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

- 2A-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.

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

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)
- PANEL 'A' (MCB) — ELECTRICAL DISTRIBUTION PANELBOARD (MCB)
- SUB-FEED CIRCUIT BREAKER
- 200/3 — CIRCUIT BREAKER (TRIP RATING & POLES AS INDICATED ON PLAN)
- 200A 3P / 200A RK1 — MAIN SWITCH (RATING & POLES AS INDICATED ON PLAN)
- 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 RK1 — 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.
- D2 / 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.

GENERAL 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. REFER TO INTERIOR DECORATOR AND/OR ARCHITECTURAL DRAWINGS FOR EXACT LOCATION(S) AND ELEVATIONS FOR FIXTURES & DEVICES.

I. 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.

GENERAL POWER NOTES:

A. ELECTRICAL PANELS LOCATED IN PUBLIC OR UNSECURED SPACES SHALL BE PROVIDED WITH A LOCKABLE DOOR PANEL.

B. SERVICE ENTRANCE AND METERING EQUIPMENT SHOWN TO APPROXIMATE SCALE, BASED ON INDUSTRY STANDARD PRODUCTS. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT WILL FIT THE SPACE AND MAINTAIN REQUIRED WORKING CLEARANCES.

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

D. ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH PGE ELECTRICAL SERVICE REQUIREMENTS.

E. THERE SHALL BE NO SURFACE MOUNTED DEVICES 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.

F. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.

G. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS 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.

GENERAL LIGHTING NOTES:

A. REFER TO SHEET E1.21 & E1.22 FOR LIGHT FIXTURE SCHEDULES.

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

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

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

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

F. CORRIDOR LIGHTING TO BE CONSTANT "ON" AND PROVIDED WITH LOCAL MANUAL OVERRIDE SWITCHES FOR MAINTENANCE. REFER TO SHEET E1.22 FOR SWITCH WIRING DIAGRAMS.

G. REFER TO SHEET E1.23 FOR LIGHTING CONTROL DIAGRAMS AND DESIGN INTENT. VERIFY LIGHTING CONTROLLABILITY WITH ARCHITECT AND/OR OWNER'S REPRESENTATIVE TO DETERMINE EXACT NEEDS FOR ALL PUBLIC/COMMON AREAS SUCH AS LOBBIES, OFFICES, LOUNGE AREAS, ETC., PRIOR TO THE START OF ANY WORK.

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

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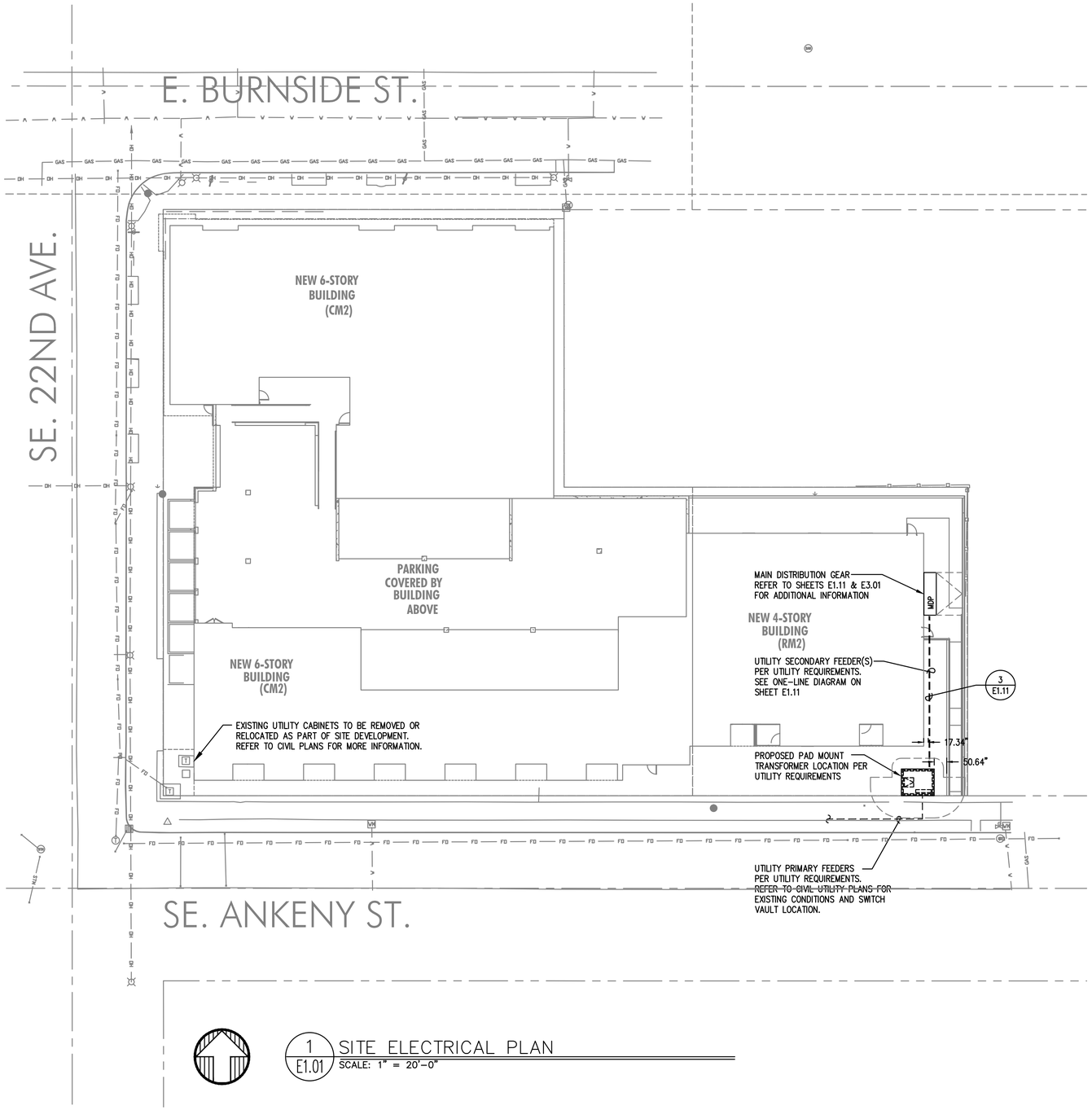
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SHEET:

E1.00

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1 / E1.01 SITE ELECTRICAL PLAN
SCALE: 1" = 20'-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.

CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES BEFORE TRENCHING.

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.

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PROJECT # 2017-110
DATE: 10/16/2020

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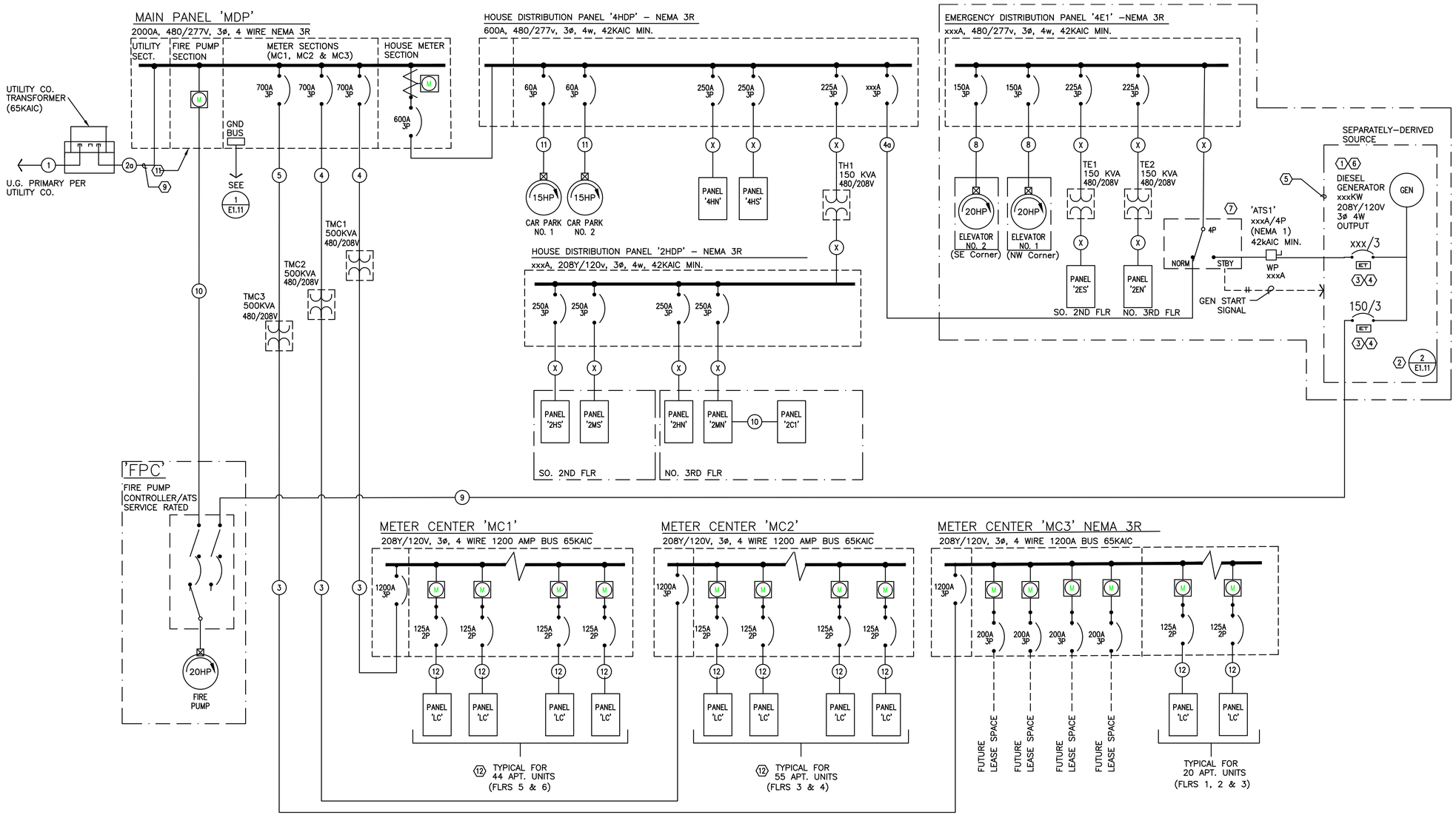
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1 E1.10 ELECTRICAL ONE-LINE DIAGRAM

480/277v, 3ph, 4w

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.

F. SEE SHEET E1.11 FOR FEEDER SCHEDULE.

⬡ ONE-LINE NOTES:

1. ESTIMATED GENERATOR STARTING LOAD IS BASED ON THE ELEVATOR & FIRE PUMP 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.

11. PROVIDE SEPARATE CABINET FOR FIRE PUMP TAP PER NEC 695.

12. THREE BEDROOM APARTMENT UNITS SHALL BE PROVIDED WITH 150A LOAD CENTERS. REFER TO DWELLING UNIT LOAD SUMMARIES ON SHEET E1.13.

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

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Estimated Loads – 480V Service 4/12/2021	Burnside Apartments Main distribution Center "MDP"						
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
House Loads (13000sf @ 15w/sf)				195,000			
Elevator 1 (20hp)						22,500	
Elevator 2 (20hp)						22,500	
Fire Pump (20hp)						22,500	22,500
Meter Center (MC1) Xfmr T1 500kva				500,000			
Meter Center (MC2) Xfmr T2 500kva				500,000			
Meter Center (MC3) Xfmr T3 300kva				300,000			
Car Park No. 1						17,500	
Car Park No. 2						17,500	
SUBTOTAL	0	0	0	1,495,000	0	102,500	22,500
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	0	0	0	1,495,000	0	102,500	5,625

CONN LOAD:	1620	KVA

VOLTS:	480	3ph
TOTAL CALC:	1603	KVA
CALC AMPS:	1928	AMPS

Estimated Loads	Burnside Apartments Meter Center "MC3" Combined Residential & Retail						
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
Residential Units				125,000			
Retail Meters (4000sf @30w/sf)				125,000			
SUBTOTAL	0	0	0	250,000	0	0	0
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	0	0	0	250,000	0	0	0

CONN LOAD:	250	KVA

VOLTS:	208	3ph
TOTAL CALC:	250	KVA
CALC AMPS:	694	AMPS

GENERATOR
L-SUM

FEEDER SCHEDULE (COPPER)

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

FEEDER SCHEDULE (ALUMINUM)

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

* PARALLEL FEEDERS PER UTILITY PROVIDER'S DIRECTION.

FEEDER SCHEDULE 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.

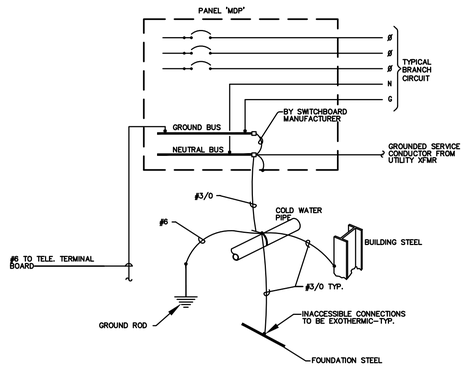
MECHANICAL EQUIPMENT SCHEDULE

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
EF-3	EXHAUST FAN NO.3	1/10HP	120	1		1/2"	#12	#12	M1-20
EF-4	EXHAUST FAN NO. 4	57W	120	1		1/2"	#12	#12	M2-13
EF-5	EXHAUST FAN NO.5	1/2HP	120	1		1/2"	#12	#12	M2-13
EF-6	EXHAUST FAN NO.6		120	1		1/2"	#12	#12	M2-15
EF-7	EXHAUST FAN NO.7	1/4HP	120	1		1/2"	#12	#12	M2-19
EF-8	EXHAUST FAN NO.8	3/4HP	120	1		1/2"	#12	#12	M2-17
EF-9	EXHAUST FAN NO.9	1/2HP	120	1		1/2"	#12	#12	M2-19
EH-1	ELECTRIC WALL HEATER NO.1	1.5 KW	120	1		1/2"	#12	#12	SEE UNIT PLANS
EH-2	ELECTRIC WALL HEATER NO.2	500W	120	1		1/2"	#12	#12	SEE E3.01
EH-3	ELECTRIC WALL HEATER NO.3	3.0 KW	208	1		1/2"	#12	#12	SEE E3.01
EH-4	ELECTRIC WALL HEATER NO.4	3.0 KW	208	1		1/2"	#12	#12	H1-26
EH-5	ELECTRIC WALL HEATER NO.5	3.0 KW	208	1		1/2"	#12	#12	M1-14,16,18
FC-1	FAN COIL UNIT NO.1	11.3KW	208	3		1/2"	#12	#12	M1-8,10,12
HP-1	HEAT PUMP NO.1		208	3	31.8MCA	3/4"	#8	#10	M2-14,16,18
IAC-1	MINI SPLIT SYST NO.1 (INDOOR)								
OAC-1	MINI SPLIT SYST NO.1 (OUTDOOR)		208	1	28.0 MCA	1/2"	#10	#10	M2-2,4
IAC-2	MINI SPLIT SYST NO.2 (INDOOR)								
OAC-2	MINI SPLIT SYST NO.2 (OUTDOOR)		208	1	28.0 MCA	1/2'	#10	#10	M2-6,8
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
RTU-1	AIR HANDLING UNIT NO.1		208	3	30.0MCA	3/4'	#6	#10	M2-1,3,5
RTU-2	AIR HANDLING UNIT NO.2		208	3	24.0 MCA	1/2'	#10	#10	M2-7,9,11
PTHP-1	THRU-WALL HEAT/AC NO.1	3.5KW	208	1	10.6 MCA	1/2"	#12	#12	REFER TO UNIT PLANS
PTHP-2	THRU-WALL HEAT/AC NO.2	3.5KW	208	1	12.1 MCA	1/2"	#10	#10	REFER TO UNIT PLANS
SP-1	SUMP PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	E1-16
RP-1	RECIRC PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	M1-15
RP-2	RECIRC PUMP NO.2	1/2HP	120	1		1/2"	#12	#12	M1-32
BP-1	BOOSTER PUMP NO.1	(2) 5HP	208	3	28.8 EA.	1"	#4	#10	M1-31,33,35
WH-1	WATER HEATER NO.1 (GAS)		120	1		1/2"	#12	#12	M1-13 (PC)
WH-2	WATER HEATER NO.2 (GAS)		120	1		1/2"	#12	#12	M1-13 (PC)
WH-3	WATER HEATER NO.3 (GAS)		120	1		1/2"	#12	#12	M1-30 (PC)
WH-4	WATER HEATER NO.4 (GAS)		120	1		1/2"	#12	#12	M1-30 (PC)

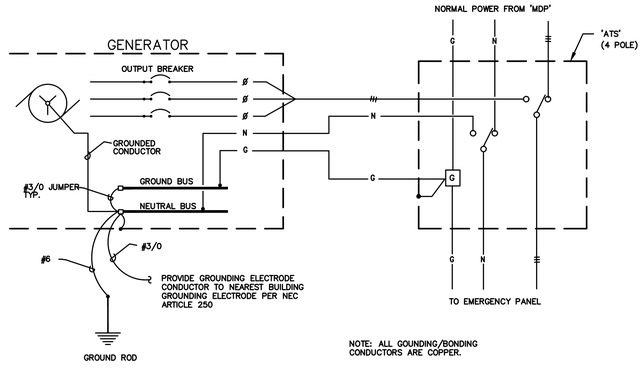
GENERAL EQUIPMENT NOTES:

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.



1 / E1.11 GROUNDING/BONDING DIAGRAM
480/277V, 3ø, 4 WIRE



2 / E1.11 GENERATOR – ELECTRICAL GROUNDING/BONDING DETAIL
NO SCALE

STUDIO 3 ARCHITECTURE INCORPORATED
275 COURT ST. NE
SALEM, OR 97301-3442
P: 503.390.6500
www.studio3architecture.com

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PROJECT # 2017-110
DATE: 05/28/2021
PERMIT CHECK SET
REVISIONS

BURNSIDE MIXED USE

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panel	mounting	location	connected load amps
4E1	SURFACE		0

voltage	phase	bus & main		calculated load amps
277/480V	3		MLO	0

C	service	va	a/p	no.	a b c	no.	a/p	va	service	C
6	ELEVATOR #1		150/3	1	*	2	150/3		ELEVATOR #2	6
6	*		*	3	*	4	*		*	6
6	*		*	5	*	6	*		*	6
5	TRANSFORMER ET1 (PNL 2ES)		225/3	7	*	8	225/3		TRANSFORMER ET2 (PNL 2EN)	5
5	*		*	9	*	10	*		*	5
5	*		*	11	*	12	*		*	5
			20/1	13	*	14	20/1			
			20/1	15	*	16	20/1			
			20/1	17	*	18	20/1			
			20/1	19	*	20	20/1			
			20/1	21	*	22	20/1			
			20/1	23	*	24	20/1			
			20/1	25	*	26	20/1			
				27	*	28				
				29	*	30				
				31	*	32				
				33	*	34				
				35	*	36				
				37	*	38				
				39	*	40				
				41	*	42				

		NOTES:	line-line voltage
Phase A	0 VA		
Phase B	0 VA		480
Phase C	0 VA		largest motor (va)
Total Connected	0 VA		0

load code:	ph. A	ph. B	ph. C	total	factor	calculated load (va)
1. LIGHTS=	0	0	0 VA	0	1.25	0
2. RECEPT.=	0	0	0 VA	0	1 + 0.5	0
3. HEATING=	0	0	0 VA	0	1.00	0
4. KITCHEN=	0	0	0 VA	0	1.00	0
5. EQUIP.=	0	0	0 VA	0	1.00	0
6. MOTORS=	0	0	0 VA	0	*	0
7. MISC=	0	0	0 VA	0	1.00	0
(* 125% of the largest motor + 100% of the balance)				TOTAL =		0

MFIA PANEL SCHEDULE

panel	mounting	location	connected load amps
2EN	SURFACE		30

voltage	phase	bus & main		calculated load amps
120/208V	3	250A	MLO	30

C	service	va	a/p	no.	a b c	no.	a/p	va	service	C
1	LIGHTS - BUILDING EXTERIOR		20/1	1	*	2	20/1	500	ELEVATOR #1 PIT LTS & RECEPT	5
1	LIGHTS - STAIR #1		20/1	3	*	4	20/1	1176	SP-1 (ELEV #1 PIT)	6
1	LIGHTS - BSMNT, FLR 1		20/1	5	*	6	20/1	500	FACP REMOTE ANNUNCIATOR	5
1	LIGHTS - FLRS 1,2,3		20/1	7	*	8	20/1	0	SPARE	
1	LIGHTS - FLRS 4,5,6		20/1	9	*	10	20/1	1500	SMOKE DAMPERS - FLRS 3,4	5
5	SMOKE CURTAIN FLR 2,3,4	1500	20/1	11	*	12	20/1	1500	SMOKE DAMPERS - FLRS 5,6)	5
5	SMOKE CURTAIN FLR 5,6	1500	20/1	13	*	14	20/1	500	ELEV #1 SHAFT LTS & RECEPT	5
5	ELEVATOR #1 CAB LIGHTS	500	20/1	15	*	16	20/1		ELEV #1 RELIEF VENT	5
5	ELEVATOR #1 CONTROLLER	1500	20/1	17	*	18	20/1			
			20/1	19	*	20	20/1			
			20/1	21	*	22	20/1			
			20/1	23	*	24	20/1			
			20/1	25	*	26	20/1			
				27	*	28				
				29	*	30				
				31	*	32				
				33	*	34				
				35	*	36				
				37	*	38				
				39	*	40				
				41	*	42				

		NOTES:	line-line voltage
Phase A	2500 VA		
Phase B	3176 VA		208
Phase C	5000 VA		largest motor (va)
Total Connected	10676 VA		0

load code:	ph. A	ph. B	ph. C	total	factor	calculated load (va)
1. LIGHTS=	0	0	0 VA	0	1.25	0
2. RECEPT.=	0	0	0 VA	0	1 + 0.5	0
3. HEATING=	0	0	0 VA	0	1.00	0
4. KITCHEN=	0	0	0 VA	0	1.00	0
5. EQUIP.=	2500	2000	5000 VA	9500	1.00	9500
6. MOTORS=	0	1176	0 VA	1176	*	1176
7. MISC=	0	0	0 VA	0	1.00	0
(* 125% of the largest motor + 100% of the balance)				TOTAL =		10676

MFIA PANEL SCHEDULE

panel	mounting	location	connected load amps
2ES	SURFACE		37

voltage	phase	bus & main		calculated load amps
120/208V	3	250A	MLO	37

C	service	va	a/p	no.	a b c	no.	a/p	va	service	C
1	LIGHTS - BUILDING EXTERIOR		20/1	1	*	2	20/1	500	ELEVATOR #2 PIT LTS & RECEPT	1
1	LIGHTS - STAIR #2		20/1	3	*	4	20/1	1176	SP-2 (ELEV #2 PIT)	6
1	LIGHTS - STAIR #3		20/1	5	*	6	20/1	500	FACP	5
1	LIGHTS - FLRS B,1,2		20/1	7	*	8	20/1	500	GEN REMOTE ANNUNCIATOR	5
1	LIGHTS - FLRS 3,4		20/1	9	*	10	20/1			
5	SMOKE CURTAIN FLR 1,2	1500	20/1	11	*	12	20/1			
5	SMOKE CURTAIN FLR 3,4	1500	20/1	13	*	14	20/1	1500	SMOKE DAMPER - FLR B, 1	5
5	ELEVATOR #2 CAB LIGHTS	500	20/1	15	*	16	20/1	1500	SMOKE DAMPER - FLR 2,3	5
5	ELEVATOR #2 CONTROLLER	1500	20/1	17	*	18	20/1	1500	SMOKE DAMPER - FLR 4,5	5
			20/1	19	*	20	20/1	500	FACP REMOTE ANNUNCIATOR	5
			20/1	21	*	22	20/1		ELEV #2 RELIEF VENT	
			20/1	23	*	24	20/1	500	ELEV #2 SHAFT TOP LTS/PLUG	1
			20/1	25	*	26	20/1			
				27	*	28				
				29	*	30				
				31	*	32				
				33	*	34				
				35	*	36				
				37	*	38				
				39	*	40				
				41	*	42				

		NOTES:	line-line voltage
Phase A	4500 VA		
Phase B	3176 VA		208
Phase C	5500 VA		largest motor (va)
Total Connected	13176 VA		0

load code:	ph. A	ph. B	ph. C	total	factor	calculated load (va)
1. LIGHTS=	500	0	500 VA	1000	1.25	1250
2. RECEPT.=	0	0	0 VA	0	1 + 0.5	0
3. HEATING=	0	0	0 VA	0	1.00	0
4. KITCHEN=	0	0	0 VA	0	1.00	0
5. EQUIP.=	4000	2000	5000 VA	11000	1.00	11000
6. MOTORS=	0	1176	0 VA	1176	*	1176
7. MISC=	0	0	0 VA	0	1.00	0
(* 125% of the largest motor + 100% of the balance)				TOTAL =		13426

panel	mounting	location	connected load amps
4HN	SURFACE		0

voltage	phase	bus & main		calculated load amps
277/480V	3	250A	MLO	0

C	service	va	a/p	no.	a b c	no.	a/p	va	service	C
			20/1	1	*	2	20/1			
			20/1	3	*	4	20/1			
			20/1	5	*	6	20/1			
			20/1	7	*	8	20/1			
			20/1	9	*	10	20/1			
			20/1	11	*	12	20/1			
			20/1	13	*	14	20/1			
			20/1	15	*	16	20/1			
			20/1	17	*	18	20/1			
			20/1	19	*	20	20/1			
			20/1	21	*	22	20/1			
			20/1	23	*	24	20/1			
			20/1	25	*	26	20/1			
				27	*	28				
				29	*	30				
				31	*	32				
				33	*	34				
				35	*	36				
				37	*	38				
				39	*	40				
				41	*	42				

		NOTES:	line-line voltage
Phase A	0 VA		
Phase B	0 VA		480
Phase C	0 VA		largest motor (va)
Total Connected	0 VA		0

load code:	ph. A	ph. B	ph. C	total	factor	calculated load (va)
1. LIGHTS=	0	0	0 VA	0	1.25	0
2. RECEPT.=	0	0	0 VA	0	1 + 0.5	0
3. HEATING=	0	0	0 VA	0	1.00	0
4. KITCHEN=	0	0	0 VA	0	1.00	0
5. EQUIP.=	0	0	0 VA	0	1.00	0
6. MOTORS=	0	0	0 VA	0	*	0
7. MISC=	0	0	0 VA	0	1.00	0
(* 125% of the largest motor + 100% of the balance)				TOTAL =		0

MFIA PANEL SCHEDULE

panel	mounting	location	connected load amps
2HN	SURFACE		69

voltage	phase	bus & main		calculated load amps
120/208V	3	250A	MLO	59

C	service	va	a/p	no.	a b c	no.	a/p	va	service	C
5	PACKAGE LOCKER SYSTEM	1500	20/1	1	*	2	20/1	1080	RECEPT - 1ST FLR LOBBY	2
5	MAIL ROOM CAMERA	500	20/1	3	*	4	20/1	1080	RECEPT - 1ST FLR LOBBY	2
5	BUILDING SIGNS	1500	20/1	5	*	6	20/1	1080	RECEPT - 1ST FLR LOBBY	2
			20/1	7	*	8	20/1	1080	RECEPT - 1ST FLR OFFICE	2
5	DRINK FOUNTAIN (BIKE ROOM)	1500	20/1	9	*	10	20/1	1080	RECEPT - 1ST FLR OFFICE	2
5	CAR PARK CONTROLLER	1500	20/1	11	*	12	20/1	1080	RECEPT - 1ST FLR	2
5	CAR PARK CONTROLLER	1500	20/1	13	*	14	20/1	360	RECEPT - ELEV MACH RM	2
			20/1	15	*	16	20/1	900	RECEPT - CORRIDOR FLR 3	2
			20/1	17	*	18	20/1	900	RECEPT - CORRIDOR FLR 4	2
			20/1	19	*	20	20/1	900	RECEPT - CORRIDOR FLR 5	2
			20/1	21	*	22	20/1	900	RECEPT - CORRIDOR FLR 5	2
			20/1	23	*	24	20/1	900	RECEPT - CORRIDOR FLR 6	2
			20/1	25	*	26	20/1	900	RECEPT - CORRIDOR FLR 6	2
				27	*	28	20/1	1260	RECEPT - ROOF GFCI	2
				29	*	30	20/1			
				31	*	32	20/1			
				33	*	34	20/1			
				35	*	36	20/1			
7	PANEL 2C1		100/3	37	*	38	20/1	1080	RECEPT-TEMP (LEASE A)	2
7	*		*	39	*	40	20/1	1080	RECEPT-TEMP (LEASE B)	2
7	*		*	41	*	42	20/1	1080	RECEPT-TEMP (LEASE C)	2

		NOTES:	line-line voltage
Phase A	8400 VA		
Phase B	8300 VA		208
Phase C	8040 VA		largest motor (va)
Total Connected	24740 VA		0

load code:	ph. A	ph. B	ph. C	total	factor	calculated load (va)
1. LIGHTS=	0	0	0 VA	0	1.25	0
2. RECEPT.=	5400	6300	5040 VA	16740	1 + 0.5	13370
3. HEATING=	0	0	0 VA	0	1.00	0
4. KITCHEN=	0	0	0 VA	0	1.00	0
5. EQUIP.=	3000	2000	3000 VA	8000	1.00	8000
6. MOTORS=	0	0	0 VA	0	*	0
7. MISC=	0	0	0 VA	0	1.00	0
(* 125% of the largest motor + 100% of the balance)				TOTAL =		21370

MFIA PANEL SCHEDULE

panel	mounting	location	connected load amps
2HS	SURFACE		71

voltage	phase	bus & main		calculated load amps
120/208V	3		MLO	61

C	service	va	a/p	no.	a b c	no.	a/p	va	service	C
5	ENTRY ACCESS SYTEM	1500	20/1	1	*	2	20/1	900	RECEPT - BASEMENT	2
5	COMM BOARD	500	20/1	3	*	4	20/1	900	RECEPT - YOGA, RESTRM	2
5	PHONE BOARD	500	20/1	5	*	6	20/1	540	RECEPT- MAINT. RM	2
5	SECURITY SYSTEM	1500	20/1	7	*	8	20/1	540	RECEPT- MAINT. RM	2
5	UNIT ENTRY SYSTEM	1500	20/1	9	*	10	20/1	1500	RECEPT - FITNESS RM	2
	SPARE	0	20/1	11	*	12	20/1	1500	RECEPT - FITNESS RM	2
5	BUILDING SIGNS	1500	20/1	13	*	14	20/1	1500	RECEPT - FITNESS RM	2
2	RECEPT - METER ROOM	360	20/1	15	*	16	20/1	1500	RECEPT - FITNESS RM	2
5	DRINNK FOUNTAIN (FITNESS RM)	1500	20/1	17	*	18	20/1	0	SPARE	
5	DAS		20/1	19	*	20	20/1	1080	RECEPT - GARAGE, BOH,EF-4	2
			20/1	21	*	22	20/1	1080	RECEPT - SE LOBBY, CORRIDOR	2
			20/1	23	*	24	20/1	360	RECEPT - ELEV EQUIP CLOS	2
			20/1	25	*	26	20/1	900	RECEPT - FLR 2 CORRIDOR	2
				27	*	28	20/1	900	RECEPT - FLR 3 CORRIDOR	2
				29	*	30	20/1	900	RECEPT - FLR 3 CORRIDOR	2
				31	*	32	20/1	900	RECEPT - FLR 4 CORRIDOR	2
				33	*	34	20/1	900	RECEPT - FLR 4 CORRIDOR	2
				35	*	36	20/1	900	RECEPT - ROOF GFCI	2
				37	*	38	20/1			
				39	*	40	20/1			
				41	*	42	20/1			

		NOTES:	line-line voltage
Phase A	10320 VA		
Phase B	9140 VA		208
Phase C	6200 VA		largest motor (va)
Total Connected	25660 VA		0

load code:	ph. A	ph. B	ph. C	total	factor	calculated load (va)
1. LIGHTS=	0	0	0 VA	0	1.25	0
2. RECEPT.=	5820	7140	4200 VA	17160	1 + 0.5	13580
3. HEATING=	0	0	0 VA	0	1.00	0
4. KITCHEN=	0	0	0 VA	0	1.00	0
5. EQUIP.=	4500	2000	2000 VA	8500	1.00	8500
6. MOTORS=	0	0	0 VA	0	*	0
7. MISC=	0	0	0 VA	0	1.00	0
(* 125% of the largest motor + 100% of the balance)				TOTAL =		22080

panel	mounting	location	connected load amps
4HS	SURFACE		0

voltage	phase	bus & main		calculated load amps
277/480V	3	250A	MLO	0

C	service	va	a/p	no.	a b c	no.	a/p	va	service	C
			20/1	1	*	2	20/1			
			20/1	3	*	4	20/1			
			20/1	5	*	6	20/1			
			20/1	7	*	8	20/1			
			20/1	9	*	10	20/1			
			20/1	11	*	12	20/1			
			20/1	13	*	14	20/1			
			20/1	15	*	16	20/1			
			20/1	17	*	18	20/1			
			20/1	19	*	20	20/1			
			20/1	21	*	22	20/1			
			20/1	23	*	24	20/1			
			20/1	25	*	26	20/1			
				27	*	28				
				29	*	30				
				31	*	32				
				33	*	34				
				35	*	36				
				37	*	38				
				39	*	40				
				41	*	42				

		NOTES:	line-line voltage
Phase A	0 VA		
Phase B	0 VA		480
Phase C	0 VA		largest motor (va)
Total Connected	0 VA		0

load code:	ph. A	ph. B	ph. C	total	factor	calculated load (va)
1. LIGHTS=	0	0	0 VA	0	1.25	0
2. RECEPT.=	0	0	0 VA	0	1 + 0.5	0
3. HEATING=	0	0	0 VA	0	1.00	0
4. KITCHEN=	0	0	0 VA	0	1.00	0
5. EQUIP.=	0	0	0 VA	0	1.00	0
6. MOTORS=	0	0	0 VA	0	*	0
7. MISC=	0	0	0 VA	0	1.00	0
(* 125% of the largest motor + 100% of the balance)				TOTAL =		0

MFIA PANEL SCHEDULE

panel	mounting	location	connected load amps
2MN	SURFACE		6

voltage	phase	bus & main		calculated load amps
120/208V	3	250A	MLO	6

C	service	va	a/p	no.	a b c	no.	a/p	va	service	C
3	IHP/OHP - x (OFFICE)		20/1	1	*	2	20/1	500	EF-3 EXHAUST FAN (BIKE RM)	6
3	*		20/1	3	*	4	20/1			
6	AUTO DOORS (N. LOBBY)	1500	20/1	5	*	6	20/1			
6	PRKG GARAGE GATE CONTROL		20/1	7	*	8	20/1			
			20/1	9	*	10	20/1			
			20/1	11	*	12	20/1			
			20/1	13	*	14	20/1			
			20/1	15	*	16	20/1			
			20/1	17	*	18	20/1			
			20/1	19	*	20	20/1			
			20/1	21	*	22	20/1			
			20/1	23	*	24	20/1			
			20/1	25	*	26	20/1			
				27	*	28	20/1			
				29	*	30	20/1			
				31	*	32	20/1			
				33	*	34	20/1			
				35	*	36	20/1			
				37	*	38	20/1			
				39	*	40	20/1			
				41	*	42	20/1			

		NOTES:	line-line voltage
Phase A	500 VA		
Phase B	0 VA		208
Phase C	1500 VA		largest motor (va)
Total Connected	2000 VA		0

load code:	ph. A	ph. B	ph. C	total	factor	calculated load (va)
1. LIGHTS=	0	0	0 VA	0	1.25	0
2. RECEPT.=	0	0	0 VA	0	1 + 0.5	0
3. HEATING=	0	0	0 VA	0	1.00	0
4. KITCHEN=	0	0	0 VA	0	1.00	0
5. EQUIP.=	0	0	0 VA	0	1.00	0
6. MOTORS=	500	0	1500 VA	2000	*	2000
7. MISC=	0	0	0 VA	0	1.00	0
(* 125% of the largest motor + 100% of the balance)				TOTAL =		2000

MFIA PANEL SCHEDULE

panel	mounting	location	connected load amps
2MS	SURFACE		25

voltage	phase	bus & main		calculated load amps
120/208V	3		MLO	25

C	service	va	a/p	no.	a b c	no.	a/p	va	service	C
3	EH-2 (BASEMENT)	500	20/1	1	*	2	20/1	500	TRASH COMP #1 CONTROLS	5
3	IHP/OHP-4		20/	3	*	4	20/1	500	TRASH COMP #2 CONTROLS	5
3	*		*	5	*	6	20/1	1500	TRASH ROOM OH DOOR	6
3	EH-2 (1ST FLR STAIR #2)	500	20/1	7	*	8	20/1	1500	AUTO DOOR (SE LOBBY)	6
3	EH-2 (SE ENTRY VESIBULE)	500	20/1	9	*	10	20/2	1500	EH-5 (TRASH ROOM)	3
3	EH-3 (RISER RM)	500	20/1	11	*	12	*	1500	*	3
			20/1	13	*	14	20/		GEF-1 (PRKG GARAGE)	6
			20/1	15	*	16	*		*	6
			20/1	17	*	18	20/1			
			20/1	19	*	20	20/1			
			20/1	21	*	22	20/1			
			20/1	23	*	24	20/1			
			20/1	25	*	26	20/1			
				27	*	28	20/1			
				29	*	30	20/1			
				31	*	32	20/1			
				33	*	34	20/1			
				35	*	36	20/1			
				37	*	38	20/1			
				39	*	40	20/1			
				41	*	42	20/1			

		NOTES:	line-line voltage
Phase A	3000 VA		
Phase B	2500 VA		208
Phase C	3500 VA		largest motor (va)
Total Connected	9000 VA		0

load code:	ph. A	ph. B	ph. C	total	factor	calculated load (va)
1. LIGHTS=	0	0	0 VA	0	1.25	0
2. RECEPT.=	0	0	0 VA	0	1 + 0.5	0
3. HEATING=	1000	2000	2000 VA	5000	1.00	5000
4. KITCHEN=	0	0	0 VA	0	1.00	0
5. EQUIP.=	500	500	0 VA	1000	1.00	1000
6. MOTORS=	1500	0	1500 VA	3000	*	3000
7. MISC=	0	0	0 VA	0	1.00	0
(* 125% of the largest motor + 100% of the balance)				TOTAL =		9000

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PROJECT # 2017-110
DATE: 05/28/2021
PERMIT CHECK SET
REVISIONS

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E1.12

BURNSIDE APARTMENTS
RESIDENTIAL LOAD SUMMARY 'MC1'

UNIT TYPE:	QTY PER FLOOR						TOTAL	AREA (SF)	LTG/RECEPT (3VA / SF)	SM APPL (1500VA X 2)	LAUNDRY (1500VA)	COOKING (Gas Range) (CONNECTED)	MICROWAVE (CONNECTED)	DISHWASHER (CONNECTED)	ELECT DRYER (CONNECTED)	WATER HEATER (CONNECTED)	DISPOSAL (CONNECTED)	MOTORS (CONNECTED)	LARGEST OF: A/C HEATING (CONNECTED)
	Lvl 1	Lvl 2	Lvl 3	Lvl 4	Lvl 5	Lvl 6													
1 Bedroom					18	17	35	600	1800	3000	1500	8500	1500	1200	5400	0	900	0	3500
2 Bedroom					4	3	7	1000	3000	3000	1500	8500	1500	1200	5400	0	900	0	5000
3 Bedroom					1	1	2	1400	4200	3000	1500	8500	1500	1200	5400	0	900	0	6000
Townhouse							0	1100	3300	3000	1500	8500	1500	1200	5400	0	900	0	5000
TOTALS:	0	0	0	0	23	21	44	30800	92400	132000	66000	374000	66000	52800	237600	0	39600	0	169500

VOLTS: 208 3ph
TOTAL CONNECTED: 1230 KVA
DEMAND FACTOR: 0.27 Based on Total Number of Residential Units = 43-45 (See N.E.C. Article: 220.84)
TOTAL CALCULATED: 332 KVA
CALCULATED AMPS: 922 AMPS

NOTE:

BURNSIDE APARTMENTS
RESIDENTIAL LOAD SUMMARY 'MC2'

UNIT TYPE:	QTY PER FLOOR						TOTAL	AREA (SF)	LTG/RECEPT (3VA / SF)	SM APPL (1500VA X 2)	LAUNDRY (1500VA)	COOKING (Gas Range) (CONNECTED)	MICROWAVE (CONNECTED)	DISHWASHER (CONNECTED)	ELECT DRYER (CONNECTED)	WATER HEATER (CONNECTED)	DISPOSAL (CONNECTED)	MOTORS (CONNECTED)	LARGEST OF: A/C HEATING (CONNECTED)
	Lvl 1	Lvl 2	Lvl 3	Lvl 4	Lvl 5	Lvl 6													
1 Bedroom			21	22			43	600	1800	3000	1500	8500	1500	1200	5400	0	900	0	3500
2 Bedroom			4	6			10	1000	3000	3000	1500	8500	1500	1200	5400	0	900	0	5000
3 Bedroom			1	1			2	1400	4200	3000	1500	8500	1500	1200	5400	0	900	0	6000
Townhouse							0	1100	3300	3000	1500	8500	1500	1200	5400	0	900	0	5000
TOTALS:	0	0	26	29	0	0	55	38600	115800	165000	82500	467500	82500	66000	297000	0	49500	0	212500

VOLTS: 208 3ph
TOTAL CONNECTED: 1538 KVA
DEMAND FACTOR: 0.25 Based on Total Number of Residential Units = 51-55 (See N.E.C. Article: 220.84)
TOTAL CALCULATED: 385 KVA
CALCULATED AMPS: 1068 AMPS

NOTE:

BURNSIDE APARTMENTS
RESIDENTIAL LOAD SUMMARY 'MC3'

UNIT TYPE:	QTY PER FLOOR						TOTAL	AREA (SF)	LTG/RECEPT (3VA / SF)	SM APPL (1500VA X 2)	LAUNDRY (1500VA)	COOKING (Gas Range) (CONNECTED)	MICROWAVE (CONNECTED)	DISHWASHER (CONNECTED)	ELECT DRYER (CONNECTED)	WATER HEATER (CONNECTED)	DISPOSAL (CONNECTED)	MOTORS (CONNECTED)	LARGEST OF: A/C HEATING (CONNECTED)
	Lvl 1	Lvl 2	Lvl 3	Lvl 4	Lvl 5	Lvl 6													
1 Bedroom	4	4	1	0	0	0	9	600	1800	3000	1500	8500	1500	1200	5400	0	900	0	3500
2 Bedroom	1	2	2	0	0	0	5	1000	3000	3000	1500	8500	1500	1200	5400	0	900	0	5000
3 Bedroom	0	0	0	0	0	0	0	1400	4200	3000	1500	8500	1500	1200	5400	0	900	0	6000
Townhouse (Loft)	6	0	0	0	0	0	6	1100	3300	3000	1500	8500	1500	1200	5400	0	900	0	5000
TOTALS:	11	6	3	0	0	0	20	17000	51000	60000	30000	170000	30000	24000	108000	0	18000	0	86500

VOLTS: 208 3ph
TOTAL CONNECTED: 578 KVA
DEMAND FACTOR: 0.38 Based on Total Number of Residential Units = 18-20 (See N.E.C. Article: 220.84)
TOTAL CALCULATED: 219 KVA
CALCULATED AMPS: 609 AMPS

NOTE:

DWELLING UNIT LOAD CALCULATION

Project: Burnside Mixed Use

Unit Type: 1Bedroom

Area: 665 square feet(average)

Minimum Size Feeder (NEC 220.40):		
General lighting load at 3 VA / SF	1,995	VA
Small Appliance load (2 ckts at 1500VA each)	3,000	VA
Laundry Load (1 ckt at 1500VA)	1,500	VA
Range (GAS)	8,500	VA
Other Cooking Appliance Load (Microwave Oven)	1,500	VA
Dishwasher Load	1,200	VA
Electric Dryer Load	5,400	VA
Electric Water Heater Load	0	VA
Disposal load	900	VA
Other motor loads	0	VA
Total "General Loads"	23,995	VA
First 10 kVA of "general loads" at 100%	10,000	VA
Remainder of "general loads" at 40%	5,598	VA
Net "general load"	15,598	VA
Largest of: VA of electric space heating (less than 4) at 65%	0	VA
-or- VA of electric space heating (4 or more) at 40%	0	VA
-or- 5000 VA of air conditioning/cooling/heat pumps at 100%	5,000	VA
TOTAL LOAD	20,598	VA

For 120/208-volt, 3-wire, single-phase service or feeder,
20,598 VA / 208 volts = 99 Amps

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

MFIA CIRCUIT DIRECTORY 13-Oct-20

Loadcenter Name: LC-1BR (TYPICAL) — mounting: RECESSED — location:
voltage: 208/120 — phase: 1 — bus & main: 100A MLO (SCCR: 22K)

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

DWELLING UNIT LOAD CALCULATION

Project: Burnside Mixed Use

Unit Type: 2Bedroom

Area: 985 square feet(average)

Minimum Size Feeder (NEC 220.40):		
General lighting load at 3 VA / SF	2,955	VA
Small Appliance load (2 ckts at 1500VA each)	3,000	VA
Laundry Load (1 ckt at 1500VA)	1,500	VA
Range (GAS)	[illegible]	VA
Other Cooking Appliance Load (Microwave [illegible])	[illegible]	VA
Dishwasher Load	[illegible]	VA
Electric Dryer Load	5,400	VA
Electric Water Heater Load	0	VA
Disposal load	900	VA
Other motor loads	0	VA
Total "General Loads"	24,955	VA
First [illegible] loads" at 100%	10,000	VA
Remainder of "general loads" at 40%	5,982	VA
Net "general load"	15,982	VA
Largest of: VA of electric space heating (less than 4) at 65%	0	VA
-or- VA of electric space heating (4 or more) at 40%	0	VA
-or- VA of air conditioning/cooling/heat pumps at 100%	5,500	VA
TOTAL LOAD	21,482	VA

For 120/208-volt, 4-wire, single-phase service or feeder,
[illegible] VA / 208 volts = 103 Amps

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

MFIA CIRCUIT DIRECTORY 22-Jun-20

Loadcenter Name: LC-2BR (TYPICAL) — mounting: RECESSED — location:
voltage: 208/120 — phase: 1 — bus & main: 100A MLO (SCCR: 22K)

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

DWELLING UNIT LOAD CALCULATION

Project: Burnside Mixed Use

Unit Type: 3 Bedroom

Area: 1,400 square feet(average)

Minimum Size Feeder (NEC 220.40):		
General lighting load at 3 VA / SF	4,200	VA
Small Appliance load (2 ckts at 1500VA each)	3,000	VA
Laundry Load (1 ckt at 1500VA)	1,500	VA
Range (GAS)	8,500	VA
Other Cooking Appliance Load (Microwave Oven)	1,500	VA
Dishwasher Load	1,200	VA
Electric Dryer Load	5,400	VA
Electric Water Heater Load	0	VA
Disposal load	900	VA
Other motor loads	0	VA
Total "General Loads"	28,200	VA
First 10 kVA of "general loads" at 100%	10,000	VA
Remainder of "general loads" at 40%	6,480	VA
Net "general load"	16,480	VA
Largest of: VA of electric space heating (less than 4) at 65%	0	VA
-or- VA of electric space heating (4 or more) at 40%	0	VA
-or- 11000 VA of air conditioning/cooling/heat pumps at 100%	11,000	VA
TOTAL LOAD	27,480	VA

For 120/208-volt, 4-wire, single-phase service or feeder,
27,480 VA / 208 volts = 132 Amps

Therefore, this dwelling unit shall be permitted to be served by a 150 amp service.

MFIA CIRCUIT DIRECTORY 12-Apr-21

Loadcenter Name: LC-3BR (TYPICAL) — mounting: RECESSED — location:
voltage: 208/120 — phase: 1 — bus & main: 150A MLO (SCCR: 22K)

service	o/p	no.	L1	L2	no.	o/p	service
LIGHTS-KITCHEN/LIVING	20/1(A)	1	*		2	20/1(A)	APPLIANCE CIRCUIT
LTS & RECEPT - BATH	20/1	3		*	4	20/1(A)	APPLIANCE CIRCUIT
RECEPT - LIVING	20/1(A)	5	*		6	20/1	REFRIGERATOR
RECEPT - LIVING	20/1(A)	7		*	8	20/1	MICRO/HOOD
LTS & RECEPT - BEDROOM	20/1(A)	9	*		10	20/1	RANGE (GAS)
LTS & RECEPT - BEDROOM	20/1(A)	11		*	12	20/1	SPARE
WASHER	20/1(G)	13	*		14	20/1	DISHWASHER
DRYER	40/2	15		*	16	20/1	DISPOSAL
*	*	17	*		18	50/2	HEAT
DRYER BOOSTER (OPT)	20/1	19		*	20	*	*
WATER METER (OPT)	20/1	21	*		22	20/2	HEAT
SMART PANEL	20/1	23		*	24	*	*
BLANK	-----	25	*		26	20/2	HEAT
BLANK	-----	27		*	28	*	*
BLANK	-----	29	*		30	20/2	HEAT
BLANK	-----	31		*	32	*	*

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.

PRELIMINARY

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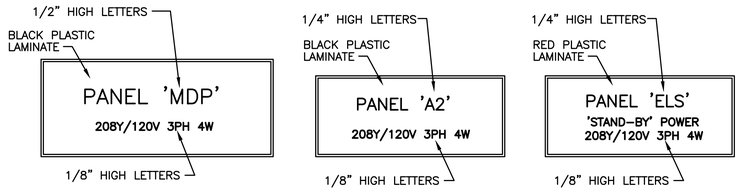
BURNSIDE MIXED USE

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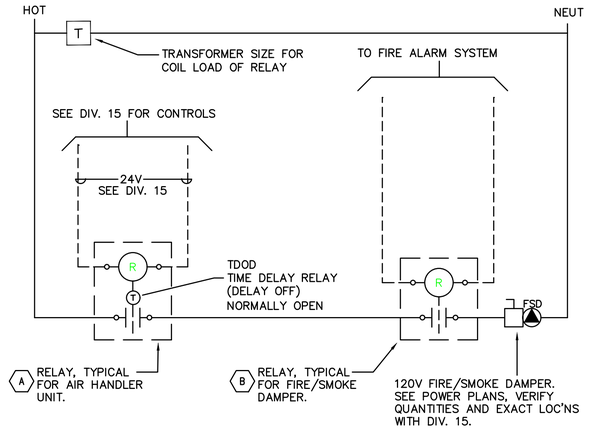
MAIN DISTRIB. PANEL LABELING

PANELBOARD LABELING

EMERGENCY POWER PANELBOARD LABELING

1 E1.14 SWITCHBOARD/PANEL LABELING DETAIL
NO SCALE

NOTE: ALL LETTERS ARE ENGRAVED WHITE



4 E1.14 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 REQUIRED 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 REQUIRED BY FIRE ALARM SYSTEM. MOUNT RELAY IN NEMA 1 ENCLOSURE ADJACENT TO FIRE/SMOKE DAMPER.

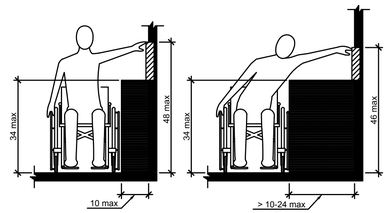


Figure 308.3.2
Obstructed High Side Reach

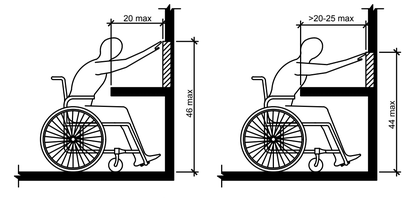


Figure 308.2.2
Obstructed High Forward Reach

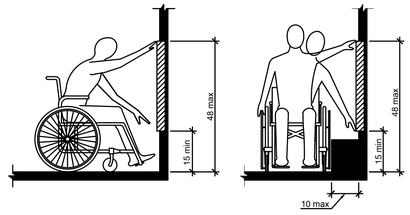


Figure 308.2.1
Unobstructed Forward Reach

Figure 308.3.1
Unobstructed Side Reach

7 E1.14 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.

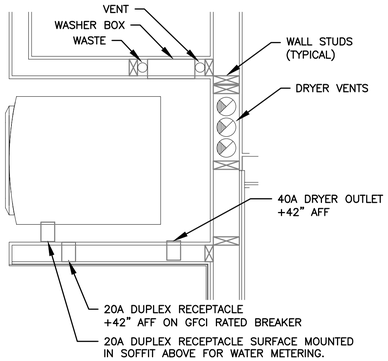
308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor or ground space shall extend beneath the element for a distance not less thank the required reach depth over the obstruction. The high forward reach shall be 48" maximum where the reach depth is 20" maximum.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



NOTES:

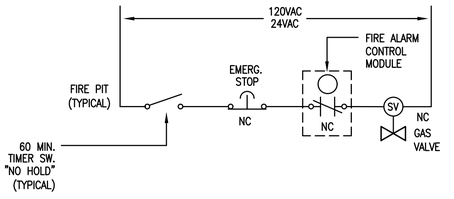
1. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH IN, TO ENSURE THAT ELECTRICAL DEVICES ARE NOT INSTALLED WHERE THEY WILL CREATE CONFLICT.

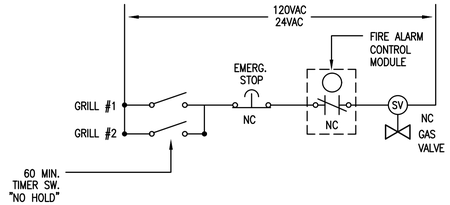
2. PREFERRED INSTALLATION SHALL HAVE THE ELECTRICAL DEVICES ON A WALL OPPOSITE THE WORK OF ANY OTHER TRADE.

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

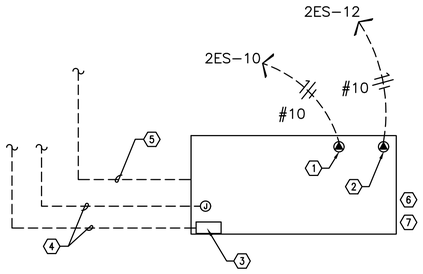
4. FIELD COORDINATE WITH ALL TRADES PRIOR TO ROUGH IN.

2 E1.14 TYPICAL WASHER/DRYER ALCOVE
NO SCALE





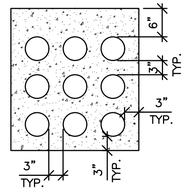
3 E1.14 GAS APPLIANCE EMERGENCY SHUT-OFF DIAGRAM
SCALE: NONE



5 E1.14 GENERATOR CIRCUITING DETAIL
NO SCALE

NOTES:

1. 120V GENERATOR BLOCK HEATER. SEE PANEL 2ES.
2. 120V GENERATOR BATTERY CHARGER. SEE PANEL 2S.
3. GENERATOR OUTPUT BREAKER AND CONTROL SECTION. SEE PANEL 4E1.
4. POWER AND CONTROL TO TRANSFER SWITCH AND REMOTE ANNUNCIATOR. SEE ONE-LINE DIAGRAM ON SHEET E1.10.
5. TO AUTOMATIC TRANSFER SWITCH. SEE E1.10.
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.



1. CONCRETE ENCASED CONDUITS FOR SECONDARY FEEDERS SHALL BE PER THE UTILITY PROVIDER'S REQUIREMENTS.

2. CONDUITS TO BE SPACED 3" APART (SKIN-TO-SKIN), WITH 6" OF CONCRETE ABOVE AND 3" OF CONCRETE AT SIDES AND BOTTOM.

3. CONSULT WITH STRUCTURAL ENGINEER FOR ADDITIONAL INFORMATION.

6 E1.14 CONCRETE ENCASED CONDUITS - SECTION
NO SCALE

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DATE: 05/28/2021
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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 3500K 3000LM/80CRI 23W	LITHONIA (OR APROVED OTHER)	FEML48 SERIES	TYPE :4' ENCLOSED INDUSTRIAL MOUNTING :SURFACE HOUSING :POLYCARBONATE LENS/REFL :CLEAR POLYCARBONATE VOLTAGE :MVOLT BALLAST :LED DRIVER	WALL MOUNT AT +7'-0" AFF IN ROOF TERRACE MECH. ROOM. ELEVATOR PIT & TOP OF SHAFT
B1 〈2〉	LED 3000K 2152LM/80CRI 18.7W	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
B2	LED 3000K 3000LM/80CRI 20W	LITHONIA (OR APROVED OTHER)	CLXL48 SERIES	TYPE :4' WRAP AROUND MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :WIDE DIFFUSED VOLTAGE :MVOLT BALLAST :LED DRIVER	WIDE DISTRIBUTION STANDARD OUTPUT BIKE ROOM, PACKAGE ROOM
B3	LED 3000K 3000LM/80CRI 28W	LITHONIA (OR APROVED OTHER)	CLXL36 SERIES	TYPE :3' WRAP AROUND MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :WIDE DIFFUSED VOLTAGE :MVOLT BALLAST :LED DRIVER	STANDARD OUTPUT ELEVATOR MACHINE ROOM
B4 〈8〉	LED 3000K/80CRI 500LM/FT 9.4W/FT	NULITE (OR APROVED OTHER)	RP14-B-FF SERIES	TYPE :8FT DIRECT/INDIRECT LINEAR MOUNTING :SUSPENDED HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING)	60% DOWN-40% UP DISTRIBUTION MOUNT AT 10FT AFF TO BOTTOM OF FIXTURE. STANDARD WHITE FINISH BIKE ROOMS BLDG B FITNESS ROOM
C1	LED 3000K 1275LM 12W	USAI LIGHTING (OR APROVED OTHER)	BEVELED B4RD-G1 SERIES	TYPE :4.5" DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :ALUMINUM LENS/REFL :SOLITE VOLTAGE :MVOLT BALLAST :LED DRIVER	 LOBBIES, CORRIDORS
C2	LED 600LM/80CRI 3000K 10W	COOPER LIGHTING (OR APPROVED OTHER)	SMD4R12 SERIES	TYPE :4" DIA. DOWNLIGHT MOUNTING :SURFACE (J-BOX) HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	WHITE TRIM UL LISTED DAMP LOCATION RESTROOMS, DOG WASH
C3	LED 650LM 3000K 10W	ALPHABET LIGHTING (OR APPROVED OTHER)	NU3RD SERIES	TYPE :3" DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :DIFFUSED LENS VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING)	IC RATED --- FINISH APARTMENT ENTRY
C4	LED 3000K/90CRI 330LM/FT 3.2W/FT	TBD (OR APROVED OTHER)	TBD	TYPE :LED COVE LIGHT MOUNTING :SURFACE (IN COVE) HOUSING :ALUMINUM CHANNEL LENS/REFL :ACRYLIC VOLTAGE :24V BALLAST :LED DRIVER (NON-DIMMING)	PROVIDE POWER PACKS AS REQUIRED BY VENDOR. COVE LIGHTING CIRCUITED VIA EMERGENCY POWER SYSTEM. MAX. RUN LENGTH = 30T OR BETTER RESIDENTIAL CORRIDORS
C5	LED 3000K 1775LM 16W	USAI LIGHTING (OR APROVED OTHER)	BEVELED B4RD-G1 SERIES	TYPE :4.5" DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :ALUMINUM LENS/REFL :SOLITE VOLTAGE :MVOLT BALLAST :LED DRIVER	 ELEVATOR LOBBIES
C6	LED 3000K 600LM 8W	JUNO LIGHTING (OR APROVED OTHER)	2LEDDRIVER G2 SERIES	TYPE :2" DIA. ADJUSTABLE DOWNLIGHT MOUNTING :RECESSED HOUSING :ALUMINUM LENS/REFL :NA VOLTAGE :MVOLT BALLAST :LED DRIVER	--- FINISH IC RATED LOBBY
G1	LED 3000K 8000LM 100W	DAYBRITE (OR APROVED OTHER)	FSX-8 SERIES	TYPE :8FT LINEAR STRIP MOUNTING :SURFACE HOUSING :POLYCARBONATE LENS/REFL :FROSTED POLYCARBONATE VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	PROVIDE WITH 50% DIMMING DURING PERIODS OF LOW ACTIVITY GARAGE
G2	LED 3000K 4000LM 52W	DAYBRITE (OR APROVED OTHER)	FSX-4 SERIES	TYPE :4FT LINEAR STRIP MOUNTING :SURFACE HOUSING :POLYCARBONATE LENS/REFL :FROSTED POLYCARBONATE VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	PROVIDE WITH 50% DIMMING DURING PERIODS OF LOW ACTIVITY GARAGE

LIGHTING FIXTURE LIST - DECORATIVE

TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
LF1	LED 1640LM 2700K 36W	RBW LIGHTING (OR APPROVED OTHER)	PD4PC40PC402 SERIES	TYPE :LARGE DECORATIVE PENDANT MOUNTING :SUSPENDED (VERIFY MNTG HT) HOUSING :STEEL LENS/REFL :GLASS VOLTAGE :120V BALLAST :LED DRIVER 0-10 DIMMING	BROWN/GOLD FINISH MAIN LOBBY
LF2	LED 2700K 950LM 10W	IN COMMON WITH (OR APROVED OTHER)	DOUBLE PUCK SERIES	TYPE :MINI PENDANT MOUNTING :SUSPENDED (VERIFY MNTG HT) HOUSING :STEEL LENS/REFL :GLASS VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING)	RED OXIDE FINISH RESTROOMS
LF3	LED 2700K 598LM/FT 5W/FT	ALCON (OR APPROVED OTHER)	12100-R2P SERIES	TYPE :LINEAR PENDANT (DIRECT) MOUNTING :SUSPENDED (VERIFY MNTG HT) HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :120V BALLAST :LED DRIVER	--- FINISH GARAGE ENTRY
LF4	LED 2700K 734LM/FT 5W/FT	ALCON (OR APPROVED OTHER)	12100-R4P SERIES	TYPE :LINEAR PENDANT (DIRECT) MOUNTING :SUSPENDED (VERIFY MNTG HT) HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :120V BALLAST :LED DRIVER (DIMMING)	--- FINISH MAIL ROOM
LF5	LED 3000K 3570LM 42W	KUZCO LIGHTING (OR APROVED OTHER)	FM43522 SERIES	TYPE :21" DIA. CEILING LIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :GLASS VOLTAGE :120V BALLAST :LED DRIVER (0/10 DIMMING)	--- FINISH FITNESS ROOM
LF6	LED 2700K ---LM ---W	TECH LIGHTING (OR APROVED OTHER)	DUOMO 700 SERIES	TYPE :20" DIA. PENDANT MOUNTING :SUSPENDED (VERIFY MNTG HT) HOUSING : LENS/REFL :GLASS VOLTAGE :120V BALLAST :LED DRIVER - DIMMING	--- FINISH CLUBROOM
LF7	LED ---K 480LM 5W	BRENDAN RAVENHILL (OR APROVED OTHER)	GRAIN PENDANT 13 SERIES	TYPE :PENDANT SCONCE MOUNTING :SURFACE-WALL (VERIFY MNTG HT) HOUSING :STEEL LENS/REFL :NA VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING)	--- FINISH CLUBROOM
LF8	LED 3000K ---LM 4W	WAC LIGHTING (OR APROVED OTHER)	WL-LED300 SERIES	TYPE :STEP LIGHT MOUNTING :RECESSED HOUSING :ALUMINUM LENS/REFL :N/A VOLTAGE :120V BALLAST :LED DRIVER	--- FINISH CLUBROOM
LF9	LED 2700K 275LM 5W	ALLIED MAKER (OR APROVED OTHER)	WAL-005	TYPE :SCONCE MOUNTING :SURFACE (VERIFY MNTG HT) HOUSING :STEEL LENS/REFL :GALSS VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING)	--- FINISH ADA COMPLIANT CLUBROOM

LIGHTING FIXTURE LIST - TYPICAL LIVING UNITS

TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
U1 〈5〉	LED 650 LM 3000K 10W	LIGHTOLIER (OR APPROVED OTHER)	S5R SERIES	TYPE :5" DIA. DOWNLIGHT MOUNTING :SURFACE (J-BOX) HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	--- FINISH 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 UNIT DINING
U3	LED 3000K 200LM 5W	WAC LIGHTING (OR APROVED OTHER)	HR-LED90 SERIES	TYPE :UNDER CABINET LIGHT MOUNTING :SURFACE HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :24V BALLAST :LED DRIVER (ELV DIMMING)	--- FINISH UNIT KITCHEN
U4	LED 2400LM 3000K 29W	KUZCO LIGHTING (OR APROVED OTHER)	VL61224 SERIES	TYPE :24" VANITY LIGHT MOUNTING :SURFACE (+6" ABOVE MIRROR) HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :120V BALLAST :LED DRIVER	--- FINISH UNIT BATHROOM
U5 〈6〉	(1) 18W LED 1400LM/90CRI 3000K 35W	FANTIMATION (OR APROVED OTHER)	HUGH 52 SERIES	TYPE :52" CEILING FAN W/ LIGHT KIT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :120V BALLAST :LAMP W/INTEGRAL LED DRIVER	WHITE FINISH PROVIDE BRACING AT CEILING TO SUPPORT A MINIMUM OF 35 LBS. PROVIDE W/ MODEL #WC2WH CONTROL SWITCH UNIT BEDROOM

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 INTERIOR DESIGN PLAN SET FOR ALL FINISHES, MOUNTING HEIGHTS AND OTHER INSTALLATION REQUIREMENTS REGARDING THE "LF" LIGHT FIXTURES LISTED IN THE FIXTURE SCHEDULE ON THIS SHEET.

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

L. BUILDING MOUNTED EXTERIOR WALL SCONCES, TYPE S3b, TO BE CONTROLLED VIA PHOTOCELL AND BE PROVIDED WITH A TIME CLOCK TO REDUCE LIGHT OUTPUT BY 30% DURING LATE NIGHT TO REDUCE REFLECTANCE INTO TENANT LIVING UNITS. 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.

PRELIMINARY

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SHEET:

E1.21

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LIGHTING FIXTURE LIST – SITE & EXTERIOR

TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
S1	LED 3000K 975LM 14W	USAI LIGHTING (OR APROVED OTHER)	BEVELED 1020 SERIES	TYPE :4.5" DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :ALUMINUM LENS/REFL :SOLITE VOLTAGE :MVOLT BALLAST :LED DRIVER	UL LISTED WET LOCATION CUSTOM FINISH TO MATCH METAL SOFFIT BLACK OR BRONZE FINISH PER ARCHITECT MAIN BUILDING ENTRANCES
S2	LED 3000K 650LM 10W	BEGA LIGHTING (OR APROVED OTHER)	66-655 SERIES	TYPE :EXTERIOR SCONCE MOUNTING :SURFACE (+8'-0" AFG) HOUSING :ALUMINUM LENS/REFL :TEMPERED GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER	20 DEGREE BEAM ANGLE. FIXTURE SHALL BE DOWNLIGHT ONLY. FIXTURES LOCATED AT ROOF TERRACE MOUNT AT 7'-0" AFF. BLACK OR BRONZE FINISH PER ARCHITECT BUILDING EXTERIOR, ROOF TERRACE
S3	LED 3000K 2450LM 22W	GARDCO LIGHTING (OR APROVED OTHER)	PWS SERIES	TYPE :EXTERIOR WALL PACK MOUNTING :SURFACE (+8'-0") HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	TYPE III DISTRIBUTION BUILDING SERVICE ENTRANCES

LIGHTING FIXTURE LIST – EXITING

TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
X1	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	
X2	LED (GREEN LETTERS) (3.5W)	LITHONIA (OR APROVED OTHER)	LRE SERIES	TYPE :EXIT SIGN MOUNTING :RECESSED HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	MOUNTED CENTERED ABOVE DOOR UNLESS OTHERWISE NOTED.
X3	LED (GREEN LETTERS) (3.5W)	LITHONIA (OR APROVED OTHER)	WLTE EL SERIES BLACK FINISH	TYPE :EXIT SIGN MOUNTING :UNIVERSAL HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	UL LISTED WET LOCATION
X4	LED (GREEN LETTERS) (3.5W)	EATON (OR APROVED OTHER)	EUX SERIES	TYPE :EXIT SIGN MOUNTING :SURFACE HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	SURFACE MOUNT AT STOREFRONT MULLION

LIGHTING NOTES:

A. REFER TO SHEET E1.21 FOR ADDITIONAL LIGHTING AND KEYED NOTES.

LANDSCAPE LIGHTING:

TYPE	LAMP	VOLTAGE	DESCRIPTION
LT1	LED	12V	LED TAPE & CHANNEL
LT2	LED	120V	RECESSED STEP LIGHT
LT3	LED	120V	WALL MOUNTED SPOT LIGHT
LT4	LED	12V	RAIL MOUNTED LIGHT
LT5	LED	120V	RECESS DOWNLIGHT
LT6	LED	120V	SURFACE MOUNTED PARAPET LIGHT

LANDSCAPE LIGHTING NOTES:

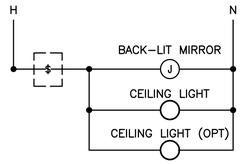
A. ELECTRICAL CONTRACTOR TO PROVIDE ELECTRICAL POWER TO THE TERRACE LIGHTING AS INDICATED. FIXTURES TO BE PURCHASED AND INSTALLED BY THE LANDSCAPER AND THE ELECTRICAL CONTRACTOR SHALL PROVIDE FINAL POWER CONNECTION, UNLESS OTHERWISE NOTED.

B. REFER TO LANDSCAPE PLANS & SPECIFICATIONS FOR EXACT LIGHTING REQUIREMENTS AND MOUNTING HEIGHTS.

C. COORDINATE ALL WORK WITH THE LANDSCAPER PRIOR TO AND DURING CONSTRUCTION.

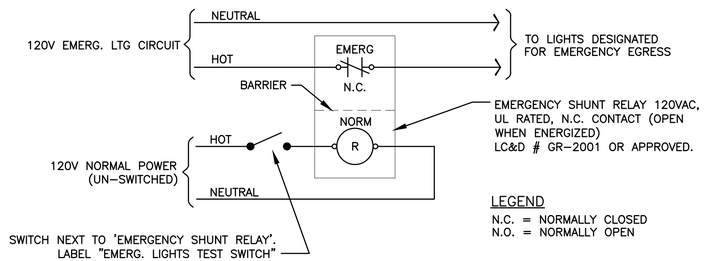
D. ALL TERRACE LIGHTING SHALL BE WET LOCATION LISTED.

E. ALL TERRACE LIGHTING SHALL BE CIRCUITED VIA MECHANICAL TIME CLOCK. REFER TO THE LIGHTING CONTROL PANEL DIAGRAM ON THIS SHEET.

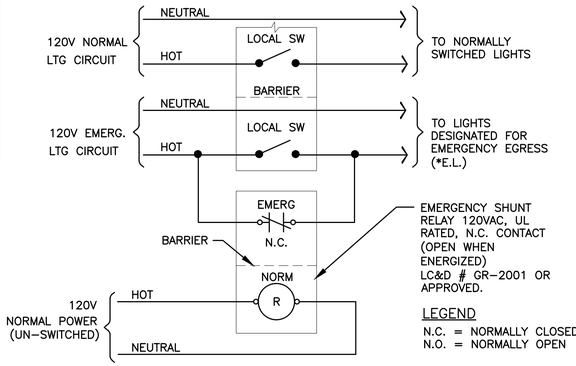


BATHROOM WITH CEILING LIGHT(S)
& BACK-LIT MIRROR

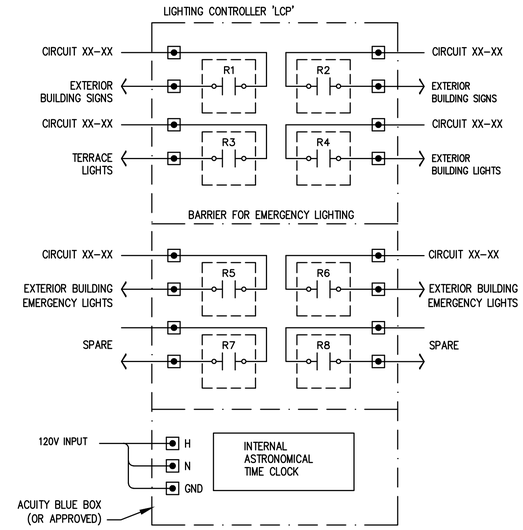
1 / E1.22 BATHROOM SWITCHING DIAGRAMS – TYPICAL
NO SCALE



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



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



EXTERIOR LIGHTING CONTROL
SYSTEM DIAGRAM – LCP

4 / E1.22
NO SCALE

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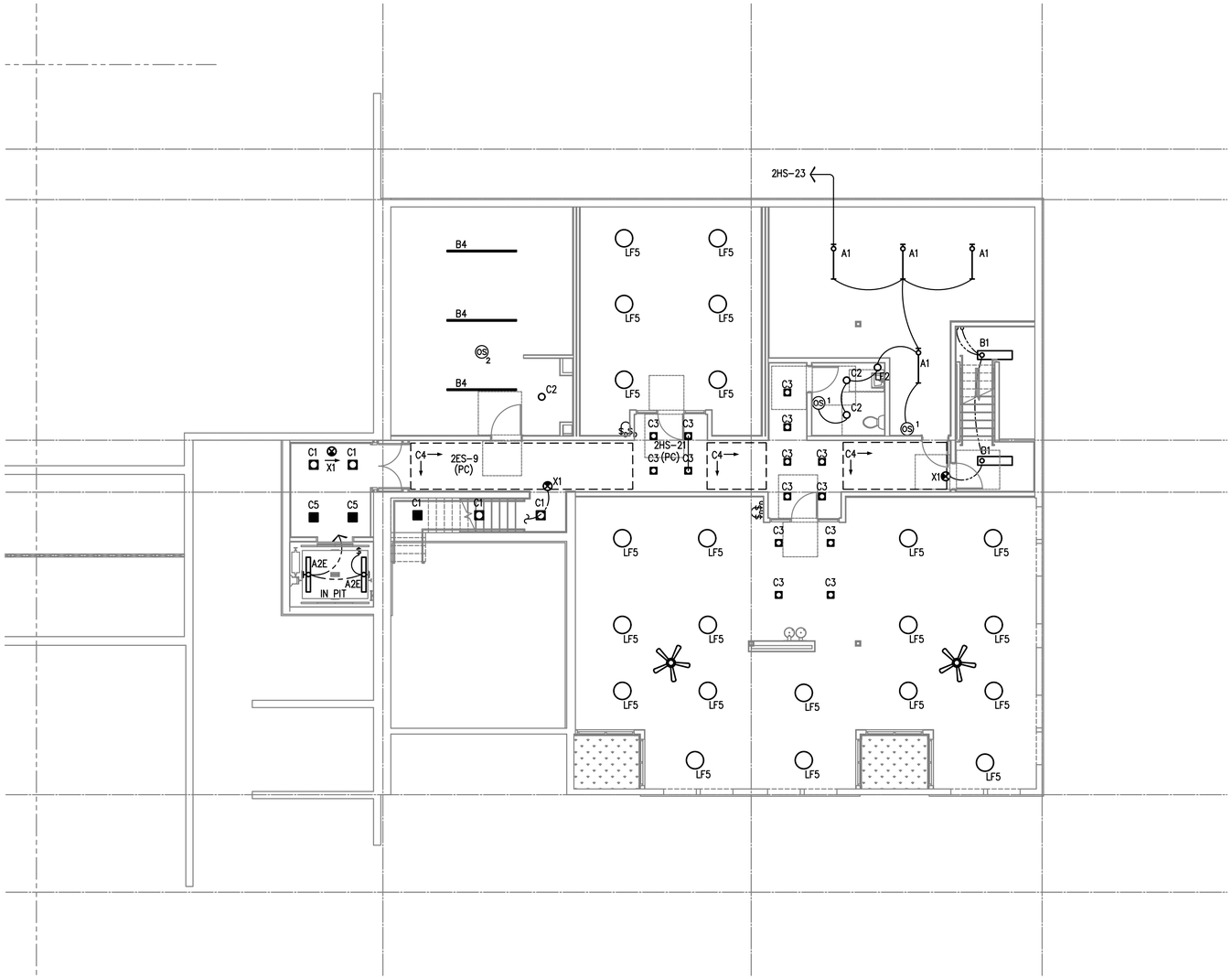
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SHEET:
E1.22

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SE / E2.00 PARTIAL BASEMENT LEVEL POWER PLAN
SCALE: 1/8 = 1'-0"

GENERAL LIGHTING NOTES:

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

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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.

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J. REFER TO SHEET E1.23 FOR LIGHTING CONTROL DIAGRAMS AND DESIGN INTENT. VERIFY LIGHTING CONTROLLABILITY WITH ARCHITECT AND/OR OWNER'S REPRESENTATIVE TO DETERMINE EXACT NEEDS FOR ALL PUBLIC/COMMON AREAS SUCH AS LOBBIES, OFFICES, LOUNGE AREAS, ETC., PRIOR TO THE START OF ANY WORK.

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6. TIE INTO TEMPORARY LIGHTING CIRCUIT AND ENSURE BATTERY BACK UP POWER FOR EGRESS.
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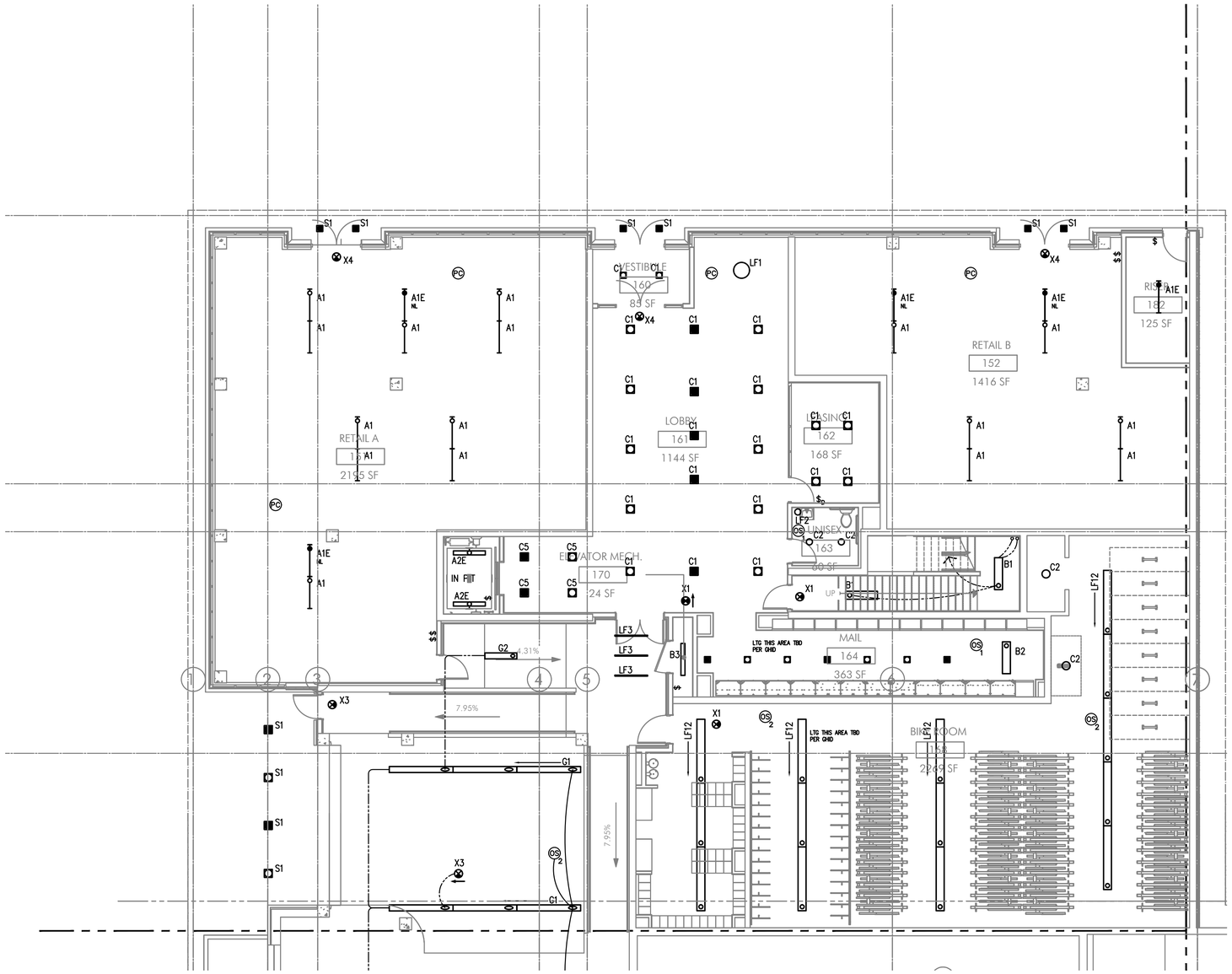
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SHEET:
SE E2.00

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

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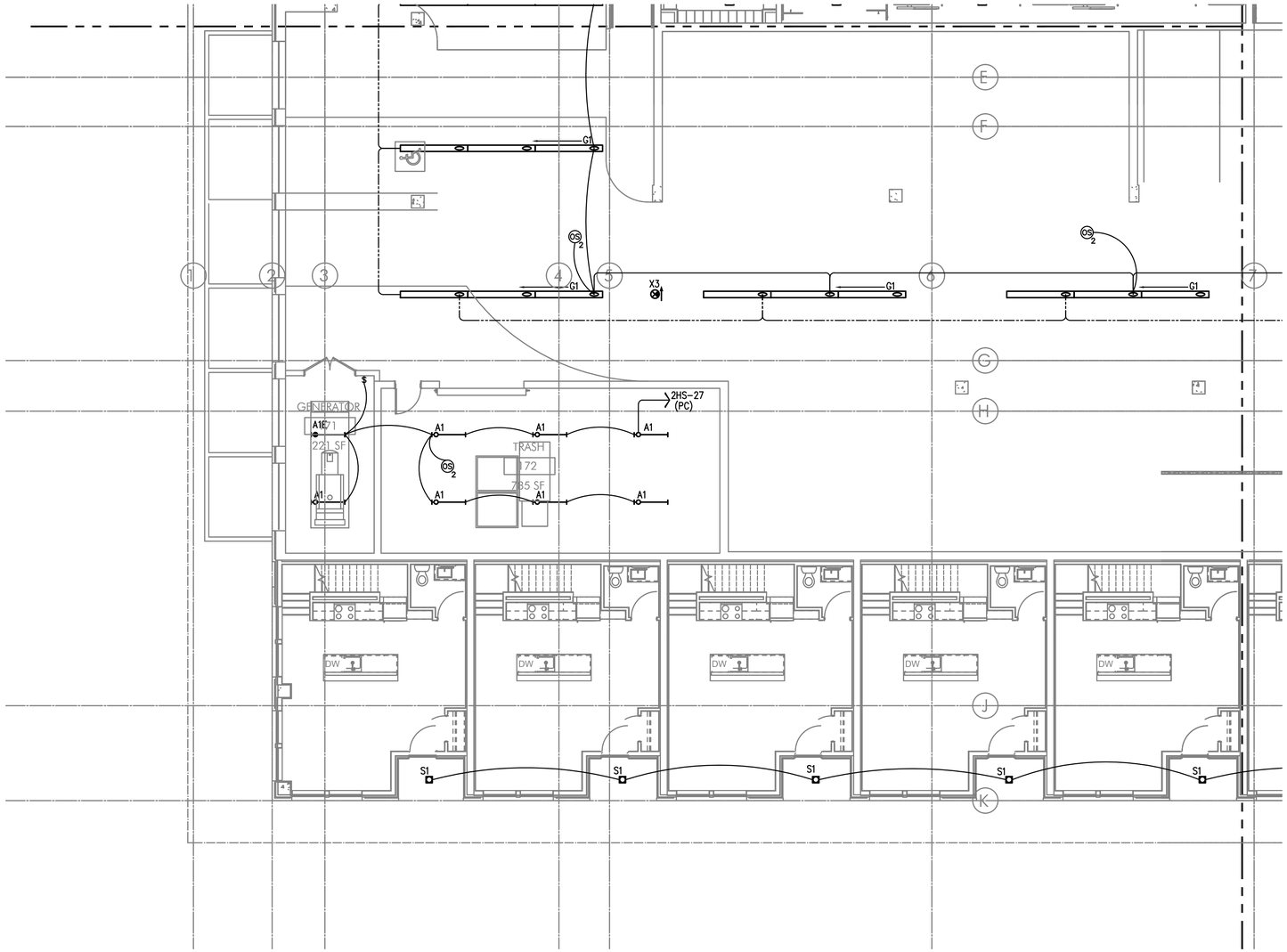
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SHEET:
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S
E2.01
PARTIAL FIRST FLOOR POWER PLAN
SCALE: 1/8 = 1'-0"

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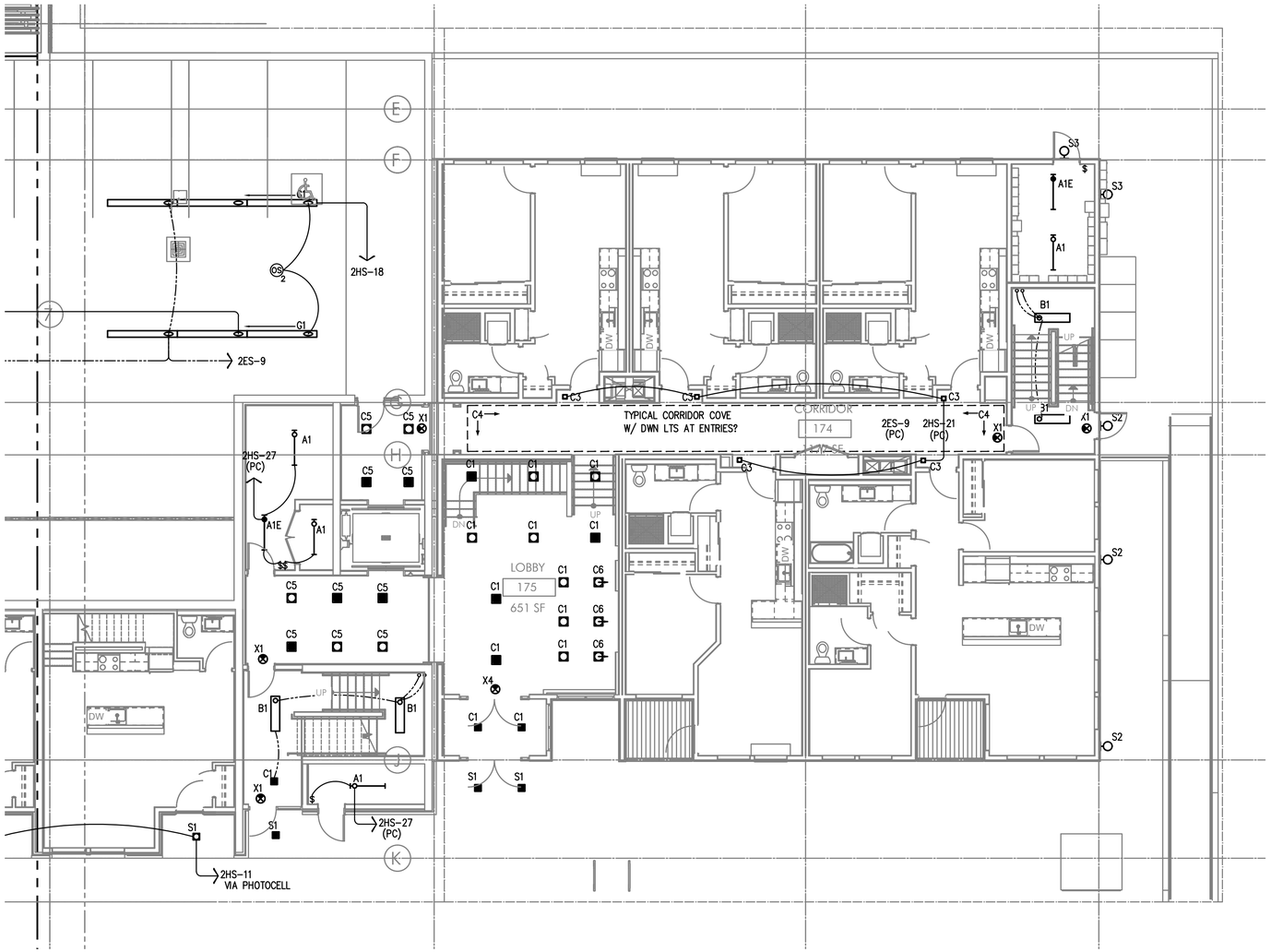
PROJECT # 2017-110
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SHEET:
S
E2.01

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

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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 & E1.22 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.

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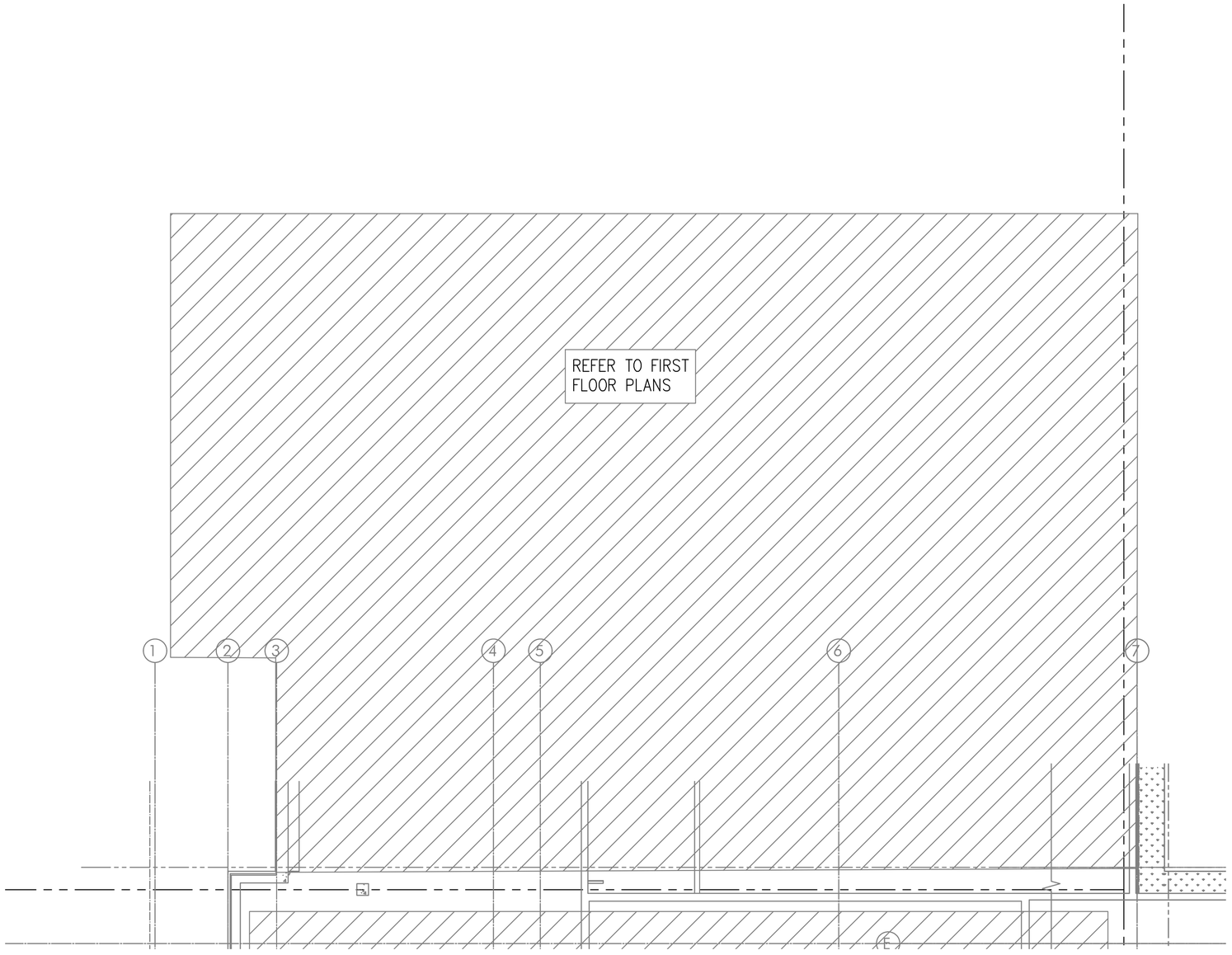
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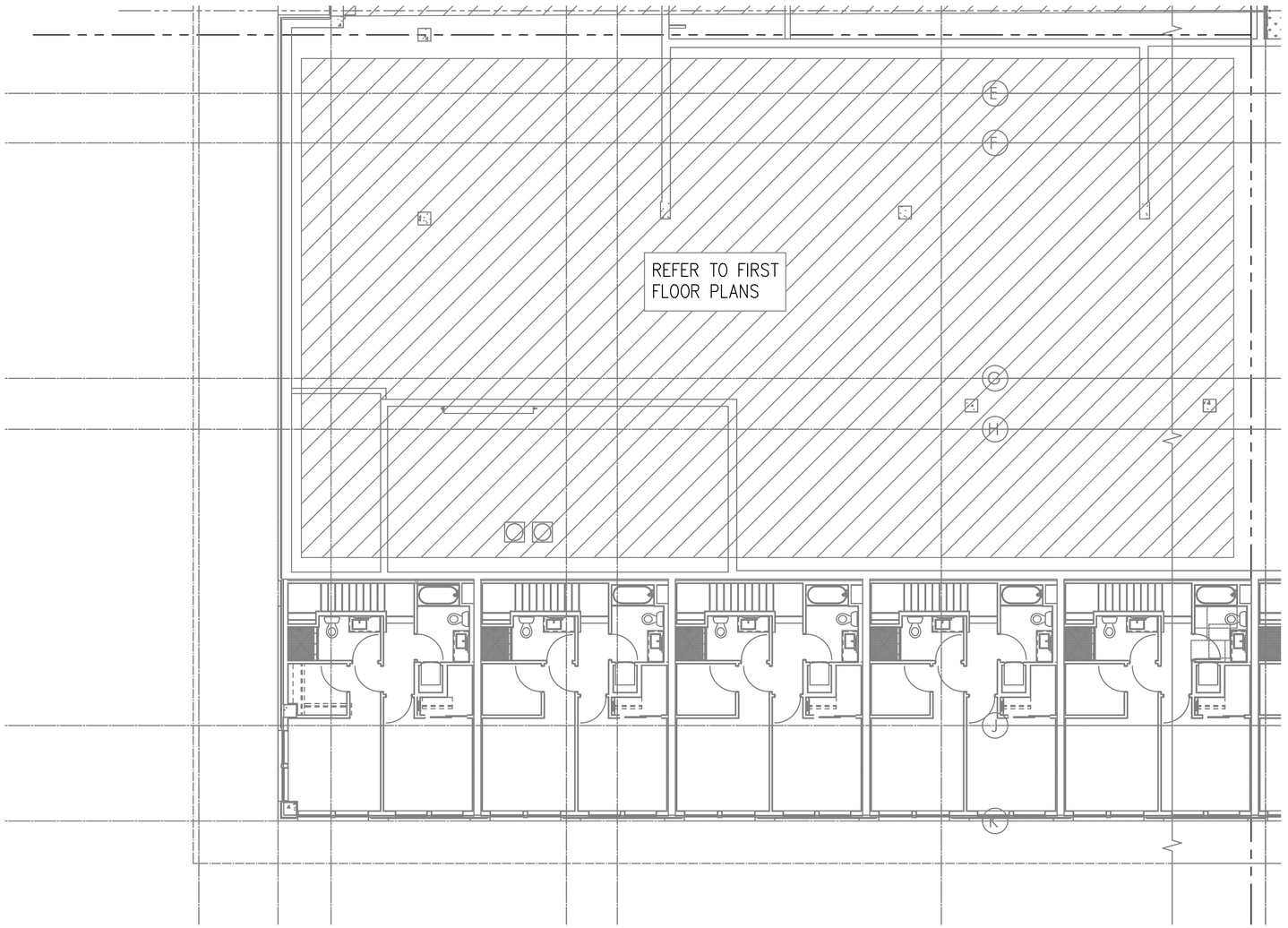
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E2.02
PARTIAL SECOND FLOOR POWER PLAN
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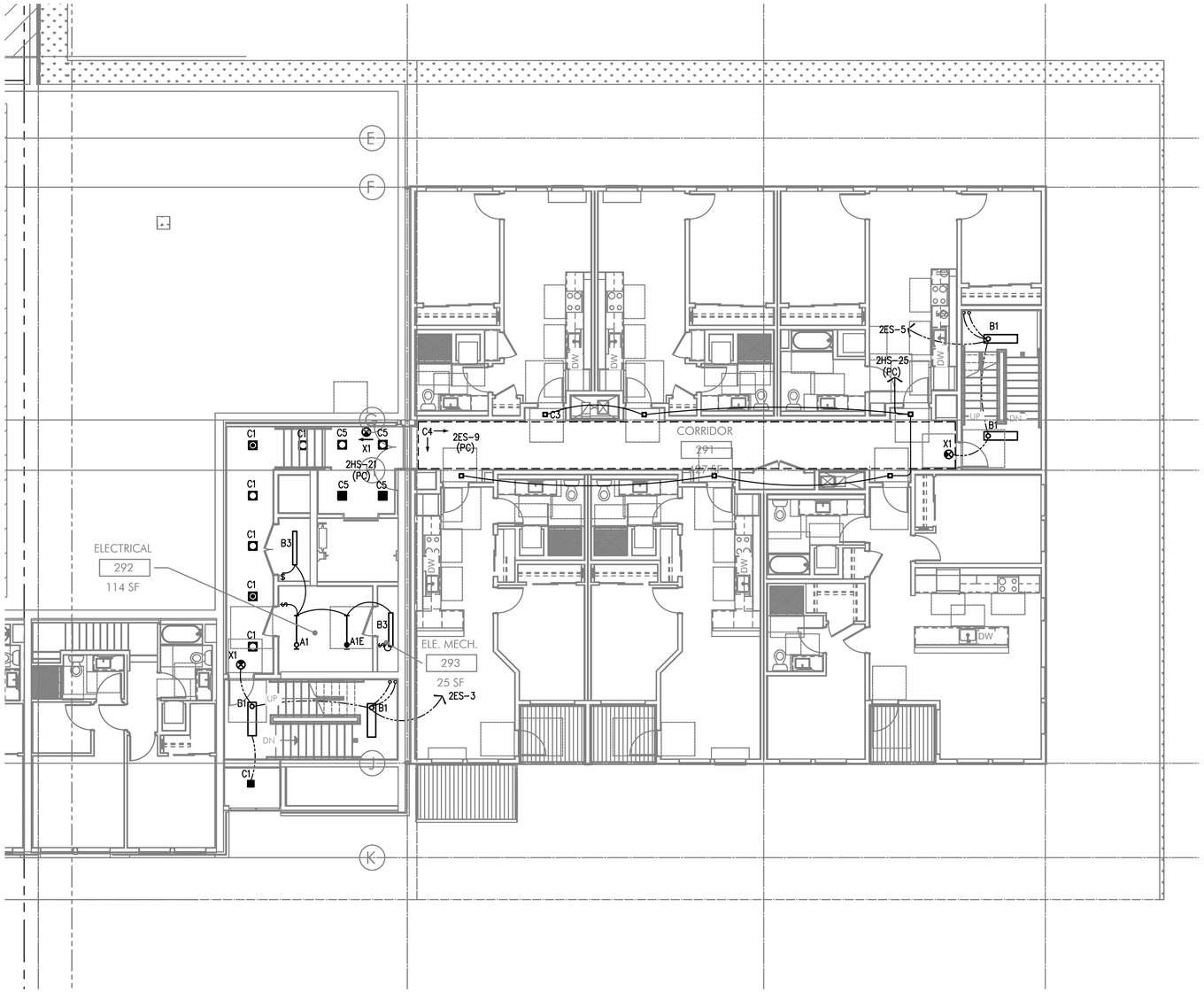
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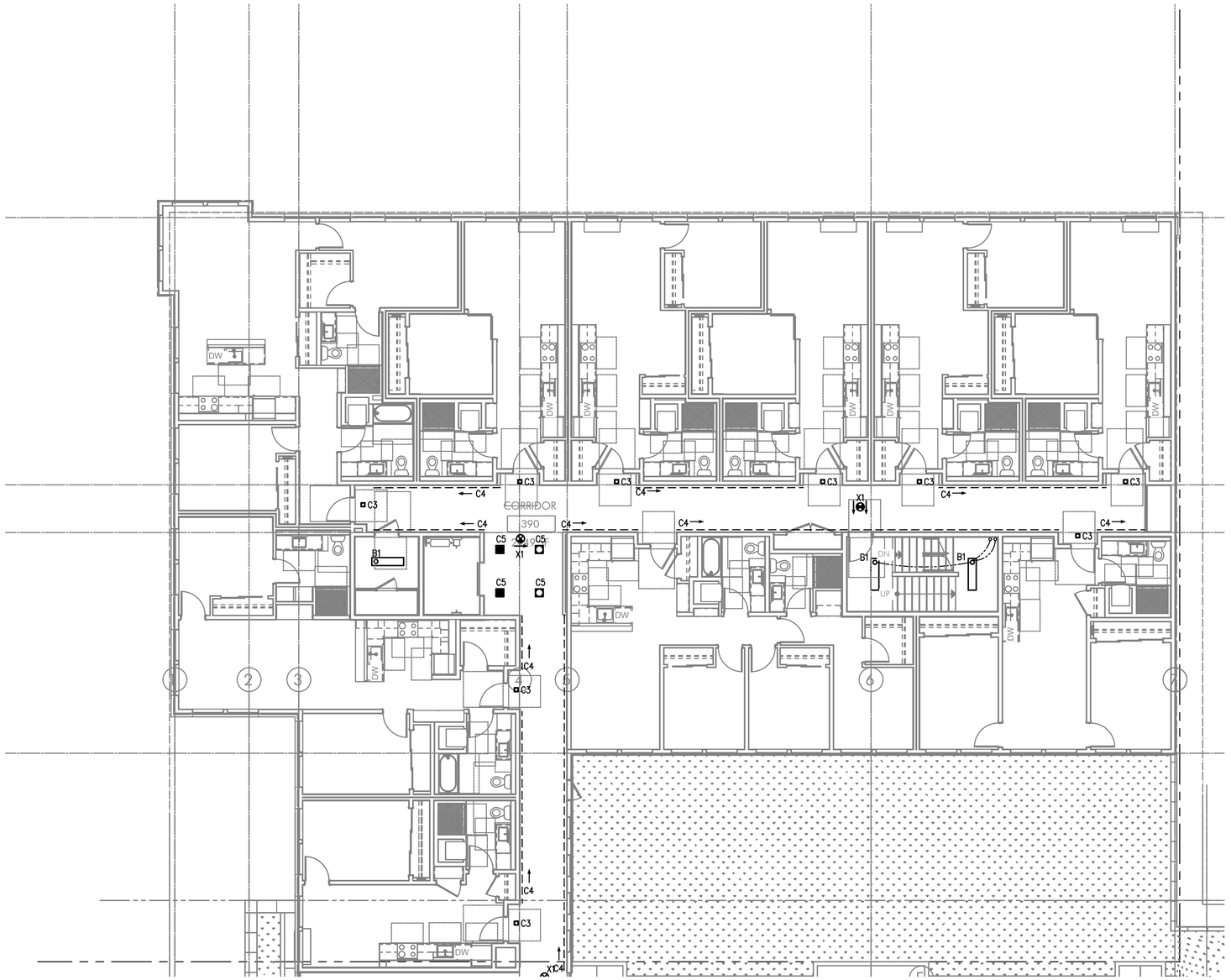
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PARTIAL THIRD FLOOR POWER PLAN
SCALE: 1/8 = 1'-0"

GENERAL LIGHTING NOTES:

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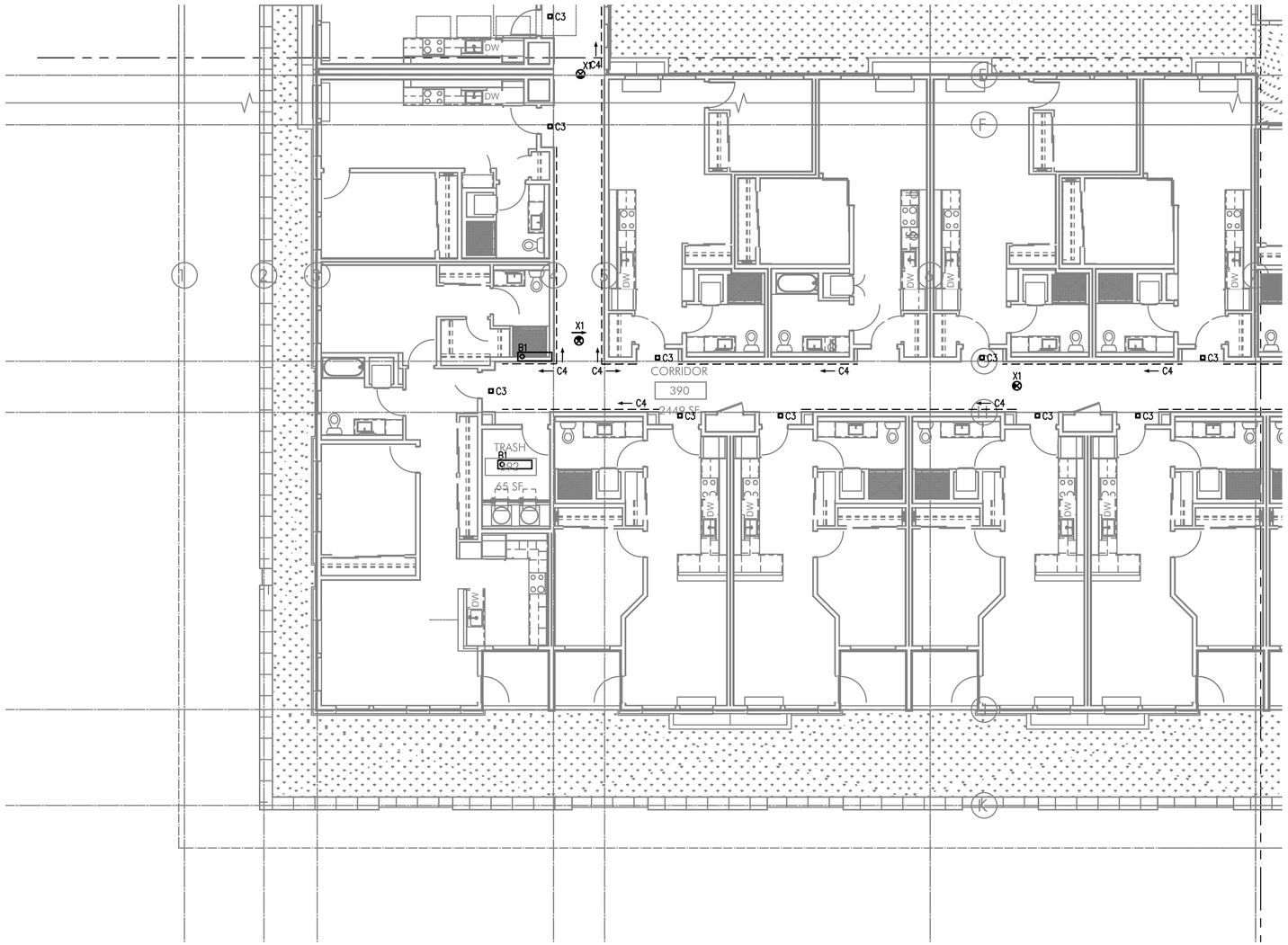
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S / E2.03 PARTIAL THIRD FLOOR POWER PLAN

SCALE: 1/8 = 1'-0"

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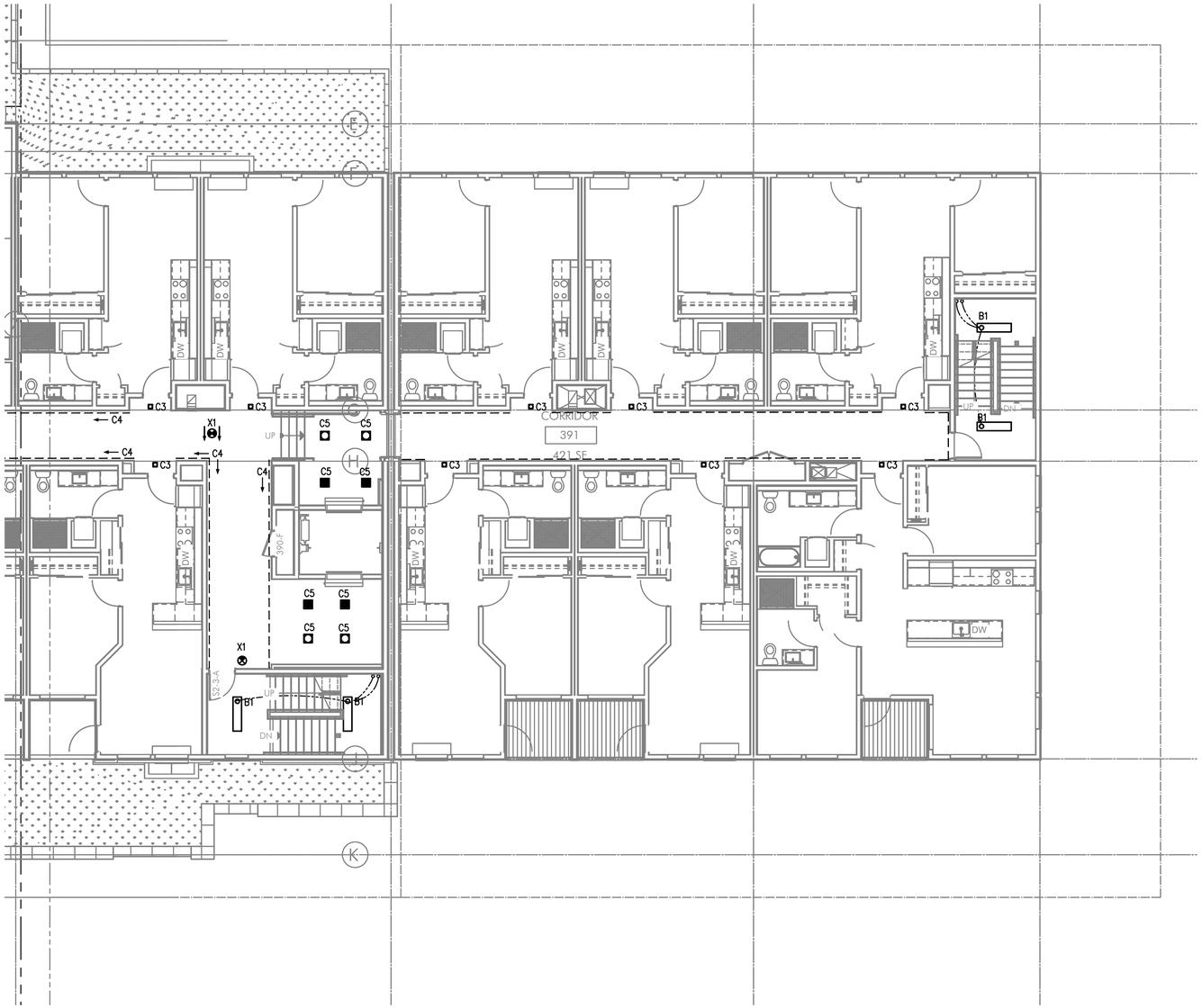
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SE / E2.03 PARTIAL THIRD FLOOR POWER PLAN
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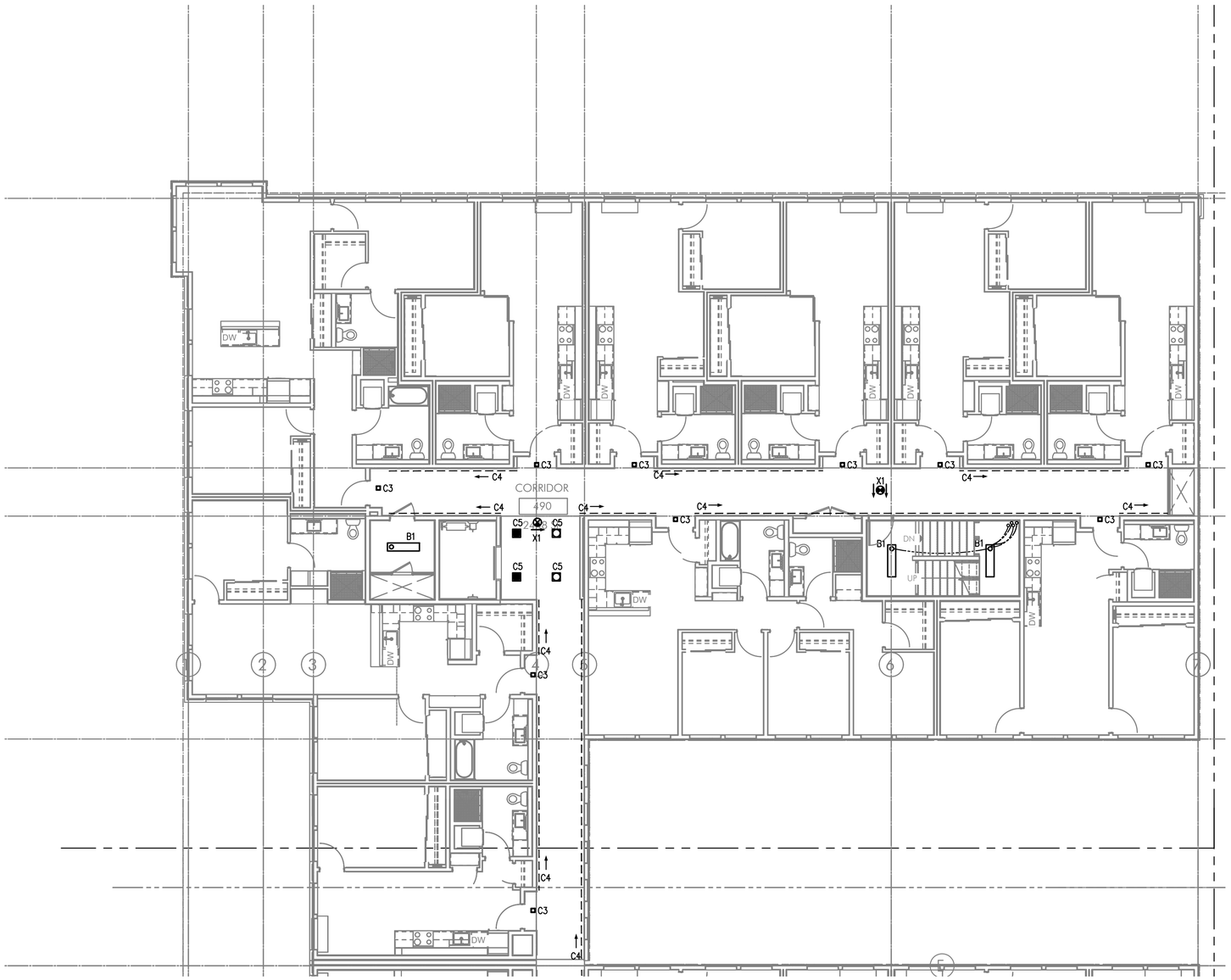
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E2.04
PARTIAL FOURTH FLOOR POWER PLAN
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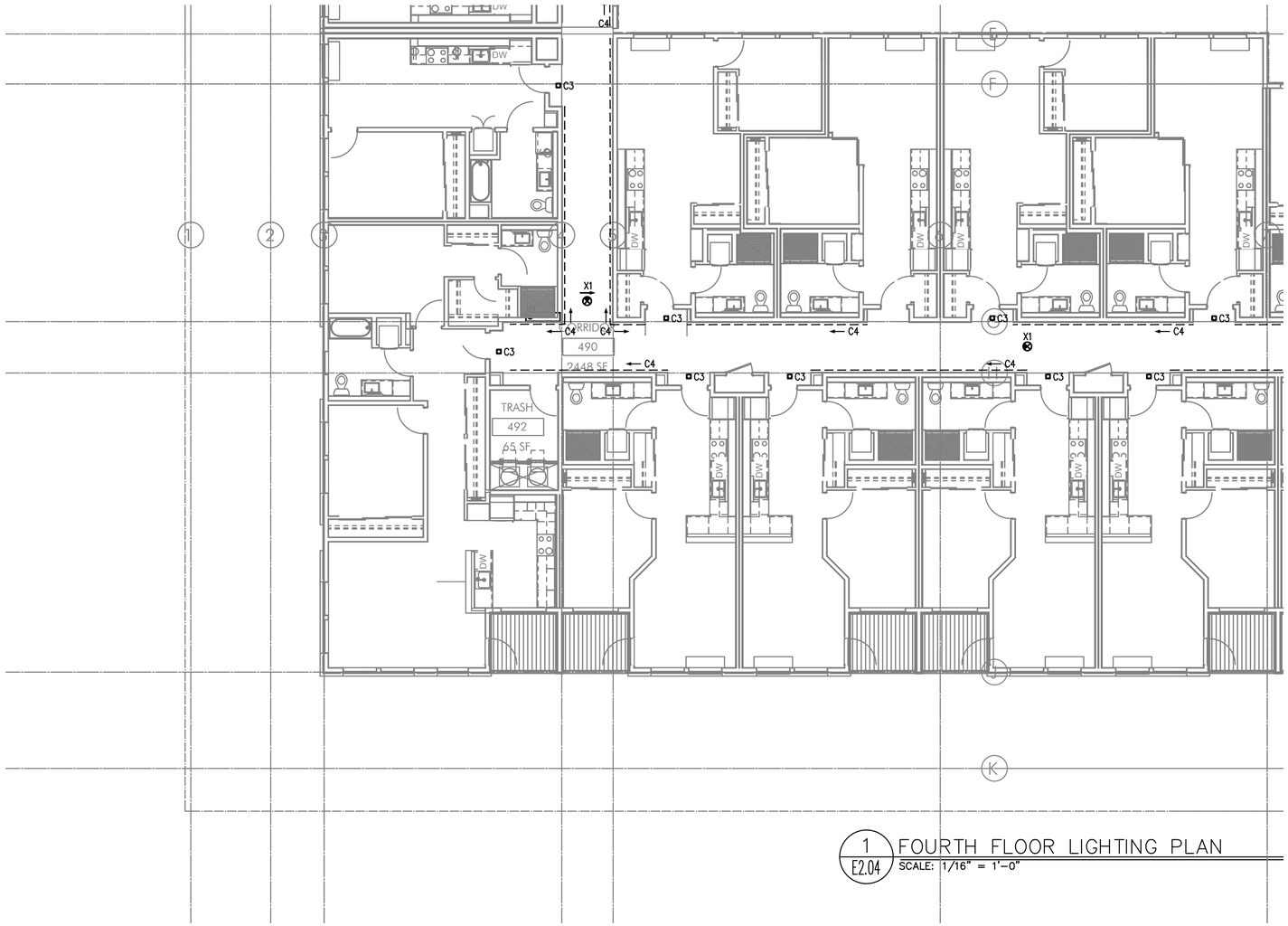
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SHEET:
N
E2.04

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1 E2.04 FOURTH FLOOR LIGHTING PLAN
SCALE: 1/16" = 1'-0"

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

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

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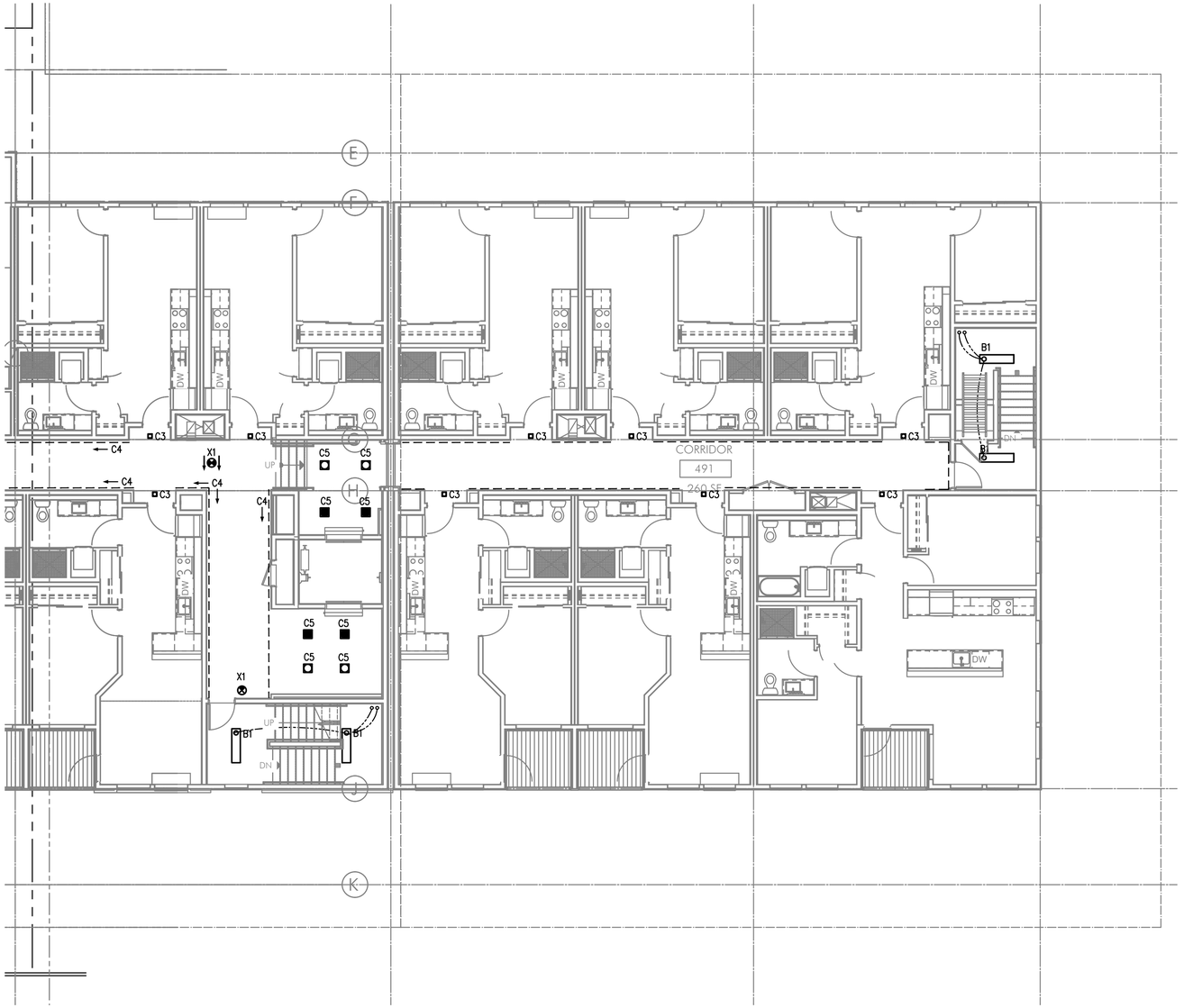
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SE / E2.04 PARTIAL FOURTH FLOOR POWER PLAN

SCALE: 1/8 = 1'-0"

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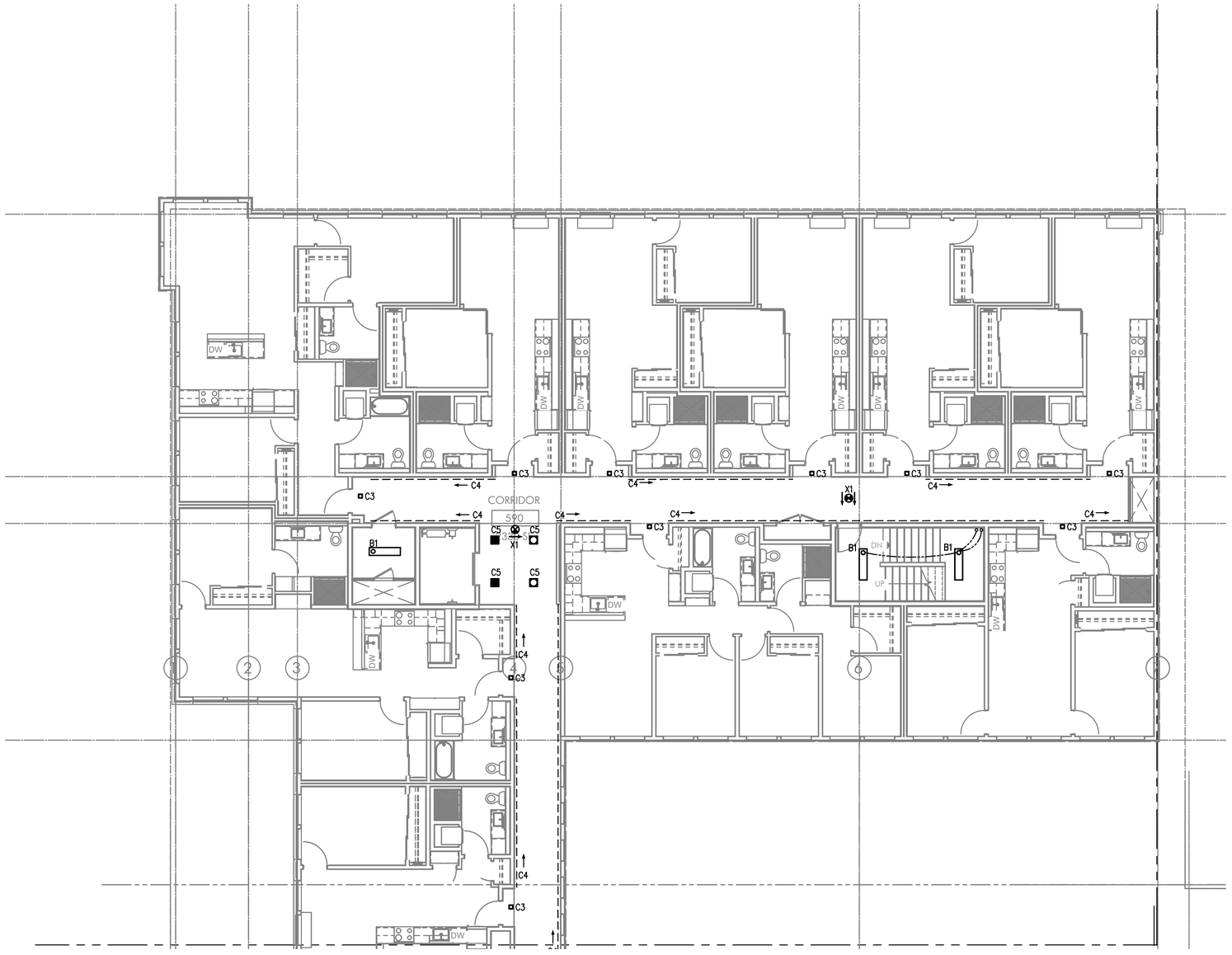
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PARTIAL FIFTH FLOOR POWER PLAN
SCALE: 1/8 = 1'-0"

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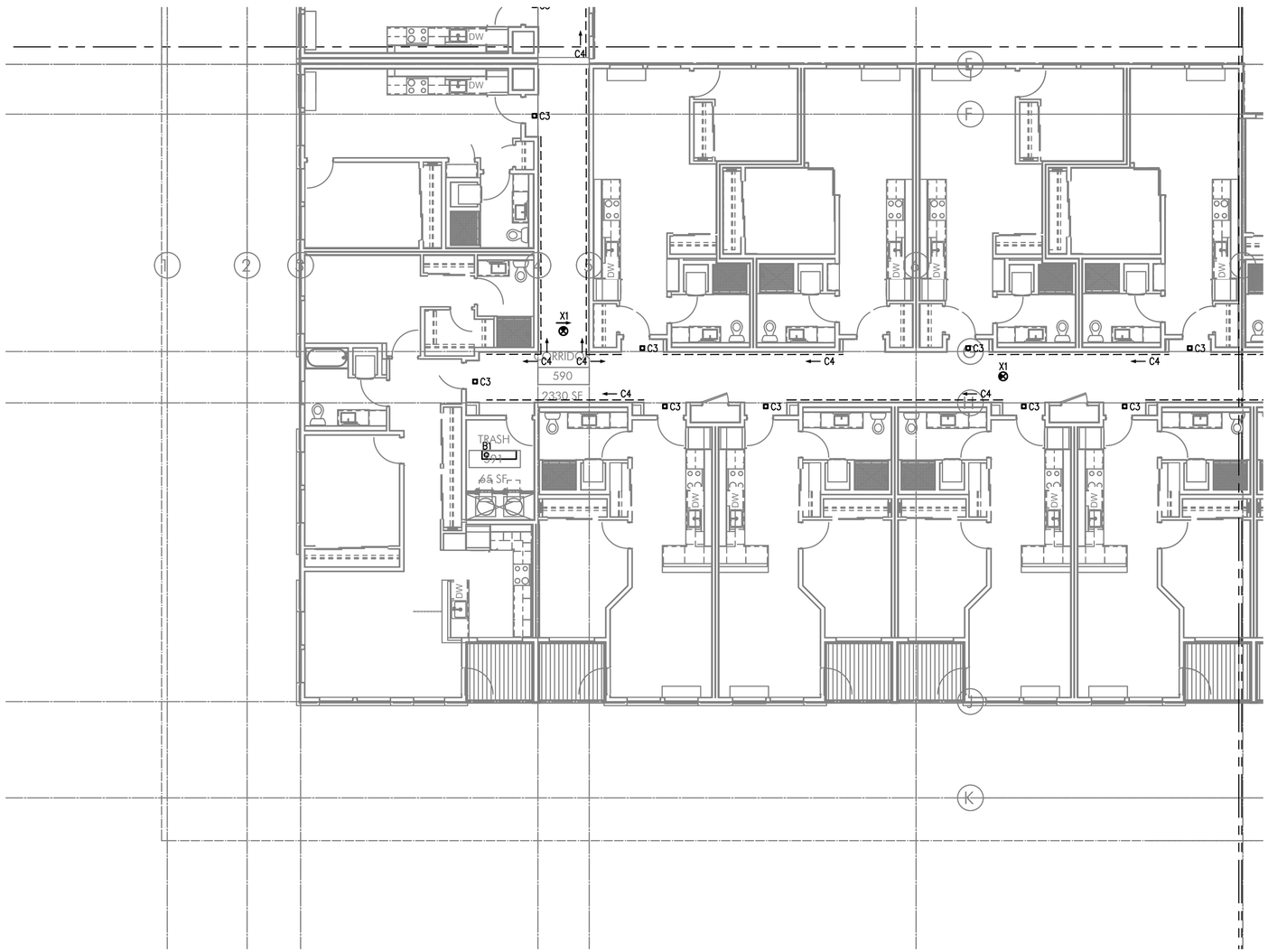
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C. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE RESIDENTIAL UNITS.

D. REFER TO SHEET E1.21 & E1.22 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.

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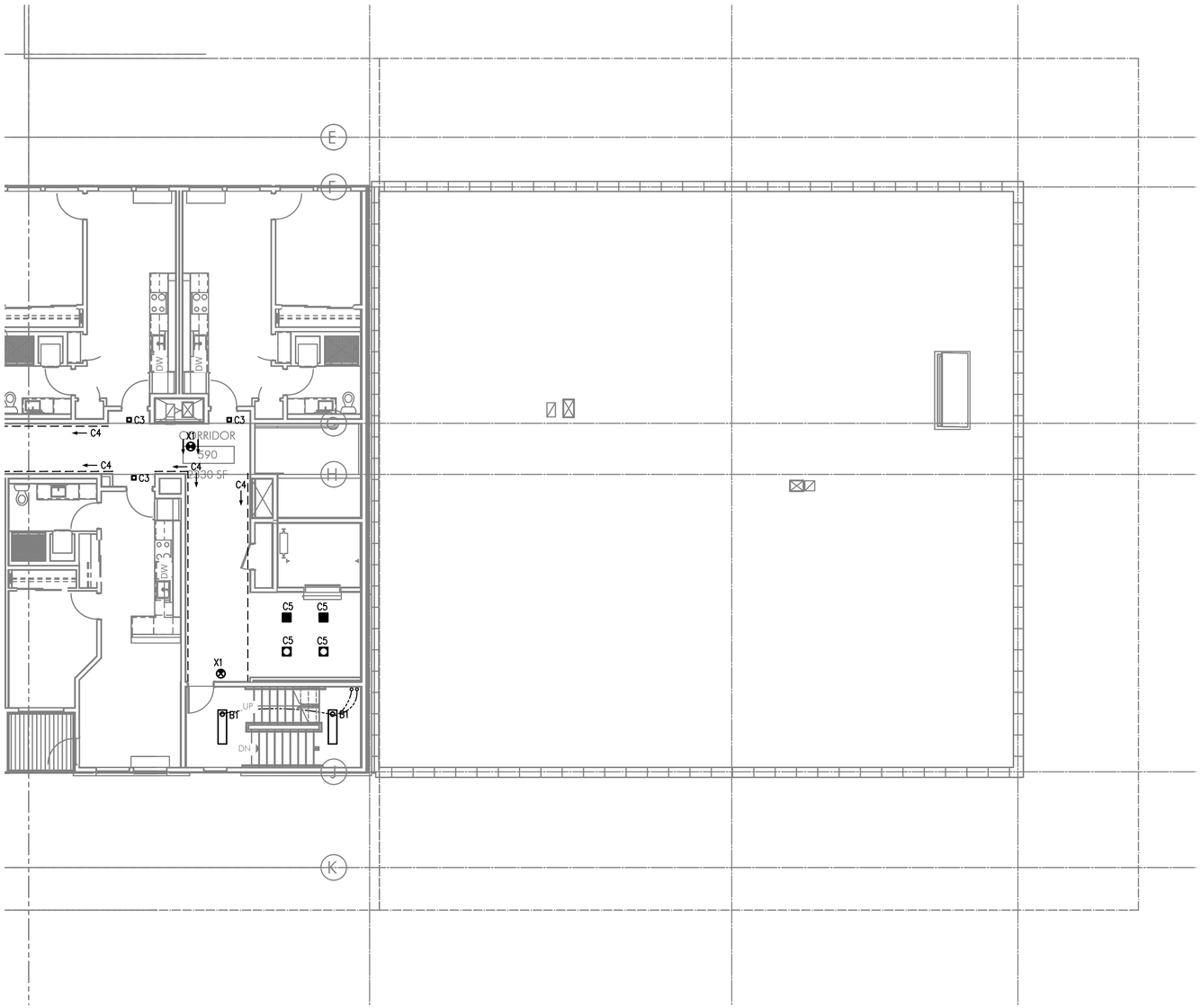
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SHEET:
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E2.05

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SE / E2.05 PARTIAL FIFTH FLOOR POWER PLAN

SCALE: 1/8 = 1'-0"

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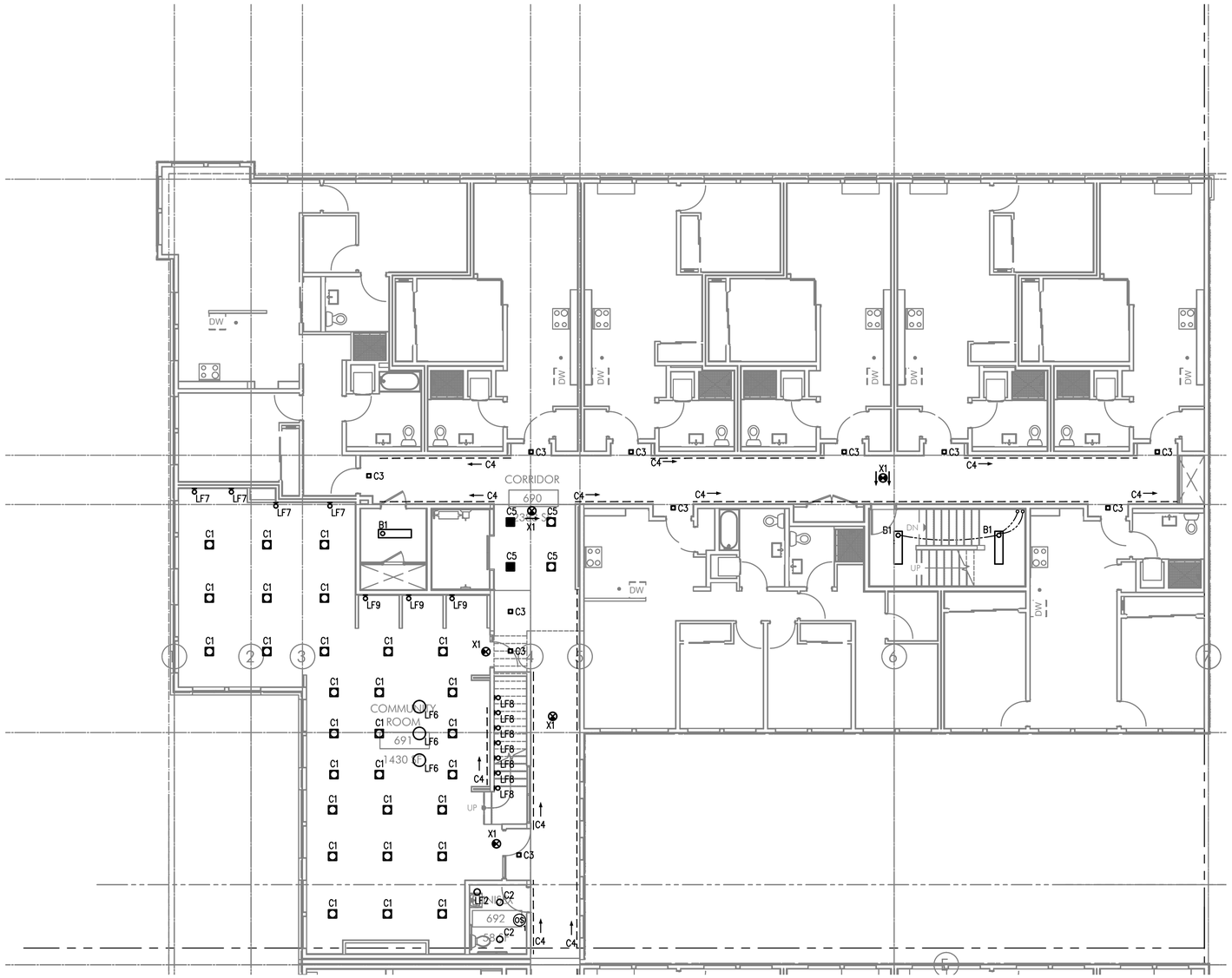
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SHEET:
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E2.06 PARTIAL SIXTH FLOOR POWER PLAN
SCALE: 1/8 = 1'-0"

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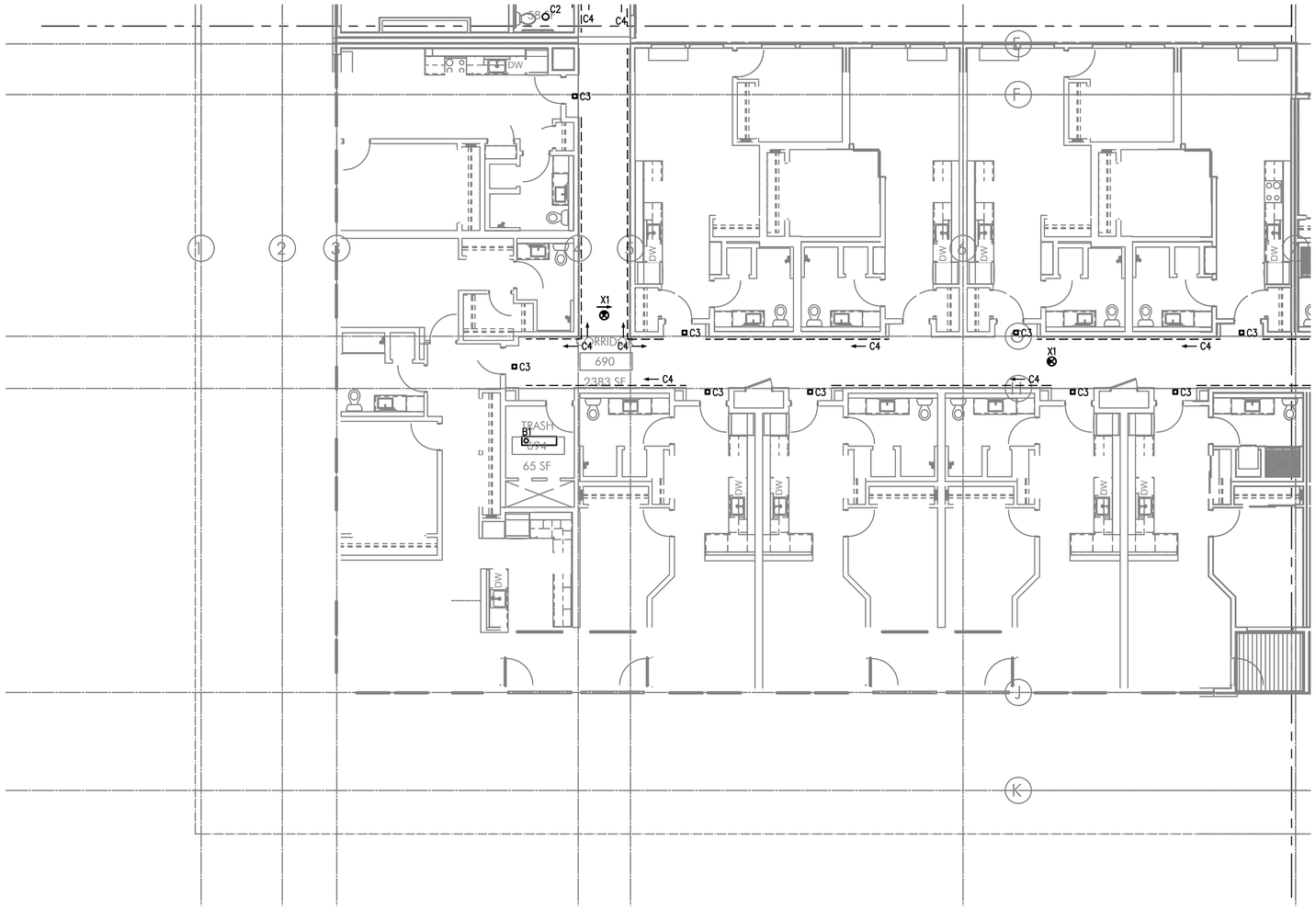
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SHEET:
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S E2.06 PARTIAL SIXTH FLOOR POWER PLAN
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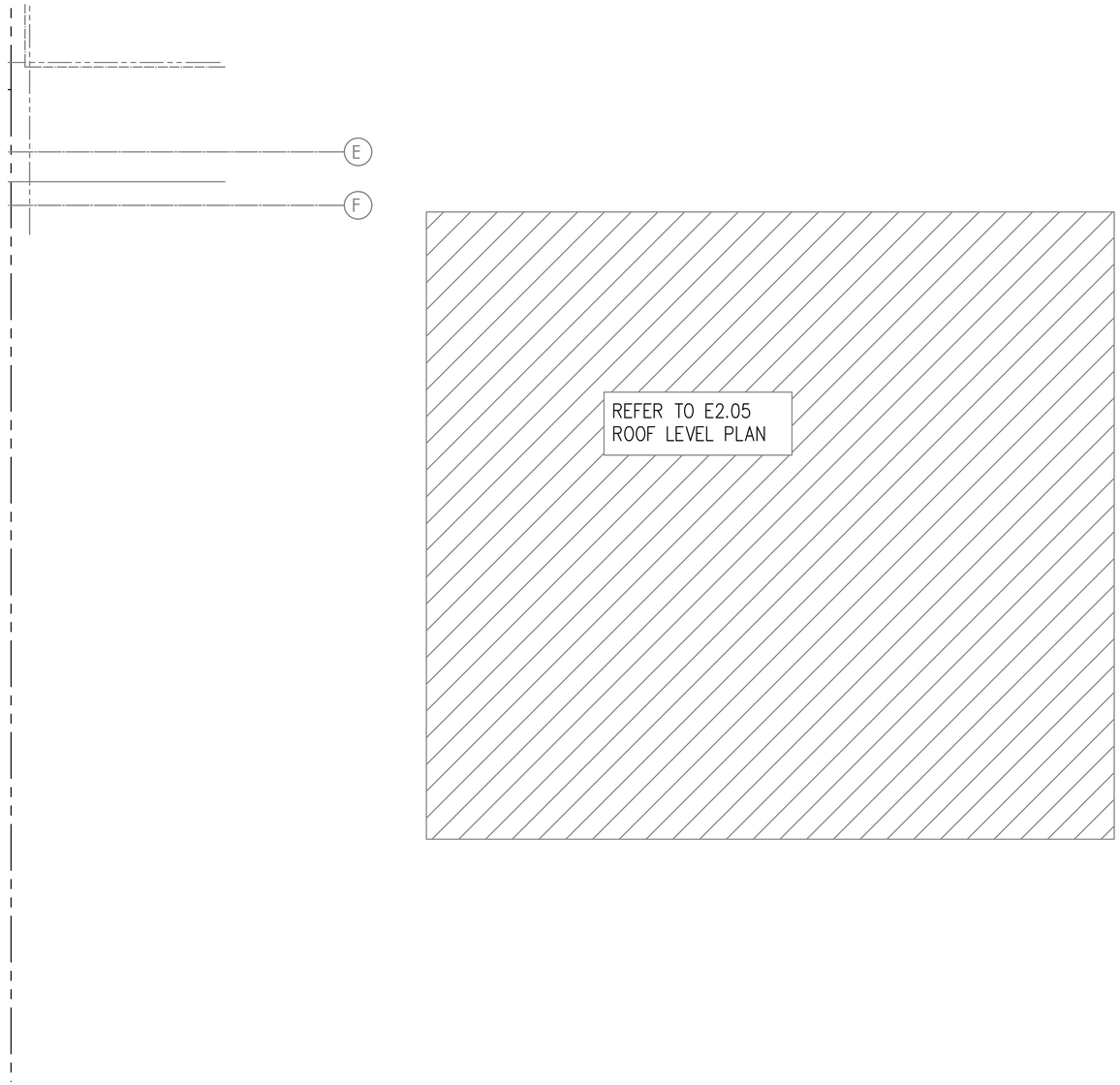
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SHEET:
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E2.06

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SE / E2.06 PARTIAL SIXTH FLOOR POWER PLAN

SCALE: 1/8 = 1'-0"

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 & E1.22 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 LOCAL MANUAL OVERRIDE SWITCHES FOR MAINTENANCE. REFER TO SHEET E1.22 FOR SWITCH WIRING DIAGRAMS.

J. REFER TO SHEET E1.23 FOR LIGHTING CONTROL DIAGRAMS AND DESIGN INTENT. VERIFY LIGHTING CONTROLLABILITY WITH ARCHITECT AND/OR OWNER'S REPRESENTATIVE TO DETERMINE EXACT NEEDS FOR ALL PUBLIC/COMMON AREAS SUCH AS LOBBIES, OFFICES, LOUNGE AREAS, ETC., PRIOR TO THE START OF ANY WORK.

K. 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.

L. 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.

⬡ KEYED NOTES:

1. CONTINUE CIRCUIT UP THROUGH THE STAIRWELL.
2. EXTERIOR BUILDING LIGHTS TO BE CONTROLLED VIA INTEGRAL AND/OR REMOTE PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E1.21-E1.22 FOR ADDITIONAL INFORMATION.
3. LEASE SPACE LIGHTING TO HAVE DUAL SWITCHES. ONE TO CONTROL NORMAL POWER LIGHTS AND ONE TO ACT AS A MANUAL OVERRIDE FOR NIGHT LIGHT FIXTURES (NL). INTENT IS THAT THE NIGHT LIGHTS ARE TO BE "ON" 24/7 AND ONLY ILLUMINATED AT NIGHT VIA PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. NIGHT LIGHT FIXTURES SHALL ALSO BE EQUIPPED WITH EMERGENCY BATTERY BACKUP IN THE EVENT OF A POWER FAILURE. ALL LIGHT FIXTURES IN THE LEASE SPACE ARE TO BE ON A SINGLE CIRCUIT AND TEMPORARILY FED FROM THE HOUSE PANEL
4. LIGHTING CONTROL FOR LOBBY, CORRIDOR & COMMON SPACES. REFER TO DETAIL #1, SHEET E1.23 FOR MORE INFORMATION.
5. LIGHTING CONTROLS FOR THIS AREA LOCATED IN THE MAINTENANCE ROOM. SEE SHEET NOTE #4 FOR MORE INFORMATION.
6. TIE INTO TEMPORARY LIGHTING CIRCUIT AND ENSURE BATTERY BACK UP POWER FOR EGRESS.
7. LIGHT FIXTURES IN THIS SPACE CONTROLLED BY CEILING MOUNT OCCUPANCY SENSOR.
8. FIXTURE FINISH TO MATCH SOFFIT METAL.
9. PROVIDE POWER CONNECTION FOR COVE LIGHTING AT ALL WALL NICHES TO WALL WASH ART INSTALLATIONS. REFER TO INTERIOR DECORATOR'S INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION REGARDING LENGTH & LOCATION. REFER TO SHEET NOTE #4 FOR INFORMATION REGARDING LIGHTING CONTROL.
10. REFER TO DETAIL #3, SHEET E1.23 FOR CLUBROOM LIGHTING CONTROL ASSIGNMENT.
11. PROVIDE PHOTOCELL FOR DAY-LIGHT REDUCTION OF LIGHT LEVELS.
12. PROVIDE FIXTURE TYPE LF1 UNDER SHELF LIGHTING PER INTERIOR DECORATOR'S DIRECTION. PROVIDE CIRCUITING AND SWITCHING AS INDICATED. TYPICAL FOR TWO SHELVES. REFER TO FIXTURE SCHEDULE ON E1.21 AND DETAIL #4 ON E1.17 FOR MORE INFORMATION.
13. CONTRACTOR TO COORDINATE WITH LANDSCAPE LIGHTING INSTALLER AND PROVIDE ROUGH-IN AND POWER CONNECTION(S) AS REQUIRED.
14. TYPICAL LIGHTING CONTROL FOR RESIDENTIAL CORRIDORS. REFER TO DETAIL #2, SHEET E1.23 FOR MORE INFORMATION.
15. TYPICAL LIGHTING CONTROL FOR 6TH FLOOR CORRIDOR. REFER TO DETAIL #3, SHEET E1.23 FOR MORE INFORMATION.
16. 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.
17. COORDINATE EXACT LOCATION OF LIGHT FIXTURES WITH ARCHITECT PRIOR TO ROUGH IN.
18. CIRCUIT SERVICE CORRIDOR LIGHT FIXTURES AHEAD OF SWITCHED FIXTURES ON SAME CIRCUIT. CORRIDOR LIGHT FIXTURES TO BE CONSTANT 'ON'.

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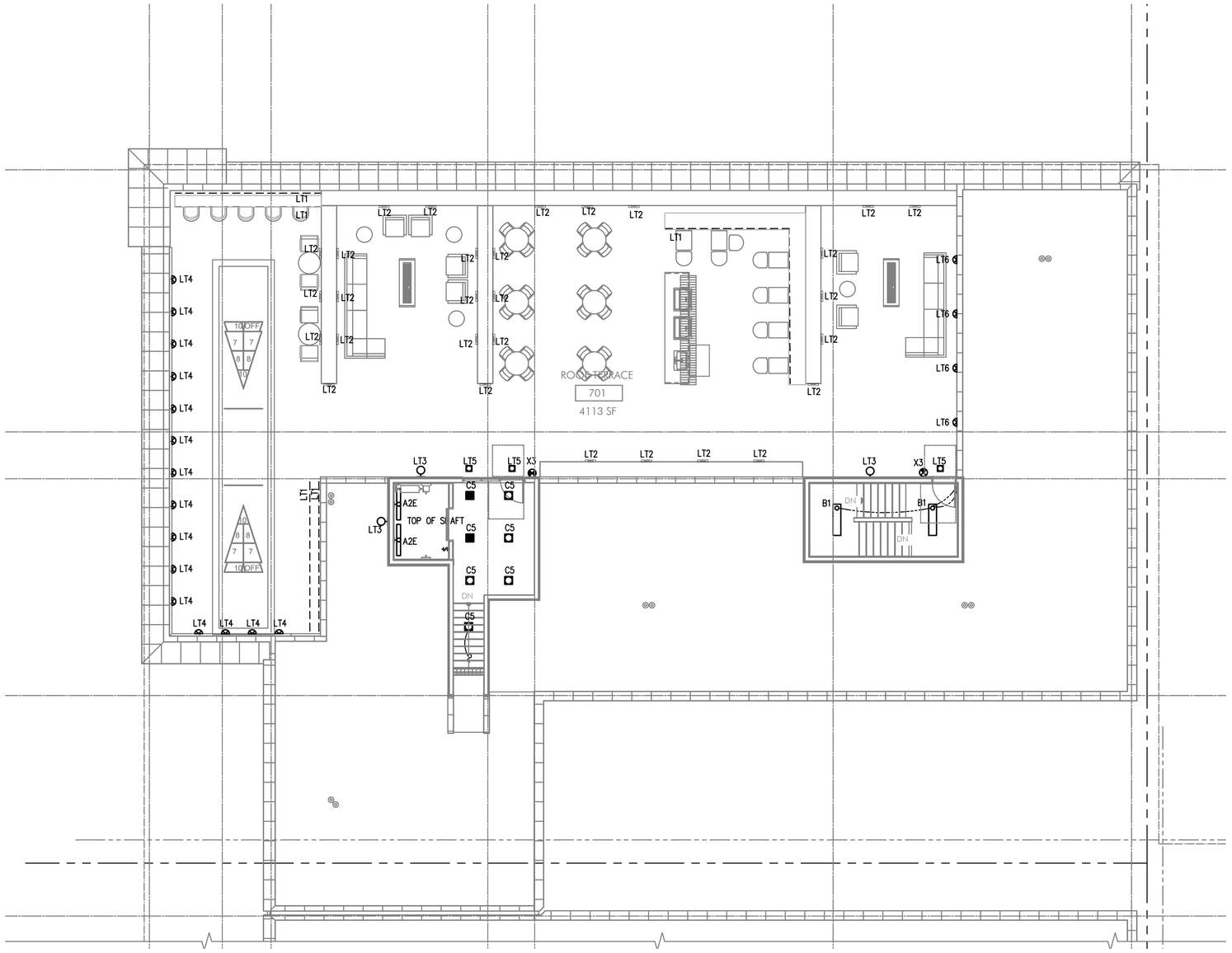
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E2.07
PARTIAL ROOF LEVEL POWER PLAN
SCALE: 1/8 = 1'-0"

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.

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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 LOCAL MANUAL OVERRIDE SWITCHES FOR MAINTENANCE. REFER TO SHEET E1.22 FOR SWITCH WIRING DIAGRAMS.

J. REFER TO SHEET E1.23 FOR LIGHTING CONTROL DIAGRAMS AND DESIGN INTENT. VERIFY LIGHTING CONTROLLABILITY WITH ARCHITECT AND/OR OWNER'S REPRESENTATIVE TO DETERMINE EXACT NEEDS FOR ALL PUBLIC/COMMON AREAS SUCH AS LOBBIES, OFFICES, LOUNGE AREAS, ETC., PRIOR TO THE START OF ANY WORK.

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⬡ KEYED NOTES:

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2. EXTERIOR BUILDING LIGHTS TO BE CONTROLLED VIA INTEGRAL AND/OR REMOTE PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E1.21-E1.22 FOR ADDITIONAL INFORMATION.
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4. LIGHTING CONTROL FOR LOBBY, CORRIDOR & COMMON SPACES. REFER TO DETAIL #1, SHEET E1.23 FOR MORE INFORMATION.
5. LIGHTING CONTROLS FOR THIS AREA LOCATED IN THE MAINTENANCE ROOM. SEE SHEET NOTE #4 FOR MORE INFORMATION.
6. TIE INTO TEMPORARY LIGHTING CIRCUIT AND ENSURE BATTERY BACK UP POWER FOR EGRESS.
7. LIGHT FIXTURES IN THIS SPACE CONTROLLED BY CEILING MOUNT OCCUPANCY SENSOR.
8. FIXTURE FINISH TO MATCH SOFFIT METAL.
9. PROVIDE POWER CONNECTION FOR COVE LIGHTING AT ALL WALL NICHES TO WALL WASH ART INSTALLATIONS. REFER TO INTERIOR DECORATOR'S INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION REGARDING LENGTH & LOCATION. REFER TO SHEET NOTE #4 FOR INFORMATION REGARDING LIGHTING CONTROL.
10. REFER TO DETAIL #3, SHEET E1.23 FOR CLUBROOM LIGHTING CONTROL ASSIGNMENT.
11. PROVIDE PHOTOCELL FOR DAY-LIGHT REDUCTION OF LIGHT LEVELS.
12. PROVIDE FIXTURE TYPE LF1 UNDER SHELF LIGHTING PER INTERIOR DECORATOR'S DIRECTION. PROVIDE CIRCUITING AND SWITCHING AS INDICATED. TYPICAL FOR TWO SHELVES. REFER TO FIXTURE SCHEDULE ON E1.21 AND DETAIL #4 ON E1.17 FOR MORE INFORMATION.
13. CONTRACTOR TO COORDINATE WITH LANDSCAPE LIGHTING INSTALLER AND PROVIDE ROUGH-IN AND POWER CONNECTION(S) AS REQUIRED.
14. TYPICAL LIGHTING CONTROL FOR RESIDENTIAL CORRIDORS. REFER TO DETAIL #2, SHEET E1.23 FOR MORE INFORMATION.
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16. 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.
17. COORDINATE EXACT LOCATION OF LIGHT FIXTURES WITH ARCHITECT PRIOR TO ROUGH IN.
18. CIRCUIT SERVICE CORRIDOR LIGHT FIXTURES AHEAD OF SWITCHED FIXTURES ON SAME CIRCUIT. CORRIDOR LIGHT FIXTURES TO BE CONSTANT 'ON'.

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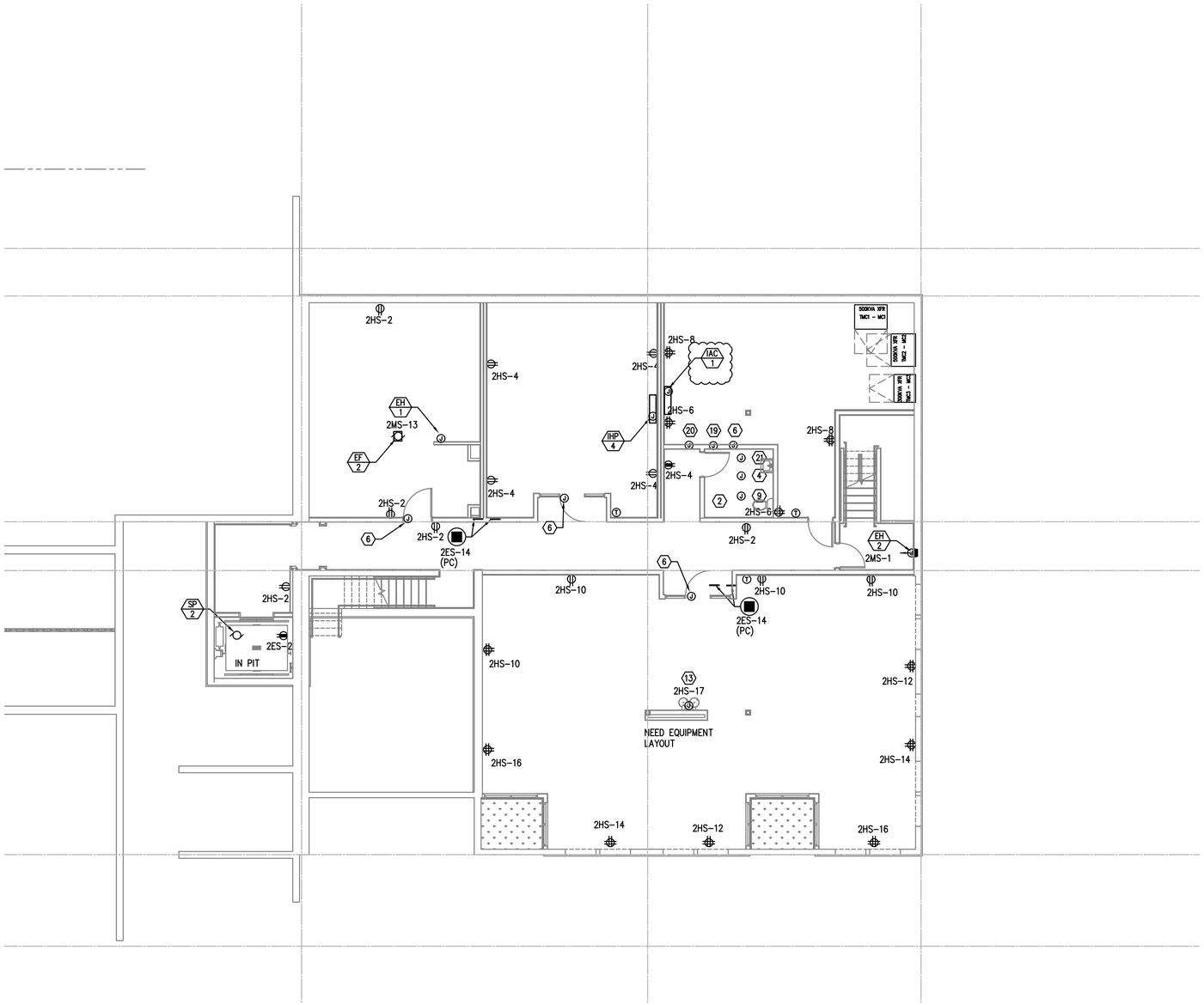
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SE / E3.00 PARTIAL BASEMENT LEVEL POWER PLAN

SCALE: 1/8 = 1'-0"

GENERAL POWER NOTES:

A. REFER TO SHEET E1.00 FOR GENERAL POWER NOTES.

B. REFER TO E4 SERIES SHEETS FOR TYPICAL UNIT POWER PLANS.

⬡ KEYED NOTES:

1. ROUTE (2) EMPTY 3 1/2" CONDUIT WITH PULL STRING, FROM MC3, IN CEILING ABOVE AND STUBBED INTO EACH LEASE SPACE FOR TENANT SUPPLIED BRANCH PANEL AND CAP OFF.
2. CONTINUOUS OPERATING EXHAUST FAN TO BE TIED INTO LIGHTING CIRCUIT FOR THIS AREA.
3. GENERATOR DISCONNECT. SEE ONE-LINE DIAGRAM ON SHEET E1.10.
4. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR GENERATOR REMOTE ANNUNCIATOR. REFER TO PANEL 2ES-8.
5. PROVIDE ONE 20A,120V, 1P POWER CONNECTION FOR BUILDING SIGNS. CIRCUIT AS INDICATED VIA LIGHTING CONTROL PANEL. MOUNT JUNCTION BOX TIGHT TO CEILING (AT BUILDING INTERIOR), COORDINATING EXACT LOCATION WITH SIGN INSTALLER'S SLEEVE AND PER ARCHITECT'S DIRECTION AT EACH LOCATION.
6. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL 2HS FOR BUILDING ENTRY ACCESS CONTROL SYSTEM AND PROVIDE ROUGH IN AND WIRING TO ACCESS POINTS LOCATED ON PLANS. SYSTEM HEAD-IN LOCATED IN BASEMENT MAINTENANCE ROOM. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
7. VERIFY ELEVATOR EQUIPMENT LOCATION AND ELECTRICAL REQUIREMENTS WITH ARCHITECT AND/OR ELEVATOR PROVIDER.
8. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR AUTOMATIC DOOR OPENERS. CIRCUIT AS INDICATED.
9. PROVIDE ONE 20A, 120V, 1P DEDICATED CIRCUIT FROM PANEL H1, CKT 29 FOR DAS SYSTEM.
10. PACKAGE CONCIERGE SYSTEM. MOUNT DUPLEX RECEPTACLES AT 76" AFF. CIRCUIT AS INDICATED.
11. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR A/V SYSTEM CONTROL, FROM PANEL XX. CONSULT INTERIORS GROUP FOR EXACT LOCATION. COORDINATE WITH SYSTEM INSTALLER FOR EXACT REQUIREMENTS.
12. ELECTRICAL SERVICE METER ROOMS SHALL HAVE OUTWARD SWING DOORS EQUIPPED WITH PANIC HARDWARE. PROVIDE A KEY BOX AT THE EXTERIOR FOR CLARK PUBLIC UTILITIES 24/7 ACCESS.
13. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR DRINKING FOUNTAIN FROM PANEL 2HS. CONSULT MECHANICAL AND/OR PLUMBING CONTRACTOR FOR EXACT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH IN.
14. LOW VOLTAGE/COMMUNICATIONS SYSTEM DEMARCATION BOARD(S). COORDINATE LOCATIONS AND ELECTRICAL POWER REQUIREMENTS WITH THE TELECOM PLANS ('T' SERIES SHEETS) AND LOW VOLTAGE SYSTEMS INSTALLERS, AND PROVIDE ROUGH IN AND/OR FINAL ELECTRICAL POWER CONNECTIONS & DEVICES. REFER PANEL 2HS FOR CIRCUIT DESIGNATIONS.
15. CEILING MOUNTED 20A DUPLEX RECEPTACLE FOR SECURITY CAMERA. CONSULT ARCHITECT FOR ADDITIONAL INFORMATION. CIRCUIT AS INDICATED.
16. DEDICATED SHAFT FOR THE ROUTING OF ELECTRICAL FEEDERS FROM TENANT METERS TO RESIDENTIAL UNITS.
17. PROVIDE RECEPTACLE WITH TYPES A & C USB PORTS, LEVITON T5633-T OR APPROVED EQUAL.
18. PROVIDE ONE 20A, 120V, 1P CIRCUIT AS INDICATED, FOR ELEVATOR SMOKE CURTAINS. SMOKE CURTAINS ARE TO BE SMOKE GUARD SYSTEM MODEL 200 AND SHALL BE INSTALLED AT EACH ELEVATOR LOBBY. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE INSTALLATION WITH THE EQUIPMENT PROVIDER/INSTALLER FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO ROUGH IN. EACH SMOKE CURTAIN SHALL BE INTERLINKED WITH THE NEAREST SMOKE DETECTOR AT EACH LOCATION.
19. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL 2HS FOR THE APARTMENT ENTRY SYSTEM PRIMARY CONTROL PANEL AND PROVIDE ROUGH IN AND WIRING, AS NEEDED, TO EACH UNIT ENTRY. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
20. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL 2HS FOR THE SECURITY SYSTEM PANEL AND PROVIDE ROUGH IN AND WIRING, AS NEEDED. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
21. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL 2ES FOR THE FIRE ALARM CONTROL PANEL. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
22. AREA OF REFUGE PANEL. CONSULT FIRE ALARM PLANS ('T' SERIES SHEETS) AND PROVIDE ROUGH IN AS NEEDED.
23. PROVIDE ROUGH IN, AS NEEDED, FOR FIRE ALARM REMOTE ANNUNCIATION PANEL.
24. PROVIDE ROUGH IN, AS NEEDED, FOR AUDIO SYSTEM CONTROLS. COORDINATE EXACT LOCATION WITH THE SYSTEM INSTALLER.
25. PROVIDE ROUGH IN, AS NEEDED, FOR WIFI SYSTEM.
26. ELECTRICAL CONTRACTOR TO COORDINATE WITH LANDSCAPE PROVIDER FOR EXACT LOCATION OF POWER CONNECTIONS AS REQUIRED FOR LANDSCAPE IRRIGATION AND SHALL BE CIRCUITED FROM PANEL 2C1.
27. PROVIDE 120V TWIST TIMER SWITCH (MAX. 60 MINUTES, "NO HOLD") IN WEATHER PROOF BOX FOR GAS GRILL AND FIRE PIT IGNITER CONTROLS. CIRCUIT FROM PANEL 2C1.
28. PROVIDE EMERGENCY SHUTOFF CONTROLS FOR GAS APPLIANCES LOCATED ON TERRACE. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. SEE DETAIL 3/E1.14 FOR EMERGENCY SHUT-OFF DIAGRAM.

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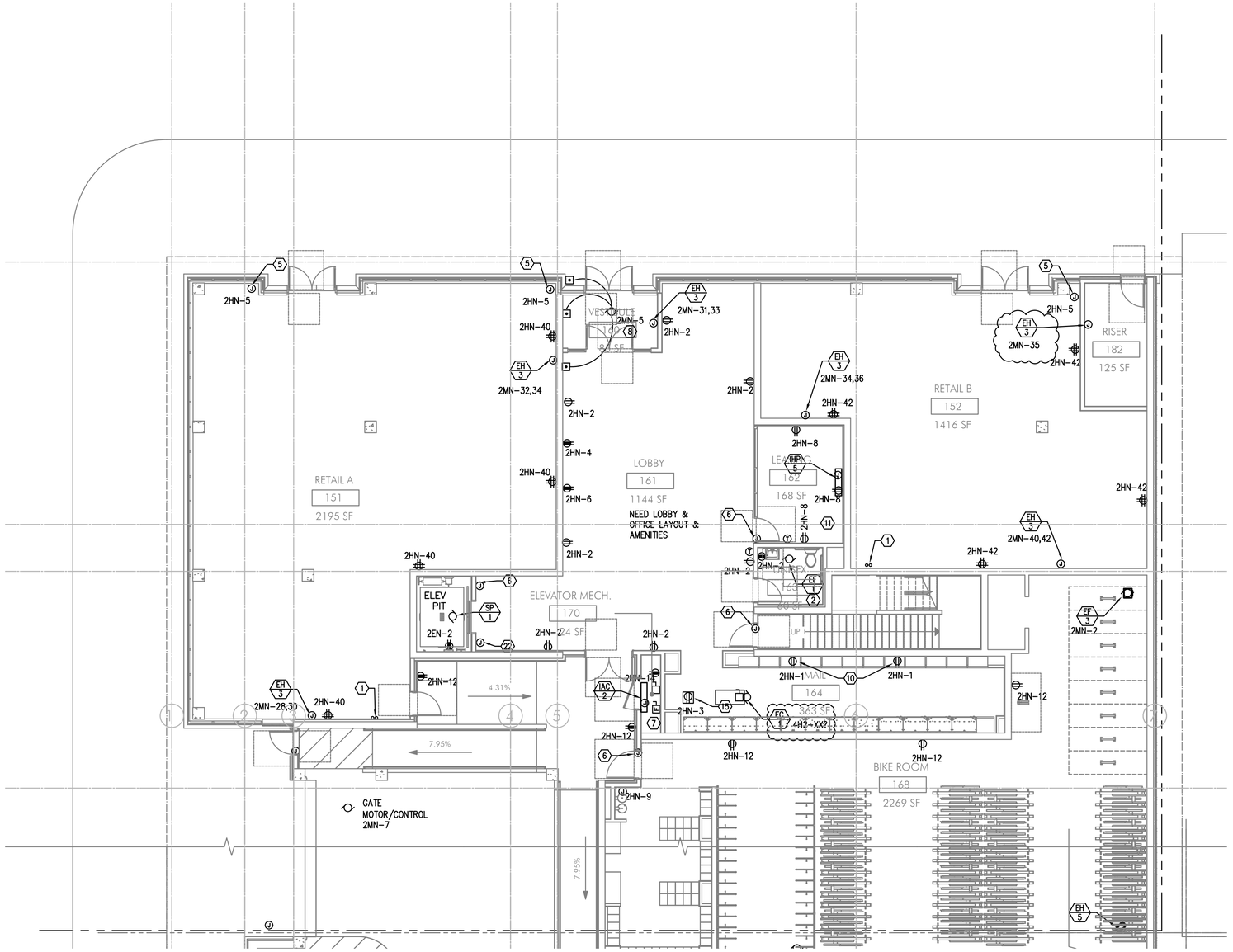
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E3.01 PARTIAL FIRST FLOOR POWER PLAN
SCALE: 1/8 = 1'-0"

GENERAL POWER NOTES:

A. REFER TO SHEET E1.00 FOR GENERAL POWER NOTES.

B. REFER TO E4 SERIES SHEETS FOR TYPICAL UNIT POWER PLANS.

⬡ KEYED NOTES:

1. ROUTE (2) EMPTY 3 1/2" CONDUIT WITH PULL STRING, FROM MC3, IN CEILING ABOVE AND STUBBED INTO EACH LEASE SPACE FOR TENANT SUPPLIED BRANCH PANEL AND CAP OFF.
2. CONTINUOUS OPERATING EXHAUST FAN TO BE TIED INTO LIGHTING CIRCUIT FOR THIS AREA.
3. GENERATOR DISCONNECT. SEE ONE-LINE DIAGRAM ON SHEET E1.10.
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19. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL 2HS FOR THE APARTMENT ENTRY SYSTEM PRIMARY CONTROL PANEL AND PROVIDE ROUGH IN AND WIRING, AS NEEDED, TO EACH UNIT ENTRY. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
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23. PROVIDE ROUGH IN, AS NEEDED, FOR FIRE ALARM REMOTE ANNUNCIATION PANEL.
24. PROVIDE ROUGH IN, AS NEEDED, FOR AUDIO SYSTEM CONTROLS. COORDINATE EXACT LOCATION WITH THE SYSTEM INSTALLER.
25. PROVIDE ROUGH IN, AS NEEDED, FOR WIFI SYSTEM.
26. ELECTRICAL CONTRACTOR TO COORDINATE WITH LANDSCAPE PROVIDER FOR EXACT LOCATION OF POWER CONNECTIONS AS REQUIRED FOR LANDSCAPE IRRIGATION AND SHALL BE CIRCUITED FROM PANEL 2C1.
27. PROVIDE 120V TWIST TIMER SWITCH (MAX. 60 MINUTES, "NO HOLD") IN WEATHER PROOF BOX FOR GAS GRILL AND FIRE PIT IGNITER CONTROLS. CIRCUIT FROM PANEL 2C1.
28. PROVIDE EMERGENCY SHUTOFF CONTROLS FOR GAS APPLIANCES LOCATED ON TERRACE. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. SEE DETAIL 3/E1.14 FOR EMERGENCY SHUT-OFF DIAGRAM.

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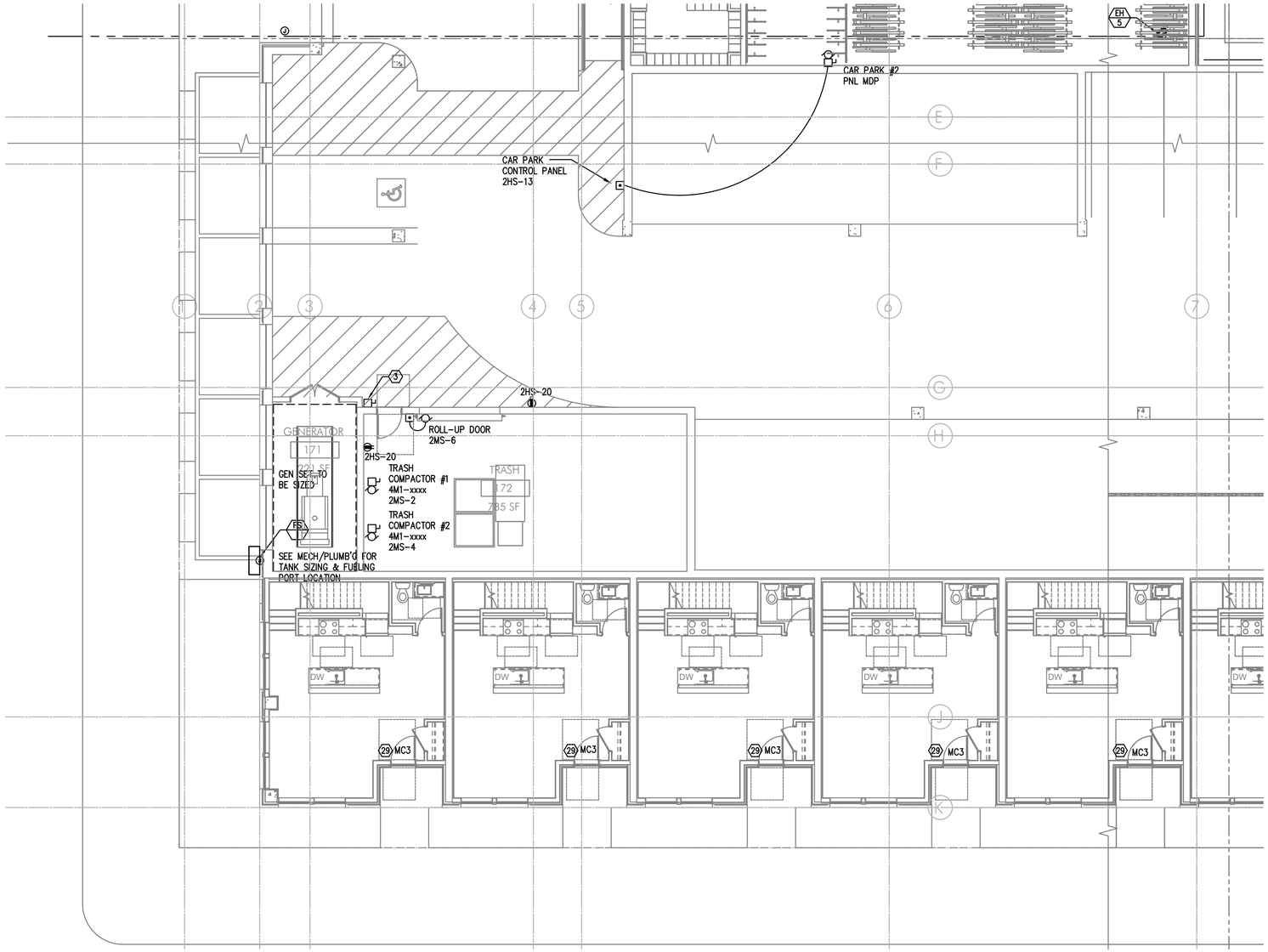
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S / E3.01 PARTIAL FIRST FLOOR POWER PLAN
SCALE: 1/8 = 1'-0"

GENERAL POWER NOTES:

A. REFER TO SHEET E1.00 FOR GENERAL POWER NOTES.

B. REFER TO E4 SERIES SHEETS FOR TYPICAL UNIT POWER PLANS.

⬡ KEYED NOTES:

1. ROUTE (2) EMPTY 3 1/2" CONDUIT WITH PULL STRING, FROM MC3, IN CEILING ABOVE AND STUBBED INTO EACH LEASE SPACE FOR TENANT SUPPLIED BRANCH PANEL AND CAP OFF.
2. CONTINUOUS OPERATING EXHAUST FAN TO BE TIED INTO LIGHTING CIRCUIT FOR THIS AREA.
3. GENERATOR DISCONNECT. SEE ONE-LINE DIAGRAM ON SHEET E1.10.
4. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR GENERATOR REMOTE ANNUNCIATOR. REFER TO PANEL 2ES-8.
5. PROVIDE ONE 20A,120V, 1P POWER CONNECTION FOR BUILDING SIGNS. CIRCUIT AS INDICATED VIA LIGHTING CONTROL PANEL. MOUNT JUNCTION BOX TIGHT TO CEILING (AT BUILDING INTERIOR), COORDINATING EXACT LOCATION WITH SIGN INSTALLER'S SLEEVE AND PER ARCHITECT'S DIRECTION AT EACH LOCATION.
6. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL 2HS FOR BUILDING ENTRY ACCESS CONTROL SYSTEM AND PROVIDE ROUGH IN AND WIRING TO ACCESS POINTS LOCATED ON PLANS. SYSTEM HEAD-IN LOCATED IN BASEMENT MAINTENANCE ROOM. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
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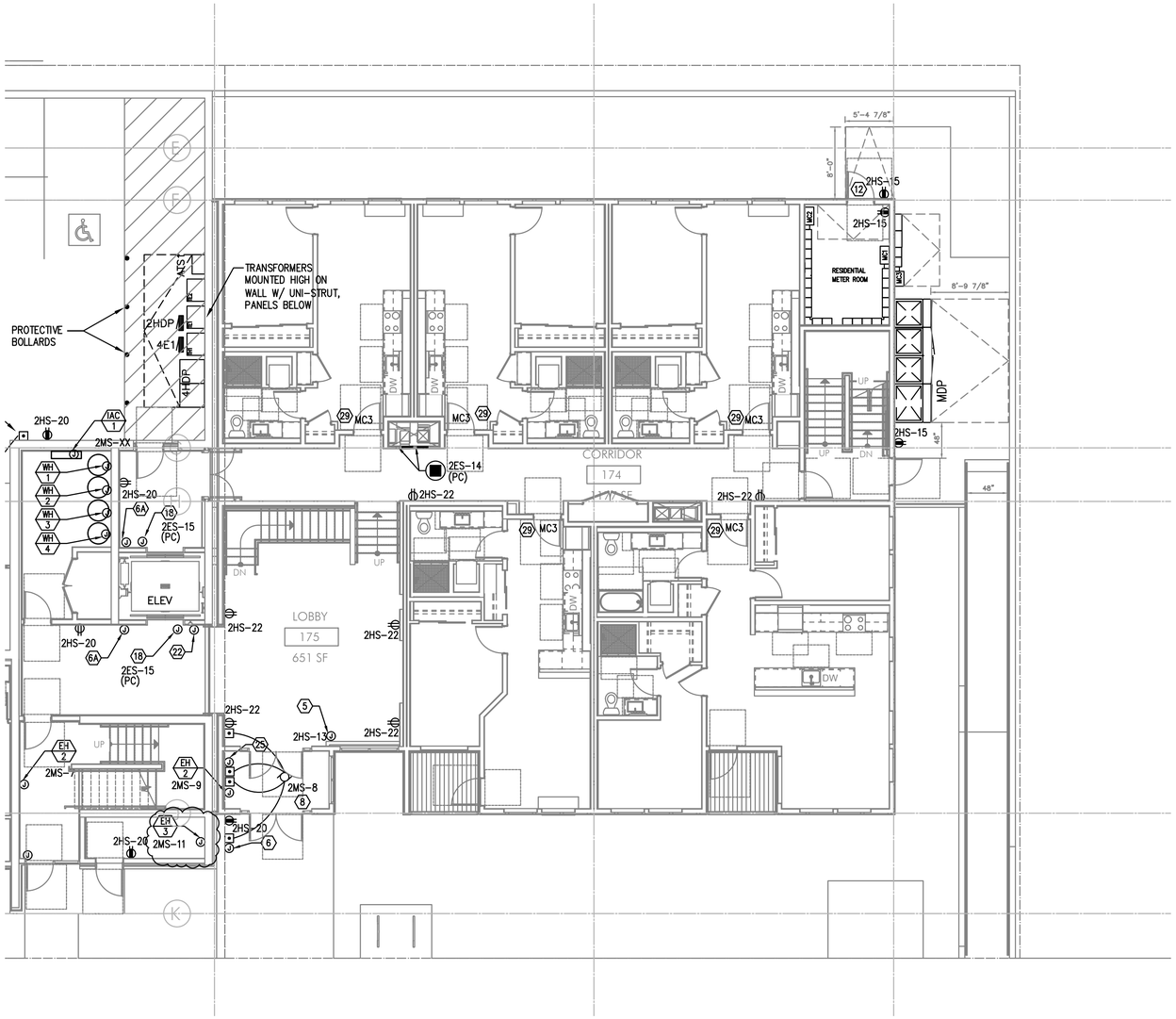
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SE / E3.01 PARTIAL FIRST FLOOR POWER PLAN
SCALE: 1/8 = 1'-0"

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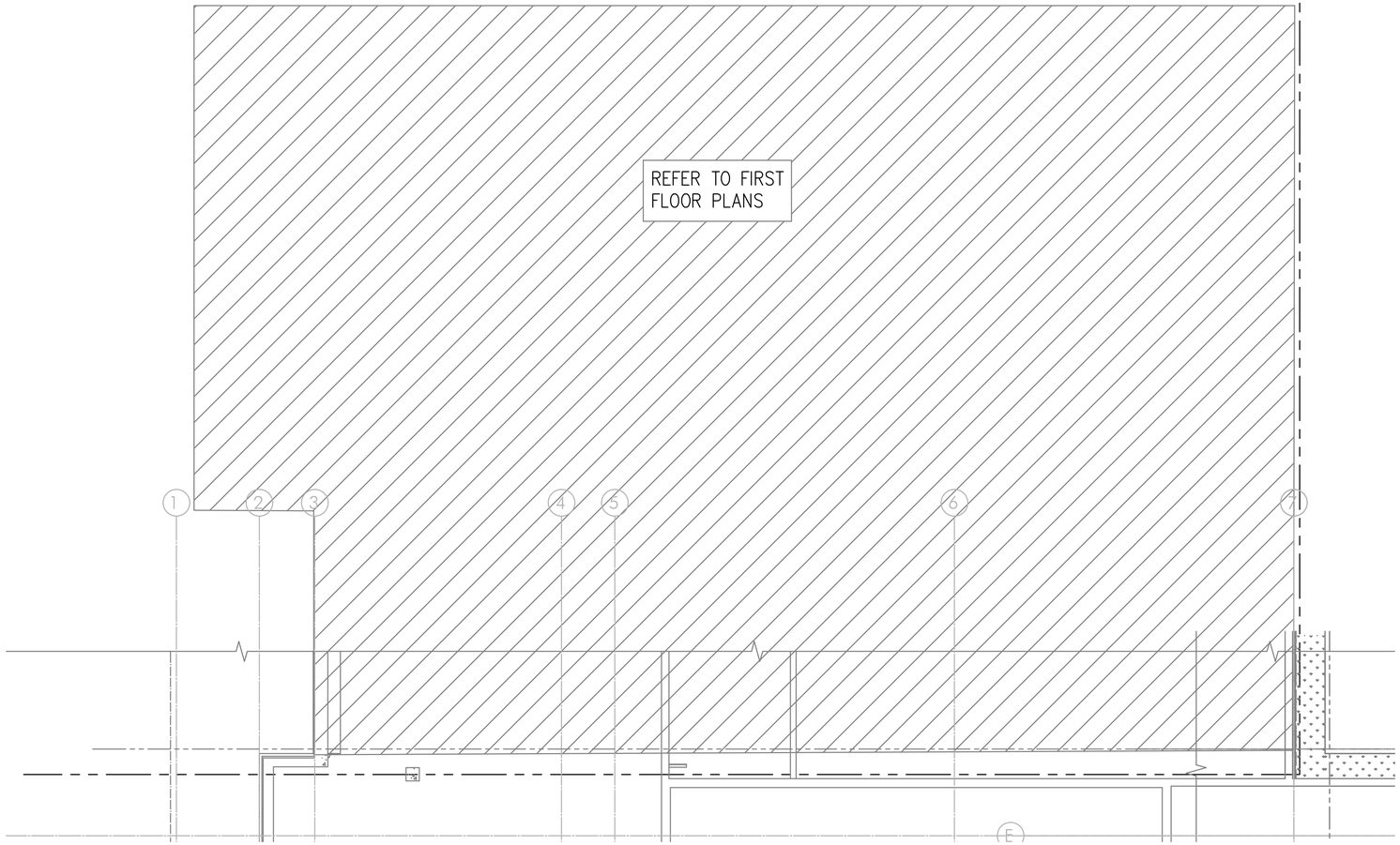
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N
E3.02 PARTIAL SECOND FLOOR POWER PLAN
SCALE: 1/8 = 1'-0"

GENERAL POWER NOTES:

A. REFER TO SHEET E1.00 FOR GENERAL POWER NOTES.

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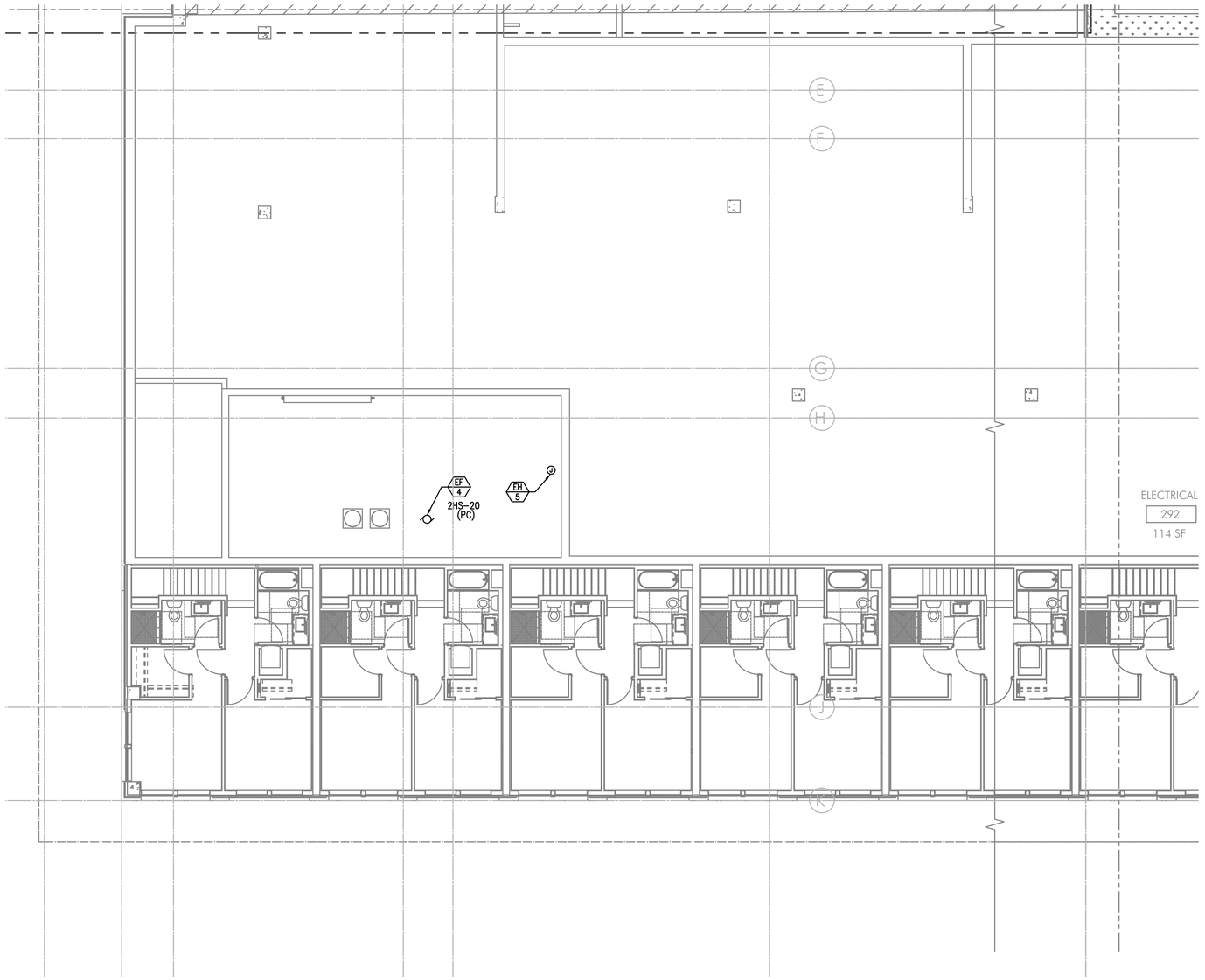
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PARTIAL SECOND FLOOR POWER PLAN
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10. PACKAGE CONCIERGE SYSTEM. MOUNT DUPLEX RECEPTACLES AT 76" AFF. CIRCUIT AS INDICATED.
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12. ELECTRICAL SERVICE METER ROOMS SHALL HAVE OUTWARD SWING DOORS EQUIPPED WITH PANIC HARDWARE. PROVIDE A KEY BOX AT THE EXTERIOR FOR CLARK PUBLIC UTILITIES 24/7 ACCESS.
13. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR DRINKING FOUNTAIN FROM PANEL 2HS. CONSULT MECHANICAL AND/OR PLUMBING CONTRACTOR FOR EXACT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH IN.
14. LOW VOLTAGE/COMMUNICATIONS SYSTEM DEMARCATION BOARD(S). COORDINATE LOCATIONS AND ELECTRICAL POWER REQUIREMENTS WITH THE TELECOM PLANS ('T' SERIES SHEETS) AND LOW VOLTAGE SYSTEMS INSTALLERS, AND PROVIDE ROUGH IN AND/OR FINAL ELECTRICAL POWER CONNECTIONS & DEVICES. REFER PANEL 2HS FOR CIRCUIT DESIGNATIONS.
15. CEILING MOUNTED 20A DUPLEX RECEPTACLE FOR SECURITY CAMERA. CONSULT ARCHITECT FOR ADDITIONAL INFORMATION. CIRCUIT AS INDICATED.
16. DEDICATED SHAFT FOR THE ROUTING OF ELECTRICAL FEEDERS FROM TENANT METERS TO RESIDENTIAL UNITS.
17. PROVIDE RECEPTACLE WITH TYPES A & C USB PORTS, LEVITON T5633–T OR APPROVED EQUAL.
18. PROVIDE ONE 20A, 120V, 1P CIRCUIT AS INDICATED, FOR ELEVATOR SMOKE CURTAINS. SMOKE CURTAINS ARE TO BE SMOKE GUARD SYSTEM MODEL 200 AND SHALL BE INSTALLED AT EACH ELEVATOR LOBBY. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE INSTALLATION WITH THE EQUIPMENT PROVIDER/INSTALLER FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO ROUGH IN. EACH SMOKE CURTAIN SHALL BE INTERLINKED WITH THE NEAREST SMOKE DETECTOR AT EACH LOCATION.
19. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL 2HS FOR THE APARTMENT ENTRY SYSTEM PRIMARY CONTROL PANEL AND PROVIDE ROUGH IN AND WIRING, AS NEEDED, TO EACH UNIT ENTRY. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
20. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL 2HS FOR THE SECURITY SYSTEM PANEL AND PROVIDE ROUGH IN AND WIRING, AS NEEDED. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
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22. AREA OF REFUGE PANEL. CONSULT FIRE ALARM PLANS ('T' SERIES SHEETS) AND PROVIDE ROUGH IN AS NEEDED.
23. PROVIDE ROUGH IN, AS NEEDED, FOR FIRE ALARM REMOTE ANNUNCIATION PANEL.
24. PROVIDE ROUGH IN, AS NEEDED, FOR AUDIO SYSTEM CONTROLS. COORDINATE EXACT LOCATION WITH THE SYSTEM INSTALLER.
25. PROVIDE ROUGH IN, AS NEEDED, FOR WIFI SYSTEM.
26. ELECTRICAL CONTRACTOR TO COORDINATE WITH LANDSCAPE PROVIDER FOR EXACT LOCATION OF POWER CONNECTIONS AS REQUIRED FOR LANDSCAPE IRRIGATION AND SHALL BE CIRCUITED FROM PANEL 2C1.
27. PROVIDE 120V TWIST TIMER SWITCH (MAX. 60 MINUTES, "NO HOLD") IN WEATHER PROOF BOX FOR GAS GRILL AND FIRE PIT IGNITER CONTROLS. CIRCUIT FROM PANEL 2C1.
28. PROVIDE EMERGENCY SHUTOFF CONTROLS FOR GAS APPLIANCES LOCATED ON TERRACE. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. SEE DETAIL 3/E1.14 FOR EMERGENCY SHUT–OFF DIAGRAM.

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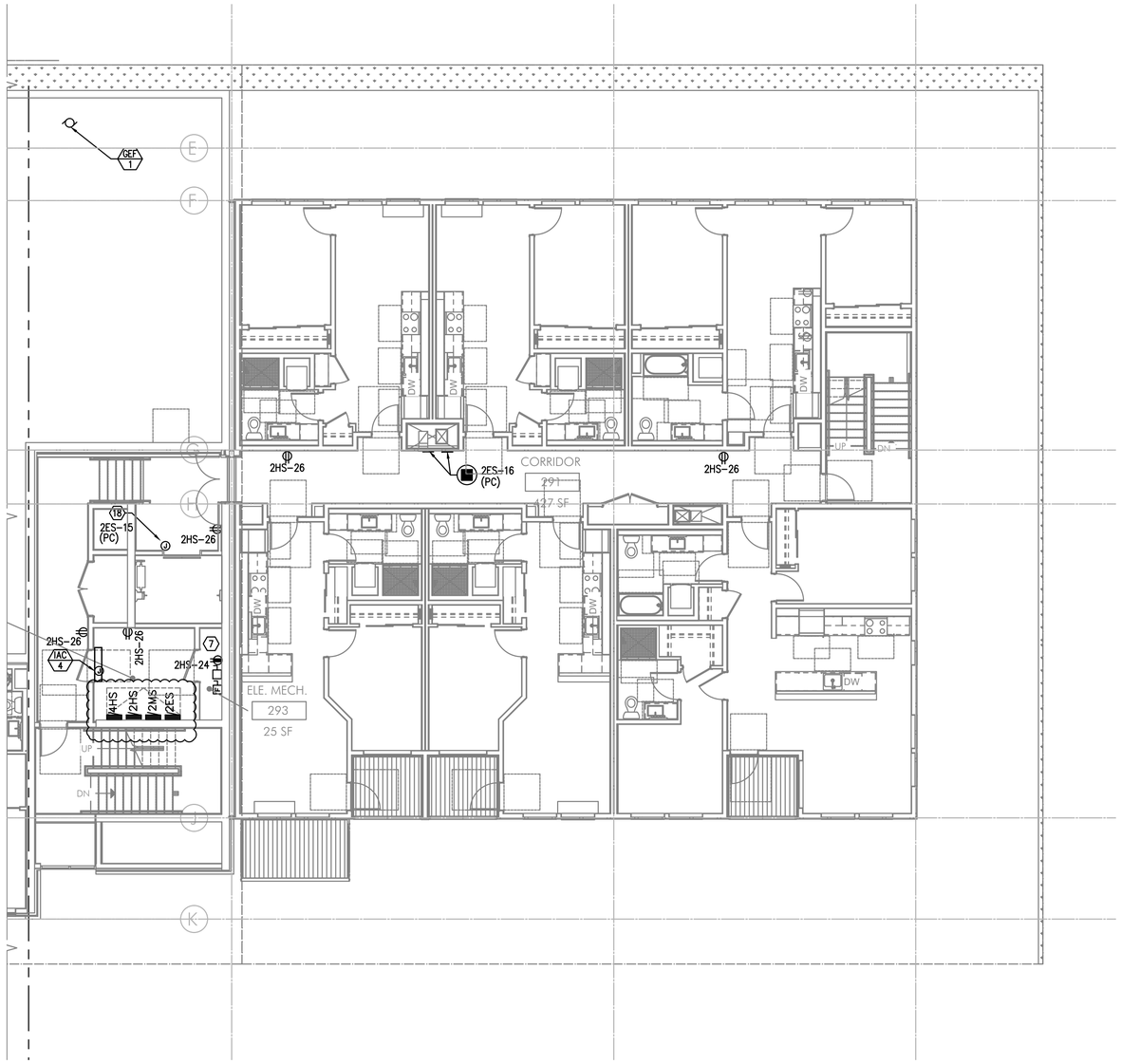
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SE / E3.02 PARTIAL SECOND FLOOR POWER PLAN

SCALE: 1/8 = 1'–0"

GENERAL POWER NOTES:

A. REFER TO SHEET E1.00 FOR GENERAL POWER NOTES.

B. REFER TO E4 SERIES SHEETS FOR TYPICAL UNIT POWER PLANS.

⬡ KEYED NOTES:

1. ROUTE (2) EMPTY 3 1/2" CONDUIT WITH PULL STRING, FROM MC3, IN CEILING ABOVE AND STUBBED INTO EACH LEASE SPACE FOR TENANT SUPPLIED BRANCH PANEL AND CAP OFF.
2. CONTINUOUS OPERATING EXHAUST FAN TO BE TIED INTO LIGHTING CIRCUIT FOR THIS AREA.
3. GENERATOR DISCONNECT. SEE ONE–LINE DIAGRAM ON SHEET E1.10.
4. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR GENERATOR REMOTE ANNUNCIATOR. REFER TO PANEL 2ES–8.
5. PROVIDE ONE 20A,120V, 1P POWER CONNECTION FOR BUILDING SIGNS. CIRCUIT AS INDICATED VIA LIGHTING CONTROL PANEL. MOUNT JUNCTION BOX TIGHT TO CEILING (AT BUILDING INTERIOR), COORDINATING EXACT LOCATION WITH SIGN INSTALLER'S SLEEVE AND PER ARCHITECT'S DIRECTION AT EACH LOCATION.
6. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL 2HS FOR BUILDING ENTRY ACCESS CONTROL SYSTEM AND PROVIDE ROUGH IN AND WIRING TO ACCESS POINTS LOCATED ON PLANS. SYSTEM HEAD–IN LOCATED IN BASEMENT MAINTENANCE ROOM. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
7. VERIFY ELEVATOR EQUIPMENT LOCATION AND ELECTRICAL REQUIREMENTS WITH ARCHITECT AND/OR ELEVATOR PROVIDER.
8. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR AUTOMATIC DOOR OPENERS. CIRCUIT AS INDICATED.
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17. PROVIDE RECEPTACLE WITH TYPES A & C USB PORTS, LEVITON T5633–T OR APPROVED EQUAL.
18. PROVIDE ONE 20A, 120V, 1P CIRCUIT AS INDICATED, FOR ELEVATOR SMOKE CURTAINS. SMOKE CURTAINS ARE TO BE SMOKE GUARD SYSTEM MODEL 200 AND SHALL BE INSTALLED AT EACH ELEVATOR LOBBY. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE INSTALLATION WITH THE EQUIPMENT PROVIDER/INSTALLER FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO ROUGH IN. EACH SMOKE CURTAIN SHALL BE INTERLINKED WITH THE NEAREST SMOKE DETECTOR AT EACH LOCATION.
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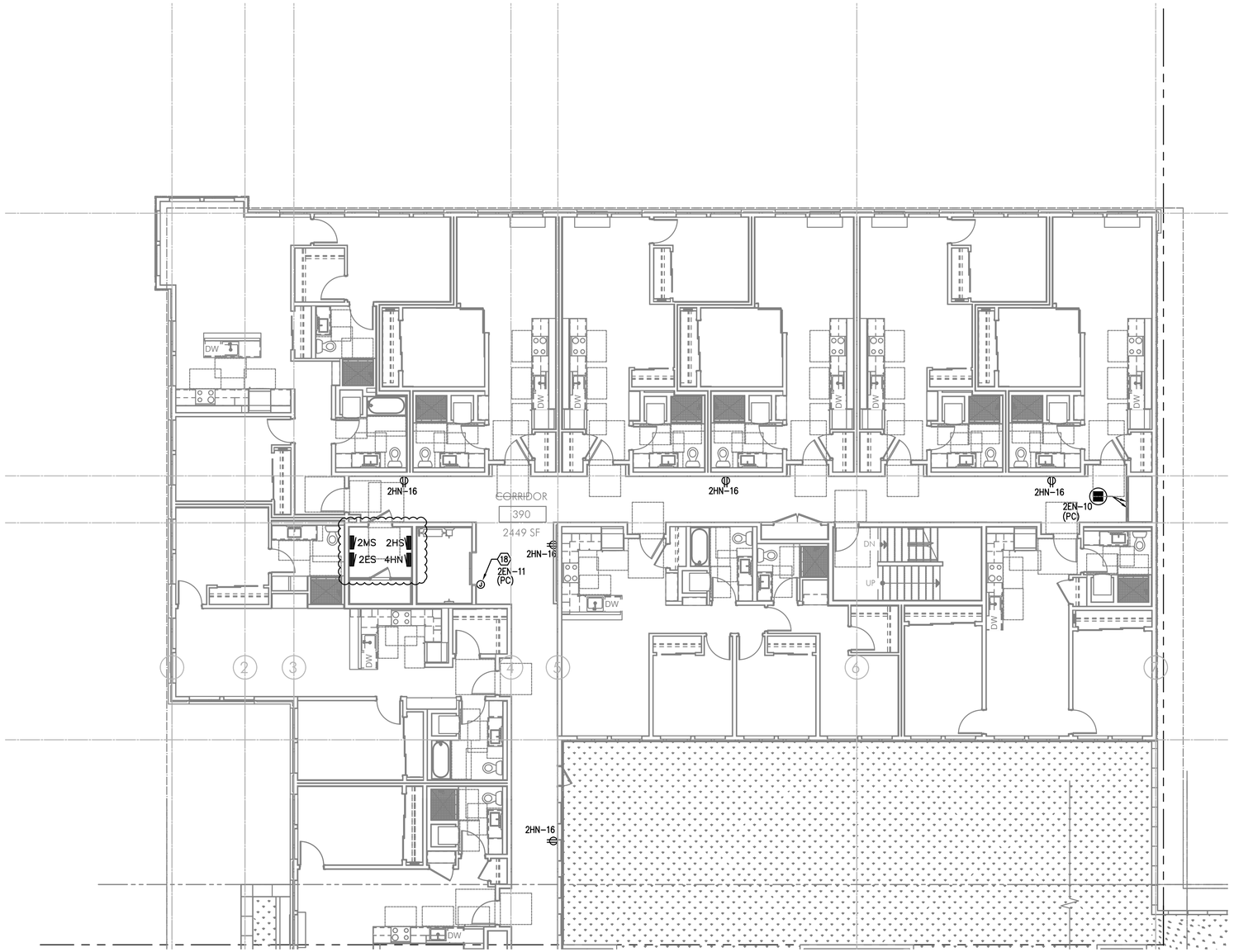
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PARTIAL THIRD FLOOR POWER PLAN
SCALE: 1/8 = 1'-0"

GENERAL POWER NOTES:

A. REFER TO SHEET E1.00 FOR GENERAL POWER NOTES.

B. REFER TO E4 SERIES SHEETS FOR TYPICAL UNIT POWER PLANS.

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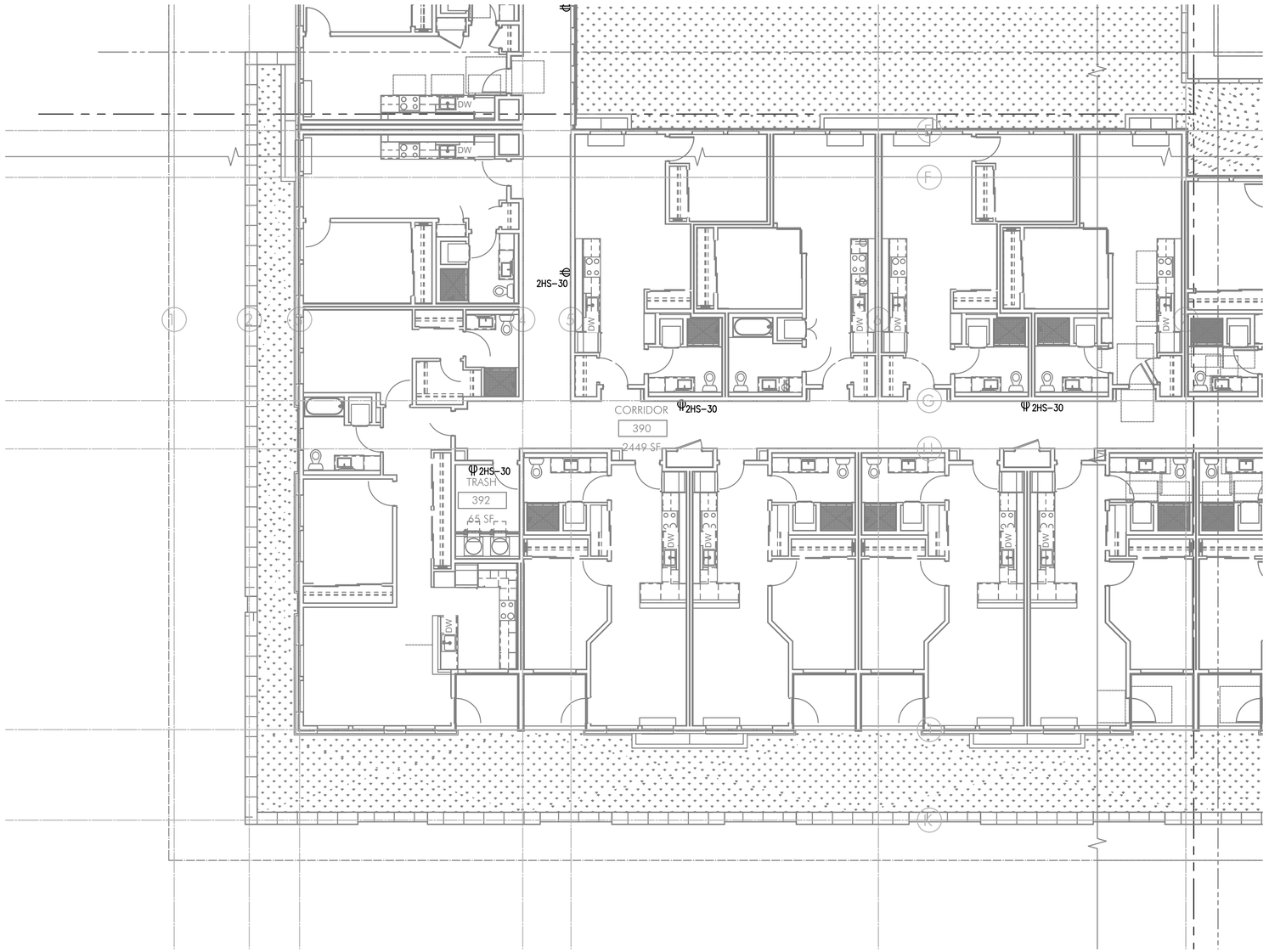
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S / E3.03 PARTIAL THIRD FLOOR POWER PLAN
SCALE: 1/8 = 1'-0"

GENERAL POWER NOTES:

A. REFER TO SHEET E1.00 FOR GENERAL POWER NOTES.

B. REFER TO E4 SERIES SHEETS FOR TYPICAL UNIT POWER PLANS.

⬡ KEYED NOTES:

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2. CONTINUOUS OPERATING EXHAUST FAN TO BE TIED INTO LIGHTING CIRCUIT FOR THIS AREA.
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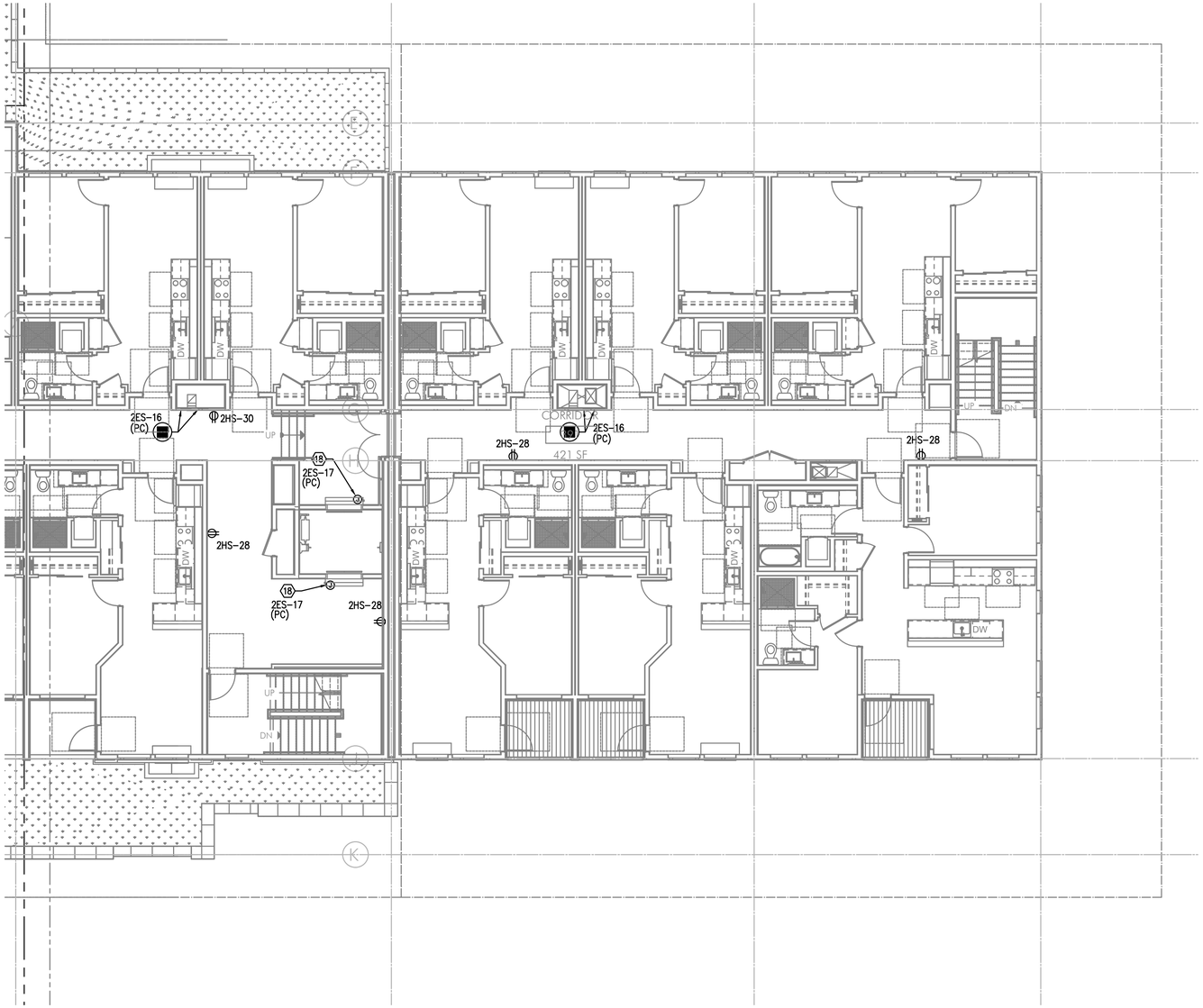
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SE / E3.03 PARTIAL THIRD FLOOR POWER PLAN

SCALE: 1/8 = 1'-0"

GENERAL POWER NOTES:

A. REFER TO SHEET E1.00 FOR GENERAL POWER NOTES.

B. REFER TO E4 SERIES SHEETS FOR TYPICAL UNIT POWER PLANS.

⬡ KEYED NOTES:

1. ROUTE (2) EMPTY 3 1/2" CONDUIT WITH PULL STRING, FROM MC3, IN CEILING ABOVE AND STUBBED INTO EACH LEASE SPACE FOR TENANT SUPPLIED BRANCH PANEL AND CAP OFF.
2. CONTINUOUS OPERATING EXHAUST FAN TO BE TIED INTO LIGHTING CIRCUIT FOR THIS AREA.
3. GENERATOR DISCONNECT. SEE ONE-LINE DIAGRAM ON SHEET E1.10.
4. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR GENERATOR REMOTE ANNUNCIATOR. REFER TO PANEL 2ES-8.
5. PROVIDE ONE 20A,120V, 1P POWER CONNECTION FOR BUILDING SIGNS. CIRCUIT AS INDICATED VIA LIGHTING CONTROL PANEL. MOUNT JUNCTION BOX TIGHT TO CEILING (AT BUILDING INTERIOR), COORDINATING EXACT LOCATION WITH SIGN INSTALLER'S SLEEVE AND PER ARCHITECT'S DIRECTION AT EACH LOCATION.
6. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL 2HS FOR BUILDING ENTRY ACCESS CONTROL SYSTEM AND PROVIDE ROUGH IN AND WIRING TO ACCESS POINTS LOCATED ON PLANS. SYSTEM HEAD-IN LOCATED IN BASEMENT MAINTENANCE ROOM. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
7. VERIFY ELEVATOR EQUIPMENT LOCATION AND ELECTRICAL REQUIREMENTS WITH ARCHITECT AND/OR ELEVATOR PROVIDER.
8. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR AUTOMATIC DOOR OPENERS. CIRCUIT AS INDICATED.
9. PROVIDE ONE 20A, 120V, 1P DEDICATED CIRCUIT FROM PANEL H1, CKT 29 FOR DAS SYSTEM.
10. PACKAGE CONCIERGE SYSTEM. MOUNT DUPLEX RECEPTACLES AT 76" AFF. CIRCUIT AS INDICATED.
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15. CEILING MOUNTED 20A DUPLEX RECEPTACLE FOR SECURITY CAMERA. CONSULT ARCHITECT FOR ADDITIONAL INFORMATION. CIRCUIT AS INDICATED.
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28. PROVIDE EMERGENCY SHUTOFF CONTROLS FOR GAS APPLIANCES LOCATED ON TERRACE. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. SEE DETAIL 3/E1.14 FOR EMERGENCY SHUT-OFF DIAGRAM.

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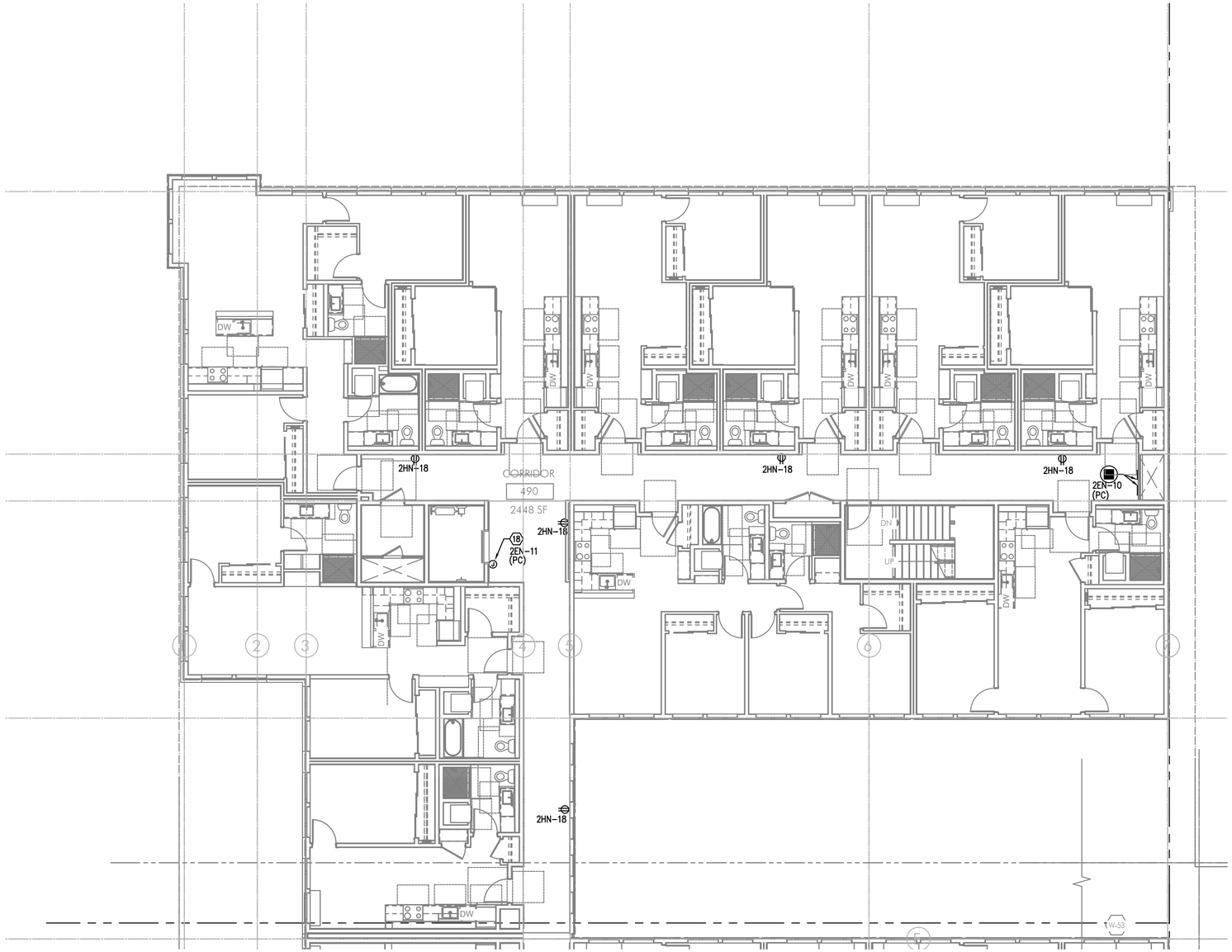
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E3.04 PARTIAL FOURTH FLOOR POWER PLAN
SCALE: 1/8 = 1'-0"

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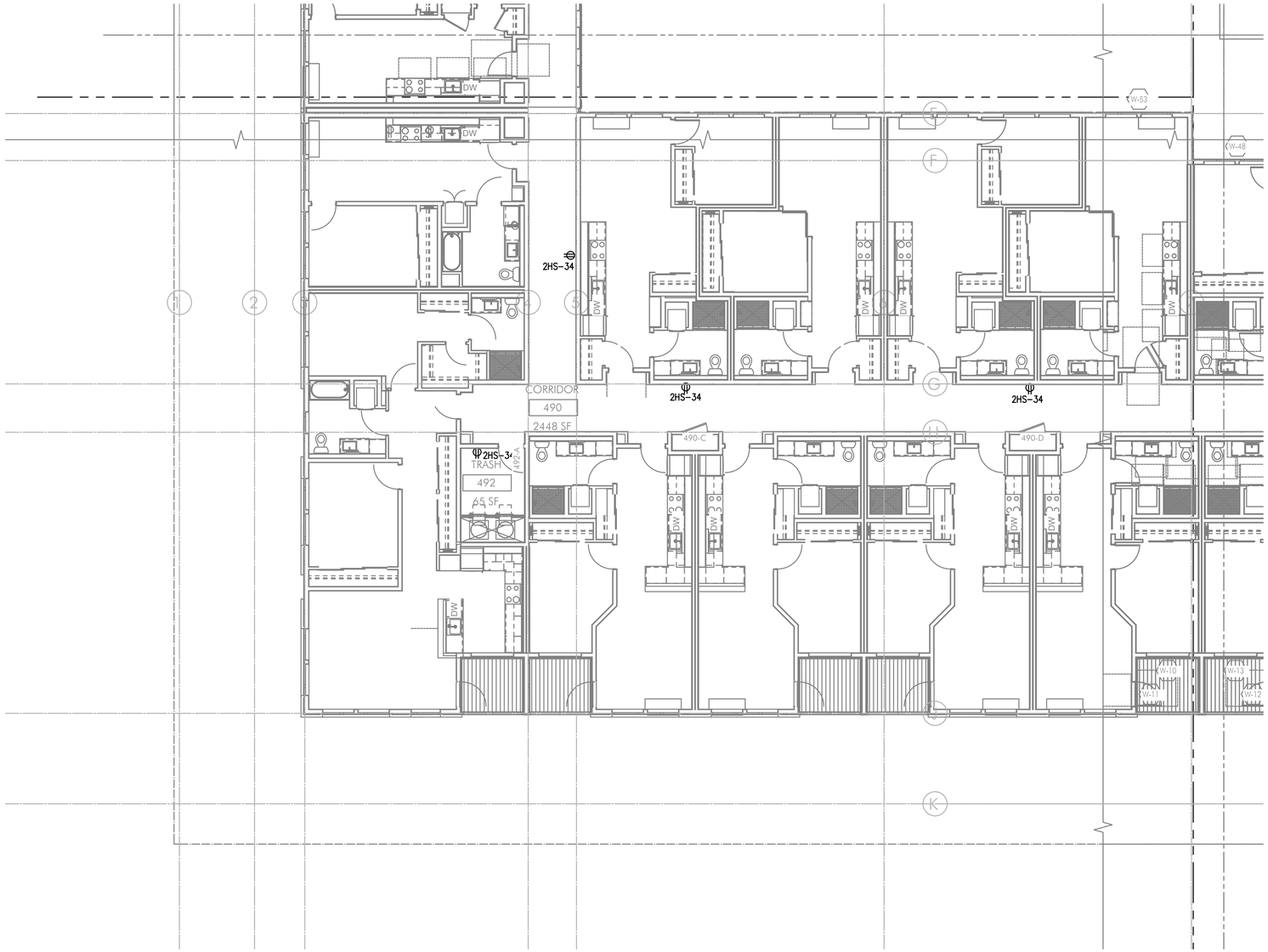
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SHEET:
N
E3.04

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S
E3.04
PARTIAL FOURTH FLOOR POWER PLAN
SCALE: 1/8 = 1'-0"

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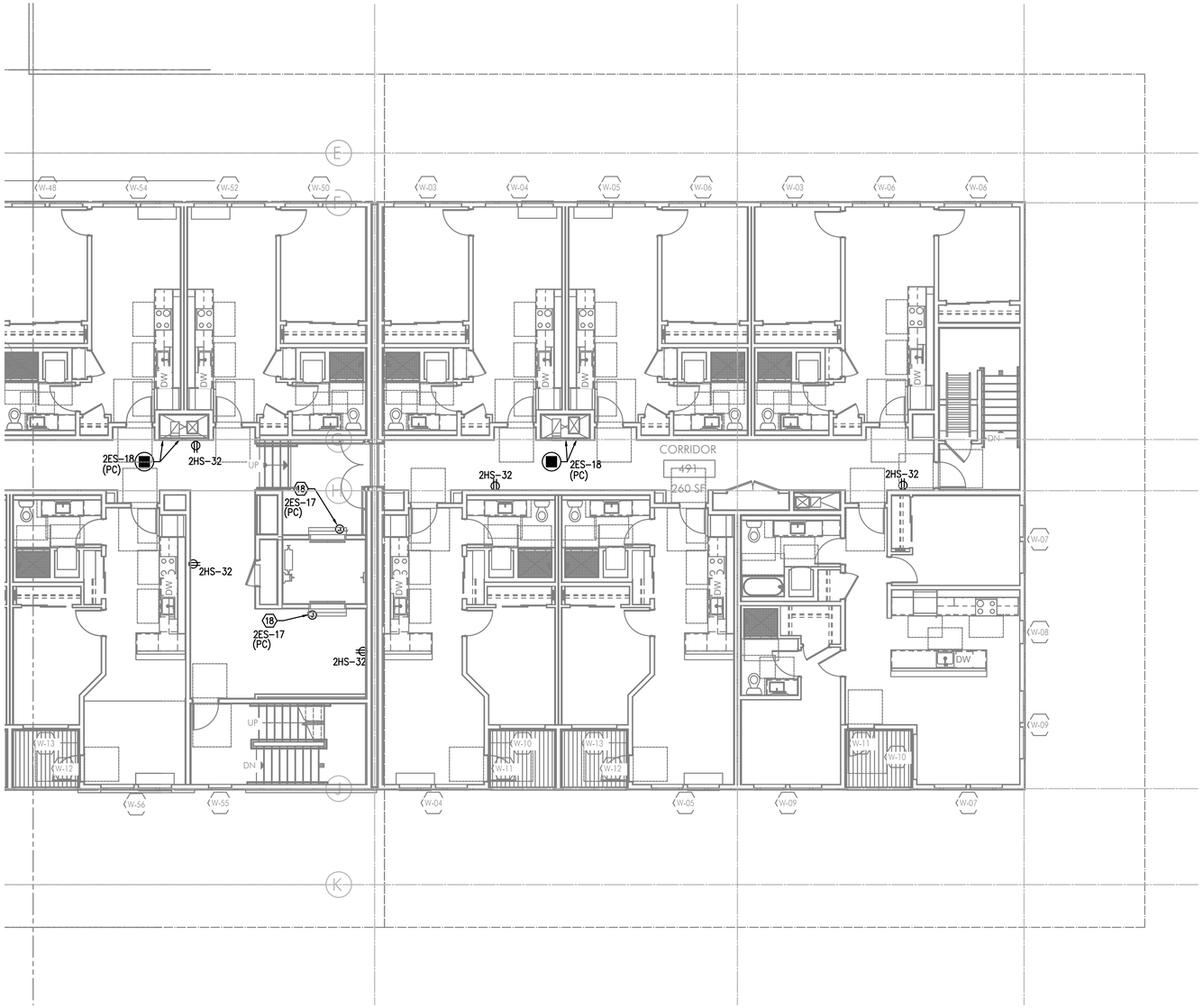
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SE / E3.04 PARTIAL FOURTH FLOOR POWER PLAN
SCALE: 1/8 = 1'-0"

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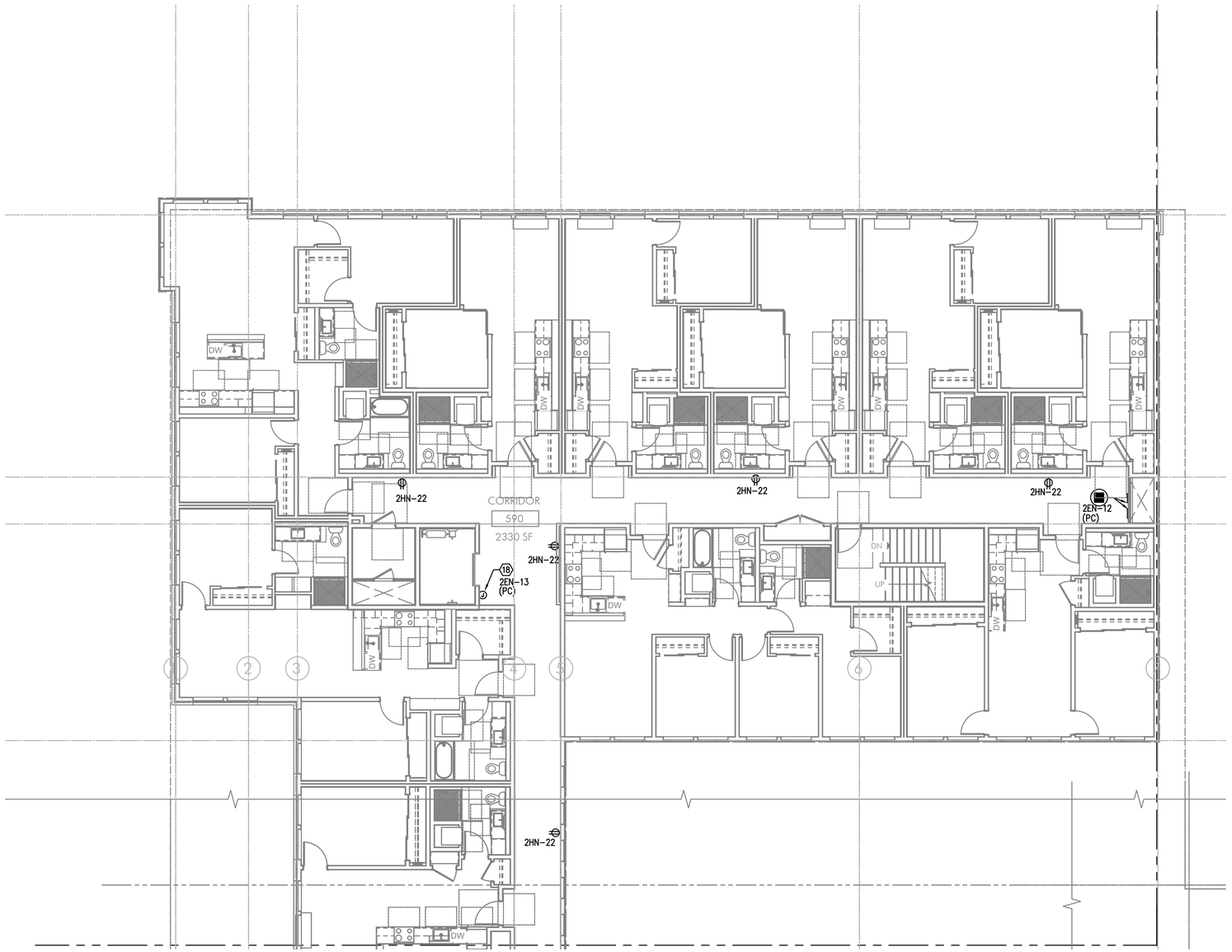
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SHEET:
SE E3.04

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N
E3.05 PARTIAL FIFTH FLOOR POWER PLAN
SCALE: 1/8 = 1'-0"

GENERAL POWER NOTES:

A. REFER TO SHEET E1.00 FOR GENERAL POWER NOTES.

B. REFER TO E4 SERIES SHEETS FOR TYPICAL UNIT POWER PLANS.

⬡ KEYED NOTES:

1. ROUTE (2) EMPTY 3 1/2" CONDUIT WITH PULL STRING, FROM MC3, IN CEILING ABOVE AND STUBBED INTO EACH LEASE SPACE FOR TENANT SUPPLIED BRANCH PANEL AND CAP OFF.
2. CONTINUOUS OPERATING EXHAUST FAN TO BE TIED INTO LIGHTING CIRCUIT FOR THIS AREA.
3. GENERATOR DISCONNECT. SEE ONE-LINE DIAGRAM ON SHEET E1.10.
4. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR GENERATOR REMOTE ANNUNCIATOR. REFER TO PANEL 2ES-8.
5. PROVIDE ONE 20A,120V, 1P POWER CONNECTION FOR BUILDING SIGNS. CIRCUIT AS INDICATED VIA LIGHTING CONTROL PANEL. MOUNT JUNCTION BOX TIGHT TO CEILING (AT BUILDING INTERIOR), COORDINATING EXACT LOCATION WITH SIGN INSTALLER'S SLEEVE AND PER ARCHITECT'S DIRECTION AT EACH LOCATION.
6. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL 2HS FOR BUILDING ENTRY ACCESS CONTROL SYSTEM AND PROVIDE ROUGH IN AND WIRING TO ACCESS POINTS LOCATED ON PLANS. SYSTEM HEAD-IN LOCATED IN BASEMENT MAINTENANCE ROOM. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
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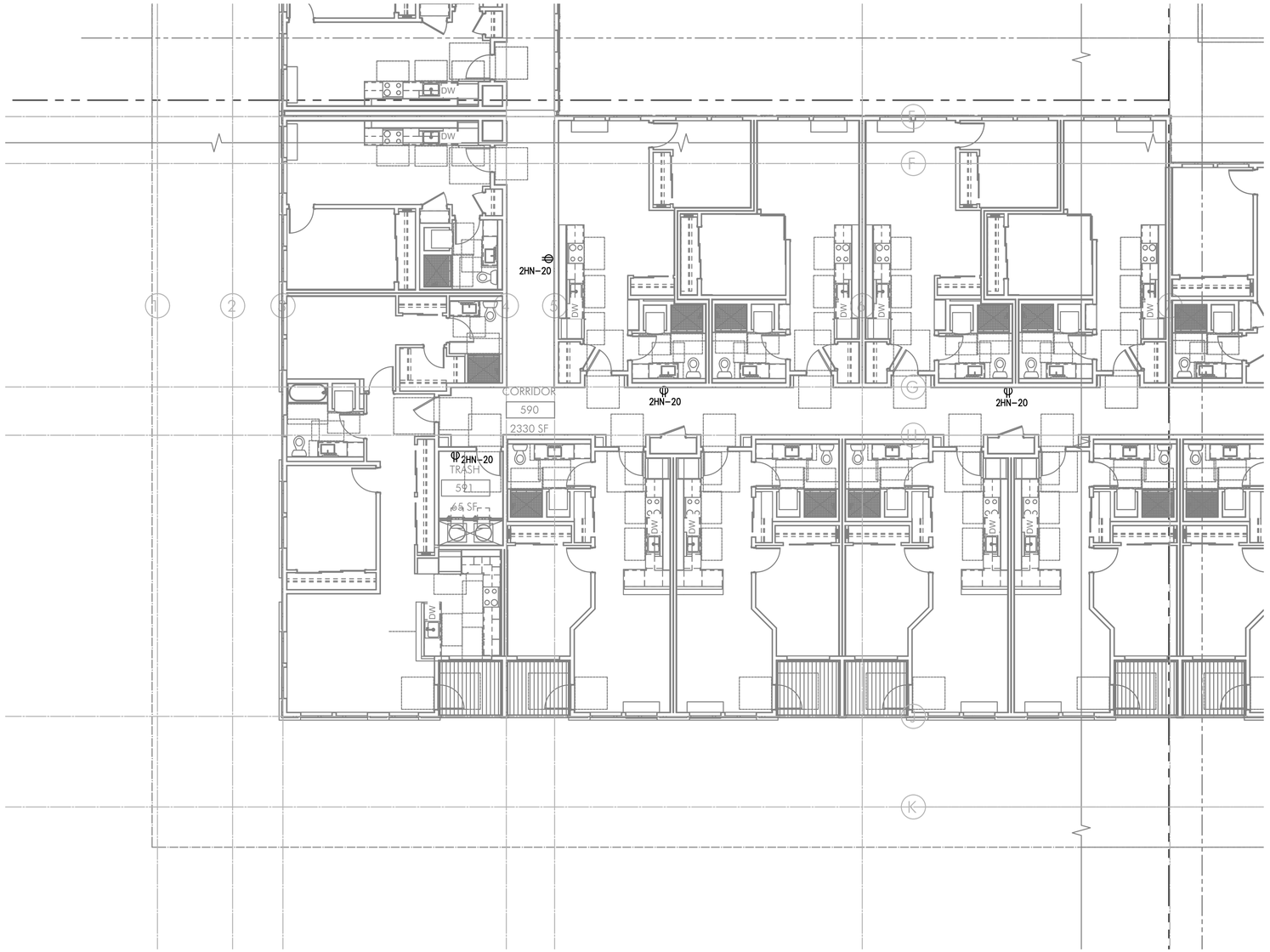
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S
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PARTIAL FIFTH FLOOR POWER PLAN
SCALE: 1/8 = 1'-0"

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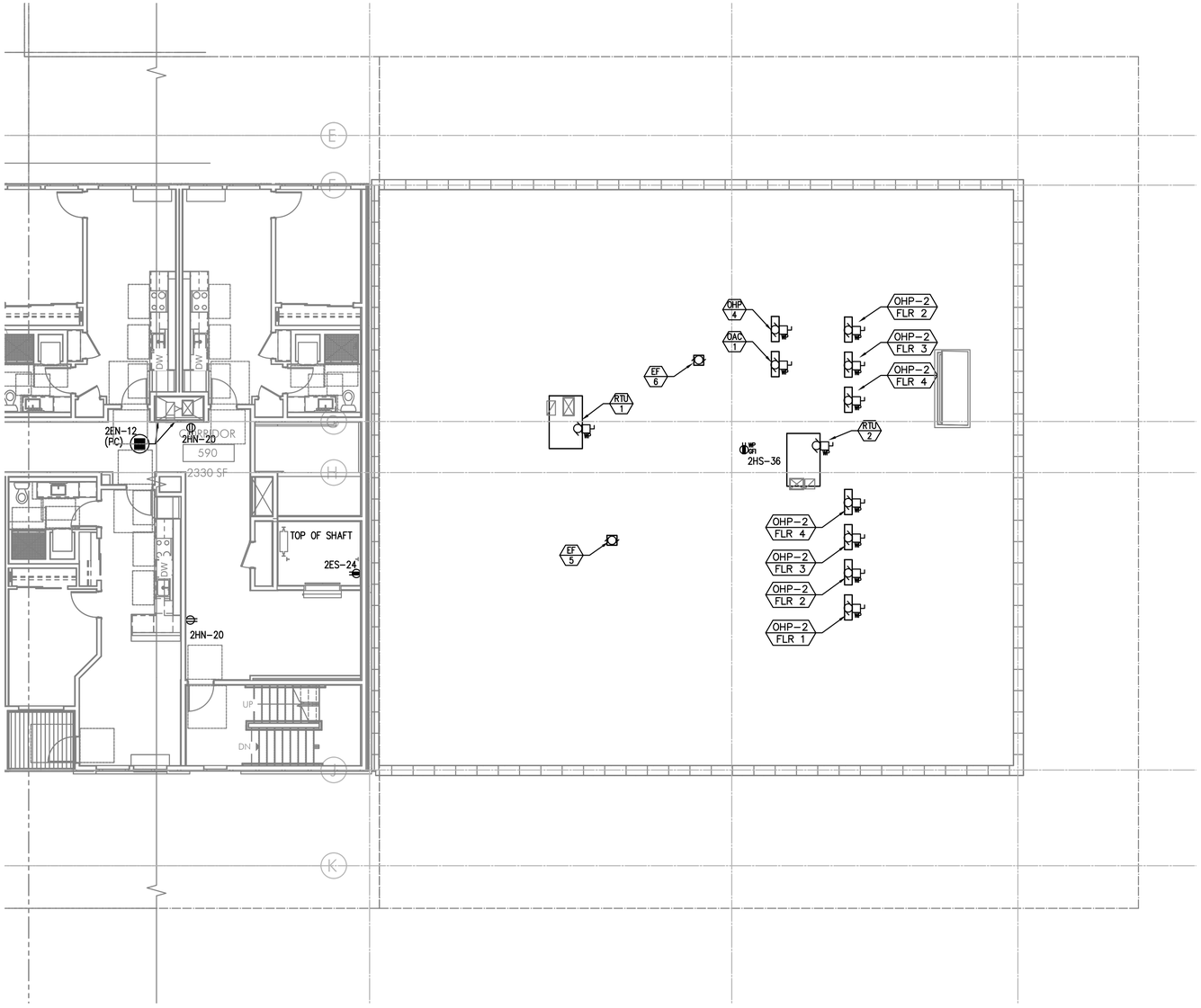
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SE / E3.05 PARTIAL FIFTH FLOOR POWER PLAN

SCALE: 1/8 = 1'-0"

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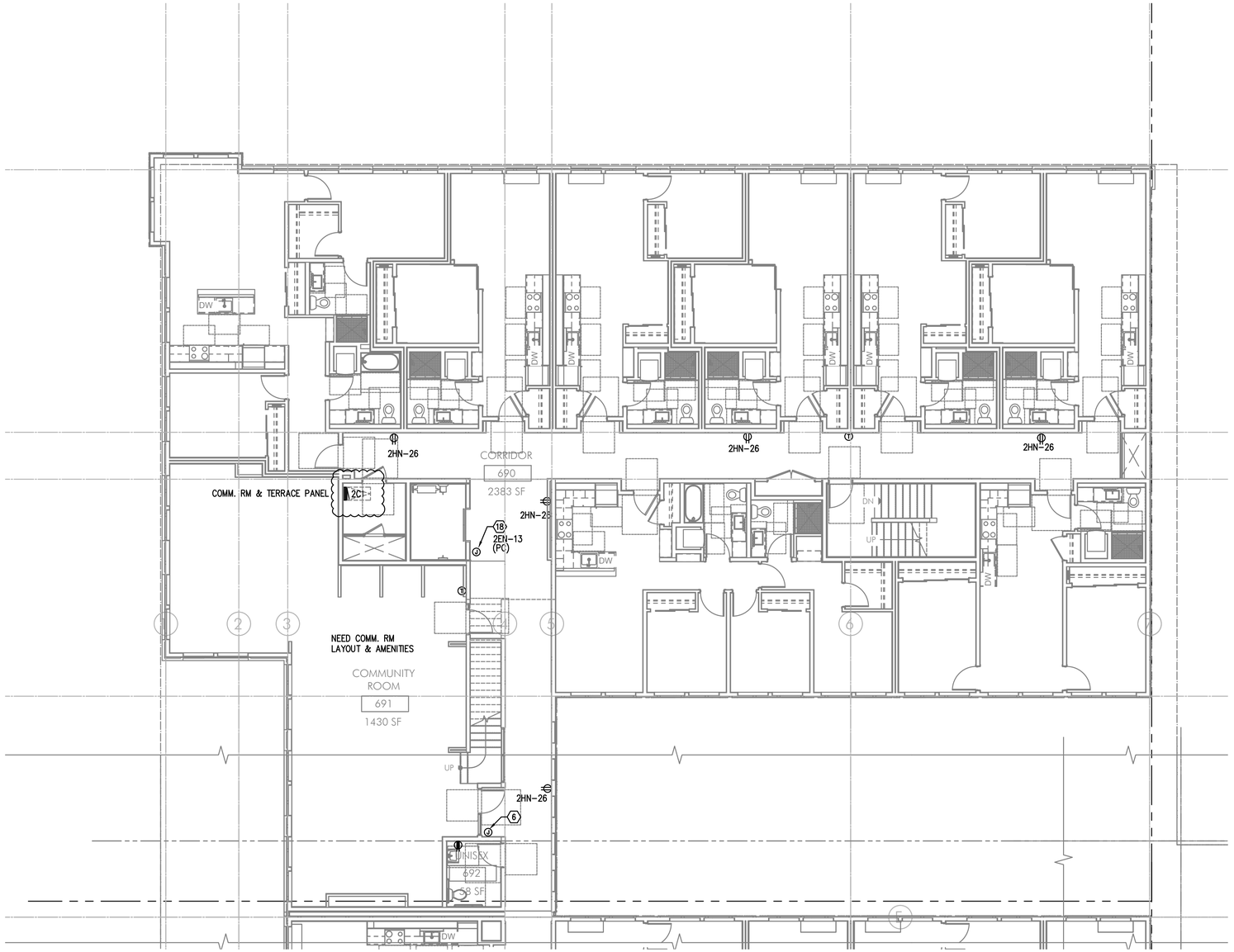
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N
E3.06
PARTIAL SIXTH FLOOR POWER PLAN
SCALE: 1/8 = 1'-0"

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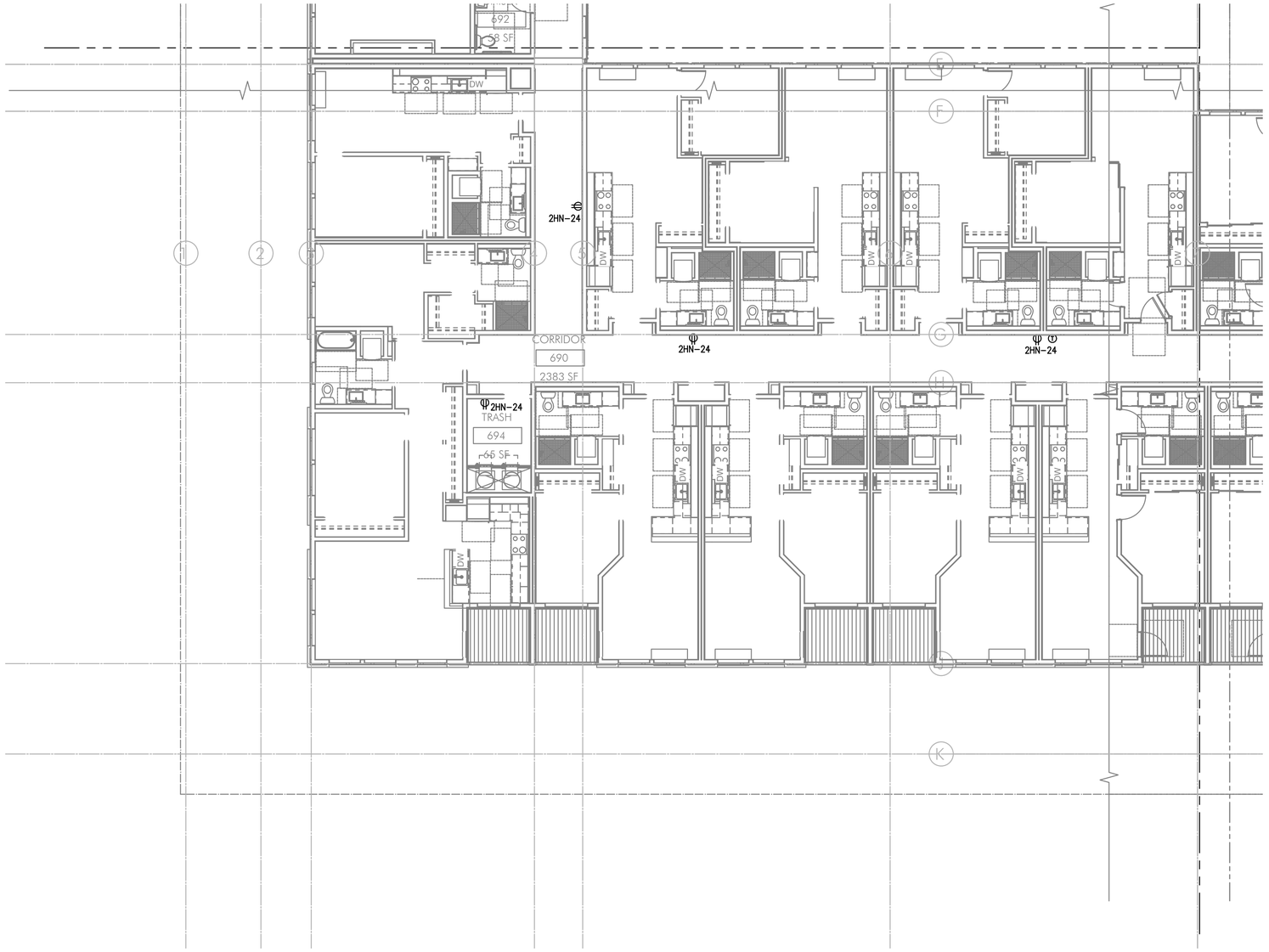
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S
E3.06
PARTIAL SIXTH FLOOR POWER PLAN
SCALE: 1/8 = 1'-0"

GENERAL POWER NOTES:

A. REFER TO SHEET E1.00 FOR GENERAL POWER NOTES.

B. REFER TO E4 SERIES SHEETS FOR TYPICAL UNIT POWER PLANS.

⬡ KEYED NOTES:

1. ROUTE (2) EMPTY 3 1/2" CONDUIT WITH PULL STRING, FROM MC3, IN CEILING ABOVE AND STUBBED INTO EACH LEASE SPACE FOR TENANT SUPPLIED BRANCH PANEL AND CAP OFF.
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3. GENERATOR DISCONNECT. SEE ONE-LINE DIAGRAM ON SHEET E1.10.
4. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR GENERATOR REMOTE ANNUNCIATOR. REFER TO PANEL 2ES-8.
5. PROVIDE ONE 20A,120V, 1P POWER CONNECTION FOR BUILDING SIGNS. CIRCUIT AS INDICATED VIA LIGHTING CONTROL PANEL. MOUNT JUNCTION BOX TIGHT TO CEILING (AT BUILDING INTERIOR), COORDINATING EXACT LOCATION WITH SIGN INSTALLER'S SLEEVE AND PER ARCHITECT'S DIRECTION AT EACH LOCATION.
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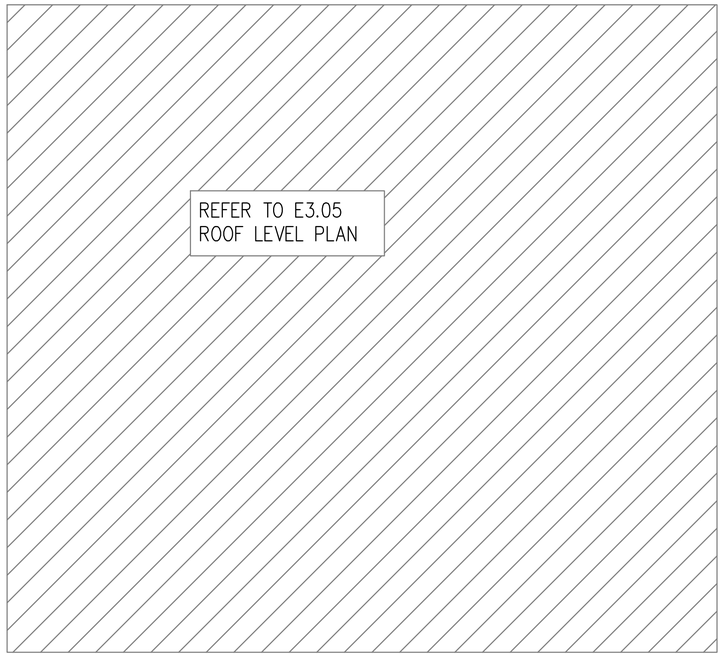
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SE / E3.06 PARTIAL SIXTH FLOOR POWER PLAN
SCALE: 1/8 = 1'-0"

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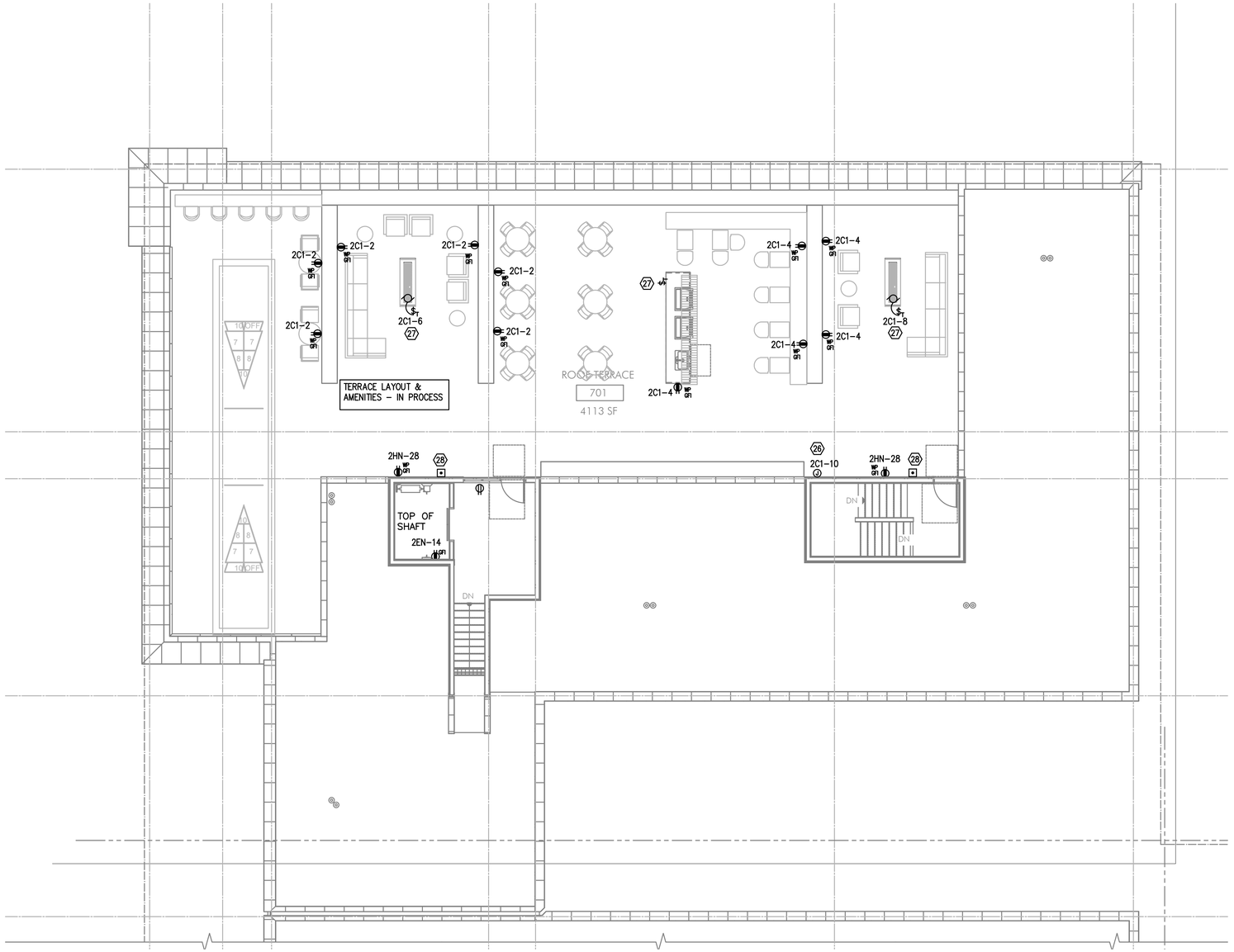
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N
E3.07 PARTIAL ROOF LEVEL POWER PLAN
SCALE: 1/8 = 1'-0"

GENERAL POWER NOTES:

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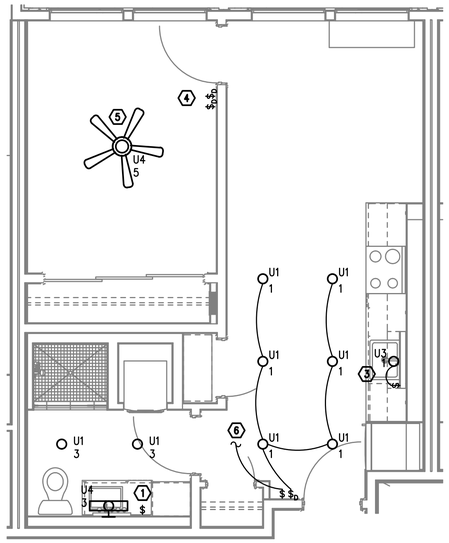
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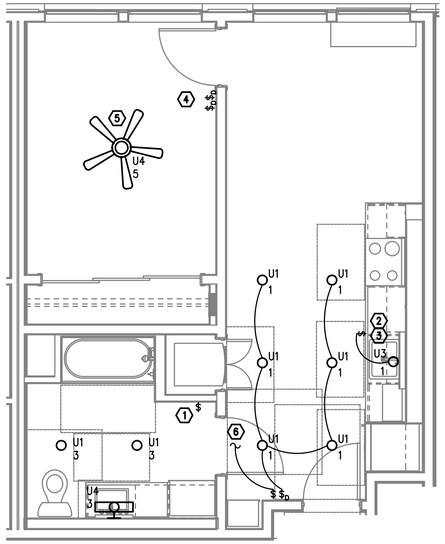
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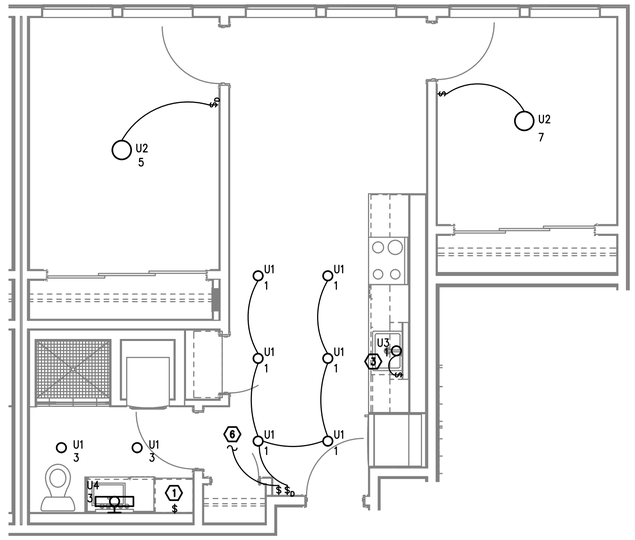
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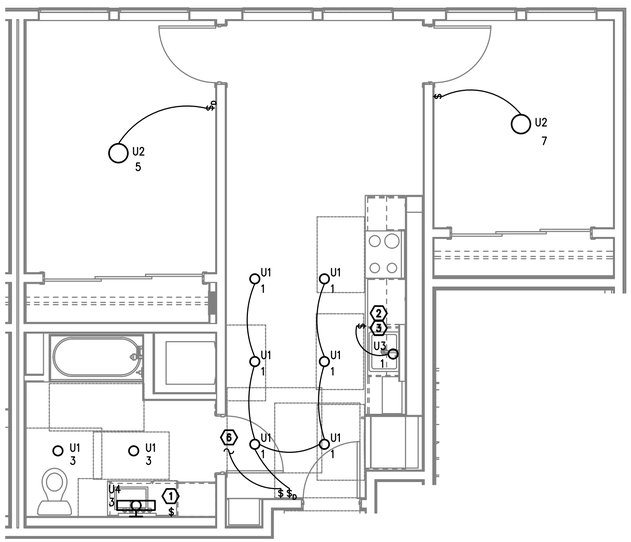
1 E4.01 UNIT TYPE 'A' – LIGHTING PLAN
1/4" = 1'-0"



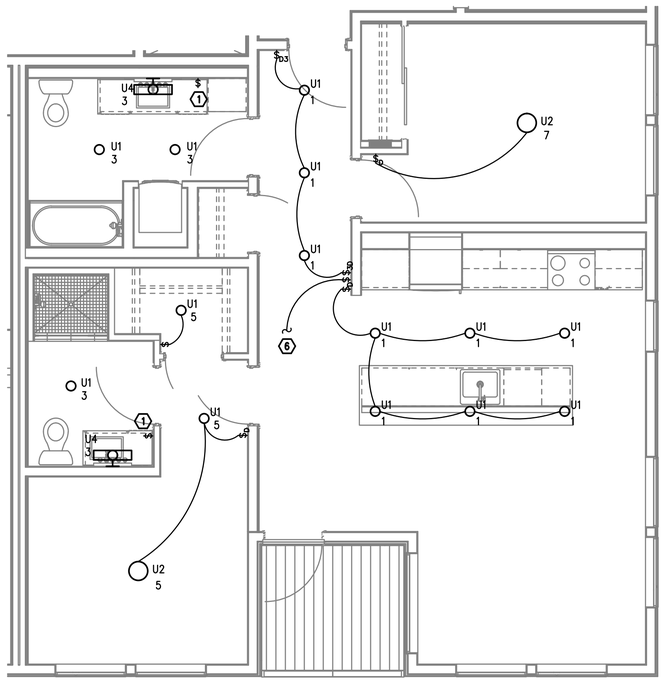
ACCESSIBLE
2 E4.01 UNIT TYPE 'A' – LIGHTING PLAN
1/4" = 1'-0"



3 E4.01 UNIT TYPE 'B' – LIGHTING PLAN
1/4" = 1'-0"



ACCESSIBLE
4 E4.01 UNIT TYPE 'B' – LIGHTING PLAN
1/4" = 1'-0"



5 E4.01 UNIT TYPE 'C' – LIGHTING PLAN
1/4" = 1'-0"

GENERAL NOTES:

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

B. REFER TO SHEET E1.14 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

C. ALL LIGHT SWITCHES SHALL BE DIMMER 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.

KEYED NOTES:

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

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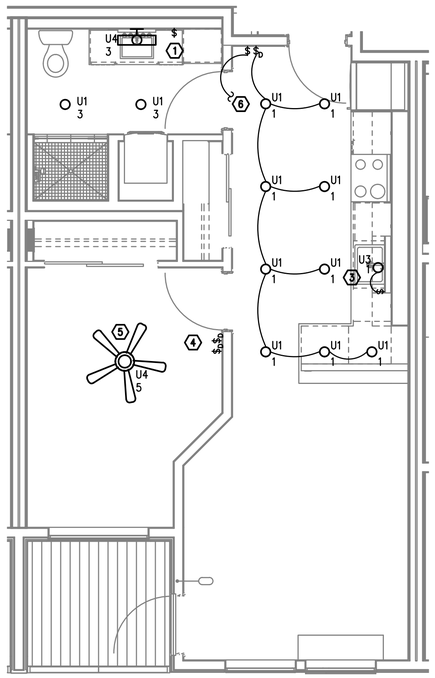
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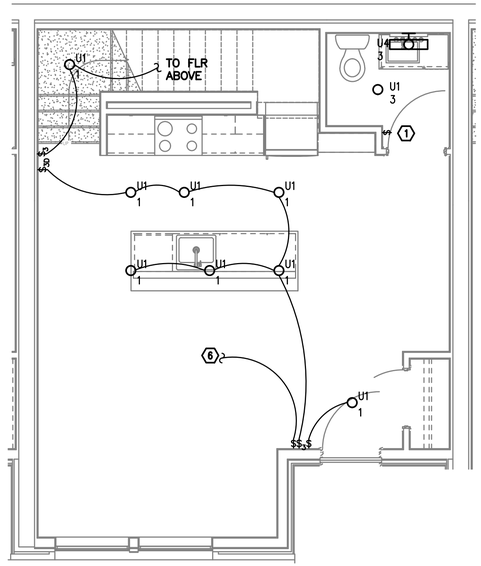
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SHEET:
E4.01

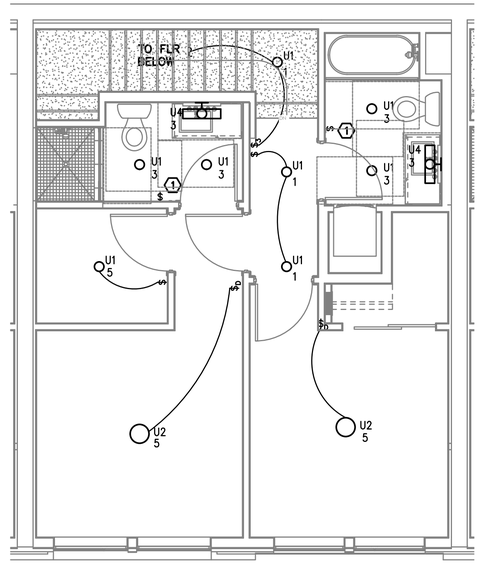
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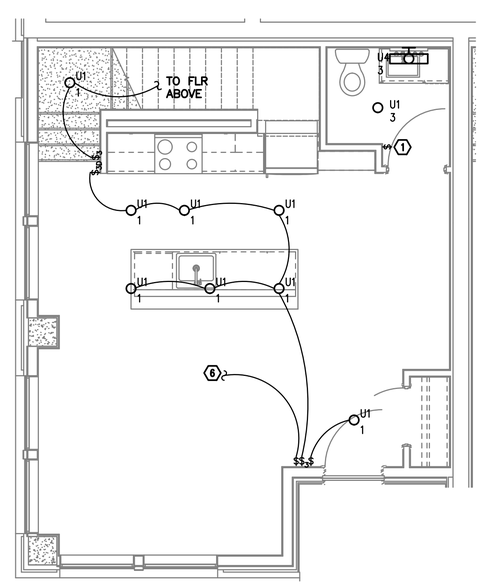
1 E4.02 UNIT TYPE 'D' – LIGHTING PLAN
1/4" = 1'–0"



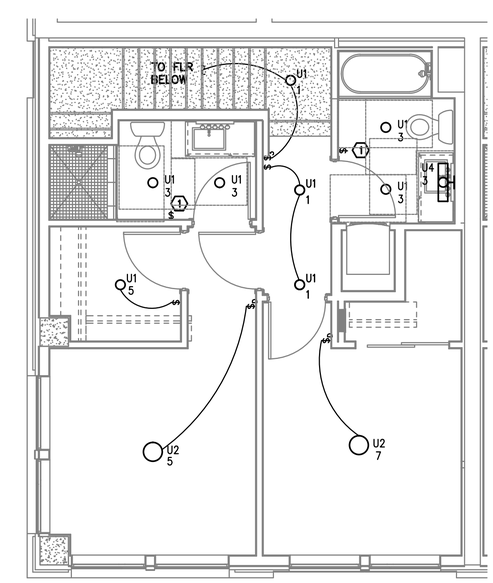
2 E4.02 UNIT TYPE 'E' LEVEL 1 LIGHTING PLAN
1/4" = 1'–0"



3 E4.02 UNIT TYPE 'E' LEVEL 2 LIGHTING PLAN
1/4" = 1'–0"



4 E4.02 UNIT TYPE 'F' LEVEL 1 LIGHTING PLAN
1/4" = 1'–0"



5 E4.02 UNIT TYPE 'F' LEVEL 2 LIGHTING PLAN
1/4" = 1'–0"

GENERAL NOTES:

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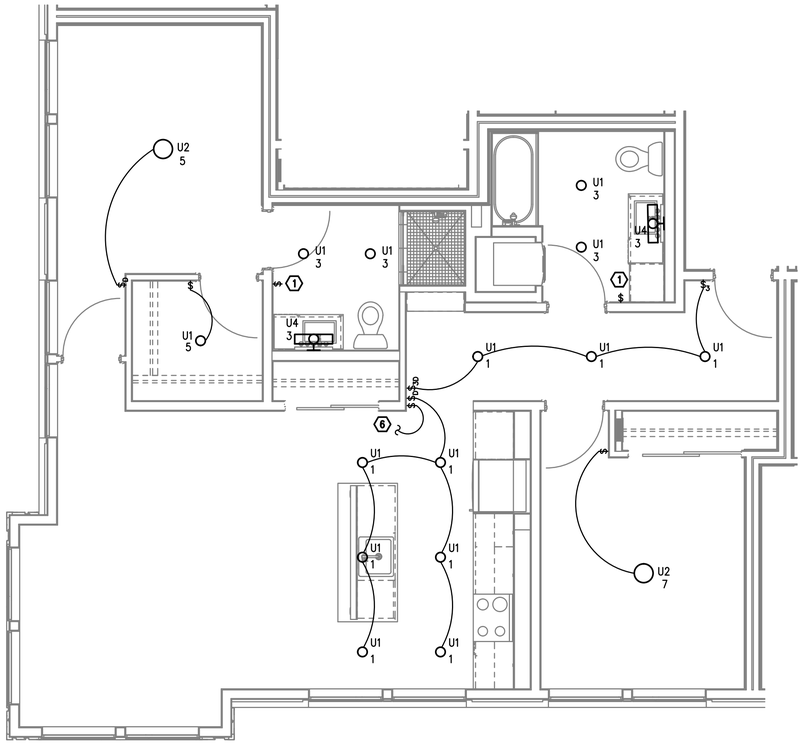
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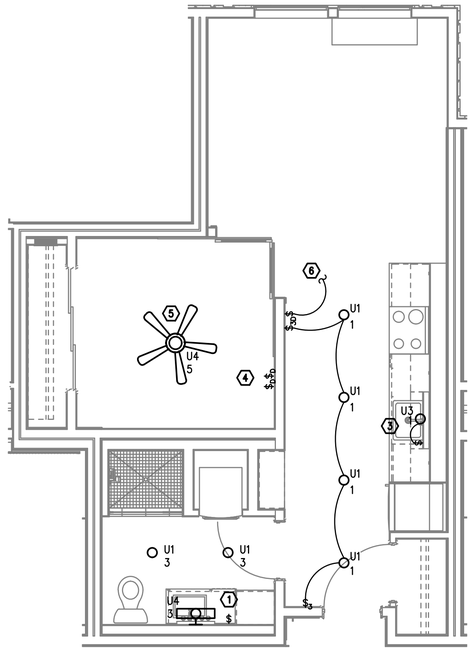
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SHEET:
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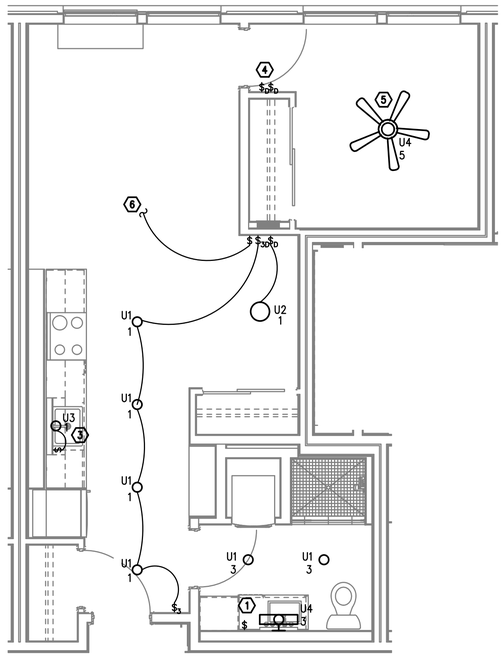
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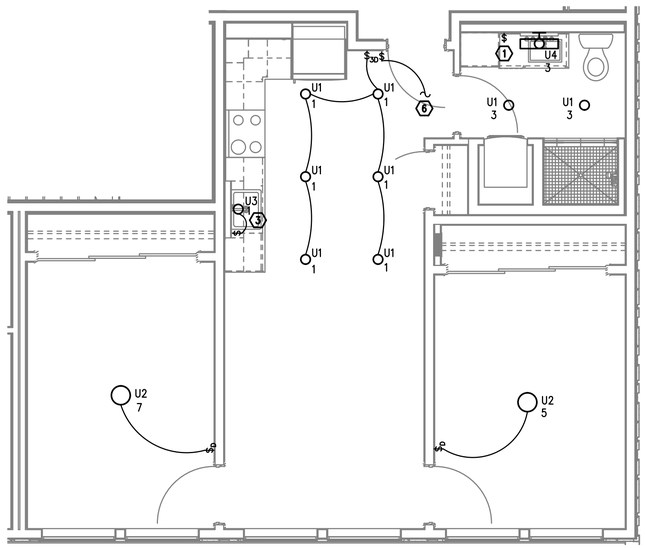
1 E4.03 UNIT TYPE 'G' – LIGHTING PLAN
1/4" = 1'-0"



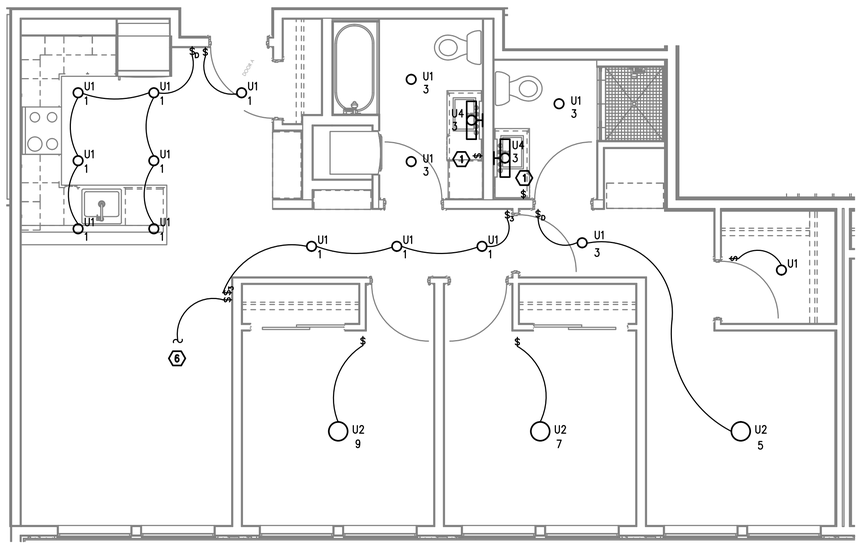
2 E4.03 UNIT TYPE 'H' – LIGHTING PLAN
1/4" = 1'-0"



3 E4.03 UNIT TYPE 'I' – LIGHTING PLAN
1/4" = 1'-0"



4 E4.03 UNIT TYPE 'J' – LIGHTING PLAN
1/4" = 1'-0"



5 E4.03 UNIT TYPE 'K' – LIGHTING PLAN
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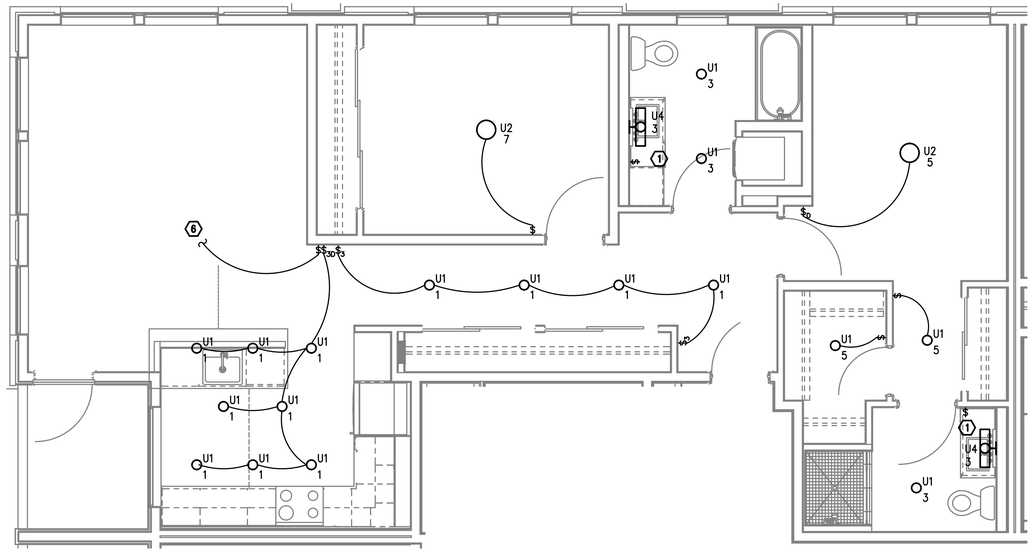
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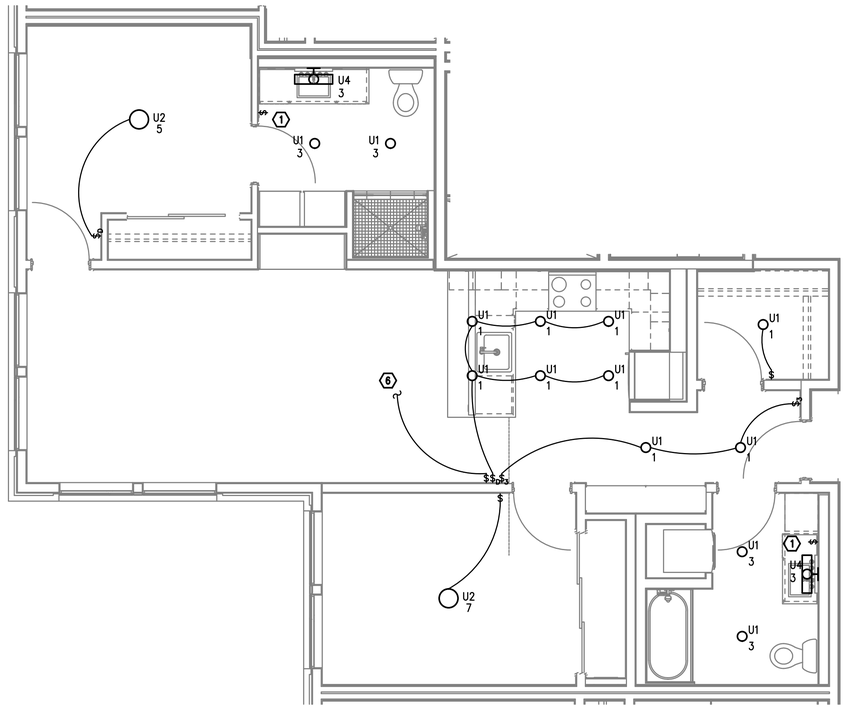
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SHEET: E4.03

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1 E4.04 UNIT TYPE 'L' – LIGHTING PLAN
1/4" = 1'–0"



2 E4.04 UNIT TYPE 'M' – LIGHTING PLAN
1/4" = 1'–0"

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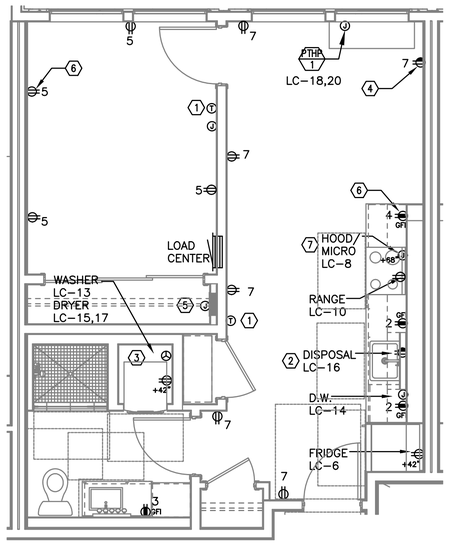
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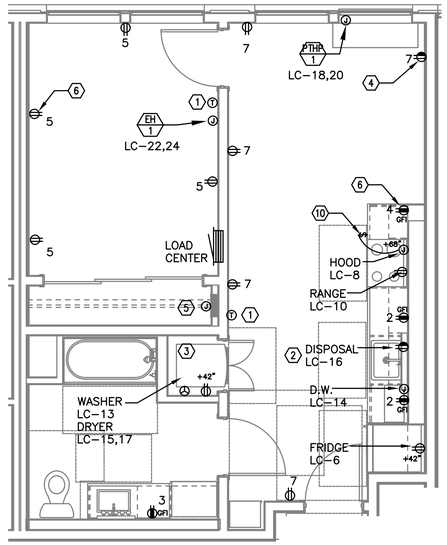
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SHEET:
E4.04

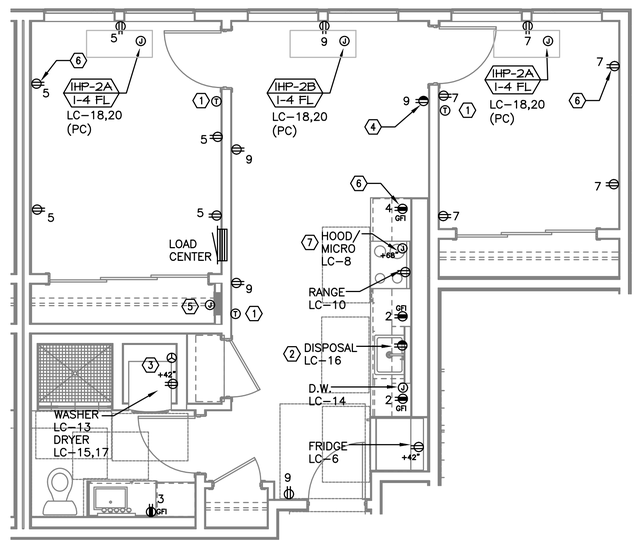
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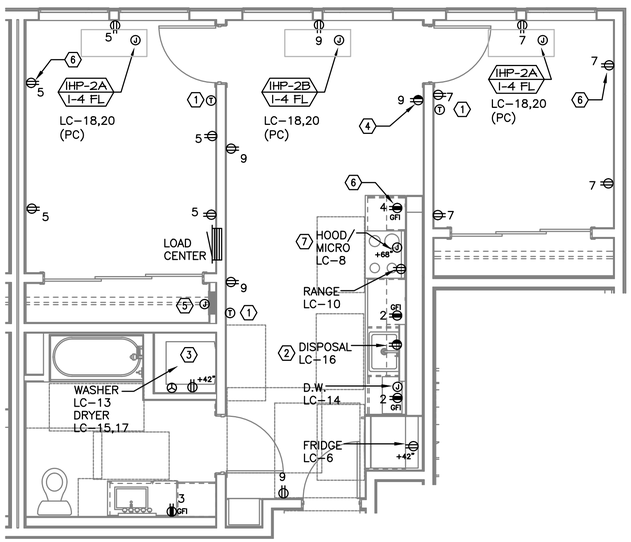
1 E4.11 UNIT TYPE 'A' – POWER PLAN
1/4" = 1'-0"



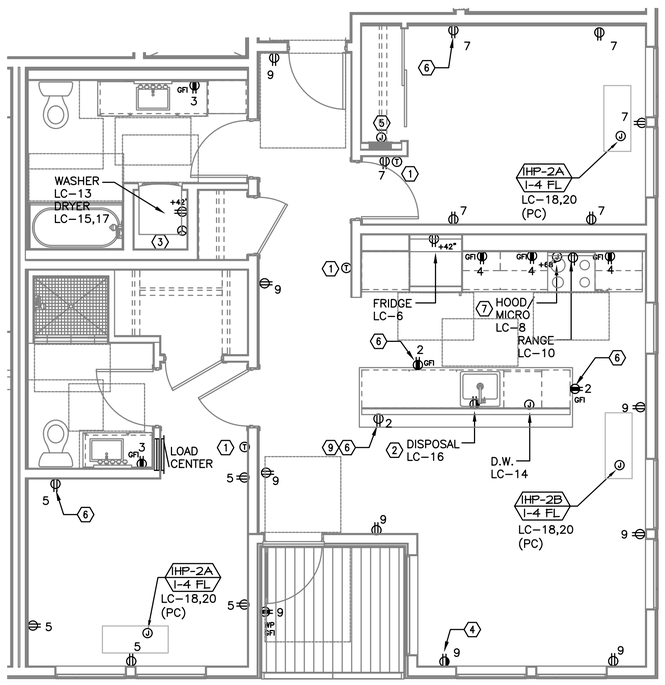
ACCESSIBLE
2 E4.11 UNIT TYPE 'A' – POWER PLAN
1/4" = 1'-0"



3 E4.11 UNIT TYPE 'B' – POWER PLAN
1/4" = 1'-0"



ACCESSIBLE
4 E4.11 UNIT TYPE 'B' – POWER PLAN
1/4" = 1'-0"



5 E4.11 UNIT TYPE 'C' – POWER PLAN
1/4" = 1'-0"

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 E1.23 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 E1.14 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

F. RECEPTACLE FOR PTHP UNIT SHALL BE LOCATED 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.

G. COORDINATE WITH THE 'T' SERIES SHEETS AND PROVIDE ROUGH IN FOR LOW VOLTAGE SYSTEMS ( ) REFERS TO ROUGH IN BOXES.

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. DISPOSAL TO BE PROVIDED WITH "SAFEAIRE" SINK DISPOSAL AIR SWITCH, MOUNTED PER ARCHITECT'S DIRECTION. VERIFY DEVICE FINISH WITH ARCHITECT PRIOR TO ORDERING.
3. REFER TO DETAIL 2/E1.17 FOR TYPICAL LAUNDRY ALCOVE RECEPTACLE LOCATIONS. COORDINATE INSTALLATION WITH MECHANICAL & PLUMBING CONTRACTOR.
4. PROVIDE ONE 15A SPLIT BUSS SWITCHED RECEPTACLE. REFER TO E4 SERIES 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. PROVIDE ONE 15A, 120V, 1P RECEPTACLE WITH USB PORT, MOUNTED AT 44" A.F.F (MAX) AT KITCHEN ISLAND/PENNISULA COUNTER & AT 18" AFF IN BEDROOMS. CONSULT ARCHITECT AND/OR INTERIOR DESIGNER FOR ADDITIONAL LOCATIONS WHERE REQUIRED.
7. 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.
8. RECEPTACLE MOUNTED IN FACE OF CABINET.
9. MOUNT DEVICE JUST UNDER THE EDGE OF THE COUNTER TOP.
10. PROVIDE HOOD CONTROL SWITCH MOUNTED IN FACE OF FALSE CABINET FACE. REFER TO ARCHITECTURAL INTERIOR ELEVATIONS AND COORDINATE EXACT LOCATION.

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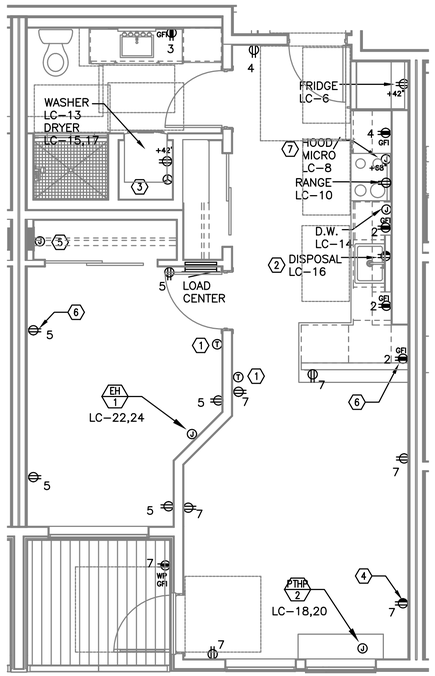
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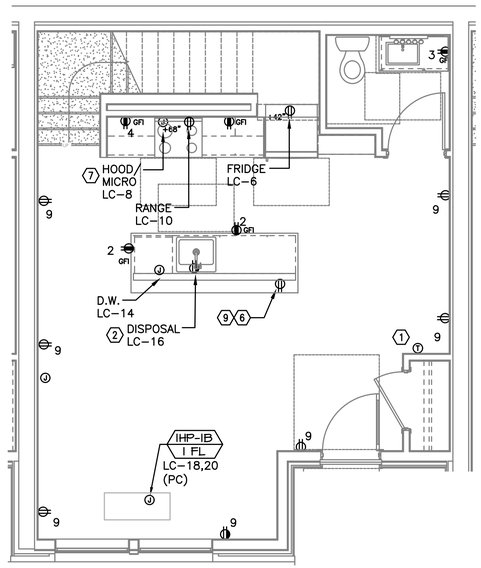
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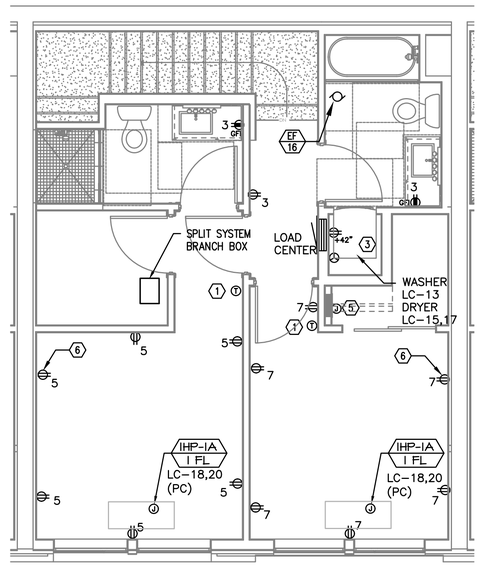
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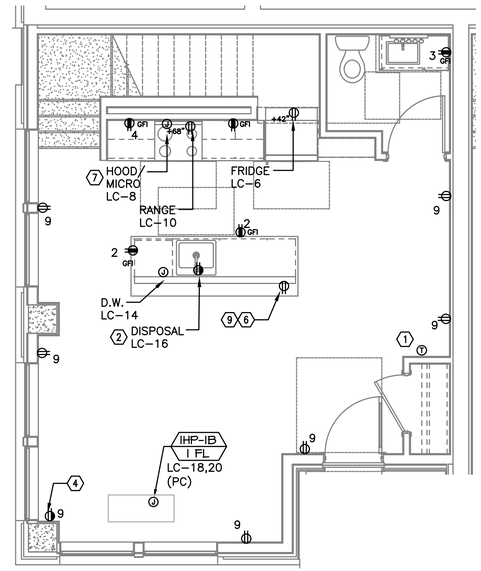
1 E4.12 UNIT TYPE 'D' – POWER PLAN
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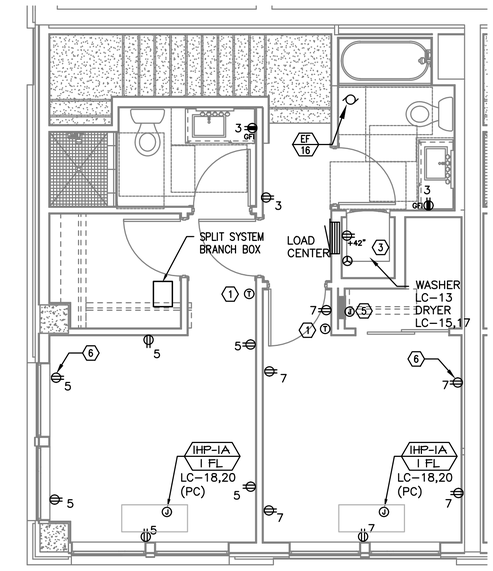
2 E4.12 UNIT TYPE 'E' LEVEL 1 POWER PLAN
1/4" = 1'-0"



3 E4.12 UNIT TYPE 'E' LEVEL 2 POWER PLAN
1/4" = 1'-0"



4 E4.12 UNIT TYPE 'F' LEVEL 1 POWER PLAN
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C. REFER TO DETAILS ON SHEET E1.23 FOR ADDITIONAL INFORMATION REGARDING ADA REACH REQUIREMENTS FOR RECEPTACLE AND SWITCH MOUNTING HEIGHT.

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E. REFER TO SHEET E1.14 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

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G. COORDINATE WITH THE 'T' SERIES SHEETS AND PROVIDE ROUGH IN FOR LOW VOLTAGE SYSTEMS ( ) REFERS TO ROUGH IN BOXES.

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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.
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7. 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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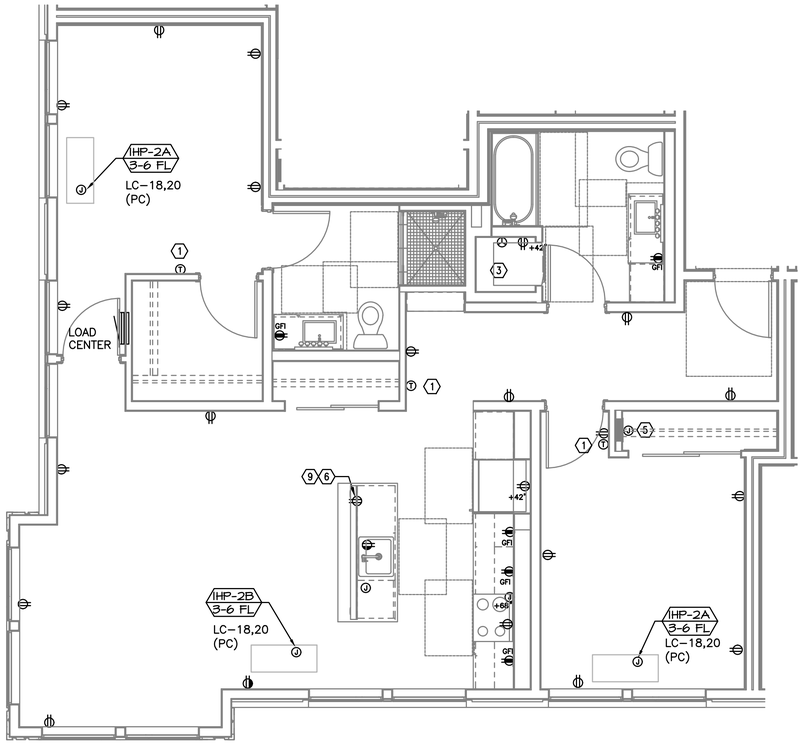
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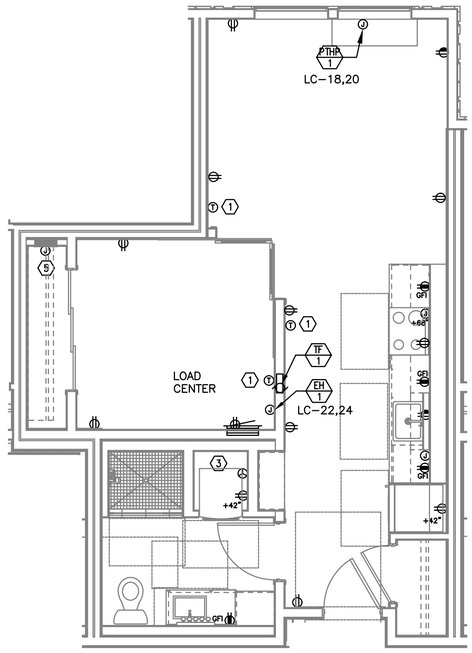
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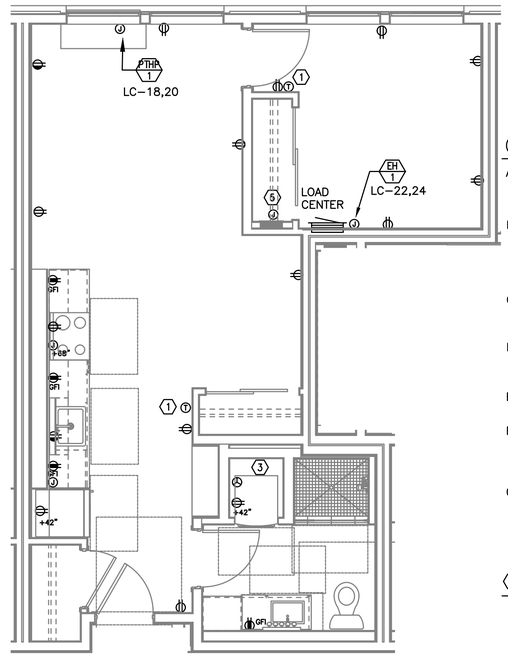
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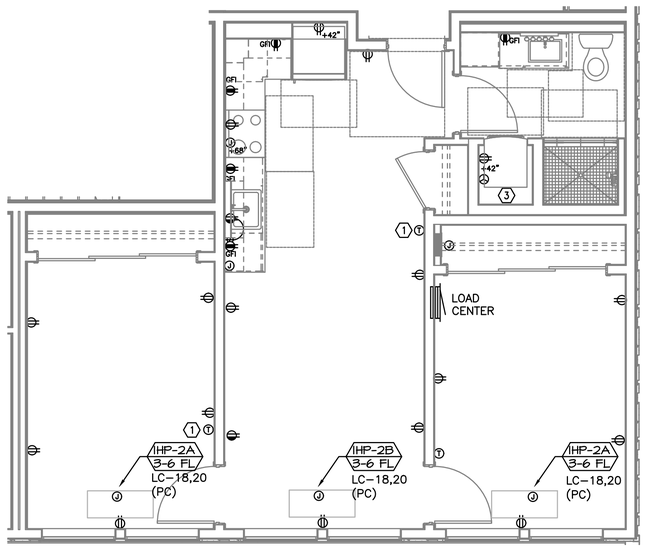
1 E4.13 UNIT TYPE 'G' – POWER PLAN
1/4" = 1'-0"



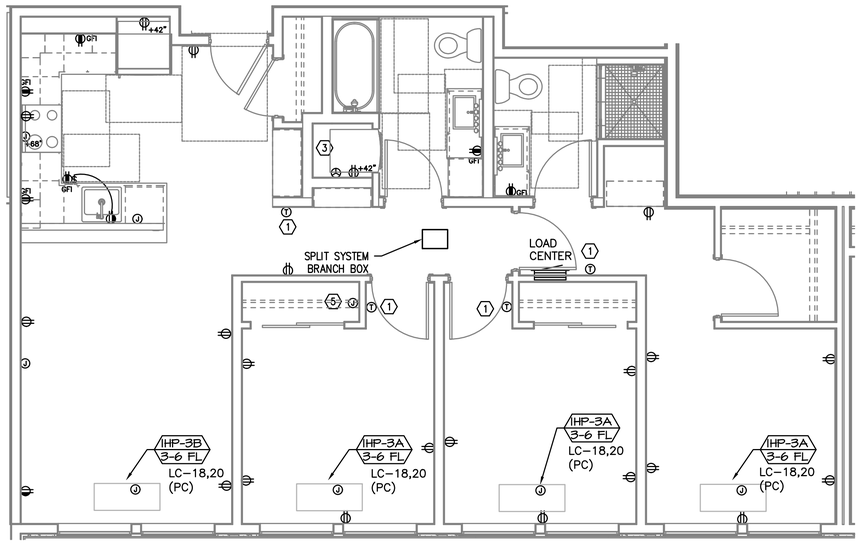
2 E4.13 UNIT TYPE 'H' – POWER PLAN
1/4" = 1'-0"



3 E4.13 UNIT TYPE 'I' – POWER PLAN
1/4" = 1'-0"



4 E4.13 UNIT TYPE 'J' – POWER PLAN
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5 E4.13 UNIT TYPE 'K' – POWER PLAN
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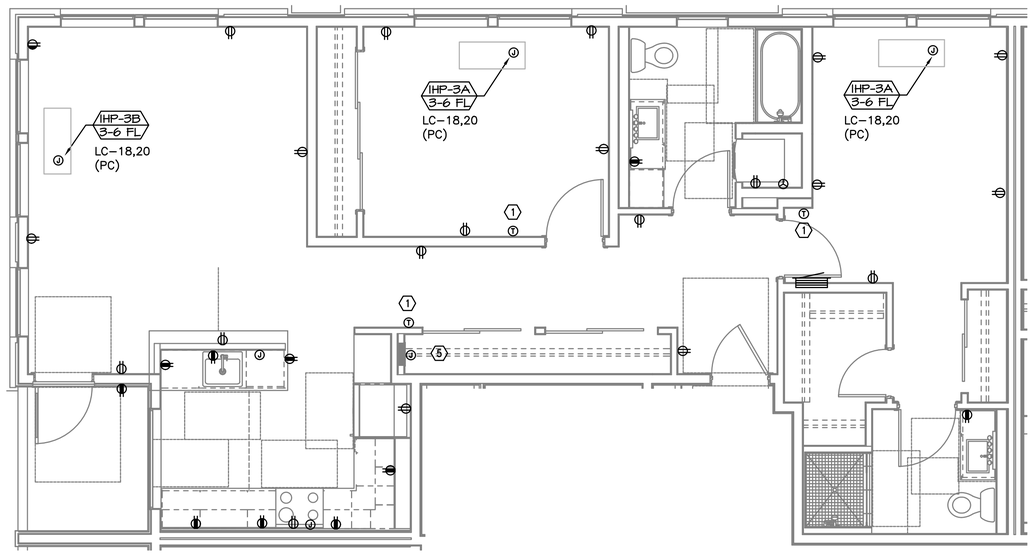
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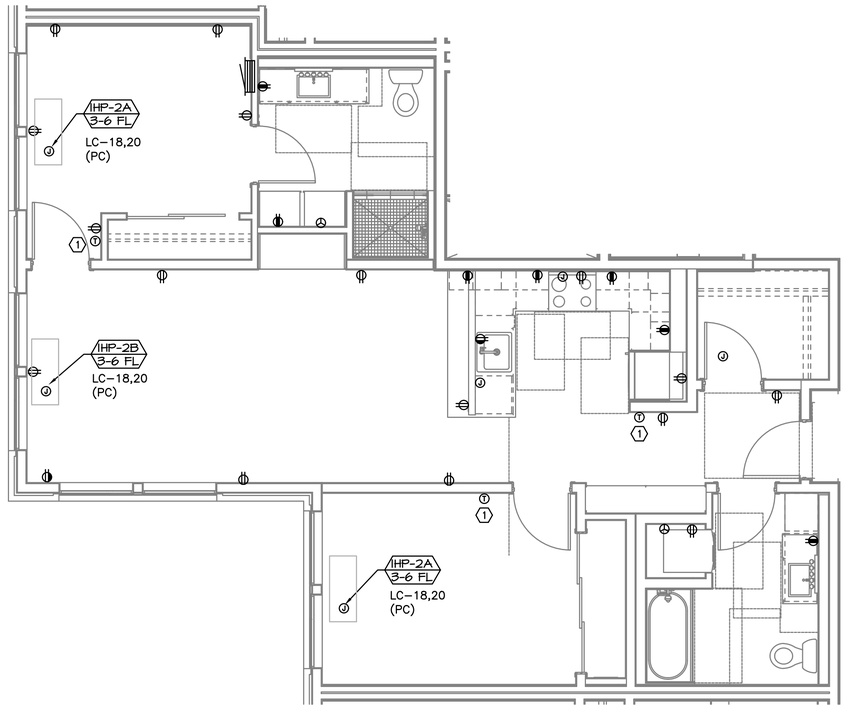
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SHEET:
E4.13

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