

SECTION 16515 - INTERIOR LIGHTING FIXTURES

- LIGHTING FIXTURES SHALL BE UL LISTED AND LABELED WITH UL LISTED WIRING. WIRING SHALL BE SUITABLE FOR THE LIGHTING FIXTURE TEMPERATURE LISTING.
- ALL FLUORESCENT LIGHTING FIXTURES SHALL HAVE HIGH POWER FACTOR, ENERGY CONSERVING SOLID STATE BALLASTS. EACH BALLAST SHALL BE PROVIDED WITH INTEGRAL THERMAL PROTECTION. ALL BALLASTS SHALL HAVE AN "A" SOUND RATING, AND UL, CBM AND ELECTRICAL TESTING LABORATORIES CERTIFICATION. BALLASTS SHALL HAVE LESS THAN 20% TOTAL HARMONIC DISTORTION. BALLASTS SHALL BE PROGRAMMED RAPID START, EXCEPT WHERE OTHERWISE INDICATED. ALL BALLASTS SHALL BE RATED FOR USE AT 120 OR 277 VOLTS, 60 HERTZ AS SCHEDULED. BALLASTS SHALL BE MADE BY ADVANCE, UNIVERSAL OR APPROVED EQUAL. ALL BALLASTS FOR OUTDOOR USE SHALL BE LOW TEMPERATURE TYPE (-20 DEGREES F).
- FLUORESCENT LAMPS SHALL BE NOMINALLY 32 WATT T8, 4100°K, MINIMUM CRI [75][80], UNLESS OTHERWISE NOTED IN LIGHTING FIXTURE SCHEDULE. INCANDESCENT LAMPS SHALL BE INSIDE FROSTED, REFLECTOR TYPE, OR AS OTHERWISE NOTED. LL LAMPS SHALL BE MANUFACTURED BY GENERAL ELECTRIC, OSRAM-SYLVANIA, NORTH AMERICAN PHILLIPS, OR APPROVED EQUAL.
- LIGHTING FIXTURES IN SUSPENDED CEILING SHALL BE SUPPORTED DIRECTLY BY THE CEILING SUPPORT SYSTEM. PROVIDE A MINIMUM OF TWO GRID CLAMPS FOR EACH FLUORESCENT LIGHTING FIXTURE, ONE AT EACH END OF THE LIGHTING FIXTURE, UNLESS OTHERWISE REQUIRED. [PROVIDE TWO SAFETY CHAINS OR WIRES TO SUPPORT EACH LIGHTING FIXTURE FROM THE SLAB ABOVE.]
- RECESSED LIGHTING FIXTURES SHALL BE DESIGNED TO FIT THE MAKE AND TYPE OF CEILING TO BE INSTALLED, AND SHALL INCLUDE PLASTER FRAMES WHERE INSTALLED IN PLASTER CEILINGS, MOUNTING YOKES WHERE REQUIRED FOR SUPPORT FROM CEILING CONSTRUCTION, AND INDEPENDENT SUPPORT FROM STRUCTURE MEMBERS WHERE THE WEIGHT OF LIGHTING FIXTURES WOULD CAUSE DEFORMATION OF THE CEILING.
- INDUSTRIAL OR STRIP FLUORESCENT LIGHTING FIXTURES, UNLESS INDICATED OTHERWISE, SHALL BE CHAIN SUSPENDED AND EQUIPPED WITH A PREWIRED "S" CORD AND 120-VOLT GROUNDED TYPE PLUG. FIXTURES SHALL BE SUPPORTED FROM A DAY-BRITE 5900 SERIES OR IDEAL 360-7300 SERIES HYDEE FIXTURE HANGER, COMPLETE WITH 120-VOLT GROUNDED RECEPTACLE, "S" HOOKS AND CORD GRIPS. HANGERS SHALL BE MOUNTED TO A 4" ROUND OUTLET BOX AND BE THE TYPE THAT PERMITS 360 DEGREE ADJUSTMENT OF THE FIXTURES.
- BRANCH CIRCUIT CONDUITS FOR LIGHTING FIXTURES IN SUSPENDED CEILINGS SHALL BE SUPPORTED FROM THE STRUCTURAL CEILING WITH A 1/2" FLEXIBLE METALLIC CONDUIT CONNECTION TO THE LIGHTING FIXTURE.
- ALL LIGHTING FIXTURES SHALL BE THOROUGHLY CLEANED TO REMOVE ALL CONSTRUCTION DUST, PAINT, GROUT, ETC. THIS SHALL INCLUDE ALL LIGHT REFLECTING SURFACES, FRAMES AND LENSES. ANY LIGHTING FIXTURES OR PARTS OF LIGHTING FIXTURES DAMAGED BY THE CONSTRUCTION WORK SHALL BE REPLACED. ALL LAMPS SHALL BE NEW AND ANY LAMPS INSTALLED IN LIGHTING FIXTURES FOR USE DURING CONSTRUCTION SHALL BE REPLACED.
- INSTALL ALL CEILING MOUNTED FIXTURES ACCORDING TO THE ARCHITECTURAL REFLECTED CEILING PLANS. LOCATIONS ON THE ELECTRICAL DRAWINGS ARE FOR REFERENCE ONLY.

SECTION 16721 - ADDRESSABLE FIRE ALARM SYSTEM

- PROVIDE AN ADDRESSABLE FIRE ALARM SYSTEM WITH NOTIFICATION APPLIANCES IN ALL GUEST SUITE UNITS AND PUBLIC SPACES. THE SYSTEM SHALL BE ACTIVATED BY CORRIDOR SMOKE DETECTORS, ANY DUCT SMOKE DETECTORS, SPRINKLER WATER FLOW AND MANUAL PULL STATIONS. THE SYSTEM SHALL NOT BE ACTIVATED BY MULTIPLE-STATION SMOKE ALARMS IN THE DWELLING UNITS.
- ALL SYSTEM COMPONENTS SHALL BE UL LISTED. THE SYSTEM SHALL BE ENGINEERED BY A FACTORY AUTHORIZED DEALER. NON-ENGINEERED SYSTEMS WILL NOT BE ACCEPTED.
- SUBMIT THE FACTORY ENGINEERS SHOP DRAWINGS TO THE AUTHORITY HAVING JURISDICTION FOR PERMITTING.
- ALL SMOKE DETECTORS SHALL BE SYSTEM POWERED, PHOTOELECTRIC TYPE, ADDRESSABLE WITH DRIFT COMPENSATION AND ALARM VERIFICATION.
- SYSTEM TYPE ADDRESSABLE PHOTOELECTRIC SMOKE DETECTORS FOR SMOKE ALARMS SHALL BE INSTALLED IN GUEST SUITE UNITS.
- PROVIDE UL LISTED AND ADA COMPLIANT NOTIFICATION APPLIANCES AS SHOWN ON THE PLANS. AUDIOIBLE NOTIFICATION APPLIANCES SHALL BE ADJUSTABLE, RATED FOR 90 DB MAX AT 10'. CANDELA RATINGS OF ALL STROBES ARE INDICATED ON THE PLANS. ALL NOTIFICATION APPLIANCES IN ALL GUEST SUITE UNITS AND PUBLIC SPACES SHALL BE ACTIVATED BY FLOW SWITCHES, PULL STATIONS, ELEVATOR MACHINE ROOM AND HOISTWAY HEAT AND SMOKE DETECTORS AND DETECTORS IN THE PUBLIC SPACES.
- PROVIDE ADDRESSABLE INPUT MODULES FOR ALL FLOW SWITCHES AND TAMPER SWITCHES. COORDINATE REQUIREMENTS WITH THE FIRE PROTECTION CONTRACTOR. TAMPER SWITCHES MAY NOT BE WIRED NORMALLY CLOSED.
- PROVIDE ADDRESSABLE CONTROL MODULES FOR ALL FAN SHUTDOWNS AND OTHER LIFE SAFETY FUNCTIONS SUCH AS ELEVATOR RECALL AND POWER SHUTDOWN. PROVIDE AN INTERPOSING RELAY WITH 24 VDC COIL CONTROLLED BY THE ADDRESSABLE MODULE AND POWERED BY A SUPERVISED, POWER LIMITED, BATTERY SUPPORTED ACCESSORY CIRCUIT. RELAY CONTACTS SHALL BE RATED FOR 10A INDUCTIVE AT 120 VAC (MINIMUM). RELAYS SHALL BE LOCATED WITHIN 3' OF THE CONTROLLED DEVICE.
- SUBMIT BATTERY POWER CALCULATIONS AND VOLTAGE DROP CALCULATIONS WITH THE ENGINEERED SHOP DRAWINGS. PROVIDE ADDRESSABLE NAC EXTENDER PANELS AS REQUIRED TO SUPPLY ALL NAC CIRCUITS AND ACCESSORY CIRCUITS. ALL NAC CIRCUITS SHALL BE LOADED TO NOT MORE THAN 80% CAPACITY.
- ELEVATOR RECALL AND SHUTDOWN SEQUENCE
 - PROVIDE ADDRESSABLE FIRE ALARM DEVICES FOR ELEVATOR RECALL AND POWER SHUTDOWN AS SHOWN ON THE RISER DIAGRAM. PROGRAM THE FIRE ALARM CONTROL PANEL FOR RECALL AND SHUTDOWN SEQUENCE AS FOLLOWS;
 - ACTIVATION OF SMOKE DETECTORS IN ELEVATOR LOBBIES, ELEVATOR SHAFT OR ELEVATOR MACHINE ROOM SHALL INITIATE RECALL OF THE ELEVATOR.
 - ACTIVATION OF THE SMOKE DETECTOR IN THE GROUND FLOOR ELEVATOR LOBBY SHALL INITIATE RECALL OF THE ELEVATOR TO THE ALTERNATE FLOOR, AS DESIGNATED BY THE ELEVATOR CONTRACTOR.
 - ACTIVATION OF HEAT DETECTORS IN THE ELEVATOR SHAFT OR ELEVATOR MACHINE ROOM SHALL INITIATE SHUNT-TRIP OF THE ELEVATOR POWER CIRCUIT BREAKER.
 - COORDINATE TEMPERATURE RATING AND RESPONSE TIME OF HEAT DETECTORS WITH THE FIRE PROTECTION CONTRACTOR. ENSURE THAT HEAT DETECTORS ACTIVATE AND SHUNT-TRIP FUNCTION IS EXECUTED BEFORE SPRINKLER HEADS DISCHARGE.
 - LOCATE HEAT DETECTORS IN THE MACHINE ROOM AND ELEVATOR SHAFT WITHIN 2'-0" OF THE SPRINKLER HEADS.
- DETECTION CIRCUITS SHALL BE MINIMUM NO. 16 AWG STRANDED COPPER CONDUCTORS INSTALLED IN 1/2" EMT. AUDIOVISUAL ALARM CIRCUITS AND CONTROL WIRING SHALL BE MINIMUM NO. 14 AWG STRANDED COPPER CONDUCTORS INSTALLED IN 1/2" EMT. ALL SPLICES SHALL BE SOLDERED AND TAPPED. WHERE INSTALLED IN HOLLOW DRY WALL PARTITION OR ABOVE SUSPENDED CEILING, MANUFACTURER'S RECOMMENDED POWER LIMITED FIRE ALARM CABLE MAY BE USED WITH SECOND.
- THE SYSTEM SHALL BE CHECKED AND TESTED FOR PROPER OPERATION BY THE MANUFACTURER'S REPRESENTATIVE PRIOR TO FINAL ACCEPTANCE. EACH DEVICE SHALL BE OPERATED AND ADJUSTED FOR PROPER SENSITIVITY. AS PART OF THE FINAL ACCEPTANCE THE SYSTEM SHALL BE DEMONSTRATED FOR PROPER OPERATION IN THE PRESENCE OF THE OWNER'S REPRESENTATIVES.
- PROVIDE COMPLETION DOCUMENTS AS REQUIRED BY NFPA-72.
- THE FIRE ALARM SYSTEM SHALL BE MANUFACTURED BY GENERAL ELECTRIC, NOTIFIER, SIMPLEX-GRINNELL, OR SIEMENS,

No.	Description	Date

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