

## **ELECTRICAL KEY NOTES:**

- CONNECT 120 VOLT SINGLE PHASE WASHING MACHINE. PROVIDE ONE CIRCUIT FOR EACH MACHINE. (MOUNT 40" A.F.F.)
- CONNECT 120 VOLT SINGLE PHASE GAS CLOTHES DRYER. PROVIDE ONE CIRCUIT FOR EACH MACHINE. RUN 3/4" EMT FROM 1ST FLOOR. LAUNDRY ROOM TO ATTIC FOR FUTURE
  - DRYER BOOSTER FAN. (MOUNT 40" A.F.F.)
- 3 ELECTRIC RANGE. PROVIDE NEMA 14-50R 50 AMP 120/208 VOLT SINGLE PHASE RANGE RECEPTACLE AT 6" A.F.F.
- $\underbrace{ \text{4}}_{3/\text{E2.2b}}^{\text{ENTRY CANOPY / EXIT LIGHTS. CONNECT TO EXTERIOR LIGHTING CONTROL SEE DETAIL.}$
- 6 PROVIDE TYPE "V" FIXTURE AND GFI RECEPTACLE IN ELEVATOR PIT. DO NOT CONNECT ON SAME CIRCUIT. MOUNT SWITCH IN PIT. MOUNT FIXTURES TO AVOID CAR.
- 7 PROVIDE 20 AMP ELEVATOR CAB LIGHT FUSED DISCONNECT IN EQUIPMENT ROOM CIRCUITED TO EMERGENCY PANEL. FUSE SIZE PER MANUFACTURER.
- TO EXTERIOR PARKING AREA, PATHWAY AND LANDSCAPE LIGHTING. CIRCUIT TO PANEL VIA EXTERIOR LIGHTING CONTROL SEE SITE PLAN DRAWING(S) FOR LOCATIONS AND
- 9 ELECTRICAL MAIN DISTRIBUTION PANEL. SEE ONE-LINE.
- $\sqrt{\phantom{a}}$  DOMESTIC COLD WATER AND FIRE SPRINKLER SERVICE ENTRANCES FOR GROUNDING. COORDINATE WITH PLUMBING CONTRACTOR.
- EMERGENCY STANDBY ENGINE GENERATOR. SEE SPECIFICATIONS. SEE SITE (E1.0/A1.1)
- PLAN FOR LOCATION. 🔼 AUTOMATIC TRANSFER SWITCH FURNISHED AS PART OF ENGINE GENERATOR PACKAGE. SEE SPECIFICATIONS AND ONE-LINE.
- PROVIDE FUSED DISCONNECT ELEVATOR MODULE WITH INTEGRAL SHUNT-TRIP FOR ELEVATOR MACHINE. COORDINATE FUSE REQUIREMENTS WITH ELEVATOR MANUFACTURER. CONNECT TO FIRE ALARM AND REMOTE SHUNT-TRIP SWITCH. COOPER BUSMAN, EATON ELEVATOR CONTROL SWITCH ES SERIES, OR APPROVED.
- TELEPHONE TERMINAL BOARD. SEE TELEPHONE SECTION OF SPECIFICATIONS. PROVIDE 14) DOUBLE DUPLEX RECEPTACLE MOUNTED ON BACKBOARD AND TWO DEDICATED CIRCUITS AND #6 EQUIPMENT GROUND CONNECTED TO GROUND BUS AT MDP. \ TELEVISION TERMINAL BD. SEE TELEVISION SECTION OF SPECIFICATIONS. PROVIDE
- TELEVISION TERMINAL BD. SEE TELEVISION SECTION OF STREET TO COUNTY OF THE SECTION OF THE SECTION OF STREET TO COUNTY OF THE SECTION OF THE SE CIRCUITS AND #6 EQUIPMENT GROUND CONNECTED TO GROUND BUS AT MDP. \ IRRIGATION CONTROL PANEL. PROVIDE RECEPTACLE ON DEDICATED CIRCUIT.
- AND REQUIREMENTS WITH IRRIGATION CONTRACTOR. POWER DOOR CONNECTED TO ATRIUM SMOKE CONTROL SYSTEM. SEE DETAIL 15/E2.2b AND SEQUENCE OF OPERATION ON E1.7PSEE SPECIFICATION SECTION 16100 FOR ADDITIONAL WIRING REQUIREMENTS.
- 18) INSTALL RECEPTACLE HORIZONTALLY 10 LOCATE FIXTURES IN ATTIC SPACE FOR EACH WING. MOUNT IN AREAS TO PROVIDE LIGHT FOR MAINTENANCE USE. PROVIDE PILOT LIGHT SWITCH AT EACH ACCESS INSIDE OF
- PROVIDE WEATHERPROOF LIGHT FIXTURE AND WEATHERPROOF GFI RECEPTACLE WITHIN 10 FEET OF MECHANICAL EQUIPMENT. COORDINATE LOCATION WITH MECHANICAL.
- KITCHEN MAKE-UP AIR UNIT. ROUTE FAN POWER CONDUCTORS THROUGH SUPPLY VFD#1 LOCATED IN ENERGY MANAGEMENT SYSTEM (EMS) CONTROL PANEL LOCATED ON THE SIDE OF THE KITCHEN HOOD. PROVIDE ONE 3/4" CONDUIT FOR CONTROL WIRING FROM EMS CONTROL PANEL TO MAKE-UP AIR UNIT. PROVIDE TWO SETS OF 2-WIRE 16 AWG SHIELDED MULTI-CONDUCTOR CABLES BETWEEN MAU AND EMS PANEL. DO NOT ROUTE CONTROL CABLE ADJACENT TO HIGH POWER WIRING, COORDINATE WITH KITCHEN HOOD
- SYSTEM SHALL SHUT DOWN MAU. FUSE SIZE PER MANUFACTURER. THRU-WALL HVAC UNIT, SEE MECHANICAL SPECIFICATION. FURNISHED BY OWNER. INSTALLED BY MECHANICAL CONTRACTOR. CONNECTED BY ELECTRICAL CONTRACTOR.
- GAS FIRED WATER HEATERS. CIRCUIT ELECTRICAL GAS WATER HEATER CONNECTIONS TO BACK-UP POWER PANEL.
- HOT WATER RECIRCULATING PUMPS. FRACTIONAL HORSEPOWER 120V SINGLE PHASE. CIRCUIT TO BACK-UP POWER PANEL. 25 AC-1 PACKAGED ROOFTOP GAS PACK AIR CONDITIONING EQUIPMENT. SEE MECHANICAL
- EQUIPMENT SCHEDULE. SEE DETAIL 17/E2.2b. X KITCHEN RANGE HOOD EXHAUST FAN. ROUTE FAN POWER CONDUCTORS THROUGH PEXHAUST VFD#2 LOCATED IN ENERGY MANAGEMENT SYSTEM (EMS) CONTROL PANEL LOCATED ON THE SIDE OF THE KITCHEN HOOD. COORDINATE WITH KITCHEN HOOD VENTILATION CONTROL CONSULTANT DRAWINGS H-2 AND H-4. FUSE SIZE PER
- EF-6/6a. CONNECT TO EMERGENCY PANEL SEE DETAILS ON M4.2. FUSE PER MANUFACTURER AND NEC. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS SPECIFIC TO THIS EQUIPMENT. SEE DETAIL 15/E2.2b.
- AC-2 PACKAGED ROOFTOP GASPACK AIR CONDITIONING EQUIPMENT. SEE MECHANICAL EQUIPMENT SCHEDULE. FUSE PER MANUFACTURER. SEE DETAIL 17/E2.2b.
- $\overline{\langle 30 
  angle}$  COORDINATE LIGHTING WITH EQUIPMENT. CHAIN OR SURFACE MOUNT.
- $\langle$  31angleMOUNT LIGHTS, RECEP., SWITCHES AND TIMERS ON WALL NEXT TO CATWALK. ackslash SF-2 SUPPLY FAN FOR COOLING AND HEATING CORRIDORS. SEE MECHANICAL
- (33)1/12 HP ATTIC FAN ON ROOF. PROVIDE INDIVIDUAL DISCONNECTS. MOUNT FAN CONTROL 12" BELOW ROOF SHEATHING ON WALL NEXT TO CATWALK, SEE DETAIL 8/E2.2b
- QMARK MUH-03-81 RATED 3KW AT 208 VOLT 1 PHASE: SUSPENDED FROM CEILING, CONTROLLED BY REMOTE WALL THERMOSTAT.
- $\langle$  35
  angle 30 AMP 2 POLE CIRCUIT FOR COMBO WASHER & DRYER UNIT.
- ackslash PROVIDE POWER FOR GAS FIRE PLACE PER MANUFACTURER REQUIREMENTS. PROVIDE SWITCH FOR FAN AND IGNITOR.
- $\langle 37 
  angle$ LOCATION OF FUTURE DOOR (DO NOT CIRCUIT (WIRE) IN THIS LOCATION.
- (38) NOT USED
- 30 AREA OF RESCUE ASSISTANCE ANNUNCIATOR, CORNELL 4200 SERIES, WIRE PER MANUFACTURER REQUIREMENTS, NOT LESS THAN #12 AUG. COPPER FOR POWER. PROVIDE BATTERY BACKUP BY MANUFACTURER AND LOCATE ABOVE CEILING IN OFFICE151. SEE 1/E5.1. LABEL ANNUNCIATOR PER AHJ REQUIREMENTS. SYSTEM PROVIDED BY OWNER.
- AREA OF RESCUE CALL STATION. CORNELL 4200 SERIES. CONNECT TO ANNUCIATOR PANEL, IN FOYER, PER MANUFACTURER REQUIREMENTS. SYSTEM PROVIDED BY OWNER. TEMERGENCY CALL REMOTE HEAD END. VERIFY LOCATION AND ELECTRICAL
- REQUIREMENTS WITH GENERAL CONTRACTOR. SHUTDOWN KITCHEN EQUIPMENT AND RECEPTACLE POWER UNDER HOOD UPON 42 ACTIVATION OF ANSUL SYSTEM. SEE KITCHEN DRAWINGS.
- (43) OWNER SUPPLIED WATER SOFTENER. CONTRACTOR TO INSTALL.  $\langle$  44angle FRACTIONAL HP FAN MOTOR, 120V. CONNECT TO SWITCHED LEG OF LIGHTING CIRCUIT.
- ⟨45⟩PROVIDE GFI BREAKER.  $\langle$  46
  angle KITCHEN WALK-IN FREEZER & COOLER CONDENSING UNITS. REFER TO KITCHEN PLANS.
- FIRE/SMOKE DAMPER CONNECTION. CIRCUIT TO BACK-UP POWER PANEL. SEE DETAIL 12/E2.2b. DO NOT CONNECT MORE THEN SEVEN FSD'S TO EACH CIRCUIT. EMERGENCY CALL SYSTEM BACK BOARD, PROVIDE RECEPTACLE ON DEDICATED CIRCUIT.
- BROAN MODEL 154 LOW PROFILE CEILING HEATER. 120 VOLT, 1,250 WATTS. WITH MODEL
- / 86W LINE-VOLTAGE THERMOSTAT.
- $\langle$  51angle PROVIDE UN-SWITCHED/UNCONTROLLED HOT TO EXIT SIGNS, TYPICAL.
- (52) WIRE ATTIC LIGHTS TO EMERGENCY CIRCUIT.
- PROVIDE #6 CU GROUND WIRE FOR P.A. SYSTEM TO BUILDING GROUND IN MECHANICAL. (54) ELECTRIC DRYER-VERIFY ELEC. REQUIREMENTS.
- WIRE FOR FUTURE THRU-WALL PTAC UNIT TO REPLACE BASEBOARD IN "C" UNIT BEDROOMS, SEE DETAIL "C-UNIT, TYPICAL." ON E5.X SERIES. DO NOT CIRCUIT (WIRE) IN
- $\langle$  56 $\rangle$  PROVIDE EMERGENCY POWER SWITCH/DIMMER BYPASS RELAY. SEE DETAIL 5/E2.2b.
- (57) PROVIDE SEPARATE BOX FOR EMERGENCY CIRCUIT.
- $\langle 58 \rangle$  CONNECT VIA LIGHTING CONTROLLER. SEE DETAIL 3/E2.2b.
- $ilde{ackslash}$  SINGLE POINT POWER CONNECTION. PROVIDE CONNECTION TO EXTERIOR CONDENSING
- / UNIT. SEE MECHANICAL.
- PROVIDE CONDUCTORS FOR BASEBOARD CONNECTIONS. INCLUDE REMOTE THERMOSTAT WIRING. ONLY HEAT AND FAN TO OPERATE WHEN EMERGENCY POWER IS IN OPERATION. PROVIDE DUAL CONNECTION TO UNIT, MECHANICAL UNIT MODIFICATIONS IS NOT
- ACCEPTABLE. SEE MECHANICAL.  $\langle 62 \rangle$  PROVIDE CF-1 CEILING FAN WITH SEPARATE SWITCH FOR FAN AND LIGHT. SEE E5

FOURTH FLOOR - POWER

DATE

8/28/2015

**REVISED DATE** 1 9/22/2015

SHEET