ELECTRICAL SYMBOL LIST

LIGHTING SYMBOLS

- LIGHT FIXTURE, RECESSED
- LIGHT FIXTURE, RECESSED – EMERGENCY
- LIGHT FIXTURE, SURFACE MOUNT
- LIGHT FIXTURE, SURFACE MOUNT – EMERGENCY
- LIGHT FIXTURE, STRIP
- LIGHT FIXTURE, STRIP – EMERGENCY
- DOWNLIGHT FIXTURE, RECESSED
- DOWNLIGHT FIXTURE, RECESSED, WALLWASH
- DOWNLIGHT FIXTURE, RECESSED – EMERGENCY
- LIGHT FIXTURE, WALL MOUNT
- LIGHT FIXTURE, CEILING MOUNT
- RECESSED LIGHT FIXTURE, WALL MOUNT
- LIGHT FIXTURE, WALL MOUNT
- LIGHT FIXTURE, WALL SCONCE
- LIGHT FIXTURE, COVE – RECESSED
- LIGHT FIXTURE, COVE – SURFACE
- LIGHT FIXTURE, UNDER CABINET/SHELF
- EXIT SIGN, UNIVERSAL MOUNT, W/ DIRECTIONAL ARROW
- EXIT SIGN, WALL MOUNT, +8'-0" A.F.F.
- EMERGENCY LIGHT W/ BATTERY PACK, +8'-0" A.F.F.
- FLOOD LIGHT
- AREA LUMINAIRE, POST TOP
- AREA LUMINAIRE, BOLLARD
- AREA LUMINAIRE, WALL MOUNT
- AREA LUMINAIRE, POLE MOUNT

SWITCH SYMBOLS

- $ SWITCH, SPST +48" A.F.F.
- $_2$ SWITCH, DPST +48" A.F.F.
- $_3$ SWITCH, 3-WAY +48" A.F.F.
- $_4$ SWITCH, 4-WAY +48" A.F.F.
- $_M$ SWITCH, MOMENTARY +48" A.F.F.
- $_D$ SWITCH, DIMMER +48" A.F.F.
- $_P$ SWITCH, SPST, W/PILOT LIGHT +48" A.F.F.
- $_{3P}$ SWITCH, 3-WAY, W/PILOT LIGHT +48" A.F.F.
- $_K$ SWITCH, KEY-OPERATED +48" A.F.F.
- $_T$ SWITCH, TIMED +48" A.F.F.
- $ EXISTING SWITCH, SPST
- PC PHOTOCELL CONTROL
- OS OCCUPANCY SENSOR CONTROL

WIRING SYMBOLS

- 2#-9 PANEL & CIRCUIT NUMBER
- #10 HOMERUN TO PANEL
- CONDUCTOR SIZE (IF OTHER THAN #12)
- PHASE CONDUCTOR
- NEUTRAL CONDUCTOR
- GROUND CONDUCTOR
- CONCEALED CONDUIT
- 1-1/4"C CONDUIT SIZE
- CONDUIT (UNDER SLAB OR FLOOR)
- FLEXIBLE CONNECTION
- CONDUIT, STUBBED & CAPPED
- NORMAL POWER CIRCUIT LINETYPE
- EMERGENCY POWER CIRCUIT LINETYPE
- EXISTING POWER CIRCUIT LINETYPE

FIRE RATED INSTALLATION NOTE:

ELECTRICAL ITEMS (LIGHT FIXTURES, BOXES, ETC.) WHICH ARE RECESSED INTO FIRE-RATED CEILINGS OR WALLS, SHALL BE 'ALCOVED' IN GYPSUM BOARD ENCLOSURES PER ARCHITECTURAL DETAILS, OR THE DEVICES SHALL BE 'UL' LISTED WITH FIRE-RATING EQUAL TO OR GREATER THAN THE FIRE-RATING OF THE ADJACENT CONSTRUCTION.

POWER SYMBOLS

- RECEPTACLE, SINGLE +18" A.F.F.
- RECEPTACLE, DUPLEX +18" A.F.F.
- RECEPTACLE, QUAD +18" A.F.F.
- RECEPTACLE, DUPLEX +6" ABV COUNTER
- RECEPTACLE, DUPLEX +18" A.F.F. (ONE OUTLET SWITCHED)
- RECEPTACLE, DUPLEX +18" A.F.F. (BOTH OUTLETS SWITCHED)
- RECEPTACLE, DUPLEX, PEDESTAL MOUNT
- RECEPTACLE, DUPLEX, FLUSH FLOOR MOUNT
- RECEPTACLE, SPECIAL (COORDINATE WITH EQUIPMENT SERVED)
- RELAY
- TIME CLOCK CONTROL
- PUSHBUTTON STATION
- JUNCTION BOX
- JUNCTION BOX, EMERGENCY CIRCUIT
- THERMOSTAT
- TRANSFORMER
- DISCONNECT, NON-FUSED
- DISCONNECT, FUSED
- ELECTRICAL CONNECTION
- ELECTRICAL CONNECTION, SINGLE MOTOR
- ELECTRICAL CONNECTION, MULTI-MOTOR
- ELECTRICAL DISTRIBUTION PANEL, RECESSED
- ELECTRICAL DISTRIBUTION PANEL, SURFACE
- MISCELLANEOUS PANEL, RECESSED
- MISCELLANEOUS PANEL, SURFACE
- FLUSH FLOOR BOX (W/ DEVICES AS SHOWN ON PLAN)
- FIRE SMOKE DAMPER

ONE-LINE DIAGRAM SYMBOLS

- PANEL 'A' — ELECTRICAL DISTRIBUTION PANELBOARD (MLO)
- (MCB) PANEL 'A' (SUB) — ELECTRICAL DISTRIBUTION PANELBOARD (MCB); SUB-FEED CIRCUIT BREAKER
- 200/3 — CIRCUIT BREAKER (TRIP RATING & POLES AS INDICATED ON PLAN)
- 200A 3P — MAIN SWITCH (RATING & POLES AS INDICATED ON PLAN)
- 200A 100KAIC — FUSE (RATING & CLASS AS INDICATED ON PLAN)
- NORM / EMERG 200/3 — TRANSFER SWITCH (MANUAL OR AUTOMATIC)
- GEN — GENERATOR (RATING AS INDICATED ON PLAN)
- TRANSFORMER (RATING AS INDICATED ON PLAN)
- 200A 100KAIC — FUSE (RATING & CLASS AS INDICATED ON PLAN)
- GROUND — GROUND SYSTEM (SIZE AS INDICATED ON PLAN)
- WATER PIPE GROUND ELECTRODE
- TRANSIENT VOLTAGE SURGE SUPPRESSOR
- (M) — UTILITY METER & METER BASE
- C.T. — UTILITY METER CURRENT TRANSFORMER
- (1) — FEEDER NO. (SEE FEEDER SCHEDULE)
- 480/120V — POTENTIAL TRANSFORMER (RATING AS INDICATED ON PLANS)

ABBREVIATIONS

'A'	LIGHT FIXTURE TYPE (SEE FIXTURE LIST)
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINAL GRADE
A.F.I.	ARC FAULT INTERRUPTER
A.T.S.	TRANSFER SWITCH, AUTOMATIC
C	CONDUIT
C.O.	CONDUIT ONLY
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
C.T.	CURRENT TRANSFORMER
(E)	EXISTING
E.L.	EMERGENCY LIGHT
E.L.C.	EXTERIOR LIGHTING CONTROL
FACP	FIRE ALARM CONTROL PANEL
G.F.I.	GROUND FAULT INTERRUPTER
GND	GROUND
H.I.D.	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
I.G.	ISOLATED GROUND
I R	INFRARED
JB	JUNCTION BOX
LCP	LIGHTING CONTROL PANEL
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
M.T.S.	TRANSFER SWITCH, MANUAL
(N)	NEW
N.I.C.	NOT IN CONTRACT
N.L.	NIGHT LIGHT
OL	OVERLOAD
O.L.C.	OFFICE LIGHTING CONTROL
P	POLE
P.A.	PUBLIC ADDRESS
PC	PARTIAL CIRCUIT
PH	PHASE
PRI	PRIMARY
R.T.U.	REMOTE TELEMETRY UNIT
SEC	SECONDARY
SCCR	SHORT CIRCUIT CURRENT RATING
T.V.S.S.	TRANSIENT VOLTAGE SURGE SUPPRESSOR
U.G.	UNDERGROUND
U.O.N.	UNLESS OTHERWISE NOTED
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
W.G.	WIRE GUARD
W.P.	WEATHERPROOF
W.T.	WATERTIGHT
X.P.	EXPLOSION PROOF

NOTATIONS

- (1) DRAWING NOTE
- 2/E3 DETAIL REFERENCE: TOP=DETAIL NO., BOTTOM=SHEET NO.
- EF-2 MECHANICAL EQUIPMENT MARK NO. (SEE EQUIPMENT SCHEDULE)
- (A) EQUIPMENT NO. (SEE EQUIPMENT SCHEDULE)
- AA EQUIPMENT NO. (SEE EQUIPMENT SCHEDULE)
- AAA EQUIPMENT NO. (SEE EQUIPMENT SCHEDULE)
- 'A' 2-32 FIXTURE REFERENCE: TOP=TYPE, BOTTOM=LAMP QTY & WATTS

GENERAL CONSTRUCTION NOTES:

CONTRACTOR SHALL BE RESPONSIBLE FOR THOROUGHLY REVIEWING THE PLANS AND SPECIFICATION DOCUMENTS PRIOR TO THE START OF ANY WORK. ANY DISCREPANCIES IN THE PROJECT DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY AND PRIOR TO THE START OF ANY WORK.

ALL DIMENSIONS ARE MEASURED TO THE CENTER OF THE DEVICE ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED AS IS STANDARD BUILDING PRACTICE.

ALL ELECTRICAL PLANS ARE DIAGRAMMATICAL AND THE CONTRACTOR SHALL CONSULT THE ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF DEVICES AND FIXTURES.

THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTATION AND COORDINATE WITH ALL OTHER TRADES THROUGHOUT THE COURSE OF THE PROJECT.

ALL WORK SHALL BE IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL CODES. CONTRACTOR SHALL BE RESPONSIBLE TO BE INFORMED OF ALL SUCH CODES AS THEY APPLY TO THE SCOPE OF THE PROJECT.

1. SYMBOLS & ABBREVIATIONS MAY OR MAY NOT APPLY TO PROJECT
2. REFER TO LOW VOLTAGE DRAWINGS FOR ASSOCIATED SYMBOLS

GENERAL ELECTRICAL NOTES:

A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.

B. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE & NATIONAL CODES.

C. CONTRACTOR SHALL REVIEW THE DIVISION 26 SPECIFICATIONS AND THE ENTIRE DRAWING PACKAGE FOR THIS PROJECT PRIOR TO THE START OF ANY WORK.

D. THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH ALL OTHER TRADES AND PROVIDE THE APPROPRIATE POWER CONNECTION(S) AND COORDINATE EXACT LOCATIONS PRIOR TO ROUGH IN.

E. THE ELECTRICAL CONTRACTOR SHALL IMMEDIATELY ADVISE THE ARCHITECT OF ANY DISCREPANCIES DISCOVERED WITHIN THE DOCUMENTS.

F. ALL PRODUCT SUBMITTALS AND SUBSTITUTIONS SHALL BE PROVIDED TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO PLACING ANY ORDERS.

G. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.

H. ELECTRICAL CONTRACTOR SHALL CONSULT ARCHITECTURAL AND INTERIOR DECORATOR'S PLAN DOCUMENTS SUCH AS INTERIOR ELEVATIONS, REFLECTED CEILING PLANS, ETC., FOR FIXTURE AND DEVICE DIMENSIONS NOT OTHERWISE NOTED ON THE ELECTRICAL PLANS.

I. ELECTRICAL CONTRACTOR SHALL PROVIDE ROUGH IN FOR LOW VOLTAGE AND FIRE ALARM DEVICES, DESIGNED & INSTALLED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONSULTING THE LOW VOLTAGE & FIRE ALARM SYSTEMS DESIGNER/INSTALLER PRIOR TO THE START OF ANY WORK TO ENSURE THAT TOUGH IN BOXES ARE PROPERLY LOCATED.

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HERMOSO MIXED-USE

7420 SE HERMOSO WAY
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VERSION LOG:

DATE: 01.26.2021
DRAWN BY: DMT
CHECKED BY: RLC

REGISTERED PROFESSIONAL ENGINEER
16,597
OREGON
JULY 20, 1995
ROBERT L. CONNELL
EXPIRES 12-31-2021

PROJECT NO: 2068

SHEET TITLE:
ELECTRICAL SYMBOL LIST

SHEET NO:
E1.00

MEA INC. Consulting Engineers
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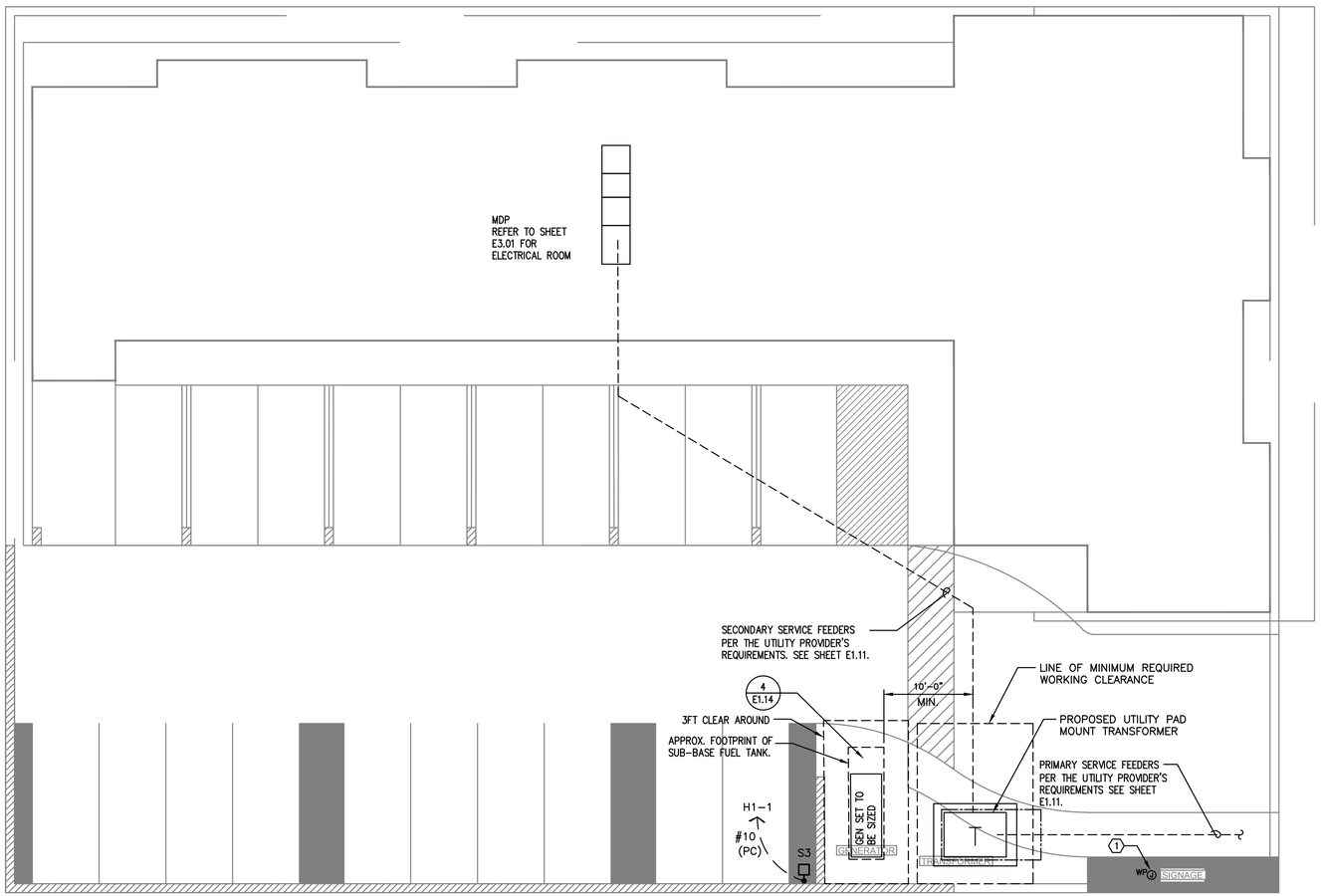

1 E1.01 ELECTRICAL SITE PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

A. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES.

B. ELECTRICAL PLANS ARE DIAGRAMMATIC AND MAY OR MAY NOT REFLECT ACTUAL FIELD CONDITIONS.

C. REFER TO LIGHTING PLANS FOR BUILDING MOUNTED LIGHT FIXTURE LOCATIONS.

D. COORDINATE WITH LOCAL UTILITY PROVIDER FOR EXACT SERVICE CONDUIT AND CONDUCTORS REQUIREMENTS.

E. ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH CLARK PUBLIC UTILITIES ELECTRICAL SERVICE REQUIREMENTS.

F. U.G. PRIMARY FEEDER SHALL HAVE A MINIMUM 48 INCH BURY.

G. U.G. SECONDARY FEEDER SHALL HAVE A MINIMUM 36 INCH BURY.

H. REFER TO SHEET E1.11 FOR ONE-LINE DIAGRAM, LOAD SUMMARY INFORMATION AND TYPICAL FEEDER SCHEDULE.

I. SECONDARY CONDUIT SWEEPS SHALL BE MINIMUM 60 INCH RADIUS WITH A MINIMUM OF 7'-0" STRAIGHT CONDUIT RUN BETWEEN SWEEPS.

J. CONTRACTOR SHALL REVIEW THE UTILITY PROVIDER'S ELECTRICAL SERVICE REQUIREMENTS PRIOR TO THE START OF ANY WORK.

K. LOCATION AND INSTALLATION OF THE PRIMARY AND SECONDARY CONDUITS, TRANSFORMER, ETC. SHALL BE PROVIDED PER UTILITY PROVIDER'S ELECTRICAL SERVICE REQUIREMENTS.

L. CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND SPECIFICATIONS IN DETAIL AND REFER TO THE DOCUMENTS THROUGHOUT THE CONSTRUCTION.

⬡ KEYED NOTES:

1. PROVIDE ONE 20A, 120V, 1P CIRCUIT IN 3/4" PVC CONDUIT FROM PANEL H1, CKT 13 (VIA TIME CLOCK) FOR SIGNAGE. ROUTE UNDERGROUND FROM BUILDING. TERMINATE AT A WEATHER PROOF J-BOX. FINAL ELECTRICAL CONNECTION BY SIGNAGE INSTALLER.

UTILITY REQUIREMENTS

1. CUSTOMER TO PROVIDE ALL TRENCHING AND BACKFILLING. TRENCH TO BE 36 INCHES DEEP AND 30 INCHES WIDE, MEASURED FROM FINAL GRADE.

2. ALL UTILITY CONDUCTORS TO BE INSTALLED IN GRAY SCHEDULE 40, ELECTRICAL GRADE, PVC CONDUIT WITH NYLON PULL STRINGS (MIN 500 LBS. TEST). CLARK PUBLIC UTILITIES TO DETERMINE THE SIZE AND NUMBER OF CONDUITS REQUIRED. ALL ELBOWS TO BE 36 INCH (MIN) RADIUS. ALL BENDS MAY BE FACTORY MADE. IF MORE THAN 270 DEGREES OF BENDS OR IF RUN IS LONGER THAN 150 FEET, BENDS MUST BE RIGID STEEL.

3. CONSULT WITH UTILITY REPRESENTATIVE 2 WEEKS BEFORE STARTING MAIN POWER TRENCHING FOR A PRE-CONSTRUCTION CONFERENCE. INCLUDED IN THIS CONFERENCE WILL BE EXCAVATOR, CPU, TELCO, CATV, AND GAS.

4. CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES BEFORE TRENCHING.

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PROJECT NO: 2068

SHEET TITLE:
ELECTRICAL
SITE PLAN

SHEET NO.
E1.01

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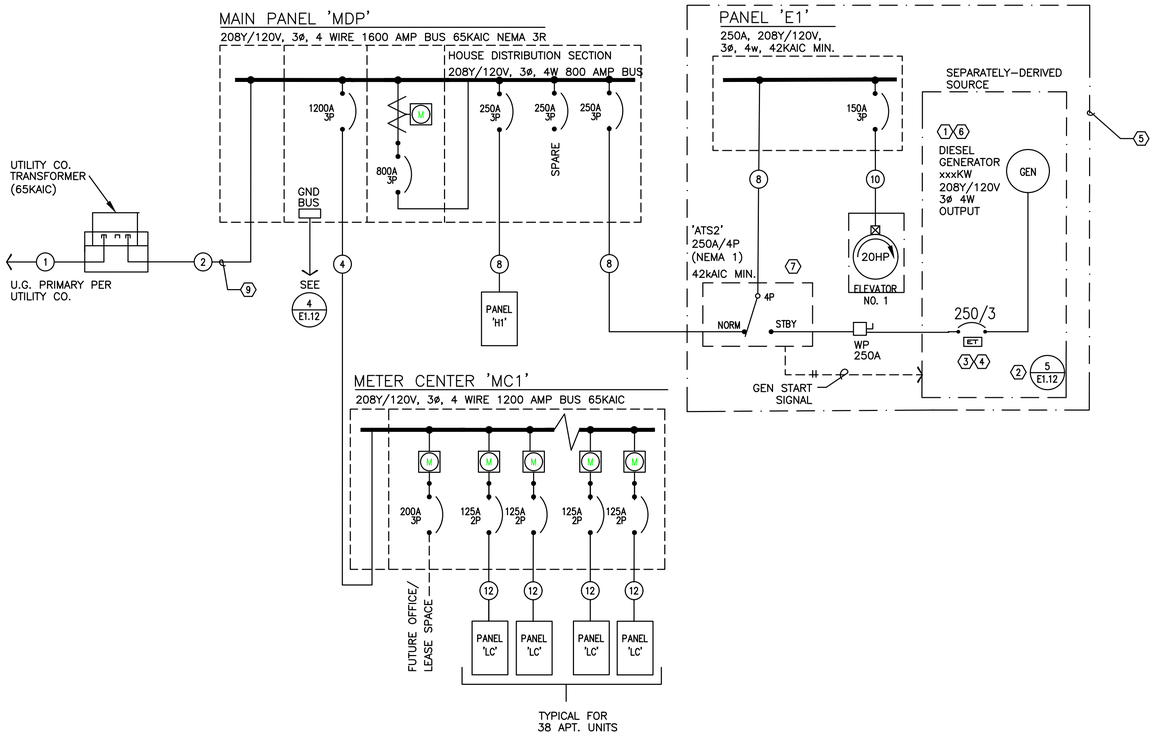

1 / E1.11 ELECTRICAL ONE-LINE DIAGRAM
208/120v, 3ph, 4w

Estimated Loads	Hermoso Main distribution Center "MDP"						
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
Panels 'H1' & 'E1'	3,265	7,020	29,000		6,000	18,155	
Elevator 1 (20hp)						22,356	22,356
Fire Pump (if required)						22,356	
Residential Meters (MC1)						306,000	
Retail Space 1960sf @ 20w/sf						40,000	
SUBTOTAL	3,265	7,020	29,000	0	6,000	408,867	22,356
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	4,081	7,020	29,000	0	6,000	408,867	5,589

CONN LOAD:	477	KVA

VOLTS:	208	3ph
TOTAL CALC:	461	KVA
CALC AMPS:	1278	AMPS

MFIA PANEL SCHEDULE

panel: E1	mounting: SURFACE			location:			connected load amps: 97	
voltage: 120/208V (SCCR: 42KAIC)	phase: 3			bus & main: 225A		MLO	calculated load amps: 113	
C	service	va	a/p	no.	a b c	no.	a/p	va	service	C
1	LIGHTS - EXTERIOR EGRESS	150	20/1	1	*	2	150/3	7452	ELEVATOR	6
1	LIGHTS - STAIRWELL #1	180	20/1	3	*	4	*	7452	*	6
1	LIGHTS - STAIRWELL #2	180	20/1	5	*	6	*	7452	*	6
1	LIGHTS - FLRS 1 & 2	180	20/1	7	*	8	20/1	1500	ELEVATOR CONTROL MODULE	3
1	LIGHTS - FLRS 3, 4, 5	270	20/1	9	*	10	20/1	1500	ELEVATOR CAB LIGHTS	5
	SPARE		20/1	11	*	12	20/1	1500	ELEVATOR PIT/SHAFT LTS & REC.	5
5	FACP	500	20/1	13	*	14	20/1	1500	ELEVATOR RECALL VENT (OPT)	5
5	FARA	500	20/1	15	*	16	20/1	1500	GEN. SET BATTERY CHARGER	5
5	GENERATOR REMOTE ANNUNC.	500	20/1	17	*	18	20/1	1500	GEN. SET BLOCK HEATER	5
	SPARE		20/1	19	*	20	20/1	1176	SP-1 (ELEVATOR PIT)	6
	SPARE		20/1	21	*	22	20/1		SPARE	
	SPARE		20/1	23	*	24	20/1		SPARE	
	BLANK			25	*	26			BLANK	
	BLANK			27	*	28			BLANK	
	BLANK			29	*	30			BLANK	
	BLANK			31	*	32			BLANK	
	BLANK			33	*	34			BLANK	
	BLANK			35	*	36			BLANK	
	BLANK			37	*	38			BLANK	
	BLANK			39	*	40			BLANK	
	BLANK			41	*	42			BLANK	
	Phase A	12458 VA		NOTES:					line-line voltage: 208	
	Phase B	11402 VA								
	Phase C	11132 VA							largest motor (va): 22356	
	Total Connected	34992 VA								
	load code:	ph. A	ph. B		ph. C		total	factor	calculated load (va)	
	1. LIGHTS=	330	450		180	VA	960	1.25	1200	
	2. RECEPT.=	0	0		0	VA	0	1 + 0.5	0	
	3. HEATING=	1500	0		0	VA	1500	1.00	1500	
	4. KITCHEN=	0	0		0	VA	0	1.00	0	
	5. EQUIP.=	2000	3500		3500	VA	9000	1.00	9000	
	6. MOTORS=	8628	7452		7452	VA	23532	*	29121	
	7. MISC=	0	0		0	VA	0	1.00	0	
	(* 125% of the largest motor + 100% of the balance)							TOTAL =	40821	

MFIA PANEL SCHEDULE

panel: H1	mounting:			location:			connected load amps: 105	
voltage: 120/208V (SCCR: 42KAIC)	phase: 3			bus & main: 250A		MLO	calculated load amps: 106	
C	service	va	a/p	no.	a b c	no.	a/p	va	service	C
1	LIGHTS - BLDG EXTERIOR	400	20/1	1	*	2	20/1	1260	RECEPT - FIRST FLOOR	2
1	LIGHTS - FIRST FLOOR	500	20/1	3	*	4	20/1	1080	RECEPT - FIRST FLOOR	2
1	LIGHTS - FLRS 2 & 3	150	20/1	5	*	6	20/1		RECEPT - COMM. ROOM	2
1	LIGHTS - FLRS 4 & 5	150	20/1	7	*	8	20/1		RECEPT - COMM. ROOM	2
1	LIGHTS - CORRIDOR CLOSETS	200	20/1	9	*	10	20/1		RECEPT - COMM. ROOM	2
1	LIGHTING - TEMPORARY	250	20/1	11	*	12	20/1	1080	RECEPT - TEMPORARY	2
5	SIGNAGE	1500	20/1	13	*	14	20/1	900	RECEPT - FLR 2	2
3	EH-1 (STAIR 112)	1500	20/1	15	*	16	20/1	900	RECEPT - FLR 3	2
3	EH-1 (TRASH RM)	1500	20/1	17	*	18	20/1	900	RECEPT - FLR 4	2
5	TELECOM BOARD	1500	20/1	19	*	20	20/1	900	RECEPT - FLR 5	2
3	EH-1 (CORRID. 109)	1500	20/1	21	*	22	20/1	1500	EH-1 - FLR 2	3
5	AUTO DOORS	1500	20/1	23	*	24	20/1	1500	EH-1 - FLR 3	3
5	ENTRY ACCESS SYSTEM	1500	20/1	25	*	26	20/1	1500	EH-1 - FLR 4	3
3	EH-1 (STAIR 103)	1500	20/1	27	*	28	20/1	1500	EH-1 - FLR 5	3
3	EH-1 (LOBBY)	1500	20/1	29	*	30	30/2	2288	IHP/OHP-1	6
3	EH-2 (RISER RM)	500	20/1	31	*	32	*	2288	*	6
	SPARE	0	20/1	33	*	34	30/2	2288	IHP/OHP-2	6
	SPARE	0	20/1	35	*	36	*	2288	*	6
	BLANK			37	*	38			BLANK	
	BLANK			39	*	40			BLANK	
	BLANK			41	*	42			BLANK	
	Phase A	12398 VA		NOTES:					line-line voltage: 208	
	Phase B	12468 VA								
	Phase C	12956 VA							largest motor (va): 0	
	Total Connected	37822 VA								
	load code:	ph. A	ph. B		ph. C		total	factor	calculated load (va)	
	1. LIGHTS=	550	700		400	VA	1650	1.25	2063	
	2. RECEPT.=	3060	1980		1980	VA	7020	1 + 0.5	7020	
	3. HEATING=	2000	7500		4500	VA	14000	1.00	14000	
	4. KITCHEN=	0	0		0	VA	0	1.00	0	
	5. EQUIP.=	4500	0		1500	VA	6000	1.00	6000	
	6. MOTORS=	2288	2288		4576	VA	9152	*	9152	
	7. MISC=	0	0		0	VA	0	1.00	0	
	(* 125% of the largest motor + 100% of the balance)							TOTAL =	38235	

FEEDER SCHEDULE (COPPER)

NO.	AMPS	CONDUIT	CONDUCTOR
1		*(8) 4"	PER UTILITY CO. REQ. & (1) GND
2		*(8) 4"	PER UTILITY CO. REQ. & (1) GND
3	1600A	*(4) 4"	ea w/ (4) #600Kcmil & (1) #4/0 GND
4	1200A	*(3) 4"	ea w/ (4) #600Kcmil & (1) #3/0 GND
5	800A	*(2) 4"	ea w/ (4) #600Kcmil & (1) #1/0 GND
6	600A	*(2) 3"	ea w/ (4) #350Kcmil & (1) #1 GND
7	400A	3 1/2"	(4) #500Kcmil & (1) #3 GND
8	250A	2 1/2"	(4) #250Kcmil & (1) #4 GND
9	200A	2"	(4) #3/0 & (1) #6 GND
10	150A	2"	(4) #1/0 & (1) #6 GND
11	100A	1 1/2"	(4) #1 & (1) #8 GND
12	125A	1 1/2"	(3) #1 & (1) #6 GND
13	100A	1 1/2"	(3) #1 & (1) #8 GND

FEEDER SCHEDULE (ALUMINUM)

NO.	AMPS	CONDUIT	CONDUCTOR
1		*4"	PER UTILITY CO. REQ. & (1) GND
2		*4"	PER UTILITY CO. REQ. & (1) GND
3	1600A	*(4) 3 1/2"	ea w/ (4) #600 MCM & (1) #4/0 GND
4	1200A	*(3) 3 1/2"	ea w/ (4) #600 MCM & (1) #1/0 GND
5	800A	*(2) 3 1/2"	ea w/ (4) #600 MCM & (1) #1/0 GND
6	600A	*(2) 3"	ea w/ (4) #350 MCM & (1) #1 GND
7	400A	3 1/2"	(4) #500 MCM & (1) #2 GND
8	250A	2 1/2"	(4) #250 MCM & (1) #4 GND
9	200A	2"	(4) #3/0 & (1) #6 GND
10	150A	2"	(4) #1/0 & (1) #6 GND
11	100A	1 1/4"	(4) #2 & (1) #8 GND
12	125A	1 1/2"	(3) #1 & (1) #6 GND
13	100A	1 1/4"	(3) #2 & (1) #8 GND

* PARALLEL FEEDERS.

NOTES:
1. REFER TO THE UTILITY PROVIDER'S DESIGN AND INCOMING SERVICE DIVISION OF RESPONSIBILITIES FOR ADDITIONAL INFORMATION.

2. ALUMINUM CONDUCTORS MAY BE USED IN LIEU OF COPPER FOR SECONDARY FEEDERS.

3. ALUMINUM CONDUCTORS MAY BE USED FOR FEEDERS OVER 100A.

4. USE OF ALUMINUM FEEDERS SHALL BE AS ALLOWED BY THE NEC.

ONE-LINE GENERAL NOTES:

A. COORDINATE ALL WORK ASSOCIATED WITH ELECTRIC SERVICE WITH LOCAL UTILITY. PROVIDE ALL CONDUIT, GROUNDING, TRANSFORMER VAULT/PAD, ETC., IN ACCORDANCE WITH SERVING UTILITY REQUIREMENTS.

B. COORDINATE METERING REQUIREMENTS WITH UTILITY.

C. FOR LOAD CENTER FEEDER LENGTHS GREATER THAN 145'-0" FROM METER CENTER, INCREASE WIRE SIZE ONE SIZE UP FOR VOLTAGE DROP.

D. PER NEC 240.87, THE ELECTRICAL CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR ARC ENERGY REDUCTION DEVICE(S) FOR CIRCUIT BREAKERS 1200A OR GREATER. CONTRACTOR SHALL PROVIDE AN ENERGY-REDUCING ACTIVE FLASH MITIGATION SYSTEM OR OTHER METHOD APPROVED BY THE NEC.

E. USE OF ALUMINUM CONDUCTORS, AS ALLOWED BY CODE, MAY BE SUBSTITUTED FOR COPPER. CONTRACTOR SHALL PROVIDE WRITTEN SUBSTITUTION REQUEST DEMONSTRATING THE THAT THE PROPOSED PRODUCT IS EQUIVALENT TO COPPER IN ALL ASPECTS.

⬡ ONE-LINE NOTES:

1. ESTIMATED GENERATOR STARTING LOAD IS BASED ON THE ELEVATOR MOTORS BEING PROVIDED WITH REDUCED STARTING.

2. PROVIDE GROUND FOR SEPARATELY DERIVED SYSTEM PER NEC.

3. PROVIDE ELECTRONIC TRIP CIRCUIT BREAKER. EXACT BREAKER TYPE, SETTINGS, ETC. TO BE VERIFIED AND AS DETERMINED BY SELECTIVE COORDINATION STUDY AS PERFORMED BY THE ELECTRICAL DISTRIBUTION EQUIPMENT MANUFACTURER.

4. COORDINATE INSTALLATION OF OUTPUT BREAKERS WITH GENERATOR MANUFACTURER TO SELECTIVELY COORDINATE WITH POWER STUDY RECOMMENDATIONS.

5. 'LIFE SAFETY' BRANCH TO MEET ALL REQUIREMENTS OF NEC 700. CONTRACTOR SHALL BE AWARE THAT MFIA HAS ATTEMPTED TO INDICATE EQUIPMENT AND SIZES THAT WILL SELECTIVELY COORDINATE, BUT WILL NOT BE KNOWN UNTIL ELECTRICAL EQUIPMENT MANUFACTURER PERFORMS THE REQUIRED POWER STUDIES AS SPECIFIED IN 26 05 73. CHANGES MAY BE NECESSARY AFTER THE BID.

6. GENERATOR IS SIZED TO OPERATE ONLY ONE ELEVATOR AT A TIME. COORDINATE WITH ELEVATOR & GENERATOR PROVIDERS FOR AUTOMATIC SEQUENTIAL OPERATION AS REQUIRED UNDER ASME A17.1, SECTION 2.27.2.1 THROUGH 2.27.2.5.

7. THE AUTOMATIC TRANSFER SWITCH FOR THE EMERGENCY PANEL "EDP" SHALL OPERATE SUCH THAT THE EGRESS LOADS ARE SWITCHED TO GENERATOR POWER WITHIN 10 SECONDS AND THE ELEVATOR(S) SWITCHED WITHIN 60 SECONDS OF A POWER FAILURE.

8. CONSULT MECHANICAL, PLUMBING AND/OR FIRE ALARM PLANS AND VERIFY EXACT POWER REQUIREMENTS FOR THE FIRE PUMP.

9. SECONDARY SERVICE FEEDERS TO SERVICE DISCONNECT AT BUILDING EXTERIOR PER UTILITY PROVIDERS REQUIREMENTS.

10. OWNER'S SECONDARY FEEDERS FROM SERVICE DISCONNECT AT BUILDING EXTERIOR TO MAIN DISTRIBUTION PANEL, LOCATED GREATER THAN 15FT FROM THE BUILDING EXTERIOR. CONDUIT AND CONDUCTORS TO BE ROUTED UNDERGROUND AND ENCASED IN CONCRETE AS REQUIRED BY CODE.

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VERSION LOG:

DATE: 01.26.2021
DRAWN BY: DMT
CHECKED BY: RLC

REGISTERED PROFESSIONAL ENGINEER 16,597 OREGON JULY 20, 1995 ROBERT L. CONNELL
EXPIRES 12-31-2021

PROJECT NO: 2068
SHEET TITLE: ELECTRICAL ONE-LINE DIAGRAM
SHEET NO. E1.11

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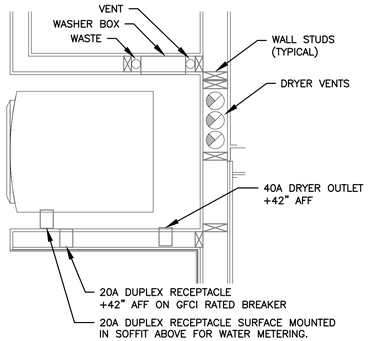
MECHANICAL EQUIPMENT SCHEDULE

NO.	EQUIPMENT NAME	HP/KW	VOLTS	PH	AMPS	CONDUIT	WIRE	GND	CIRCUIT
EF-1	EXHAUST FAN NO.1	8.2HP	120	1		1/2"	#12	#12	SEE UNIT PLANS
EF-2	EXHAUST FAN NO.2	135W	120	1		1/2"	#12	#12	SEE E3.01
EH-1	ELECTRIC WALL HEATER NO.1	1.5 KW	120	1		1/2"	#12	#12	SEE E3 SERIES SHEETS
EH-2	ELECTRIC WALL HEATER NO.2	500W	120	1		1/2"	#12	#12	H1-27
EH-3	ELECTRIC WALL HEATER NO.3	1.5 KW	208	1		1/2"	#12	#12	SEE UNIT PLANS
IHP-1	MINI SPLIT SYST NO.1 (INDOOR)	(A & B)							
OHP-1	MINI SPLIT SYST NO.1 (OUTDOOR)		208	1	42.0 MCA	3/4"	#6	#10	SEE UNIT PLANS
IHP-2	MINI SPLIT SYST NO.2 (INDOOR)	(A & B)							
OHP-2	MINI SPLIT SYST NO.2 (OUTDOOR)		208	1	22.1 MCA	3/4"	#10	#10	SEE UNIT PLANS
PTHP-1	THRU-WALL HEAT/AC NO.1		208	1	22.0 MCA	1/2"	#10	#10	REFER TO UNIT PLANS
PTHP-2	THRU-WALL HEAT/AC NO.2		208	1	22.0 MCA	1/2"	#10	#10	REFER TO UNIT PLANS
SF-1	SUPPLY FAN NO.1	13.0W	120	1		1/2"	#12	#12	SEE E3 SERIES SHEETS
SP-1	SUMP PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	E1-16
WH-1	WATER HEATER NO.1	4.5KW	208	1		1/2"	#12	#12	SEE UNIT PLANS
WH-2	WATER HEATER NO.2		208	1		1/2"	#12	#12	

GENERAL EQUIPMENT NOTES:

A. CONTRACTOR/DESIGNER SHALL VERIFY ALL MECHANICAL EQUIPMENT CONNECTION LOAD REQUIREMENTS WITH THE MECHANICAL EQUIPMENT PROVIDER PRIOR TO ROUGH IN.

B. MECHANICAL EQUIPMENT SIZES SHOWN IN THE MECHANICAL SCHEDULE ABOVE ARE FOR REFERENCE ONLY AND MAY NOT REFLECT THE ACTUAL EQUIPMENT TO BE INSTALLED.



NOTES:

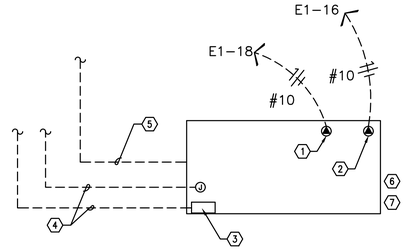
1. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH IN, TO ENSURE THAT ELECTRICAL DEVICES ARE NOT INSTALLED WHERE THEY WILL CREATE CONFLICT.

2. PREFERRED INSTALLATION SHALL HAVE THE ELECTRICAL DEVICES ON A WALL OPPOSITE THE WORK OF ANY OTHER TRADE.

3. COORDINATE WITH WATER METER INSTALLER FOR EXACT LOCATION OF DUPLEX RECEPTACLE, WHERE REQUIRED.

4. FIELD COORDINATE WITH ALL TRADES PRIOR TO ROUGH IN.

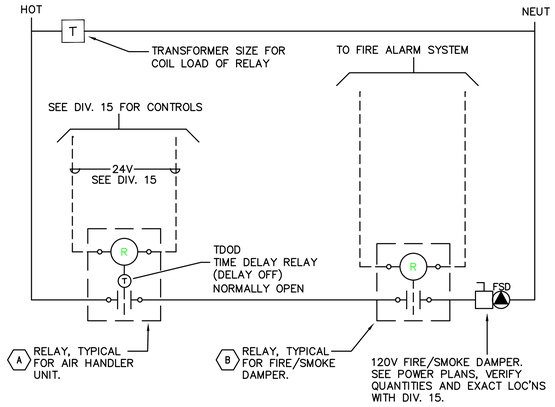
2 / E1.12 TYPICAL WASHER/DRYER ALCOVE
NO SCALE



1 / E1.12 GENERATOR CIRCUITING DETAIL
NO SCALE

NOTES:

1. 120V GENERATOR BLOCK HEATER. SEE PANEL E1.
2. 120V GENERATOR BATTERY CHARGER. SEE PANEL E1.
3. GENERATOR OUTPUT BREAKER AND CONTROL SECTION. SEE PANEL E1.
4. POWER AND CONTROL TO TRANSFER SWITCH AND REMOTE ANNUNCIATOR. SEE ONE-LINE DIAGRAM ON SHEET E1.11.
5. TO AUTOMATIC TRANSFER SWITCH. SEE E1.11.
6. DIESEL GENERATOR TO BE PROVIDED WITH DOUBLE-WALL FUEL TANK AND SPILL CONTAINMENT PER CITY OF PORTLAND REQUIREMENTS.
7. DIESEL GENERATOR TANK SHALL DOUBLE WALLED AND BE EQUIPPED WITH OVERFILL PROTECTION (AUTO SHUTOFF), 5 GALLON INFILL SPILL BUCKET WITH DRAIN BACK, 12FT ABOVE GRADE TANK FUME VENTING AND ONSITE PRESSURE TESTING PER CITY REQUIREMENTS.

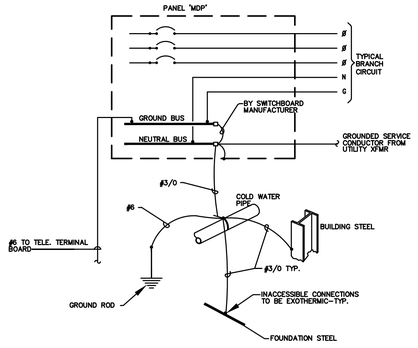


3 / E1.12 SMOKE/FIRE DAMPER CONTROL DIAGRAM
NO SCALE

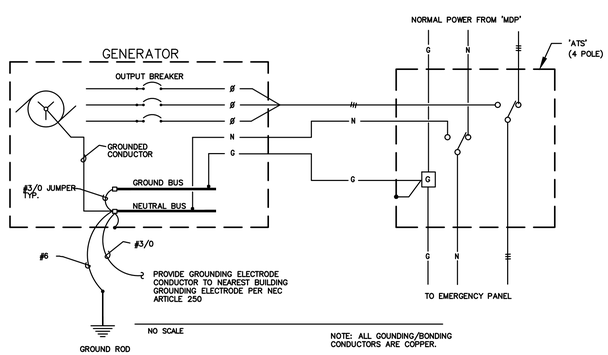
ADDRESSABLE DETECTOR CONTROL

(A) RELAY TO BE 'NORMALLY OPEN'. TDOD (TIME DELAY ON DE-ENERGY) SET FOR 15 SECONDS. RELAY TO CLOSE UPON SIGNAL FROM HVAC CONTROL SYSTEM (ALLOWS DAMPER TO OPEN); DAMPERS TO CLOSE ON DE-ENERGIZE AFTER 15 SEC. TIME-OUT. PROVIDE WITH 20A CONTACTS AND COIL VOLTAGE AS REQ'D BY HVAC CONTROL SYSTEM. MOUNT RELAY IN NEMA 1 ENCLOSURE ADJACENT TO HVAC CONTROL PANEL.

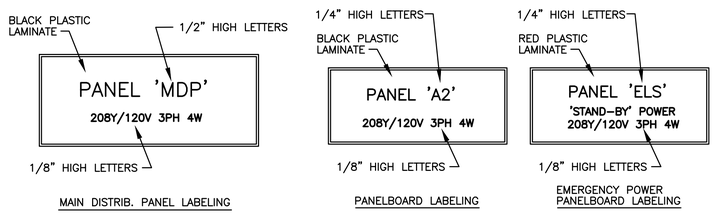
(B) RELAY TO BE 'NORMALLY ENERGIZED'. RELAY TO BE DE-ENERGIZED UPON SIGNAL FROM FIRE ALARM SYSTEM (ALLOWS DAMPERS TO CLOSE). PROGRAM FIRE ALARM SYSTEM FOR 15 SECOND DELAY BETWEEN SMOKE DETECTOR ACTIVATION AND FIRE/SMOKE DAMPER SHUTDOWN. PROVIDE WITH 20A CONTACTS AND COIL VOLTAGE AS REQ'D BY FIRE ALARM SYSTEM. MOUNT RELAY IN NEMA 1 ENCLOSURE ADJACENT TO FIRE/SMOKE DAMPER.



1 / E1.12 GROUNDING/BONDING DIAGRAM
208Y/120V, 3Ø, 4 WIRE



5 / E1.12 GENERATOR - ELECTRICAL GROUNDING/BONDING DETAIL



6 / E1.12 SWITCHBOARD/PANEL LABELING DETAIL
NO SCALE

NOTE: ALL LETTERS ARE ENGRAVED WHITE

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REGISTERED PROFESSIONAL ENGINEER 16,597 OREGON JULY 20, 1993 ROBERT L. CONBELL
EXPIRES 12-31-2021

PROJECT NO: 2068
SHEET TITLE: LOAD SUMMARY & PANEL SCHEDULES
SHEET NO: E1.12

Hermoso Apartments
RESIDENTIAL LOAD SUMMARY 'MC1'

UNIT TYPE:	QTY PER FLOOR Lvl 1	Lvl 2	Lvl 3	Lvl 4	Lvl 5	TOTAL	AREA (SF)	LTG/RECEPT (3VA / SF)	SM APPL (1500VA X 2)	LAUNDRY (1500VA)	COOKING (CONNECTED)	MICROWAVE (CONNECTED)	DISHWASHER (CONNECTED)	ELECT DRYER (CONNECTED)	WATER HEATER (CONNECTED)	DISPOSAL (CONNECTED)	MOTORS (CONNECTED)	LARGEST OF: AC/HEATING (CONNECTED)
Studio	2	10	-	-	-	12	465	1395	3000	1500	8000	1500	1200	3500	0	900	0	2500
1bed/1bath	-	2	4	4	4	14	560	1680	3000	1500	8000	1500	1200	3500	0	900	0	5000
2bed/2bath	-	-	4	4	4	12	865	2595	3000	1500	8000	1500	1200	3500	0	900	0	8750
TOTALS:	2	12	8	8	8	38	23800	71400	114000	57000	304000	57000	45600	133000	0	34200	0	205000

VOLTS: 208 3ph
TOTAL CONNECTED: 1021 KVA
DEMAND FACTOR: 0.28 Based on Total Number of Residential Units = 39-42 (See N.E.C. Article: 220.84)
TOTAL CALCULATED: 286 KVA
CALCULATED AMPS: 794 AMPS

NOTE:

DWELLING UNIT LOAD CALCULATION

Project: Hermoso
Unit Type: Studio
Area: 465 square feet(average)

Minimum Size Feeder (NEC 220.40):		
General lighting load at 3 VA / SF	1,395	VA
Small Appliance load (2 ckts at 1500VA each)	3,000	VA
Laundry Load (1 ckt at 1500VA)	1,500	VA
Range	13,200	VA
Other Cooking Appliance Load (Microwave Oven)	1,500	VA
Dishwasher Load	1,200	VA
Electric Dryer Load	3,500	VA
Electric Water Heater Load	0	VA
Disposal load	900	VA
Other motor loads	0	VA
Total "General Loads"	26,195	VA
First 10 kVA of "general loads" at 100%	10,000	VA
Remainder of "general loads" at 40%	6,478	VA
Net "general load"	16,478	VA
Largest of: 2,000 VA of electric space heating (less than 4) at 65%	1,300	VA
-or- VA of electric space heating (4 or more) at 40%	0	VA
-or- VA of air conditioning/cooling/heat pumps at 100%	0	VA
TOTAL LOAD	17,778	VA

For 120/208-volt, 4-wire, three-phase service or feeder,
17,778 VA / 208 volts = 85 Amps

Therefore, this dwelling unit shall be permitted to be served by a 125 amp service.

MFIA CIRCUIT DIRECTORY 07-Mar-21

Loadcenter Name: LC-STUDIO (TYPICAL) | mounting: RECESSED | location:
voltage: 208/120 | phase: 1 | bus & main: 125A MLO (SCCR: 22K)

service	o/p	no.	L1	L2	no.	o/p	service
LIGHTS-KITCHEN/LIVING	15/1(A)	1	*		2	20/1(A)	APPLIANCE CIRCUIT
LTS & RECEPT - BATH	15/1	3		*	4	20/1(A)	APPLIANCE CIRCUIT
RECEPT - LIVING	15/1(A)	5	*		6	20/1	REFRIGERATOR
RECEPT - LIVING	15/1(A)	7		*	8	20/1	MICRO/HOOD
SPARE	15/1(A)	9	*		10	50/2	RANGE
SPARE	15/1(A)	11		*	12	*	*
WASHER	20/1(G)	13	*		14	20/1	DISHWASHER
DRYER	40/2	15		*	16	20/1	DISPOSAL
*	*	17	*		18	30/2	HEAT
WATER HEATER	30/2	19		*	20	*	*
*	*	21	*		22	20/1	SPARE
SMART PANEL	20/1	23		*	24	20/1	SPARE
BLANK	-----	25	*		26	20/1	SPARE
BLANK	-----	27		*	28	-----	BLANK
BLANK	-----	29	*		30	-----	BLANK

NOTES:
1. (A) DENOTES: ARC-FAULT INTERRUPTER CIRCUIT BREAKER. INSTALL PER NEC 210.12
2. LOADS FOR THIS PANEL ARE INDICATED ON THE "DWELLING UNIT LOAD CALCULATION".
3. BREAKER & WIRE SHALL BE SIZED FOR EQUIPMENT INSTALLED.
4. (G) DENOTES GFCI RATED BREAKER.
5. 15A CIRCUIT BREAKERS (14AGW) SHALL BE ALLOWED AS REQUIRED BY CODE.

DWELLING UNIT LOAD CALCULATION

Project: Hermoso
Unit Type: 1Bedroom
Area: 560 square feet(average)

Minimum Size Feeder (NEC 220.40):		
General lighting load at 3 VA / SF	1,680	VA
Small Appliance load (2 ckts at 1500VA each)	3,000	VA
Laundry Load (1 ckt at 1500VA)	1,500	VA
Range	13,200	VA
Other Cooking Appliance Load (Microwave Oven)	1,500	VA
Dishwasher Load	1,200	VA
Electric Dryer Load	3,500	VA
Electric Water Heater Load	0	VA
Disposal load	900	VA
Other motor loads	0	VA
Total "General Loads"	26,480	VA
First 10 kVA of "general loads" at 100%	10,000	VA
Remainder of "general loads" at 40%	6,592	VA
Net "general load"	16,592	VA
Largest of: 3,500 VA of electric space heating (less than 4) at 65%	2,275	VA
-or- VA of electric space heating (4 or more) at 40%	0	VA
-or- VA of air conditioning/cooling/heat pumps at 100%	0	VA
TOTAL LOAD	18,867	VA

For 120/208-volt, 4-wire, three-phase service or feeder,
18,867 VA / 208 volts = 91 Amps

Therefore, this dwelling unit shall be permitted to be served by a 125 amp service.

MFIA CIRCUIT DIRECTORY 07-Mar-21

Loadcenter Name: LC-1BR (TYPICAL) | mounting: RECESSED | location:
voltage: 208/120 | phase: 1 | bus & main: 125A MLO (SCCR: 22K)

service	o/p	no.	L1	L2	no.	o/p	service
LIGHTS-KITCHEN/LIVING	15/1(A)	1	*		2	20/1(A)	APPLIANCE CIRCUIT
LTS & RECEPT - BATH	15/1	3		*	4	20/1(A)	APPLIANCE CIRCUIT
LTS & RECEPT - BEDROOM	15/1(A)	5	*		6	20/1	REFRIGERATOR
RECEPT - LIVING	15/1(A)	7		*	8	20/1	MICRO/HOOD
SPARE	15/1(A)	9	*		10	50/2	RANGE
SPARE	15/1(A)	11		*	12	*	*
WASHER	20/1(G)	13	*		14	20/1	DISHWASHER
DRYER	40/2	15		*	16	20/1	DISPOSAL
*	*	17	*		18	30/2	HEAT
WATER HEATER	30/2	19		*	20	*	*
*	*	21	*		22	20/1	HEAT (where used)
SMART PANEL	20/1	23		*	24	20/1	SPARE
BLANK	-----	25	*		26	-----	BLANK
BLANK	-----	27		*	28	-----	BLANK
BLANK	-----	29	*		30	-----	BLANK

NOTES:
1. (A) DENOTES: ARC-FAULT INTERRUPTER CIRCUIT BREAKER. INSTALL PER NEC 210.12
2. LOADS FOR THIS PANEL ARE INDICATED ON THE "DWELLING UNIT LOAD CALCULATION".
3. BREAKER & WIRE SHALL BE SIZED FOR EQUIPMENT INSTALLED.
4. (G) DENOTES GFCI RATED BREAKER.
5. 15A CIRCUIT BREAKERS (14AGW) SHALL BE ALLOWED AS REQUIRED BY CODE.

DWELLING UNIT LOAD CALCULATION

Project: Hermoso
Unit Type: 2Bedroom
Area: 865 square feet(average)

Minimum Size Feeder (NEC 220.40):		
General lighting load at 3 VA / SF	2,595	VA
Small Appliance load (2 ckts at 1500VA each)	3,000	VA
Laundry Load (1 ckt at 1500VA)	1,500	VA
Range	13,200	VA
Other Cooking Appliance Load (Microwave Oven)	1,500	VA
Dishwasher Load	1,200	VA
Electric Dryer Load	3,500	VA
Electric Water Heater Load	0	VA
Disposal load	900	VA
Other motor loads	0	VA
Total "General Loads"	27,395	VA
First 10 kVA of "general loads" at 100%	10,000	VA
Remainder of "general loads" at 40%	6,958	VA
Net "general load"	16,958	VA
Largest of: 5,000 VA of electric space heating (less than 4) at 65%	3,250	VA
-or- VA of electric space heating (4 or more) at 40%	0	VA
-or- VA of air conditioning/cooling/heat pumps at 100%	0	VA
TOTAL LOAD	20,208	VA

For 120/208-volt, 4-wire, three-phase service or feeder,
20,208 VA / 208 volts = 97 Amps

Therefore, this dwelling unit shall be permitted to be served by a 125 amp service.

MFIA CIRCUIT DIRECTORY 07-Mar-21

Loadcenter Name: LC-2BR (TYPICAL) | mounting: RECESSED | location:
voltage: 208/120 | phase: 1 | bus & main: 125A MLO (SCCR: 22K)

service	o/p	no.	L1	L2	no.	o/p	service
LIGHTS-KITCHEN/LIVING	15/1(A)	1	*		2	20/1(A)	APPLIANCE CIRCUIT
LTS & RECEPT - BATH	15/1	3		*	4	20/1(A)	APPLIANCE CIRCUIT
RECEPT - LIVING	15/1(A)	5	*		6	20/1	REFRIGERATOR
RECEPT - LIVING	15/1(A)	7		*	8	20/1	MICRO/HOOD
LTS & RECEPT - BEDROOM	15/1(A)	9	*		10	50/2	RANGE
LTS & RECEPT - BEDROOM	15/1(A)	11		*	12	*	*
WASHER	20/1(G)	13	*		14	20/1	DISHWASHER
DRYER	40/2	15		*	16	20/1	DISPOSAL
*	*	17	*		18	30/2	HEAT
WATER HEATER	30/2	19		*	20	*	*
*	*	21	*		22	20/1	HEAT (where used)
SMART PANEL	20/1	23		*	24	20/1	HEAT (where used)
BLANK	-----	25	*		26	-----	BLANK
BLANK	-----	27		*	28	-----	BLANK
BLANK	-----	29	*		30	-----	BLANK

NOTES:
1. (A) DENOTES: ARC-FAULT INTERRUPTER CIRCUIT BREAKER. INSTALL PER NEC 210.12.
2. LOADS FOR THIS PANEL ARE INDICATED ON THE "DWELLING UNIT LOAD CALCULATION".
3. BREAKER & WIRE SHALL BE SIZED FOR EQUIPMENT INSTALLED.
4. (G) DENOTES GFCI RATED BREAKER.
5. 15A CIRCUIT BREAKERS (14AGW) SHALL BE ALLOWED AS REQUIRED BY CODE.

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REGISTERED PROFESSIONAL ENGINEER 16,597 OREGON JULY 20, 1995 ROBERT L. CONNELL
EXPIRES 12-31-2021

PROJECT NO: 2068

SHEET TITLE:
LOAD SUMMARY & PANEL SCHEDULES

SHEET NO:
E1.13

LIGHTING FIXTURE LIST

TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
A1 A1E	LED 3000K 2000LM/80CRI 25W	LITHONIA (OR APROVED OTHER)	ZL1N SERIES	TYPE :4' GEN. PURPOSE STRIP MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :DIFFUSED ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	TYPE 'AE' SIMILAR TO TYPE 'A' EXCEPT WITH EMERGENCY BATTERY BACK-UP EQUIP. RMS, TRASH RM, LEASE SPACE
A2	LED 3000K 3000LM 23W	LITHONIA LIGHTING (OR APROVED OTHER)	FEML48 SERIES	TYPE :4FT ENCLOSED STRIP MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :POLYCARBONATE VOLTAGE :MVOLT BALLAST :LED DRIVER	 UL LISTED WET LOCATION PARKING CANOPY/ELEVATOR PIT
B1 (2) 18.7W	LED 3000K 2152LM/80CRI	LITHONIA (OR APROVED OTHER)	WL4 20LP835 SERIES	TYPE :4' WRAP AROUND MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	PROVIDE WITH INTEGRAL OCCUPANCY SENSOR, DIM50 STANDBY MODE STAIRWELLS
C1	LED 3000K 1075LM 9W	USAI LIGHTING (OR APROVED OTHER)	P4RDF SERIES	TYPE :4.5" DIA DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :NA VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT C1E SHALL HAVE BATTERY BACKUP LOBBY, CORRIDORS
C2	LED 3000K 1175LM 9W	USAI LIGHTING (OR APROVED OTHER)	P3RD SERIES	TYPE :3" DIA DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :NA VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT C2E SHALL HAVE BATTERY BACKUP LOBBIES
S1	LED 3000K 1025LM 15W	USAI LIGHTING (OR APROVED OTHER)	BEVELED P4RDF SERIES	TYPE :4.5" DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :ALUMINUM LENS/REFL :SOLITE VOLTAGE :MVOLT BALLAST :LED DRIVER	UL LISTED WET LOCATION FINISH PER ARCHITECT MAIN BUILDING ENTRANCES
S2	LED 3000K 960LM 21W	WAC LIGHTING (OR APROVED OTHER)	WS-W37617 SERIES	TYPE :EXTERIOR SCONCE MOUNTING :SURFACE (+7'-6" AFG) HOUSING :ALUMINUM LENS/REFL :TEMPERED GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER	.FINISH PER ARCHITECT BUILDING EXTERIOR
S3	LED 3000K 3590LM 38W	LITHONIA LIGHTING (OR APROVED OTHER)	DSXOLEDP1 SERIES	TYPE :AREA LIGHT MOUNTING :POLE MOUNTED (20FT POLE) HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	TYPE BLC DISTRIBUTION PROVIDE WITH GLARE SHEILD IF NEEDED PARKING AREA
'X'	LED (GREEN LETTERS) (1.5W)	LITHONIA DMF LIGHTING (OR APROVED OTHER)	LE EL N SERIES DLED500EM-G	TYPE :EXIT SIGN MOUNTING :UNIVERSAL HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE FACE/DUAL FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	

LIGHTING FIXTURE LIST – DWELLING UNITS

TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
U1	LED 650 LM 3000K 10W	LIGHTOLIER (OR APPROVED OTHER)	SSR SERIES	TYPE :5" DIA. DOWNLIGHT MOUNTING :SURFACE (J-BOX) HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT. UNIT KITCHEN, HALL
U2	LED 750 LUMEN 3000K (18W)	KUZCO LIGHTING (OR APPROVED OTHER)	FM3511 SERIES	TYPE :11" DIA. CEILING LIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :GLASS VOLTAGE :120V BALLAST :LED DRIVER	FINISH PER ARCHITECT. UNIT DINING
U3	LED 3000K 1600LM 20W	KUZCO LIGHTING (OR APPROVED OTHER)	VL62220 SERIES	TYPE :20" VANITY BAR MOUNTING :SURFACE (=6" ABOVE MIRROR) HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING)	FINISH PER ARCHITECT UNIT BATHROOM
U4	LED 3000K 800LM 12W	KUZCO LIGHTING (OR APPROVED OTHER)	EW3105 SERIES	TYPE :EXTERIOR SCONCE MOUNTING :SURFACE (+6.5FT AFF) HOUSING :ALUMINUM LENS/REFL :TEMPERED GLASS VOLTAGE :120V BALLAST :LED DRIVER	FINISH PER ARCHITECT PATIOS

GENERAL NOTES:

A. ALL LIGHT FIXTURES SHALL HAVE ENERGY EFFICIENT LAMPING AND BALLASTS.

B. LIGHT FIXTURES FOR LIVING UNITS SHALL BE "ENERGY STAR" RATED.

C. EXTERIOR LIGHT FIXTURES SHALL BE "NIGHT SKY" FRIENDLY.

D. VERIFY ALL FIXTURE FINISHES WITH ARCHITECT PRIOR TO BID.

E. VERIFY ALL FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO BID.

F. VERIFY ALL FIXTURE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH IN.

G. ALL INTERIOR LIGHTING SHALL BE 3000 KELVIN UNLESS OTHERWISE NOTED.

H. ALL PRODUCT SUBSTITUTIONS AND VALUE ENGINEERING SHALL BE SUBMITTED DURING BID PHASE, SHALL MEET DESIGN INTENT AND IS SUBJECT TO OWNER APPROVAL.

I. CONTRACTOR SHALL CONSULT MANUFACTURER INSTALLATION INSTRUCTIONS FOR ALL FIXTURES AND DEVICES AND INSTALL AS INSTRUCTED. THIS INCLUDES ALL ELECTRICAL COMPONENTS REQUIRED FOR COMPLETE INSTALLATION. WORK SHALL BE PERFORMED SUCH THAT MANUFACTURER WARRANTY IS NOT VOIDED.

J. THE ELECTRICAL CONTRACTOR SHALL CONSULT THE ARCHITECT AND/OR INTERIOR DESIGN PLAN SET FOR ALL FINISHES, MOUNTING HEIGHTS AND EXACT LOCATIONS.

K. IF NECESSARY, CONTRACTOR SHALL PROVIDE IC RATED BOXES FOR ANY APPROVED, SUBSTITUTED FIXTURES NOT MEETING INSULATED CEILING REQUIREMENTS.

L. BUILDING MOUNTED EXTERIOR LIGHTS TO BE CONTROLLED VIA PHOTOCELL AND BE CIRCUITED VIA LIGHTING CONTROL SYSTEM TO REDUCE LIGHT OUTPUT BY 30% DURING LATE NIGHT. FIXTURES DESIGNATED TO BE EGRESS SHALL BE BE WIRED SUCH THAT IN THE EVENT OF A POWER OUTAGE, THE LIGHTS AUTOMATICALLY RETURN TO FULL OUTPUT. TIME CLOCK SETTINGS TO BE DETERMINED BY THE OWNER.

⬡ KEYED LIGHTING NOTES:

1. CONTRACTOR TO DETERMINE FIXTURE LENGTH BASED ON ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING PLANS. DESIGN INTENT IS FOR THE FIXTURE TO RUN THE ENTIRE LENGTH OF THE "COVE" TO PROVIDE EVEN LIGHT DISTRIBUTION.
2. STAIRWELL AND BOH CORRIDOR LIGHT FIXTURES TO BE EQUIPPED WITH FACTORY INSTALLED (OR REMOTE) OCCUPANCY SENSORS FOR MIN. 50% LIGHT REDUCTION DURING PERIODS OF NO ACTIVITY.
3. MAXIMUM RUN LENGTH FOR SPECIFIED COVE LIGHT FIXTURE IS (186) 4FT UNITS. MULTIPLE RUNS SHALL BE CIRCUITED AS NOTED ON THE PLANS. CONTRACTOR SHALL PROVIDE THE APPROPRIATE MOUNTING AND CONNECTING HARDWARE PER MANUFACTURER'S REQUIREMENTS. CONSULT VENDOR FOR ADDITIONAL INSTALLATION INFORMATION.
4. CONTRACTOR TO PROVIDE ALL REQUIRED COMPONENTS FOR COMPLETE INSTALL. 24V FIXTURE TRANSFORMER/POWER SUPPLY TO BE LOCATED IN THE CABINET BELOW THE SHELVING.
5. CONTRACTOR TO PROVIDE SINGLE POLE DIMMER SWITCHES AS INDICATED ON SHEETS E4.01-E4.03. DIMMER SWITCHES SHALL MATCH THE DECORATOR TYPE ROCKER SWITCH SPECIFIED IN THE TYPICAL UNIT LIGHTING PLANS OR AS DIRECTED BY THE OWNER. DIMMER SWITCHES SHALL BE COMPATIBLE WITH THE LED LIGHT FIXTURES AND SHALL BE FULLY ADJUSTABLE. CONTRACTOR SHALL FIELD ADJUST TO REDUCE ANY MOMENTARY FLASH DURING START UP.
6. PROVIDE BLOCKING AT CEILING TO SUPPORT 35LB., MINIMUM, FOR CEILING FAN INSTALLATION. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. PROVIDE FIXTURE CONTROL SWITCH(ES) AS DIRECTED BY MANUFACTURER.
7. PROVIDE WITH WEATHER PROOF J-BOX FOR SOIL CONTACT.
8. VERIFY MOUNTING HEIGHT OF FIXTURES IS NOT IN CONFLICT WITH ROOM EQUIPMENT.
9. BOLLARD LIGHTS ALONG THE BUILDING WALKWAYS SHALL BE INSTALLED SUCH THAT ANY PROJECTION FACES AWY FROM THE BUILDING.

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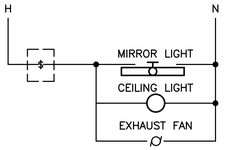
CHECKED BY: RLC

REGISTERED PROFESSIONAL ENGINEER
16,597
OREGON
JULY 20, 1995
ROBERT L. CONRELL
EXPIRES 12-31-2021

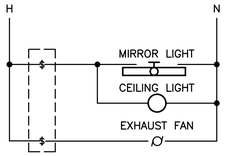
PROJECT NO: 2068

SHEET TITLE:
LIGHT FIXTURE SCHEDULE

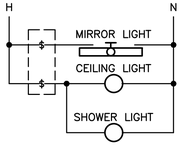
SHEET NO.
E1.21



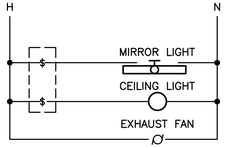
BATHROOM LIGHTS AND EXHAUST FAN ON SINGLE SWITCH



BATHROOM LIGHTS AND EXHAUST FAN SWITCHED SEPARATELY

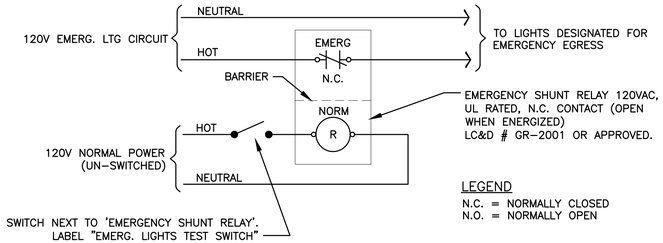


BATHROOM W/ VANITY LIGHT SWITCHED SEPARATE FROM CEILING LIGHTS

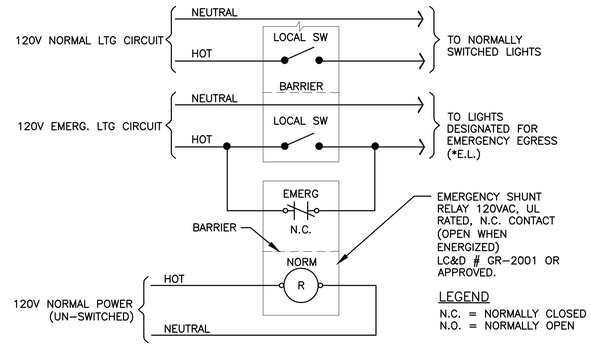


BATHROOM W/ VANITY LIGHT SWITCHED SEPARATE FROM CEILING LIGHTS & CONTINUOUS OPERATION EXHAUST FAN

1 / E1.22 BATHROOM SWITCHING DIAGRAMS – TYPICAL
NO SCALE



2 / E1.22 EMERGENCY EGRESS LIGHTING – UNSWITCHED
NO SCALE



3 / E1.22 EMERGENCY EGRESS LIGHTING – SWITCHED
NO SCALE

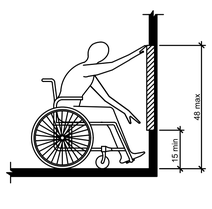


Figure 308.2.1
Unobstructed Forward Reach

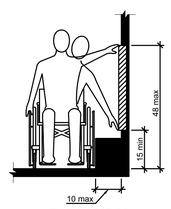


Figure 308.3.1
Unobstructed Side Reach

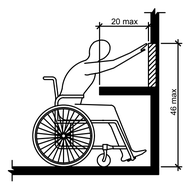
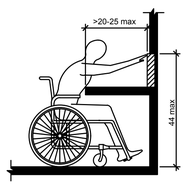


Figure 308.2.2
Obstructed High Forward Reach



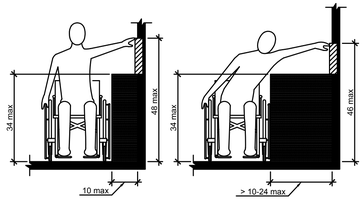


Figure 308.3.2
Obstructed High Side Reach

4 / E1.22 ADA REACH REQUIREMENTS
NO SCALE

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48" maximum and the low forward reach shall be 15" minimum above the floor or ground.

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor or ground space shall extend beneath the element for a distance not less thank the required reach depth over the obstruction. The high forward reach shall be 48" maximum where the reach depth is 20" maximum. Where the reach depth exceeds 20", the high forward reach shall be 44" maximum and the reach depth shall be 25" maximum.

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48" maximum and the low side reach shall be 15" minimum above the floor or ground.

Exception: Existing elements shall be permitted at 54" maximum above the floor or ground.

308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an object and the high side reach is over an obstruction, the height of the obstruction shall be 34" maximum and the depth of the obstruction shall 24" maximum. The high side reach shall be 48" maximum for a reach depth of 10" maximum. Where the reach depth exceeds 10", the high side reach shall be 46" maximum for a reach depth of 24" maximum.

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DRAWN BY: DMT
CHECKED BY: RLC

REGISTERED PROFESSIONAL ENGINEER 16,597 OREGON JULY 20, 1993 ROBERT L. CONRELL
EXPIRES 12-31-2021

PROJECT NO: 2068

SHEET TITLE:
ELECTRICAL DETAILS

SHEET NO.
E1.22

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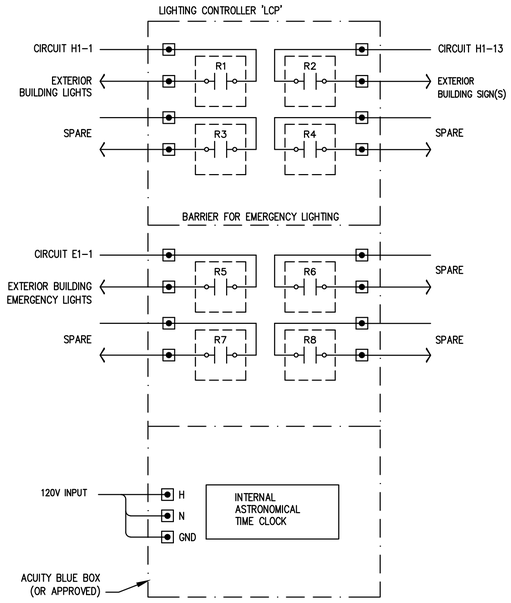
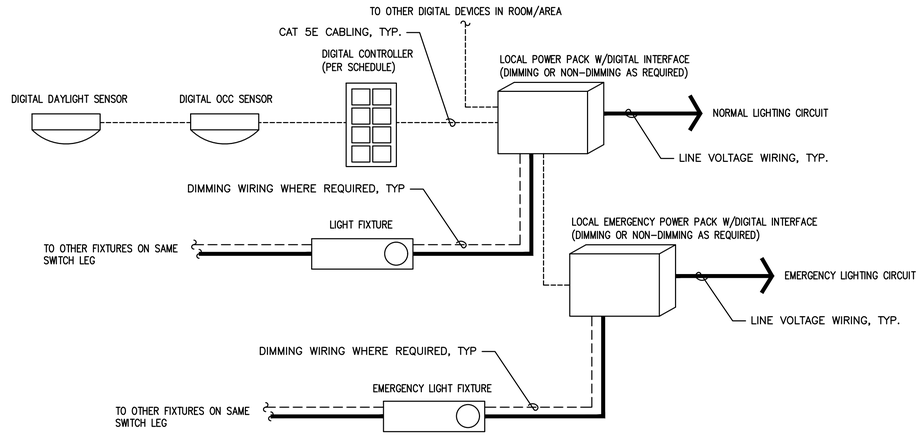


1 E1.23 LIGHTING CONTROL SYSTEM DIAGRAM – LCP

NO SCALE

TYPICAL FOR EACH BUILDING



2 E1.23 LIGHTING/RECEPTACLE CONTROL DIAGRAM (TYPICAL)

NO SCALE

LIGHTING CONTROLS LEGEND	
$_{LV1}$	DIGITAL CONTROLLER WITH ON/OFF PUSHBUTTONS
$_{LV2}$	DIGITAL CONTROLLER WITH SINGLE ZONE ON/OFF PUSHBUTTONS AND UP/DOWN DIM BUTTONS
$_{LV3}$	DIGITAL GRAPHIC CONTROLLER WITH MULTI ZONE ON/OFF PUSHBUTTONS AND UP/DOWN DIM BUTTONS

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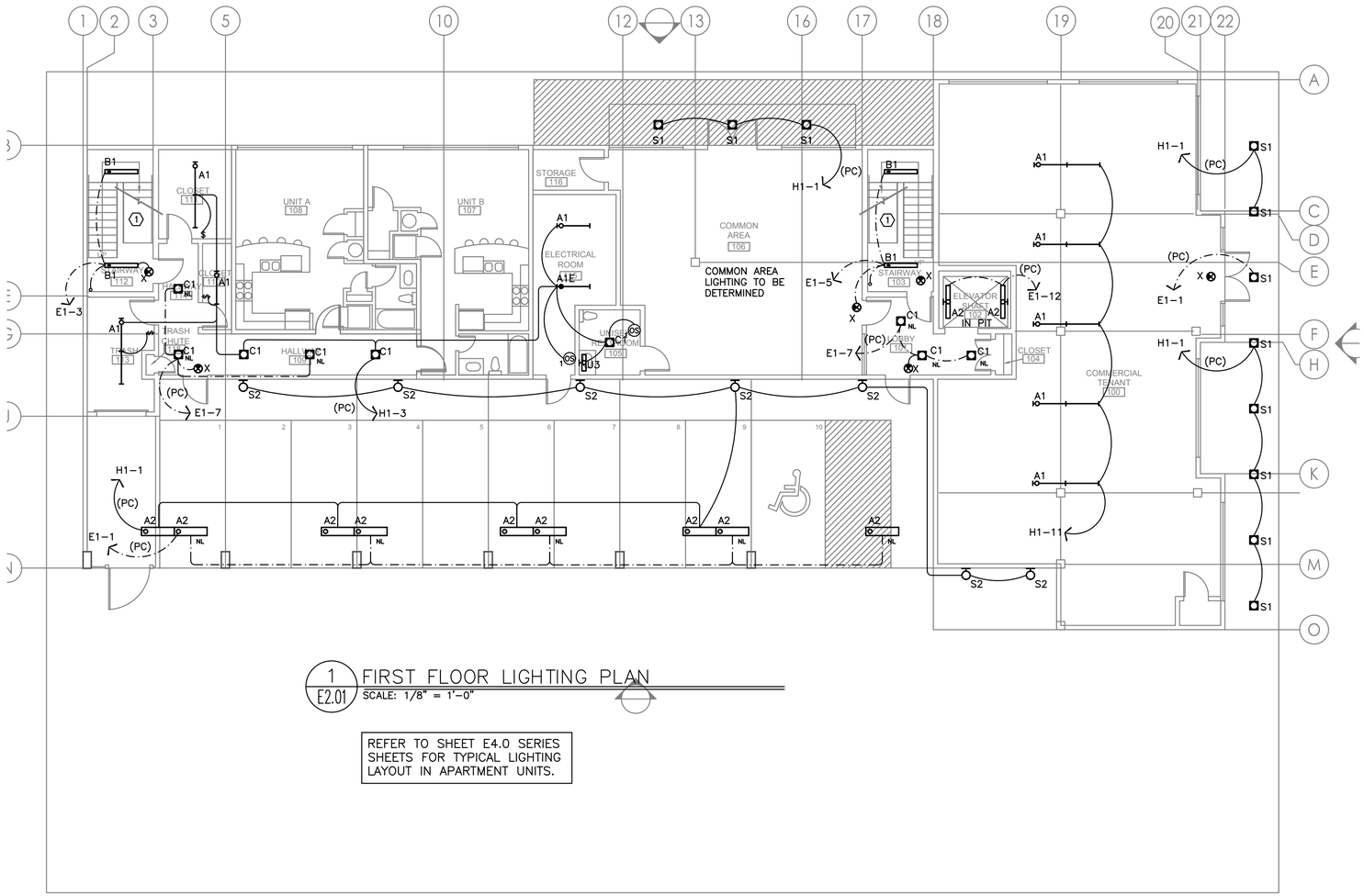
PROJECT NO: 2068

SHEET TITLE:
LIGHTING CONTROL SYSTEMS

SHEET NO:
E1.23



1 E2.01 FIRST FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

REFER TO SHEET E4.0 SERIES SHEETS FOR TYPICAL LIGHTING LAYOUT IN APARTMENT UNITS.

GENERAL LIGHTING NOTES:

A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.

B. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.

C. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE RESIDENTIAL UNITS.

D. REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULES AND DETAILS.

E. THE CONTRACTOR SHALL CONSULT THE ARCHITECT AND/OR INTERIOR DESIGNER FOR THE EXACT LOCATION OF ALL LIGHT FIXTURES PRIOR TO THE START OF ANY ROUGH IN WORK

F. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.

G. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.

H. PROVIDE DIGITAL LIGHTING CONTROLS FOR EACH ROOM/SPACE, CONSISTING OF MULTI-BUTTON SWITCH(ES), OCC SENSORS, POWER PACKS, DAYLIGHT SENSORS, DIMMERS, INTERCONNECTING WIRING, ETC.

I. CORRIDOR LIGHTING TO BE CONSTANT "ON" AND PROVIDED WITH OCCUPANCY SENSORS AND/OR TIME CLOCKS TO REDUCE LIGHT LEVELS BY 50% DURING PERIODS OF LOW ACTIVITY.

J. ALL EGRESS FIXTURES SHALL BE WIRED SUCH THAT IN THE EVENT OF A POWER FAILURE, ALL LIGHTS WILL AUTOMATICALLY RETURN TO FULL POWER. REFER TO SWITCHING DETAILS ON SHEET E1.22.

K. EGRESS LIGHT FIXTURES TO BE CONSTANT 'ON' AND FAIL SAFE TO FULL LIGHT OUTPUT IN THE EVENT OF A POWER OUTAGE. TIE FIXTURES INTO CORRIDOR EGRESS CIRCUIT. SEE DETAIL 4 ON E1.22.

⬡ KEYED NOTES:

1. CONTINUE CIRCUIT UP THROUGH THE STAIRWELL.

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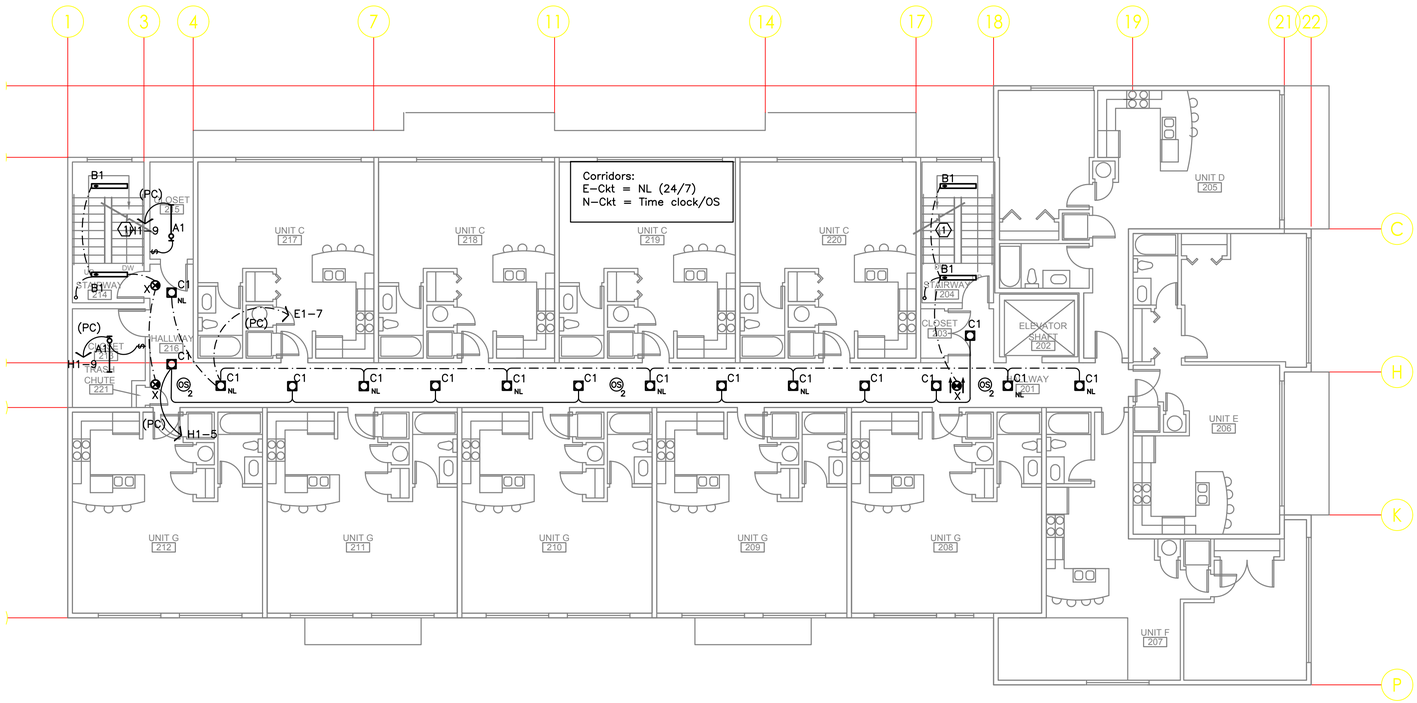
PROJECT NO: 2068

SHEET TITLE:
FIRST FLOOR LIGHTING PLAN

SHEET NO:
E2.01



1 SECOND FLOOR LIGHTING PLAN
E2.02 SCALE: 1/8" = 1'-0"

REFER TO SHEET E4.0 SERIES SHEETS FOR TYPICAL LIGHTING LAYOUT IN APARTMENT UNITS.

GENERAL LIGHTING NOTES:

A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.

B. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.

C. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE RESIDENTIAL UNITS.

D. REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULES AND DETAILS.

E. THE CONTRACTOR SHALL CONSULT THE ARCHITECT AND/OR INTERIOR DESIGNER FOR THE EXACT LOCATION OF ALL LIGHT FIXTURES PRIOR TO THE START OF ANY ROUGH IN WORK

F. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.

G. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.

H. PROVIDE DIGITAL LIGHTING CONTROLS FOR EACH ROOM/SPACE, CONSISTING OF MULTI-BUTTON SWITCH(ES), OCC SENSORS, POWER PACKS, DAYLIGHT SENSORS, DIMMERS, INTERCONNECTING WIRING, ETC.

I. CORRIDOR LIGHTING TO BE CONSTANT "ON" AND PROVIDED WITH OCCUPANCY SENSORS AND/OR TIME CLOCKS TO REDUCE LIGHT LEVELS BY 50% DURING PERIODS OF LOW ACTIVITY.

J. ALL EGRESS FIXTURES SHALL BE WIRED SUCH THAT IN THE EVENT OF A POWER FAILURE, ALL LIGHTS WILL AUTOMATICALLY RETURN TO FULL POWER. REFER TO SWITCHING DETAILS ON SHEET E1.22.

K. EGRESS LIGHT FIXTURES TO BE CONSTANT 'ON' AND FAIL SAFE TO FULL LIGHT OUTPUT IN THE EVENT OF A POWER OUTAGE. TIE FIXTURES INTO CORRIDOR EGRESS CIRCUIT. SEE DETAIL 4 ON E1.22.

⬡ KEYED NOTES:

1. CONTINUE CIRCUIT UP THROUGH THE STAIRWELL.

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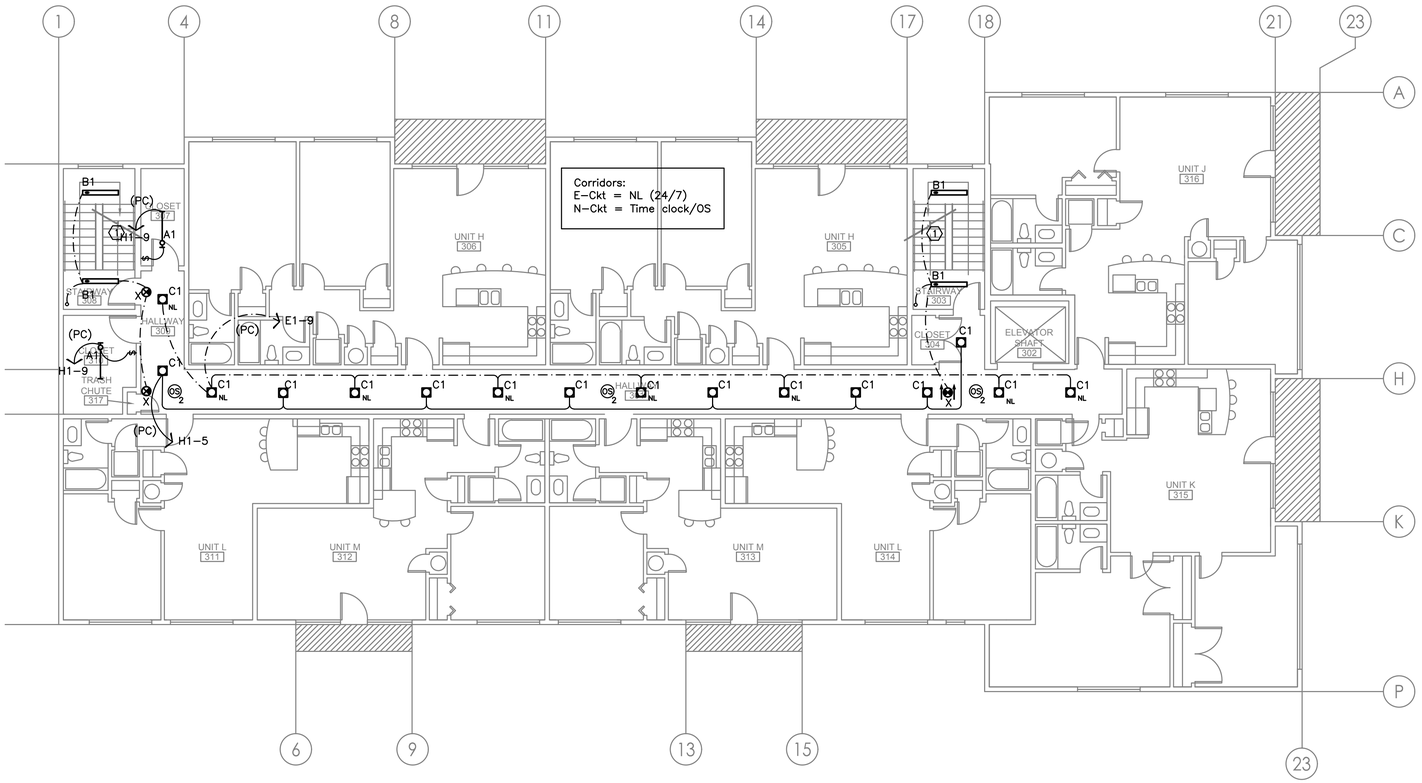
EXPIRES 12-31-2021

PROJECT NO: 2068

SHEET TITLE:
SECOND FLOOR LIGHTING PLAN

SHEET NO:
E2.02



1 E2.03 THIRD FLOOR LIGHTING PLAN

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

REFER TO SHEET E4.0 SERIES SHEETS FOR TYPICAL LIGHTING LAYOUT IN APARTMENT UNITS.

GENERAL LIGHTING NOTES:

A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.

B. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.

C. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE RESIDENTIAL UNITS.

D. REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULES AND DETAILS.

E. THE CONTRACTOR SHALL CONSULT THE ARCHITECT AND/OR INTERIOR DESIGNER FOR THE EXACT LOCATION OF ALL LIGHT FIXTURES PRIOR TO THE START OF ANY ROUGH IN WORK

F. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.

G. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.

H. PROVIDE DIGITAL LIGHTING CONTROLS FOR EACH ROOM/SPACE, CONSISTING OF MULTI-BUTTON SWITCH(ES), OCC SENSORS, POWER PACKS, DAYLIGHT SENSORS, DIMMERS, INTERCONNECTING WIRING, ETC.

I. CORRIDOR LIGHTING TO BE CONSTANT "ON" AND PROVIDED WITH OCCUPANCY SENSORS AND/OR TIME CLOCKS TO REDUCE LIGHT LEVELS BY 50% DURING PERIODS OF LOW ACTIVITY.

J. ALL EGRESS FIXTURES SHALL BE WIRED SUCH THAT IN THE EVENT OF A POWER FAILURE, ALL LIGHTS WILL AUTOMATICALLY RETURN TO FULL POWER. REFER TO SWITCHING DETAILS ON SHEET E1.22.

K. EGRESS LIGHT FIXTURES TO BE CONSTANT 'ON' AND FAIL SAFE TO FULL LIGHT OUTPUT IN THE EVENT OF A POWER OUTAGE. TIE FIXTURES INTO CORRIDOR EGRESS CIRCUIT. SEE DETAIL 4 ON E1.22.

⬡ KEYED NOTES:

1. CONTINUE CIRCUIT UP THROUGH THE STAIRWELL.

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VERSION LOG:

DATE: 01.26.2021
DRAWN BY: DMT
CHECKED BY: RLC

REGISTERED PROFESSIONAL ENGINEER 16,597 OREGON JULY 20, 1993 ROBERT L. CONRELL
EXPIRES 12-31-2021

PROJECT NO: 2068

SHEET TITLE:
THIRD FLOOR LIGHTING PLAN

SHEET NO.
E2.03

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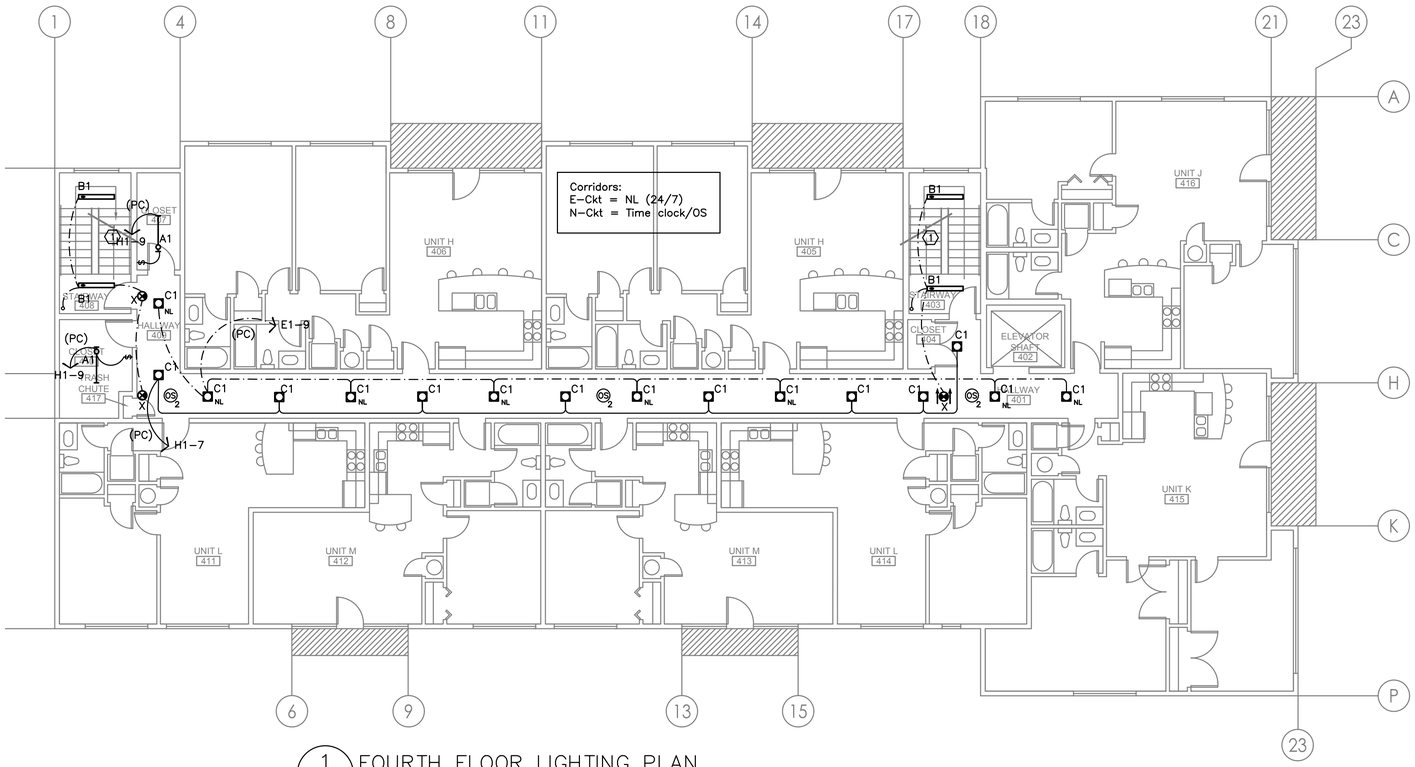

1 E2.04 FOURTH FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

REFER TO SHEET E4.0 SERIES SHEETS FOR TYPICAL LIGHTING LAYOUT IN APARTMENT UNITS.

GENERAL LIGHTING NOTES:

A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.

B. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.

C. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE RESIDENTIAL UNITS.

D. REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULES AND DETAILS.

E. THE CONTRACTOR SHALL CONSULT THE ARCHITECT AND/OR INTERIOR DESIGNER FOR THE EXACT LOCATION OF ALL LIGHT FIXTURES PRIOR TO THE START OF ANY ROUGH IN WORK

F. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.

G. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.

H. PROVIDE DIGITAL LIGHTING CONTROLS FOR EACH ROOM/SPACE, CONSISTING OF MULTI-BUTTON SWITCH(ES), OCC SENSORS, POWER PACKS, DAYLIGHT SENSORS, DIMMERS, INTERCONNECTING WIRING, ETC.

I. CORRIDOR LIGHTING TO BE CONSTANT "ON" AND PROVIDED WITH OCCUPANCY SENSORS AND/OR TIME CLOCKS TO REDUCE LIGHT LEVELS BY 50% DURING PERIODS OF LOW ACTIVITY.

J. ALL EGRESS FIXTURES SHALL BE WIRED SUCH THAT IN THE EVENT OF A POWER FAILURE, ALL LIGHTS WILL AUTOMATICALLY RETURN TO FULL POWER. REFER TO SWITCHING DETAILS ON SHEET E1.22.

K. EGRESS LIGHT FIXTURES TO BE CONSTANT 'ON' AND FAIL SAFE TO FULL LIGHT OUTPUT IN THE EVENT OF A POWER OUTAGE. TIE FIXTURES INTO CORRIDOR EGRESS CIRCUIT. SEE DETAIL 4 ON E1.22.

⬡ KEYED NOTES:

1. CONTINUE CIRCUIT UP THROUGH THE STAIRWELL.

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VERSION LOG:

DATE: 01.26.2021
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REGISTERED PROFESSIONAL ENGINEER
16,597
OREGON
JULY 20, 1993
ROBERT L. CONNELL
EXPIRES 12-31-2021

PROJECT NO: 2068

SHEET TITLE:
FOURTH FLOOR LIGHTING PLAN

SHEET NO:
E2.04

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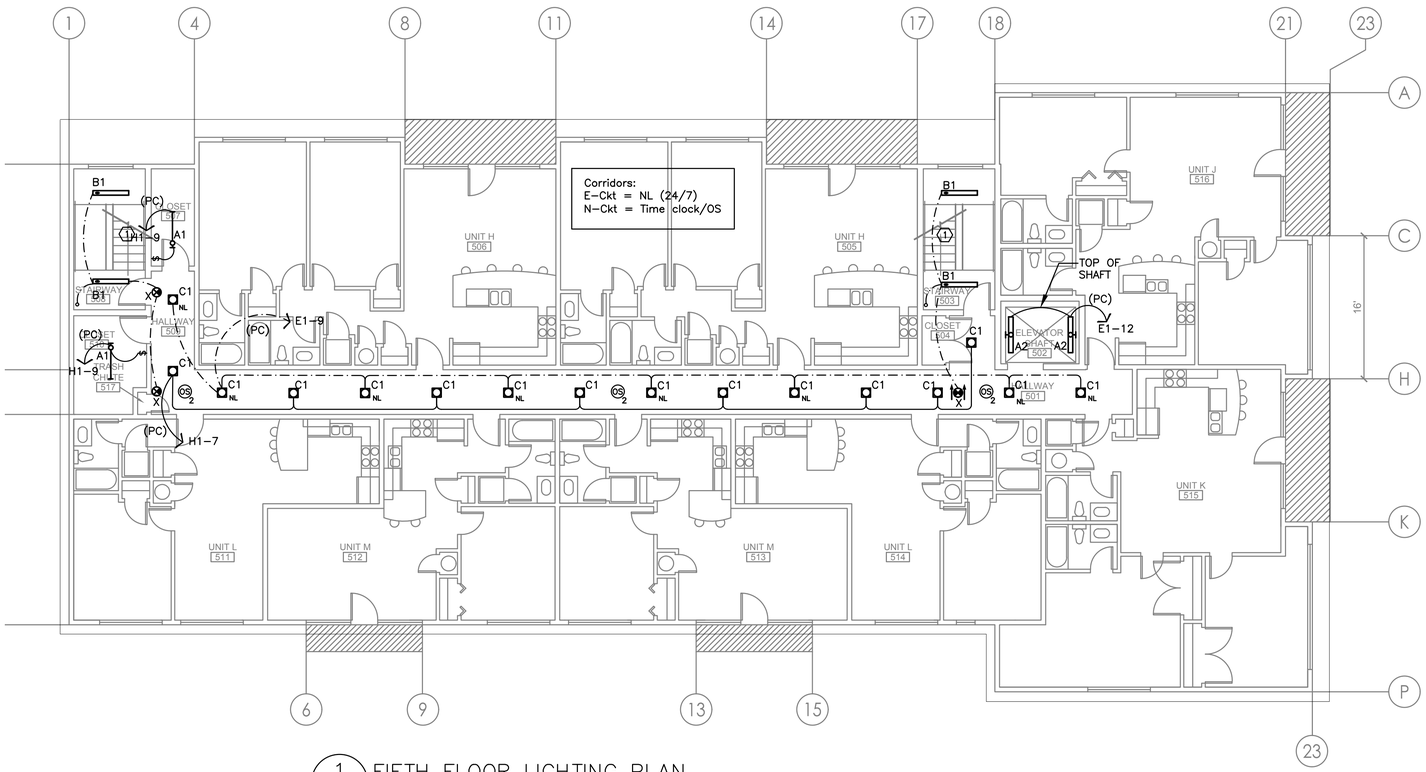

1 E2.05 FIFTH FLOOR LIGHTING PLAN

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

REFER TO SHEET E4.0 SERIES SHEETS FOR TYPICAL LIGHTING LAYOUT IN APARTMENT UNITS.

GENERAL LIGHTING NOTES:

A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.

B. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.

C. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE RESIDENTIAL UNITS.

D. REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULES AND DETAILS.

E. THE CONTRACTOR SHALL CONSULT THE ARCHITECT AND/OR INTERIOR DESIGNER FOR THE EXACT LOCATION OF ALL LIGHT FIXTURES PRIOR TO THE START OF ANY ROUGH IN WORK

F. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.

G. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.

H. PROVIDE DIGITAL LIGHTING CONTROLS FOR EACH ROOM/SPACE, CONSISTING OF MULTI-BUTTON SWITCH(ES), OCC SENSORS, POWER PACKS, DAYLIGHT SENSORS, DIMMERS, INTERCONNECTING WIRING, ETC.

I. CORRIDOR LIGHTING TO BE CONSTANT "ON" AND PROVIDED WITH OCCUPANCY SENSORS AND/OR TIME CLOCKS TO REDUCE LIGHT LEVELS BY 50% DURING PERIODS OF LOW ACTIVITY.

J. ALL EGRESS FIXTURES SHALL BE WIRED SUCH THAT IN THE EVENT OF A POWER FAILURE, ALL LIGHTS WILL AUTOMATICALLY RETURN TO FULL POWER. REFER TO SWITCHING DETAILS ON SHEET E1.22.

K. EGRESS LIGHT FIXTURES TO BE CONSTANT 'ON' AND FAIL SAFE TO FULL LIGHT OUTPUT IN THE EVENT OF A POWER OUTAGE. TIE FIXTURES INTO CORRIDOR EGRESS CIRCUIT. SEE DETAIL 4 ON E1.22.

⬡ KEYED NOTES:

1. CONTINUE CIRCUIT UP THROUGH THE STAIRWELL.

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REGISTERED PROFESSIONAL ENGINEER
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OREGON
JULY 20, 1993
ROBERT L. CONNELL
EXPIRES 12-31-2021

PROJECT NO: 2068

SHEET TITLE:
FIFTH FLOOR LIGHTING PLAN

SHEET NO:
E2.05

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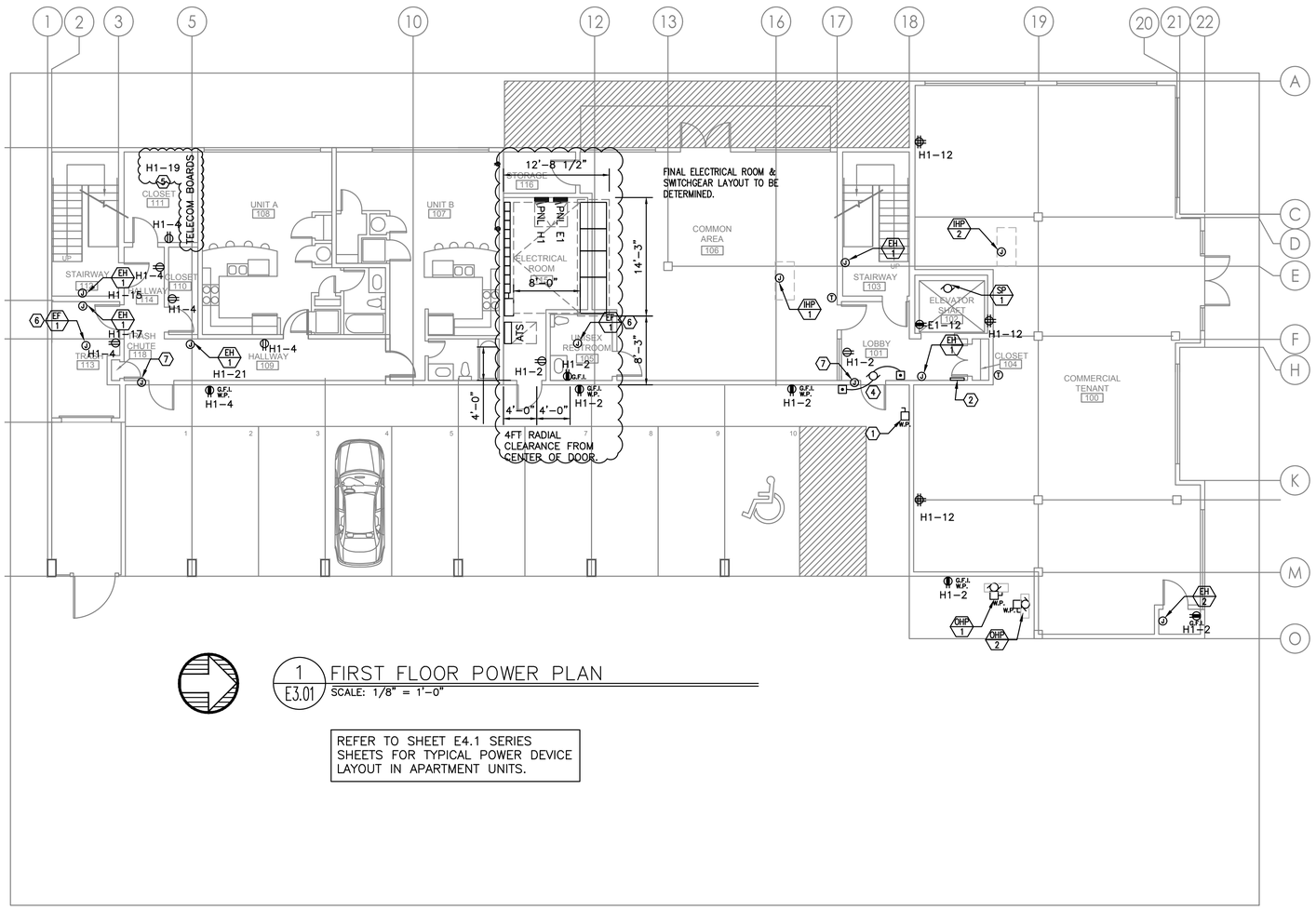

1 E3.01 FIRST FLOOR POWER PLAN

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

REFER TO SHEET E4.1 SERIES SHEETS FOR TYPICAL POWER DEVICE LAYOUT IN APARTMENT UNITS.

GENERAL POWER NOTES:

A. ALL PLANS ARE CONSIDERED DIAGRAMMATICAL. THEREFORE ALL EQUIPMENT SIZES AND DEVICE LOCATIONS ARE APPROXIMATE AND SUBJECT TO FIELD CONDITIONS AND PRODUCT APPROVAL.

B. ELECTRICAL EQUIPMENT SHOWN IN THE ELECTRICAL ROOMS IS APPROXIMATE, BASED ON SIEMENS PRODUCTS. CONTRACTOR SHALL VERIFY ANY SUBMITTED EQUIPMENT WILL FIT WITHIN THE SPACE PROVIDED, PRIOR TO PRODUCT SUBMITTAL REVIEW.

C. GENERAL PURPOSE CONVENIENCE RECEPTACLES LOCATED ON THE BUILDING EXTERIOR, OTHER THAN INTERIOR COURT YARD, SHALL BE EQUIPPED WITH A LOCKING, WEATHER PROOF COVER.

D. THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.

E. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE CIVIL ENGINEER, TO VERIFY EXACT POWER REQUIREMENTS, LOCATIONS AND CONNECTION TYPE FOR ANY EQUIPMENT REQUIRING ELECTRICAL POWER, PRIOR TO ROUGH IN.

F. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL AND PLUMBING CONTRACTORS, TO VERIFY EXACT POWER REQUIREMENTS, LOCATIONS AND CONNECTION TYPE FOR ANY EQUIPMENT REQUIRING ELECTRICAL POWER, PRIOR TO ROUGH IN.

G. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LANDSCAPING CONTRACTOR, TO VERIFY EXACT POWER REQUIREMENTS, LOCATIONS AND CONNECTION TYPE FOR ANY EQUIPMENT REQUIRING ELECTRICAL POWER, PRIOR TO ROUGH IN.

H. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LOW VOLTAGE ('T' SERIES) PLANS, INCLUDING FIRE ALARM AND SYSTEMS INSTALLER, AND PROVIDE ROUGH IN AS NEEDED.

I. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS.

J. ROOF TOP GFCI RECEPTACLES TO BE PROVIDED WITHIN A 25FT RADIUS OF ALL MECHANICAL EQUIPMENT PER CODE. LOCATIONS SHOWN REPRESENT THIS. FINAL LOCATION(S) SHALL BE FIELD DETERMINED AND INSTALLED PER CODE.

⬡ KEYED NOTES:

1. GENERATOR DISCONNECT. SEE ONE-LINE DIAGRAM ON SHEET E1.11.
2. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR GENERATOR REMOTE ANNUNCIATOR. FED FROM PANEL E1.
3. VERIFY ELEVATOR EQUIPMENT LOCATION AND ELECTRICAL REQUIREMENTS WITH ARCHITECT AND/OR ELEVATOR PROVIDER.
4. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1 FOR AUTOMATIC DOOR OPENERS.
5. LOW VOLTAGE/COMMUNICATIONS SYSTEM DEMARCATION BOARD(S). COORDINATE LOCATIONS AND ELECTRICAL POWER REQUIREMENTS WITH THE TELECOM AND LOW VOLTAGE SYSTEMS INSTALLER(S). PROVIDE ROUGH IN AND/OR FINAL ELECTRICAL POWER CONNECTIONS. REFER PANEL 'H1' SCHEDULE ON E1.12 FOR RESERVED CIRCUITS.
6. CONTINUOUS OPERATION EXHAUST FAN TO BE TIED INTO THE LIGHTING CIRCUIT FOR THIS AREA, AHEAD OF THE LIGHTING CONTROLS. CONSULT MECHANICAL PLANS AND/OR EQUIPMENT INSTALLER FOR EXACT POWER REQUIREMENTS PRIOR TO ROUGH IN.
7. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1 FOR BUILDING ENTRY ACCESS CONTROL SYSTEM AND PROVIDE ROUGH IN AND WIRING TO ACCESS POINTS AS DETERMINED BY OWNER AND/OR ARCHITECT. CONSULT WITH THE SYSTEM INSTALLER FOR ADDITIONAL INFORMATION.
8. CONTINUOUS OPERATION SUPPLY FAN TO BE TIED INTO THE LIGHTING CIRCUIT FOR THIS AREA, AHEAD OF THE LIGHTING CONTROLS. CONSULT MECHANICAL PLANS AND/OR EQUIPMENT INSTALLER FOR EXACT POWER REQUIREMENTS PRIOR TO ROUGH IN.

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REGISTERED PROFESSIONAL ENGINEER 16,597 OREGON JULY 20, 1995 ROBERT L. CONNELL
EXPIRES 12-31-2021

PROJECT NO: 2068

SHEET TITLE:
FIRST FLOOR POWER PLAN

SHEET NO.
E3.01

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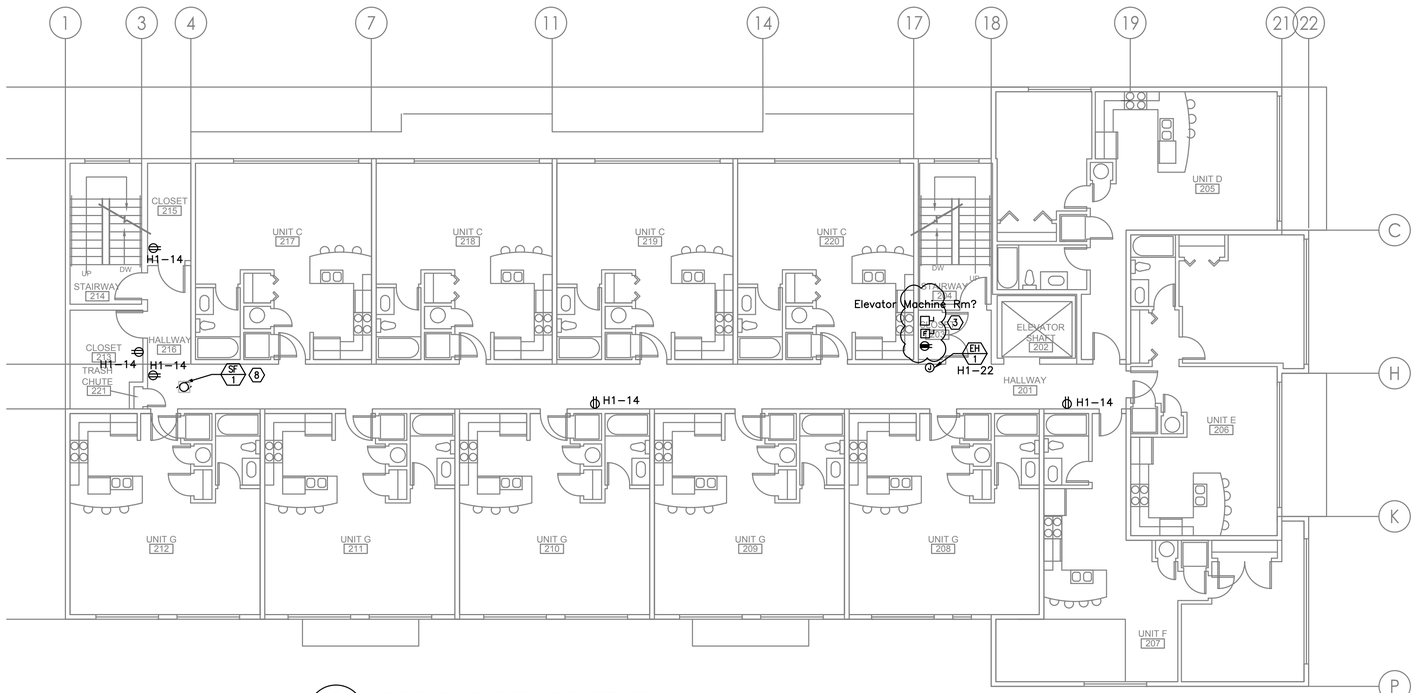

1 E3.02 SECOND FLOOR POWER PLAN

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

REFER TO SHEET E4.1 SERIES SHEETS FOR TYPICAL POWER DEVICE LAYOUT IN APARTMENT UNITS.

GENERAL POWER NOTES:

A. ALL PLANS ARE CONSIDERED DIAGRAMMATICAL. THEREFORE ALL EQUIPMENT SIZES AND DEVICE LOCATIONS ARE APPROXIMATE AND SUBJECT TO FIELD CONDITIONS AND PRODUCT APPROVAL.

B. ELECTRICAL EQUIPMENT SHOWN IN THE ELECTRICAL ROOMS IS APPROXIMATE, BASED ON SIEMENS PRODUCTS. CONTRACTOR SHALL VERIFY ANY SUBMITTED EQUIPMENT WILL FIT WITHIN THE SPACE PROVIDED, PRIOR TO PRODUCT SUBMITTAL REVIEW.

C. GENERAL PURPOSE CONVENIENCE RECEPTACLES LOCATED ON THE BUILDING EXTERIOR, OTHER THAN INTERIOR COURT YARD, SHALL BE EQUIPPED WITH A LOCKING, WEATHER PROOF COVER.

D. THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.

E. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE CIVIL ENGINEER, TO VERIFY EXACT POWER REQUIREMENTS, LOCATIONS AND CONNECTION TYPE FOR ANY EQUIPMENT REQUIRING ELECTRICAL POWER, PRIOR TO ROUGH IN.

F. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL AND PLUMBING CONTRACTORS, TO VERIFY EXACT POWER REQUIREMENTS, LOCATIONS AND CONNECTION TYPE FOR ANY EQUIPMENT REQUIRING ELECTRICAL POWER, PRIOR TO ROUGH IN.

G. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LANDSCAPING CONTRACTOR, TO VERIFY EXACT POWER REQUIREMENTS, LOCATIONS AND CONNECTION TYPE FOR ANY EQUIPMENT REQUIRING ELECTRICAL POWER, PRIOR TO ROUGH IN.

H. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LOW VOLTAGE ('T' SERIES) PLANS, INCLUDING FIRE ALARM AND SYSTEMS INSTALLER, AND PROVIDE ROUGH IN AS NEEDED.

I. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS.

J. ROOF TOP GFCI RECEPTACLES TO BE PROVIDED WITHIN A 25FT RADIUS OF ALL MECHANICAL EQUIPMENT PER CODE. LOCATIONS SHOWN REPRESENT THIS. FINAL LOCATION(S) SHALL BE FIELD DETERMINED AND INSTALLED PER CODE.

⬡ KEYED NOTES:

1. GENERATOR DISCONNECT. SEE ONE-LINE DIAGRAM ON SHEET E1.11.
2. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR GENERATOR REMOTE ANNUNCIATOR. FED FROM PANEL E1.
3. VERIFY ELEVATOR EQUIPMENT LOCATION AND ELECTRICAL REQUIREMENTS WITH ARCHITECT AND/OR ELEVATOR PROVIDER.
4. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1 FOR AUTOMATIC DOOR OPENERS.
5. LOW VOLTAGE/COMMUNICATIONS SYSTEM DEMARCATION BOARD(S). COORDINATE LOCATIONS AND ELECTRICAL POWER REQUIREMENTS WITH THE TELECOM AND LOW VOLTAGE SYSTEMS INSTALLER(S). PROVIDE ROUGH IN AND/OR FINAL ELECTRICAL POWER CONNECTIONS. REFER PANEL 'H1' SCHEDULE ON E1.12 FOR RESERVED CIRCUITS.
6. CONTINUOUS OPERATION EXHAUST FAN TO BE TIED INTO THE LIGHTING CIRCUIT FOR THIS AREA, AHEAD OF THE LIGHTING CONTROLS. CONSULT MECHANICAL PLANS AND/OR EQUIPMENT INSTALLER FOR EXACT POWER REQUIREMENTS PRIOR TO ROUGH IN.
7. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1 FOR BUILDING ENTRY ACCESS CONTROL SYSTEM AND PROVIDE ROUGH IN AND WIRING TO ACCESS POINTS AS DETERMINED BY OWNER AND/OR ARCHITECT. CONSULT WITH THE SYSTEM INSTALLER FOR ADDITIONAL INFORMATION.
8. CONTINUOUS OPERATION SUPPLY FAN TO BE TIED INTO THE LIGHTING CIRCUIT FOR THIS AREA, AHEAD OF THE LIGHTING CONTROLS. CONSULT MECHANICAL PLANS AND/OR EQUIPMENT INSTALLER FOR EXACT POWER REQUIREMENTS PRIOR TO ROUGH IN.

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REGISTERED PROFESSIONAL ENGINEER 16,597 OREGON JULY 20, 1993 ROBERT L. CONNELL
EXPIRES 12-31-2021

PROJECT NO: 2068

SHEET TITLE:
SECOND FLOOR POWER PLAN

SHEET NO.
E3.02

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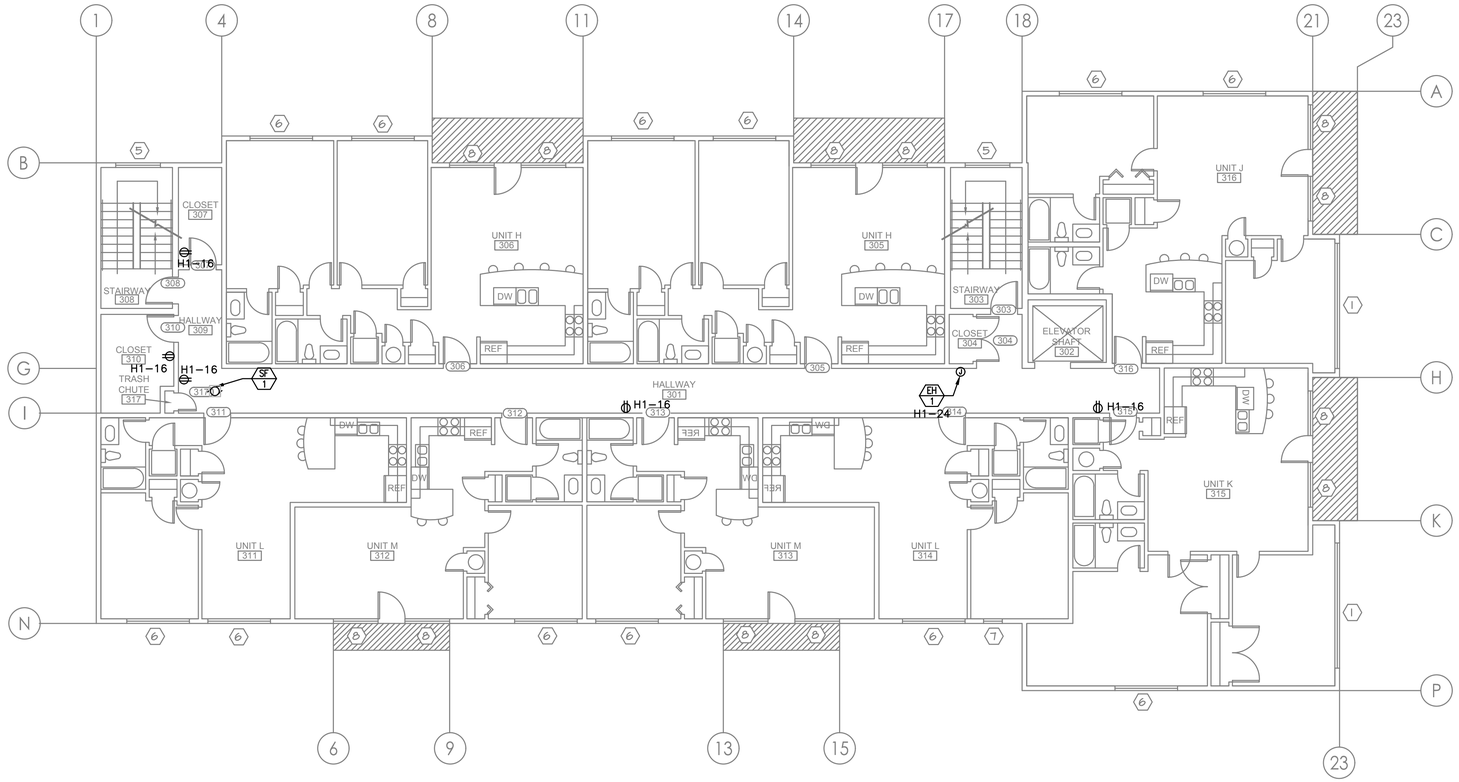

1 E3.03 THIRD FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"

REFER TO SHEET E4.1 SERIES SHEETS FOR TYPICAL POWER DEVICE LAYOUT IN APARTMENT UNITS.

GENERAL POWER NOTES:

A. ALL PLANS ARE CONSIDERED DIAGRAMMATICAL. THEREFORE ALL EQUIPMENT SIZES AND DEVICE LOCATIONS ARE APPROXIMATE AND SUBJECT TO FIELD CONDITIONS AND PRODUCT APPROVAL.

B. ELECTRICAL EQUIPMENT SHOWN IN THE ELECTRICAL ROOMS IS APPROXIMATE, BASED ON SIEMENS PRODUCTS. CONTRACTOR SHALL VERIFY ANY SUBMITTED EQUIPMENT WILL FIT WITHIN THE SPACE PROVIDED, PRIOR TO PRODUCT SUBMITTAL REVIEW.

C. GENERAL PURPOSE CONVENIENCE RECEPTACLES LOCATED ON THE BUILDING EXTERIOR, OTHER THAN INTERIOR COURT YARD, SHALL BE EQUIPPED WITH A LOCKING, WEATHER PROOF COVER.

D. THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.

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H. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LOW VOLTAGE ('T' SERIES) PLANS, INCLUDING FIRE ALARM AND SYSTEMS INSTALLER, AND PROVIDE ROUGH IN AS NEEDED.

I. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS.

J. ROOF TOP GFCI RECEPTACLES TO BE PROVIDED WITHIN A 25FT RADIUS OF ALL MECHANICAL EQUIPMENT PER CODE. LOCATIONS SHOWN REPRESENT THIS. FINAL LOCATION(S) SHALL BE FIELD DETERMINED AND INSTALLED PER CODE.

⬡ KEYED NOTES:

1. GENERATOR DISCONNECT. SEE ONE-LINE DIAGRAM ON SHEET E1.11.
2. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR GENERATOR REMOTE ANNUNCIATOR. FED FROM PANEL E1.
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6. CONTINUOUS OPERATION EXHAUST FAN TO BE TIED INTO THE LIGHTING CIRCUIT FOR THIS AREA, AHEAD OF THE LIGHTING CONTROLS. CONSULT MECHANICAL PLANS AND/OR EQUIPMENT INSTALLER FOR EXACT POWER REQUIREMENTS PRIOR TO ROUGH IN.
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THIRD FLOOR POWER PLAN
SHEET NO.
E3.03

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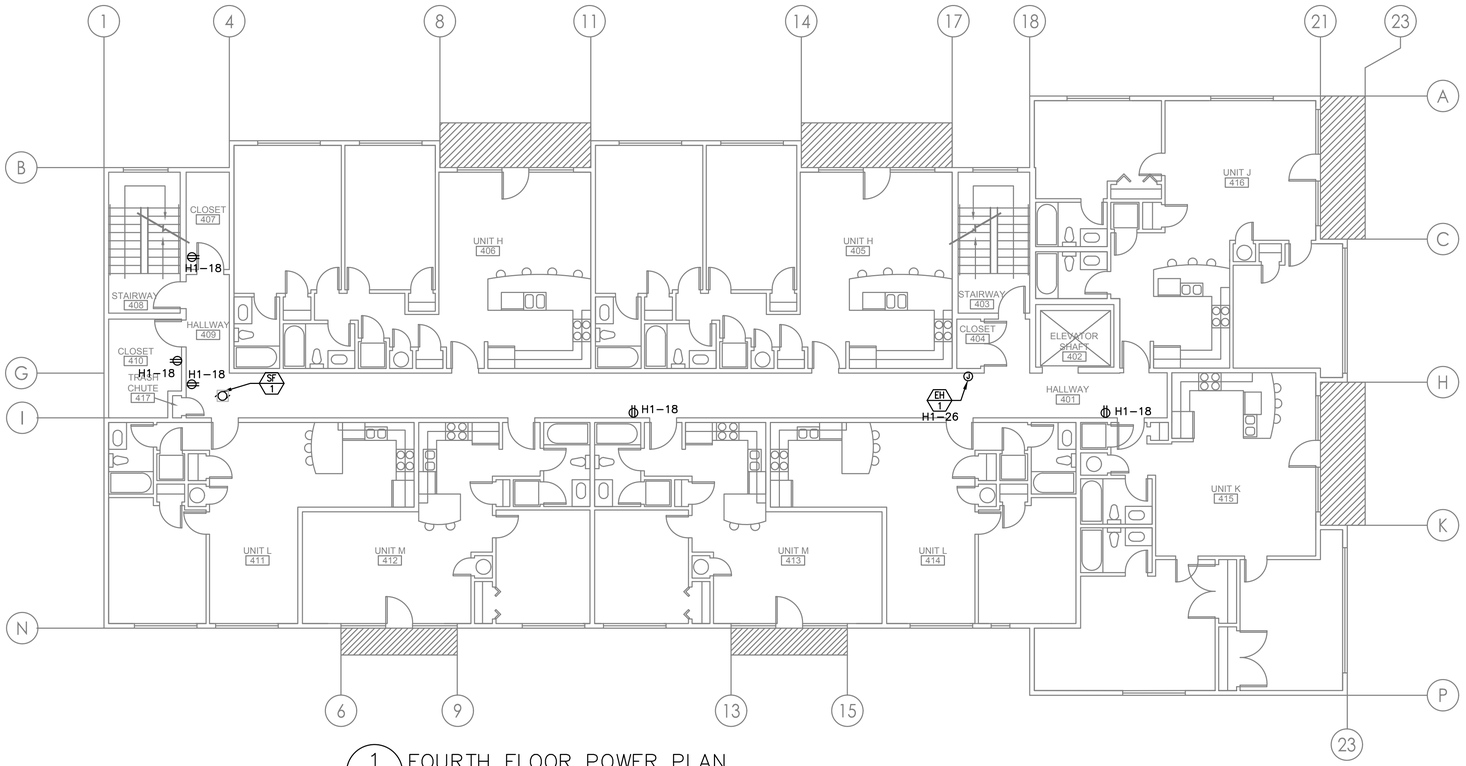

1 / E3.04 FOURTH FLOOR POWER PLAN

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

REFER TO SHEET E4.1 SERIES SHEETS FOR TYPICAL POWER DEVICE LAYOUT IN APARTMENT UNITS.

GENERAL POWER NOTES:

A. ALL PLANS ARE CONSIDERED DIAGRAMMATICAL. THEREFORE ALL EQUIPMENT SIZES AND DEVICE LOCATIONS ARE APPROXIMATE AND SUBJECT TO FIELD CONDITIONS AND PRODUCT APPROVAL.

B. ELECTRICAL EQUIPMENT SHOWN IN THE ELECTRICAL ROOMS IS APPROXIMATE, BASED ON SIEMENS PRODUCTS. CONTRACTOR SHALL VERIFY ANY SUBMITTED EQUIPMENT WILL FIT WITHIN THE SPACE PROVIDED, PRIOR TO PRODUCT SUBMITTAL REVIEW.

C. GENERAL PURPOSE CONVENIENCE RECEPTACLES LOCATED ON THE BUILDING EXTERIOR, OTHER THAN INTERIOR COURT YARD, SHALL BE EQUIPPED WITH A LOCKING, WEATHER PROOF COVER.

D. THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.

E. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE CIVIL ENGINEER, TO VERIFY EXACT POWER REQUIREMENTS, LOCATIONS AND CONNECTION TYPE FOR ANY EQUIPMENT REQUIRING ELECTRICAL POWER, PRIOR TO ROUGH IN.

F. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL AND PLUMBING CONTRACTORS, TO VERIFY EXACT POWER REQUIREMENTS, LOCATIONS AND CONNECTION TYPE FOR ANY EQUIPMENT REQUIRING ELECTRICAL POWER, PRIOR TO ROUGH IN.

G. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LANDSCAPING CONTRACTOR, TO VERIFY EXACT POWER REQUIREMENTS, LOCATIONS AND CONNECTION TYPE FOR ANY EQUIPMENT REQUIRING ELECTRICAL POWER, PRIOR TO ROUGH IN.

H. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LOW VOLTAGE ('T' SERIES) PLANS, INCLUDING FIRE ALARM AND SYSTEMS INSTALLER, AND PROVIDE ROUGH IN AS NEEDED.

I. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS.

J. ROOF TOP GFCI RECEPTACLES TO BE PROVIDED WITHIN A 25FT RADIUS OF ALL MECHANICAL EQUIPMENT PER CODE. LOCATIONS SHOWN REPRESENT THIS. FINAL LOCATION(S) SHALL BE FIELD DETERMINED AND INSTALLED PER CODE.

⬡ KEYED NOTES:

1. GENERATOR DISCONNECT. SEE ONE-LINE DIAGRAM ON SHEET E1.11.
2. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR GENERATOR REMOTE ANNUNCIATOR. FED FROM PANEL E1.
3. VERIFY ELEVATOR EQUIPMENT LOCATION AND ELECTRICAL REQUIREMENTS WITH ARCHITECT AND/OR ELEVATOR PROVIDER.
4. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1 FOR AUTOMATIC DOOR OPENERS.
5. LOW VOLTAGE/COMMUNICATIONS SYSTEM DEMARCATION BOARD(S). COORDINATE LOCATIONS AND ELECTRICAL POWER REQUIREMENTS WITH THE TELECOM AND LOW VOLTAGE SYSTEMS INSTALLER(S). PROVIDE ROUGH IN AND/OR FINAL ELECTRICAL POWER CONNECTIONS. REFER PANEL 'H1' SCHEDULE ON E1.12 FOR RESERVED CIRCUITS.
6. CONTINUOUS OPERATION EXHAUST FAN TO BE TIED INTO THE LIGHTING CIRCUIT FOR THIS AREA, AHEAD OF THE LIGHTING CONTROLS. CONSULT MECHANICAL PLANS AND/OR EQUIPMENT INSTALLER FOR EXACT POWER REQUIREMENTS PRIOR TO ROUGH IN.
7. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1 FOR BUILDING ENTRY ACCESS CONTROL SYSTEM AND PROVIDE ROUGH IN AND WIRING TO ACCESS POINTS AS DETERMINED BY OWNER AND/OR ARCHITECT. CONSULT WITH THE SYSTEM INSTALLER FOR ADDITIONAL INFORMATION.
8. CONTINUOUS OPERATION SUPPLY FAN TO BE TIED INTO THE LIGHTING CIRCUIT FOR THIS AREA, AHEAD OF THE LIGHTING CONTROLS. CONSULT MECHANICAL PLANS AND/OR EQUIPMENT INSTALLER FOR EXACT POWER REQUIREMENTS PRIOR TO ROUGH IN.

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HERMOSO MIXED-USE

7420 SE HERMOSO WAY
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VERSION LOG:

DATE: 01.26.2021
DRAWN BY: DMT
CHECKED BY: RLC

REGISTERED PROFESSIONAL ENGINEER 16,597 OREGON JULY 20, 1993 ROBERT L. CONBELL
EXPIRES 12-31-2021

PROJECT NO: 2068

SHEET TITLE: FOURTH FLOOR POWER PLAN

SHEET NO: E3.04

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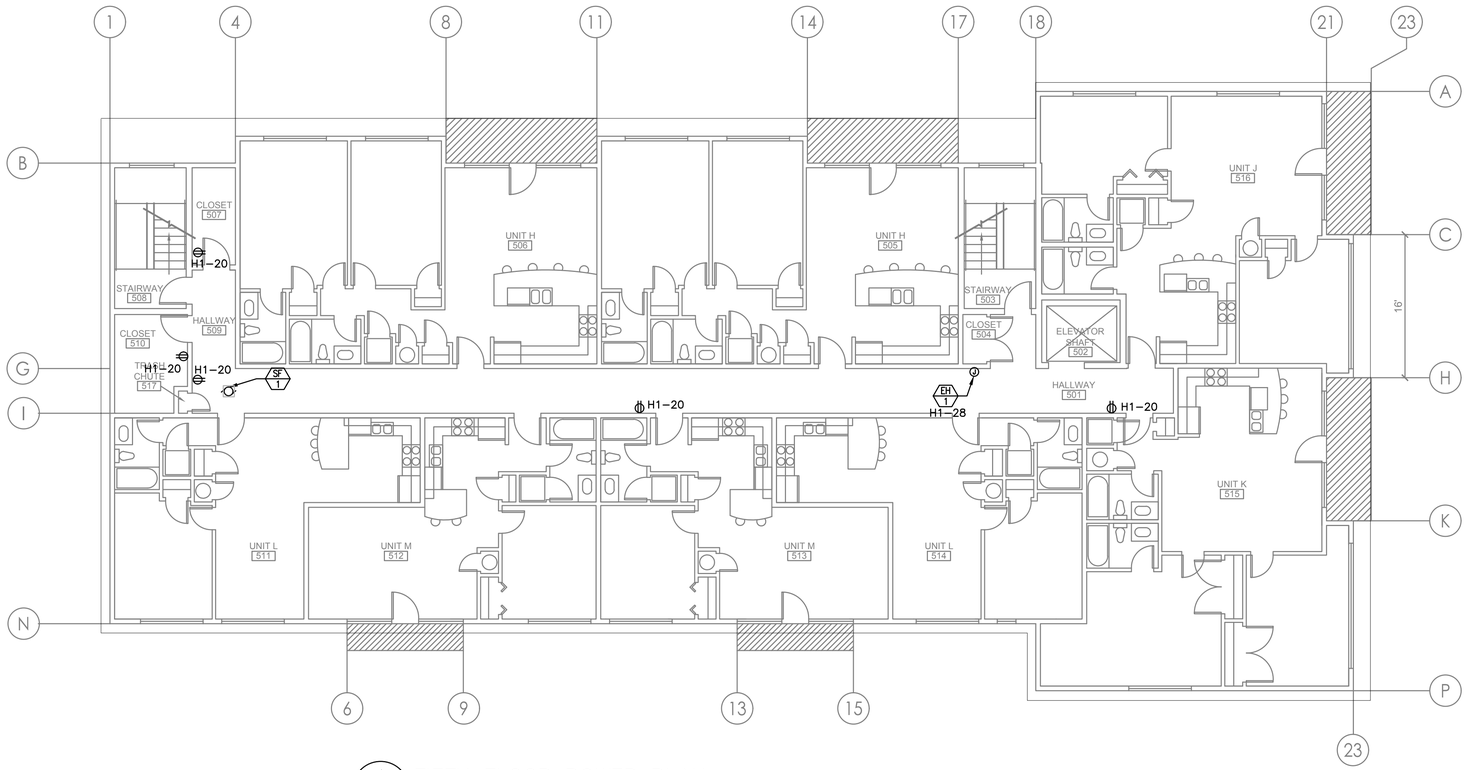

1 / E3.05 FIFTH FLOOR POWER PLAN

SCALE: 1/8" = 1'–0"

REFER TO SHEET E4.1 SERIES SHEETS FOR TYPICAL POWER DEVICE LAYOUT IN APARTMENT UNITS.

GENERAL POWER NOTES:

A. ALL PLANS ARE CONSIDERED DIAGRAMMATICAL. THEREFORE ALL EQUIPMENT SIZES AND DEVICE LOCATIONS ARE APPROXIMATE AND SUBJECT TO FIELD CONDITIONS AND PRODUCT APPROVAL.

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C. GENERAL PURPOSE CONVENIENCE RECEPTACLES LOCATED ON THE BUILDING EXTERIOR, OTHER THAN INTERIOR COURT YARD, SHALL BE EQUIPPED WITH A LOCKING, WEATHER PROOF COVER.

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E. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE CIVIL ENGINEER, TO VERIFY EXACT POWER REQUIREMENTS, LOCATIONS AND CONNECTION TYPE FOR ANY EQUIPMENT REQUIRING ELECTRICAL POWER, PRIOR TO ROUGH IN.

F. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL AND PLUMBING CONTRACTORS, TO VERIFY EXACT POWER REQUIREMENTS, LOCATIONS AND CONNECTION TYPE FOR ANY EQUIPMENT REQUIRING ELECTRICAL POWER, PRIOR TO ROUGH IN.

G. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LANDSCAPING CONTRACTOR, TO VERIFY EXACT POWER REQUIREMENTS, LOCATIONS AND CONNECTION TYPE FOR ANY EQUIPMENT REQUIRING ELECTRICAL POWER, PRIOR TO ROUGH IN.

H. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LOW VOLTAGE ('T' SERIES) PLANS, INCLUDING FIRE ALARM AND SYSTEMS INSTALLER, AND PROVIDE ROUGH IN AS NEEDED.

I. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS.

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⬡ KEYED NOTES:

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REGISTERED PROFESSIONAL ENGINEER 16,597 OREGON JULY 20, 1993 ROBERT L. CONRELL
EXPIRES 12-31-2021

PROJECT NO: 2068

SHEET TITLE:
FIFTH FLOOR POWER PLAN

SHEET NO.
E3.05

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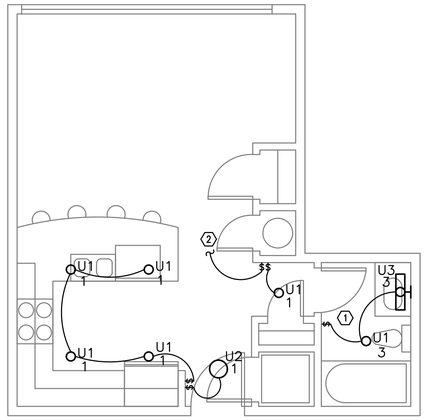
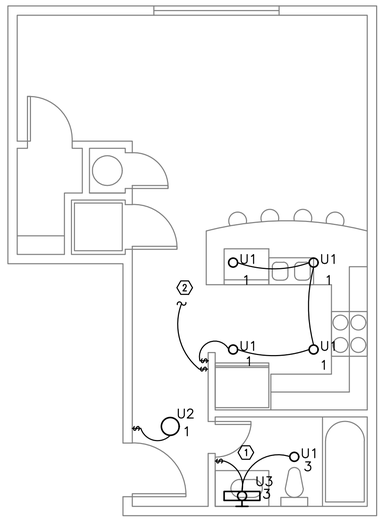


1 E4.01 UNIT TYPE 'A'

SCALE: 1/4" = 1'-0"

(392sf)



2 E4.01 UNIT TYPE 'B'

SCALE: 1/4" = 1'-0"

(444sf)

GENERAL NOTES:

A. ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL DEVICES AND FIXTURES.

B. REFER TO SHEET E1.13 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

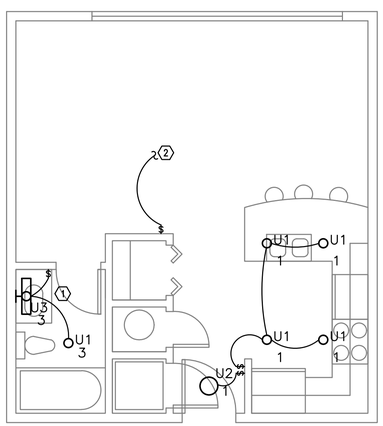
C. ALL LIGHT SWITCHES SHALL BE ROCKER STYLE, SUCH AS LEVITON DECORA, OR APPROVED EQUAL, UNLESS OTHERWISE NOTED.

D. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT FIXTURE LOCATIONS AND MOUNTING HEIGHTS.

E. REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULE.

⬡ KEYED NOTES:

1. REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.22.
2. TO SWITCHED RECEPTACLE IN LIVING ROOM. REFER TO E4.1 SERIES SHEETS FOR LOCATION.



3 E4.01 UNIT TYPE 'C'

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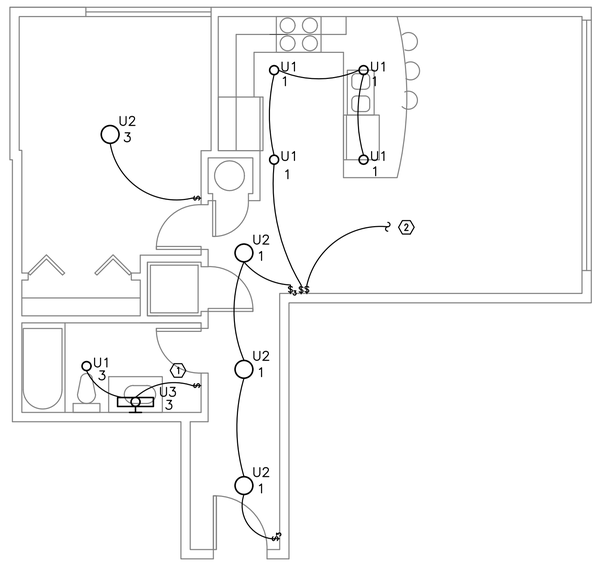

4 E4.01 UNIT TYPE 'D'

SCALE: 1/4" = 1'-0"

(612sf)

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16,597
OREGON
JULY 20, 1993
ROBERT L. CONNELL
EXPIRES 12-31-2021

PROJECT NO: 2068

SHEET TITLE:

TYP. ENLARGED UNITS - LIGHTING PLANS

SHEET NO.

E4.01

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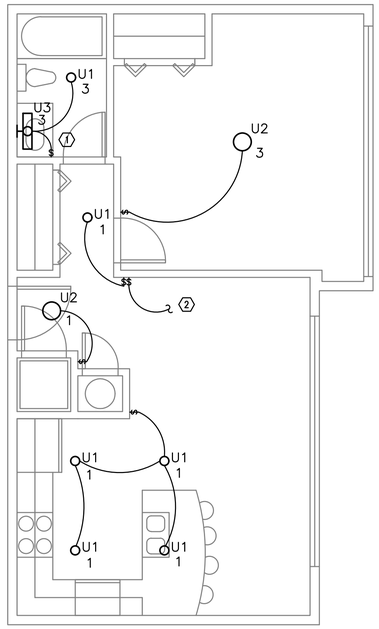

1 E4.02 UNIT TYPE 'E'
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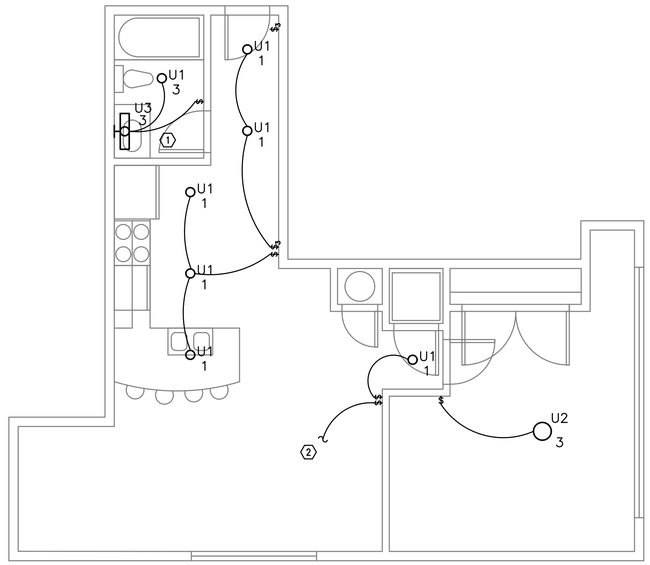


2 E4.02 UNIT TYPE 'F'
SCALE: 1/4" = 1'-0"
(553sf)

GENERAL NOTES:

A. ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL DEVICES AND FIXTURES.

B. REFER TO SHEET E1.13 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

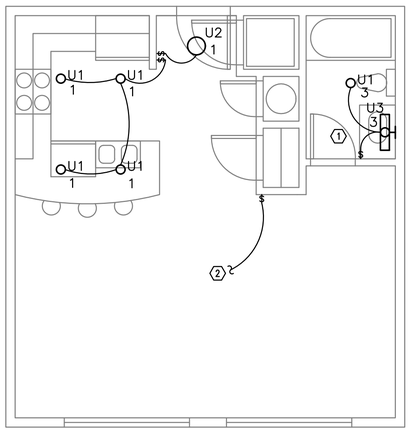
C. ALL LIGHT SWITCHES SHALL BE ROCKER STYLE, SUCH AS LEVITON DECORA, OR APPROVED EQUAL, UNLESS OTHERWISE NOTED.

D. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT FIXTURE LOCATIONS AND MOUNTING HEIGHTS.

E. REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULE.

⬡ KEYED NOTES:

1. REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.22.
2. TO SWITCHED RECEPTACLE IN LIVING ROOM. REFER TO E4.1 SERIES SHEETS FOR LOCATION.



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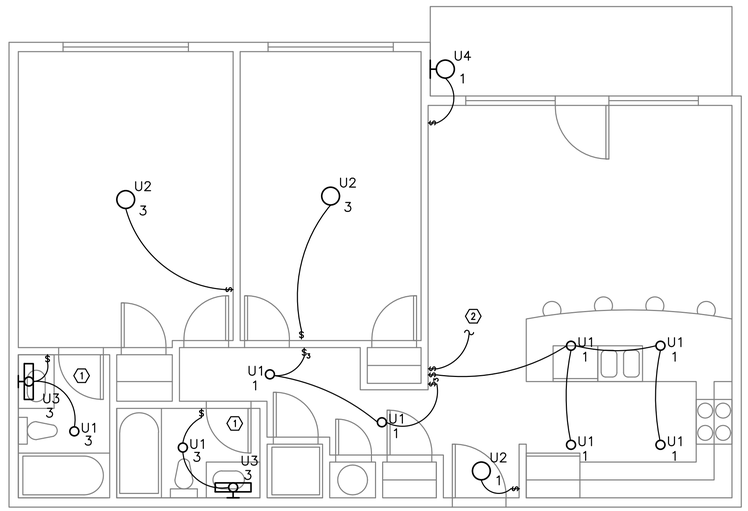

4 E4.02 UNIT TYPE 'H'
SCALE: 1/4" = 1'-0"
(872sf)

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16,597
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JULY 20, 1993
ROBERT L. CONRELL
EXPIRES 12-31-2021

PROJECT NO: 2068

SHEET TITLE:
TYP. ENLARGED UNITS - LIGHTING PLANS

SHEET NO.
E4.02

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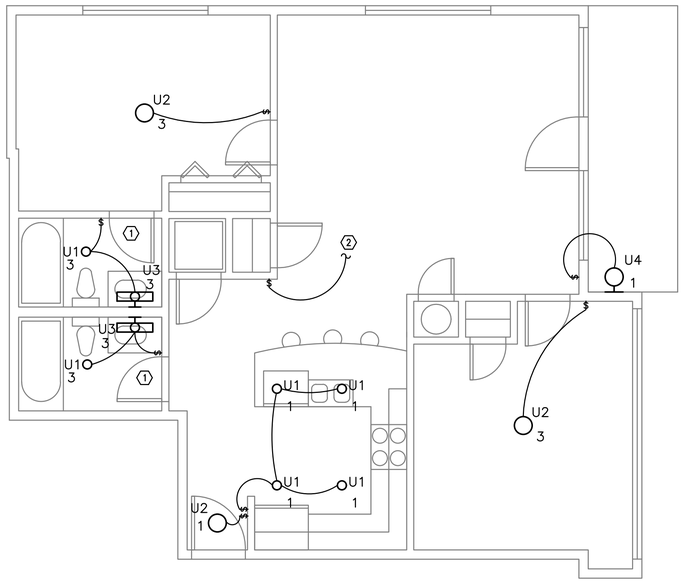

1 E4.03 UNIT TYPE 'J'
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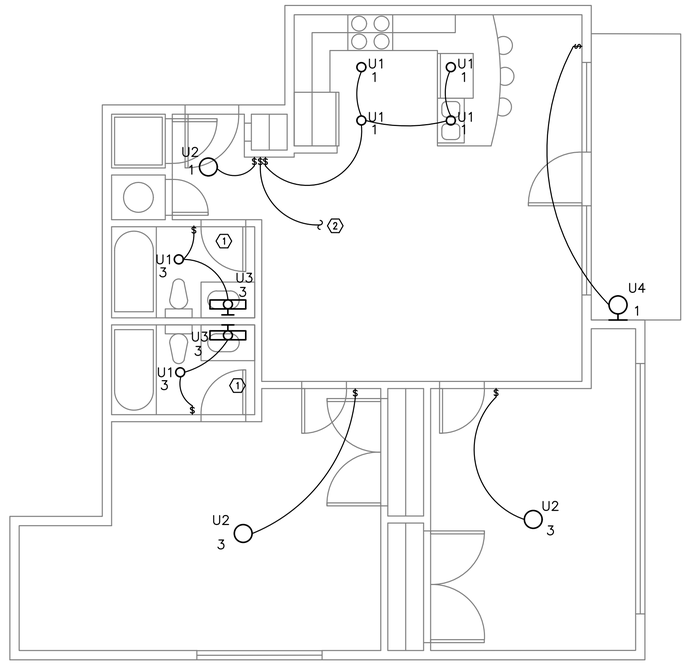


2 E4.03 UNIT TYPE 'K'
SCALE: 1/4" = 1'-0"
(872sf)

GENERAL NOTES:

A. ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL DEVICES AND FIXTURES.

B. REFER TO SHEET E1.13 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

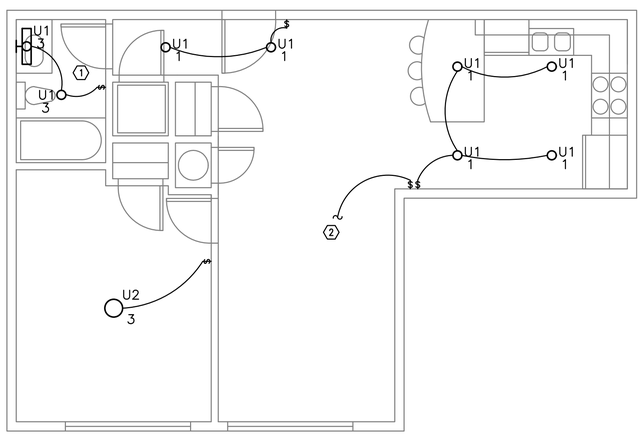
C. ALL LIGHT SWITCHES SHALL BE ROCKER STYLE, SUCH AS LEVITON DECORA, OR APPROVED EQUAL, UNLESS OTHERWISE NOTED.

D. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT FIXTURE LOCATIONS AND MOUNTING HEIGHTS.

E. REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULE.

KEYED NOTES:

1. REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.22.
2. TO SWITCHED RECEPTACLE IN LIVING ROOM. REFER TO E4.1 SERIES SHEETS FOR LOCATION.



3 E4.03 UNIT TYPE 'L'
SCALE: 1/4" = 1'-0"
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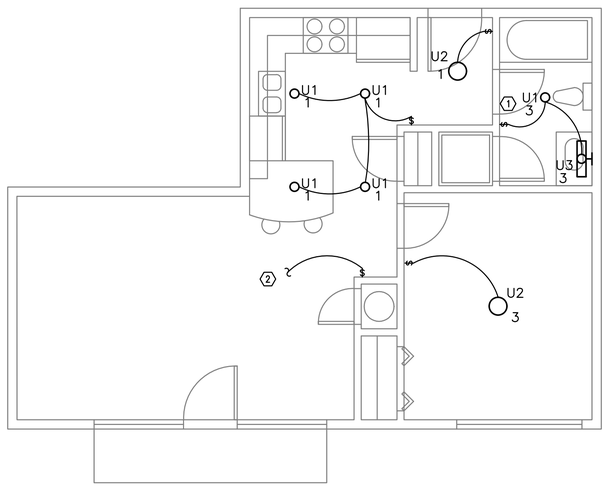

4 E4.03 UNIT TYPE 'M'
SCALE: 1/4" = 1'-0"
(569sf)

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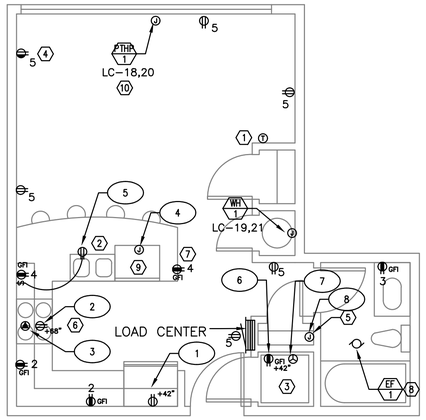

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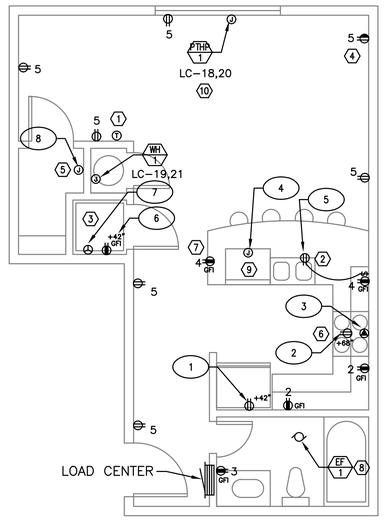

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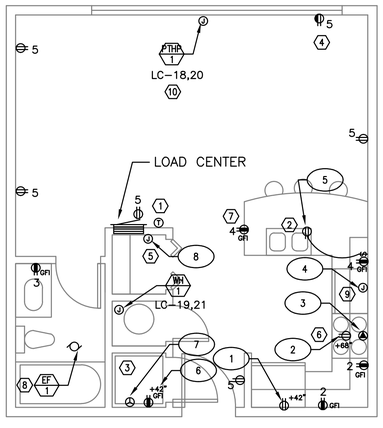
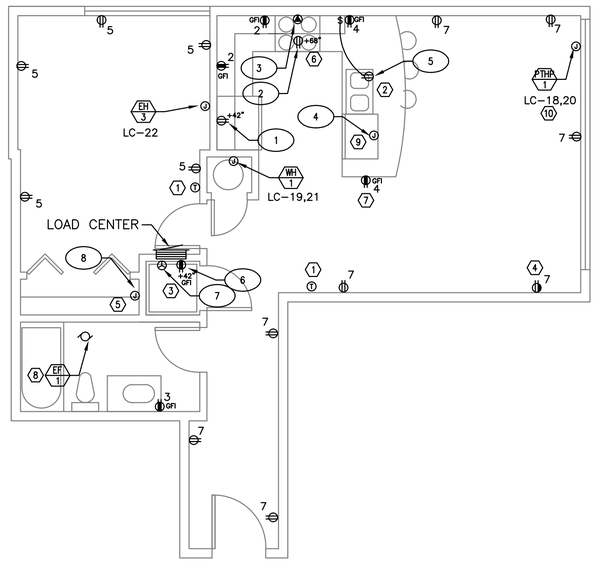


3 E4.11 UNIT TYPE 'C'
SCALE: 1/4" = 1'-0"
(432sf)



4 E4.11 UNIT TYPE 'D'
SCALE: 1/4" = 1'-0"
(612sf)

GENERAL NOTES:

A. ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL DEVICES AND FIXTURES.

B. KITCHEN RECEPTACLES LOCATED IN ISLANDS OR PENINSULAS WHERE THE BACK SPLASH WILL NOT ACCOMMODATE VERTICAL PLACEMENT OR THE DUPLEX RECEPTACLE, THE CONTRACTOR SHALL ROTATE THE DEVICE 90 DEGREES SO THAT THE RECEPTACLE IS INSTALLED HORIZONTALLY.

C. REFER TO DETAILS ON SHEET E1.22 FOR ADDITIONAL INFORMATION REGARDING ADA REACH REQUIREMENTS FOR RECEPTACLE AND SWITCH MOUNTING HEIGHT.

D. STANDARD RECEPTACLE MOUNTING HEIGHT IS 18" A.F.F. UNLESS OTHERWISE SPECIFIED. RECEPTACLES LOCATED BELOW WINDOW SILLS SHALL NOT BE LESS THE 15" A.F.F.

E. REFER TO SHEET E1.13 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

⬡ KEYED NOTES:

1. PROVIDE WIRE CONNECTION FOR THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN. THERMOSTATS TO BE MOUNTED AT 48" AFF MAX. TO HIGHEST OPERABLE PART.
2. PROVIDE ONE 20A, 120V, 1P GFIC DUPLEX RECEPTACLE UNDER KITCHEN SINK FOR DISPOSAL POWER CONNECTION.
3. REFER TO SHEET E1.13 FOR TYPICAL LAUNDRY ALCOVE RECEPTACLE LOCATIONS. COORDINATE INSTALLATION WITH MECHANICAL & PLUMBING CONTRACTOR.
4. PROVIDE ONE 15A SPLIT BUSS SWITCHED RECEPTACLE. REFER TO E4.0x UNIT LIGHTING PLANS FOR SWITCH LOCATION.
5. PROVIDE ONE 15A, RECEPTACLE CIRCUIT FROM TENANT LOAD CENTER FOR TELECOM SMART PANEL. COORDINATE WORK WITH SERVICE PROVIDER FOR EXACT LOCATION AND FINAL CONNECTION.
6. FOR RANGE HOODS/MICROWAVES PROVIDED WITH A CORD & PLUG SET, PROVIDE A 20A DUPLEX RECEPTACLE LOCATED INSIDE THE OVERHEAD CABINET. HARDWIRED APPLIANCES MAY BE CIRCUITED VIA J-BOX MOUNTED FLUSH OR RECESSED INTO THE WALL DIRECTLY BEHIND THE APPLIANCE.
7. MOUNT DEVICES HORIZONTALLY, JUST UNDER THE EDGE OF THE COUNTER TOP.
8. COORDINATE EXHAUST FAN LOCATION WITH MECHANICAL EQUIPMENT INSTALLER TO AVOID CONFLICT WITH THE CEILING LIGHT.
9. VERIFY POWER CONNECTION TYPE OF THE DISHWASHER TO BE INSTALLED PRIOR TO ROUGH IN AND PROVIDE THE CORRECT DEVICE.
10. VERIFY POWER CONNECTION TYPE FOR PTHP UNIT. IF THE UNIT IS HARDWIRED, COORDINATE J-BOX LOCATION WITH THE HVAC INSTALLER PRIOR TO ROUGH IN. IF THE UNIT IS EQUIPPED WITH A CORD SET INSTALL A 20A 1P DUPLEX RECEPTACLE BELOW THE UNIT, NEAR THE BASE OF THE WALL SUCH THAT THE CORD SET IS CONCEALED AS MUCH AS POSSIBLE. COORDINATE INSTALLATION WITH THE MECHANICAL INSTALLER.

⬭ APPLIANCE CIRCUITS

1.	REFRIGERATOR	LC-6
2.	MICRO/HOOD	LC-8
3.	RANGE	LC-10,12
4.	DISHWASHER	LC-14
5.	DISPOSAL	LC-16
6.	WASHER	LC-13
7.	DRYER	LC-15,17
8.	SMART PNL (OPT)	LC-23

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VERSION LOG:

DATE: 01.26.2021
DRAWN BY: DMT
CHECKED BY: RLC

REGISTERED PROFESSIONAL ENGINEER 16,597 OREGON JULY 20, 1993 ROBERT L. CONNELL
EXPIRES 12-31-2021

PROJECT NO: 2068
SHEET TITLE:
TYP. ENLARGED UNITS - POWER PLANS

SHEET NO:
E4.11

MFIA INC. Consulting Engineers
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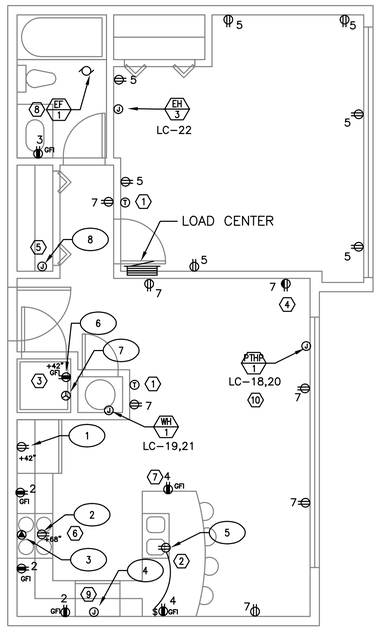
CONTACT: DENISE TAYLOR



1 E4.12 UNIT TYPE 'E'
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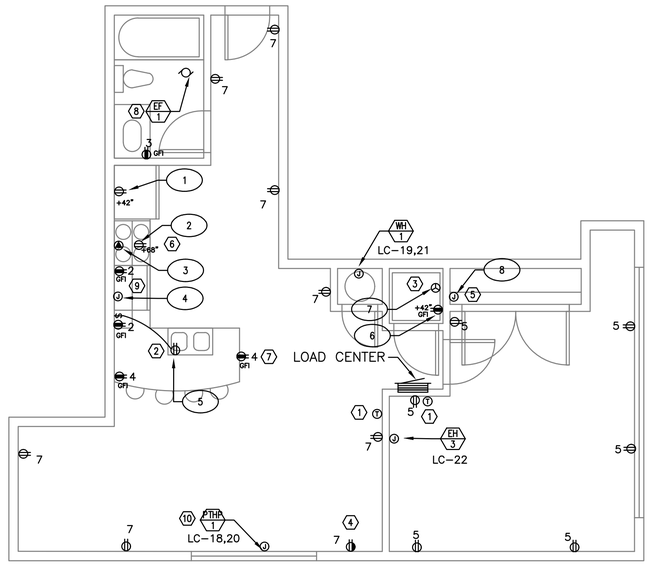
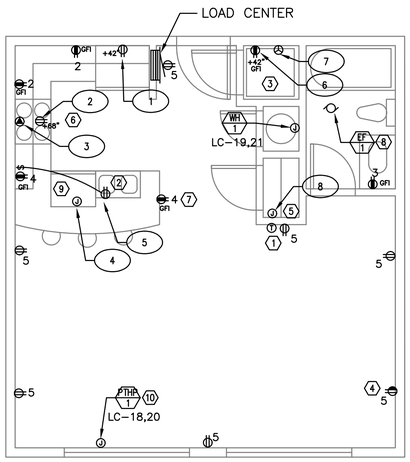
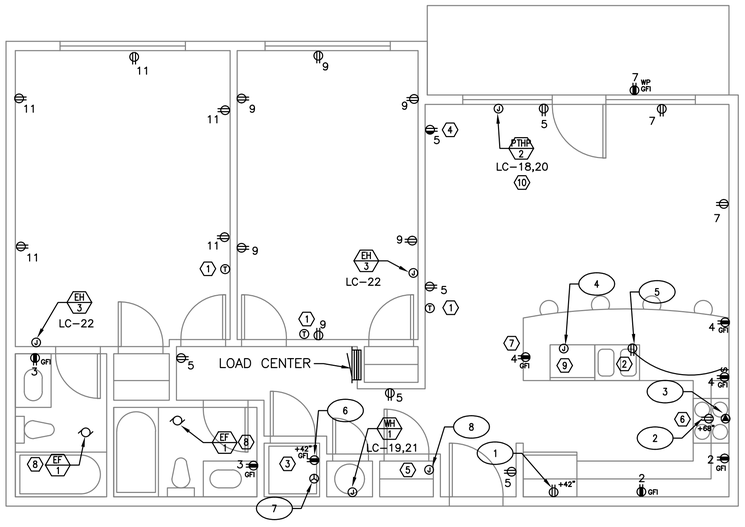
(532sf)



2 E4.12 UNIT TYPE 'F'
SCALE: 1/4" = 1'–0"
(553sf)



3 E4.12 UNIT TYPE 'G'
SCALE: 1/4" = 1'–0"
(461sf)



4 E4.12 UNIT TYPE 'H'
SCALE: 1/4" = 1'–0"
(872sf)

GENERAL NOTES:

A. ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL DEVICES AND FIXTURES.

B. KITCHEN RECEPTACLES LOCATED IN ISLANDS OR PENINSULAS WHERE THE BACK SPLASH WILL NOT ACCOMMODATE VERTICAL PLACEMENT OR THE DUPLEX RECEPTACLE, THE CONTRACTOR SHALL ROTATE THE DEVICE 90 DEGREES SO THAT THE RECEPTACLE IS INSTALLED HORIZONTALLY.

C. REFER TO DETAILS ON SHEET E1.22 FOR ADDITIONAL INFORMATION REGARDING ADA REACH REQUIREMENTS FOR RECEPTACLE AND SWITCH MOUNTING HEIGHT.

D. STANDARD RECEPTACLE MOUNTING HEIGHT IS 18" A.F.F. UNLESS OTHERWISE SPECIFIED. RECEPTACLES LOCATED BELOW WINDOW SILLS SHALL NOT BE LESS THE 15" A.F.F.

E. REFER TO SHEET E1.13 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

KEYED NOTES:

1. PROVIDE WIRE CONNECTION FOR THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN. THERMOSTATS TO BE MOUNTED AT 48" AFF MAX. TO HIGHEST OPERABLE PART.
2. PROVIDE ONE 20A, 120V, 1P GFIC DUPLEX RECEPTACLE UNDER KITCHEN SINK FOR DISPOSAL POWER CONNECTION.
3. REFER TO SHEET E1.13 FOR TYPICAL LAUNDRY ALCOVE RECEPTACLE LOCATIONS. COORDINATE INSTALLATION WITH MECHANICAL & PLUMBING CONTRACTOR.
4. PROVIDE ONE 15A SPLIT BUSS SWITCHED RECEPTACLE. REFER TO E4.0x UNIT LIGHTING PLANS FOR SWITCH LOCATION.
5. PROVIDE ONE 15A, RECEPTACLE CIRCUIT FROM TENANT LOAD CENTER FOR TELECOM SMART PANEL. COORDINATE WORK WITH SERVICE PROVIDER FOR EXACT LOCATION AND FINAL CONNECTION.
6. FOR RANGE HOODS/MICROWAVES PROVIDED WITH A CORD & PLUG SET, PROVIDE A 20A DUPLEX RECEPTACLE LOCATED INSIDE THE OVERHEAD CABINET. HARDWIRED APPLIANCES MAY BE CIRCUITED VIA J–BOX MOUNTED FLUSH OR RECESSED INTO THE WALL DIRECTLY BEHIND THE APPLIANCE.
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APPLIANCE CIRCUITS

1.	REFRIGERATOR	LC–6
2.	MICRO/HOOD	LC–8
3.	RANGE	LC–10,12
4.	DISHWASHER	LC–14
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PROJECT NO: 2068

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TYP. ENLARGED UNITS - POWER PLANS

SHEET NO:
E4.12

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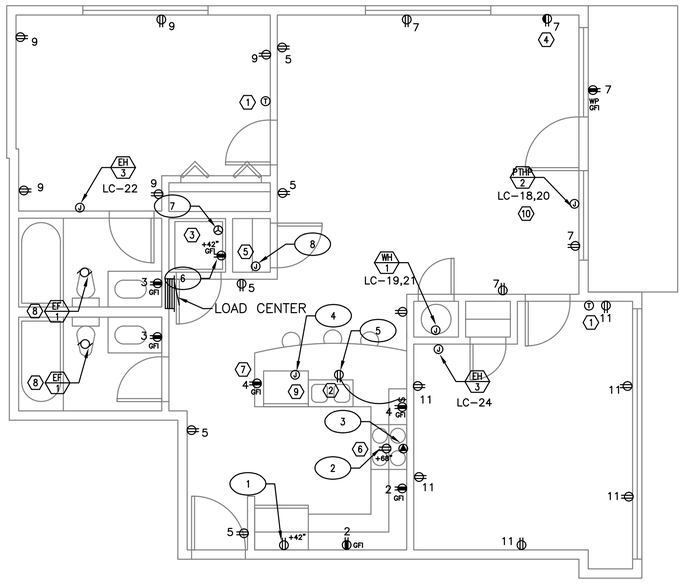

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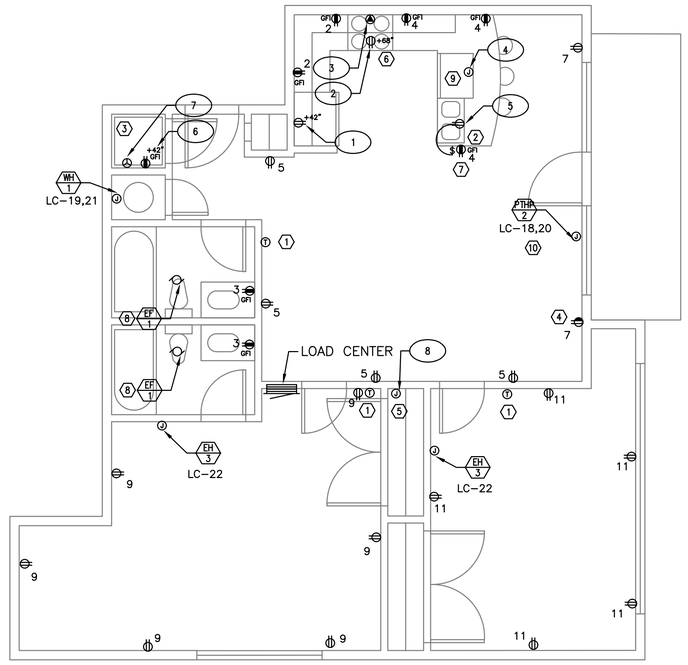
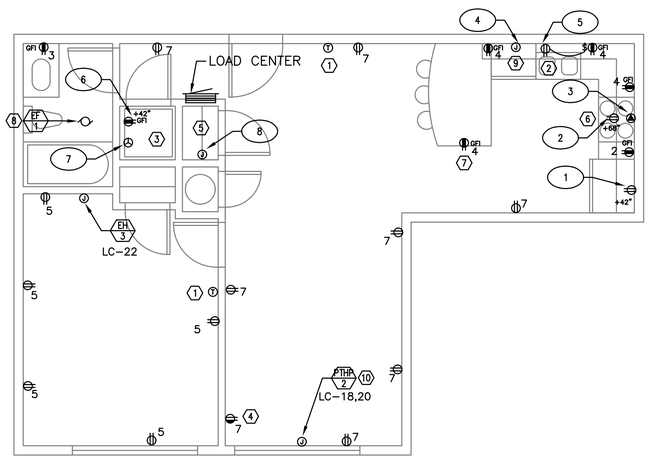
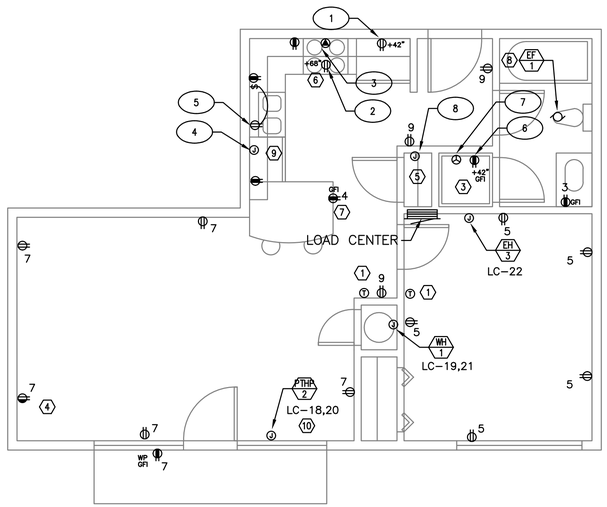
(842sf)



2 E4.13 UNIT TYPE 'K'
SCALE: 1/4" = 1'-0"
(872sf)



3 E4.13 UNIT TYPE 'L'
SCALE: 1/4" = 1'-0"
(582sf)



4 E4.13 UNIT TYPE 'M'
SCALE: 1/4" = 1'-0"
(569sf)

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