

| MARK | MANUFACTURER                | CATALOG NUMBER                    | VOLTAGE | LAMPS  |       |      | MOUNTING HEIGHT                    | MOUNTING TYPE         | REMARKS  |
|------|-----------------------------|-----------------------------------|---------|--------|-------|------|------------------------------------|-----------------------|----------|
|      |                             |                                   |         | NUMBER | WATTS | TYPE |                                    |                       |          |
| A1   | LITHONIA COLUMBIA DAY-BRITE | ZVTL4-48L-ADP-EZ1                 | 120     | 1      | 4800L | LED  | CEILING                            | RECESSED              |          |
| A1E  | LITHONIA COLUMBIA DAY-BRITE | ZVTL4-48L-ADP-EZ1-EL              | 120     | 1      | 4800L | LED  | CEILING                            | RECESSED              | EM       |
| A2   | LITHONIA COLUMBIA DAY-BRITE | ZVTL4-30L-ADP-EZ1                 | 120     | 1      | 3000L | LED  | CEILING                            | RECESSED              |          |
| A2E  | LITHONIA COLUMBIA DAY-BRITE | ZVTL4-30L-ADP-EZ1-EL              | 120     | 1      | 2850  | LED  | CEILING                            | RECESSED              | EM       |
| C2   | LITHONIA COLUMBIA DAY-BRITE | WLS-18L                           | 120     | 1      | 18 W  | LED  | ABOVE DOOR                         | OUTLET BOX            |          |
| C4   | LITHONIA COLUMBIA DAY-BRITE | WL4-30L                           | 120     | 1      | 18 W  | LED  | CEILING                            | SURFACE               |          |
| C4E  | LITHONIA COLUMBIA DAY-BRITE | WL4-30L-EL                        | 120     | 1      | 18 W  | LED  | ABOVE DOOR                         | OUTLET BOX            | EM       |
| D1   | GOTHAM PRESCOLITE OMEGA     | EVO-K15L-A-MWD-LSS-EZ1            | 120     | 1      | 18 W  | LED  | CEILING                            | RECESSED              | FSA      |
| D1E  | GOTHAM PRESCOLITE OMEGA     | EVO-K15L-A-MWD-LSS-EZ1-EL         | 120     | 1      | 18 W  | LED  | CEILING                            | RECESSED              | EM FSA   |
| D3   | GOTHAM PRESCOLITE OMEGA     | GO-ADM-K10L-4-MWD-LSS-450         | 120     | 1      | 12W   | LED  | CEILING                            | RECESSED              | FSA      |
| F4   | COLUMBIA LITHONIA DAY-BRITE | CWM4-K10W-SM-M-E                  | 120     | 1      | 18 W  | LED  | AS DIRECTED BY ARCHITECT           | OUTLET BOX            | FSA      |
| L3   | BIRCHWOOD                   | ER-LED-325S-SLO-35-119-092-SC-CSS | 120     | 1      | 3W    | LED  | AS DIRECTED BY ARCHITECT           | PENDANT               | FSA      |
| L5   | BIRCHWOOD                   | ER-LED-325S-SLO-35-119-404-SC-CSS | 120     | 1      | 3W    | LED  | AS DIRECTED BY ARCHITECT           | PENDANT               | FSA      |
| Q    | ORIGINAL CAST LIGHTING      | VA2-015A-08-WF-PT2-2L01540K       | 120     | 1      | 15 W  | LED  | AS DIRECTED BY ARCHITECT           | OUTLET BOX            | FSA      |
| UC   | LITHONIA                    | RAZ12                             | 120     | 1      | 7W    | LED  | UNDER CABINET                      | SURFACE               | UC       |
| X1   | LITHONIA COLUMBIA DAY-BRITE | EDG-1R-EL                         | 120     |        |       |      | FURNISHED BY MANUFACTURER          | CEILING OR ABOVE DOOR | EMK      |
| X2   | LITHONIA COLUMBIA DAY-BRITE | EDG-2R-EL                         | 120     |        |       |      | FURNISHED BY MANUFACTURER          | CEILING OR ABOVE DOOR | EMK      |
| Y3   | LITHONIA COLUMBIA DAY-BRITE | DSX2-P1-40K-T3-BL30               | 120     | 1      | 140 W | LED  | MOUNT ON 24 FOOT SQUARE STEEL POLE | SEE DETAIL "E-LP1"    | BLD. FSA |

**LIGHTING FIXTURE SCHEDULE GENERAL NOTES:**

- ALL FLUORESCENT BALLASTS SHALL BE ELECTRONIC, RAPID-FREQUENCY START WITH PARALLEL WIRING, 10% THD (PHASE ADVANCE CAP/MINIMUM 80% OR EQUAL).
- WHERE THIS PROJECT INCLUDES A RENOVATION TO AN EXISTING BUILDING, ALL FLUORESCENT LAMPS SHALL MATCH THE COLOR TEMPERATURE OF THE EXISTING FIXTURES. OTHERWISE, ALL FLUORESCENT LAMPS SHALL BE 3500K WITH A MINIMUM CRI OF 80 UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL COORDINATE ALL FIXTURE MOUNTING PROVISIONS WITH THE ASSOCIATED CEILING TYPE(S) PRIOR TO ORDERING FIXTURES.
- ALL FIXTURES AND BALLASTS/DRIVERS SHALL BE RATED FOR OPERATION IN AMBIENT TEMPERATURES UP TO 55 DEGREES CELSIUS.
- TO ENSURE PROPER COORDINATION AND LONG TERM SUPPORT FOR THE CABINET, ALL LIGHTING FIXTURES SHALL BE PURCHASED THROUGH MANUFACTURER'S REPRESENTATIVES AND DISTRIBUTORS LOCATED WITHIN SIXTY (60) MILES OF THE PROJECT SITE. SUBMITTALS RECEIVED THAT DO NOT COMPLY WITH THIS REQUIREMENT WILL BE REJECTED WITHOUT REVIEW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DELAYS CAUSED BY NON-COMPLIANCE WITH THIS REQUIREMENT.

**LIGHTING FIXTURE SCHEDULE KEYED NOTES:**

BLD - PROVIDE DIMMING DRIVER AS REQUIRED FOR 30% BI-LEVEL DIMMING

EM - EMERGENCY FIXTURE. PROVIDE EMERGENCY BATTERY PACK RATED FOR AT LEAST 90 MINUTES OF OPERATION.

EMK - EMERGENCY FIXTURE. PROVIDE EMERGENCY BATTERY PACK RATED FOR AT LEAST 90 MINUTES OF OPERATION.

FSA - PROVIDE FINISH AS SELECTED BY ARCHITECT

UC - FURNISH THE GREATER QUANTITY OF ONE (1) TYPE "UC" FIXTURE PER CABINET SECTION OR ONE PER 24" OF LINEAR CABINET FOR LENGTH OF CABINET. PROVIDE FINISH AS SELECTED BY ARCHITECT. FIELD-COORDINATE EXACT LOCATIONS WITH CABINETRY TO COORDINATE WITH UNDERCABINET MOUNTING STRUCTURE AND TO PROVIDE UNDERCABINET LIGHTING LEVELS.

| RELAY MARK | DESCRIPTION                         | ASSOCIATED PANEL | SUBJECTS ON | NOTES | ON/OFF | OVERPRIDE OFF | REMARKS   |
|------------|-------------------------------------|------------------|-------------|-------|--------|---------------|-----------|
| A.1        | EXTERIOR LIGHTING                   | L.P.A.           | 45          | DUSK  | ON     |               | EMERGENCY |
| A.2        | PARKING LOT LIGHTING (30% BI-LEVEL) | L.P.A.           | 45          | ON    | ON     |               |           |
| A.3        | PARKING LOT LIGHTING (70% BI-LEVEL) | L.P.A.           | 45          | ON    | ON     |               |           |
| A.4        | SPARE                               |                  |             |       |        |               |           |
| A.5        | SPARE                               |                  |             |       |        |               |           |
| A.6        | SPARE                               |                  |             |       |        |               |           |
| A.7        | SPARE                               |                  |             |       |        |               |           |
| A.8        | SPARE                               |                  |             |       |        |               |           |
| A.9        | SPARE                               |                  |             |       |        |               |           |
| A.10       | SPARE                               |                  |             |       |        |               |           |
| A.11       | SPARE                               |                  |             |       |        |               |           |
| A.12       | SPARE                               |                  |             |       |        |               |           |

**LIGHTING CONTROL PANELS SHALL UTILIZE 30 AMP CONTACTORS.**

- ALL PRESET TIME DELAYED CIRCUITS SHALL BE SET INTO THE LIGHTING CONTROL SYSTEM AS DIRECTED BY THE OWNER.
- ALL INTERLOCK RELAYS SHALL BE PROGRAMMED TO SHUT OFF TO PROVIDE WARNING TO THE OCCUPANTS 5 MINUTES PRIOR TO AUTO OFF.
- PROVIDE BARRIER BETWEEN NORMAL AND EMERGENCY POWER CIRCUITS. RELAYS SHALL CLOSE UPON LOSS OF NORMAL POWER.

| GENERAL ELECTRICAL LEGEND  |  |
|--|--|
| <p>OUTLET INSTALLATION DESIGNATIONS (APPLY TO ALL OUTLETS, DEVICES &amp; EQUIPMENT):</p> <p>A ABOVE COUNTER - OUTLET SHALL BE MOUNTED 6 INCHES ABOVE DECK/COUNTERTOP, OR 4 INCHES ABOVE COUNTERTOP BACKPLASH AS REQUIRED BY CONDITION, OR 48" A.F.F. OR AS NOTED.</p> <p>C OUTLET MOUNTED FLUSH WITHIN CEILING - VERIFY EXACT LOCATIONS PRIOR TO ROUGH-IN.</p> <p>CW INSTANT OUTLET WITHIN CASEWORK AND ROUTE CIRCUITRY (IN CONDUIT) WITHIN CASEWORK AS DIRECTED BY CASEWORK PROVIDER.</p> <p>E EMERGENCY CIRCUIT - PROVIDE RED DEVICE - MAINTAIN SEPARATION BETWEEN NORMAL AND EMERGENCY CIRCUITRY (WITH SEPARATE CONDUITS AND METAL BARRIERS AS REQUIRED) PER NEC ARTICLE 700.10(B).</p> <p>VL VERIFY EXACT OUTLET LOCATION WITH OWNER PRIOR TO ROUGH-IN.</p> <p>W WEATHER PROOF - OUTLET SHALL BE INSTALLED WITH WEATHERPROOF, IN-USE, CAST COVER.</p> <p>TV LOCATED BEHIND TELEVISION MONITOR - EXACT HEIGHT AS DIRECTED BY ARCHITECT.</p> <p>EQUIPMENT OUTLET DESIGNATIONS (APPLY TO ALL OUTLETS, DEVICES &amp; EQUIPMENT):</p> <p>DF DRINKING FOUNTAIN OUTLET - EXACT MOUNTING HEIGHT AS DIRECTED BY EQUIPMENT SUPPLIER.</p> <p>MW MICROWAVE (OR COMBINATION MICROWAVE/VENTILATION HOOD) OUTLET - VERIFY EXACT LOCATION WITH ARCHITECTURAL ELEVATION PRIOR TO ROUGH-IN.</p>  |  |
| <p>BRANCH/FEEDER CIRCUIT - CONCEALED IN WALLS OR CEILING.</p> <p>BRANCH/FEEDER CIRCUIT - CONCEALED IN FLOOR SLAB OR DIRT FILL.</p> <p>BRANCH/FEEDER CIRCUIT - HOMERUN - CAN BE USED WITH OTHER BRANCH/FEEDER TYPES.</p> <p>BRANCH/FEEDER CIRCUIT MODIFIERS:</p> <p>2#12 &amp; 1#120 UNLESS NOTED OTHERWISE.</p> <p>2#12 &amp; 1#120, ETC. UNLESS NOTED OTHERWISE (TICK MARKS INDICATE CONDUCTOR QUANTITY NOT INCLUDING GROUND WIRE).</p> <p>2#10 &amp; 1#100 UNLESS NOTED OTHERWISE (NUMBER INDICATES WIRE AWG).</p> <p>SIZE CONDUIT PER N.E.C. UNLESS INDICATED OTHERWISE.</p> <p>BRANCH CIRCUIT - RISER DOWN OR GENERAL CONDUIT STUB-OUT.</p>  |  |
| <p>POWER DISTRIBUTION EQUIPMENT.</p> <p>LIGHTING PANEL - SURFACE MOUNTED.</p> <p>MOTOR STARTER.</p> <p>DISCONNECT SWITCH - NON-FUSED.</p> <p>DISCONNECT SWITCH - FUSED.</p> <p>GROUND CONNECTION.</p> <p>MOTOR OUTLET - SEE DETAIL "E-LP1".</p>  |  |
| <p>NORMAL EMERGENCY:</p> <p>FIXTURE OUTLET - SURFACE OR PENDANT MOUNTED LIGHT FIXTURE.</p> <p>FIXTURE OUTLET - LINEAR - SURFACE OR PENDANT MOUNTED LIGHT FIXTURE.</p> <p>FIXTURE OUTLET - LINEAR - RECESSED LIGHT FIXTURE.</p> <p>FIXTURE OUTLET - WALL MOUNTED LIGHT FIXTURE.</p> <p>FIXTURE OUTLET - POLE LIGHT FIXTURE - QUANTITY AND ORIENTATION(S) OF LUMINAIRES AS INDICATED ON PLANS.</p> <p>FIXTURE OUTLET - EXIT SIGN - CEILING OR WALL MOUNTED AS INDICATED - QUANTITY AND ORIENTATION OF FACES AND DIRECTIONAL ARROWS AS INDICATED.</p> <p>FIXTURE OUTLET DESIGNATIONS:</p> <p>A FIXTURE TYPE "A" - MAY BE USED WITH OTHER TYPES.</p> <p>b SWITCH LEG TO WHICH FIXTURE IS CONNECTED - MAY BE USED WITH OTHER LIGHTING CASE LETTERS.</p> <p>2 CIRCUIT NUMBER - MAY BE USED WITH OTHER NUMBERS.</p> <p>DL INDICATES FIXTURE CONTROLLED BY DAYLIGHTING SENSOR.</p> <p>EM EMERGENCY FIXTURE.</p> <p>NL NIGHT LIGHT - DO NOT SWITCH.</p> <p>PC INDICATES FIXTURE CONTROLLED BY PHOTO CELL.</p> <p>SL SECURITY LIGHT - DUSK-TO-DAWN OPERATION.</p> <p>SWITCH OUTLET - S.P.S.T. - 20A - 120-277VAC.</p> <p>LIGHTING CONTROL SYSTEM - SWITCH OUTLET - LOW VOLTAGE - DIGITAL - BUTTONS AS REQUIRED FOR INDEPENDENT CONTROL OF EACH ZONE IN SPACE - CONNECT TO ASSOCIATED ROOM CONTROLLER PER DIAGRAM.</p> <p>LIGHTING CONTROL SYSTEM - SWITCH OUTLET - LOW VOLTAGE - DIGITAL - BUTTONS AS REQUIRED FOR INDEPENDENT CONTROL OF EACH ZONE IN SPACE - CONNECT TO ASSOCIATED ROOM CONTROLLER PER DIAGRAM.</p> <p>SWITCH OUTLET - OCCUPANCY SENSOR WITH MANUAL OVERRIDE - S.P.S.T. - 120-277VAC - P.I.R. SENSOR - WATTSTOPPER PERMITTED OR EQUAL - RATED 800W AT 120VAC AND 1200W AT 277VAC - GREY WITH STAINLESS STEEL COVER - SEE DETAIL "E-RC".</p> <p>SWITCH OUTLET - MANUAL MOTOR STARTER - TOGGLE TYPE - 2 POLE - SQUARE "D" TYPE K01 WITH LOCK - PROVIDE LOCK-OFF HARDWARE.</p> <p>LIGHTING CONTROL PANEL.</p> <p>LIGHTING CONTROL SYSTEM - OCCUPANCY SENSOR - CEILING OR WALL MOUNTED AS INDICATED - EXACT MOUNTING PROVISIONS, SENSOR TYPE AND LOCATION SHALL BE AS DIRECTED BY SUPPLIER FOR PROPER COVERAGE - LOW VOLTAGE - DUAL TECHNOLOGY (PIR AND ULTRASONIC) - PROVIDE WITH POWER PACK(S) (LOCATED ABOVE CEILING IN ACCESSIBLE LOCATION) AS REQUIRED TO CONTROL ALL LOCAL LIGHTING - MAKE ALL CONNECTIONS (LOW VOLTAGE AND LINE VOLTAGE) TO CONTROL LOCAL LIGHTING AS DIRECTED BY SUPPLIER - SEE DETAIL "E-CO".</p> <p>LIGHTING CONTROL SYSTEM - ON/OFF ROOM CONTROLLER(S) - LOW VOLTAGE - WATTSTOPPER LMRC-102 - MOUNT AS DIRECTED BY SUPPLIER ABOVE ACCESSIBLE CEILING - PROVIDE ALL INTERCONNECTIONS (LOW VOLTAGE AND LINE VOLTAGE) TO SENSORS, CONTROL SWITCHES, LIGHT FIXTURES, ETC. TO CONTROL LOCAL LIGHTING AS DIRECTED BY SUPPLIER - SEE DETAIL "E-RC".</p> <p>LIGHTING CONTROL SYSTEM - DIMMING ROOM CONTROLLER(S) - LOW VOLTAGE - WATTSTOPPER LMRC-212 - MOUNT AS DIRECTED BY SUPPLIER ABOVE ACCESSIBLE CEILING - PROVIDE ALL INTERCONNECTIONS (LOW VOLTAGE AND LINE VOLTAGE) TO SENSORS, CONTROL SWITCHES, LIGHT FIXTURES, ETC. TO CONTROL LOCAL LIGHTING AS DIRECTED BY SUPPLIER - SEE DETAIL "E-RC".</p> <p>EMERGENCY LIGHTING INVERTER - 125W - VOLTAGE AS REQUIRED BY APPLICATION - ISOLITE EM-12-12V - 2HR RUNTIME - CONNECT AS REQUIRED TO SWITCH OUTPUT WITH SWITCH INPUT WHERE APPLICABLE.</p> <p>DOUBLE DUPLEX.</p> <p>WALL OUTLET - RECEPTACLE - 20A - 125V - 2P - 3W - GROUNDING - NEMA 5-20R - SINGLE PLATE.</p> <p>WALL OUTLET - RECEPTACLE - 20A - 125V - 2P - 3W - GROUNDING - "GF" TYPE - WEATHER RESISTANT - NEMA 5-20R - SINGLE PLATE.</p> <p>WALL OUTLET - RECEPTACLE - 20A - 125V - 2P - 3W - GROUNDING - NEMA 5-20R WITH TWO (2) 3A USB PORTS FOR EVERY ONE DUPLEX (1) RECEPTACLE - SINGLE PLATE.</p> <p>WALL OUTLET - SINGLE RECEPTACLE - 15A - 125V - 2P - 3W - GROUNDING - CLOCK OUTLET - HUBBELL H2535 - HEIGHT AS DIRECTED BY OWNER.</p> <p>MULTISERVICE FLOOR BOX - SEE DETAIL "E-FB1" - "MFD" REPRESENTS REQUIRED COMMUNICATIONS JACK CONFIGURATION - PROVIDE COMMUNICATIONS JACKS, CABLING ETC. PER COMMUNICATION OUTLET LEGEND AT "E-CO".</p> <p>COMMUNICATIONS OUTLET - SEE DETAIL "E-CO" - "MFD" REPRESENTS REQUIRED COMMUNICATIONS JACK CONFIGURATIONS.</p> <p>TELEPHONE BACKBOARD - 8" H x 3/4" THICK x LENGTH AS SHOWN ON PLANS - COMPLETE WITH NO. 6 GROUND WIRE IN 1/2 INCH CONDUIT TO FACILITY GROUND SYSTEM AND TO 1/2" x 1/4" THICK GROUND BUS WITH ISOLATED MOUNTING BOLTS - FINISH WITH TWO (2) COATS OF FIRE-RETARDANT ENAMEL PAINT - PAINT COLOR TO MATCH SURROUNDING WALLS.</p> <p>COMMUNICATIONS CABLING - "MFD" REPRESENTS REQUIRED COMMUNICATIONS CABLING (SEE LEGEND AT DETAIL "E-CO") - PROVIDE CONDUIT SIZED PER NEC IN INACCESSIBLE SPACES.</p> <p>COMMUNICATIONS CABLING - HOMERUN TO NEAREST COMMUNICATIONS BACKBOARD, RACK OR CABINET AS APPLICABLE - "MFD" REPRESENTS REQUIRED COMMUNICATIONS CABLING (SEE LEGEND AT DETAIL "E-CO") - PROVIDE CONDUIT SIZED PER NEC IN INACCESSIBLE SPACES.</p> |  |

**GENERAL ELECTRICAL NOTES**

- CONTRACTOR SHALL VERIFY ALL REQUIREMENTS FOR TELEPHONE AND POWER SERVICES WITH RESPECTIVE UTILITY COMPANIES PRIOR TO SUBMITTING BID. IF THEIR REQUIREMENTS ARE AT A VARIANCE WITH THOSE SHOWN ON PLANS THE CONTRACTOR SHALL INFORM ARCHITECT IMMEDIATELY. ALL COSTS INCURRED WITH UTILITY COMPANIES FOR SERVICES SHALL BE INCLUDED IN BID PRICE. IF SUCH COSTS ARE NOT AVAILABLE AT BID TIME CONTRACTOR SHALL INCLUDE WITH BID A LETTER FROM A RESPONSIBLE PARTY WITH THE UTILITY COMPANY STATING SUCH, AND COSTS WILL THEN BE EXCLUDED FROM THE BID PRICE.
- THIS CONTRACTOR SHALL VERIFY EXACT REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT FROM MANUFACTURER'S RECOMMENDATIONS PRIOR TO ROUGHING IN CONDUIT OR ORDERING CIRCUIT PROTECTION DEVICES. CONTRACTOR SHALL ADJUST CONDUIT SIZE, WIRE SIZE AND CIRCUIT PROTECTION SIZE ACCORDINGLY IF REQUIREMENTS ARE LARGER THAN CALLED FOR ON ELECTRICAL PLANS NOTIFY ARCHITECT IMMEDIATELY.
- CONTRACTOR SHALL VISIT THE SITE OF THE WORK PRIOR TO SUBMITTING BID TO EXAMINE CAREFULLY LOCAL CONDITIONS AND DIFFICULTIES TO BE ENCOUNTERED. ANY DISCREPANCY BETWEEN PLANS AND EXISTING CONDITIONS SHALL IMMEDIATELY BE CALLED TO THE ATTENTION OF THE ARCHITECT.
- THIS CONTRACTOR SHALL REVIEW ARCHITECTURAL, CASEWORK ELEVATIONS AND CASEWORK SHOP DRAWINGS PRIOR TO ROUGHING-IN OUTLETS AT CASEWORK. ADJUST OUTLET LOCATIONS AS REQUIRED TO ACCOMMODATE ACTUAL CASEWORK DESIGN.

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