GENERAL ELECTRICAL NOTES: (UNUSED NOTE NUMBERS ARE "NOT USED")

- ELECTRICAL CONTRACTOR SHALL VISIT SITE AND VERIFY EXISTING ELECTRICAL INSTALLATION AND NEW DESIGN PRIOR TO BID.
- 2. ELECTRICAL CONTRACTOR SHALL, AT NO ADDITIONAL COST TO THE OWNER, DISCONNECT AND RECONNECT ALL EXISTING ELECTRICAL INSTALLATIONS IN CONFLICT WITH NEW CONSTRUCTION.

4. 5.

9. EXISTING CONDITION SHOWN ON DRAWINGS ARE TAKEN FROM PAST DESIGN DRAWINGS AND VISUAL FIELD INVESTIGATION. PRIOR TO START OF CONSTRUCTION, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS SHOWN. DEVIATIONS SHALL BE SHOWN ON AS-BUILT DRAWINGS.

10.

12. REFINISH AND PATCH TO MATCH ALL EXISTING WALL AND CEILING SURFACES DAMAGED OR SCRATCHED BY ELECTRICAL REMOVAL AND INSTALLATION WORK. NEW TOUCH-UP PAINT WORK SHALL BLEND INTO AND MATCH EXISTING FINISH.

16. THE TERM "WIRING" SHALL INCLUDE RACEWAY, CONDUCTORS, EQUIPMENT, AND WIRING.

14.

17. THE TERM "PROVIDE" SHALL MEAN "FURNISH AND INSTALL".

10

ELECTRICAL SYMBOL LIST

		ELECTRICAL SYMBOL LIST							
EXISTING	NEW	EW DESCRIPTION							
├ -~1		LIGHT, CEILING SURFACE MOUNTED, RECESSED OUTLET BOX.							
©====		LIGHT, CEILING SURFACE MOUNTED.							
		LIGHT, CEILING SURFACE MOUNTED, ON EMERGENCY CIRCUIT.							
\bigcirc		LIGHT, CEILING SURFACE MOUNTED.							
(3)		NIGHT LIGHT, CEILING SURFACE MOUNTED.							
(E)		OUTLET/JUNCTION BOX, CEILING MOUNTED, OTHERWISE SPECIFIED.							
(<u>C)</u>		OUTLET/JUNCTION BOX, WALL MOUNTED, 2-GANG BOX, UNLESS OTHERWISE SPECIFIED.							
		ELECTRIC PANEL.							
— е —		RACEWAY, CONCEALED, NUMBER OF HASHMARKS INDICATE NO HASHMARKS INDICATES NUMBER OF WIRES WITHIN. TWO WIRES WITHIN.							
		RACEWAY, CONCEALED ABOVE FINISH FLOOR, NUMBER OF HASHMARKS INDICATE NO HASHMARKS INDICATES TWO WIRES WITHIN.							
e		EXPOSED RACEWAY.							
— e →		ARROW, HOMERUN TO PANEL OR CABINET, NUMBER OF HASHMARKS INDICATE NO HASHMARKS INDICATES TWO WIRES WITHIN.							
2>-	2-	ELECTRICAL NOTE INDICATOR.							
	A 36	FIXTURE INDICATOR UPPER HALF: FIXTURE TYPE. LOWER HALF: WATTS.							
	2 E-2	DETAIL INDICATOR UPPER HALF: DETAIL NUMBER. LOWER HALF: SHEET NUMBER, DETAIL LOCATION.							

ABBREVIATIONS LIST

AMPERES	l Di
	I I
AIR CONDITIONING	DMF
ALTERNATING CURRENT	
AIR-COOLED CONDENSING UNIT	DF
AMERICANS WITH DISABILITIES ACT	
ADMINISTRATION	E
ADJACENT	El
ABOVE FINISHED COUNTER	EL
ARC FAULT CIRCUIT INTERRUPTER	EL
ABOVE FINISH FLOOR	E
ABOVE FINISH GRADE	EN
ABOVE FINISH SLAB	E
AIR HANDLING UNIT	EV
AMPERE INTERRUPTING CAPACITY	E\
AMERICAN NATIONAL STANDARDS INSTITUTE	E
ARCHITECT	EQ
AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS	EX
AMERICAN WIRE GAUGE	FA
BARE COPPER	FA
BUILDING	'\rac{1}{FA}
BACKBOARD	F(
CONDUIT	
COMMUNITY ACCESS TELEVISION	
COMMUNICATION HANDHOLE	FIN
CHILLED WATER PUMP	FIN
CIRCUIT	FIIN
CIRCUIT BREAKERS	G
CENTER LINE	G/
CURFEW LIGHTS	GI
CONCRETE MASONRY UNIT	G
COMMUNICATIONS PULLBOX	G
COAXIAL CABLE	
COMMUNICATION	<u> '</u> HI
CONCRETE	<u> </u>
CONTINUE	
CONTRACTOR	
CENTER	
CONTROL	
CURRENT TRANSFORMER	K
COPPER	K
DEEP	<u> </u>
DIRECT CURRENT	K'
DEPARTMENT	L
DIAMETER	L
DIAGRAM	M.
DISCONNECT	. M
D10001111201	M(
	AIR-COOLED CONDENSING UNIT AMERICANS WITH DISABILITIES ACT ADMINISTRATION ADJACENT ABOVE FINISHED COUNTER ARC FAULT CIRCUIT INTERRUPTER ABOVE FINISH GRADE ABOVE FINISH GRADE ABOVE FINISH GRADE ABOVE FINISH SLAB AIR HANDLING UNIT AMPERE INTERRUPTING CAPACITY AMERICAN NATIONAL STANDARDS INSTITUTE ARCHITECT AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR CONDITIONING ENGINEERS AMERICAN WIRE GAUGE BARE COPPER BUILDING BACKBOARD CONDUIT COMMUNITY ACCESS TELEVISION COMMUNICATION HANDHOLE CHILLED WATER PUMP CIRCUIT CIRCUIT BREAKERS CENTER LINE CURFEW LIGHTS CONCRETE MASONRY UNIT COMMUNICATIONS PULLBOX COAXIAL CABLE COMMUNICATION CONCRETE CONTROL CURRENT TRANSFORMER COPPER DIRECT CURRENT DEPARTMENT DIAGRAM

	ABBREVIATIONS LIST
DMR	DIMMER
DMR SW	DIMMER SWITCH
DN	DOWN
DPW	DEPARTMENT OF PUBLIC WORKS
DS	DOWNSPOUT
EF	EXHAUST FAN
EHH	ELECTRIC HANDHOLE
ELEC	ELECTRIC
ELEV	ELEVATOR
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EPB	ELECTRIC PULLBOX
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EQ	EQUAL
EQUIP	EQUIPMENT
EXST	EXISTING
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAPB	FIRE ALARM PULLBOX
FCU	FAN COIL UNIT
FLR	FLOOR
FIN	FINISH
FIN FLR	FINISH FLOOR
FIN GR	FINISH GRADE
FT	FEET
GAL	GALLON
GALV	GALVANIZED
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GRD	GROUND
GRS	GALVANIZED RIGID STEEL
Н	HIGH
HDG	HOT-DIP GALVANIZED
HHG	HANDHOLE GROUP
HWRP	HOT WATER RETURN PUMP
JB	JUNCTION BOX
K	KELVIN
KW	KILOWATT
KWH	KILOWATT HOUR
KV	KILO VOLT
KVA	KILO-VOLT AMPERE
LTG	LIGHTING
LTS	LIGHTS
MAX	MAXIMUM
MCA	MINIMUM CIRCUIT AMPACITY
MCM	THOUSANDS OF CIRCULAR MILS

MIN MIN MISC MIS MOCP MA MTD MO MTG MO NEC NA NEMA NA NFC NA NL NIG OC ON P PO PB PU PFB PR PH PH PL PR PNL PAI PREF PR PSI PO PVC PO RECEP RE RGS RIG RM RO SPEC SP SQ SQ STL STI SST ST SW SWBD SW SWBD SW SWBD SW SWBR SW SWBR SW SWBR SW SWBR SW TEL TEI TPB TEI TYP TYI UPS UN	NHOLE NIMUM SCELLANEOUS XIMUM OVER-CURRENT PROTECTION DEVICE DUNTED DUNTING TIONAL ELECTRICAL CODE TIONAL FIRE CODE GHT LIGHT I CENTER LE LLBOX OVISION FOR FUTURE BREAKER ASE OPERTY LINE NEL EFERENCE UND-FORCE PER SQUARE INCH LYVINYL CHLORIDE CEPTACLE GID GALVANIZED STEEL IOM ECIFICATION
MISC MISS MOCP MAN MTD MOC MTG MOC NEC NA NEMA NA NFC NA NL NIC OC ON P PO PB PU PFB PR PH PH PL PR PNL PAI PREF PR PSI PO PVC PO RECEP RE RGS RIC RM RO SPEC SP SQ SQ STL STI SST ST SW SWBD SW SWBD SW SWBR SW SWBR SW SWBR SW TEL TEI TPB TEI TYP TY UPS UN	EXIMUM OVER-CURRENT PROTECTION DEVICE DUNTED DUNTING TIONAL ELECTRICAL CODE TIONAL FIRE CODE SHT LIGHT I CENTER LE LLBOX OVISION FOR FUTURE BREAKER ASE OPERTY LINE NEL EFERENCE UND-FORCE PER SQUARE INCH LYVINYL CHLORIDE CEPTACLE GID GALVANIZED STEEL
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PH PH. PL PROPERTY PAINTS PREF PROPERTY POOR POOR POOR POOR POOR POOR POOR POO	ASE OPERTY LINE NEL EFERENCE UND-FORCE PER SQUARE INCH LYVINYL CHLORIDE CEPTACLE GID GALVANIZED STEEL
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PNL PAI PREF PR PSI PO PVC PO RECEP REE RGS RIG RM RO SPEC SPE SQ SQ STL STI SST STE SW SW SWBD SW SWBD SW SWBR SW TEL TEI TPB TEI TYP TYE UPS UN	NEL EFERENCE UND-FORCE PER SQUARE INCH LYVINYL CHLORIDE CEPTACLE GID GALVANIZED STEEL
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RECEP RERECT RESERVENCE RESERVENC	CEPTACLE GID GALVANIZED STEEL OM
RGS RIG RM RO SPEC SPI SQ SQ STL STI SST STA SW SW SWBD SW SWBK SW SWGR SW TEL TEI TPB TEI TYP TYI	GID GALVANIZED STEEL OM
RM RO SPEC SPI SQ SQ STL STI SST ST, SW SW SWBD SW SWBR SW TEL TEI TPB TEI TYP TYI UPS UN	OM
SPEC SPI SQ SQ STL STI SST ST/ SW SW SWBD SW SWBK SW SWGR SW TEL TEI TPB TEI TYP TYI UPS UN	
SQ SQ STL STI SST ST, SW SW SWBD SW SWBK SW SWGR SW TEL TEI TPB TEI TYP TYI UPS UN	ECIFICATION
STL STI SST STA SW SW SWBD SW SWBK SW SWGR SW TEL TEI TPB TEI TYP TYI UPS UN	
SST STA SW SW SWBD SW SWBK SW SWGR SW TEL TEI TPB TEI TYP TYI UPS UN	UARE
SW SW SWBD SW SWBK SW SWGR SW TEL TEI TPB TEI TYP TYI UPS UN	 EEL
SWBD SW SWBK SW SWGR SW TEL TEI TPB TEI TYP TYI UPS UN	AINLESS STEEL
SWBK SW SWGR SW TEL TEI TPB TEI TYP TYI UPS UN	/ITCH
SWGR SW TEL TEI TPB TEI TYP TYI UPS UN	/ITCHBOARD
TEL TEI TPB TEI TYP TYI UPS UN	/ITCHBANK
TEL TEI TPB TEI TYP TYI UPS UN	/ITCHGEAR
TPB TEI TYP TYI UPS UN	LEPHONE
TYP TYI	LEPHONE PULLBOX
UPS UN	PICAL
	INTERRUPTIBLE POWER SUPPLY
v v O	PLTS
VAV VA	RIABLE AIR VOLUME
	RIABLE FREQUENCY DRIVE
	DLTS-DIRECT CURRENT
	ATT
W WII	
W WII	DE
WP WE	

E-001

ELECTRICAL SPECIFICATIONS (UNUSED SPECIFICATION NUMBERS/LETTERS ARE "NOT USED")

1. GENERAL REQUIREMENTS

Division One, "General Requirements", is hereby made a part of this

- a. Intent of Specifications and Drawings:
- (1) Specifications and Drawings are prepared in abbreviated form and includes incomplete sentences. Omission of words or phrases such as "the contractor shall", "as shown on the drawings", "a", "an", and "the" are intentional. Omitted words and phrases shall be provided by inference to form complete sentences.
- (2) Specifications and Drawings complement each other and what is specified, scheduled or mentioned by one shall be binding as if called for by both. Specifications and Drawings are intended to specify nature, quantity, and quality of work.
- (3) Before bidding, contractor shall visit project site and carefully review Specifications and Drawings. Any error or omissions shall be reported to Architect at least 10 days before submission of bids for interpretation or clarification. If no report is received, the Contractor is presumed to be aware of the error or omission and will provide the necessary material and labor to satisfy the intent of this Contract.
- b. Definitions:
- (1) "Provide" means "Furnish and install".
- (2) "Wiring" means "provide all raceways, conductors, devices, protective equipment, etc., for complete electric circuit or system.

2. SCOPE OF WORK

- a. Provide all articles, materials, equipment, operations and services specified herein or on Drawings, including all labor, taxes, fees, insurance and incidentals required to insure completion.
- b. Work shall include but shall not be limited to:
- (1) Complete disconnecting and removal of existing electrical panel and feeder wires as shown on plans.
- (2) Complete disconnecting and removal of existing circuit breaker as shown on plans.
- (3) Complete new electrical panel, feeder wires, and circuit breaker as shown on plans.
- c. Test installation and remove, at no cost to Owner, all faulty equipment and workmanship. Guarantee for one year after final acceptance, all materials and workmanship.

4. APPLICABLE CODES AND REGULATIONS

a. Entire installation to be made in strict accordance with applicable provisions of 2020 edition of National Electrical Code, Local Ordinances, and rules and regulations of City and County of Honolulu.

5. MATERIALS

a.

- b. Wires: 600 volts, No. 12 AWG minimum, copper conductored, THHN; No. 4 and larger THHN or XHHW. Manufacture and install
- THHN; No. 4 and larger THHN or XHHW. Manufacture and instactoring to NEC Article 300 and 310.
- d.
- f. Individual Circuit Breaker: Molded plastic case circuit breaker with toggle operated mechanism thermal—magnetic overload trips. Interchangeable trip shall be provided when available. Toggle positions "ON", "TRIPPED", and "OFF", engraved on body or toggle. Manufacture and install according to NEC Article 240. New circuit breaker shall be compatible to fit into existing panelboards.

h. Hardware, Support, Backing, etc.: Provide all hardware, supports,

6. GROUNDING

equipment.

Motors, metallic enclosures, raceways and electrical equipment shall be grounded according to requirements of National Electrical Code, Article 250.

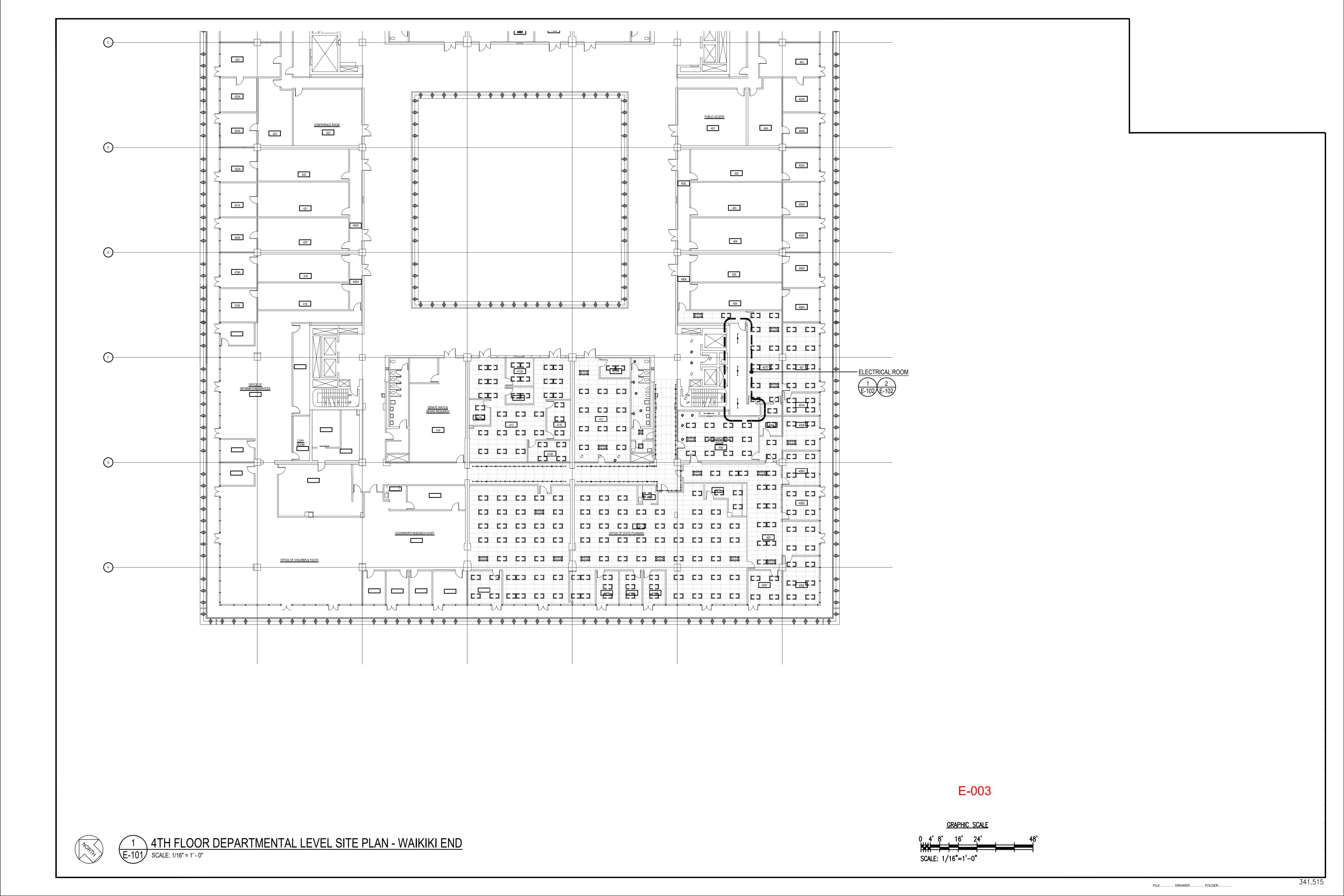
backing, and other accessories necessary to install electrical

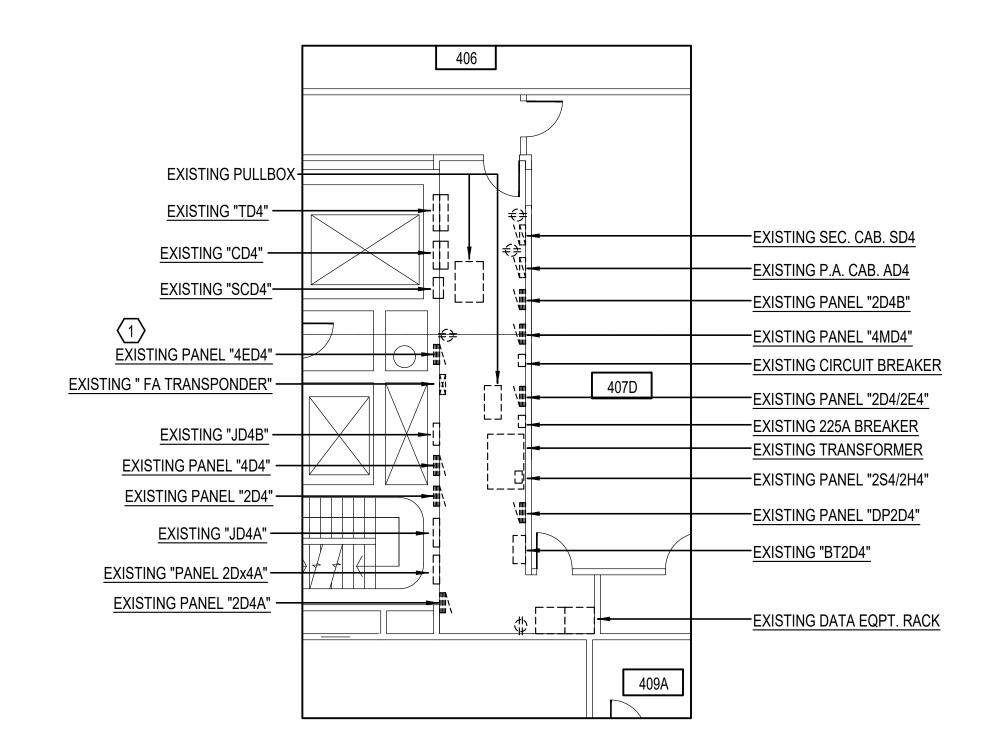
- 7. FINISHING
- a.
- b.
- c.
- d. Complete all panel directories with typewriter.
- e. Identify panelboards by nameplates on door, including voltage and designation. Stencil voltage rating on front of disconnect switches and junction boxes where wires are terminated for connection to equipment that is not part of contract.
- f. Nameplates: Laminated plastic, black/white, engraved with 3/16" high commercial letters to expose white. Screw mounted. Impression type adhesive tapes not acceptable.

8. WORKMANSHIP

- a. Conform to construction practices as recommended by the American Electricians Handbook by Croft (latest edition), Edison Electric Institute, regulations of Building Department, City and County of Honolulu and applicable instructions of manufacturers of equipment and materials supplied for this project.
- b. Workmanship shall be subject to the approval of Architect who shall be afforded every opportunity to determine skill and competency. Concealed work reopened at random during final inspection by Architect at no additional cost to Owner.
- d. Installation shall be complete in every detail and ready for use. Any item supplied by Contractor developing defects within one (1) year after final acceptance by Architect shall be replaced by such materials, apparatus or parts including installation labor to make such defective portion of complete system conform to true intent and meaning of drawings and specifications at no additional charge to Owner.

E-002



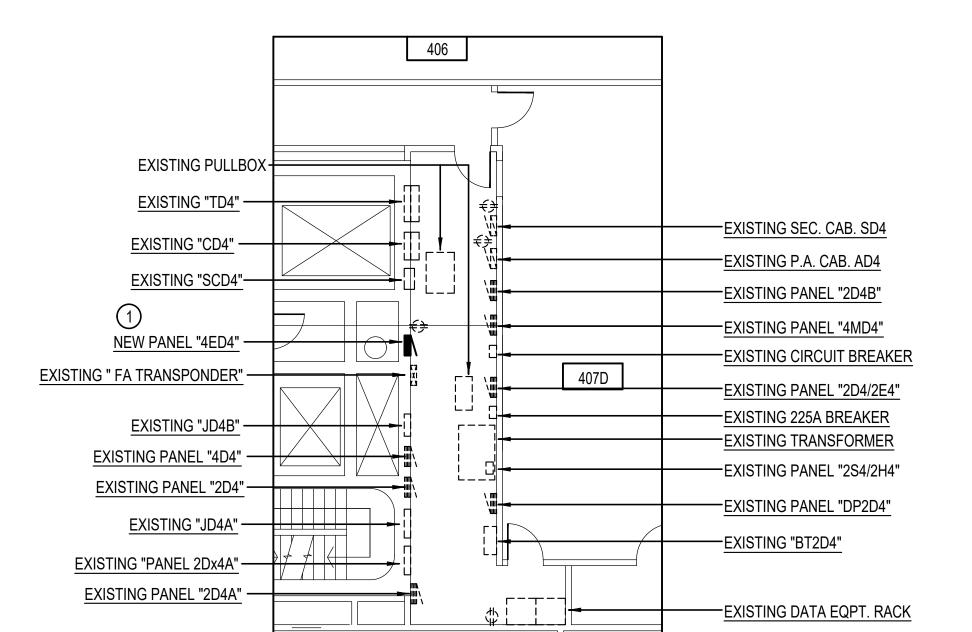


GRAPHIC SCALE

0 2' 4' 6' 8' 16' 24

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

1 4THFLOOR (DEPARTMENTAL)- EXISTING/REMOVAL WORK
E-201 SCALE: 1/8" = 1' - 0"



409A

ELECTRICAL NOTES: EXISTING/NEW WORK

ELECTRICAL NOTES: EXISTING/REMOVAL WORK

DISCONNECT AND REMOVE EXISTING ELECTRICAL PANEL. EXISTING BRANCH CIRCUIT WIRING TO REMAIN.

CHIP EXISTING WALL AS REQUIRED TO INSTALL NEW ELECTRIC PANEL. CONNECT EXISTING BRANCH CIRCUIT WIRING TO NEW PANEL. PROVIDE ADDITIONAL WIRING AS REQUIRED. CONTRACTOR TO TRACE AND VERIFY EXISTING CIRCUITS. PATCH WALL TO MATCH EXISTING CONDITION. UPDATE PANEL SCHEDULE TO REFLECT AS-BUILT CONDITIONS.

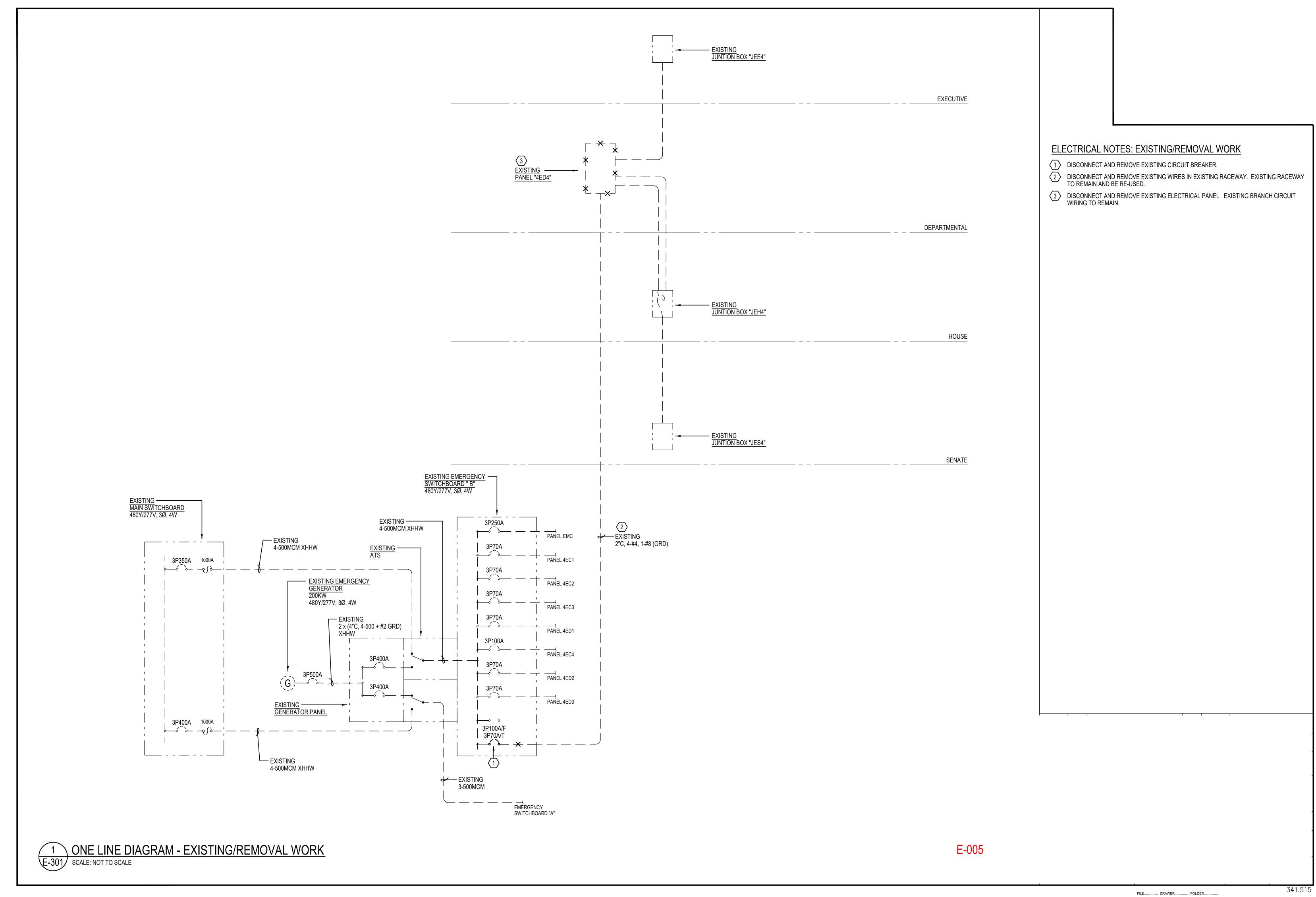
E-004

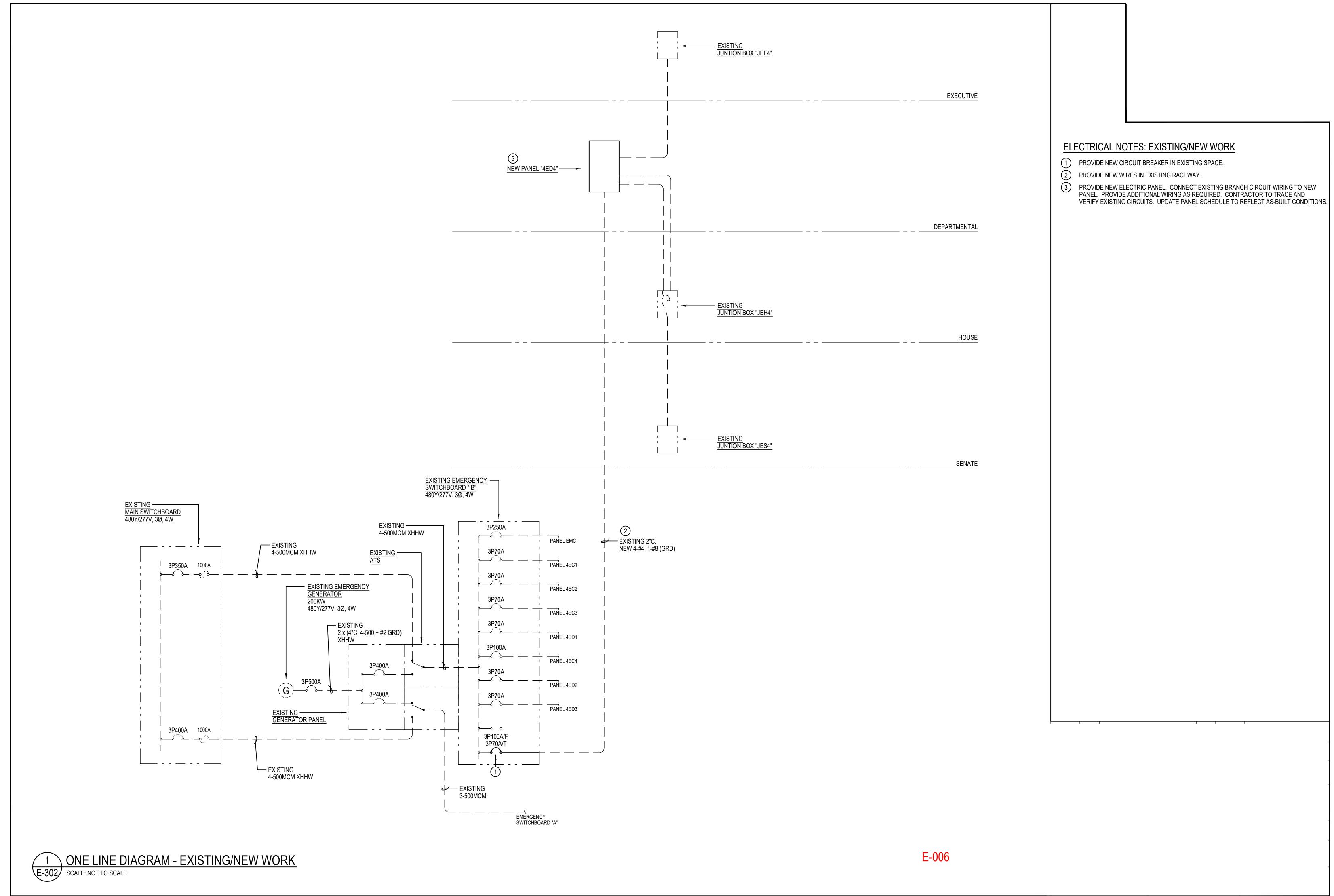
GRAPHIC SCALE

0 2' 4' 6' 8' 16' 24

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







341.515

EXI	STING PANEL "4ED4" SCHEDULE	BRE	EAKER N	IIN. A.I.C	PHASES C. 10,000 MAIN LUC	•	
CKT.	1105	CIR	CUIT AKER		CONNECTED LOAD (KVA)	1	WIRE
NO.	USE	POLES	AMPS	A	B B	С	SIZE
1	LIGHTS - SEN CORR 4 AREA	1	20	2.8			12
2	LIGHTS - EXEC SEN HOUSE DEPT	1	20	2.8			12
3	LIGHTS - HOUSE CORR 4 AREA	1	20		2.8		12
4	LIGHTS - EXEC SEN HOUSE DEPT	1	20		2.8		12
5	LIGHTS - DEPT CORR 4 AREA	1	20			2.8	12
6	LIGHTS -	1	20			2.0	12
7	LIGHTS - EXEC CORR 4 AREA	1	20	2.8			12
8	PFB	1					
9	PFB	1					
10	PFB	1					
11	PFB	1					
12	PFB	1					
PFB -	PROVISION FOR FUTURE BREAKER TOTA	L LOAD/ PHAS	E	8.4	5.6	4.8	
	TOTAL LOA			18.8	KVA		
	DEMAND FA			1.0			
	DEMA	AND LOAD		18.8	KVA		

NEW PANEL "4ED4" SCHEDULE BREAKI					ЛIN. Á.I.C	PHASES C. 10,000 MAIN LUC	,	
CKT. NO.	USE		BRE	CUIT AKER	CONNECTED LOAD (KVA)			WIRE SIZE
	LIQUITO CEN CORR A AREA		POLES	AMPS	A	В	С	
1	LIGHTS - SEN CORR 4 AREA		1	20	2.8			12
2	LIGHTS - EXEC SEN HOUSE DEPT			20	2.8	0.0		12
3	LIGHTS - HOUSE CORR 4 AREA		1	20		2.8		12
4	LIGHTS - EXEC SEN HOUSE DEPT		1	20		2.8		12
5	LIGHTS - DEPT CORR 4 AREA		1	20			2.8	12
6	LIGHTS -		1	20			2.0	12
7	LIGHTS - EXEC CORR 4 AREA		1	20	2.8			12
8	PFB		1					
9	PFB		1					
10	PFB		1					
11	PFB		1					
12	PFB		1					
PFB - PROVISION FOR FUTURE BREAKER TOTA		TOTAL LOA	OTAL LOAD/ PHASE			5.6	4.8	
THE THOUSENED ON STORE BILLINER		TOTAL LOAD			18.8	KVA		
		DEMAND FACTOR			1.0			
		DEMAND LOAD			18.8	KVA		

E-007

FILE..... DRAWER..... FOLDER.....