACTOR MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED
- D DIMMER MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"
- TS TIME SWITCH MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"
- PC PHOTO CELL MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED
- AL AMBIENT LIGHT SENSOR MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED
- AMBIENT LIGHT SENSOR MOUNTING LOCATION: CEILING
- PIR OCCUPANCY SENSOR FOR LIGHTING CONTROL PIR = PASSIVE INFRARED 2P = 2 POLE, DUAL RELAY U = ULTRASONIC DT = DUAL TECHNOLOGY PIRA = PIR WITH AMBIENT LIGHT SENSOR MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"
- PIR OCCUPANCY SENSOR FOR LIGHTING CONTROL MOUNTING LOCATION:CEILING
- FLOOR SWITCH MOUNTING LOCATIONFLOOR

## EQUIPMENT AND WIRING

- MOTOR
- TRANSFORMER - ONE LINE DIAGRAM
- ISOLATION TRANSFORMER - ONE LINE DIAGRAM
- GROUND CONNECTIO N
- T TRANSFORMER
- PANELBOARD - NORMAL SURFACE MOUNTED
- PANELBOARD - NORMAL FLUSH MOUNTED
- PANELBOARD - EMERGENCY/LIFE SAFETY SURFACE MOUNTED
- PANELBOARD - EMERGENCY/LIFE SAFETY FLUSH MOUNTED
- PANELBOARD - CRITICAL SURFACE MOUNTED
- PANELBOARD - CRITICAL FLUSH MOUNTED
- LOW VOLTAGE LIGHTING CONTROL PANEL - SURFACE MOUNTED
- LOW VOLTAGE LIGHTING CONTROL PANEL - FLUSH MOUNTED
- NTS DISTRIBUTION PANELBOARD
- MCC MOTOR CONTROL CENTER
- CABLE TAP BOX
- BUSWAY PLUG-IN UNIT
- CURRENT TRANSFORMER
- POTENTIAL TRANSFORMER
- REVERSE POWER RELAY
- NON FUSED DISCONNECT SWITCH
- F FUSED DISCONNECT SWITCH
- B BREAKER DISCONNECT SWITCH
- MAGNETIC MOTOR STARTER
- COMBINATION MOTOR STARTER
- $_M MANUAL STARTER W/OVERLOAD PROTECTION
- J SURFACE JUNCTION BOX
- J SURFACE JUNCTION BOX - WALL
- J FLUSH JUNCTION BOX - CEILING
- J FLUSH JUNCTION BOX - WALL
- J FLUSH JUNCTION BOX - FLOOR
- AUTOMATIC TRANSFER SWITCH
- V VS VOLTMETER & SELECTOR SWITCH
- A AS AMMETER, SELECTOR SWITCH, & CT'S
- EGS ENGINE GENERATOR SET
- GEN REMOTE GENERATOR ANNUNCIATOR
- GI REMOTE GROUND INDICATOR
- GP ROOM REFERENCE GROUND POINT
- GROUND CONNECTION - PLUG-IN
- T LINE VOLTAGE THERMOSTAT
- M REVENUE METER, kWh/D
- M METER WITH CURRENT TRANSFORMER
- MOLDED CASE CIRCUIT BREAKER
- LOW VOLTAGE DRAW-OUT AIR CIRCUIT BREAKER
- SWITCH - ONE LINE DIAGRAM
- GROUNDED "Y" SYSTEM
- H ELECTRIC HEATER
- R RELAY - TYPE AS NOTED
- TR TIMING RELAY
- AIR TERMINAL
- PUSH BUTTON
- K KIRK KEY INTERLOCK
- PM PHYSIOLOGICAL MONITOR OUTLET
- PANEL DIVISION ARROW
- PANEL DIVISION LINE
- WIRING CONCEALED IN FLOOR
- WIRING IN CEILING/WALLS
- HOMERUN
  - PNL. A1 INDICATES PANEL AND CIRCUIT
  - INDICATES NUMBER OF CONDUCTORS
  - INDICATES NEUTRAL CONDUCTOR
  - INDICATES GROUND CONDUCTOR

A-1,3,5 - PANEL AND CIRCUITS; PANEL A, CIRCUITS 1,3,5

## FIRE

- F FIRE ALARM PULL STATION MOUNTING LOCATION: WALL MOUNTING HEIGHT: 4'-0"
- F B FIRE ALARM BELL MOUNTING LOCATION: WALL MOUNTING HEIGHT: SEE NOTE 1
- F B FIRE ALARM COMBINATION BELL/STROBE MOUNTING LOCATION: WALL MOUNTING HEIGHT: SEE NOTE 1
- F H FIRE ALARM HORN MOUNTING LOCATION: WALL MOUNTING HEIGHT: SEE NOTE 1
- F H FIRE ALARM COMBINATION HORN/STROBE MOUNTING LOCATION: WALL MOUNTING HEIGHT: SEE NOTE 1
- F C FIRE ALARM CHIME MOUNTING LOCATION: WALL MOUNTING HEIGHT: SEE NOTE 1
- FIRE ALARM COMBINATION CHIME/STROBE MOUNTING LOCATION: WALL MOUNTING HEIGHT: SEE NOTE 1
- F FIRE ALARM STROBE ONLY MOUNTING LOCATION: WALL MOUNTING HEIGHT: SEE NOTE 1
- F S FIRE ALARM SMOKE DETECTOR MOUNTING LOCATION: CEILING
- F SD FIRE ALARM DUCT SMOKE DETECTOR MOUNTING LOCATION: DUCT
- F CM FIRE ALARM CONTROL MODULE
- F PS FIRE ALARM PRESSURE SWITCH MOUNTING LOCATION: FIELD VERIFY
- F H FIRE ALARM HEAT DETECTOR MOUNTING LOCATION: CEILING
- F D FIRE ALARM DOOR HOLDER MOUNTING LOCATION: WALL MOUNTING HEIGHT: FIELD VERIFY
- F DS FIRE ALARM DOOR HOLDER WITH SMOKE DETECTOR MOUNTING LOCATION: WALL MOUNTING HEIGHT: FIELD VERIFY
- F WF FIRE ALARM WATERFLOW SWITCH MOUNTING LOCATION: SPRINKLER PIPE MOUNTING HEIGHT: FIELD VERIFY
- F TS FIRE ALARM TAMPER SWITCH MOUNTING LOCATION: SPRINKLER PIPE MOUNTING HEIGHT: FIELD VERIFY
- F CP FIRE ALARM CONTROL PANEL MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED
- F AP FIRE ALARM ANNUNCIATOR PANEL MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED
- F RIS REMOTE INDICATOR TEST SWITCH FOR AHU'S MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED
- F V FIRE ALARM COMBINATION VOICE/STROBE MOUNTING LOCATION: WALL MOUNTING HEIGHT: SEE NOTE 1

NOTES:
1. 80" AFF TO BOTTOM OF FACEPLATE OR 6" FROM TOP OF FACEPLATE TO CEILING, WHICH EVER IS LOWER

## RECEPTACLES

- DUPLEX RECEPTACLE MOUNTING LOCATION: WALL MOUNTING HEIGHT: 1'-6"
- EMERGENCY DUPLEX RECEPTACLE MOUNTING LOCATION: WALL MOUNTING HEIGHT: 1'-6"
- SINGLE RECEPTACLE MOUNTING LOCATION: WALL MOUNTING HEIGHT: 1'-6"
- DOUBLE DUPLEX RECEPTACLE MOUNTING LOCATION: WALL MOUNTING HEIGHT: 1'-6"
- EMERGENCY DOUBLE DUPLEX RECEPTACLE MOUNTING LOCATION: WALL MOUNTING HEIGHT: 1'-6"
- DUPLEX RECEPTACLE - ABOVE CASEWORK OR 2" ABOVE COUNTERTOP BACKSPLASH MOUNTING LOCATION: WALL MOUNTING HEIGHT: FIELD VERIFY
- EMERGENCY DUPLEX RECEPTACLE - ABOVE CASEWORK OR 2" ABOVE COUNTERTOP BACKSPLASH MOUNTING LOCATION: WALL MOUNTING HEIGHT: FIELD VERIFY
- POWER OUTLET MOUNTING LOCATION: WALL MOUNTING HEIGHT: 1'-6"
- POWER OUTLET, EMERGENCY CIRCUIT MOUNTING LOCATION: WALL MOUNTING HEIGHT: 1'-6"
- FIXED EQUIPMENT CONNECTION - WALL MOUNTING LOCATION: WALL MOUNTING HEIGHT: 1'-6"
- FIXED EQUIPMENT CONNECTION - WALL EMERGENCY CIRCUIT MOUNTING LOCATION: WALL MOUNTING HEIGHT: 1'-6"
- LOCKING RECEPTACLE MOUNTING LOCATION: WALL MOUNTING HEIGHT: 1'-6"
- SWITCH/ RECEPTACLE MOUNTING LOCATION: WALL MOUNTING HEIGHT: 3'-6"
- DUPLEX RECEPTACLE LOCATED IN SURFACE MOUNTED RACEWAY
- EMERGENCY DUPLEX RECEPTACLE LOCATED IN SURFACE MOUNTED RACEWAY
- POWER OUTLET IN SURFACE MOUNTED RACEWAY VOLTAGE AND AMPERAGE AS INDICATED
- EMERGENCY POWER OUTLET IN SURFACE MOUNTED RACEWAY VOLTAGE AND AMPERAGE AS INDICATED
- DUPLEX RECEPTACLE, UPPER HALF SWITCHED, LOWER HALF HOT MOUNTING LOCATION: WALL MOUNTING HEIGHT: 1'-6"
- DOUBLE DUPLEX RECEPTACLE - ABOVE CASEWORK OR 2" ABOVE COUNTERTOP BACKSPLASH MOUNTING LOCATION: WALL MOUNTING HEIGHT: FIELD VERIFY
- EMERGENCY DOUBLE DUPLEX RECEPTACLE - ABOVE CASEWORK OR 2" ABOVE COUNTERTOP BACKSPLASH MOUNTING LOCATION: WALL MOUNTING HEIGHT: FIELD VERIFY
- DUPLEX RECEPTACLE - CEILING MOUNTED MOUNTING LOCATION: CEILING
- EMERGENCY DUPLEX RECEPTACLE - CEILING MOUNTED MOUNTING LOCATION: CEILING
- DOUBLE DUPLEX RECEPTACLE - CEILING MOUNTED MOUNTING LOCATION: CEILING
- EMERGENCY DOUBLE DUPLEX RECEPTACLE - CEILING MOUNTED MOUNTING LOCATION: CEILING
- DUPLEX RECEPTACLE - FLOOR MOUNTED MOUNTING LOCATION: FLOOR
- FIXED EQUIPMENT CONNECTION MOUNTING LOCATION: COORDINATE W/ EQUIPMENT
- EMERGENCY FIXED EQUIPMENT CONNECTION MOUNTING LOCATION: COORDINATE W/ EQUIPMENT
- CLOCK RECEPTACLE MOUNTING LOCATION: WALL MOUNTING HEIGHT: [illegible]
- OUTLETS INSTALLED IN SURFACE MOUNTED RACEWAY
- SURFACE MOUNTED RACEWAY # = #" OUTLET SPACING

## COMMUNICATION

- W WALL TELEPHONE OUTLET CONFIGURATION: 1 VOICE MOUNTING LOCATION: FLUSH WALL MOUNTING HEIGHT: 1'-0" AFF
- W WALL TELEPHONE OUTLET CONFIGURATION: 1 VOICE MOUNTING LOCATION: SURFACE WALL MOUNTING HEIGHT: 4'-0" AFF
- # WORKSTATION OUTLETS CONFIGURATION: AS INDICATED BY NO. MOUNTING LOCATION: FLUSH WALL MOUNTING HEIGHT: 1'-6" AFF
- WORKSTATION OUTLETS CONFIGURATION: AS INDICATED BY NO. MOUNTING LOCATION: SURFACE WALL MOUNTING HEIGHT: 1'-6" AFF
- F # WORKSTATION OUTLETS - FLOOR MOUNTED CONFIGURATION: AS INDICATED BY NO. MOUNTING LOCATION: FLUSH FLOOR MOUNTING HEIGHT: F/FF
- C # WORKSTATION OUTLETS - CEILING MOUNTED CONFIGURATION: AS INDICATED BY NO. MOUNTING LOCATION: FLUSH CEILING MOUNTING HEIGHT: F/FC
- C # WORKSTATION OUTLETS - CEILING MOUNTED CONFIGURATION: AS INDICATED BY NO. MOUNTING LOCATION: SURFACE CEILING / STRUCTURE MOUNTING HEIGHT: FIELD VERIFY
- # WORKSTATION OUTLETS CONFIGURATION: AS INDICATED BY NO. MOUNTING LOCATION: CASEWORK OR ABOVE BACKSPLASH - FLUSH MOUNTING HEIGHT: FIELD VERIFY
- # WORKSTATION OUTLETS CONFIGURATION: AS INDICATED BY NO. MOUNTING LOCATION: CASEWORK OR ABOVE BACKSPLASH - SURFACE MOUNTING HEIGHT: FIELD VERIFY
- # WORKSTATION OUTLETS CONFIGURATION: AS INDICATED BY NO. MOUNTING LOCATION: RACEWAY MOUNTING HEIGHT: AS INDICATED BY RACEWAY MOUNTING
- AP # WIRELESS ACCESS POINT CONFIGURATION: AS INDICATED BY NO. MOUNTING LOCATION: FLUSH CEILING MOUNTING HEIGHT: F/FC
- AP # WIRELESS ACCESS POINT CONFIGURATION: AS INDICATED BY NO. MOUNTING LOCATION: SURFACE WALL MOUNTING HEIGHT: AS NOTED ON DRAWINGS
- TV TV OUTLET CONFIGURATION: 1 COAX MOUNTING LOCATION: WALL MOUNTING HEIGHT: 7'-0" AFF
- SP # SPEAKER MOUNTING LOCATION: CEILING MOUNTING HEIGHT: F/FC #= PAGING ZONE
- SP # SPEAKER PANEL MOUNTING LOCATION: CEILING MOUNTING HEIGHT: F/FC #= PAGING ZONE
- H SPEAKER (BI-DIRECTIONAL HORN-TYPE) MOUNTING LOCATION: WALL MOUNTING HEIGHT: 12" BELOW FINISHED CEILING
- H SPEAKER (HORN-TYPE) MOUNTING LOCATION: WALL MOUNTING HEIGHT: 12" BELOW FINISHED CEILING
- V VOLUME CONTROL MOUNTING LOCATION: WALL MOUNTING HEIGHT: 36" AFF
- I INTERCOM STATION MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED
- I M INTERCOM STATION MASTER MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED
- I INTERCOM STATION MOUNTING LOCATION: CEILING MOUNTING HEIGHT: F/FC
- 4:00 DIGITAL CLOCK SURFACE MOUNT MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED
- 4:00 D DIGITAL CLOCK MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED D= DOUBLE FACED
- C CLOCK/SPEAKER MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED
- C c CLOCK/SPEAKER W/ CALL IN MOUNTING LOCATION: WALL MOUNTING HEIGHT OF CALL IN: 4'-0"
- CLOCK & OUTLET MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED
- D CLOCK & OUTLET, DOUBLE MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED
- T CLOCK, INTERVAL TIMER MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED
- M MASTER CLOCK MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED
- C CLOCK, OUTLET ONLY MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED
- R CLOCK RESET BUTTON MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED
- A ATTENDANCE RECORDER MOUNTING LOCATION: WALL MOUNTING HEIGHT: AS NOTED

## ELECTRICAL ABBREVIATIONS

| | | | |
|---|---|---|---|
| A | AMPERES | KO | KNOCK-OUT |
| AC | ABOVE CEILING/ALTERNATING CURRENT | KV | KILOVOLT |
| ADO | AUTOMATIC DOOR OPENER | KVA | KILOVOLT-AMPERES |
| AF | AMPERE FRAME | KW | KILOWATTS |
| AFF | ABOVE FINISHED FLOOR | KWH | KILOWATT HOURS |
| AIC | AMP INTERRUPTING CAPACITY | LAN | LOCAL AREA NETWORK |
| ALT | ALTERNATE | LGT | LIGHT |
| ARCH | ARCHITECTURAL | LTCP | LOCAL TEMPERATURE CONTROL PANEL |
| ASC | ABOVE SUSPENDED CEILING | LTG | LIGHTING |
| AT | AMPERE TRIP | LTS | LIGHTS |
| ATS | AUTOMATIC TRANSFER SWITCH | LV | LOW VOLTAGE |
| AUTO | AUTOMATIC | MATV | MASTER ANTENNA TELEVISION |
| BATS | BYPASS AUTOMATIC TRANSFER SWITCH | MC | MECHANICAL CONTRACTOR |
| BC | BARE COPPER | MCB | MAIN CIRCUIT BREAKER |
| BFC | BELOW FINISH CEILING | MCC | MOTOR CONTROL CENTER |
| BFL | BELOW FLOOR LEVEL | MCP | MOTOR CIRCUIT PROTECTOR |
| BLDG | BUILDING | MDP | MAIN DISTRIBUTION PANEL |
| BPIP | BOILER PLANT INSTRUMENTATION PANEL | MER | MECHANICAL EQUIPMENT ROOM |
| BRKR | BREAKER | MLO | MAIN LUGS ONLY |
| C | CONDUIT | MH | MANHOLE |
| CB | CIRCUIT BREAKER | MPTB | MUSIC & PAGE TERMINAL BOX |
| CCTV | CLOSED CIRCUIT TELEVISION | MTD | MOUNTED |
| CCT | CIRCUIT | MTG | MOUNTING |
| CCT BKR | CIRCUIT BREAKER | MTG HGT | MOUNTING HEIGHT |
| CFCI | CONTRACTOR FURNISHED, CONTRACTOR INSTALLED | MTR | MOTOR/METER |
| CLG | CEILING | NA | NOT APPLICABLE |
| CO | CONDUIT ONLY | NC | NEW CONNECTION/NORMALLY CLOSED |
| CONTR | CONTRACTOR | NEC | NATIONAL ELECTRICAL CODE |
| CORR | CORRIDOR | NFD | NON-FUSED DISCONNECT |
| CR | CONTROL RELAY | NFSS | NON-FUSED SAFETY SWITCH |
| CT | CURRENT TRANSFORMER | NIC | NOT IN CONTRACT |
| DB | DIRECT BURIAL | NO | NORMALLY OPEN |
| DC | DIRECT CURRENT | NTS | NOT TO SCALE |
| DED | DEDICATED | OC | ON CENTER |
| DET | DETAIL | OFCI | OWNER FURNISHED CONTRACTOR INSTALLED |
| DIA | DIAMETER | OFOI | OWNER FURNISHED, OWNER INSTALLED |
| DISC | DISCONNECT | P | POLE |
| DN | DOWN | PA | PUBLIC ADDRESS |
| DP | DISTRIBUTION PANEL | PB | PULL BOX/PUSHBUTTON |
| DS | DISCONNECT SWITCH | PBPU | PREFABRICATED BEDSIDE PATIENT POWER UNIT |
| EC | EMPTY CONDUIT/ELECTRICAL CONTRACTOR | PC | PLUMBING CONTRACTOR/PHOTOCELL |
| ECL | EMERGENCY CRITICAL LIGHTING | PDU | POWER DISTRIBUTION UNIT |
| ECP | EMERGENCY CRITICAL POWER | PF | POWER FACTOR |
| EDB | ELECTRIC DUCT BANK | PH | PHASE |
| EG | EQUIPMENT GROUND | PLBG | PLUMBING |
| EGS | ENGINE GENERATOR SET | PNL | PANEL |
| EJ | EXPANSION JOINT | POD | POWER OPERATED DAMPER |
| ELEC | ELECTRIC/ELECTRICAL | PT | POTENTIAL TRANSFORMER |
| ELL | EMERGENCY LIFE SAFETY LIGHTING | PTRV | POWER TYPE ROOF VENTILATOR |
| ELP | EMERGENCY LIFE SAFETY POWER | PWR | POWER |
| EMER | EMERGENCY | REC | RECESSED |
| EMI | ELECTROMAGNETIC INTERFERENCE | RECEP | RECEPTACLE |
| EMT | ELECTRICAL METALLIC TUBING | REL | RELOCATE |
| EQUIP | EQUIPMENT | REQD | REQUIRED |
| ESM | ELECTRIC STRIP MOLD | RGIP | REMOTE GROUND INDICATOR PANEL |
| ETR | EXISTING TO REMAIN | RMC | RIGID METAL CONDUIT |
| EWC | ELECTRIC WATER COOLER | RVAT | REDUCED VOLTAGE AUTO TRANSFORMER |
| F/FC | FLUSH WITH FINISHED CEILING | SHT | SHEET |
| F/FF | FLUSH WITH FINISHED FLOOR | SIG | SIGNAL |
| F/FW | FLUSH WITH FINISHED WALL | SIM | SIMILAR |
| FA | FIRE ALARM | SPEC | SPECIFICATION |
| FACP | FIRE ALARM CONTROL PANEL | SS | SAFETY SWITCH |
| FCU | FAN COIL UNIT | STA | STATION |
| FDR | FEEDER | STR | STARTER |
| FDS | FUSED DISCONNECT SWITCH | SW | SWITCH |
| FI | FILM ILLUMINATOR | SWBD | SWITCHBOARD |
| FIXT | FIXTURE | SWGR | SWITCHGEAR |
| FL | AT FLOOR LINE | TEL | TELEPHONE |
| FLA | FULL LOAD AMPERES | TFA | TO FLOOR ABOVE |
| FLEX | FLEXIBLE | TFB | TO FLOOR BELOW |
| FLR | FLOOR | TS | TAMPER SWITCH/TIME SWITCH |
| FLUOR | FLUORESCENT | TV | TELEVISION |
| FS | FLOW SWITCH | TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSION |
| FSS | FUSED SAFETY SWITCH | TVTC | TELEVISION TERMINAL CABINET |
| FSCP | FLAME SAFEGUARD CONTROL PANEL | TYP | TYPICAL |
| FVNR | FULL VOLTAGE NON-REVERSING | UC | UNDER COUNTER |
| GC | GENERAL CONTRACTOR | UG | UNDERGROUND |
| GFCI | GROUND FAULT CIRCUIT INTERRUPTER | UH | UNIT HEATER |
| GFP | GROUND FAULT PROTECTION | UNO | UNLESS NOTED OTHERWISE |
| GND | GROUND | UPS | UNINTERRUPTED POWER SUPPLY |
| GEN | GENERATOR | V | VOLTAGE |
| GFI | GROUND FAULT INTERRUPTER | VFD | VARIABLE FREQUENCY DRIVE |
| GTB | GROUND TERMINAL BOX | VP | VAPOR PROOF |
| HH | HANDHOLE | W | WIRE |
| HOA | HAND OFF AUTOMATIC | W/ | WITH |
| HP | HORSE POWER | WP | WEATHERPROOF |
| HT | HEIGHT/HEAT TRACE | WS | WALL SURFACE |
| HV | HIGH VOLTAGE | WT | WATER TIGHT |
| IMC | INTERMEDIATE METAL CONDUIT | X | EXISTING |
| INCAND | INCANDESCENT | XFMR | TRANSFORMER |
| JB | JUNCTION BOX | XP | EXPLOSION PROOF |

## SHEET SYMBOLS

- # NOTE DESIGNATION
- 1 / X0.0 DETAIL REFERENCE TOP DESIGNATES DETAIL NUMBER BOTTOM DESIGNATES ON WHICH SHEET DETAIL APPEARS
- REFER / X0.0 PLAN CONTINUATION DESIGNATION
- 1 / X0.0 SECTION REFERENCE TOP DESIGNATES SECTION NUMBER BOTTOM DESIGNATES ON WHICH SHEET SECTION APPEARS
- LINE CONTINUE BREAK
- ELEVATION DESIGNATION
- # REVISION NUMBER DESIGNATION
- NEW WORK CONNECTION TO EXISTING WORK DESIGNATION
- EQ / # EQUIPMENT DESIGNATION TOP DESIGNATES EQUIPMENT ABBREVIATION BOTTOM DESIGNATES EQUIPMENT NUMBER

## UNIT CONVERSIONS

### CONDUIT CONVERSION

| | | | |
|---|---|---|---|
| 1/2" | = 16mm | 2-1/2" | = 63mm |
| 3/4" | = 21mm | 3" | = 78mm |
| 1" | = 27mm | 3-1/2" | = 91mm |
| 1-1/4" | = 35mm | 4" | = 103mm |
| 1-1/2" | = 41mm | 5" | = 129mm |
| 2" | = 53mm | 6" | = 155mm |

Revisions: | Date:

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Office of Construction and Facilities Management
VA U.S. Department of Veterans Affairs

Drawing Title: ELECTRICAL SYMBOLS AND ABBREVIATIONS
Approved:
Phase: CONSTRUCTION DOCUMENTS
Project Title: RENOVATE PHARMACY CLEAN ROOM (USP 797)
Location: 510 E. Stoner Ave. Shreveport, LA 71101
Issue Date: 10/05/2017 | Checked: RRK | Drawn: KJS
Project Number: 667-17-108
Building Number: 1
Drawing Number: E001

VA FORM 08 - 6231

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