

GENERAL NOTES:

- ALL CONDUITS ARE SHOWN DIAGRAMMATICALLY. EXACT RUNS SHALL BE DETERMINED IN FIELD EXCEPT WHERE SPECIFICALLY DIMENSIONED ON CONDUIT LAYOUTS. CONTRACTOR SHALL FOLLOW MINIMUM SPACING REQUIREMENTS TO REDUCE ELECTROMAGNETIC INTERFERENCE. COORDINATE CONDUIT ROUTING WITH ALL OTHER TRADES.
- ALL EXPOSED CONDUIT SHALL BE RUN PARALLEL TO BUILDING WALLS AND BEAMS EXCEPT WHERE OTHERWISE SHOWN. CONTRACTOR SHALL INSTALL CONDUIT IN SUCH A MANNER TO AVOID ALL INTERFERENCES.
- DEFLECTION/EXPANSION FITTINGS SHALL BE PROVIDED WHERE RIGID METAL CONDUIT CROSSES STRUCTURAL EXPANSION JOINTS.
- EXPOSED CONDUIT SHALL BE SUPPORTED ON WALLS OR CEILINGS BY APPROVED HANGERS OF ANGLE OR CHANNEL CONSTRUCTION. CONDUITS SHALL BE SUPPORTED AT 8' MAXIMUM SPACING.
- ALL SPARE CONDUITS SHALL BE TERMINATED AS SHOWN ON CONDUIT LAYOUTS AND SHALL BE CAPPED 3" ABOVE FINISHED FLOOR.
- NO CONDUIT SHALL BE SMALLER THAN 3/4" UNLESS NOTED OTHERWISE ON PLANS.
- EXACT CONDUIT SUB-UP LOCATIONS ARE TO BE DETERMINED BY THE ELECTRICAL CONTRACTOR BASED ON CERTIFIED MANUFACTURER'S DRAWINGS OF THE RESPECTIVE EQUIPMENT. CONDUIT SHALL BE INSTALLED TO AGREE WITH EQUIPMENT FURNISHED.
- ALL LIGHTING WIRING SHALL BE #12AWG, UNLESS OTHERWISE NOTED. THE NUMBER OF WIRES SHOWN ON THE DRAWINGS IS NOT NECESSARILY THE CORRECT NUMBER REQUIRED. THE CONTRACTOR SHALL INSTALL AS MANY AS ARE NECESSARY FOR PROVIDING A COMPLETE ELECTRICAL SYSTEM IN EACH CASE.
- CONDUITS PASSING THROUGH BUILDING FLOORS OR WALLS BELOW GRADE ARE TO BE INSTALLED WITH WATERIGHT THRU WALL CONDUIT SEAL FITTINGS. THE FOLLOWING:
- EQUIPMENT FURNISHED BY OTHERS SHALL BE INSTALLED & ENERGIZED BY THE ELECTRICAL CONTRACTOR.
- ONLY CONDUITS HAVING OUTSIDE DIAMETERS NO LARGER THAN ONE-THIRD OF THE THICKNESS OF SLAB MAY BE INSTALLED WITHIN THE CONCRETE SLABS.
- CONDUITS IN STRUCTURAL SLABS ARE TO BE SPACED SO AS TO PROVIDE NO LESS THAN THREE CONDUIT DIAMETERS, CENTER TO CENTER, WHEREVER POSSIBLE. LARGER SPACING IS PREFERRED.
- CONTINUOUS ROWS OF CONDUITS ARE NOT TO BE PLACED IMMEDIATELY ALONG BEARING ENDS OF SLABS.
- THE ELECTRICAL CONTRACTOR SHALL NOT ENDANGER THE STABILITY OF THE STRUCTURE OR ANY PART THEREOF BY CUTTING, DRILLING OR OTHERWISE, AND SHALL NOT IN ANY WAY CUT OR ALTER THE WORK OF ANY OTHER CONTRACTOR, EXCEPT WITH THE WRITTEN CONSENT OF AND UNDER THE DIRECTION OF THE ARCHITECT AND/OR GENERAL CONTRACTOR.
- THE ELECTRICAL CONTRACTOR SHALL SECURE ALL APPROVALS AND CERTIFICATES AND PAY ALL WORK INSTALLED. CERTIFICATES SHALL BE DELIVERED TO THE GENERAL CONTRACTOR BEFORE FINAL PAYMENT WILL BE MADE.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST APPLICABLE VERSION OF THE NEC AS WELL AS ALL STATE AND LOCAL CODES.
- THE DRAWINGS INDICATE AND THE SPECIFICATIONS DESCRIBE THE GENERAL ARRANGEMENTS AND LOCATION OF OUTLET BOXES, ETC. THE CONTRACTOR SHALL, WITHOUT EXTRA COST TO THE OWNER, MAKE ALL REASONABLE MODIFICATIONS IN THE WORK AS MAY BE REQUIRED TO PREVENT CONFLICT WITH EXISTING CONDITIONS, THE WORK OF OTHER TRADES AND FOR THE PROPER INSTALLATION OF THE WORK.
- ARRANGE FOR SITE VISIT WITH THE BLDG. OWNER REPRESENTATIVE AND GENERAL CONTRACTOR.
- CLAIMS FOR ADDITIONAL COMPENSATION ARISING DUE TO THE FAILURE OF THE CONTRACTOR TO FULLY UNDERSTAND THE SITE CONDITIONS SHALL NOT BE PAID FOR BY ANY OTHER PARTY.
- LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. CONDUIT OVER 10 FEET IN WHICH WIRING IS NOT INSTALLED-FURNISH PULL STRING.
- DO NOT PULL THERMOPLASTIC WIRES AT TEMPERATURES LOWER THAN 32 DEG F (0 DEG C). PROVIDE CABLE SUPPORTS FOR WIRE IN RISER CONDUITS AS REQUIRED BY CODE.
- LOCATIONS INDICATED FOR LOCAL WALL SWITCHES ARE SUBJECT TO MODIFICATIONS AT OR NEAR DOORS. INSTALL SWITCH ON SIDE OPPOSITE HINGE. VERIFY FINAL DOOR HINGE LOCATION IN FIELD PRIOR TO SWITCH OUTLET INSTALLATION.
- JUNCTION & PULL BOXES: DO NOT LOCATE EXPOSED IN FINISH SPACES UNLESS REQUIRED BY NEC, WHERE NECESSARY. REROUTE CONDUIT OR MAKE OTHER ARRANGEMENTS FOR CONCEALMENT. PROVIDE PULL BOXES AS INDICATED AND WHEREVER NECESSARY TO FACILITATE PULLING OF WIRE AND COORDINATE LOCATIONS WITH OTHER TRADES. COVERED, JUNCTION AND PULL BOXES SHALL BE ACCESSIBLE. PROVIDE EMPTY CONDUIT. INSTALL PULL BOXES EVERY 100 FEET AND AS INDICATED. COORDINATE LOCATIONS WITH OTHER TRADES.
- SUPPORT PANEL, JUNCTION & PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO CONDUIT BEARING ON CONDUIT.
- ALL ACCESS DOOR LOCATIONS SHALL BE REVIEWED BY ARCHITECT PRIOR TO INSTALLATION.
- FOR EACH LOCATION OF OTHER TRADES EQUIPMENT, SEE RESPECTIVE TRADE DRAWINGS.
- FOR RECEPTACLE & OUTLETS MOUNTING HEIGHTS AND POSITION (HORIZONTAL, VERTICAL), COORDINATE WITH ARCHITECT, OWNER, REPRESENTATIVE & DATA/ COMMUNICATION CONSULTANT.
- CONTRACTOR SHALL PROVIDE AND INSTALL ALL COMPONENTS INDICATED ON DETAILS SHEETS, PLANS, SPECIFICATIONS AND ALL PERTINENT EQUIPMENT REQUIRED FOR A COMPLETE WORKABLE SYSTEM.
- USE OF ISOLATED TYPE GROUNDING CONDUCTOR FOR IG TYPE RECEPTABLES, PLUG MOLDS & EQUIPMENT DOES NOT RELIEVE REQUIREMENT FOR GROUNDING CONDUIT SYSTEMS. DEVICES AND EQUIPMENT AS REQUIRED BY ALL APPLICABLE CODES. PROVIDE AND INSTALL GROUNDING FITTING, EQUIPMENT GROUND WIRING ETC. AS REQUIRED.
- ALL CONDUITS, TRANSFORMERS ETC. SHALL BE SUPPORTED FROM STRUCTURAL STEEL ONLY. COORDINATE WITH GENERAL CONTRACTOR.
- ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT IN ELECTRICAL AND SERVICE SWITCHBOARD ROOM SHALL BE INSTALLED ON 4" X 6" WOOD JOIST AS REQUIRED TO SUPPORT EACH SECTION ON EQUIPMENT. COORDINATE WITH GENERAL CONTRACTOR.
- PROVIDE BARRIERS IN ALL PULL BOXES FOR CONDUIT SEITS.
- PAINT AND RUST PROOF ALL HARDWARE & CONDUITS ON ROOF AND IN EXPOSED AREAS AS DIRECTED BY GENERAL CONTRACTOR.
- NUMBER SHOWN ADJACENT TO LIGHTING FIXTURES, RECEPTABLES, OUTLETS, JUNCTION BOXES ETC. INDICATES CIRCUIT NUMBER.
- ALL GROUND CONNECTIONS TO THE BUILDING STEEL SHALL BE EXOTHERMIC WELDED.
- FLEXIBLE CONNECTIONS IN EXPOSED AREAS SHALL NOT EXCEED 18" MAXIMUM.
- ALL EQUIPMENT DEVICES, WIRING, ETC. SHOWN ON THE DRAWINGS IS NEW UNLESS OTHERWISE NOTED.
- ELECTRICAL CONTRACTOR SHALL PROVIDE SLEEVES/ OPENINGS FOR ALL CONDUIT RISERS PENETRATING WALLS, ROOF & FLOOR SLABS. ALL ROOF AND MECH. ROOMS SLAB PENETRATIONS SHALL BE WATERPROOF. METHOD OF PENETRATIONS & FIRE/WATER WATER PROOFING SHALL BE APPROVED BY ARCHITECT AND STRUCTURAL ENGINEER. COORDINATE WITH GENERAL CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL BECOME FAMILIAR AND COMPLY WITH OWNERS BUILDING STANDARDS FOR CONSTRUCTION.
- ALL FINAL CONNECTIONS TO VIBRATING EQUIPMENT (MOTORS, GENERATORS ETC.) SHALL BE THROUGH A LIQUID TIGHT FLEXIBLE METAL CONDUIT.
- LOCATION OF ALL SLAB PENETRATIONS FOR SLEEVES & CONDUITS SHALL BE REVIEWED & APPROVED BY STRUCTURAL ENGINEER & ARCHITECT.
- CONTRACTOR SHALL WIRE NO MORE THAN EIGHT CONVENIENCE RECEPTABLES TO A 20A SINGLE POLE CIRCUIT, UTILIZE 2-#12#1 #12 GND IN 3/4" CONDUIT & 1-20A SINGLE POLE CIRCUIT BREAKER FOR EACH CIRCUIT. INSTALL ADDITIONAL CIRCUIT AS NECESSARY TO MEET THIS REQUIREMENT.
- ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE SEALED FIRE AND SMOKE TIGHT WITH AN APPROPRIATE U.L. LISTED FIRESTOPPING MATERIAL AND OR SYSTEM.
- THE TERMS "PROVIDE" OR "FURNISH", AS USED ON THESE PLANS, INDICATE THAT THE CONTRACTOR IS TO FURNISH AND INSTALL THE REFERENCED EQUIPMENT OR SYSTEMS IN THEIR ENTIRETY AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
- CONTRACT CLOSE OUT, IN THE PRESENCE OF THE OWNER, ENGINEER OR ARCHITECT, DEMONSTRATING OPERATION OF SYSTEMS AND THAT ALL SPECIFICATIONS HAVE BEEN MET TO THE SATISFACTION OF ALL PARTIES.
- IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS TO PROVIDE NEW CONSTRUCTION AS INDICATED ON THE DRAWINGS AND IN THE SPECIFICATIONS TO PROVIDE CONTROL, NEW SYSTEMS IN EVERY RESPECT, CAPABLE OF OPERATING AS DESIGNED. IT IS NOT INTENDED THAT EVERY FITTING, MINOR DETAIL OR FEATURE BE SHOWN ON DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DETAIL NECESSARY FOR COMPLETION OF THESE SYSTEMS IN ACCORDANCE WITH GOOD PRACTICE.

ELEVATOR(S) - PHASE I EMERGENCY RECALL OPERATION:

- THE FIRE ALARM SYSTEMS, AS INDICATED ON THESE PLANS, WHICH ARE NECESSARY FOR PHASE I EMERGENCY RECALL OPERATION OF THE ELEVATOR(S), HAVE BEEN DESIGNED IN CONFORMANCE WITH ASME A17.1-2013, SAFETY CODE FOR ELEVATORS AND ESCALATORS (A17.1).
- FIRE ALARM INITIATING DEVICES REQUIRED FOR INITIATION OF PHASE I EMERGENCY RECALL OPERATION SHALL BE FURNISHED AND INSTALLED (FURNISHED) AS FOLLOWS:
 - IN THE ELEVATOR LOBBY AT EACH FLOOR SERVED BY THE ELEVATOR.
 - IN THE ASSOCIATED ELEVATOR MACHINE ROOM, CONTROL SPACE OR CONTROL ROOM.
 - IN THE ELEVATOR HOISTWAY (SPRINKLERS AND/OR AN AUTOMATIC SMOKE VENT ARE LOCATED IN THE ELEVATOR HOISTWAY).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONNECTING THE FIRE ALARM INITIATING DEVICES TO THE FIRE ALARM PANEL, PROGRAMMING, FURNISHING OUTPUTS TO THE ELEVATOR CONTROLLER AND FURNISHING ADDITIONAL RELAYS, CONTROL BOARDS, POWER SUPPLIES, BATTERIES, AND ANY OTHER ACCESSORIES THAT MAY BE REQUIRED FOR THE CORRECT EXECUTION OF PHASE I EMERGENCY RECALL OPERATION OF THE ELEVATOR(S), AS DESCRIBED IN A17.1, SUBPART 2.27.3.1 PHASE I EMERGENCY RECALL OPERATION.
- FUNCTIONS OF THE PHASE I EMERGENCY RECALL OPERATION (RECALL) SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING:
 - RECALL SHALL BE INITIATED UPON ACTIVATION OF A FIRE ALARM INITIATING DEVICE LOCATED IN ONE OF THE FOLLOWING:
 - (1) ONE OF THE ELEVATOR LOBBIES.
 - (2) IN THE ELEVATOR MACHINE ROOM.
 - (3) IN THE ELEVATOR HOISTWAY.
 - RECALL SHALL BE INITIATED IF THE FIRE ALARM SYSTEM GOES INTO ALARM.
 - UPON RECALL INITIATION THE ELEVATOR CAR SHALL RETURN NONSTOP TO THE DESIGNATED LEVEL OF DISCHARGE.
 - D. UPON RECALL, IF THE INITIATING DEVICE AT THE LEVEL OF DISCHARGE IS IN ALARM THE ELEVATOR CAR SHALL RETURN NONSTOP TO AN ALTERNATE DESIGNATED LEVEL OF DISCHARGE.
 - E. UPON RECALL A VISUAL SIGNAL (FIRE FIGHTER'S HAT) IN THE ELEVATOR CAR SHALL ILLUMINATE.

ELEVATOR RECALL SEQUENCE OF OPERATION:

- ELEVATOR RECALL SHALL BE INITIATED UPON ACTIVATION OF AN AREA SMOKE DETECTOR LOCATED IN ONE OF THE ELEVATOR LOBBIES OR IN THE ELEVATOR MACHINE ROOM.
- ELEVATOR RECALL SHALL ALSO BE INITIATED UPON ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM.
 - UPON ACTIVATION OF THE BUILDING FIRE ALARM SYSTEM A SIGNAL SHALL BE TRANSMITTED FROM THE FIRE ALARM CONTROL PANEL TO THE ELEVATOR CONTROL PANEL TO INITIATE ELEVATOR RECALL.
- UPON INITIATION OF THE ELEVATOR RECALL SEQUENCE THE ELEVATOR CAR SHALL RETURN NONSTOP TO THE DESIGNATED LEVEL OF DISCHARGE. IF THE ELEVATOR SMOKE DETECTOR AT THE DESIGNATED LEVEL OF DISCHARGE IS ACTIVATED THEN THE ELEVATOR CAR SHALL BE SENT TO AN ALTERNATE LEVEL.

FIRE ALARM NOTES:

- REFER TO THE FLOOR PLANS FOR LOCATION & QUANTITY OF FIRE ALARM DEVICES.
- ALL FIRE ALARM WIRING SHALL BE IN TEFLON WIRE AND SHALL BE CONCEALED IN CEILING SPACES & WALLS.
- SYSTEM SCHEMATIC IS A DIAGRAMMATIC REPRESENTATION OF THE FIRE ALARM SYSTEM. THE SYSTEM SHALL BE INSTALLED AND TESTED AS PER THE SYSTEM MANUFACTURER'S RECOMMENDATION FOR A COMPLETE AND OPERABLE SYSTEM.
- CONTRACTOR IS RESPONSIBLE FOR ALL PLUMB AND FINAL INSPECTION AS PER THE LOCAL AUTHORITY HAVING JURISDICTION.
- CONTRACTOR TO PROVIDE AND INSTALL ALL NECESSARY MODULES, INTERFACE MODULES AND DEVICES REQUIRED TO PROVIDE AN OPERABLE ALARM SYSTEM IN COMPLIANCE WITH ALL CODES.
- FIRE ALARM PANEL SHALL PROVIDE CONTINUOUSLY SUPERVISED MONITORING OF ALL SYSTEMS FOR OPENS, SHORTS AND GROUNDS.
- ACTIVATION OF THE SMOKE DETECTORS SHALL CAUSE A GENERAL ALARM AFTER THE SMOKE DETECTOR PERFORMS VERIFICATION.
- ACTIVATION OF ANY PULL STATION OR HEAT DETECTOR SHALL IMMEDIATELY CAUSE THE ALARM PANEL TO ENTER THE ALARM MODE.
- UPON ENTERING THE PANEL ALARM MODE, THE ALARM INDICATING DEVICE SHALL BE ACTIVATED, AND THE SUPPLY FANS SHALL SHUT-DOWN AND THE DIGITAL COMMUNICATOR SHALL NOTIFY THE CENTRAL RECEIVING STATION.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY ADDITIONAL RELAY DEVICES OR POWER TRANSFORMERS FOR PROPER OPERATION OF THE FAN SHUT-DOWN UNITS AND OTHER RELATED DEVICES.
- BATTERY BACKUP SHALL PROVIDE A MINIMUM OF 24 HRS. OPERATION WITH A 15 MINUTE ALARM AT THE END OF 24 HRS.
- NEW FIRE ALARM SYSTEM SHALL BE TESTED IN ACCORDANCE WITH NFPA CODES 70, 70E, 72, BCNYS, FCNYS, LSC101 NEW BOARD AND CARE OCCUPANCY AS WELL AS ALL LOCAL AND STATE CODE REQUIREMENTS.
- CONTRACTOR SHALL PROVIDE ALL ADDITIONAL APPURTENANCES AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM. MODEL NUMBERS GIVEN MAY NOT INCLUDE ALL SPECIFIC REQUIRED ACCESSORIES FOR COMPLETE INSTALLATION.
- PROVIDE APPURTENANCES NECESSARY SUCH THAT IF MORE THEN TWO STROBES ARE VISIBLE THEY SHALL FLASH IN SYNCH.
- STROBES MUST BE PLACED 15' FROM THE END OF ANY CORRIDOR.
- ENTIRE FIRE DETECTION AND ALARM SYSTEM SHALL BE FURNISHED AND INSTALLED BY A N.Y. STATE LICENSED ALARM CONTRACTOR.
- FIRE ALARM PANEL SHALL BE PROVIDED WITH A REMOTE DIALER WITH (2) DIRECT CONNECTIONS TO THE LOCAL COUNTY FIRE CONTROL CENTER.
- FIRE ALARM CONTRACTOR SHALL INTERCONNECT CO DETECTORS WITH THE NEW FIRE ALARM SYSTEM FOR PRIMARY POWER AND BATTERY BACKUP. CO ALARM SHALL ANNUNCIATE AS A SUPERVISORY CONDITION.
- ALL AIR HANDLING SYSTEMS RATED 2,000 CFM OR MORE SHALL BE PROVIDED WITH FAN SHUTDOWNS CONNECTED TO THE FIRE ALARM SYSTEM.
- PROVIDE REMOTE BOOSTER POWER SUPPLIES ON EACH FLOOR AS NECESSARY FOR A COMPLETE OPERABLE SYSTEM. POWER FROM THE LOCAL POWER PANEL AND PROVIDE BATTERY BACKUP.

SWITCHBOARDS, PANEL BOARDS, INDUSTRIAL CONTROL PANELS, METER SOCKET ENCLOSURES, AND MOTOR CONTROL CENTERS ARE TO BE PROVIDED BY THE EXAMINATION, ADJUSTMENT SERVICING OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRIC ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

LIGHTING SYMBOLS

- CEILING MOUNTED OCCUPANCY SENSOR
- EXIT LIGHT (SEE SCHEDULE)
- 1P, 20A, TOGGLE SWITCH, PROVIDE WITH MATCHING FACE PLATE, COLOR BY ARCHITECT. MOUNT 48" AFF.
- 1P, 20A, KEYED TOGGLE SWITCH, PROVIDE WITH MATCHING FACE PLATE, COLOR BY ARCHITECT. MOUNT 48" AFF.
- 1P, 20A, 3-WAY TOGGLE SWITCH, PROVIDE WITH MATCHING FACE PLATE, COLOR BY ARCHITECT. MOUNT 48" AFF.
- 1P, 20A, KEYED 3-WAY TOGGLE SWITCH, PROVIDE WITH MATCHING FACE PLATE, COLOR BY ARCHITECT. MOUNT 48" AFF.
- 1P, 20A, DIMMER SWITCH, PROVIDE WITH MATCHING FACE PLATE, COLOR BY ARCHITECT. MOUNT 48" AFF.
- 1P, 20A, TOGGLE SWITCH WITH PILOT LIGHT, PROVIDE WITH MATCHING FACE PLATE, COLOR BY ARCHITECT. MOUNT 48" AFF.
- 1P, 20A, TOGGLE SWITCH WITH BUILT-IN LIGHT, PROVIDE WITH MATCHING FACE PLATE, COLOR BY ARCHITECT. MOUNT 48" AFF.
- 1P, 20A, TOGGLE SWITCH WITH BUILT-IN OCCUPANCY SENSOR, PROVIDE WITH MATCHING FACE PLATE, COLOR BY ARCHITECT. MOUNT 48" AFF.
- SAME AS ABOVE EXCEPT WIRE FOR DUAL LIGHTING. SWITCH NEAREST TO DOOR SHALL OPERATE OUTER LAMPS. SECOND SWITCH SHALL OPERATE INNER LAMP(S).
- EMERGENCY WALL PACK FIXTURE (SEE SCHEDULE)
- EMERGENCY WALL PACK FIXTURE WITH EXIT SIGN (SEE SCHEDULE)
- REMOTE HEAD SUITABLE FOR OUTDOOR USE, COLOR BY ARCHITECT (SEE SCHEDULE)

COMMUNICATION SYMBOLS

- COMBINATION TELEPHONE/DATA OUTLET. PROVIDE & INSTALL (2) CAT. 6 CABLES FROM OUTLET LOCATION TO ABOVE CEILING EACH IN 3/4" CONDUIT. MOUNT 18" AFF UNLESS OTHERWISE NOTED.
- TV OUTLET. PROVIDE & INSTALL PULL STRING FROM OUTLET LOCATION TO ABOVE CEILING EACH IN 3/4" CONDUIT. MOUNT 18" AFF UNLESS OTHERWISE NOTED.

LEGEND AND SCHEDULE OF FIRE ALARM EQUIPMENT

SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION
F.A.P.	EDWARDS SYSTEMS TECHNOLOGY	EST-3	FIRE ALARM PANEL WITH SUPPORT FOR 2500 DEVICES, 250 DEVICES PER LOOP, 168-CHARACTER LCD, FOUR INTERNAL POWER SUPPLIES WITH BATTERY BACKUP, LOCAL, PROPRIETARY, AND CENTRAL STATION SYSTEMS OPERATIONS. EIGHT CHANNELS OF DIGITAL AUDIO.
R.A.		3-LCDANN	REMOTE ANNUNCIATOR WITH 168-CHARACTER DISPLAY. SURFACE OR FLUSH MOUNT AS NECESSARY. GRAY ENAMEL FINISH.
S		SIGA-PD WITH SIGA-SB OR SIGA-SB4 BASE	ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR. USER SELECTED SENSITIVITY LEVEL BETWEEN 1-3.5%. TWIN RED/GREEN STATUS LEDS. SELF CHECK AGAINST FALSE ALARMS 19V DC.
H		SIGA-HRD WITH SIGA-SB OR SIGA-SB4 BASE	ADDRESSABLE HEAT DETECTOR: 135 F° FIXED TEMP. OR 15 F°/MIN. TWIN RED/GREEN STATUS LEDS. 19V DC.
H 200		SIGA-HRD WITH SIGA-SB OR SIGA-SB4 BASE	ADDRESSABLE HEAT DETECTOR: 200 F° FIXED TEMP. OR 15 F°/MIN. TWIN RED/GREEN STATUS LEDS. 19V DC.
DS		SIGA-PH WITH SIGA-SD DETECTOR AND SIGA-SB BASE	DUCT SMOKE DETECTOR HOUSING: SUITABLE UP TO 4000FT/MIN AIR VELOCITY. (COORDINATE SIZE OF SAMPLING TUBE WITH DUCTWORK. PROVIDE RELAYS AS REQUIRED)
W/S		G1R-HDVM	HORN-STROBE WITH SELECTABLE 15,30,75 OR 110 cd STROBE OUTPUT AND SELECTABLE 86-96 db HORN OUTPUT. INDOOR USE ONLY.
P		SIGA-270	ADDRESSABLE MANUAL PULL STATION. BREAK-GLASS OPERATION AND STATUS LEDS. DIE-CAST METAL BODY. RED
S		G1R-VM	SYNCHRONIZED STROBE WITH SELECTABLE 15,30,75 OR 110 cd OUTPUT. 16V-33VDC, RED COVER. INDOOR USE ONLY.
H		757-U-T	HORN WITH LOW FREQUENCY SOUND, SELECTABLE TEMPORAL OR CONTINUOUS TONES, AND SELECTABLE 94-98dB OUTPUT.
DH		1508-AQNS	ELECTROMAGNETIC DOOR HOLDER, SYRFACE WALL MOUNTED. COORDINATE WITH ARCHITECT FOR EXTENSION PLATE.
IS		SIGA-WTM	PROVIDE WATER FLOW/TAMPER MODULE. CONNECT CIRCUIT 1 TO FLOW SWITCH PROVIDED BY FIRE SPRINKLER CONTRACTOR. CONNECT CIRCUIT 2 TO TAMPER SWITCH PROVIDED BY FIRE SPRINKLER CONTRACTOR.
PS		SIGA-MM1	PROVIDE ADDRESSABLE MODULE AND CONNECT TO PRESSURE SWITCH PROVIDED BY FIRE SPRINKLER CONTRACTOR.

NOTES:

- PROVIDE APPURTENANCES NECESSARY SUCH THAT IF MORE THEN TWO STROBES ARE VISIBLE THEY SHALL FLASH IN SYNCH.
- STROBES MUST BE PLACED 15' FROM THE END OF ANY CORRIDOR.

LEGEND AND SCHEDULE OF AREA OF RESCUE ASSISTANCE EQUIPMENT

SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION
AREA OF RESCUE ASSISTANCE ANNUNCIATOR (ARAA)	CORNELL	SERIES 4200 A4212	4200 SERIES AREA RESCUE ASSISTANCE 12 ZONE ANNUNCIATOR PANEL. VOICE COMMUNICATION. PANEL SHALL HAVE ZONE DESIGNATIONS AND OPERATING DIRECTIONS. POWER SUPPLY SHALL HAVE 120V EMERGENCY BATTERY BACKUP. CORNELL MODEL #B-5243. PROVIDE WITH TAK-4200 TELEPHONE ACCESS KIT. PROVIDE PHONE LINE. PROVIDE WITH DESIGNATED TELEPHONE OUTLET.
		4201/V	FLUSH WALL MOUNTED VANDAL RESISTANT PUSHBUTTON ON 2 GANG STAINLESS STEEL PLATE. HANDS FREE VOICE COMMUNICATION WITH ANNUNCIATOR. 48" MAX. MOUNTING HEIGHT. IN ADDITION, E.C. SHALL PROVIDE & INSTALL TELEPHONE OUTLET AT 48" AFF. PROVIDE SINGLE GANG BACK BOX WITH 3/4" CONDUIT TO ABOVE CEILING WITH PULL STRINGS. KEYPAD SHALL HAVE ACCESS TO PUBLIC TELEPHONE SYSTEM TO DIAL EMERGENCY SERVICES.
		SN-B	LIGHTED AREA OF RESCUE ASSISTANCE SIGN WITH BATTERY BACKUP, 120V. PROVIDE POWER FROM LOCAL EMERGENCY LIGHTING CIRCUIT. ARROW INDICATED DIRECTION.

LIGHTING CONTROL EQUIPMENT SCHEDULE

SYMBOL	MANUFACTURER	MODEL #	DESCRIPTION
	WATTSTOPPER	DT-300	DUAL-TECHNOLOGY CEILING MOUNTED VANDAL SENSOR. PROVIDE RELAY PACK, 20 MIN. TIME DELAY SET, DUAL DETECTION WITH RETRIGGER AS EITHER.
	WATTSTOPPER	DW-100	DUAL-TECHNOLOGY DUAL RELAY WALL VANDAL SENSITIVE SINGLE SWITCH WITH MANUAL ON & OFF. 5/10/30 MINUTE AUTO OFF WITH BOTH DUAL TECHNOLOGY RETRIGGER. COLOR BY ARCHITECT.
	WATTSTOPPER	LVSW-101	LOW VOLTAGE WALL MOUNTED TOGGLE SWITCH. COLOR BY ARCHITECT.
RC	WATTSTOPPER	BZ200	120-277V POWER PACK FOR MANUAL ON/AUTO OFF OPERATION, NOT SHOWN ON DRAWINGS. SUPPLY AS NECESSARY.

POWER SYMBOLS

- SPEC GRADE NEMA 5-20R RECEPTACLE.
- GFI INDICATES GROUND FAULT INTERRUPTION -WP INDICATES WEATHER PROOF ENCLOSURE
- SPEC GRADE NEMA 5-20R RECEPTACLE. MOUNT AT 44" AFF OR 6" ABOVE COUNTER, UON.
- GFI INDICATES GROUND FAULT INTERRUPTION -WP INDICATES WEATHER PROOF ENCLOSURE
- 2P, 3 WIRE, 250V GROUNDING NEMA 6-30R RECEPTACLE.
- GFI INDICATES GROUND FAULT INTERRUPTION -WP INDICATES WEATHER PROOF ENCLOSURE
- 1P, 3 WIRE, 125V QUAD RECEPTACLE.
- GFI INDICATES GROUND FAULT INTERRUPTION -WP INDICATES WEATHER PROOF ENCLOSURE
- SPECIAL PURPOSE CONNECTION.
- JUNCTION BOX, SIZE PER N.E.C.
- 3P, NON-FUSED DISCONNECT SWITCH, FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SHALL HAVE THE SAME # OF POLES AS CONNECTING CIRCUIT UNLESS OTHERWISE NOTED.
- 3P, FUSED DISCONNECT SWITCH, FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SHALL HAVE THE SAME # OF POLES & AMPERE RATING AS CONNECTING CIRCUIT UNLESS OTHERWISE NOTED.
- MOTOR STARTER FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR
- MOTOR STARTER FURNISHED & INSTALLED WITH EQUIPMENT.
- COMBINATION NON-FUSED DISCONNECT SWITCH & MAGNETIC MOTOR STARTER WITH HAND/OFF/AUTO SWITCH. FURNISHED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.
- PULL BOX
- 480Y/277V, 3ø, 4W PANEL BOARD (SEE SCHEDULE)
- 208Y/120V, 3ø, 4W PANEL BOARD (SEE SCHEDULE)
- CONDUIT HOME RUN TO DESIGNATED PANEL. REFER TO PANEL SCHEDULE FOR CONDUIT & CABLE QUANTITY AND SIZE.
- DOUBLE HOME RUN
- TRIPLE HOME RUN
- GROUND
- TRANSFORMER
- 120V, OR 208V, 1P, MOTOR STARTER WITH OVERLOADS TO SERVE AS DISCONNECTING MEANS. COORDINATE WITH OTHER TRADES.
- KEY PAD
- TRANSFORMER (SIZE SHOWN ON PLAN OR ONE-LINE DIAGRAM)
- CIRCUIT BREAKER - 100A TRIP - SINGLE POLE
- FUSE SWITCH - 100A FUSE - 3 POLE
- MOTOR

FIRE ALARM SYMBOLS

- FIRE ALARM PULL STATION
- SMOKE DETECTOR. A=AUXILIARY CONTACTS. STROBE ONLY ADA COMPLIANT
- FIRE ALARM HORN W/STROBE ADA COMPLIANT
- HEAT DETECTOR
- DUCT SMOKE DETECTOR. COORDINATE SIZE OF SAMPLING TUBE WITH DUCTWORK. PROVIDE RELAYS AS REQUIRED.
- CARBON MONOXIDE DETECTOR

SURVEILLANCE SYSTEM LEGEND

SYMBOL	DESCRIPTION
	SECURITY CAMERA- REFER TO SECURITY & SURVEILLANCE PLAN, BY OWNER.

NURSE CALL SYSTEM LEGEND

SYMBOL	DESCRIPTION
H-N SBP	NURSE CALL AUDIBLE BEDSIDE STATION, PUSHBUTTON CORD, BY OWNER.
H-N E	NURSE CALL EMERGENCY TOILET STATION, BY OWNER.
H-N EWP	NURSE CALL EMERGENCY SHOWER STATION, WATERPROOF, BY OWNER.
H-N EPB	NURSE CALL AUDIBLE STATION, PULL CORD, BY OWNER.
	NURSE CALL DOME LIGHT, BY OWNER.

ABBREVIATIONS

A	AMPERE	JB	JUNCTION BOX
ACT	ACOUSTIC CEILING TILE	KV	KILO VOLT
AD	AUTOMATIC DAMPER	KVA	KILO VOLT AMP
AF	AMPERE FRAME	KW	KILO WATT
AFF	ABOVE FINISHED FLOOR	LTG	LIGHTING PANEL
AIC	AMPERE INTERRUPTING CAPACITY	LTC	LIGHTING
AL	ALUMINUM	M.C.C.	MECHANICAL CONTRACTOR
ATS	AUTOMATIC TRANSFER SWITCH	MCM	THOUSAND CIRCULAR MILS
AUTO	AUTOMATIC	MCCB	MAIN CIRCUIT BREAKER
AWG	AMERICAN WIRE GAUGE	MECH	MECHANICAL
BCW	BARRE COPPER WIRE	MDP	MAIN DISTRIBUTION PANEL
CB	CIRCUIT BREAKER	MLO	MAIN LUGS ONLY
CD	CATALOG	MTD	MOUNTED
CB	CIRCUIT BREAKER	MTG	MOUNTING
CKT	CIRCUIT	MTS	MANUAL TRANSFER SWITCH
CLG	CEILING	N	NEUTRAL
CT	CURRENT TRANSFORMER	NIC	NOT IN CONTRACT
CU	COPPER	NEC	NATIONAL ELECTRIC CODE
DP	DISTRIBUTION PANEL	NTS	NOT TO SCALE
DF	DRINKING FOUNTAIN	NM	NON-METALLIC CONDUIT
DIV	DIVISION	P	POLE
DS	DISCONNECT (LOCKOUT) SWITCH	PB	PULL BOX
DWG	DRAWING	PH	PHASE
EACI	ELECTRICAL CONTRACTOR	PWR	POWER
E.C.	ELECTRICAL CONTRACTOR	RECEPT.	RECEPTACLE
ELEC.	ELECTRICAL	REQ.	REQUIRED
ELEV	ELEVATOR	RGS	RIGID GALVANIZED STEEL
E.P.O.	EMERGENCY POWER OFF	RM	ROOM
EQUIP.	EQUIPMENT	SCHED.	SCHEDULE
EMT	ELECTRICAL METALLIC TUBING	SECT.	SECTION
FA	FIRE ALARM	SPEC.	SPECIFICATION
FAP	FIRE ALARM PANEL	SPKR.	SPEAKER
FL	FLOOR	SV	SOLENOID VALVE
FLEX	FLEXIBLE	SW	SWITCH
FT	FEET OR FOOT	SWBD	SWITCH BOARD
FLUOR.	FLUORESCENT	SYS	SYSTEM
F.W.E.	FURNISHED WITH EQUIPMENT	TEL	TELEPHONE
G, GND	GROUND	TC	TIME CLOCK
GEN.	GENERATOR	TYP	TYPICAL
GFI	GROUND FAULT INTERRUPTER	U.N.O.	UNLESS NOTED OTHERWISE
G.C.	GENERAL CONTRACTOR	UPS	UN-INTERRUPTIBLE POWER SUPPLY
HH	HAND HOLE	VFC	VARIABLE FREQUENCY CONTROLLER
HP	HORSEPOWER	VIF	VERIFY IN FIELD
HS	HAND SWITCH	VSD	VARIABLE SPEED DRIVE
HVAC	HEATING, VENTILATING & AIR CONDITIONING	WP	WEATHER PROOF
HZ	INTER interrupting CAPACITY	W	WATT
IG, I	ISOLATED GROUND	WFMR/	TRANSFORMER
IMC	INTERMEDIATE METAL CONDUIT		






















GENERAL SYMBOLS

- INDICATES SECTION LETTER
- INDICATES DRAWING NUMBER WHERE LOCATED

ELECTRICAL LINE TYPES

- NEW DEVICE
- NEW WIRING
- NEW FIXTURE

LEGEND AND SCHEDULE OF LIGHTING EQUIPMENT

SYMBOL	MANUFACTURER	CATALOG #	DESCRIPTION	LAMP
 A	PHILIPS	2STG36L8354	2x4 RECESSED LED, 3500K CCT, 80 CRI, 3600 LUMENS. 120-277V.	LED 29.2W
 B	PHILIPS	2STG30L8352	2x2 RECESSED LED, 3500K CCT, 80 CRI, 3000 LUMENS. 120-277V.	LED 26W
 C1	HOLOPHANE	HZL1DL483000LM	4' CEILING MOUNTED STRIP LIGHT, 3500K CCT, 80 CRI, 3,830 LUMENS. 120-277V.	LED 33W
 C2	HOLOPHANE	HZL1DL485000LM	4' CEILING MOUNTED STRIP LIGHT, 4000K CCT, 80 CRI, 5,497 LUMENS. 120-277V.	LED 42W
 O1	PHILIPS	CGL15835	6" RECESSED LED DOWNLIGHT 3500K CCT, 80 CRI, 1,500 LUMENS. 120-277V.	LED 15W
 O2	PHILIPS	C6L20835	6" RECESSED LED DOWNLIGHT 3500K CCT, 80 CRI, 2,000 LUMENS. 120-277V.	LED 19W
 OE	BROWNLEE LIGHTING	2341-15-NT	15" ROUND SURFACE MOUNTED FIXTURE 3500K CCT, 80 CRI, 2,050 LUMENS. 120-277V. NICKEL TONE FINISH.	LED 16W
 OF	SHAPER	141-38-P25-L7/835	38" RECTILINEAR PENDANT LIGHT WITH ALUMINUM PAINT FINISH AND LINEN ALABASTER SHADE. 3500K CCT, 83 CRI, 5009 LUMENS. 120-277V.	LED 70W
 G	DAY-BRITE	CSW482835U	4' WALL MOUNTED LED DOWNLIGHT 3500K CCT, 80 CRI, 2,800 LUMENS. 120-277V.	LED 31W
 H	BROWNLEE LIGHTING	5178-24-BW	24" LED WALL-MOUNTED VANITY LIGHT WITH BRUSHED NICKEL FINISH, 4000K CCT, 90 CRI, 2,076 LUMENS. 120-277V.	LED 16W
 OI	BROWNLEE LIGHTING	2330-BN-WHL	13.75" SQUARE SURFACE-MOUNTED FIXTURE WITH BRUSHED NICKEL FINISH AND WHITE LINEN DIFFUSER. 3500K CCT, 82 CRI, 2050 LUMENS. 120-277V.	LED 16W
 OJ	WAC LIGHTING	PD-58908	"PASSION" 8" PENDANT LIGHT WITH CHROME FINISH. 3500K CCT, 90 CRI, 400 LUMENS. 120-277V.	LED 6W
 OK	BROWNLEE LIGHTING	2601-30-NT	30" DIAMETER SUSPENDED FIXTURE WITH NICKEL TONE TRIM. 3500K CCT, 82 CRI, 4380 LUMENS. 120-277V.	LED 35W
 OL	BROWNLEE LIGHTING	2600-30-NT	30" DIAMETER SUSPENDED FIXTURE WITH NICKEL TONE TRIM AND NATURAL LINEN DIFFUSER. FIXTURE SHALL BE SUSPENDED BY CORD AND SINGLE CABLE. 3500K CCT, 82 CRI, 2050 LUMENS. 120-277V.	LED 16W
 OM	BROWNLEE LIGHTING	2342-20-NAL	19.25" DIAMETER TWO-TIER DRUM FIXTURE WITH NATURAL LINEN DIFFUSER. 3500K CCT, 82 CRI, 2050 LUMENS. 120-277V.	LED 16W
 ON	BROWNLEE LIGHTING	2059-16-BL	16.25" DIAMETER DOME FIXTURE WITH BLACK FINISH. 3500K CCT, 82 CRI, 2050 LUMENS. 120-277V.	LED 16W
 OO	WAC LIGHTING	PD-68909	"BANDIED" 9" MINI PENDANT WITH BLACK FINISH. 3500K CCT, 90 CRI, 1718 LUMENS. 120-277V.	LED 20W
 OP	BROWNLEE LIGHTING	2161-NT	24" PENDANT LIGHT WITH NICKEL TONE FINISH. 3500K CCT, 82 CRI, 2950 LUMENS. 120-277V.	LED 23W
 OQ	BROWNLEE LIGHTING	2058-BN	15" DIAMETER SURFACE MOUNTED FIXTURE WITH BRUSHED NICKEL FINISH. 3500K CCT, 82 CRI, 2050 LUMENS. 120-277V.	LED 16W
 OR	WAC LIGHTING	PD-76908	"ACTION" 8" PENDANT LIGHT WITH CHROME FINISH. 3500K, 90 CRI, 674 LUMENS. 120-277V.	LED 8W
 OS	BROWNLEE LIGHTING	2340-15-ROW	15" DIAMETER SURFACE MOUNTED FIXTURE WITH "ROLLING WAVES" DIFFUSER. 3500K CCT, 82 CRI, 2050 LUMENS. 120-277V.	LED 16W
OT	LITHONIA	LDN6-L06-AR-LS	6" RECESSED DOWNLIGHT APPROVED FOR WET LOCATION. 3500K CCT, 80 CRI, 2500 LUMENS. 277V	LED 28W
OU	WAC LIGHTING	PD-54932	"CHARMED" 3 1/2" CHANDELIER WITH BRUSHED NICKEL FINISH. 3000K CCT, 90 CRI, 6400 LUMENS, 277V	LED 94W
OV	LITHONIA	TWR1 LED	DIE-CAST WALL PAK APPROVED FOR WET LOCATIONS. 4000K CCT, 2450 LUMENS, 277V	LED 28W
OW	LIGHTOLIER	C4L-15-A-30K-8-FL	CALCULATE LED 4" WITH ADJUSTABLE ACCENT. 3000K CCT, 80 CRI, 2500 LUMENS, 120-277V. FINISH BY ARCHITECT. FIXTURE ANGLE ADJUSTABLE TO BE FINALIZED IN COORDINATION WITH OWNER/ARCHITECT	LED

[illegible]

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STATUS	REGULATORY REVIEW
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DRAWING No. **E1.0A**



- 1 COORDINATE CIRCUIT BREAKER WITH MANUFACTURER'S RECOMMENDATIONS.
- 2 PROVIDE DEDICATED LINES TO ELEVATOR FOR TELEPHONE/COMMUNICATION.
- 3 COORDINATE WITH OWNER'S DATA/COMMUNICATION CONTRACTOR FOR NUMBER OF RECEPTACLES NEEDED FOR SERVER ROOM EQUIPMENT. IF MORE ARE NEEDED THAN SHOWN, CONNECT TO AVAILABLE CIRCUIT ON PANEL LRPP-B.

[illegible]

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NY PROFESSIONAL ENGINEER
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PROJECT No: FILB 1501	DATE: 11/15/19	SCALE: AS SHOWN	

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CONTRACT

STATUS REGULATORY REVIEW

SHEET TITLE

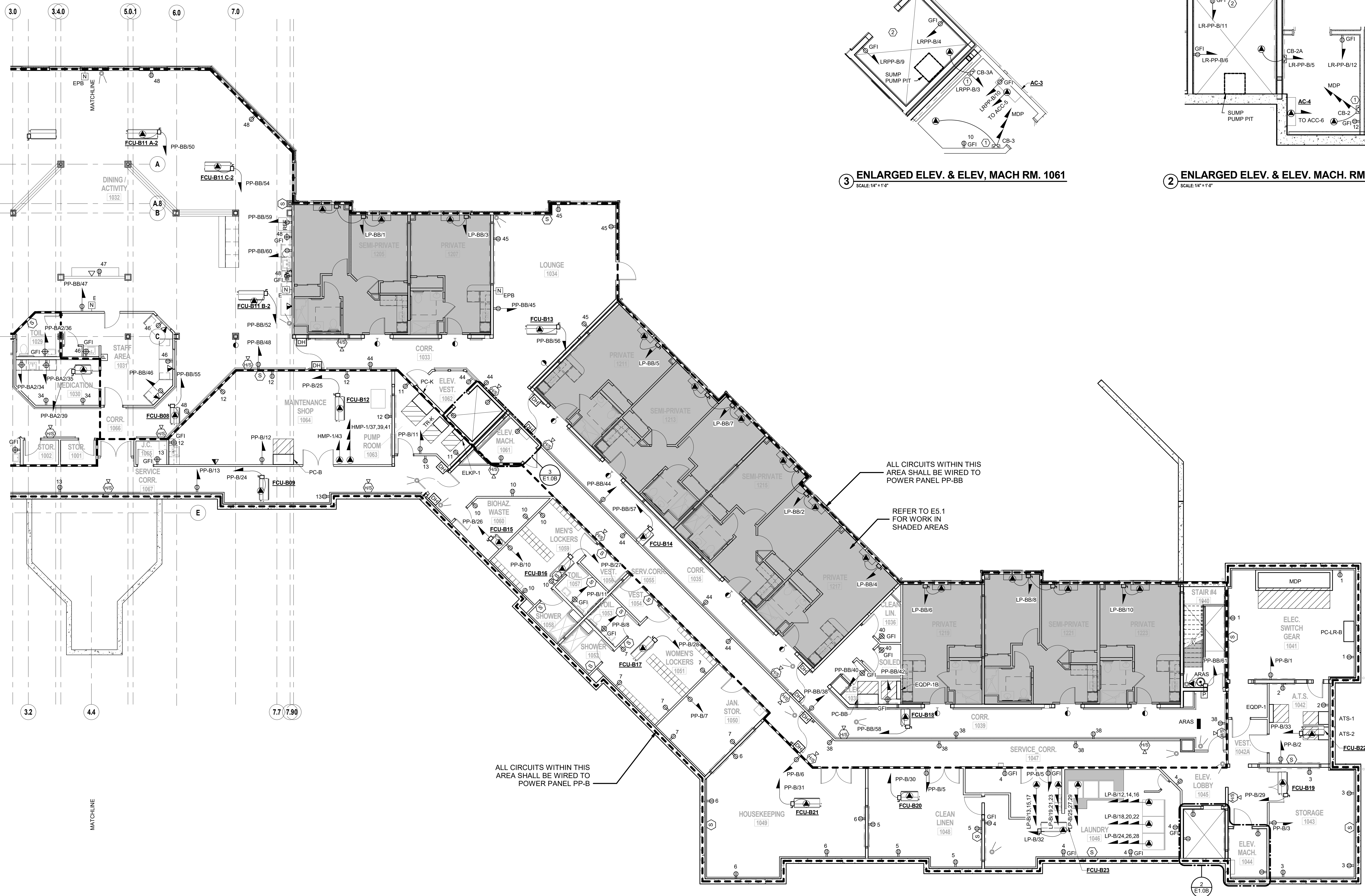
**ELECTRICAL PARTIAL
BASEMENT FLOOR
POWER PLAN - AREA B**

DRAWING M

E1.0B

SHEET

9



KEYED NOTES:

- ① COORDINATE CIRCUIT BREAKER WITH MANUFACTURER'S RECOMMENDATIONS.
- ② PROVIDE TWO (2) DEDICATED LINES TO ELEVATOR FOR TELEPHONE/COMMUNICATION

1 ELECTRICAL BASEMENT FLOOR POWER PLAN - PART B
SCALE: 1/8" = 1'-0"



3 ENLARGED ELEV. & ELEV, MACH RM. 1061
SCALE: 1/4" = 1'-0"

2 ENLARGED ELEV. & ELEV. MACH. RM. 1044
SCALE: 1/4" = 1'-0"

[illegible]

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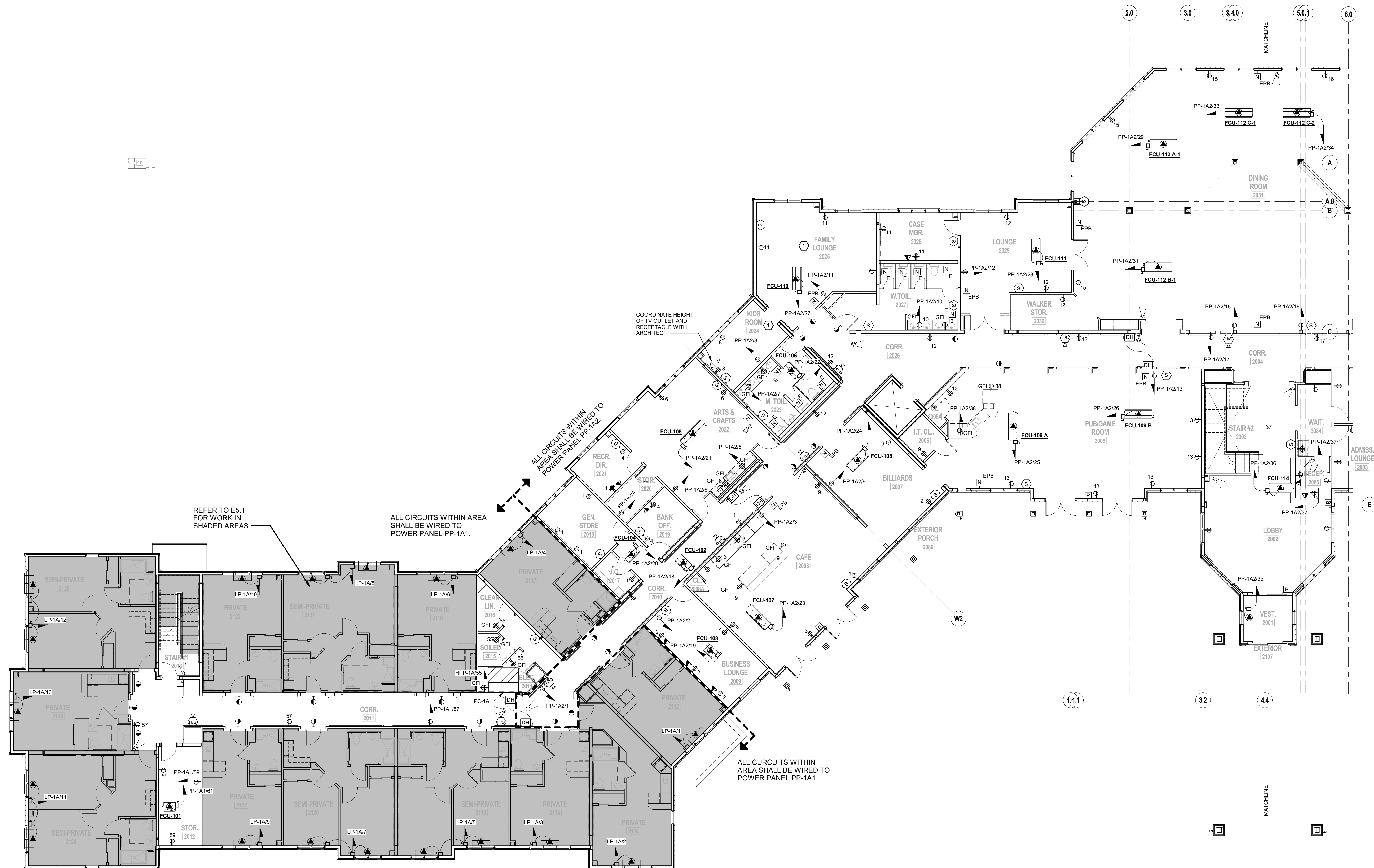
**ELECTRICAL PARTIAL
FIRST FLOOR POWER
PLAN - AREA A**

DRAWING M

E1.1A

SHEET

9



KEYED NOTE:

1 ALL RECEPTACLES IN ROOM SHALL BE TAMPER-RESISTANT.

1 ELECTRICAL FIRST FLOOR POWER PLAN - PART A
SCALE: 1/8" = 1'-0"

SCALE: 1/8" = 1'-0"



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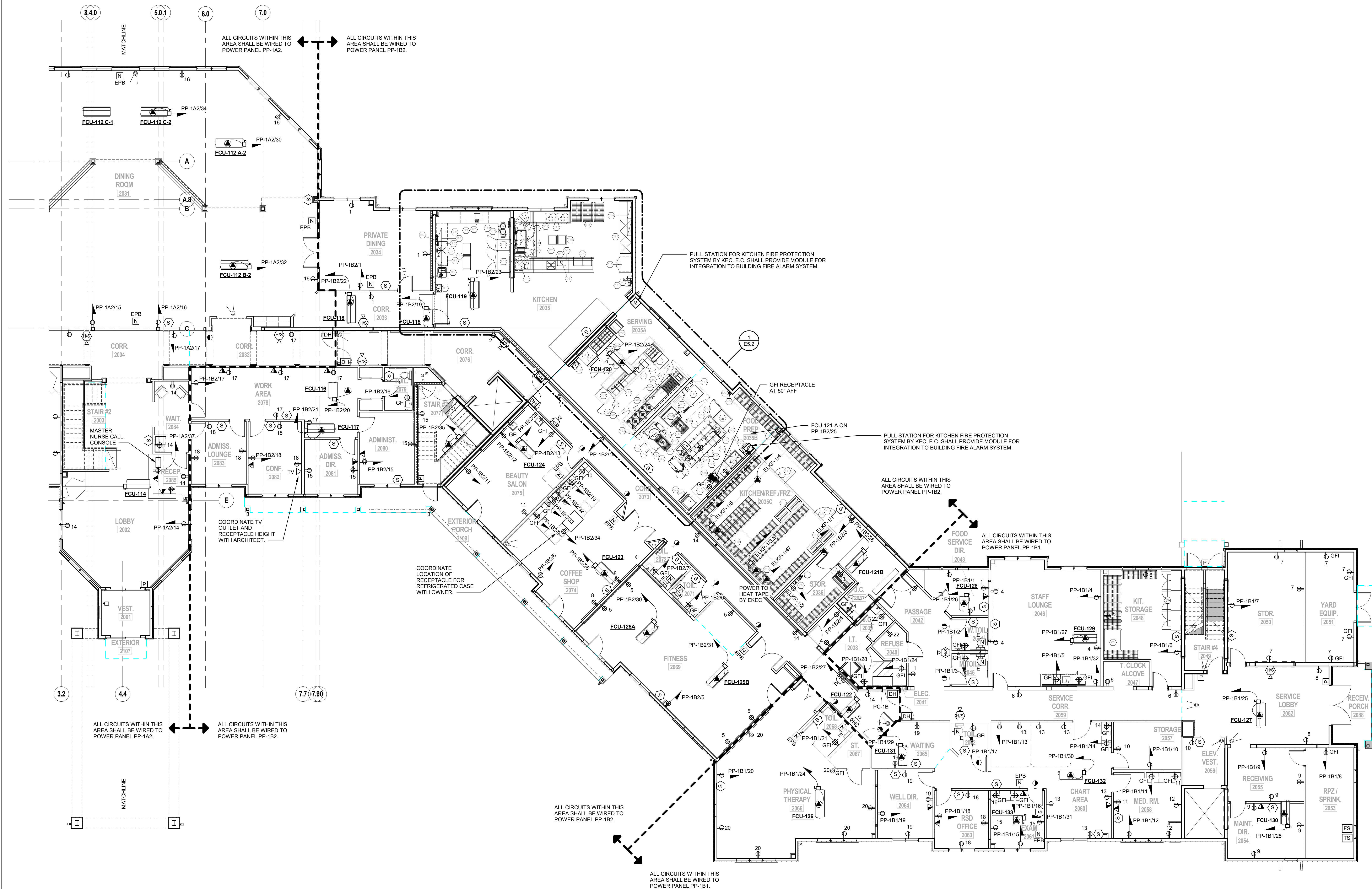
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**ELECTRICAL PARTIAL
FIRST FLOOR POWER
PLAN - AREA B**

DRAWING No. **E1.1B**



1 ELECTRICAL FIRST FLOOR POWER PLAN - PART B
SCALE: 1/8" = 1'-0"

[illegible]

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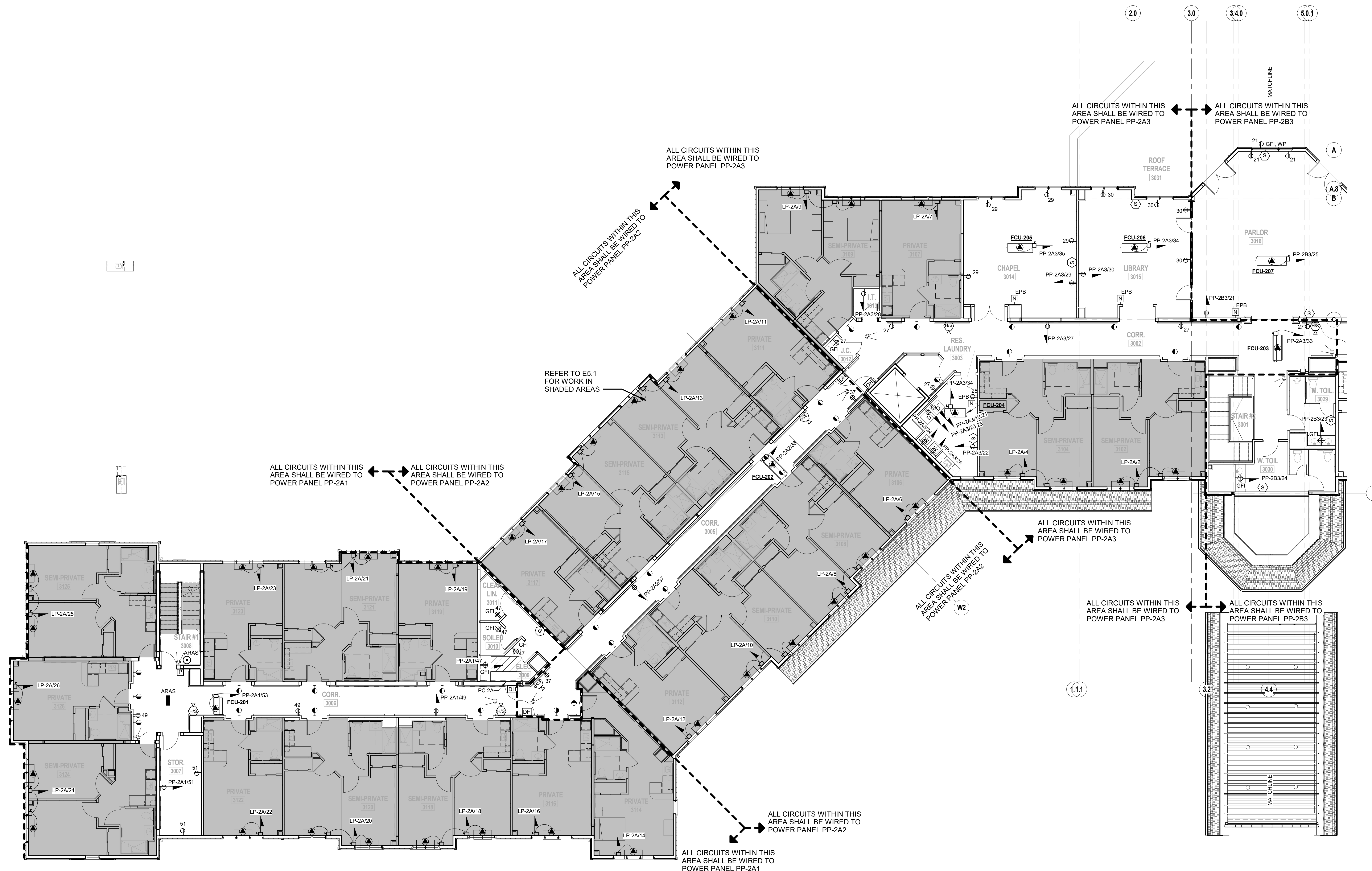
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SECOND FLOOR POWER
PLAN - AREA A**

DRAWING No.

E1.2A

SHEET No. /

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1 ELECTRICAL SECOND FLOOR POWER PLAN - PART A
SCALE: 1/8" = 1'-0"



CONSULTANTS:

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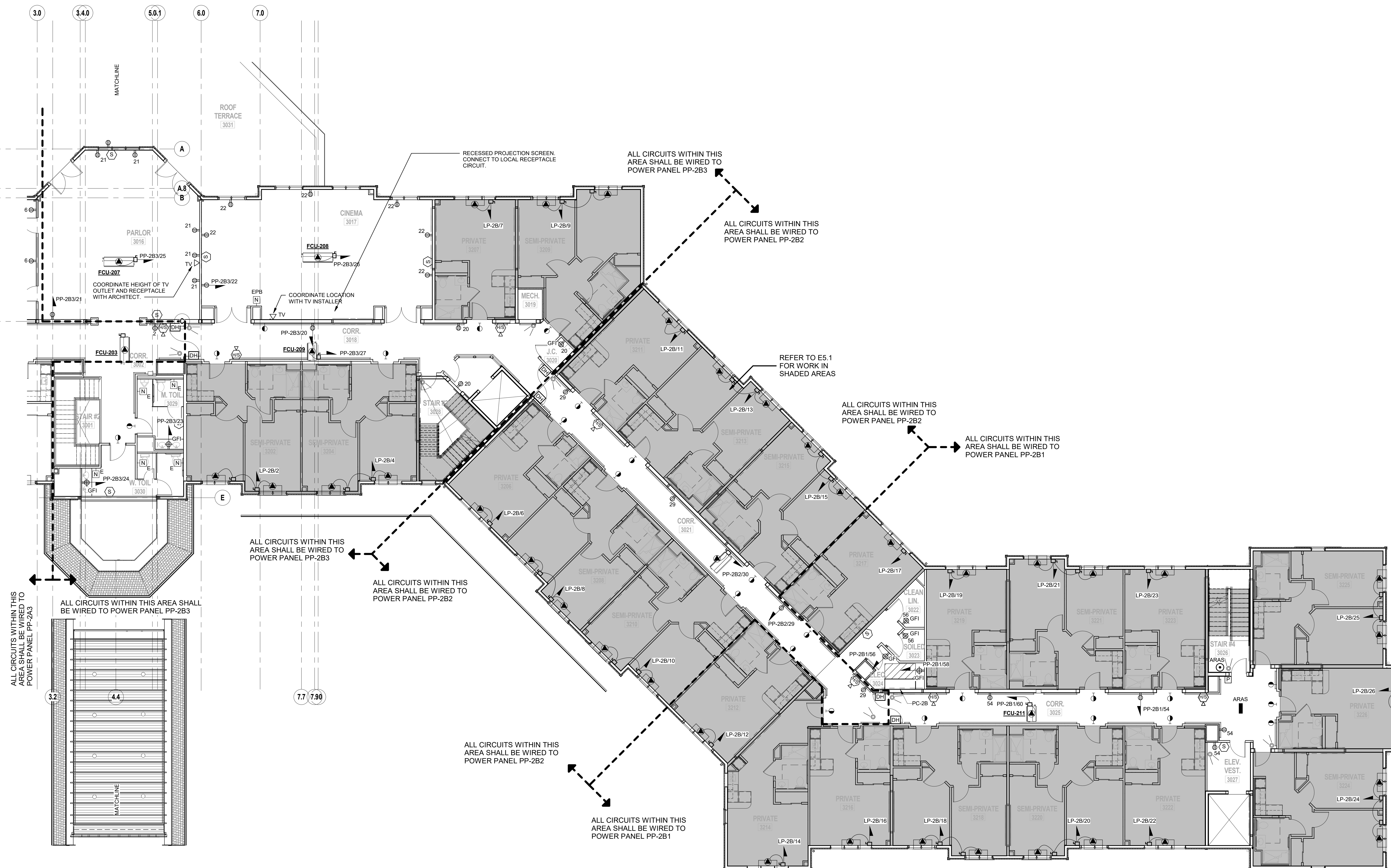
**ELECTRICAL PARTIAL
SECOND FLOOR POWER
PLAN - AREA B**

DRAWING M

E1.2B

SHEET

9



1 ELECTRICAL SECOND FLOOR POWER PLAN - PART B
SCALE: 1/8" = 1'-0"



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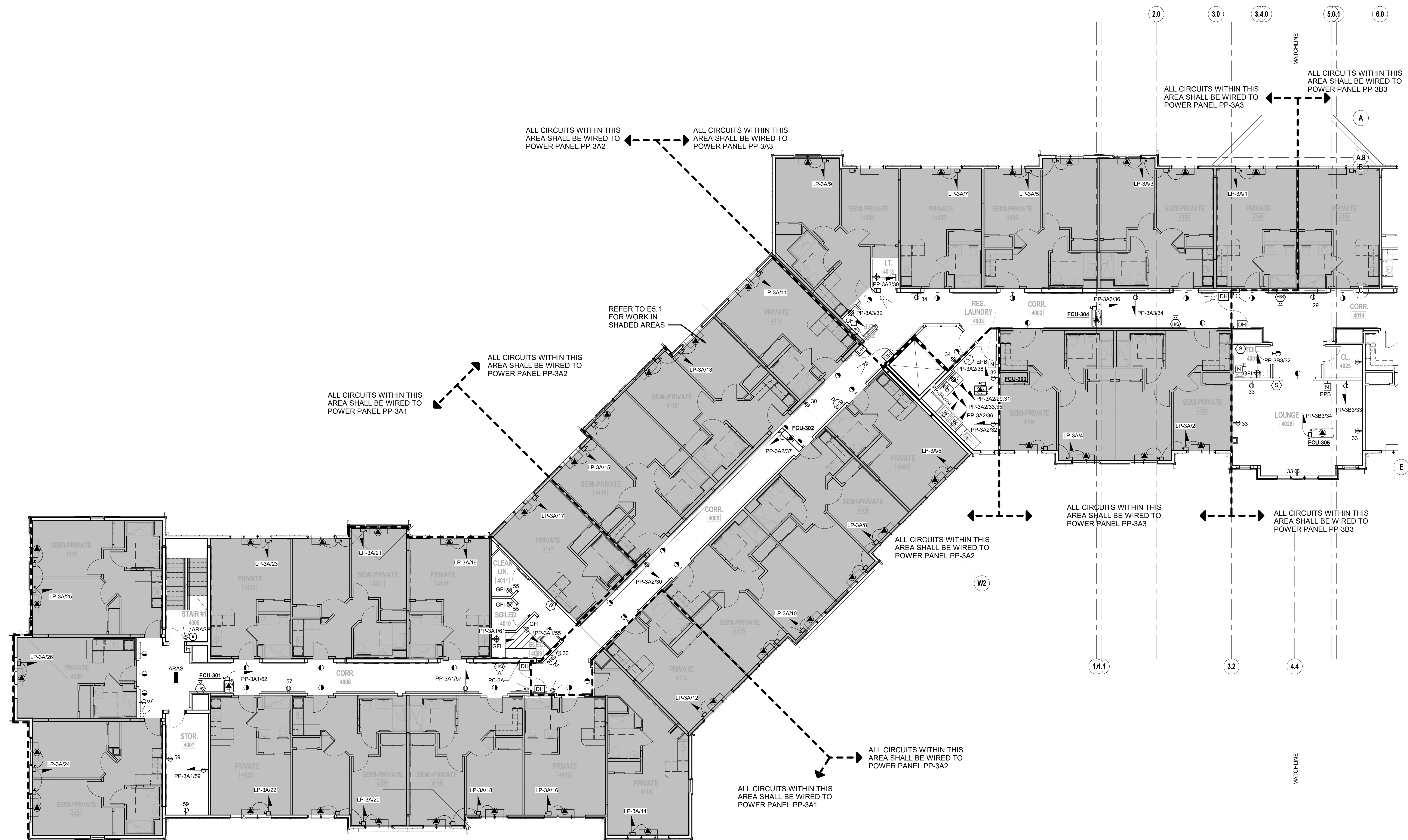
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THIRD FLOOR POWER
PLAN - AREA A**

DRAWING No.

E1.3A

SHEET No. /

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1 ELECTRICAL THIRD FLOOR POWER PLAN - PART A
SCALE: 1/8" = 1'-0"





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SHEET TITLE

**ELECTRICAL PARTIAL
BASEMENT FLOOR
LIGHTING PLAN - AREA A**

DRAWING M

E2.0A

SHEET N

OF



SCALE: 1/8" = 1'-0"

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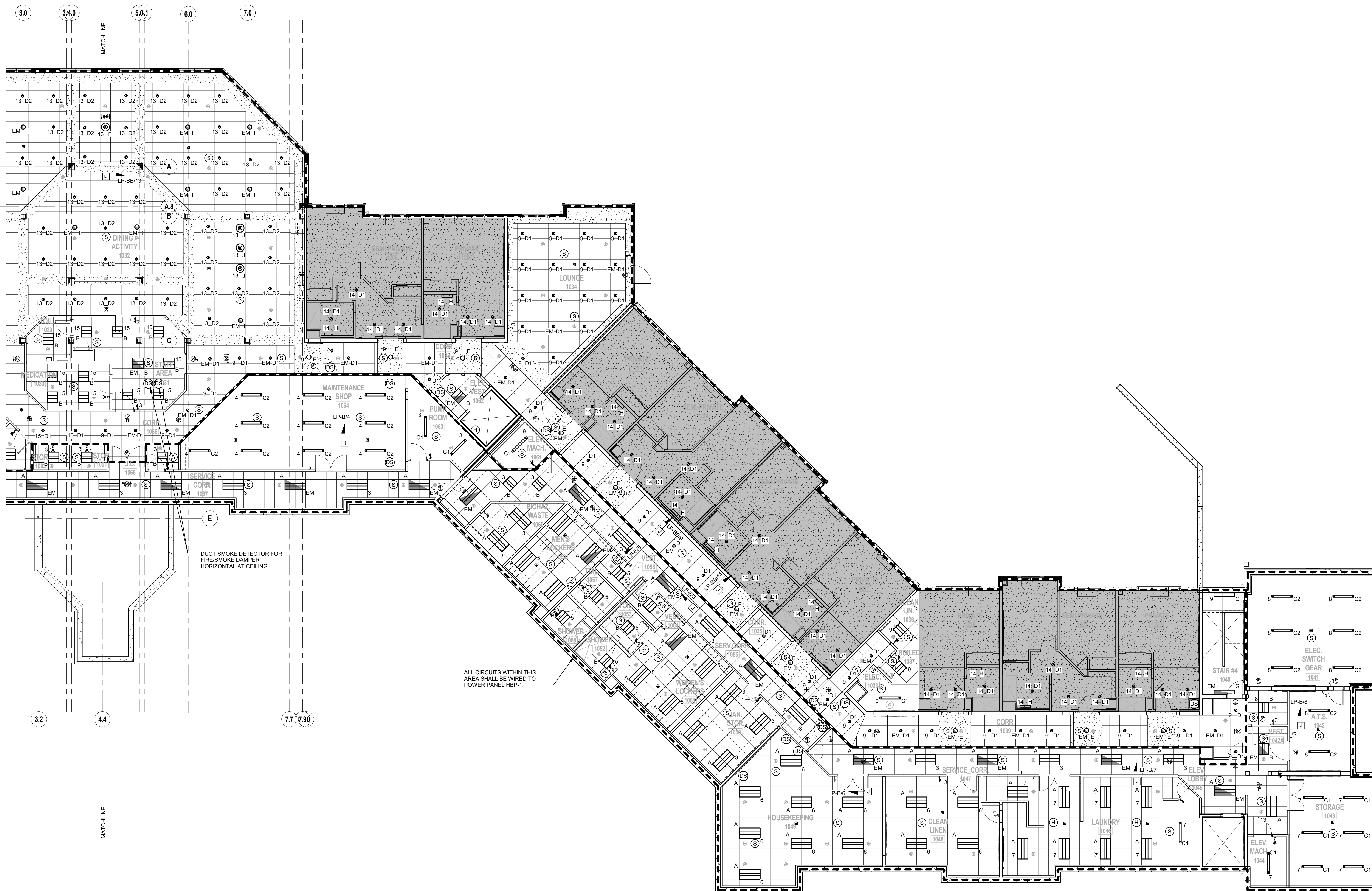
**ELECTRICAL PARTIAL
BASEMENT FLOOR
LIGHTING PLAN - AREA B**

DRAWING

E2.0B

SHEET 1

95



1 ELECTRICAL BASEMENT FLOOR LIGHTING PLAN - AREA B
SCALE: 1/8" = 1'-0"



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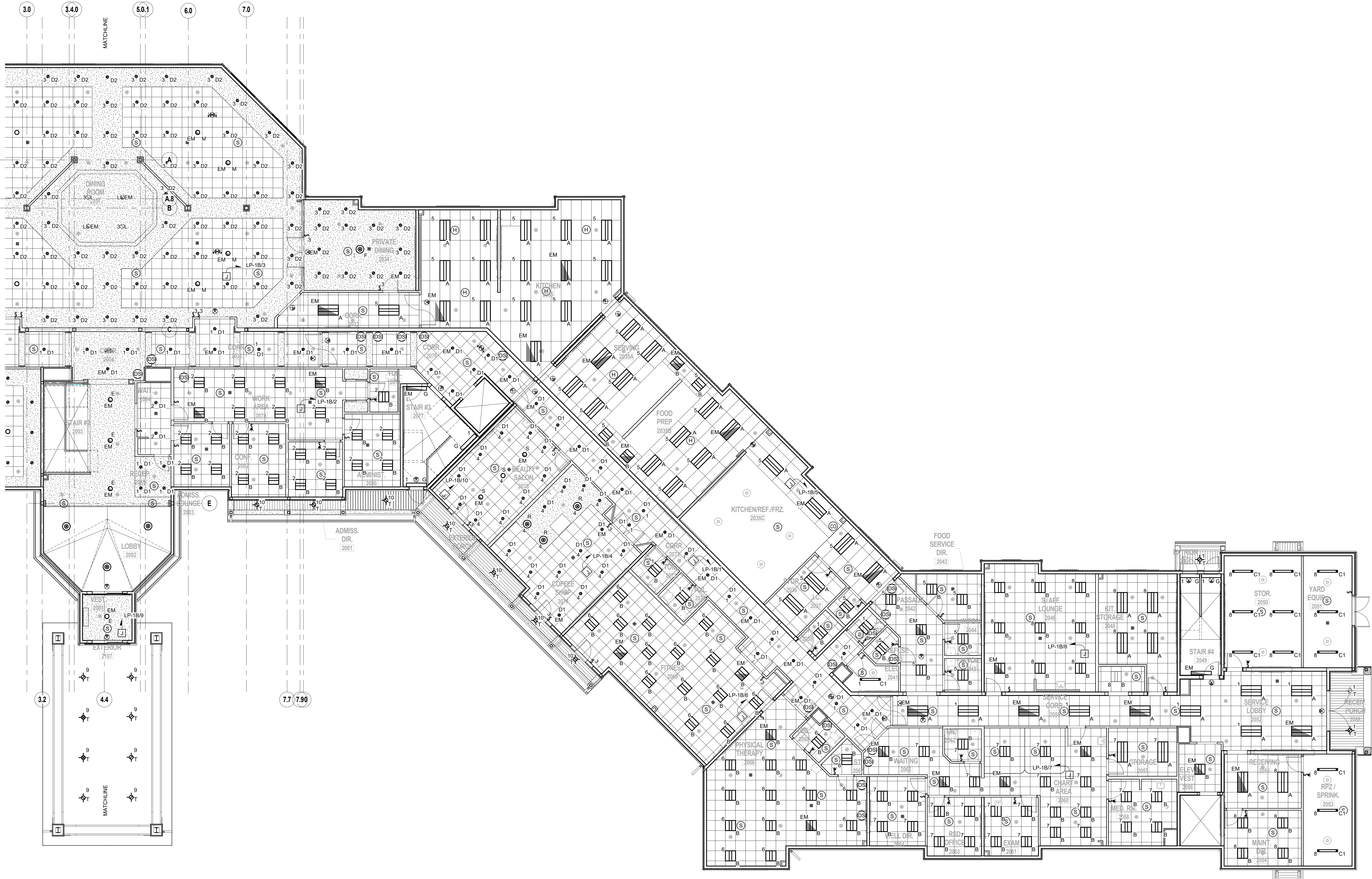
SHEET TITLE

**ELECTRICAL PARTIAL
FIRST FLOOR LIGHTING
PLAN - AREA B**

DRAWING No.

E2.1B

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1 ELECTRICAL FIRST FLOOR LIGHTING PLAN - PART B
SCALE: 1/8" = 1'-0"



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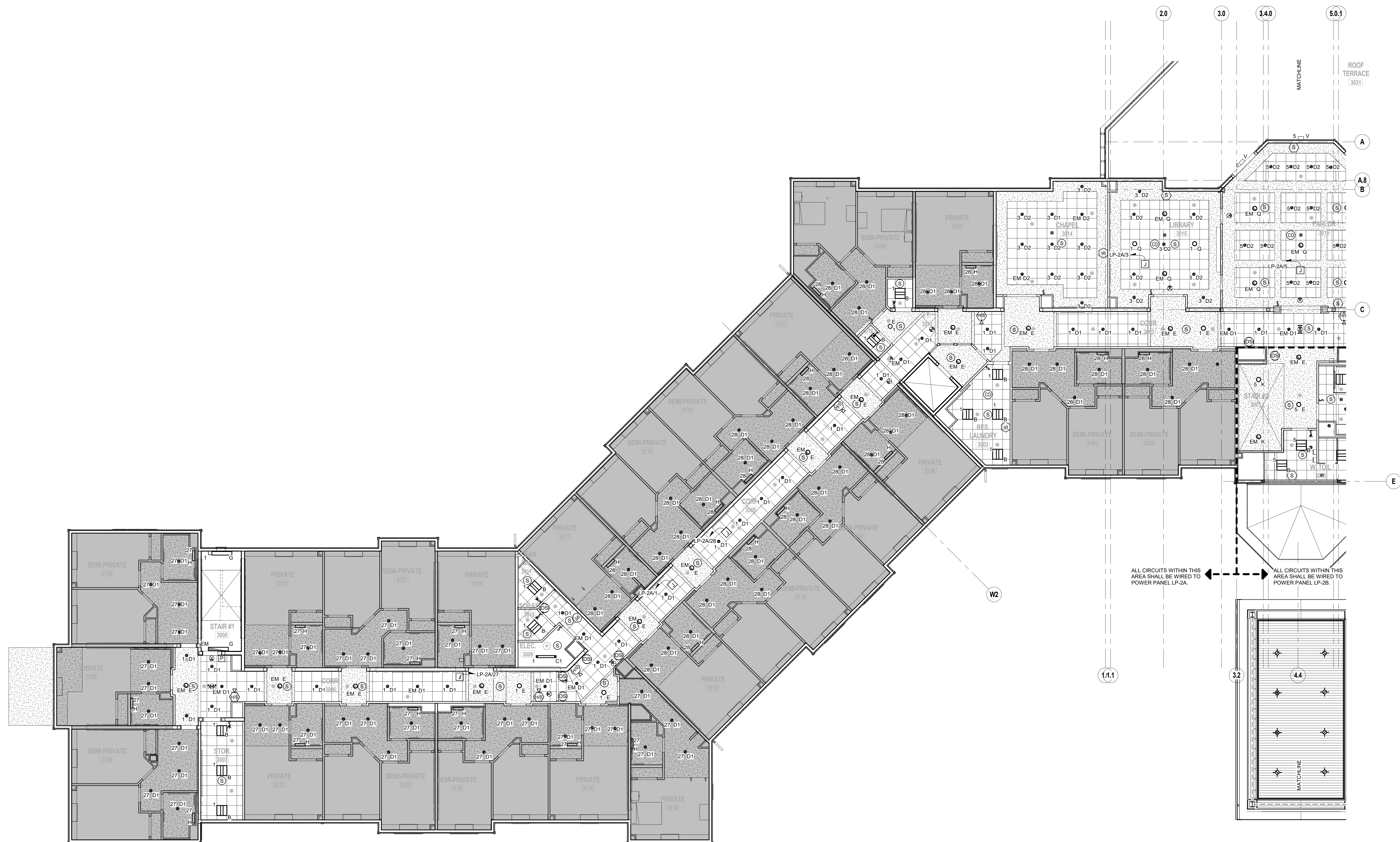
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**ELECTRICAL PARTIAL
SECOND FLOOR LIGHTING
PLAN - AREA A**

DRAWING No. **E2.2A**



1 ELECTRICAL SECOND FLOOR LIGHTING PLAN - PART A
SCALE: 1/8" = 1'-0" 

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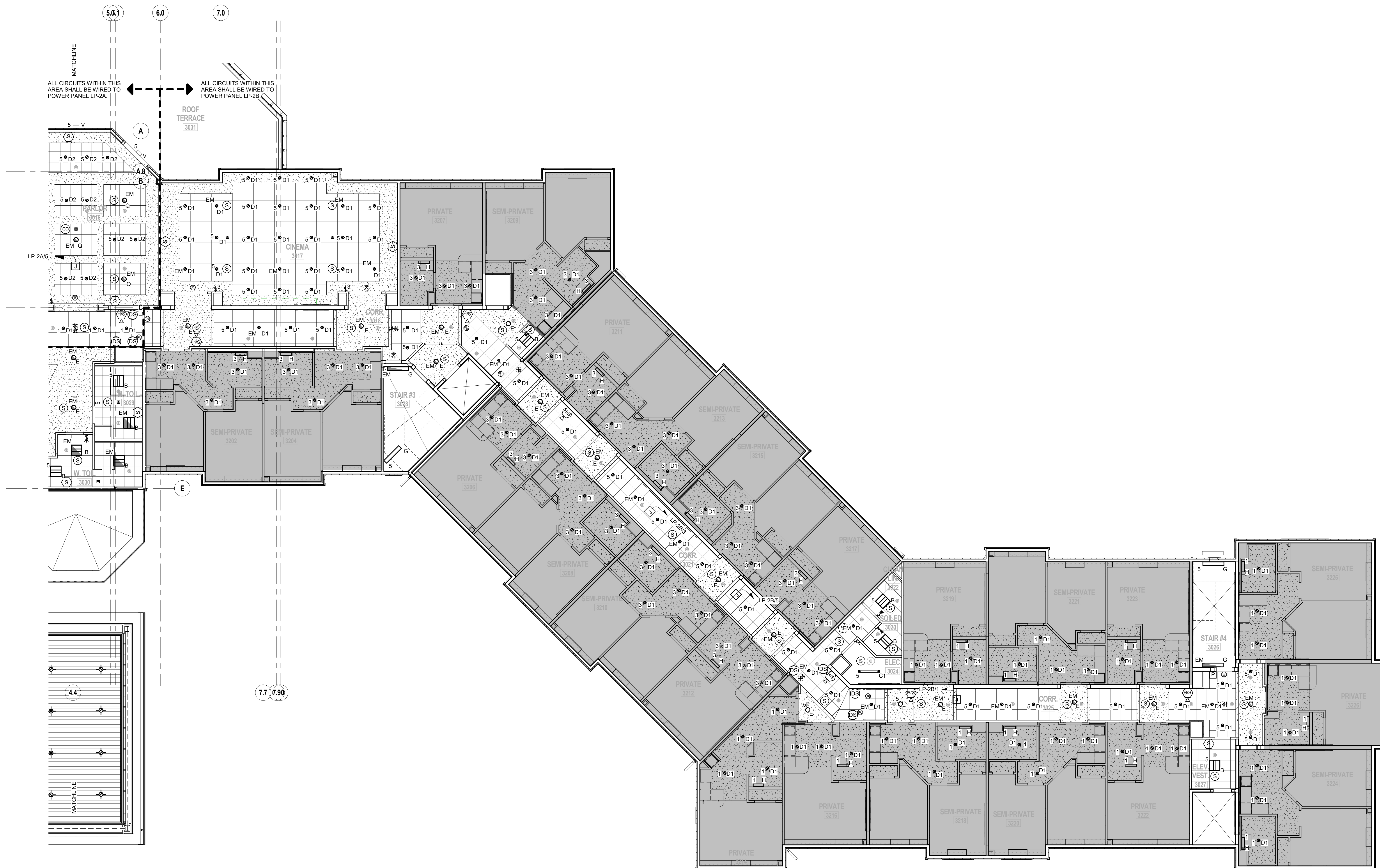
**ELECTRICAL PARTIAL
SECOND FLOOR LIGHTING
PLAN - AREA B**

DRAWING M

E2.2B

SHEET No.

OF



1 ELECTRICAL SECOND FLOOR LIGHTING PLAN - PART B
SCALE: 1/8" = 1'-0"



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**ELECTRICAL PARTIAL
THIRD FLOOR LIGHTING
PLAN - AREA A**

DRAWING M

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STATUS **REGULATORY REVIEW**

SHEET TITLE

**ELECTRICAL PARTIAL
THIRD FLOOR LIGHTING
PLAN - AREA B**

DRAWING M

E2.3B

SHEET

9



1 ELECTRICAL THIRD FLOOR LIGHTING PLAN - PART B
SCALE: 1/8" = 1'-0"



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STATUS	REGULATORY REVIEW
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SHEET TITLE

**ELECTRICAL ROOF PLAN -
AREA A**

DRAWING No. SHEET No.

E4.1A

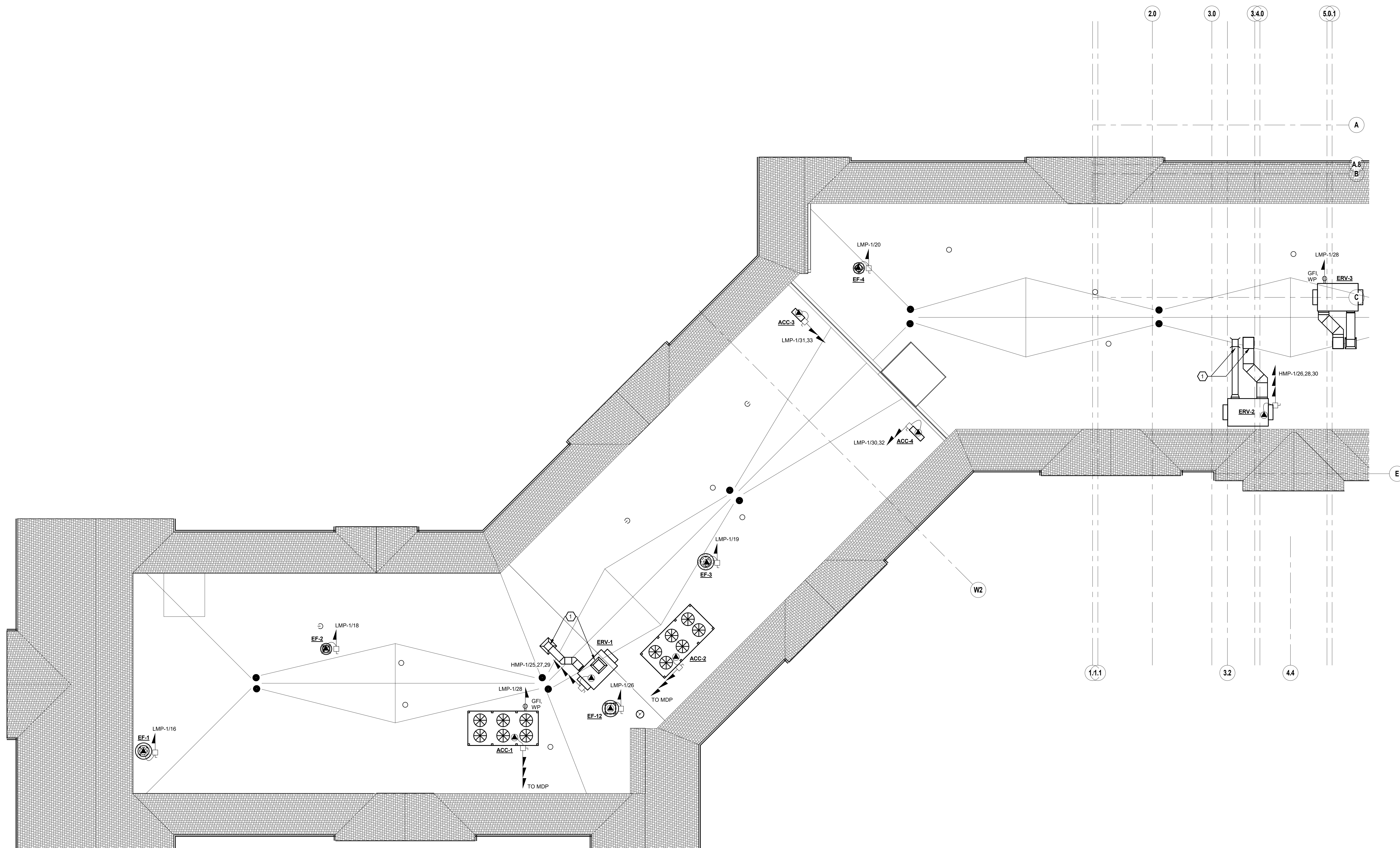
HEET No. /

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1970	9.5	9.5
1980	10.5	11.5
1990	11.5	13.5
2000	12.5	15.5
2010	13.5	17.5
2020	14.5	18.5
2030	15.5	19.0
2040	16.0	19.5
2050	16.5	19.5


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11/24/2020 9:49:33 AM

1 E.C. TO PROVIDE DUCT SMOKE DETECTORS AND CONNECT TO FIRE ALARM SYSTEM. FAN SHUTDOWN SHALL OCCUR WITH THE ACTIVATION OF DETECTORS.



1 ELECTRICAL ROOF PLAN - PART A
SCALE: 1/8" = 1'-0"



architects
+
engineers

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STATUS	REGULATORY REVIEW
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DRAWING No. E4.1B	SHEET No. 1 OF 1
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1/24/2020 9:49:51 AM

3 Broad Hollow Road, 4th Floor E
Melville, NY 11747
631.756.8000 • www.h2m.com

CONSULTANT:

FELLENZER 
ENGINEERING LLP

**22 Mulberry St., Suite 2A,
Middletown, NY 10940
t 845-343-1481 fx 855-320-8735**

[illegible]

ERIC D. FELLENER, P.E.



NY PROFESSIONAL ENGINEER
NO. 073084-1

DESIGNED BY: ECR	DRAWN BY: SRB	CHECKED BY: EDF	REVIEWED BY: 0
PROJECT No: FILB 1501		DATE: 11/15/19	SCALE: AS SHOWN

**Montebello Realty
GP LLC**

Braemar at Montebello Assisted Living Residence

Montebello Crossing
250 Lafayette Avenue
(Route 59)
Village of Montebello
New York

CONTRACT

STATUS

REGULATORY REVIEW

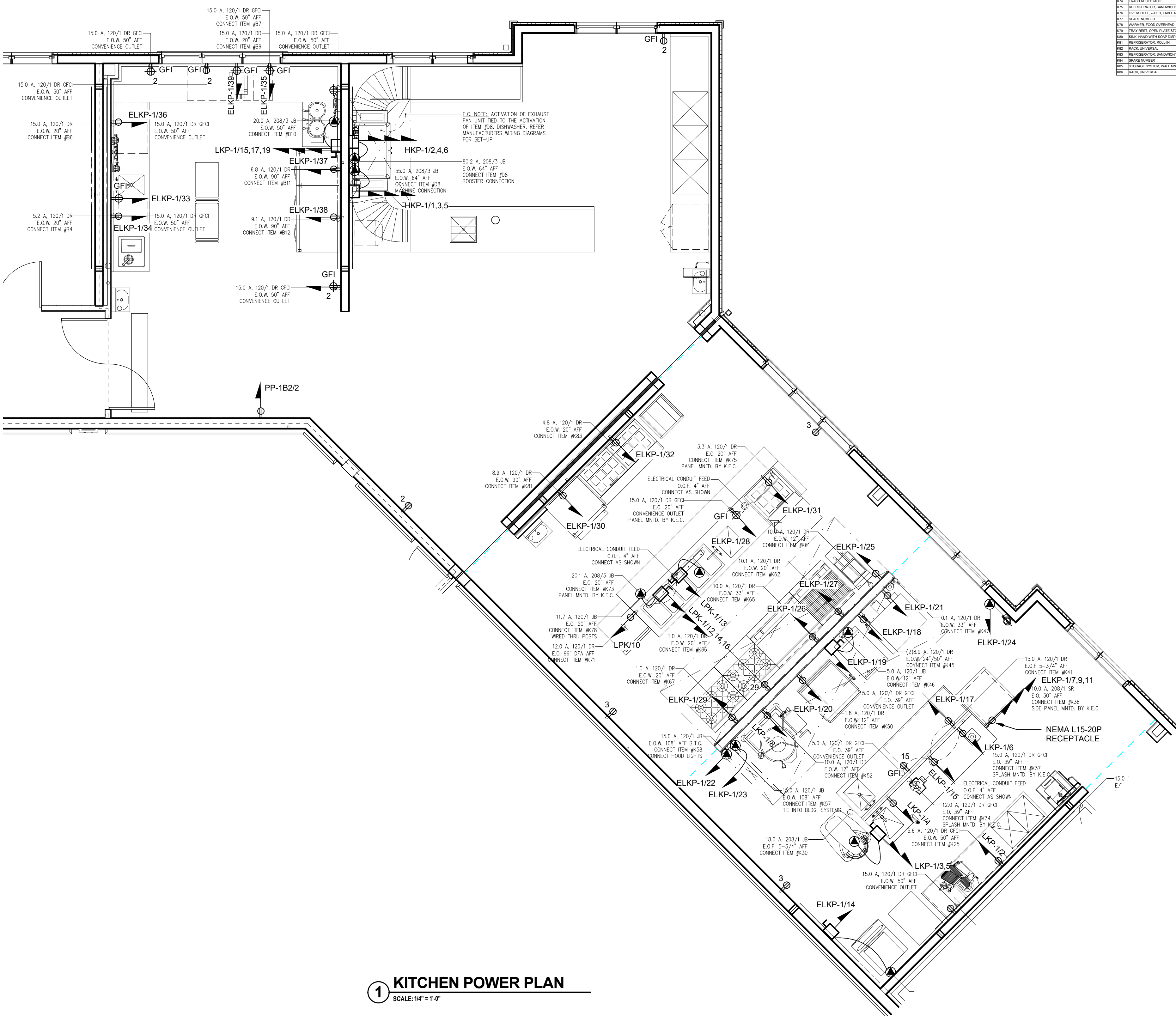
SWEET TIT

ENLARGED KITCHEN LAYOUT

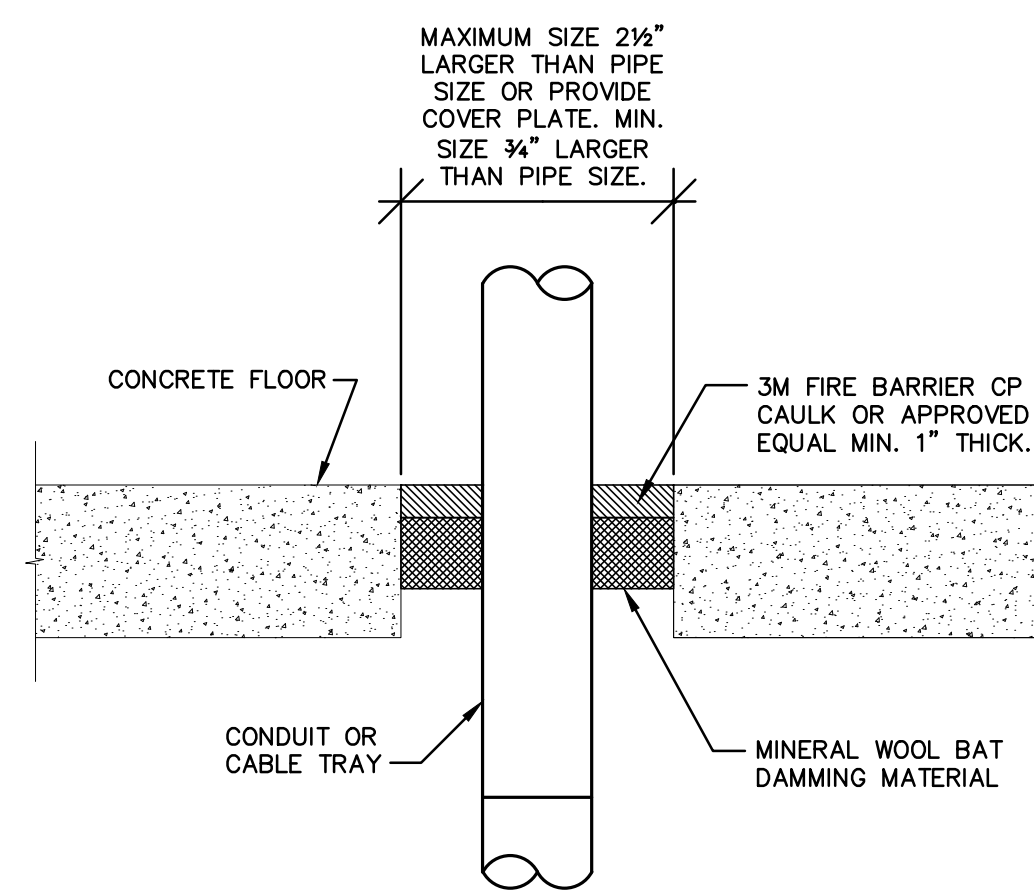
DRAWING

E5.2

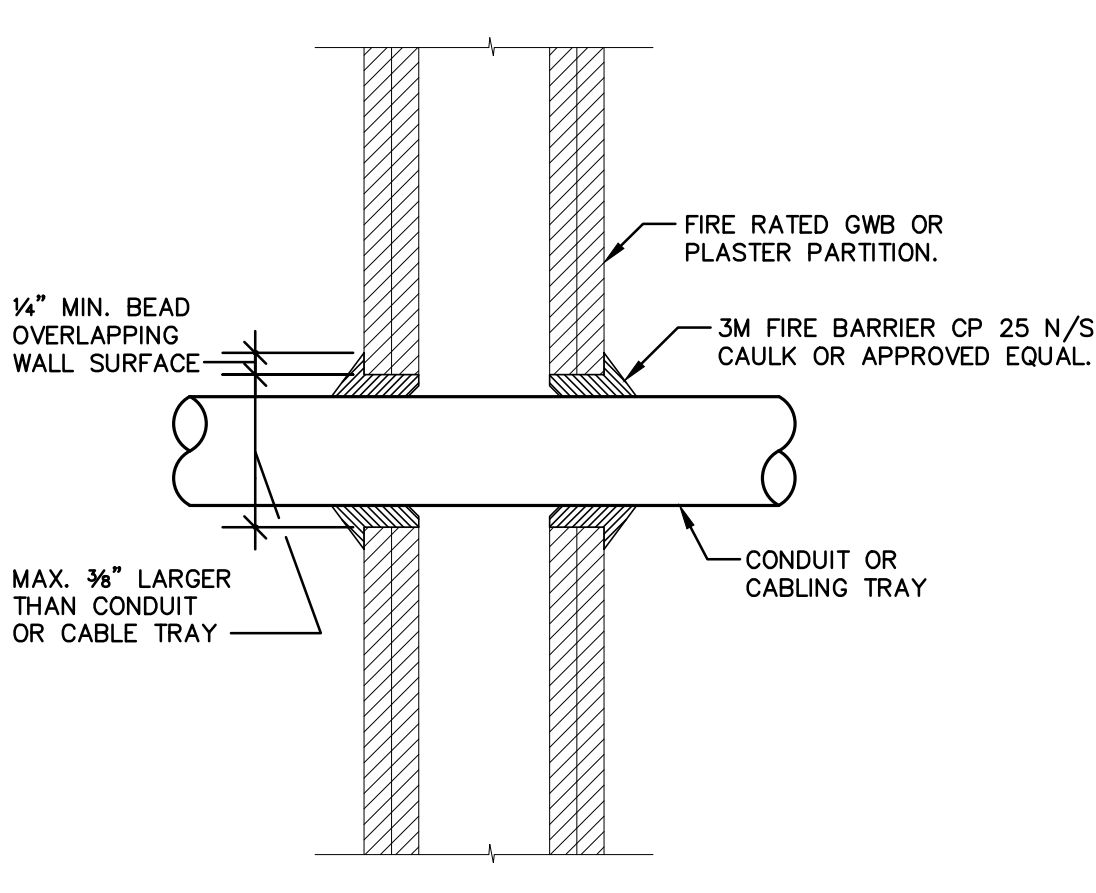
SHEET No. _____



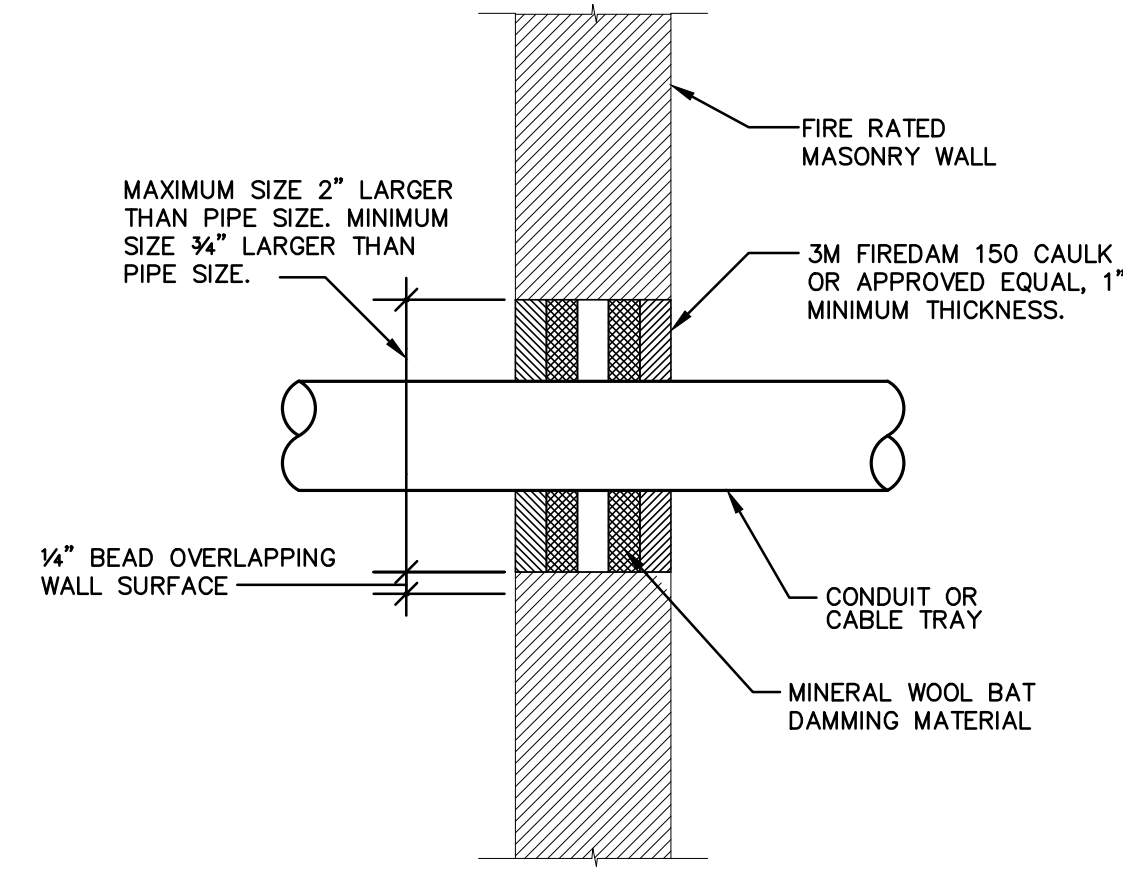
1 KITCHEN POWER PLAN



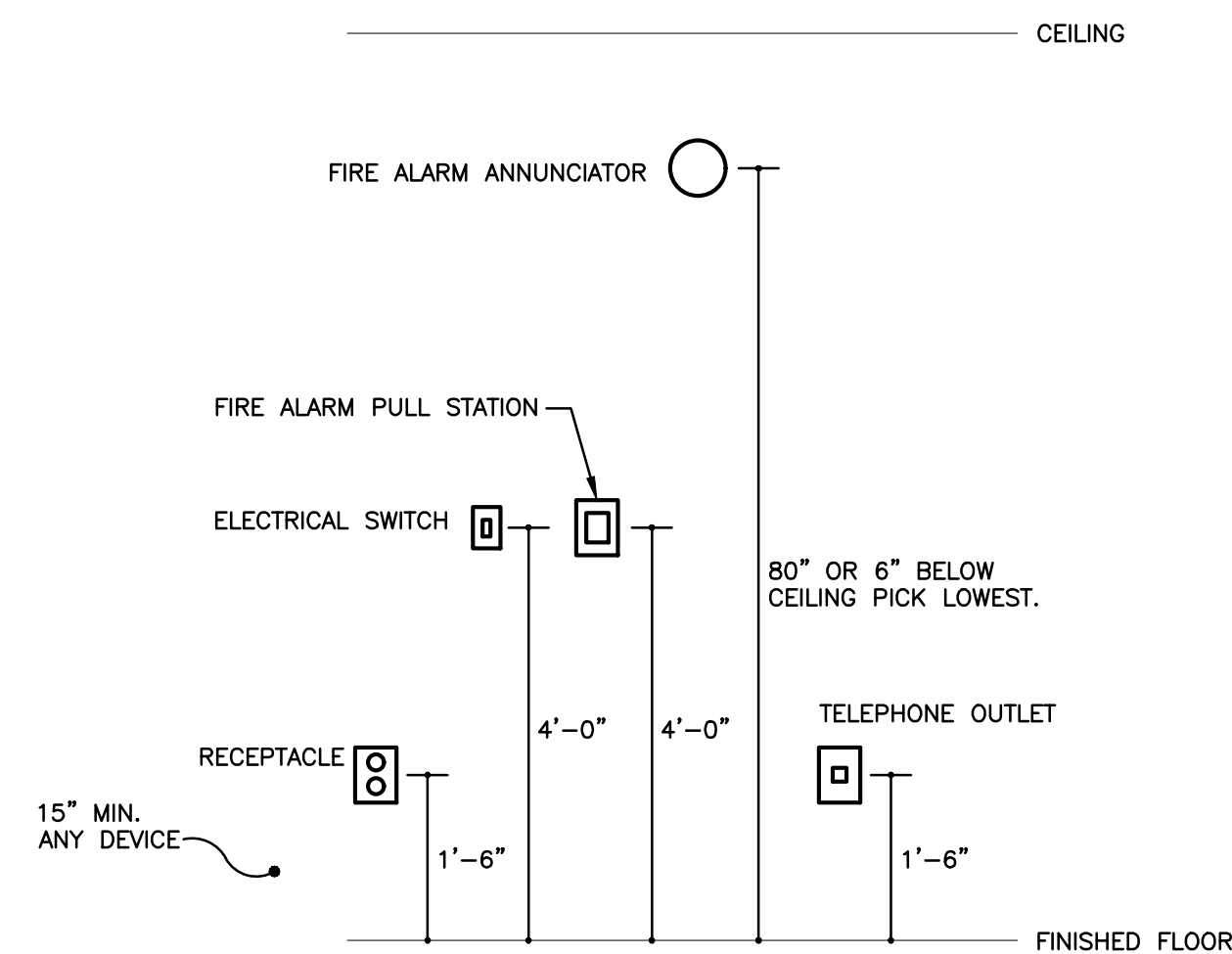
CONDUIT PENETRATION IN FIRE RATED CONCRETE FLOOR



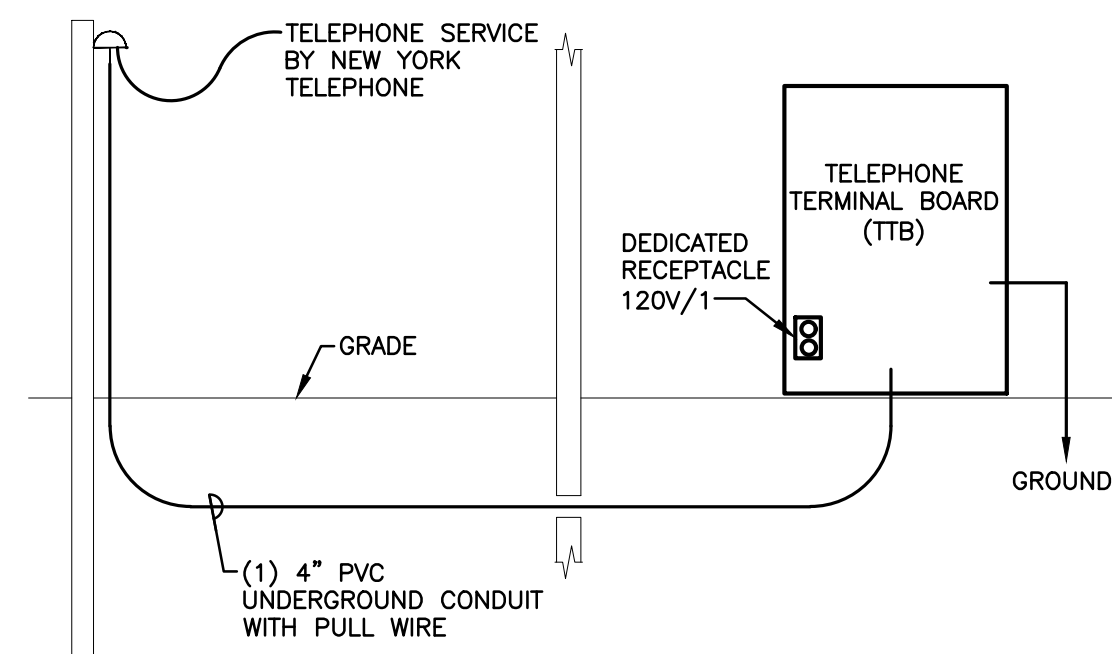
2 CONDUIT PENETRATION IN FIRE
RATED GWB OR PLASTER PARTITION
N.T.S.



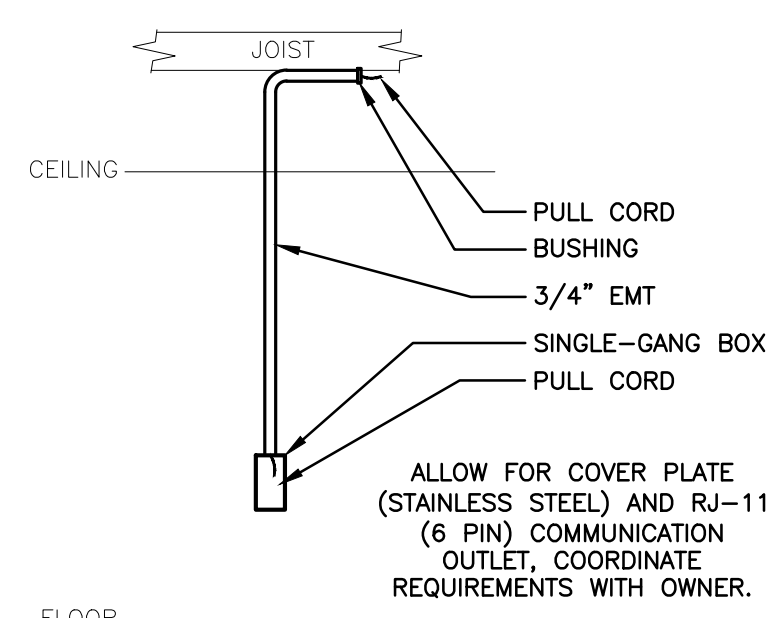
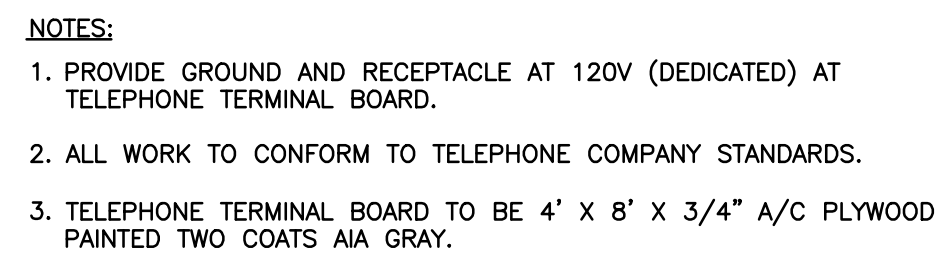
3 CONDUIT PENETRATION
IN FIRE RATED MASONRY PARTITION
N.T.S.



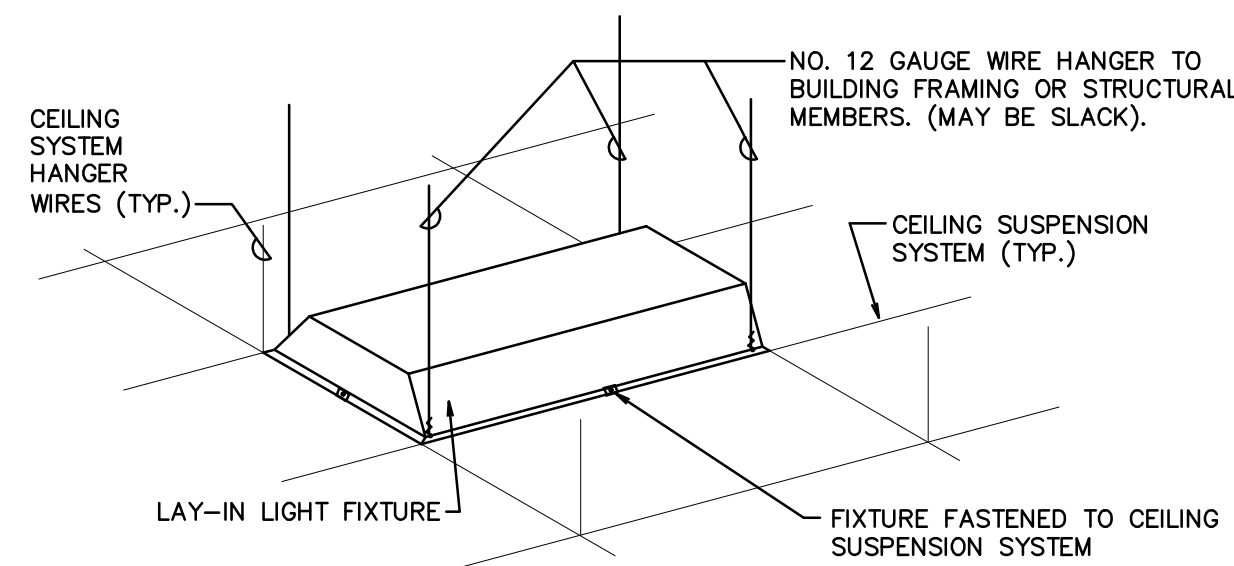
4 MOUNTING HEIGHTS OF ELECTRICAL DEVICES



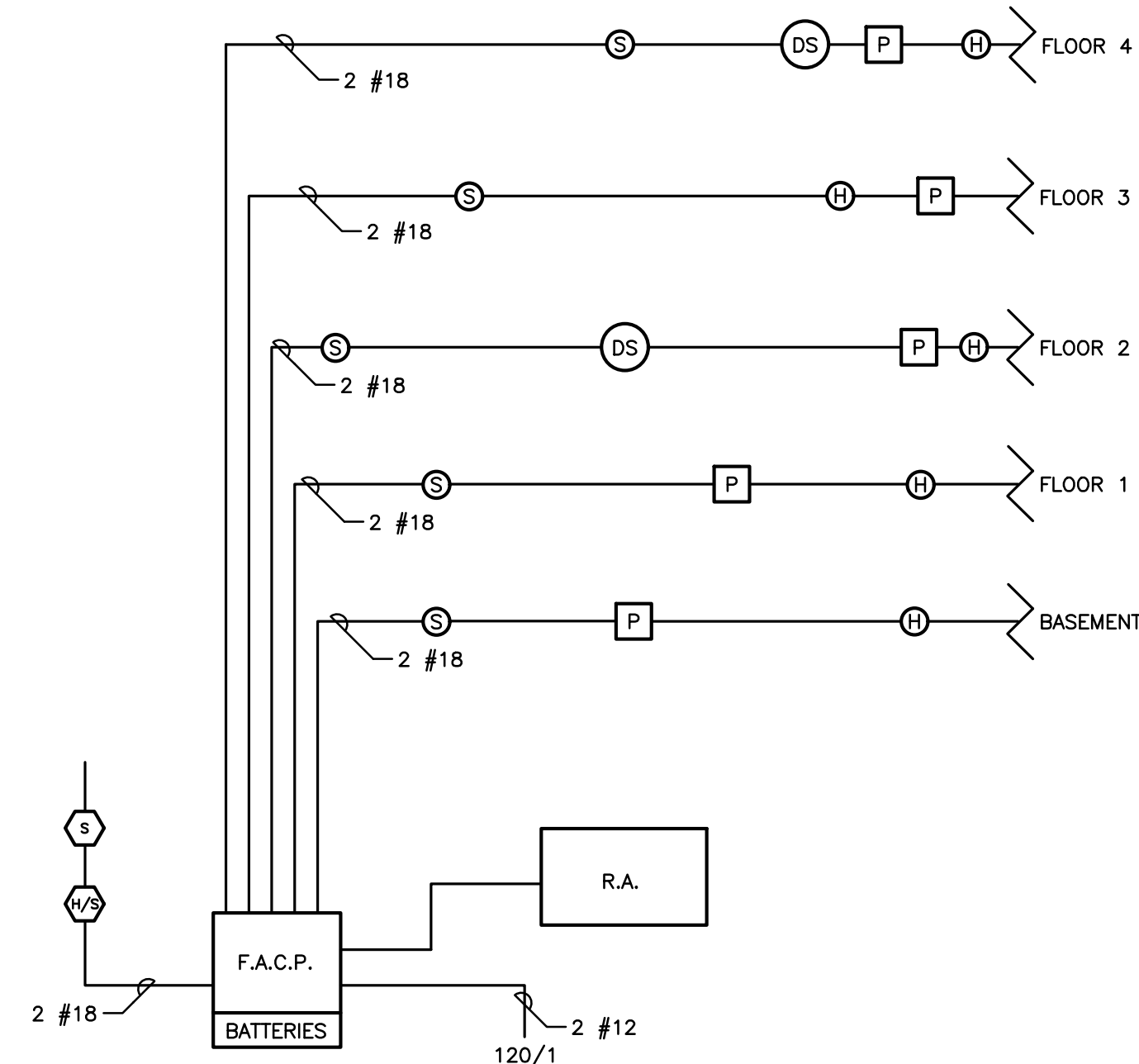
5 TELEPHONE RISER DIAGRAM
N.T.S.



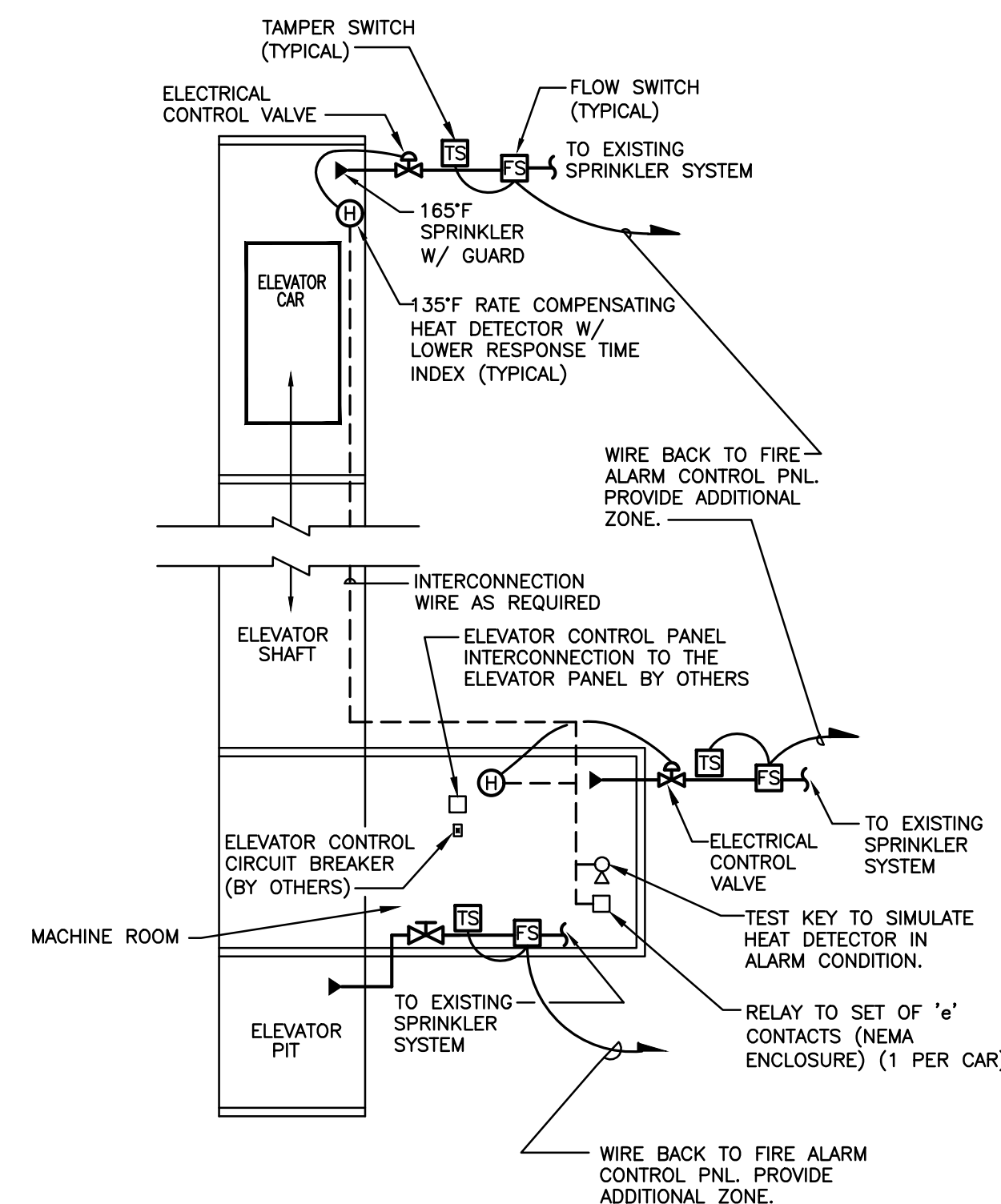
6 COMMUNICATION DETAIL



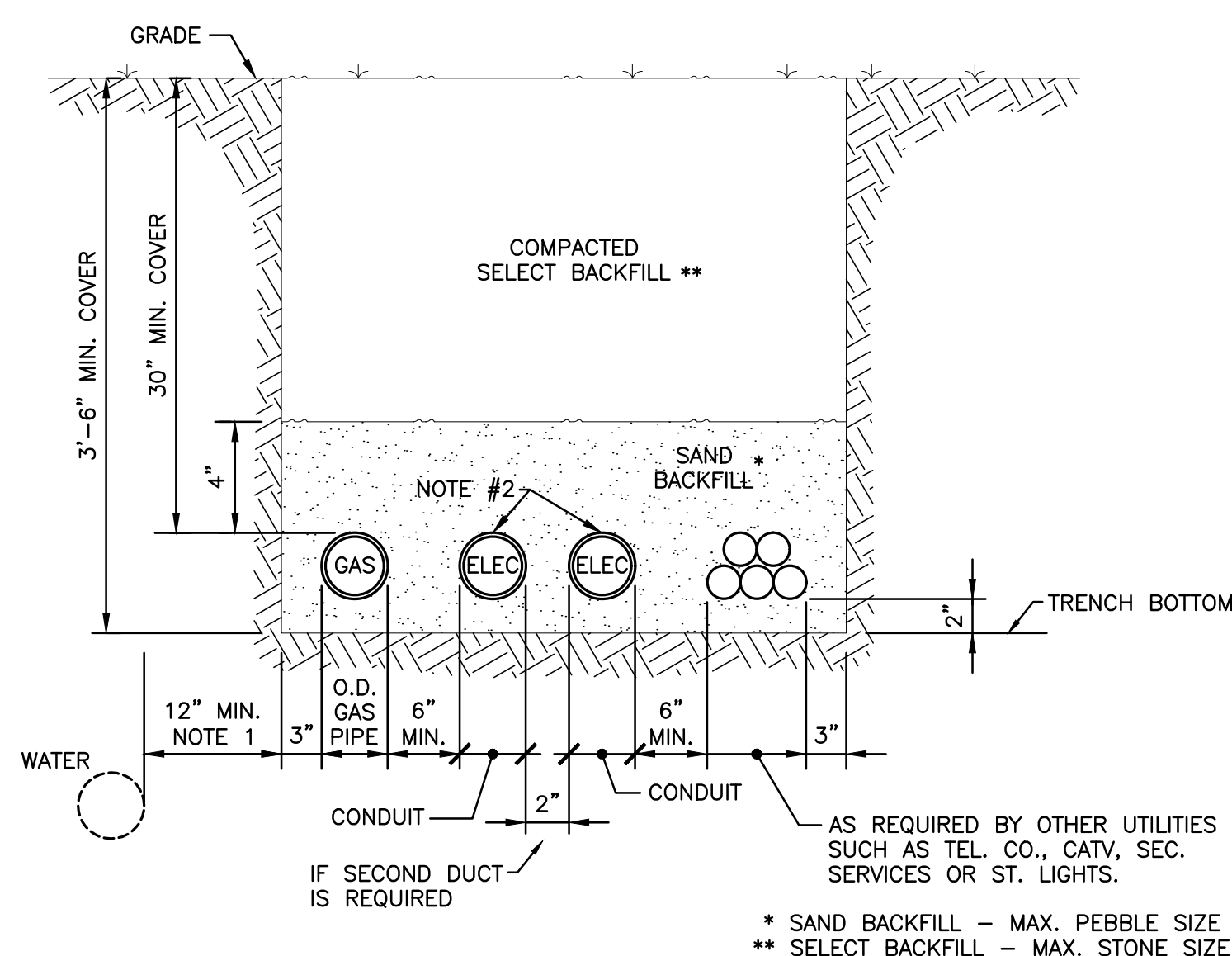
7 LAY-IN LIGHT FIXTURE SUPPORT DETAIL
N.T.S.



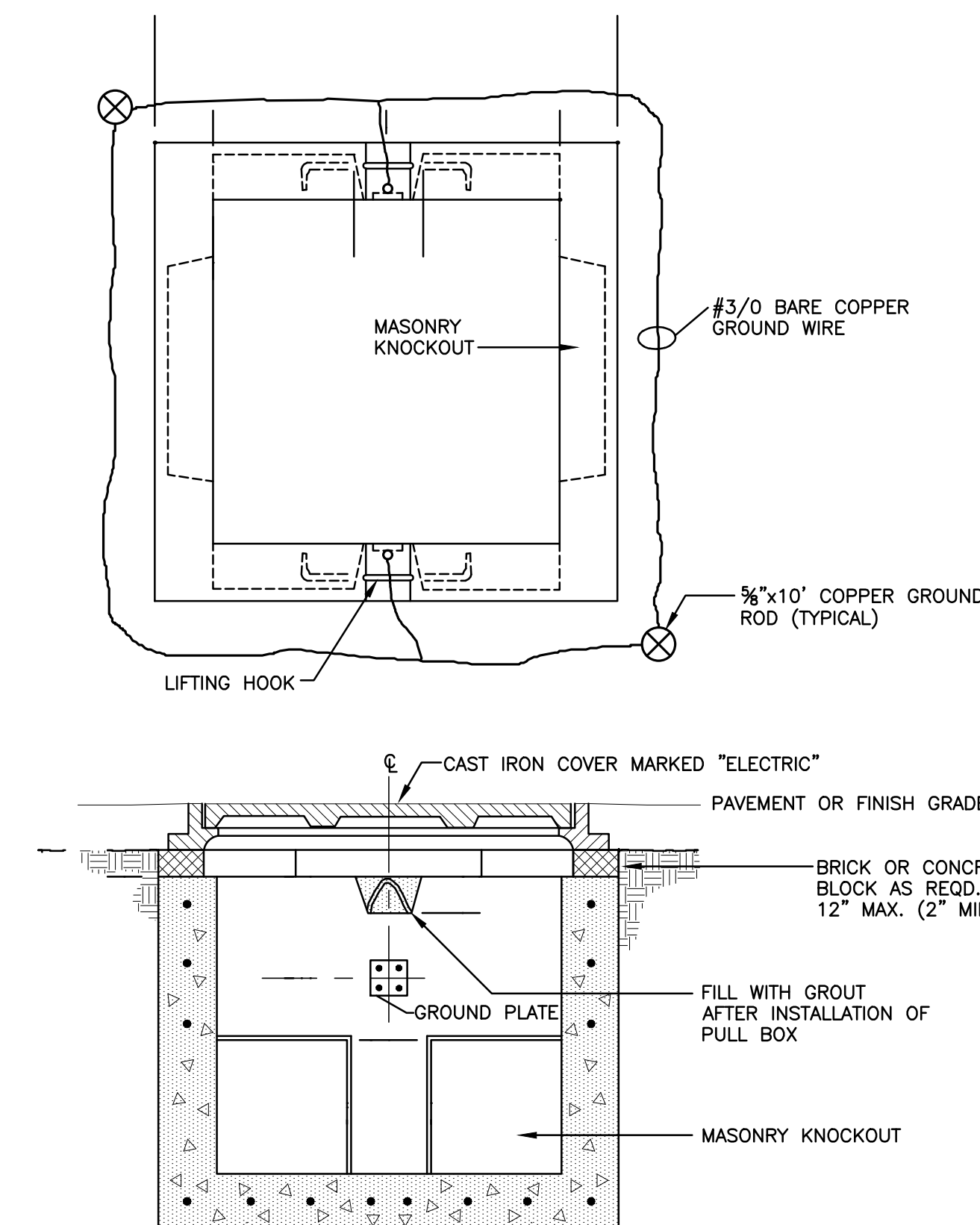
8 FIRE ALARM / DETECTION SYSTEM SCHEMATIC
N.T.S.



9 ELEVATOR SPRINKLER CONTROL SCHEMATIC
N.T.S.



10 TYPICAL COMMON TRENCH CONFIGURATION
N.T.S.



11 PULLBOX DETAIL

[illegible]

Technical drawing of a shielded cable assembly, showing a top view and a side view.

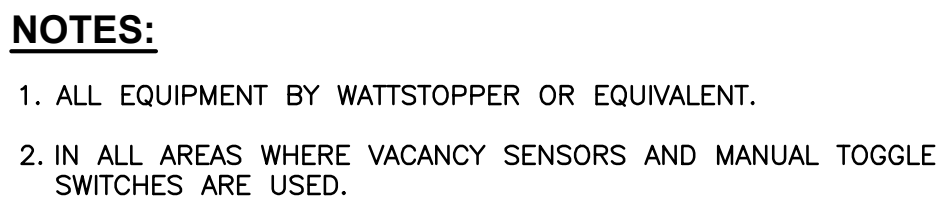
Top View Labels:

- 3/4" X 10'-0" COPPERWELD GROUND ROD (TYP.), CADWELD ALL GROUNDING CONNECTIONS.
- PRIMARY CONDUIT AREA
- A
- B
- D
- E
- H
- I
- F
- G
- #3/0 BARE COPPER GROUND CABLE
- WIRE MESH
- SECONDARY CONDUIT AREA

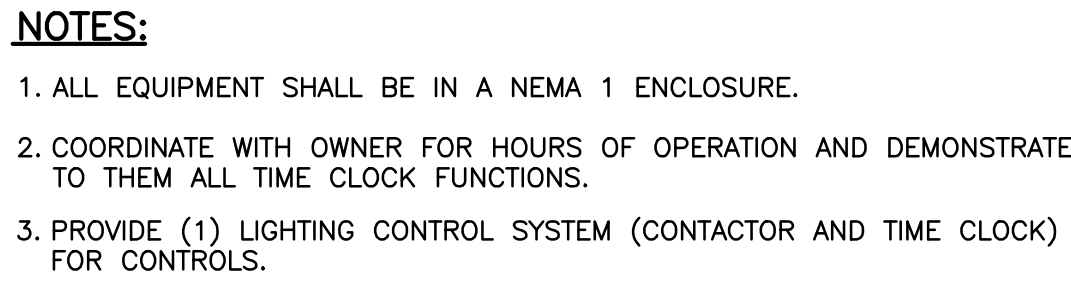
Side View Labels:

- C
- 6"
- WIRE MESH

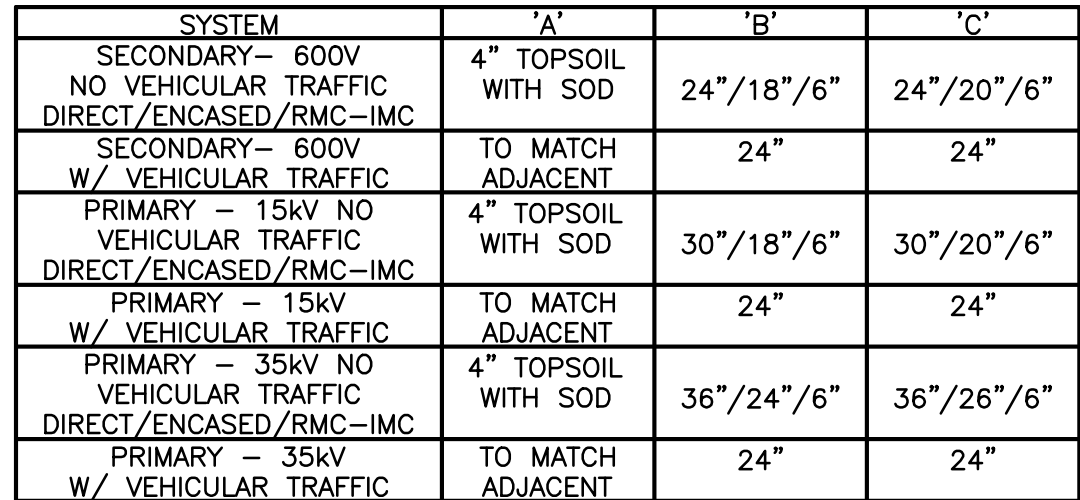
- 1 THREE PHASE TRANSFORMER PAD DETAIL**
N.T.S.



N.T.S.



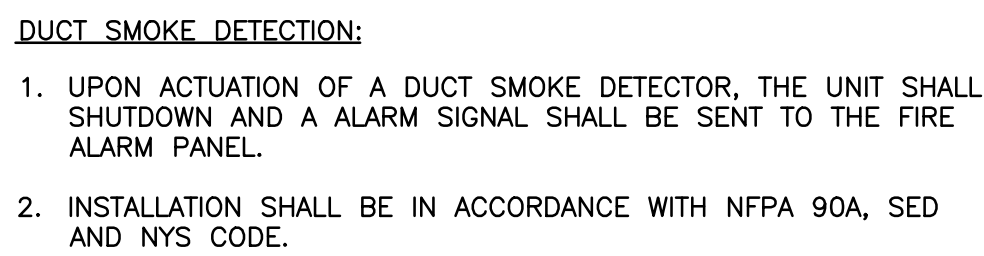
(2) N.T.S



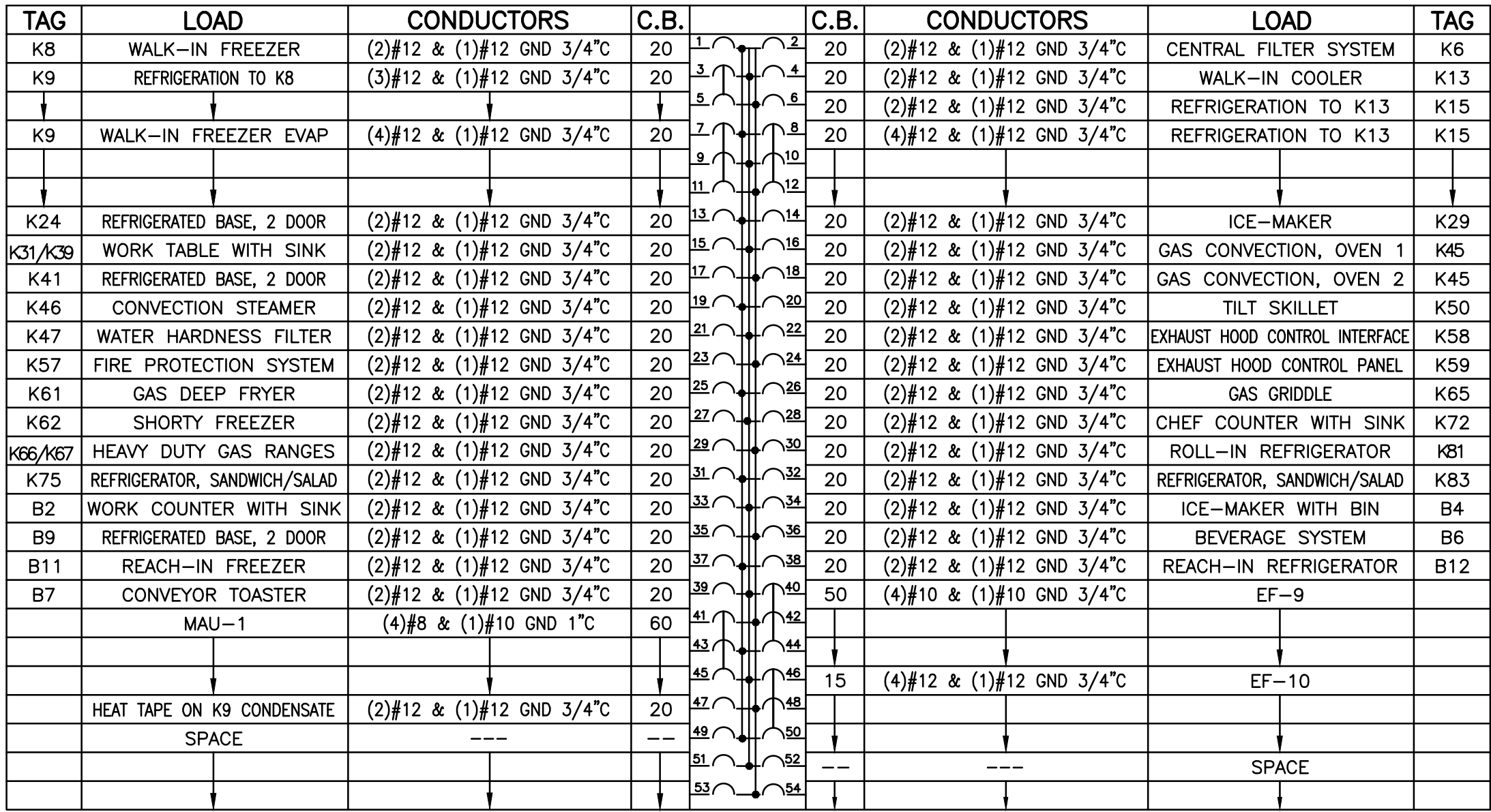
(3) N.T.S



(4) N.T.S.



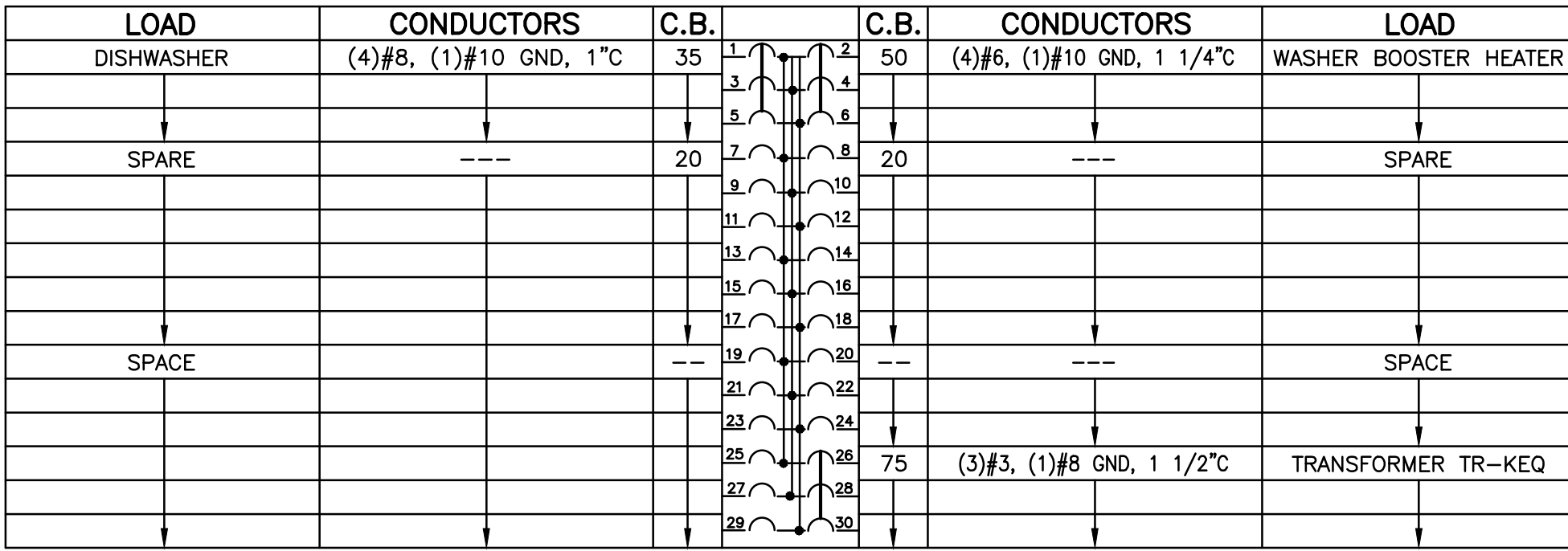
(9) N.T.S.



POWER PANEL - (ELKP-1)

TYPE: SQUARE 'D' NQ
RATING: 208/120V 3ø, 4W
MAINS: 250A MCB
BRANCHES: 10,000 AIC
ENCLOSURE: NEMA 1
POLES: 54

- NOTES:
1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
 2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.
 3. PROVIDE SHUNT TRIP CIRCUIT BREAKER TO BE INTEGRATED WITH KITCHEN FIRE PROTECTION SYSTEM AND BUILDING FIRE ALARM SYSTEM.



NOTES:

1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.

TYPE: SQUARE 'D' NQ
RATING: 208/120V, 3Ø, 4W
MAINS: 200A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 72

NOTES:

1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.

TYPE: SQUARE 'D' NQ
RATING: 208/120V, 3 ϕ , 4W
MAINS: 150A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 54

NOTES:

1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.

TYPE: SQUARE 'D' NQ
RATING: 208/120V, 3 ϕ , 4W
MAINS: 100A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42

NOTES:

1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.

TYPE: SQUARE 'D' NF
RATING: 480/277V, 3Ø, 4W
MAINS: 150A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42

NOTES:

1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.

TYPE: SQUARE 'D' NF
RATING: 480/277V, 3Ø, 4W
MAINS: 150A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42

[illegible]

NY PROFESSIONAL ENGINEER

CLIENT _____

**Braemar at Montebello Assisted
Living Residence**

CONTRACT

SHEET TITLE

DRAWING No.	SHEET No.
-------------	-----------

SHEET No. _____
OF _____

NOTES:

1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.

TYPE: SQUARE 'D' NQ
RATING: 208/120V, 3Ø, 4W
MAINS: 150A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 72

NOTES:

1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.

TYPE: SQUARE 'D' NQ
RATING: 208/120V, 3 ϕ , 4W
MAINS: 100A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42

NOTES:

1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.

TYPE: SQUARE 'D' NQ
RATING: 208/120V, 3 ϕ , 4W
MAINS: 100A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42

NOTES:

1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.

TYPE: SQUARE 'D' NQ
RATING: 208/120V, 3 ϕ , 4W
MAINS: 100A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42

NOTES:

1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.

TYPE: SQUARE 'D' NF
RATING: 480/277V, 3 ϕ , 4
MAINS: 150A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42

NOTES:

1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.

TYPE: SQUARE 'D' NF
RATING: 480/277V, 3Ø,
MAINS: 150A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42

NOTES:

1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.

TYPE: SQUARE 'D' NQ
RATING: 208/120V, 3 ϕ , 4W
MAINS: 150A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 72

NOTES:

1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.

TYPE: SQUARE 'D' NQ
RATING: 208/120V, 3 ϕ , 4W
MAINS: 100A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42

NOTES:

1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
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TYPE: SQUARE 'D' NQ
RATING: 208/120V, 3 ϕ , 4W
MAINS: 100A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42

NOTES:

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TYPE: SQUARE 'D' NQ
RATING: 208/120V, 3Ø, 4W
MAINS: 150A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 72

NOTES:

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TYPE: SQUARE 'D' NQ
RATING: 208/120V, 3Ø, 4W
MAINS: 100A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42

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TYPE: SQUARE 'D' NQ
RATING: 208/120V, 3 ϕ , 4W
MAINS: 100A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42

NOTES:

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2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.

TYPE: SQUARE 'D' NF
RATING: 480/277V, 3Ø, 4W
MAINS: 200A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42

NOTES:

1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.

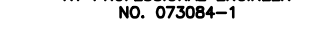
TYPE: SQUARE 'D' NF
RATING: 480/277V, 3 ϕ , 4W
MAINS: 200A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42

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www.fellp.com

Project #: 15-34

DATE	DESCRIPTION
01/24/20	FINAL BID / PERMIT



PROJECT No:	DATE:	SCALE:
FILB 1501	11/15/19	AS SHOWN

CLIENT _____

**Rebello R
GP LLC**

Braemar at Montebello Assisted Living Residence

Montebello Crossing
250 Lafayette Avenue
(Route 59)
Village of Montebello
New York

REGULATORY REVIEW

ELECTRICAL SCHEDULES

58.95

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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NOTES:

1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
2. ALL CIRCUITS SHALL HAVE FULL SIZE INSULATED GREEN GROUND UNLESS OTHERWISE NOTED.

TYPE: SQUARE 'D' NQ
RATING: 208/120V, 3Ø, 4W
MAINS: 150A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 72

NOTES:

1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
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TYPE: SQUARE 'D' NQ
RATING: 208/120V, 3Ø, 4W
MAINS: 150A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42

NOTES:

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TYPE: SQUARE 'D' NQ
RATING: 208/120V, 3Ø, 4W
MAINS: 100A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42

NOTES:

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RATING: 208/120V, 3Ø, 4W
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TYPE: SQUARE 'D' NF
RATING: 480/277V, 3 ϕ , 4W
MAINS: 200A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42

NOTES:

1. ALL WIRE SHALL BE DUAL RATED THHN/THWN COPPER CONDUCTOR UNLESS OTHERWISE NOTED.
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TYPE: SQUARE 'D' NF
RATING: 480/277V, 3Ø, 4W
MAINS: 200A MCB
BRACING: 22 KAIC
ENCLOSURE: NEMA 1
POLES: 42