FIRST FLOOR - LIGHTING

CONSULT FINISH SCHEDULE FOR CEILING TYPE IN COMMON AREAS. COORDINATE FIXTURE TYPE AND MOUNTING WITH CEILING TYPE SEE LIGHT FIXTURE PROTECTION DETAIL ON 6/E2.2b AND TYPICAL FOR RECESSED LIGHT

FIXTURES AND EXHAUST FANS IN FIRE RATED CEILINGS. MODIFY DETAIL AS NEEDED TO MATCH UNIT INSTALLED

PENETRATIONS OF FIRE RATED CONSTRUCTION OR DRAFT STOP CONSTRUCTION TO BE INSTALLED AND PROTECTED AS REQUIRED BY LOCAL CODES AND BUILDING AUTHORITY. SEE ELECTRICAL CONTRACTOR RESPONSIBLE FOR DETERMINING NUMBER AND SIZE OF

CONDUCTORS, GROUND, AND NEUTRAL WIRES, SEE PANEL SCHEDULES FOR MIN. SIZES. COORDINATE MECHANICAL EQUIPMENT ELECTRICAL CONNECTIONS WITH MECHANICAL DRAWINGS AND EQUIPMENT FURNISHED. VERIFY LOCATIONS, CHARACTERISTICS AND LOADS, AND ADJUST WIRE AND BREAKER SIZES AS NEEDED. CONNECT PERIPHERALS AND INTERLOCK WITH OTHER MECHANICAL EQUIPMENT AS SHOWN ON MECHANICAL DRAWINGS OR AS REQUIRED.

PROVIDE DUCT SMOKE (PHOTO TYPE) DETECTORS AT RETURN OF AIR HANDLING EQUIPMENT IF REQUIRED BY LOCAL CODE.

REMOTE RESET LIGHT/ALARM IN CORRIDOR WALL CLOSEST TO UNIT. CONNECT SMOKE DETECTOR OUTPUT TO FIRE ALARM PANEL.

CONNECT DUCT SMOKE DETECTORS TO SHUT DOWN AIR HANDLING UNIT AND PROVIDE

CONNECT CORRIDOR NON-EMERGENCY LIGHTING THROUGH AUTOMATIC LIGHTING CONTROLLER LOCATED IN MECHANICAL ROOM.

PROVIDE LINK SEAL LINK SLEEVE AT BUILDING ELECTRICAL PENETRATIONS IN FOUNDATION OR WHERE EXPOSED TO EARTH/ELEMENTS. PROVIDE WARNING SIGN AT DISCONNECTS THAT SERVE EQUIPMENT LOCATIONS WITH MORE

## **ELECTRICAL KEY NOTES:**

CONNECT 120 VOLT SINGLE PHASE WASHING MACHINE, PROVIDE ONE CIRCUIT 1 FOR EACH MACHINE. (MOUNT 40" A.F.F.)

CONNECT 120 VOLT SINGLE PHASE GAS CLOTHES DRYER, PROVIDE ONE CIRCUIT 2 FOR EACH MACHINE. RUN 3/4" EMT FROM 1ST FLOOR. LAUNDRY ROOM TO ATTIC

FOR FUTURE DRYER BOOSTER FAN. (MOUNT 40" A.F.F.)

ELECTRIC RANGE. PROVIDE NEMA 14-50R 50 AMP 120/208 VOLT SINGLE PHASE RANGE RECEPTACLE AT 6" A.F.F.

ENTRY CANOPY / EXIT LIGHTS. CONNECT TO EXTERIOR LIGHTING CONTROL

SEE DETAIL. 3/E2.2b ↑ PROVIDE A 30-AMPERE, 120-VOLT CIRCUIT WITH A NEMA L5-20R RECEPTACLE INSTALLED AT

THE STANDPIPE RISER, SUPPLIED FROM THE EMERGENCY PANEL. THE WIRING SHALL BE IN METAL CONDUIT WITH APPROPRIATE GALVANIZED BOXES AND WITH WEATHERPROOF GASKETED FLAP-DOOR COVER, RECEPTACLE SHALL BE MOUNTED AS HIGH AS THE STANDPIPE AND WITHIN 2'. EACH OUTLET BOX MUST BE PAINTED "FIRE-ALARM RED" IN COLOR AND BE MARKED "ONLY FOR FIRE DEPARTMENT USE."

 $\binom{6}{6}$  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 20AMP 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 QUANTITIES. 9 ELECTRICAL MAIN DISTRIBUTION PANEL. SEE ONE-LINE.

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 DOUBLE DUPLEX RECEPTACLE MOUNTED ON BACKBOARD AND TWO

DEDICATED CIRCUITS AND #6 EQUIPMENT GROUND CONNECTED TO GROUND

TELEVISION TERMINAL BD. SEE TELEVISION SECTION OF SPECIFICATIONS. PROVIDE DOUBLE DUPLEX RECEPTACLE MOUNTED ON BACKBOARD AND TWO DEDICATED CIRCUITS AND #6 EQUIPMENT GROUND CONNECTED TO GROUND BUS AT MDP. IRRIGATION CONTROL PANEL. PROVIDE RECEPTACLE ON DEDICATED CIRCUIT.
STUB OUT A 2" PVC CONDUIT TO EXTERIOR OF BUILDING. COORDINATE LOCATION

AND REQUIREMENTS WITH IRRIGATION CONTRACTOR. POWER DOOR CONNECTED TO ATRIUM SMOKE CONTROL SYSTEM. SEE DETAIL 15/E2.2b AND SEQUENCE OF OPERATION ON E1.7P SEE SPECIFICATION SECTION

16100 FOR ADDITIONAL WIRING REQUIREMENTS. 18 INSTALL RECEPTACLE HORIZONTALLY.

LIGHT FOR MAINTENANCE USE. PROVIDE PILOT LIGHT SWITCH AT EACH ACCESS

LOCATE FIXTURES IN ATTIC SPACE FOR EACH WING. MOUNT IN AREAS TO PROVIDE

PROVIDE WEATHERPROOF LIGHT FIXTURE AND WEATHERPROOF GFI RECEPTACLE WITHIN 10 FEET OF MECHANICAL EQUIPMENT. COORDINATE LOCATION WITH

KITCHEN MAKE-UP AIR UNIT. ROUTE FAN POWER CONDUCTORS THROUGH SUPPLY VFD#1 21 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 VENTILATION CONTROL CONSULTANT DRAWINGS H-3 AND H-4. ACTIVATION OF ANSUL 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. 🔍 AC-1 PACKAGED ROOFTOP GAS PACK AIR CONDITIONING EQUIPMENT. SEE MECHANICAL

EQUIPMENT SCHEDULE. SEE DETAIL 17/E2.2b. \ KITCHEN RANGE HOOD EXHAUST FAN. ROUTE FAN POWER CONDUCTORS THROUGH EXHAUST 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 MANUFACTURER

27 NOT USED

EF-6/6a. CONNECT TO EMERGENCY PANEL SEE DETAILS ON M4.2. FUSE PER 28 MANUFACTURER AND NEC. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS SPECIFIC TO THIS EQUIPMENT, SEE DETAIL 15/E2.2b

 $\langle 29 \rangle$  AC-2 PACKAGED ROOFTOP GASPACK AIR CONDITIONING EQUIPMENT. SEE MECHANICAL EQUIPMENT SCHEDULE. FUSE PER MANUFACTURER. SEE DETAIL 17/E2.2b.

 $\langle 30 
angle$ COORDINATE LIGHTING WITH EQUIPMENT. CHAIN OR SURFACE MOUNT.

 $race{31}{mount Lights, Recep., Switches and Timers on Wall NEXT TO CATWALK.}$ 

SF-2 SUPPLY FAN FOR COOLING AND HEATING CORRIDORS. SEE MECHANICAL EQUIPMENT SCHEDULE FOR DESCRIPTION. SEE DETAIL 17/E2.2b. (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.

 $\langle 35 \rangle$ 30 AMP 2 POLE CIRCUIT FOR COMBO WASHER & DRYER UNIT.

 $\langle$  36 angle Provide power for electric fire place per manufacturer requirements.

(37)LOCATION OF FUTURE DOOR (DO NOT CIRCUIT (WIRE) IN THIS LOCATION.

(38) NOT USED

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 LOCATED IN CLOSET IN OFFICE151. SEE 1/E5.1. LABEL ANNUNCIATOR PER AHJ REQUIREMENTS. SYSTEM PROVIDED BY

AREA OF RESCUE CALL STATION. CORNELL 4200 SERIES. CONNECT TO ANNUCIATOR PANEL, IN FOYER, PER MANUFACTURER REQUIREMENTS. SYSTEM PROVIDED BY OWNER. EMERGENCY CALL REMOTE HEAD END. VERIFY LOCATION AND ELECTRICAL REQUIREMENTS WITH GENERAL CONTRACTOR.

N SHUTDOWN KITCHEN EQUIPMENT AND RECEPTACLE POWER UNDER HOOD UPON  $\langle ^{42} \rangle$  ACTIVATION OF ANSUL SYSTEM. SEE KITCHEN DRAWINGS. ↑ GFI RECEPTACLE @ +48 FOR WATER SOFTENER, CONNECT TO DEDICATED 120V

CIRCUIT. 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. THE SMOKE DAMPER CONNECTION. CIRCUIT TO BACK-UP POWER PANEL. SEE DETAIL  $\binom{47}{12}$ 12/E2.2b. DO NOT CONNECT MORE THEN SEVEN FSD'S TO EACH CIRCUIT.

EMERGENCY CALL SYSTEM BACK BOARD. PROVIDE RECEPTACLE ON DEDICATED CIRCUIT.

(49) NOT USED BROAN MODEL 154 LOW PROFILE CEILING HEATER. 120 VOLT, 1,250 WATTS. WITH MODEL

/ 86W LINE-VOLTAGE THERMOSTAT.  $\langle 51 
angle$ 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. DATE /ROOM.

 $\langle$  54 angle ELECTRIC DRYER-VERIFY ELEC. REQUIREMENTS.

\ WIRE FOR FUTURE THRU-WALL PTAC UNIT TO REPLACE BASEBOARD IN "C" UNIT (55) BEDROOMS, SEE DETAIL "C-UNIT, TYPICAL." ON E5.X SERIES. DO NOT CIRCUIT (WIRE) IN

 $\langle 56 
angle$ PROVIDE EMERGENCY POWER SWITCH/DIMMER BYPASS RELAY. SEE DETAIL 5/E2.2b.

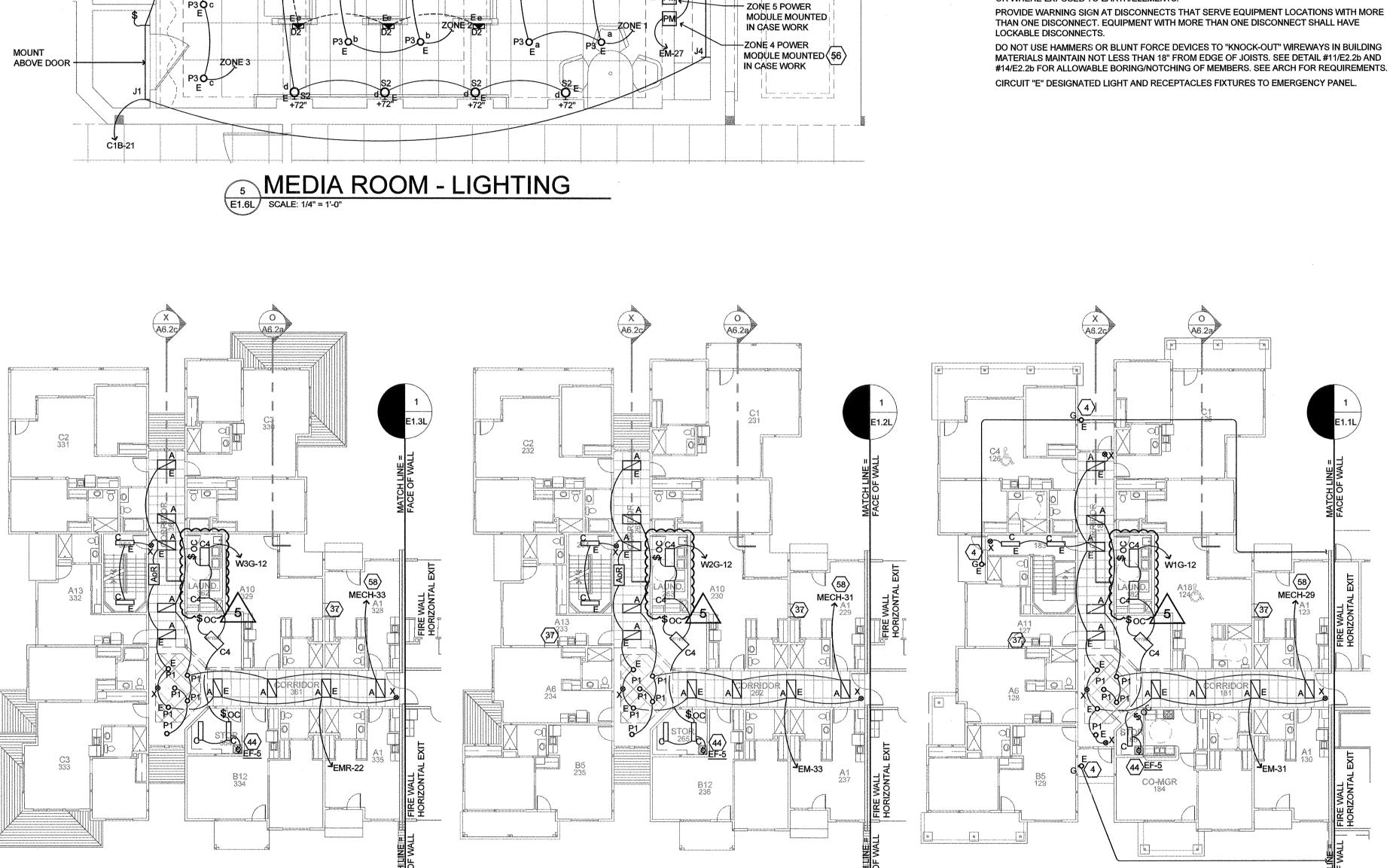
 $\langle 57 \rangle$ PROVIDE SEPARATE BOX FOR EMERGENCY CIRCUIT.

(58) CONNECT VIA LIGHTING CONTROLLER. SEE DETAIL 3/E2.2b.

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. ACCEPTABLE. SEE MECHANICAL.

PROVIDE DUAL CONNECTION TO UNIT. MECHANICAL UNIT MODIFICATIONS IS NOT  $\langle 62 \rangle$  PROVIDE CF-1 CEILING FAN WITH SEPARATE SWITCH FOR FAN AND LIGHT. SEE E5



LUTRON GRAFIK EYE

WITH 6-ZONES AND

1-CURTIAN ZONE.

LIGHTING CONTROLLER

MODEL QSGRJ-6P-1TWH

SEE DETAIL 13/E2.2b.

ZONE 5

TO CONTROLLER

MOUNT

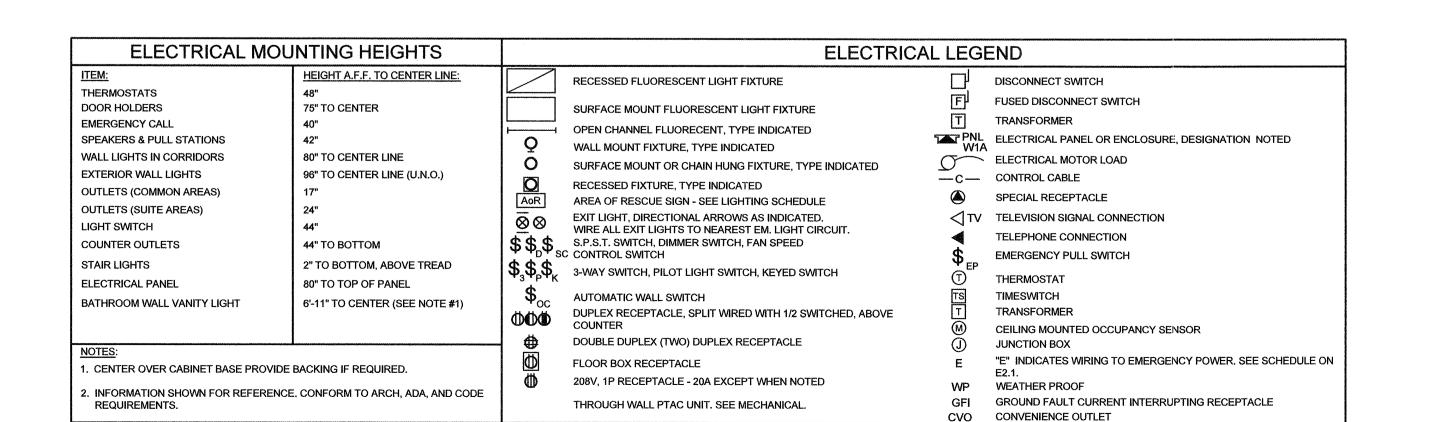
ABOVE DOOR

THIRD FLOOR - LIGHTING

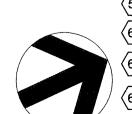
SCALE: 1/16" = 1'-0"

FOURTH FLOOR - LIGHTING

SCALE: 1/16" = 1'-0"



SECOND FLOOR - LIGHTING





TIRE

8/28/2015 REVISED DATE

9/22/2015 2 2/2/2016 <u>5</u>7/18/2016

SHEET