

GENERAL NOTES

1. THE BIDDING CONTRACTOR IS REQUIRED TO MAKE A DETAILED FIELD INVESTIGATION PRIOR TO BID. ANY FIELD OBSERVATIONS MADE NEEDING RESOLUTION SHALL BE SUBMITTED TO THE CONTRACT OFFICER IN A RFI PRIOR TO BID.
2. ANY OUTAGES TO EXISTING SYSTEMS SHALL BE COORDINATED WITH THE VA 14 DAYS PRIOR TO START OF WORK.
3. PROVIDE TEMP POWER AND LIGHTING AS REQUIRED DURING THE CONSTRUCTION PHASE.

ELECTRICAL LEGEND

GENERAL ELECTRICAL DEVICES:
 § SINGLE POLE LIGHTING SWITCH. MOUNT 48" AFF UNLESS NOTED OTHERWISE. SUBSCRIPT INDICATES AS FOLLOWS:
 3 - THREE-WAY LIGHTING SWITCH.

⊖ 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.
 84" - MOUNTING HEIGHT OF DEVICE AFF.

⊙ JUNCTION BOX.

DISTRIBUTION & POWER EQUIPMENT:
 ▭ PANELBOARD. MOUNT AS INDICATED. SEE PANELBOARD SCHEDULES.
 ▨ NEC 110.28(A) WORKING CLEARANCE.
 ▩ FLOOR MOUNTED TRANSFORMER WITH CONCRETE HOUSEKEEPING PAD. SEE TRANSFORMER SCHEDULE FOR SIZE AND TYPE.
 ⊞ MAGNETIC MOTOR STARTER. SIZE AS REQUIRED. MOUNT IN SERVING ELECTRICAL ROOM UNLESS SPECIFICALLY NOTED OTHERWISE.
 ⊞ COMBINATION MAGNETIC MOTOR STARTER DISCONNECT. SIZE AS REQUIRED.
 ⊞ NON-FUSED HEAVY DUTY SAFETY SWITCH. SIZE FOR LOAD BEING SERVED.
 ⊞ FUSED HEAVY DUTY SAFETY SWITCH. SIZE FOR LOAD BEING SERVED.

LIGHT FIXTURES:
 ⊞ EPL SURFACE MOUNTED ROUGH SERVICE LIGHT FIXTURE. SUPPLY FIXTURE WITH EMERGENCY BATTERY BACKUP.
 (BASIS OF DESIGN: LITHONIA VAP 4000LM FST MD MVOLT GZ10 35K 90CRI BSL722)

OTHER:
 ~~~~~ CIRCUIT RUN CONCEALED ABOVE CEILING OR IN WALL.  
 ~~~~~ CIRCUIT RUN CONCEALED IN OR BELOW FLOOR SLAB OR UNDERGROUND.  
 ~~~~~ HOMERUN TO PANELBOARD. ANY CIRCUIT WITHOUT FURTHER DESIGNATION SHALL BE 2#12 #12G, 1/2" C. 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 120V HOMERUNS GREATER THAN 180 FEET SHALL BE #6 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.

① SHEET NOTE TAG.

/// LEADERS.

**FIRE ALARM SYSTEM:**  
 ⊞ FIRE ALARM SYSTEM ADDRESSABLE HEAT DETECTOR. CEILING MOUNT. SUBSCRIPT 190° INDICATES TO PROVIDE 190° DEVICE WITH MONITOR MODULE.  
 ⊞ FIRE ALARM SYSTEM ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR. CEILING MOUNT.  
 ⊞ FIRE ALARM SYSTEM ADDRESSABLE PULL STATION. DOWN RELAY (UNLESS NOTED OTHERWISE). PROVIDE WITH POWER RELAY WHERE REQUIRED.  
 ⊞ FIRE ALARM SYSTEM ADDRESSABLE CONTROL DEVICE FOR ELEVATOR RECALL. FUTURE AND SIGNAL WIRING AS REQUIRED BY CODE/FIRE MARSHAL. PROVIDE AS REQUIRED FOR "DOWN" AND "ALTERNATE" FLOORS. ALSO INCLUDE ALL WIRING REQUIRED TO SHUNT THE SHUNT TRIP CKT.  
 ⊞ ADDRESSABLE MONITOR MODULE CONNECTED TO FLOW SWITCH.  
 ⊞ ADDRESSABLE MONITOR MODULE CONNECTED TO TAMPER SWITCH.  
 ⊞ ADDRESSABLE MONITOR MODULE CONNECTED TO PRESSURE SWITCH.  
 ⊞ ADDRESSABLE MONITOR MODULE CONNECTED TO FIRE PUMP CONTROLLER. PROVIDE SEPARATE INDICATIONS FOR:  
 1. FIRE PUMP RUNNING.  
 2. FIRE PUMP POWER LOSS.  
 3. FIRE PUMP PHASE REVERSAL.  
 4. FIRE PUMP LOW PRESSURE.  
 ⊞ ADDRESSABLE MONITOR MODULE.

**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                           |
| BOND  | 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                                  | OFI  | OWNER FURNISHED OWNER INSTALLED          |
| CB    | CIRCUIT BREAKER                          | OFCI | OWNER FURNISHED CONTRACTOR INSTALLED     |
| CL    | CURRENT LIMITING                         | OH   | OVERHEAD                                 |
| CL    | CENTERLINE                               | OHE  | OVERHEAD ELECTRIC                        |
| CLG   | CEILING                                  | OHP  | OVERHEAD PRIMARY                         |
| CKT   | CIRCUIT                                  | OHS  | OVERHEAD SECONDARY                       |
| CT    | CURRENT TRANSFORMER                      | PBD  | PANELBOARD                               |
| CU    | COPPER                                   | PF   | POWER FACTOR                             |
| DDC   | DIRECT DIGITAL CONTROL                   | PNL  | PANELBOARD                               |
| DEMO  | DEMOLISH                                 | PT   | POTENTIAL TRANSFORMER                    |
| EC    | ELECTRICAL CONTRACTOR                    | PWR  | POWER                                    |
| EGC   | EQUIPMENT GROUNDING CONDUCTOR            | RCPT | RECEPTACLE                               |
| ELEC  | ELECTRICAL                               | REQD | REQUIRED                                 |
| EMGB  | ELECTRICAL MAIN GROUNDING BUSBAR         | RM   | ROOM                                     |
| EF    | EXHAUST FAN                              | RIG  | RIGID GALVANIZED STEEL CONDUIT           |
| EX    | EXISTING TO REMAIN                       | RIG  | RIGID METALLIC CONDUIT                   |
| EXT   | EXTERIOR                                 | RVS  | 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                                     | SWGR | SWITCHGEAR                               |
| FLA   | FIRE ALARM                               | TBB  | TELECOMMUNICATIONS BONDING BACKBONE      |
| FLA   | FULL LOAD AMP                            | TR   | TELECOMMUNICATIONS ROOM                  |
| FLOOR | FLOOR                                    | TGB  | TELECOMMUNICATIONS GROUNDING BUSBAR      |
| FULL  | FULL VOLTAGE NON-SPRINGING               | TMGB | TELECOMMUNICATIONS MAIN GROUNDING BUSBAR |
| GR    | GROUND FAULT INTERRUPTER                 | TVSS | TRANSIENT VOLTAGE SURGE SUPPRESSION      |
| GR    | GROUND (OR GFI FOR RECEPTACLE SUBSCRIPT) | TYP  | TYPICAL                                  |
| G     | GENERAL CONTRACTOR                       | UFR  | UNDERFLOOR RACEWAY                       |
| GND   | GROUND                                   | UG   | UNDERGROUND                              |
| GEC   | GROUNDING ELECTRODE CONDUCTOR            | UGE  | UNDERGROUND ELECTRIC                     |
| HH    | HANDHOLE                                 | UGP  | UNDERGROUND PRIMARY                      |
| HDA   | HAND-OFF-AUTOMATIC                       | UGS  | UNDERGROUND SECONDARY                    |
| HP    | HEAT PUMP OR HORSEPOWER                  | UL   | UNDERWRITERS' LABORATORIES               |
| HVAC  | HEATING, VENTILATION & AIR-CONDITIONING  | UNO  | UNLESS NOTED OTHERWISE                   |
| IG    | ISOLATED GROUND                          | UPS  | UNINTERRUPTIBLE POWER SUPPLY             |
| IMC   | INTERMEDIATE METAL CONDUIT               | V    | VOLT                                     |
| JB    | JUNCTION BOX                             | VA   | VOLT-AMPERES                             |
| K     | KILO                                     | VAR  | VOLT-AMPERES REACTIVE                    |
| KAIC  | KILO-AMPERE INTERRUPTING CAPABILITY      | VAV  | VARIABLE AIR VOLUME UNIT                 |
| KMIL  | THOUSAND CIRCULAR MILS                   | W    | WATTS                                    |
| LCP   | LIGHTING CONTROL PANEL                   | WAO  | WORK AREA OUTLET                         |
| LTG   | LIGHTING                                 | WP   | WEATHERPROOF                             |
| LFMC  | LIQUID TIGHT FLEXIBLE METAL CONDUIT      | WTR  | WITHSTAND RATING                         |
| LV    | LOW VOLTAGE                              | XFMR | TRANSFORMER                              |
| MAX   | MAXIMUM                                  | XP   | EXPLOSION PROOF                          |
| MCA   | MINIMUM CIRCUIT AMPACITY                 | ∅    | PHASE                                    |
| MCC   | MOTOR CONTROL CENTER                     | 72°  | DEGREES                                  |
| MCE   | MAIN COMMUNICATIONS EQUIPMENT ROOM       | Δ    | DELTA                                    |
|       |                                          | Ω    | OHMS                                     |

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