

MINNESOTA
PLACES

1208 N. JESSUP &
5627 N. MINNESOTA
(R226159, R226160)

PERMIT
SET

Issued:

PERMIT SET 7.29.2021

Job #: 2020

ORIGINAL SHEET SIZE: 24" x 36"
HALF SIZE: 12" x 18"

ELECTRICAL
SYMBOL LIST

Drawing Number

E1.00

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 SCENCE
	LIGHT FIXTURE, TRACK W/ HEADS AS SHOWN ON PLAN
	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
	AREA LUMINAIRE W/STANDBY LAMP
	AREA LUMINAIRE, WALL MOUNT
	AREA LUMINAIRE, POLE MOUNT
	AREA LUMINAIRE, POST TOP

SWITCH SYMBOLS	
	SWITCH, SPST +48" A.F.F.
	SWITCH, DPST +48" A.F.F.
	SWITCH, 3-WAY +48" A.F.F.
	SWITCH, 4-WAY +48" A.F.F.
	SWITCH, DIMMER +48" A.F.F.
	SWITCH, SPST, W/PILOT LIGHT +48" A.F.F.
	SWITCH, KEY-OPERATED +48" A.F.F.
	SWITCH, TIMED +48" A.F.F.
	PHOTOCELL CONTROL
	OCCUPANCY SENSOR CONTROL

SIGNAL SYMBOLS	
	TELEPHONE OUTLET +18" A.F.F.
	DATA OUTLET +18" A.F.F.
	DATA/TELEPHONE OUTLET +18" A.F.F.
	CLOCK
	SIGNAL BELL
	VISUAL ALARM SIGNAL (COLOR AS INDICATED ON PLAN)
	P.A. SPEAKER
	CATV OUTLET (LOCATE AS SHOWN ON PLANS)

FIRE ALARM SYMBOLS	
	FIRE ALARM MANUAL PULL STATION, +48" A.F.F.
	MAGNETIC DOOR HOLDER
	SMOKE DETECTOR, W/AUX. CONTACTS
	SMOKE/FIRE DAMPER
	SMOKE DETECTOR, DUCT, IONIZATION TYPE W/SAMPLING TUBE
	SMOKE DETECTOR, IONIZATION TYPE
	SMOKE DETECTOR, PHOTO TYPE
	HEAT DETECTOR, RATE-OF-RISE OR FIXED TEMP.
	FIRE MAIN FLOW DETECTION SWITCH
	FIRE MAIN TAMPER DETECTION SWITCH
	FIRE ALARM BELL, +80" A.F.F.
	FIRE ALARM HORN, +80" A.F.F.
	FIRE ALARM HORN/STROBE, +80" A.F.F.
	FIRE ALARM STROBE, +80" A.F.F.

POWER SYMBOLS	
	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
	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)

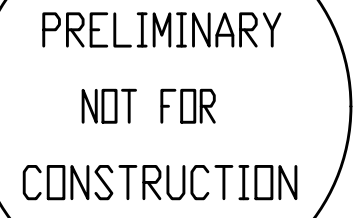
WIRING SYMBOLS	
	PANEL & CIRCUIT NUMBER
	HOMERUN TO PANEL
	CONDUCTOR SIZE (IF OTHER THAN #12)
	PHASE CONDUCTOR
	NEUTRAL CONDUCTOR
	GROUND CONDUCTOR
	CONCEALED CONDUIT
	CONDUIT SIZE
	CONDUIT (UNDER SLAB OR FLOOR)
	FLEXIBLE CONNECTION
	CONDUIT, STUBBED & CAPPED

NOTATIONS	
	DRAWING NOTE
	DETAIL REFERENCE: TOP=DETAIL NO., BOTTOM=SHEET NO.
	MECHANICAL EQUIPMENT MARK NO. (SEE EQUIPMENT SCHEDULE)
	EQUIPMENT NO. (SEE EQUIPMENT SCHEDULE)

ONE-LINE DIAGRAM SYMBOLS	
	ELECTRICAL DISTRIBUTION PANELBOARD (MLO)
	ELECTRICAL DISTRIBUTION PANELBOARD (MCB)
	SUB-FEED CIRCUIT BREAKER
	CIRCUIT BREAKER (TRIP RATING & POLES AS INDICATED ON PLAN)
	MAIN SWITCH (RATING & POLES AS INDICATED ON PLAN)
	FUSE (RATING & CLASS AS INDICATED ON PLAN)
	TRANSFER SWITCH (MANUAL OR AUTOMATIC)
	GENERATOR (RATING AS INDICATED ON PLAN)
	TRANSFORMER (RATING AS INDICATED ON PLAN)
	FUSE (RATING & CLASS AS INDICATED ON PLAN)
	GROUND SYSTEM (SIZE AS INDICATED ON PLAN)
	WATER PIPE GROUND ELECTRODE
	TRANSIENT VOLTAGE SURGE SUPPRESSOR
	UTILITY METER & METER BASE
	UTILITY METER CURRENT TRANSFORMER
	FEEDER NO. (SEE FEEDER SCHEDULE)

ABBREVIATIONS			
'A'	LIGHT FIXTURE TYPE (SEE FIXTURE LIST)	I.G.	ISOLATED GROUND
A.F.F.	ABOVE FINISHED FLOOR	LCP	LIGHTING CONTROL PANEL
A.F.G.	ABOVE FINAL GRADE	MCB	MAIN CIRCUIT BREAKER
A.F.I.	ARC FAULT INTERRUPTER	MLO	MAIN LUGS ONLY
A.T.S.	TRANSFER SWITCH, AUTOMATIC	N.I.C.	NOT IN CONTRACT
C	CONDUIT	N.L.	NIGHT LIGHT
C.O.	CONDUIT ONLY	P	POLE
CATV	CABLE TELEVISION	PC	PARTIAL CIRCUIT
CB	CIRCUIT BREAKER	PH	PHASE
CCTV	CLOSED CIRCUIT TELEVISION	R.T.U.	REMOTE TELEMETRY UNIT
C.T.	CURRENT TRANSFORMER	T.V.S.S.	TRANSIENT VOLTAGE SURGE SUPPRESSOR
(E)	EXISTING	U.G.	UNDERGROUND
FACP	FIRE ALARM CONTROL PANEL	U.O.N.	UNLESS OTHERWISE NOTED
G.F.I.	GROUND FAULT INTERRUPTER	VFD	VARIABLE FREQUENCY DRIVE
GND	GROUND	W	WIRE
HP	HORSEPOWER	W.G.	WIRE GUARD
		W.P.	WEATHERPROOF

NOTE: SOME OF THE SYMBOLS AND ABBREVIATIONS ON THIS LIST MAY NOT APPLY TO THIS PROJECT.



Project Owner: _____

ALTERNATIVE LAND DEVELOPMENT

MINNESOTA PLACES

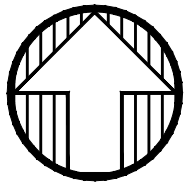
PERMIT
SET

b #: 2020

ORIGINAL SHEET SIZE: 24" x 36"
HALF SIZE: 12" x 18"

ELECTRICAL SITE PLAN

E1.01



1 ELECTRICAL SITE PLAN

PRELIMINARY
NOT FOR
CONSTRUCTION

M
F
A
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Project Owner:
NATIVE LAND DEVELOPMENT

Project Name:

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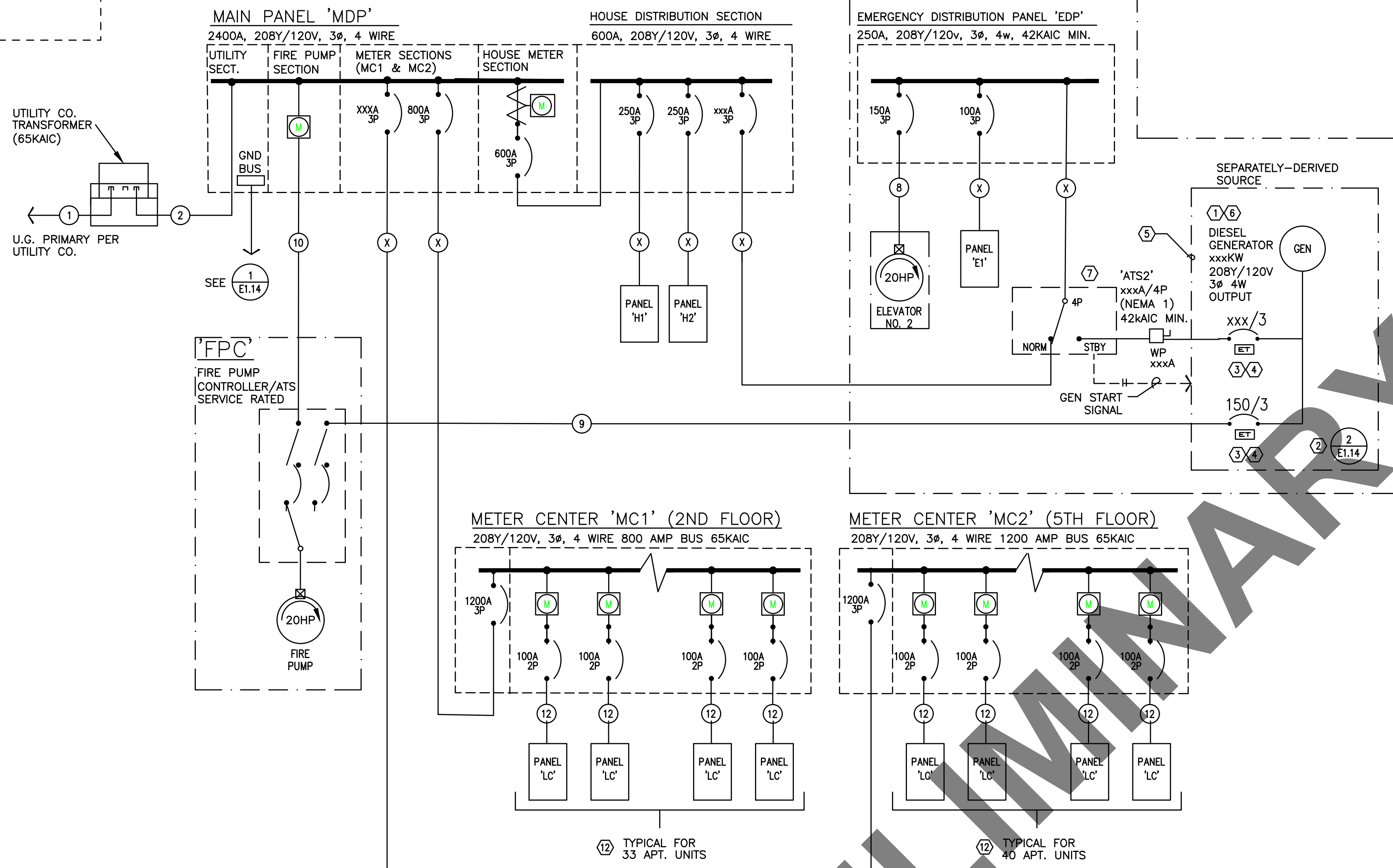
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ELECTRICAL
ONE-LINE
DIAGRAM

Drawing Number

E1.11



1 ELECTRIC ONE-LINE DIAGRAM
E1.11 208Y/120V, 3P, 4W

ONE-LINE GENERAL NOTES:

- COORDINATE ALL WORK ASSOCIATED WITH ELECTRIC SERVICE WITH LOCAL UTILITY. PROVIDE ALL CONDUIT & CONDUCTORS, GROUNDING, TRANSFORMER VAULT/PAD, ETC., IN ACCORDANCE WITH SERVING UTILITY REQUIREMENTS.
- COORDINATE METERING REQUIREMENTS WITH UTILITY.
- FOR LOAD CENTER FEEDER LENGTHS GREATER THAN 145'-0" FROM METER CENTER, INCREASE WIRE SIZE ONE SIZE UP FOR VOLTAGE DROP.

ONE-LINE NOTES:

- ESTIMATED GENERATOR STARTING LOAD IS BASED ON THE ELEVATOR & FIRE PUMP MOTORS BEING PROVIDED WITH REDUCED STARTING.
- PROVIDE GROUND FOR SEPARATELY DERIVED SYSTEM PER NEC.
- 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.
- COORDINATE INSTALLATION OF OUTPUT BREAKERS WITH GENERATOR MANUFACTURER TO SELECTIVELY COORDINATE WITH POWER STUDY RECOMMENDATIONS.
- '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.
- WHERE APPLICABLE, GENERATOR TO BE 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.
- 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.
- CONSULT MECHANICAL, PLUMBING AND/OR FIRE ALARM PLANS AND VERIFY EXACT POWER REQUIREMENTS FOR THE FIRE PUMP.
- CONSULT ELEVATOR PROVIDER FOR INSTALLATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.

Estimated Loads 7/26/2021 Minnesota Apartments Main distribution Center "MDP"

LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
House Loads (14800sf @ 15w/sf)				222,000			
Elevator 1 (11.1hp/42A)						15,120	
Fire Pump (20hp)						22,350	22,350
Residential Meters				488,000			
SUBTOTAL	0	0	0	710,000	0	37,470	22,350
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	0	0	0	710,000	0	37,470	5,588

CONN LOAD: 770 KVA

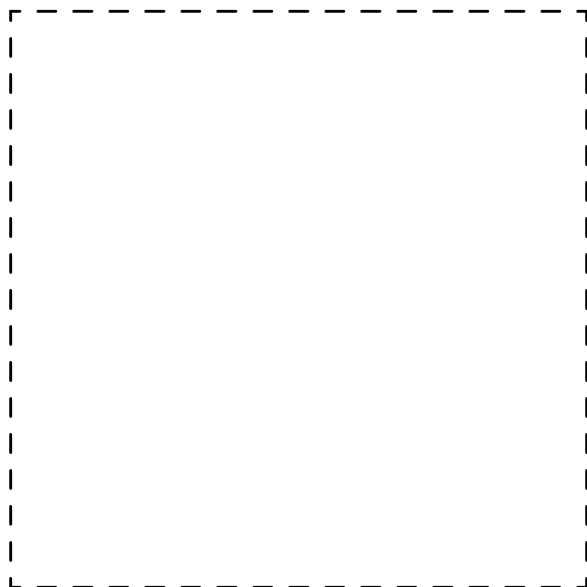
VOLTS:	208	3ph
TOTAL CALC:	753	KVA
CALC AMPS:	2090	AMPS

RESERVED FOR GENERATOR LOAD SUMMARY

FEEDER SCHEDULE (COPPER)

NO.	AMPS	CONDUIT	CONDUCTOR
1	1200	*(5) 4"	BY UTILITY CO. & (1) GND
2	1200A	*(3) 4"	ea w/ (4) #600Kcmil & (1) #3/0 GND
3	225A	2 1/2"	(4) #4/0 & (1) #4 GND
4	100A	1 1/2"	(3) #1 & (1) #8 GND
5	60A	1"	(3) #4 & (1) #10 GND

* PARALLEL FEEDER



RESERVED FOR HOUSE
PANEL SCHEDULES

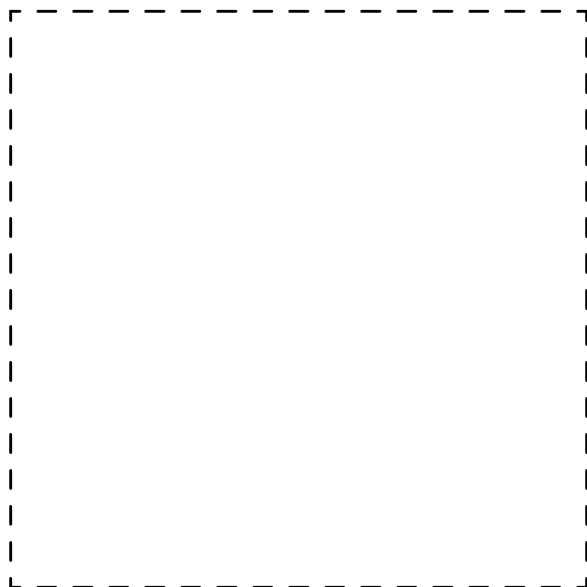
MINNESOTA APARTMENTS																					
RESIDENTIAL LOAD SUMMARY - MC1																					
UNIT TYPE:	QTY PER FLOOR								TOTAL	AREA (SF)	LTG/RECEPT	SM APPL	LAUNDRY	COOKING	MICROWAVE	DISHWASHER	ELECT DRYER	WATER HEATER	DISPOSAL	MOTORS	LARGEST OF AC/HEATING
	Lv 1	Lv 2	Lv 3	Lv 4	Lv 5	Lv 6	Lv 7	Lv 8			(3VA / SF)	(1500VA X2)	(1500VA)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)
1 Bedroom	1	2	2	2					7	300	900	3000	1500	8000	1700	0	5400	0	900	0	0
2 Bedroom	2	4	4	4					14	578	1734	3000	1500	8000	1700	0	5400	0	900	0	0
3 Bedroom	1	4	4	4					13	700	2100	3000	1500	8000	1700	0	5400	0	900	0	0
TOTALS:	4	10	10	10	0	0	0	0	34	19292	57876	102000	51000	272000	57800	0	183600	0	30600	0	0
VOLTS:										208	3ph										
TOTAL CONNECTED:										755	KVA										
DEMAND FACTOR:										0.3	Based on Total Number of Residential Units = 34-36 (See N.E.C. Article: 220.84)										
TOTAL CALCULATED:										226	KVA										
CALCULATED AMPS:										629	AMPS										
NOTE:																					

MINNESOTA APARTMENTS RESIDENTIAL LOAD SUMMARY- MC2																					
UNIT TYPE:	QTY PER FLOOR								TOTAL	AREA (SF)	LTG/RECEPT (3VA / SF)	SM APPL (1500VA X2)	LAUNDRY (1500VA)	COOKING (CONNECTED)	MICROWAVE (CONNECTED)	DISHWASHER (CONNECTED)	ELECT DRYER (CONNECTED)	WATER HEATER (CONNECTED)	DISPOSAL (CONNECTED)	MOTORS (CONNECTED)	LARGEST OF AC/HEATING (CONNECTED)
	LW 1	LW 2	LW 3	LW 4	LW 5	LW 6	LW 7	LW 8													
1 Bedroom					2	2	2	2	8	300	900	3000	1500	8000	1700	0	5400	0	900	0	0
2 Bedroom					4	4	4	4	16	578	1734	3000	1500	8000	1700	0	5400	0	900	0	0
3 Bedroom					4	4	4	4	16	700	2100	3000	1500	8000	1700	0	5400	0	900	0	0
TOTALS:	0	0	0	0	10	10	10	10	40	22848	68544	120000	60000	320000	68000	0	216000	0	36000	0	0
VOLTS:										208	3ph										
TOTAL CONNECTED:										889	KVA										
DEMAND FACTOR:										0.28	Based on Total Number of Residential Units = 39 (See N.E.C. Article: 220.84)										
TOTAL CALCULATED:										249	KVA										
CALCULATED AMPS:										691	AMPS										
NOTE:																					

DWELLING UNIT LOAD CALCULATION									
Project: Minnesota Apartments									
Unit Type 1Bedroom									
Area: 300 square feet(average)									
Minimum Size Feeder (NEC 220.40):									
General lighting load at 3 VA / SF				900 VA					
Small Appliance load (2 ckt's at 1500VA each)				3,000 VA					
Laundry Load (1 ckt at 1500VA)				1,500 VA					
Range				8,000 VA					
Other Cooking Appliance Load (Microwave Oven)				1,700 VA					
Dishwasher Load				0 VA					
Electric Dryer Load				0 VA					
Electric Water Heater Load				0 VA					
Disposal load				900 VA					
Other motor loads				0 VA					
Total "General Loads"				15,334 VA					
First 10 kVA of "general loads" at 100%				10,000 VA					
Remainder of "general loads" at 40%				2,134 VA					
Net "general load"				12,134 VA					
Largest of: 3,500 VA of electric space heating (less than 4) at 65%				2,275 VA					
-or- 0 VA of electric space heating (4 or more) at 40%				0 VA					
-or- 0 VA of air conditioning/cooling/heat pumps at 100%				0 VA					
TOTAL LOAD				14,075 VA					
For 120/208-volt, 4-wire, single-phase service or feeder, 14,075 VA / 208 volts =				68 Amps					
Therefore, this dwelling unit shall be permitted to be served by a 100 amp service.									

DWELLING UNIT LOAD CALCULATION			
Project:		Minnesota Apartments	
Type:		2 Bedroom	
Area:		578 square feet(average)	
Minimum Size Feeder (NEC 220.40):			
General lighting load at 3 VA / SF		1,734 VA	
Small Appliance load (2 ckt's at 1500VA each)		3,000 VA	
Laundry Load (1 ckt at 1500VA)		0 VA	
Range		8,000 VA	
Other Cooking Appliance Load (Microwave Oven)		1,700 VA	
Dishwasher Load		0 VA	
Electric Dryer Load		0 VA	
Electric Water Heater Load		0 VA	
Disposal load		900 VA	
Other motor loads		0 VA	
Total "General Loads"		15,334 VA	
First 10 kVA of "general loads" at 100%		10,000 VA	
Remainder of "general loads" at 40%		2,134 VA	
Net "general load"		12,134 VA	
Largest of:		5,000 VA of electric space heating (less than 4) at 65%	
-or-		VA of electric space heating (4 or more) at 40%	
-or-		VA of air conditioning/cooling/heat pumps at 100%	
TOTAL LOAD		15,384 VA	
For 120/208-volt, 4-wire, single-phase service or feeder,		15,384 VA / 208 volts =	
		74 Amps	
Therefore, this dwelling unit shall be permitted to be served by a		100 amp service.	

DWELLING UNIT LOAD CALCULATION			
Project:		Minnesota Apartments	
Unit Type		3 Bedroom	
Area:		700 square feet(average)	
Minimum Size Feeder (NEC 220.40):			
General lighting load at 3 VA / SF		2,100 VA	
Small Appliance load (2 ckt's at 1500VA each)		3,000 VA	
Laundry Load (1 ckt at 1500VA)		1,500 VA	
Range		8,000 VA	
Other Cooking Appliance Load (Microwave Oven)		1,700 VA	
Dishwasher Load		0 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"		22,600 VA	
First 10 kVA of "general loads" at 100%		10,000 VA	
Remainder of "general loads" at 40%		5,040 VA	
Net "general load"		15,040 VA	
Largest of		VA of electric space heating (less than 4) at 65%	
-or- 6,500		VA of electric space heating (4 or more) at 40%	
-or-		VA of air conditioning/cooling/heat pumps at 100%	
TOTAL LOAD		17,640 VA	
For 120/208-volt, 4-wire, single-phase service or feeder,		85 Amps	
17,640 VA / 208 volts =			
Therefore, this dwelling unit load may be permitted to be served by a		100 amp service.	



LIGHTING FIXTURE LIST					
TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
A1 A1E	LED 3000K 3000LM 31W	LITHONIA LIGHTING (OR APPROVED OTHER)	ZL1N-L46 SERIES	TYPE :4FT GENERAL PURPOSE STRIP MOUNTING :SURFACE HOUSING :STEEL LENS/REFL:ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	STORAGE & EQUIP ROOMS
A2	LED 3000K 2300LM 20W	NEO RAY LIGHTING (OR APPROVED OTHER)	S124DWC575D SERIES	TYPE :4FT WALL BRACKET MOUNTING :SURFACE (+7"-0" MIN) HOUSING :STEEL LENS/REFL:ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT A1E SHALL HAVE BATTERY BACKUP STAIRWELLS
B1 B1E	LED 3000K 2300LM 20W	NEO RAY LIGHTING (OR APPROVED OTHER)	S124DSC575D SERIES	TYPE :4FT LINEAR DIRECT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL:ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT B1E SHALL HAVE BATTERY BACKUP BIKE EQUIPMENT ROOMS
C1 C1E	LED 3000K 1075LM 9W	USAI LIGHTING (OR APPROVED OTHER)	P4RDF SERIES	TYPE :4.5" DIA DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL:NA VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT C1E SHALL HAVE BATTERY BACKUP DRY, CORRIDOR
C2 C2E	LED 3000K 1175LM 9W	USAI LIGHTING (OR APPROVED OTHER)	P3RD SERIES	TYPE :3" DIA DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL:NA VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT C2E SHALL HAVE BATTERY BACKUP LOBBIES
D1	LED 3000K 1790LM 34W	QUIOZEL LIGHTING (OR APPROVED OTHER)	PCOH282401SERIES	TYPE :24" DIA PENDANT MOUNTING :PENDANT HOUSING :STEEL LENS/REFL:ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT VERIFY MOUNTING HEIGHT MAIN LOBBY
S1	LED 3000K 1000LM 14W	LIGHTOLIER LIGHTING (OR APPROVED OTHER)	S7R SERIES	TYPE :5" DIA DOWNLIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL:ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT UL LISTED WET LOCATION BUILDING EXTERIOR
S2	LED 3000K 1000LM 15W	ALCON LIGHTING (OR APPROVED OTHER)	11235 DIR-15 SERIES	TYPE :5" DIA EXTERIOR CYLINDER MOUNTING :SURFACE HOUSING :ALUMINUM LENS/REFL:CLEAR TEMPERED GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT 60 DEGREE WIDE FLOOD UL LISTED WET LOCATION ENTRY CANOPY
S3	LED 3000K 2130LM 20W	STONER LIGHTING (OR APPROVED OTHER)	LPW16 SERIES	TYPE :EXTERIOR WALL PACK MOUNTING :SURFACE (ABOVE DOOR) HOUSING :ALUMINUM LENS/REFL:ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	TYPE III DISTRIBUTION BUILDING SERVICE ENTRANCE
U1	LED 2700K 1500LM 15W	PER APPROVED OTHER	DFR615-H-927-WH	TYPE :6" DIA CEILING LIGHT MOUNTING :SURFACE HOUSING :ALUMINUM LENS/REFL:ACRYLIC VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING)	UL LISTED WET LOCATION UNIT KITCHEN, BATH, HALL

U3	LED 3000K 1600LM 20W	KUZCO LIGHTING (OR APPROVED OTHER)	FM3511 SERIES	TYPE :11" DIA CEILING LIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL:FROSTED GLASS VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING)	FINISH PER ARCHITECT UNIT BEDROOM
U4	LED 3000K 1600LM 20W	KUZCO LIGHTING (OR APPROVED OTHER)	VL62220 SERIES	TYPE :20" VANITY BAR MOUNTING :SURFACE (=6" ABOVE MIRROR) HOUSING :STEEL LENS/REFL:ACRYLIC VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING)	FINISH PER ARCHITECT UNIT BATHROOM
X1 X2	LED (GREEN LETTERS) DMF LIGHTING (OR APPROVED OTHER) (1.5W)	LITHONIA (OR APPROVED 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	X1= SINGLE SIDE X2= DOUBLE SIDE

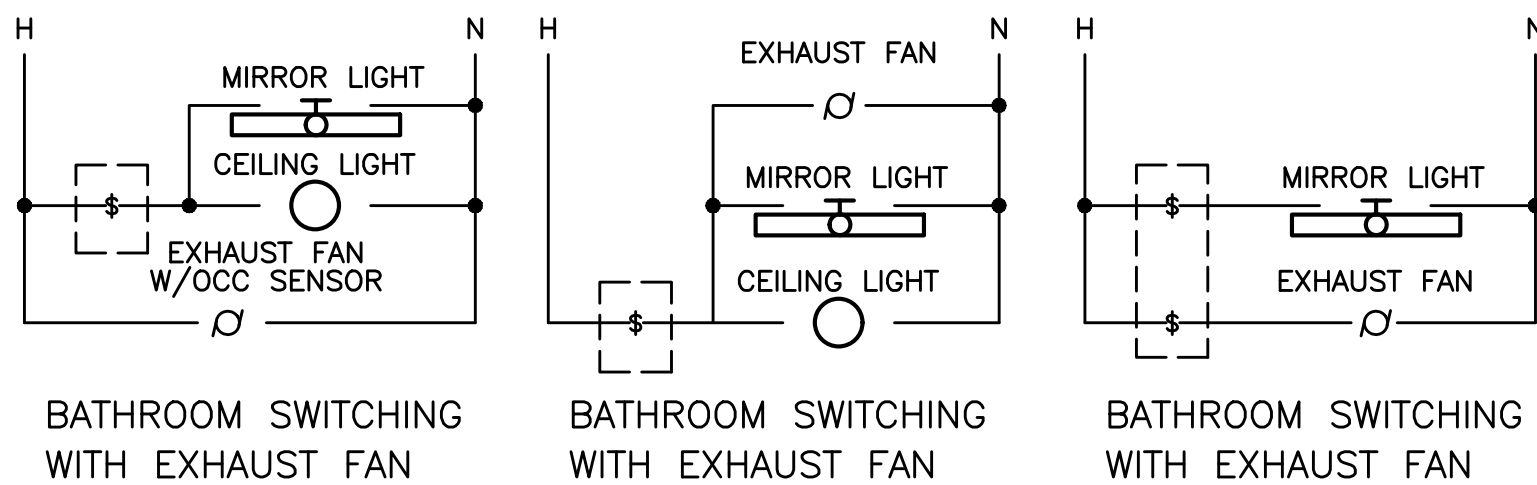
MECHANICAL EQUIPMENT SCHEDULE									
NO.	EQUIPMENT NAME	HP/KW	VOLTS	PH	AMPS	CONDUIT	WIRE	GND	CIRCUIT
EF-1	EXHAUST FAN NO.1	11.0W	120	1		1/2"	#12	#12	SEE TYP. UNITS E3.02
EF-2	EXHAUST FAN NO.2	11.0W	120	1		1/2"	#12	#12	HP-10 (PC)
SF-1	SUPPLY FAN NO.1	16.0W	120	1		1/2"	#12	#12	SEE POWER PLANS
EH-1	WALL HEATER NO.1	1.5KW	240	1		1/2"	#12	#12	SEE POWER PLANS
EH-2	WALL HEATER NO.2	500W	120	1		1/2"	#12	#12	H1-8
EH-3	WALL HEATER NO.3	1.5KW	240	1		1/2"	#12	#12	H1-35,37
B-1	BOILER NO.1 (GAS)		120	1		1/2"	#12	#12	H1-20 (PC)
B-2	BOILER NO.2 (GAS)		120	1		1/2"	#12	#12	H1-20 (PC)
P-1	PUMP NO. 1	336W	120	1		1/2"	#12	#12	H1-20 (PC)
RP-1	RECIRC PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	H1-24
RP-2	RECIRC PUMP NO.2	1/2HP	120	1		1/2"	#12	#12	H1-26
SF-1	SUPPLY FAN NO.1		120	1		1/2"	#12	#12	SEE POWER PLANS
SP-1	SUMP PUMP NO.1	2x 3/4HP	208	3		1/2"	#12	#12	H1-28,30,32
WH-1	WATER HEATER NO.1 (GAS)		120	1		1/2"	#12	#12	H1-22 (PC)
WH-2	WATER HEATER NO.2 (GAS)		120	1		1/2"	#12	#12	H1-22 (PC)

GENERAL LIGHTING NOTES:

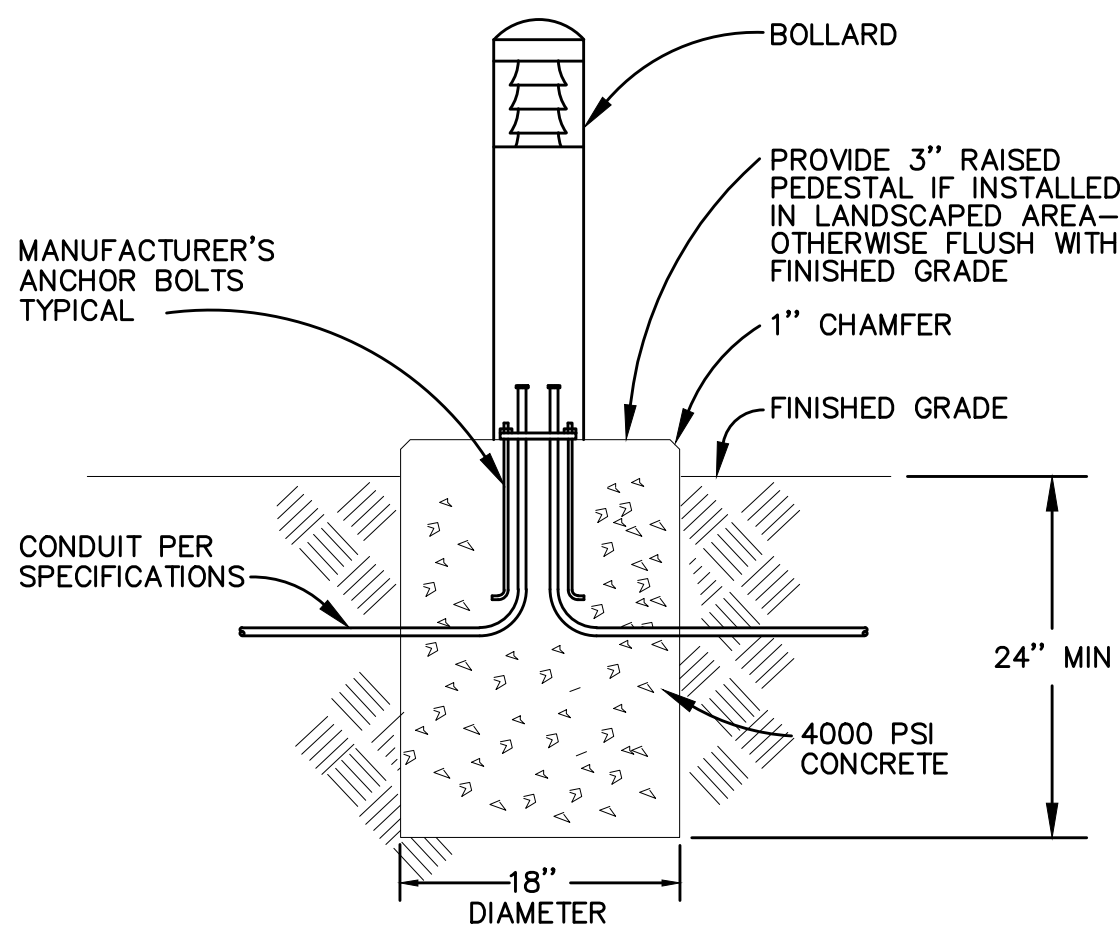
- A. WHEREVER POSSIBLE, SELECTED LIGHT FIXTURES SHALL HAVE ENERGY EFFICIENT LAMPS, BALLASTS & DRIVERS AND/OR HAVE ENERGY COMPLIANT RATINGS SUCH AS DLC, ENERGY STAR, ETC.
- B. VERIFY ALL FIXTURE FINISHES WITH ARCHITECT PRIOR TO BID.
- C. VERIFY ALL FIXTURE LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO ROUGH IN.
- D. ALL LIGHTING SHALL BE 3000 KELVIN UNLESS OTHERWISE NOTED.
- E. ALL PRODUCT SUBSTITUTIONS AND VALUE ENGINEERING SHALL BE SUBMITTED DURING BID PHASE, SHALL MEET DESIGN INTENT AND ARE SUBJECT TO OWNER APPROVAL.
- F. EGRESS LIGHTING SHALL BE PROVIDED TO MEET MINIMUM LIGHT LEVELS AS DESCRIBED PER OREGON STRUCTURAL SPECIALTY CODE 1006.3.
- G. BUILDING EXTERIOR & SITE LIGHTING SHALL BE CONTROLLED VIA PHOTOCELL, EITHER INTEGRAL OR REMOTE, OR BY TIME CLOCK FOR DUSK-TILL-DAWN OPERATION.
- H. LIGHTING FIXTURES DESIGNATED AS NIGHT LIGHTS (N.L.) AND STAIRWELL LIGHTS SHALL BE ON 24/7.
- J. STAIRWELL LIGHTS SHALL BE PROVIDED WITH OCCUPANCY SENSOR(S), EITHER INTEGRAL OR REMOTE, TO PROVIDE 50% LIGHT REDUCTION DURING PERIODS OF INACTIVITY. ONCE ACTIVATED, LIGHTS ARE TO REMAIN AT 100% OUTPUT FOR A MINIMUM OF 20 MINUTES.
- K. DESIGN INTENT FOR CORRIDOR LIGHTING SHALL BE SUCH THAT LIGHTS INDICATED AS NIGHT LIGHTS (N.L.), SHALL BE ON 24/7. ALL OTHER LIGHT FIXTURES TO BE CIRCUITED VIA TIME CLOCK TO REDUCE CORRIDOR LIGHTING BY 50% DURING PERIODS OF LOW ACTIVITY (IE. 12AM - 4AM OR AS DIRECTED BY OWNER).

GENERAL EQUIPMENT NOTES:

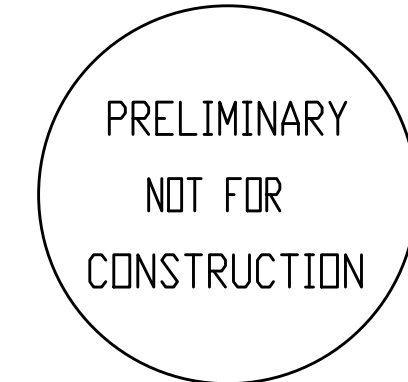
- A. CONTRACTOR/DESIGNER SHALL VERIFY ALL MECHANICAL EQUIPMENT CONNECTION LOAD REQUIREMENTS WITH THE MECHANICAL EQUIPMENT PROVIDER PRIOR TO ROUGH IN.
- B. MECHANICAL EQUIPMENT SIZES SHOWN IN THE MECHANICAL SCHEDULE ABOVE ARE FOR REFERENCE ONLY AND MAY NOT REFLECT THE ACTUAL EQUIPMENT TO BE INSTALLED.
- C. INDOOR & OUTDOOR COMPONENTS OF THE MINI-SPLIT SYSTEMS ARE INTERCONNECTED. CONSULT WITH AND COORDINATE THE ELECTRICAL REQUIREMENTS AND EXACT LOCATIONS WITH THE HVAC EQUIPMENT INSTALLER PRIOR TO ROUGH IN.
- D. REFER TO TYPICAL UNIT PLAN LOAD CENTER SCHEDULES ON THIS SHEET FOR CIRCUITING INFORMATION.



1 BATHROOM SWITCHING DIAGRAM - TYPICAL
E1.13 NO SCALE



2 BOLLARD LIGHT DETAIL
E1.13 NO SCALE



MINNESOTA
PLACES

1208 N. JESSUP &
5627 N. MINNESOTA
(R226159, R226160)

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Issued:
PERMIT SET 7.29.2021

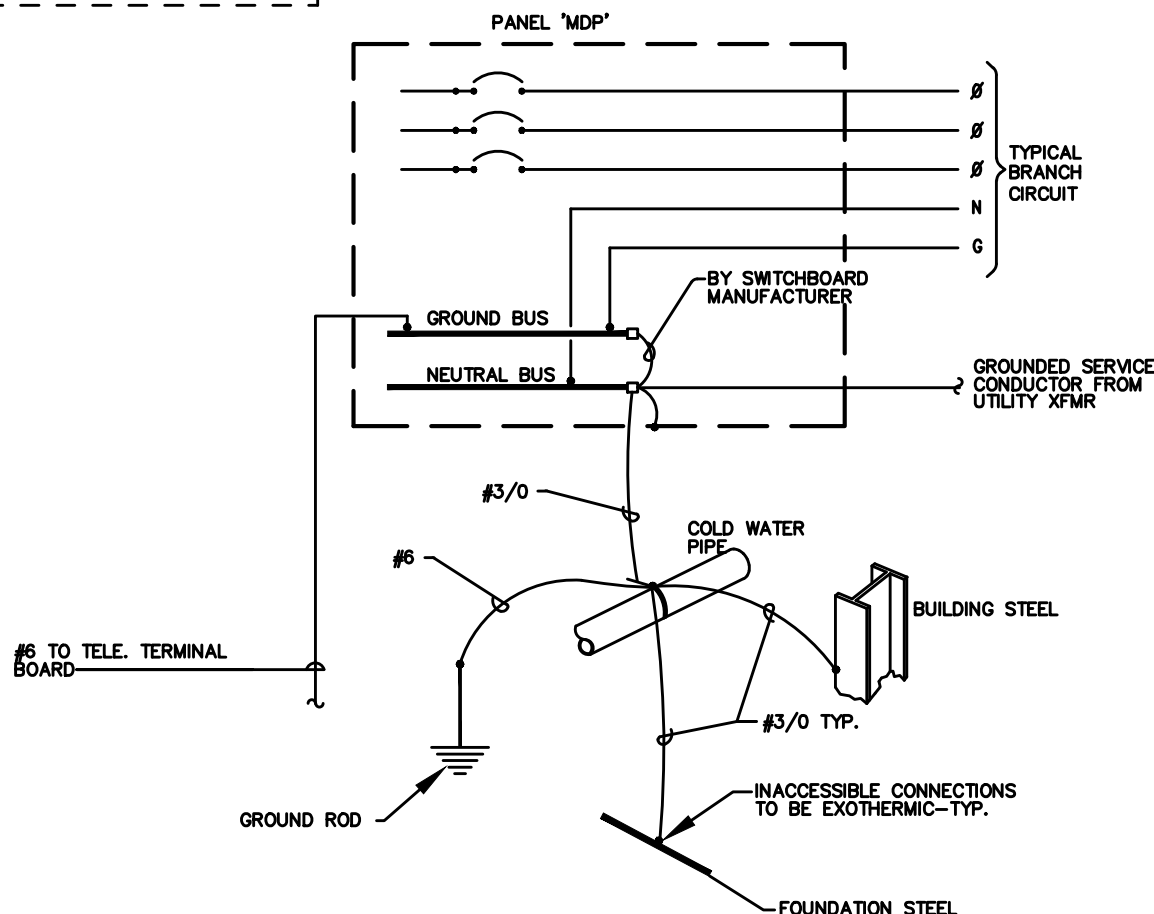
Job #: 2020

ORIGINAL SHEET SIZE: 24" x 36"
HALF SIZE: 12" x 18"

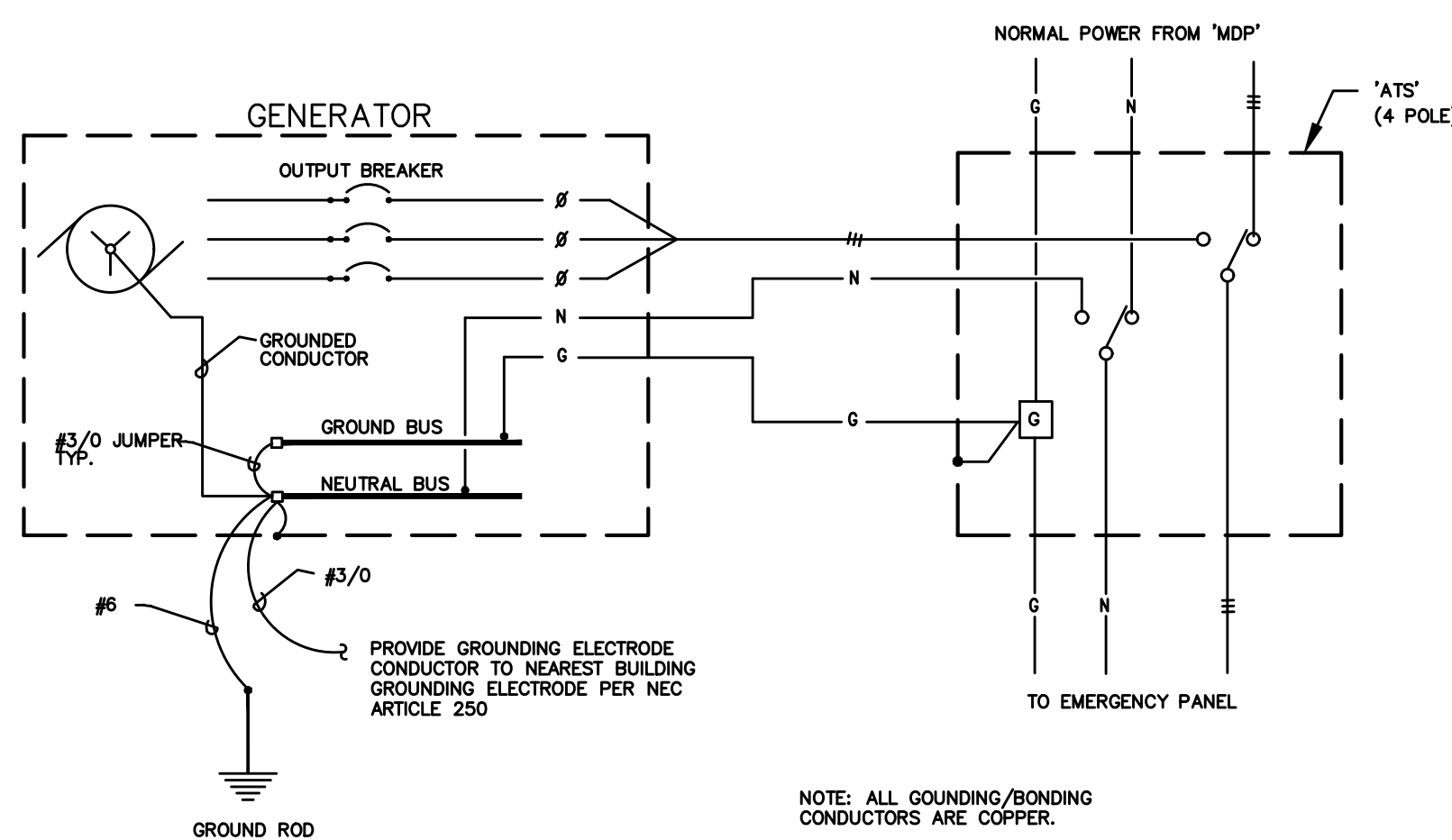
ELECTRICAL
SCHEDULES
& DETAILS

Drawing Number

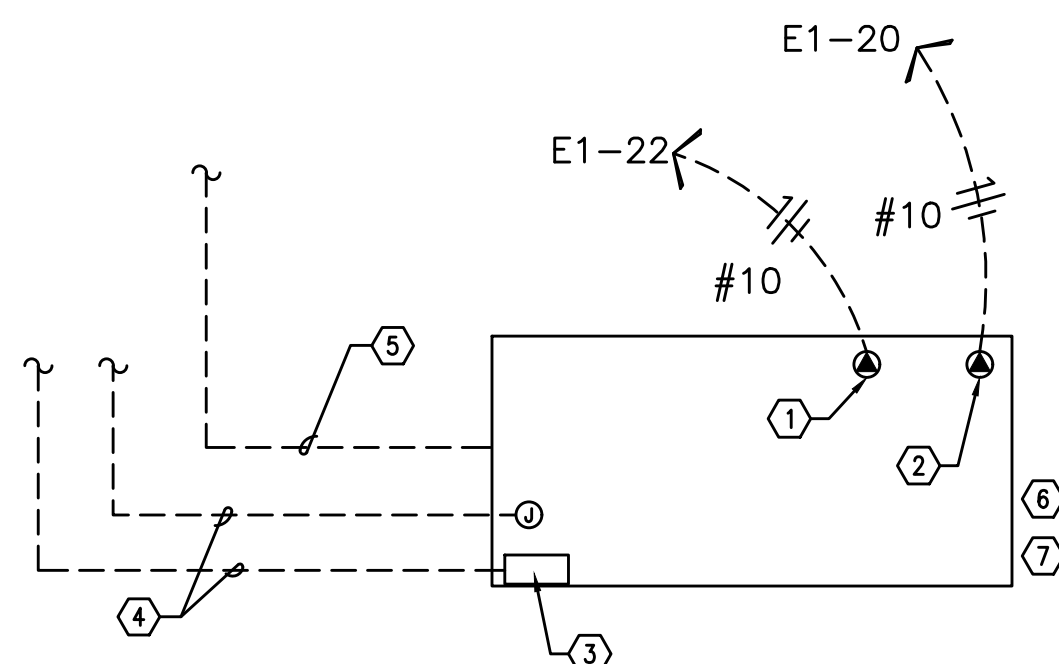
E1.13



1 GROUNDING/BONDING DIAGRAM
E1.14 208Y/120V, 3Ø, 4 WIRE



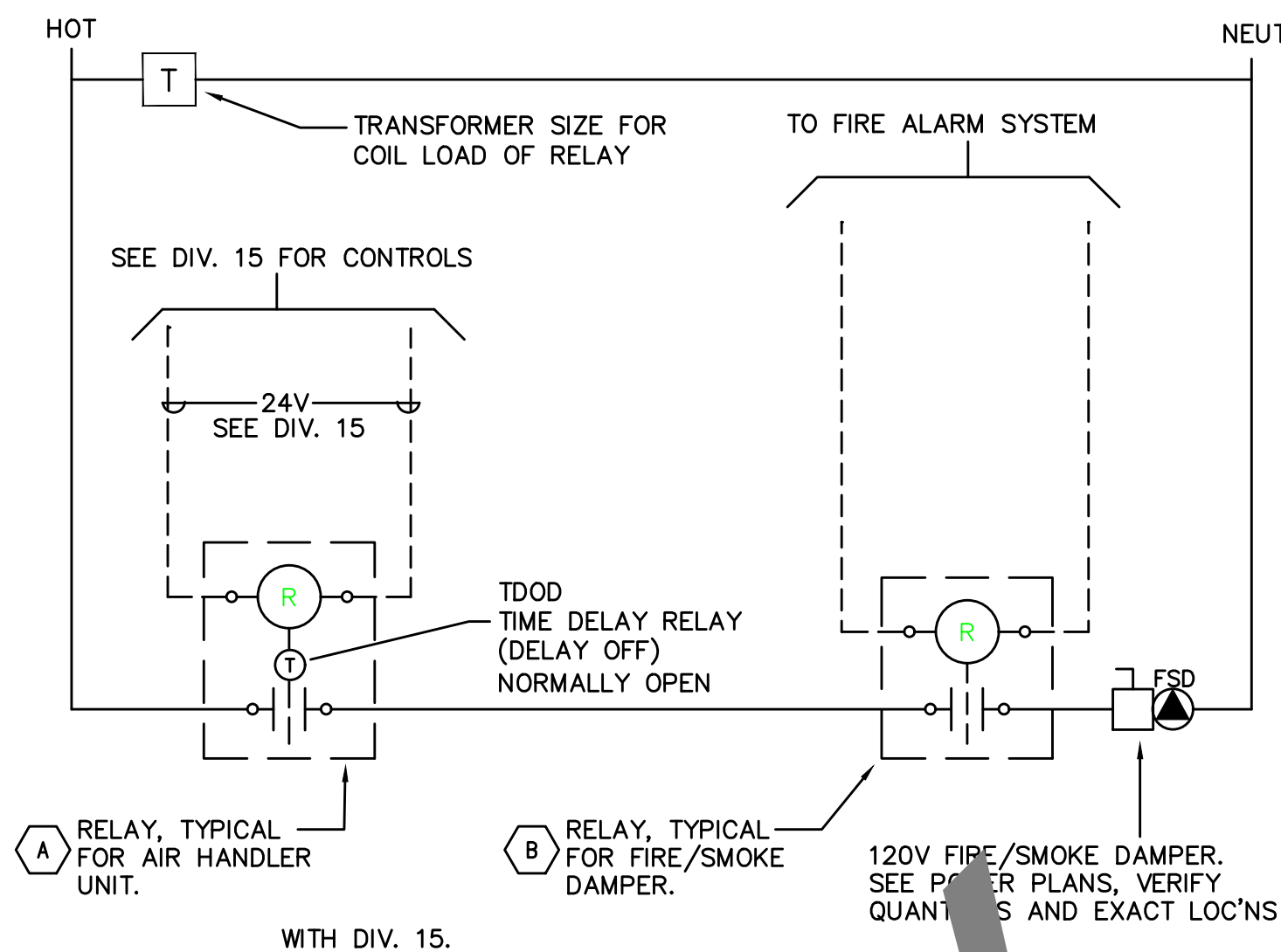
2 GENERATOR - ELECTRICAL GROUNDING/BONDING DETAIL
E1.14 NO SCALE



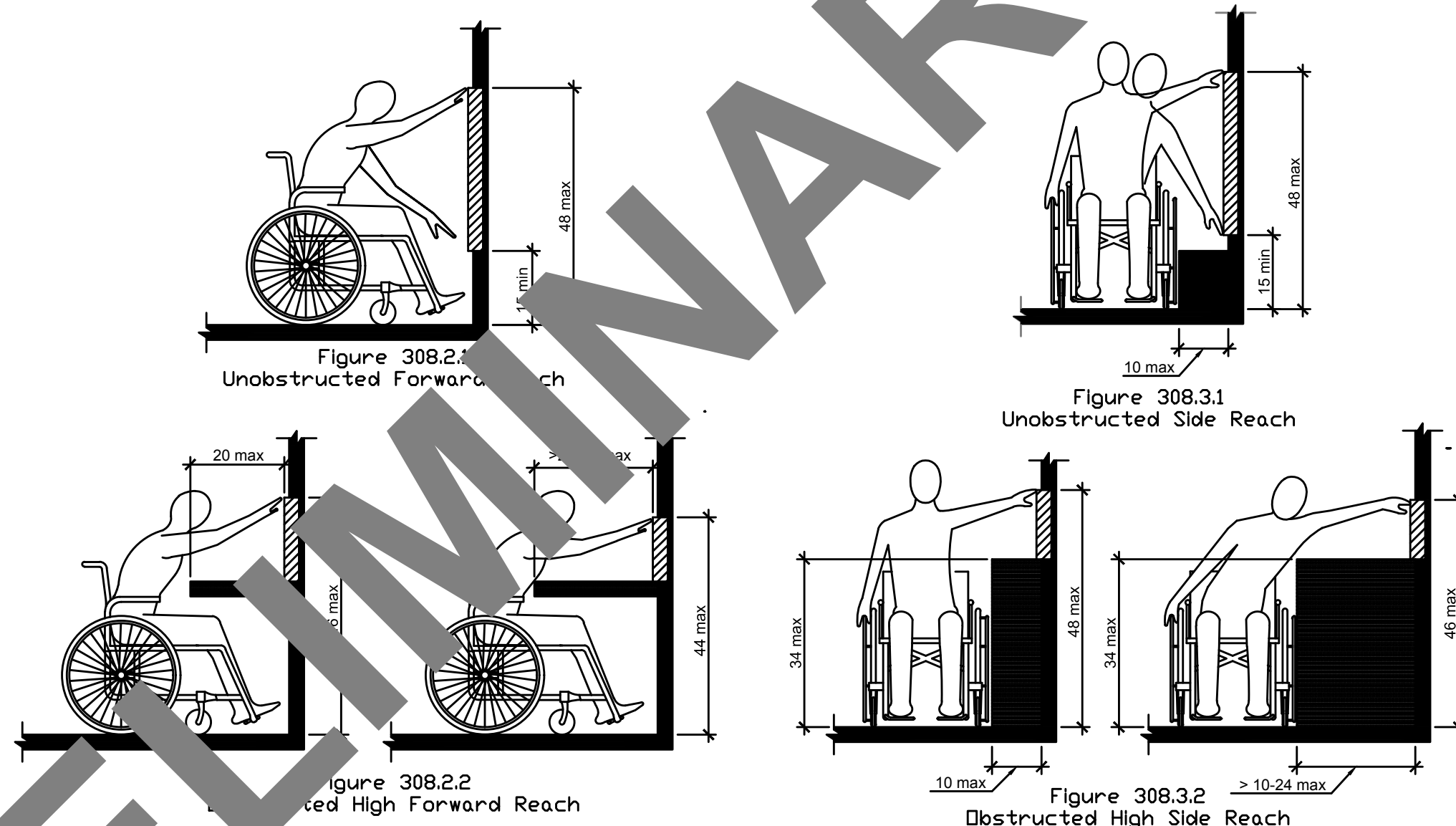
3 GENERATOR CIRCUITING DETAIL
E1.14 NO SCALE

NOTES:

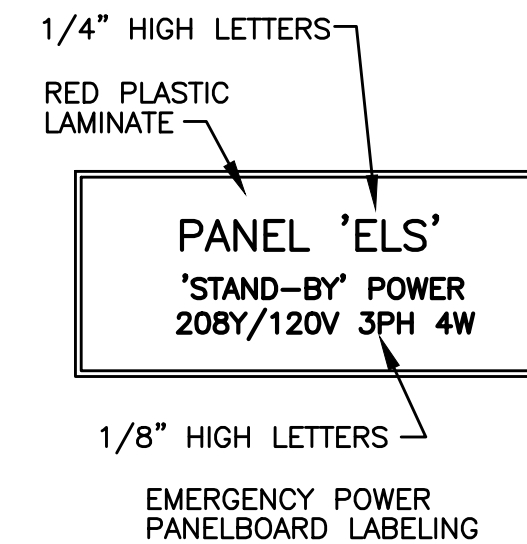
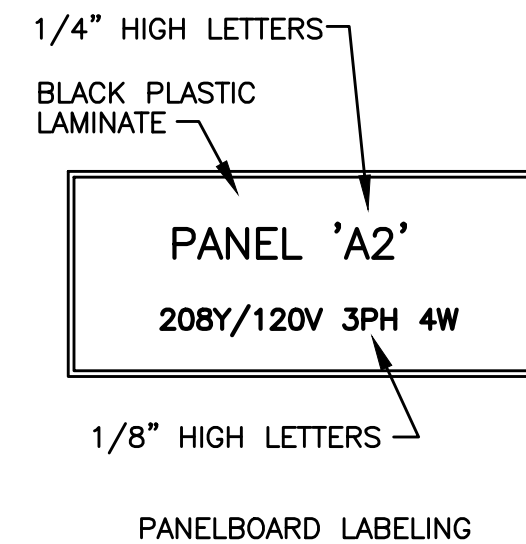
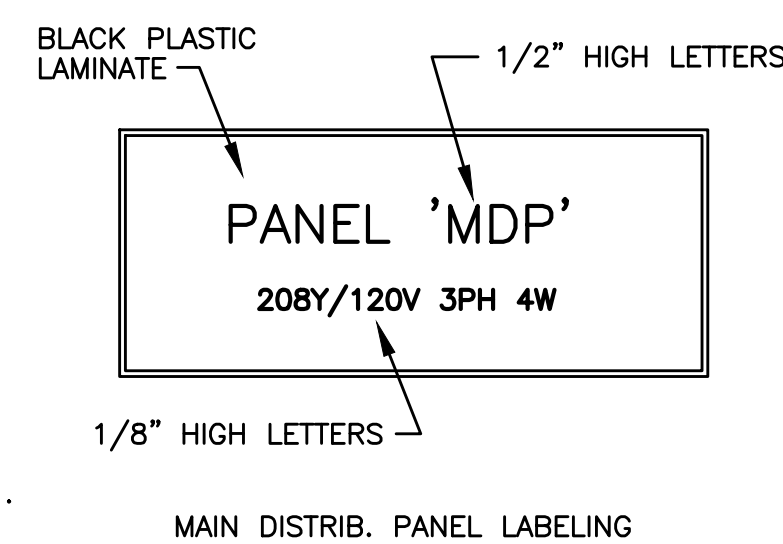
1. 120V GENERATOR BLOCK HEATER. SEE PANEL E1.
2. 120V GENERATOR BATTERY CHARGER. SEE PANEL E1.
3. GENERATOR OUTPUT BREAKER AND CONTROL SECTION. SEE PANEL E1.
4. POWER AND CONTROL TO TRANSFER SWITCH AND REMOTE ANNUNCIATOR. SEE ONE-LINE DIAGRAM ON SHEET E1.10.
5. TO AUTOMATIC TRANSFER SWITCH. SEE E1.10.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



5 SMOKE/FIRE DAMPER CONTROL DIAGRAM
E1.14 NO SCALE



6 ADA REACH REQUIREMENTS
E1.14 N.T.S.

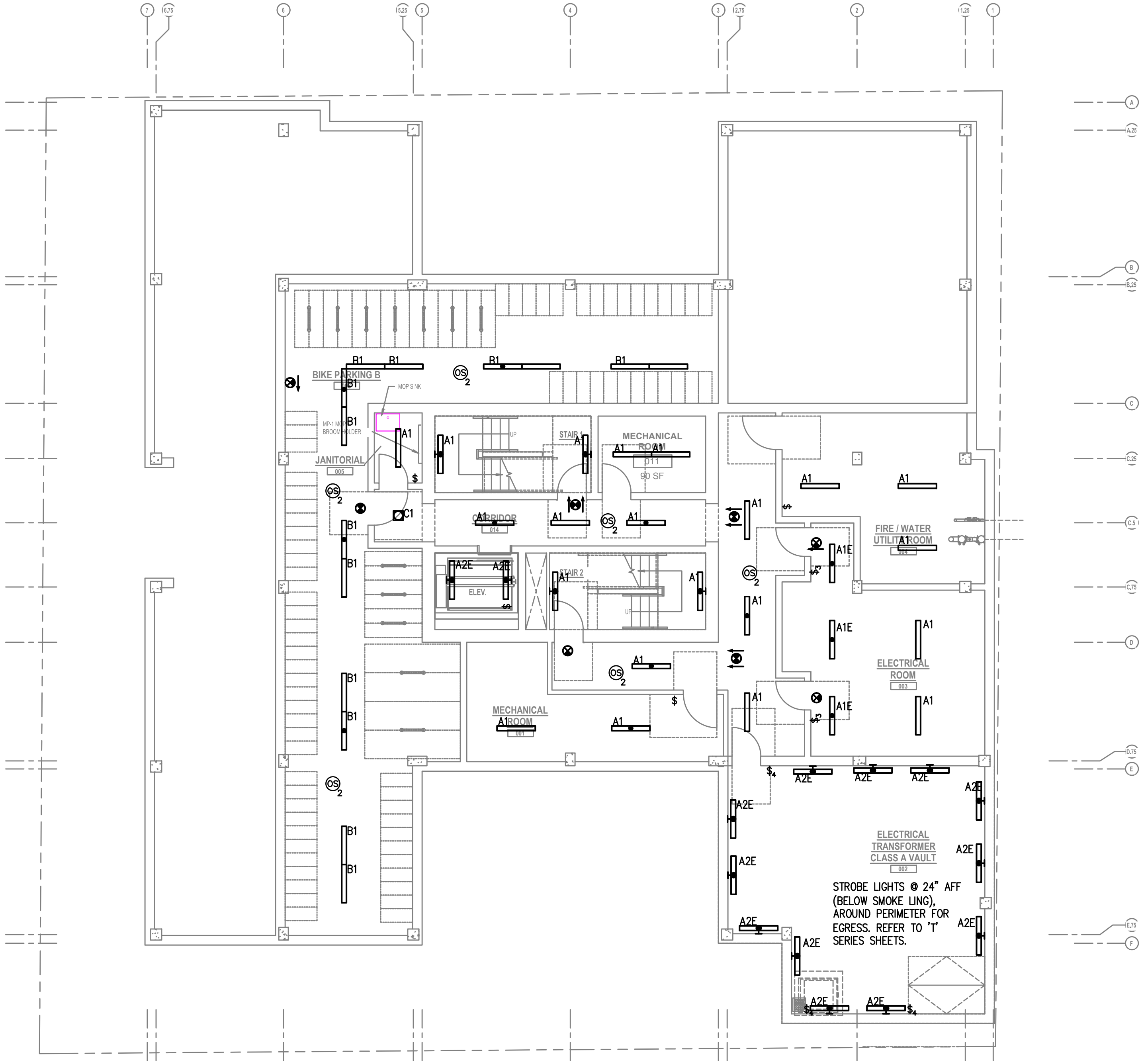
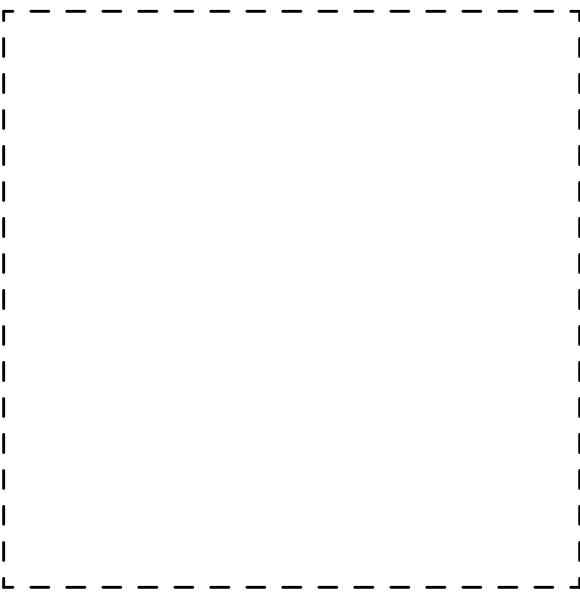


7 SWITCHBOARD/PANEL LABELING DETAIL
E1.14 NO SCALE

NOTE: ALL LETTERS ARE ENGRAVED WHITE

ADDRESSABLE DETECTOR CONTROL

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



1 BASEMENT LEVEL LIGHTING PLAN
E2.00 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 & INTERIOR DESIGN DRAWINGS FOR EXACT LOCATIONS, MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- C. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE RESIDENTIAL UNITS.
- D. REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULE.
- E. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.
- F. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE PROPER COVERAGE AND CONTROL.
- G. PROVIDE DIGITAL LIGHTING CONTROLS FOR EACH ROOM/SPACE, CONSISTING OF MULTI-BUTTON SWITCH(ES), OCC SENSORS, POWER PACKS, DAYLIGHT SENSORS, DIMMERS, INTERCONNECTING WIRING, ETC.
- H. CORRIDOR LIGHTING TO BE CONSTANT "ON" AND PROVIDED WITH LOCAL MANUAL OVERRIDE SWITCHES FOR MAINTENANCE. REFER TO SHEET E1.22 FOR SWITCH WIRING DIAGRAMS.
- I. 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.
- 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.

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. LIGHT FIXTURES IN THIS SPACE CONTROLLED BY CEILING MOUNT OCCUPANCY SENSOR.
- 4. PROVIDE PHOTOCELL FOR DAY-LIGHT REDUCTION OF LIGHT LEVELS.
- 5. CONTRACTOR TO COORDINATE WITH LANDSCAPE LIGHTING INSTALLER AND PROVIDE ROUGH-IN AND POWER CONNECTION(S) AS REQUIRED.
- 6. REFER TO SHEET E1.12 FOR TYPICAL DWELLING UNIT LOAD CENTER SCHEDULE FOR CIRCUITING INFORMATION.
- 7. REFER TO THE E3 SERIES SHEETS FOR TYPICAL DWELLING UNIT POWER DEVICE LAYOUT.

PRELIMINARY
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CONTACT: DENISE TAYLOR

Project Owner:
NATIVE LAND DEVELOPMENT

Project Name:

MINNESOTA
PLACES

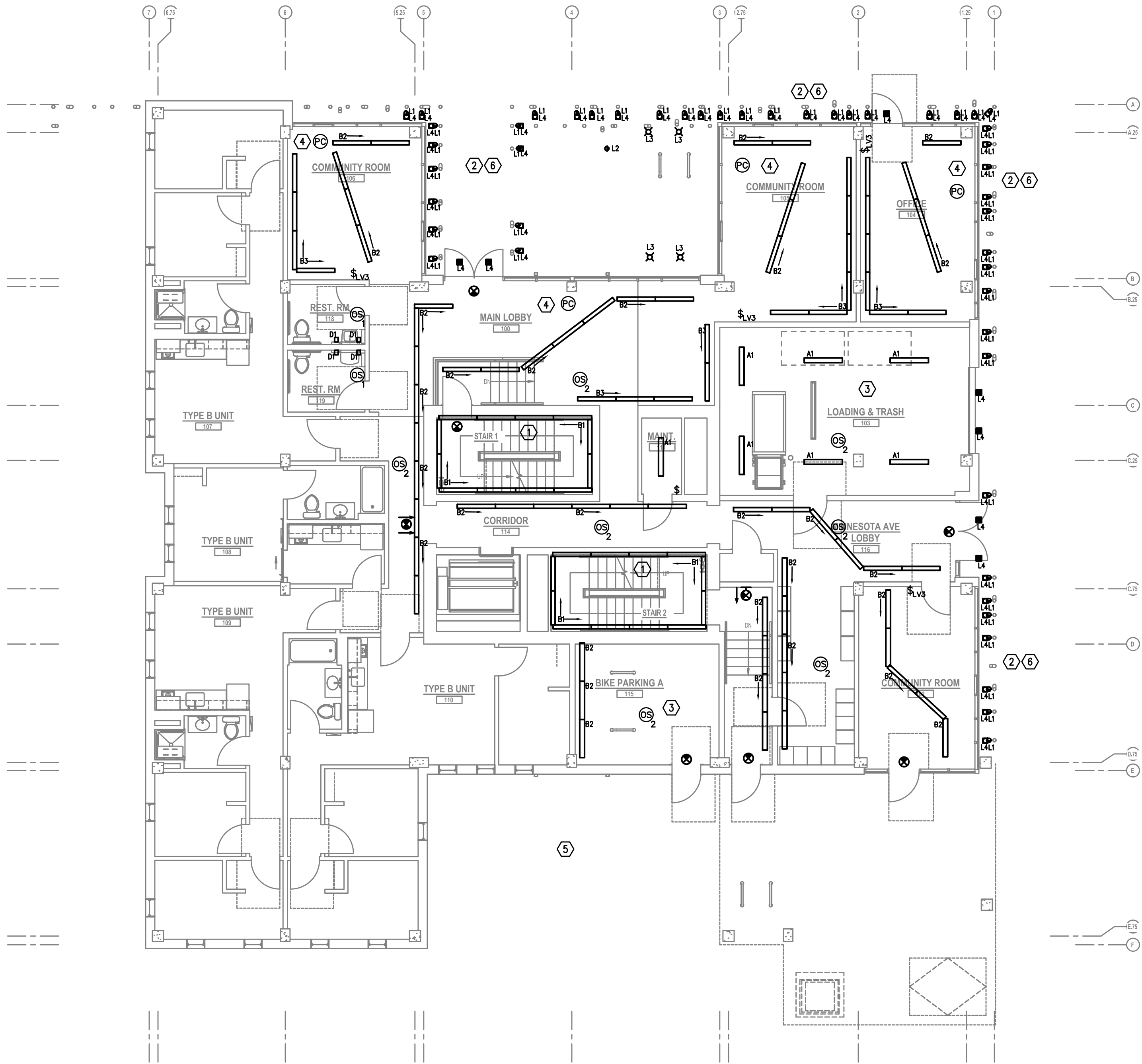
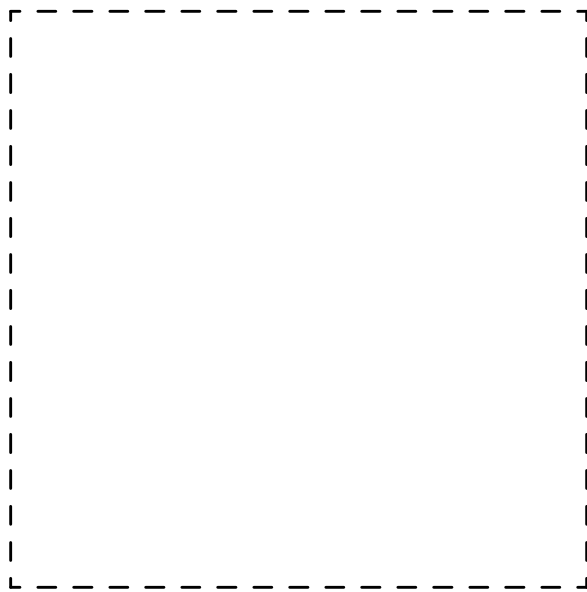
1208 N. JESSUP &
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(R226159, R226160)

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SET

Issued:	
PERMIT SET	7.29.2021
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HALF SIZE: 12" x 18"	

BASEMENT
LEVEL
LIGHTING PLAN

Drawing Number
E2.00



1 FIRST FLOOR LIGHTING PLAN
E2.01 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 & INTERIOR DESIGN DRAWINGS FOR EXACT LOCATIONS, 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 E1.13 FOR LIGHT FIXTURE SCHEDULE.
- E. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.
- F. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE PROPER COVERAGE AND CONTROL.
- G. PROVIDE DIGITAL LIGHTING CONTROLS FOR EACH ROOM/SPACE, CONSISTING OF MULTI-BUTTON SWITCH(ES), OCC SENSORS, POWER PACKS, DAYLIGHT SENSORS, DIMMERS, INTERCONNECTING WIRING, ETC.
- H. CORRIDOR LIGHTING TO BE CONSTANT "ON" WITH CEILING MOUNTED OCCUPANCY SENSORS (OTHER MEANS) TO REDUCE LIGHT LEVELS BY 50% DURING PERIODS OF INACTIVITY.
- I. 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 E1.13.
- J. REFER TO SHEET E1.13 FOR LIGHTING CONTROL DIAGRAMS. 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.

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 E1.13 FOR ADDITIONAL INFORMATION.
- 3. LIGHT FIXTURES IN THIS SPACE CONTROLLED BY CEILING MOUNT OCCUPANCY SENSOR.
- 4. PROVIDE PHOTOCELL FOR DAY-LIGHT REDUCTION OF LIGHT LEVELS.
- 5. CONTRACTOR TO COORDINATE WITH LANDSCAPE LIGHTING INSTALLER AND PROVIDE ROUGH-IN AND POWER CONNECTION(S) AS REQUIRED.
- 6. EXTERIOR LIGHT FIXTURES 'L1' & 'L4' ARE TO BE IN LINE, WITH ONE AT THE CANOPY AND ONE IN THE GROUND. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND COORDINATE WITH CIVIL FOR THE CONCRETE POUR PRIOR TO ROUGH IN.

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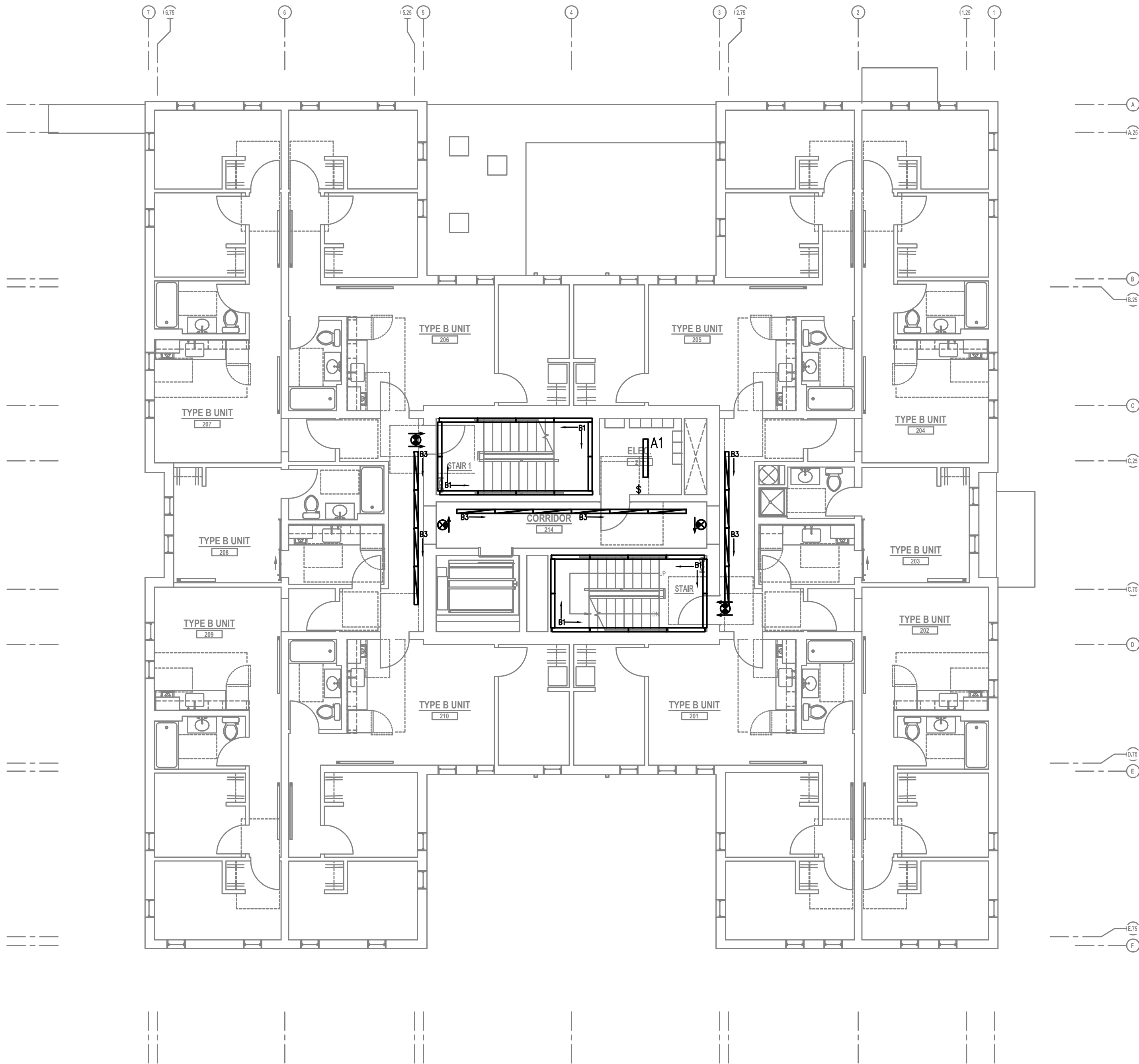
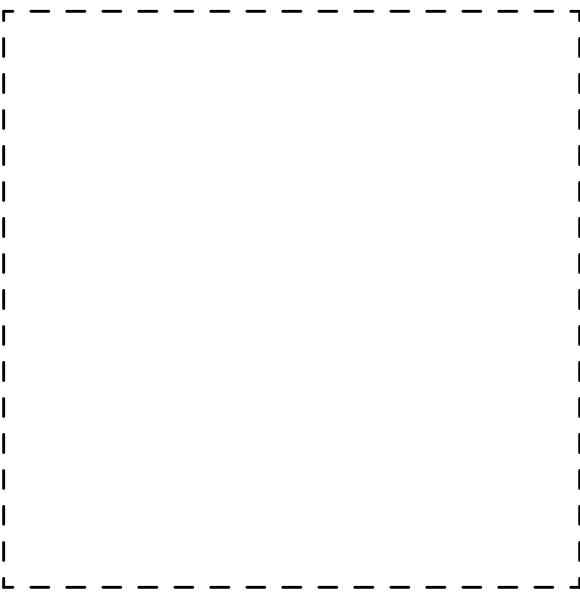
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(R226159, R226160)

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FIRST FLOOR
LIGHTING PLAN

Drawing Number
E2.01



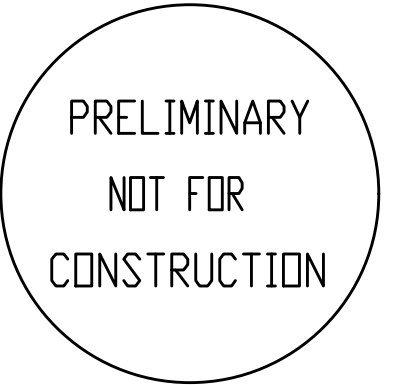
1 SECOND FLOOR LIGHTING PLAN
E2.02 SCALE: 1/8" = 1'-0"

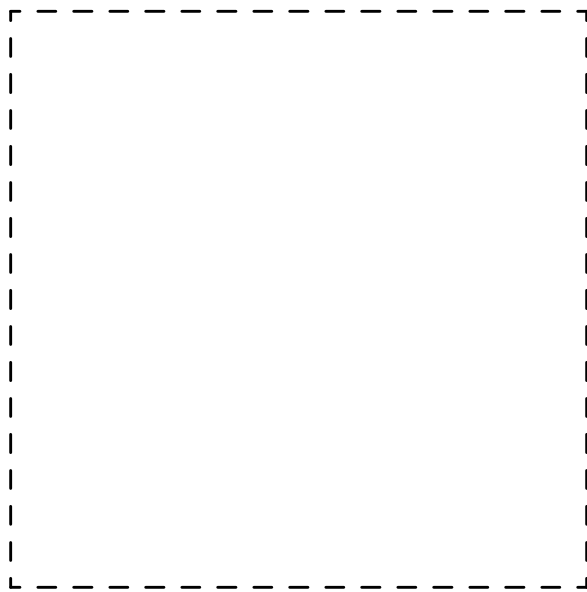
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- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL & INTERIOR DESIGN DRAWINGS FOR EXACT LOCATIONS, 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 E1.13 FOR LIGHT FIXTURE SCHEDULE.
- E. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.
- F. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE PROPER COVERAGE AND CONTROL.
- G. PROVIDE DIGITAL LIGHTING CONTROLS FOR EACH ROOM/SPACE, CONSISTING OF MULTI-BUTTON SWITCH(ES), OCC SENSORS, POWER PACKS, DAYLIGHT SENSORS, DIMMERS, INTERCONNECTING WIRING, ETC.
- H. CORRIDOR LIGHTING TO BE CONSTANT "ON" WITH CEILING MOUNTED OCCUPANCY SENSORS (OTHER MEANS) TO REDUCE LIGHT LEVELS BY 50% DURING PERIODS OF INACTIVITY.
- I. 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 E1.13.
- J. REFER TO SHEET E1.13 FOR LIGHTING CONTROL DIAGRAMS. 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.

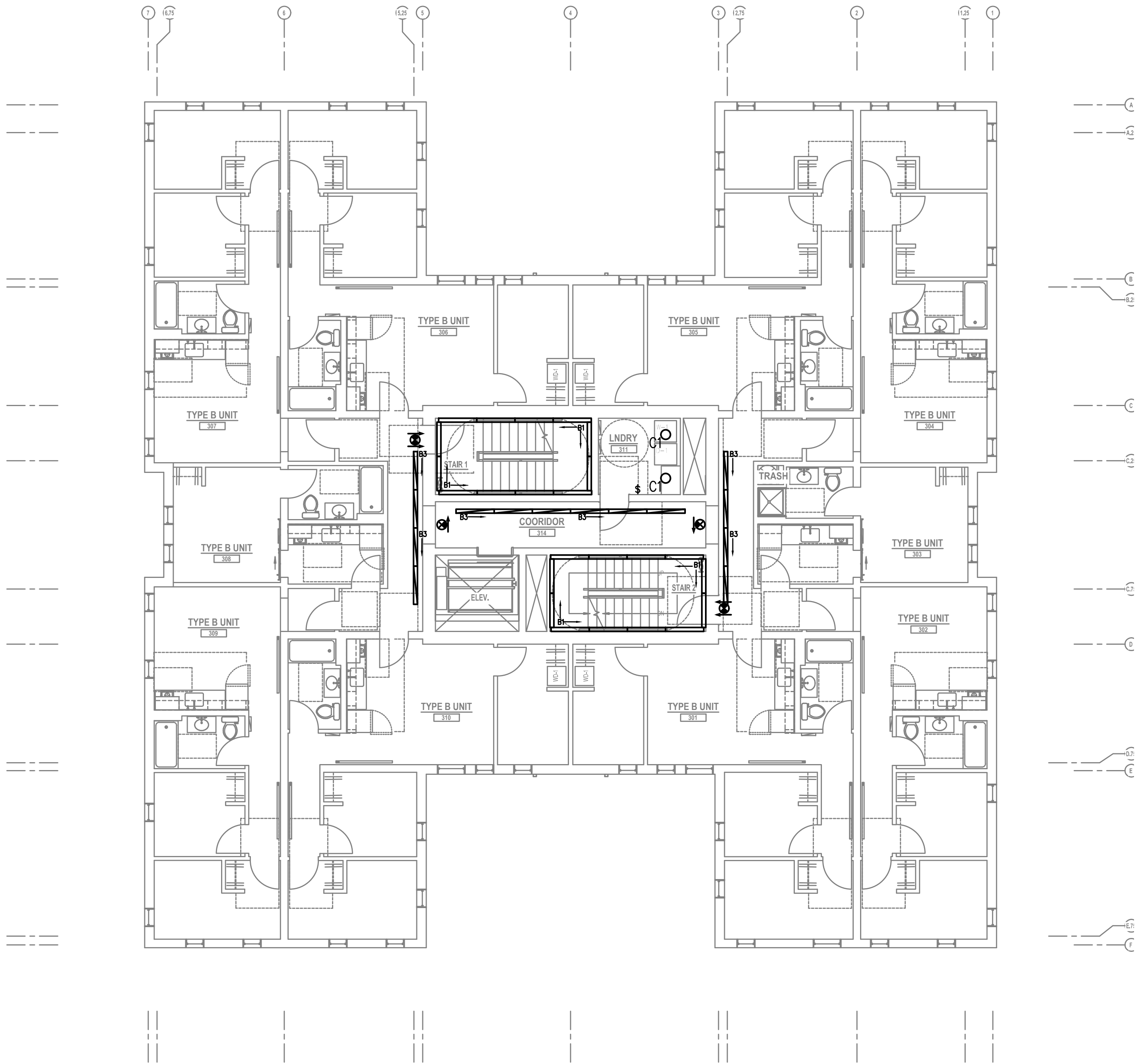
KEYED NOTES:

- 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 E1.13 FOR ADDITIONAL INFORMATION.
- 3. LIGHT FIXTURES IN THIS SPACE CONTROLLED BY CEILING MOUNT OCCUPANCY SENSOR.
- 4. PROVIDE PHOTOCELL FOR DAY-LIGHT REDUCTION OF LIGHT LEVELS.
- 5. CONTRACTOR TO COORDINATE WITH LANDSCAPE LIGHTING INSTALLER AND PROVIDE ROUGH-IN AND POWER CONNECTION(S) AS REQUIRED.
- 6. EXTERIOR LIGHT FIXTURES 'L1' & 'L4' ARE TO BE IN LINE, WITH ONE AT THE CANOPY AND ONE IN THE GROUND. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND COORDINATE WITH CIVIL FOR THE CONCRETE POUR PRIOR TO ROUGH IN.





(STUDIOS AND OFFICES TO BE SAVED)



1 THIRD FLOOR LIGHTING PLAN
E2.03 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 & INTERIOR DESIGN DRAWINGS FOR EXACT LOCATIONS, 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 E1.13 FOR LIGHT FIXTURE SCHEDULE.
- E. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.
- F. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE PROPER COVERAGE AND CONTROL.
- G. PROVIDE DIGITAL LIGHTING CONTROLS FOR EACH ROOM/SPACE, CONSISTING OF MULTI-BUTTON SWITCH(ES), OCC SENSORS, POWER PACKS, DAYLIGHT SENSORS, DIMMERS, INTERCONNECTING WIRING, ETC.
- H. CORRIDOR LIGHTING TO BE CONSTANT "ON" WITH CEILING MOUNTED OCCUPANCY SENSORS (OTHER MEANS) TO REDUCE LIGHT LEVELS BY 50% DURING PERIODS OF INACTIVITY.
- I. 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 E1.13.
- J. REFER TO SHEET E1.13 FOR LIGHTING CONTROL DIAGRAMS. 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.

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 E1.13 FOR ADDITIONAL INFORMATION.
- 3. LIGHT FIXTURES IN THIS SPACE CONTROLLED BY CEILING MOUNT OCCUPANCY SENSOR.
- 4. PROVIDE PHOTOCELL FOR DAY-LIGHT REDUCTION OF LIGHT LEVELS.
- 5. CONTRACTOR TO COORDINATE WITH LANDSCAPE LIGHTING INSTALLER AND PROVIDE ROUGH-IN AND POWER CONNECTION(S) AS REQUIRED.
- 6. EXTERIOR LIGHT FIXTURES 'L1' & 'L4' ARE TO BE IN LINE, WITH ONE AT THE CANOPY AND ONE IN THE GROUND. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND COORDINATE WITH CIVIL FOR THE CONCRETE POUR PRIOR TO ROUGH IN.

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Project Name:

MINNESOTA
PLACES

1208 N. JESSUP &
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(R226159, R226160)

PERMIT
SET

Issued:
PERMIT SET 7.29.2021

Job #: 2020
ORIGINAL SHEET SIZE: 24" x 36"
HALF SIZE: 12" x 18"

THIRD FLOOR
LIGHTING PLAN

Drawing Number
E2.03

PRELIMINARY
NOT FOR
CONSTRUCTION

M
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Project Owner:
NATIVE LAND DEVELOPMENT

Project Name:

MINNESOTA
PLACES

1208 N. JESSUP &
5627 N. MINNESOTA
(R226159, R226160)

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FOURTH FLOOR
LIGHTING PLAN

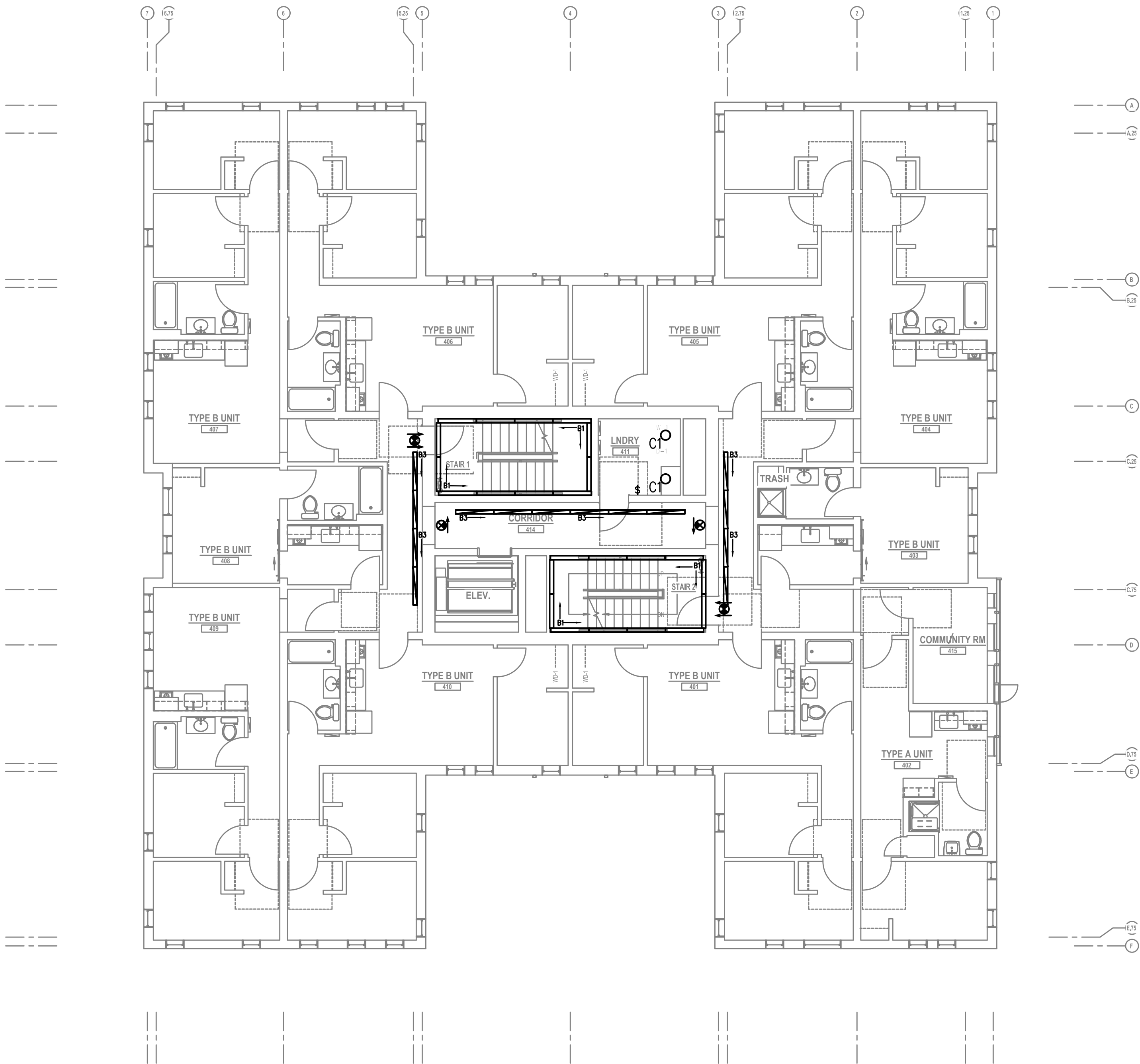
Drawing Number
E2.04

GENERAL LIGHTING NOTES:

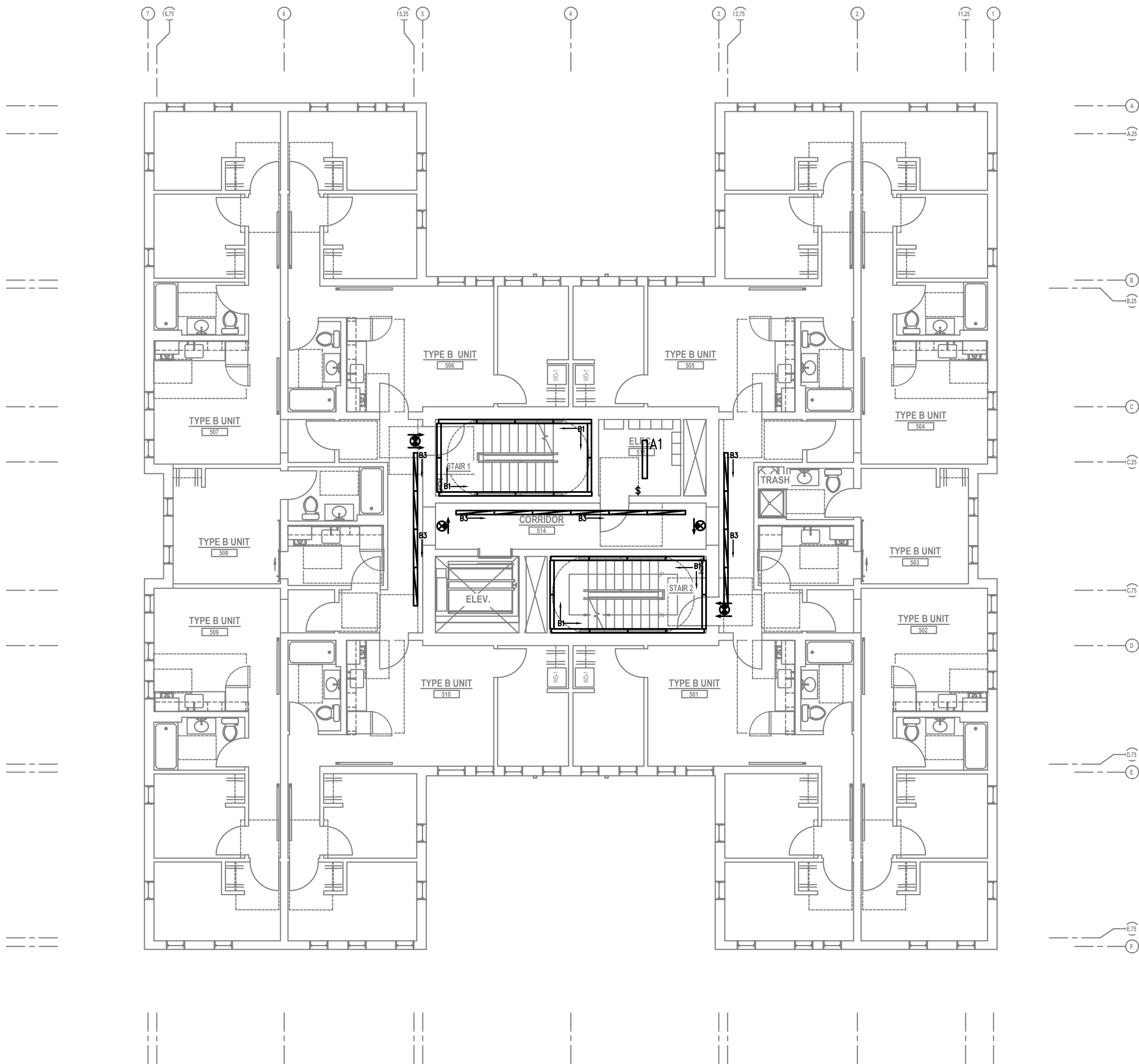
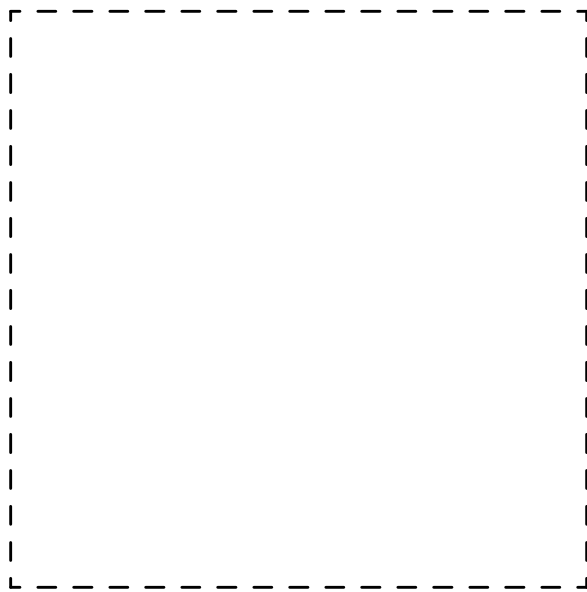
- ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL & INTERIOR DESIGN DRAWINGS FOR EXACT LOCATIONS, MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE RESIDENTIAL UNITS.
- REFER TO SHEET E1.13 FOR LIGHT FIXTURE SCHEDULE.
- REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.
- OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE PROPER COVERAGE AND CONTROL.
- PROVIDE DIGITAL LIGHTING CONTROLS FOR EACH ROOM/SPACE, CONSISTING OF MULTI-BUTTON SWITCH(ES), OCC SENSORS, POWER PACKS, DAYLIGHT SENSORS, DIMMERS, INTERCONNECTING WIRING, ETC.
- CORRIDOR LIGHTING TO BE CONSTANT "ON" WITH CEILING MOUNTED OCCUPANCY SENSORS (OTHER MEANS) TO REDUCE LIGHT LEVELS BY 50% DURING PERIODS OF INACTIVITY.
- 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 E1.13.
- REFER TO SHEET E1.13 FOR LIGHTING CONTROL DIAGRAMS. 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.

KEYED NOTES:

- CONTINUE CIRCUIT UP THROUGH THE STAIRWELL.
- EXTERIOR BUILDING LIGHTS TO BE CONTROLLED VIA INTEGRAL AND/OR REMOTE PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E1.13 FOR ADDITIONAL INFORMATION.
- LIGHT FIXTURES IN THIS SPACE CONTROLLED BY CEILING MOUNT OCCUPANCY SENSOR.
- PROVIDE PHOTOCELL FOR DAY-LIGHT REDUCTION OF LIGHT LEVELS.
- CONTRACTOR TO COORDINATE WITH LANDSCAPE LIGHTING INSTALLER AND PROVIDE ROUGH-IN AND POWER CONNECTION(S) AS REQUIRED.
- EXTERIOR LIGHT FIXTURES 'L1' & 'L4' ARE TO BE IN LINE, WITH ONE AT THE CANOPY AND ONE IN THE GROUND. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND COORDINATE WITH CIVIL FOR THE CONCRETE POUR PRIOR TO ROUGH IN.



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



1 FIFTH FLOOR LIGHTING PLAN
E2.05 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 & INTERIOR DESIGN DRAWINGS FOR EXACT LOCATIONS, 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 E1.13 FOR LIGHT FIXTURE SCHEDULE.
- E. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.
- F. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE PROPER COVERAGE AND CONTROL.
- G. PROVIDE DIGITAL LIGHTING CONTROLS FOR EACH ROOM/SPACE, CONSISTING OF MULTI-BUTTON SWITCH(ES), OCC SENSORS, POWER PACKS, DAYLIGHT SENSORS, DIMMERS, INTERCONNECTING WIRING, ETC.
- H. CORRIDOR LIGHTING TO BE CONSTANT "ON" WITH CEILING MOUNTED OCCUPANCY SENSORS (OTHER MEANS) TO REDUCE LIGHT LEVELS BY 50% DURING PERIODS OF INACTIVITY.
- I. 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 E1.13.
- J. REFER TO SHEET E1.13 FOR LIGHTING CONTROL DIAGRAMS. 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.

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 E1.13 FOR ADDITIONAL INFORMATION.
- 3. LIGHT FIXTURES IN THIS SPACE CONTROLLED BY CEILING MOUNT OCCUPANCY SENSOR.
- 4. PROVIDE PHOTOCELL FOR DAY-LIGHT REDUCTION OF LIGHT LEVELS.
- 5. CONTRACTOR TO COORDINATE WITH LANDSCAPE LIGHTING INSTALLER AND PROVIDE ROUGH-IN AND POWER CONNECTION(S) AS REQUIRED.
- 6. EXTERIOR LIGHT FIXTURES 'L1' & 'L4' ARE TO BE IN LINE, WITH ONE AT THE CANOPY AND ONE IN THE GROUND. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND COORDINATE WITH CIVIL FOR THE CONCRETE POUR PRIOR TO ROUGH IN.

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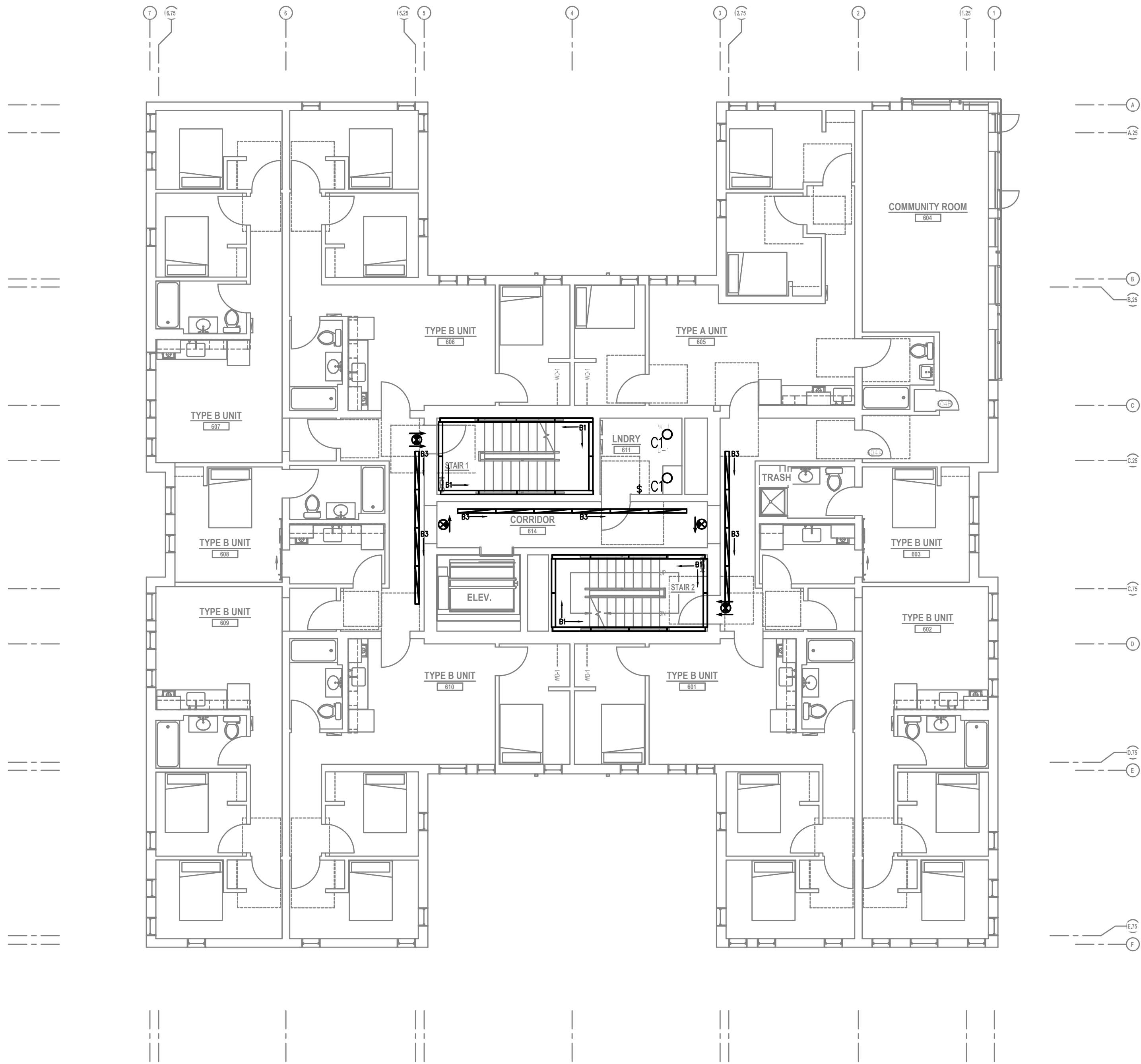
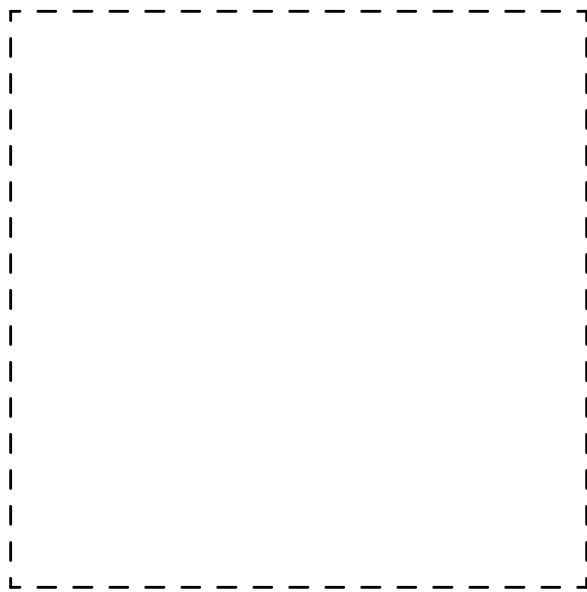
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FIFTH FLOOR
LIGHTING PLAN

Drawing Number
E2.05



1
E2.06 SIXTH FLOOR LIGHTING 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 & INTERIOR DESIGN DRAWINGS FOR EXACT LOCATIONS, 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 E1.13 FOR LIGHT FIXTURE SCHEDULE.
- E. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.
- F. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE PROPER COVERAGE AND CONTROL.
- G. PROVIDE DIGITAL LIGHTING CONTROLS FOR EACH ROOM/SPACE, CONSISTING OF MULTI-BUTTON SWITCH(ES), OCC SENSORS, POWER PACKS, DAYLIGHT SENSORS, DIMMERS, INTERCONNECTING WIRING, ETC.
- H. CORRIDOR LIGHTING TO BE CONSTANT "ON" WITH CEILING MOUNTED OCCUPANCY SENSORS (OTHER MEANS) TO REDUCE LIGHT LEVELS BY 50% DURING PERIODS OF INACTIVITY.
- I. 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 E1.13.
- J. REFER TO SHEET E1.13 FOR LIGHTING CONTROL DIAGRAMS. 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.

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 E1.13 FOR ADDITIONAL INFORMATION.
- 3. LIGHT FIXTURES IN THIS SPACE CONTROLLED BY CEILING MOUNT OCCUPANCY SENSOR.
- 4. PROVIDE PHOTOCELL FOR DAY-LIGHT REDUCTION OF LIGHT LEVELS.
- 5. CONTRACTOR TO COORDINATE WITH LANDSCAPE LIGHTING INSTALLER AND PROVIDE ROUGH-IN AND POWER CONNECTION(S) AS REQUIRED.
- 6. EXTERIOR LIGHT FIXTURES 'L1' & 'L4' ARE TO BE IN LINE, WITH ONE AT THE CANOPY AND ONE IN THE GROUND. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND COORDINATE WITH CIVIL FOR THE CONCRETE POUR PRIOR TO ROUGH IN.

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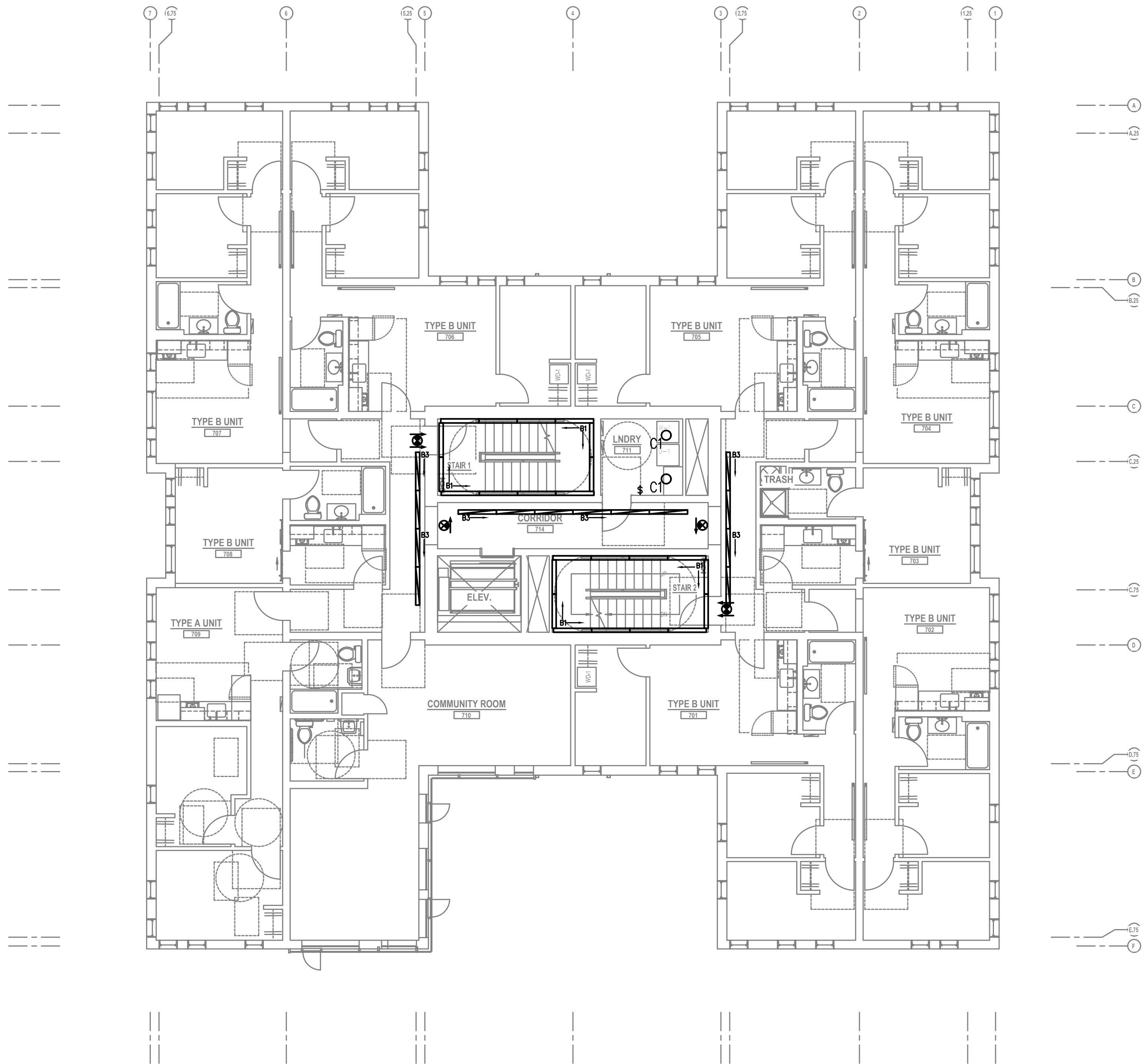
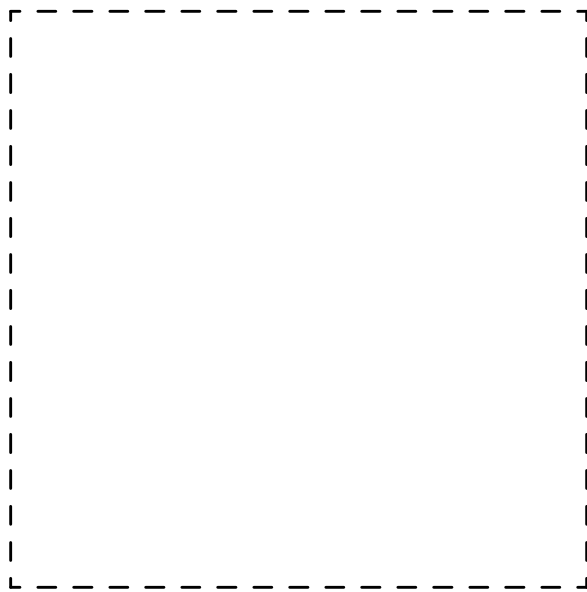
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SIXTH FLOOR
LIGHTING PLAN

Drawing Number
E2.06



1 SEVENTH FLOOR LIGHTING PLAN
E2.07 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 & INTERIOR DESIGN DRAWINGS FOR EXACT LOCATIONS, 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 E1.13 FOR LIGHT FIXTURE SCHEDULE.
- E. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.
- F. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE PROPER COVERAGE AND CONTROL.
- G. 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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- I. 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 E1.13.
- J. REFER TO SHEET E1.13 FOR LIGHTING CONTROL DIAGRAMS. 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.

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 E1.13 FOR ADDITIONAL INFORMATION.
- 3. LIGHT FIXTURES IN THIS SPACE CONTROLLED BY CEILING MOUNT OCCUPANCY SENSOR.
- 4. PROVIDE PHOTOCELL FOR DAY--LIGHT REDUCTION OF LIGHT LEVELS.
- 5. CONTRACTOR TO COORDINATE WITH LANDSCAPE LIGHTING INSTALLER AND PROVIDE ROUGH--IN AND POWER CONNECTION(S) AS REQUIRED.
- 6. EXTERIOR LIGHT FIXTURES 'L1' & 'L4' ARE TO BE IN LINE, WITH ONE AT THE CANOPY AND ONE IN THE GROUND. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND COORDINATE WITH CIVIL FOR THE CONCRETE POUR PRIOR TO ROUGH IN.

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SEVENTH FLOOR
LIGHTING PLAN

Drawing Number
E2.07

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

GENERAL POWER 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. WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES.
- C. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR, AS REQUIRED. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- D. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS AS REQUIRED. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.
- E. COORDINATE WITH DIVISION 23 FOR EXACT LOCATION AND POWER REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH IN. REFER TO SHEET E1.13 FOR MECHANICAL EQUIPMENT SCHEDULE.
- F. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- G. ELECTRICAL CONTRACTOR SHALL REFER TO THE 'T' SERIES SHEETS AND PROVIDE ROUGH IN FOR THE LOW VOLTAGE SYSTEMS/FIRE ALARM INSTALLER.
- L. REFER TO 'E4' SERIES SHEETS FOR TYPICAL DWELLING UNIT POWER PLANS.
- H. SERVICE ENTRANCE AND METERING EQUIPMENT SHOWN TO APPROXIMATE SCALE, BASED ON SIEMENS PRODUCTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT INSTALLED EQUIPMENT FITS THE SPACE PROVIDED AND THAT ALL REQUIRED WORKING CLEARANCES ARE PROVIDED.
- I. THE CLASS 'A' TRANSFORMER VAULT SHALL BE IN ACCORDANCE WITH NEC REQUIREMENTS AS WELL AS THOSE OF THE UTILITY PROVIDER. MAN-DOOR(S) SHALL BE EQUIPPED WITH PANIC HARDWARE AND AN OUTWARD SWING.
- J. RESIDENTIAL METERS LOCATED ON FLOORS 2 & 5.
- K. METER ROOM DOORS SHALL BE EQUIPPED WITH PANIC HARDWARE AND AN OUTWARD SWING.
- L. CONDUIT & CONDUCTORS ROUTED FROM THE ELECTRICAL ROOM AND BUILDING METER ROOMS SHALL BE ROUTED THROUGH DESIGNATED SHAFTS AND STRUCTURAL OPENINGS. WHERE CONDUITS AND CONDUCTORS CAN NOT BE ROUTED THROUGH A CEILING SPACE, CONDUITS SHALL BE TIGHT TO STRUCTURE IN A CLEAN AND NEAT MANNER.

KEYED POWER NOTES:

1. PROVIDE 24/7 ACCESS FOR THE UTILITY PROVIDER, TO THE METER ROOM AND TRANSFORMER ROOM BY PROVIDING AN APPROVED KEY BOX.
2. GENERATOR EMERGENCY DISCONNECT.
3. BUILDING STAND BY/EMERGENCY GENERATOR. REFER TO SHEET E1.11 FOR ADDITIONAL INFORMATION.
4. 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. PROVIDE ROUGH IN AND/OR FINAL ELECTRICAL POWER CONNECTIONS & DEVICES. REFER PANEL 'XX' SCHEDULE ON E1.12 FOR CIRCUITS.
5. CONSULT ELEVATOR PROVIDER FOR EXACT POWER REQUIREMENTS AND PROVIDE ALL ELECTRICAL WORK AS DIRECTED. VERIFY EXACT LOCATION FOR ELEVATOR EQUIPMENT WITH ARCHITECT AND COORDINATE WITH ELEVATOR INSTALLER.
6. PROVIDE ROUGH IN AND WIRING FOR ACCESS CONTROL. REFER TO 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
7. LAUNDRY ROOM GFCI RECEPTACLES FOR WASHING MACHINES TO BE MOUNTED AT 42" A.F.F., OR UNLESS OTHERWISE DIRECTED BY THE ARCHITECT. LAUNDRY ROOM APPLIANCES CIRCUITED TO PANEL 'XX'. REFER TO PANEL SCHEDULE ON SHEET E1.12.
4. 40A, DEDICATED 14-40R DRYER RECEPTACLE (TYPICAL). VERIFY EXACT POWER RATING REQUIRED FOR THE COMMERCIAL DRYERS PRIOR TO ORDERING. LAUNDRY ROOM APPLIANCES CIRCUITED TO PANEL 'XX'. REFER TO PANEL SCHEDULE ON SHEET E1.12.
5. EXHAUST FAN IN THIS AREA TO BE TIED INTO THE LIGHTING CIRCUIT.
6. STRUCTURAL OPENING TO BE USED FOR CONDUIT AND CONDUCTOR PENETRATION FROM THE CORE SPACE TO THE CORRIDORS. CONSULT STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.

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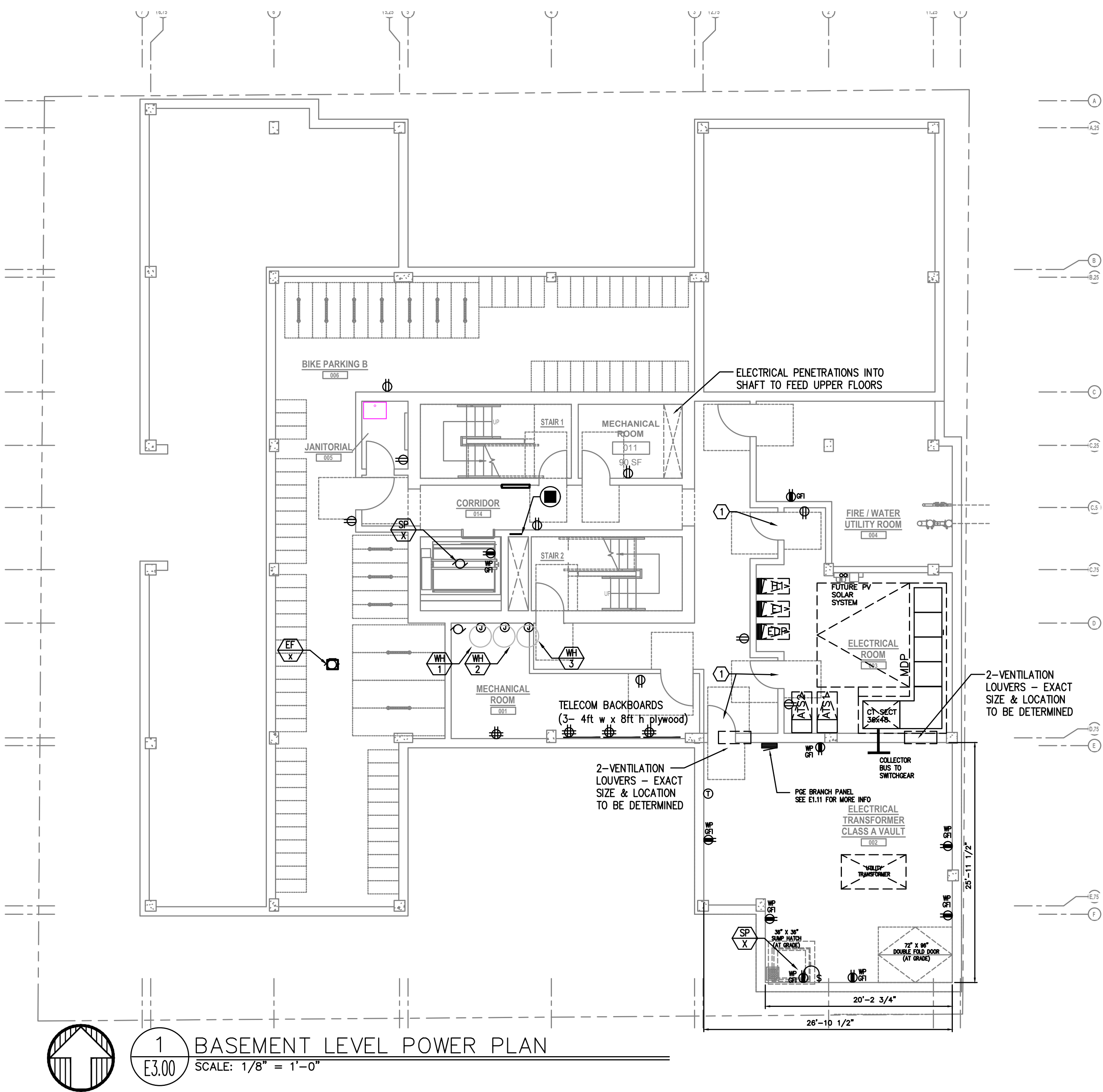
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BASEMENT
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POWER PLAN

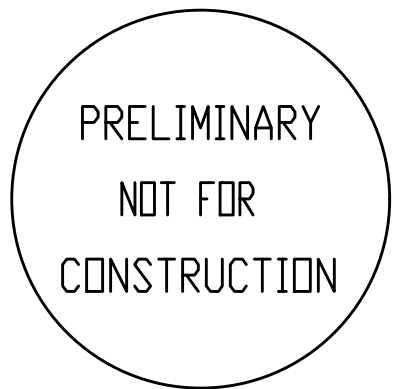
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E3.00



CLASS A TRANSFORMER VAULT GENERAL NOTES

1. VAULT ROOM DOORS SHALL BE BLAST-RATED METAL DOORS. DOORS AND VENT SHUTTERS MUST HAVE A THREE HOUR BLAST & FIRE RATING PER NFPA 450.43.
2. VAULT VENTS MUST HAVE SHUTTERS THAT ARE AUTOMATICALLY CLOSED BY THE HEAT DETECTOR IN THE FIRE SUPPRESSION SYSTEM HEAT DETECTORS SHALL MEET NFPA 72 REQUIREMENTS.
3. PROVIDE TWO "RATE TO RISE" HEAT DETECTORS PER THE UTILITY PROVIDER'S REQUIREMENTS. LOCATE ONE ABOVE THE TRANSFORMER AND ONE OTHER WITHIN THE ROOM.
4. ALL OPENING, GAPS & CRACKS MUST BE SEALED WITH THREE-HOUR RATED FIRE CAULKING. CONSULT UTILITY PROVIDER FOR APPROVED PRODUCTS.
5. NON-METALIC SEISMIC-APPROVED CABLE TRAY WITH GALVANIZED HARDWARE SHALL BE INSTALLED IN VAULT ROOMS WITH CEILING GREATER THAN 10 FEET HIGH.
6. ALL MATERIALS AND PRODUCTS USED WITHIN THE CLASS A VAULT IS SUBJECT TO THE UTILITY PROVIDER'S APPROVAL.
7. PRIMARY SERVICE CONDUCTORS FROM THE PROPERTY LINE TO THE VAULT SHALL BE IN SCHEDULE 40 PVC PER THE UTILITY PROVIDER'S DIRECTION. ALL CONDUIT PENETRATIONS MUST BE SEALED WITH A FLEXIBLE NON-SHRINK HYDROPHOBIC GROUT TO PREVENT WATER INTRUSION.
8. THE CLASS A VAULT SHALL BE PROVIDED WITH BOTH EQUIPMENT AND UFER GROUNDING PER THE UTILITY PROVIDER'S REQUIREMENTS.
9. PROVIDE TWO DIRECT UFER GROUND CONNECTIONS TO THE BUILDING FOOTER OR SOLDIER PILING. CONNECTIONS TO BE LOCATED AT OPPOSITE CORNERS OF THE VAULT FLOOR IN ACCORDANCE WITH NEC 250.
10. PROVIDE A CONTINUOUS LOOP OF 250MCM BARE COPPER AROUND THE ROOM AT 24 INCHES ABOVE THE FLOOR, WITH HUBS AT 5-FOOT INTERVALS.
11. REFER TO E2 SERIES SHEETS FOR LIGHTING WITHIN THE VAULT ROOM.
12. THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH THE UTILITY PROVIDER AND THE PROVIDER'S REQUIREMENTS FOR CLASS A TRANSFORMER VAULTS PRIOR TO THE START OF ANY WORK. THE UTILITY PROVIDER IS THE AUTHORITY REGARDING ALL ASPECTS OF THE VAULT ROOM



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FIRST FLOOR
POWER PLAN

Drawing Number

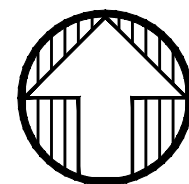
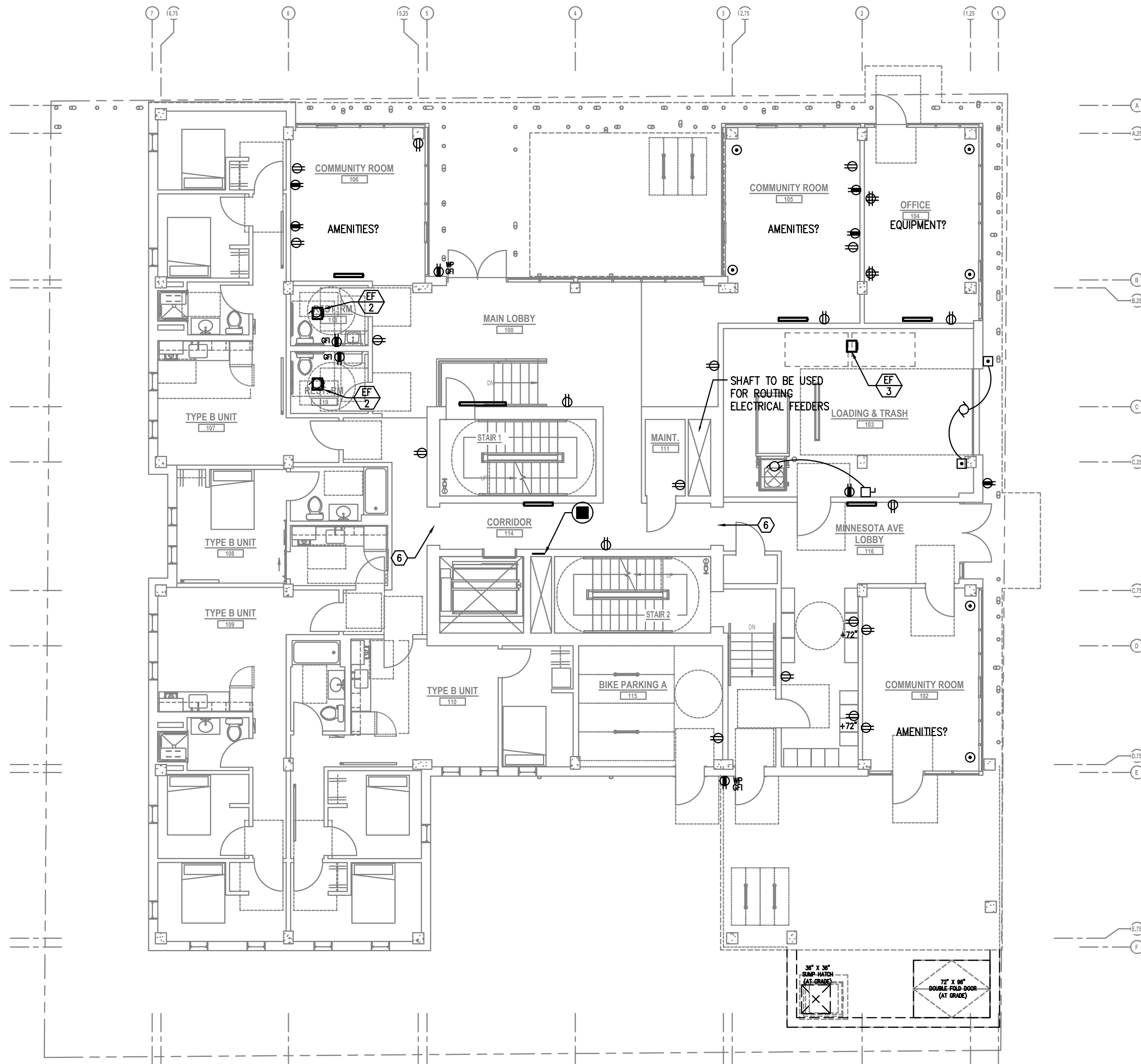
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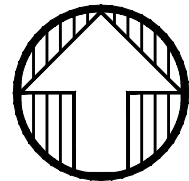
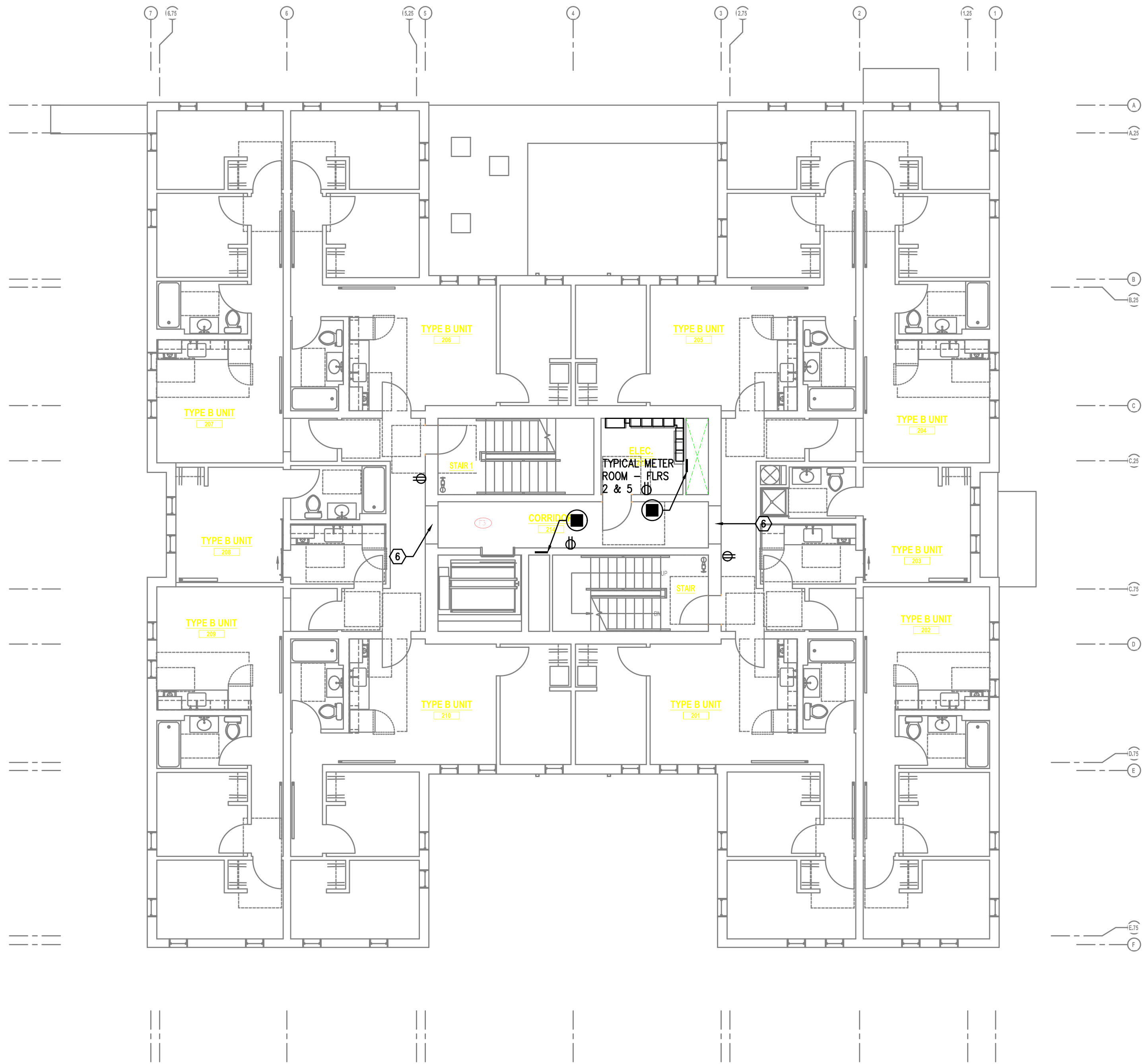
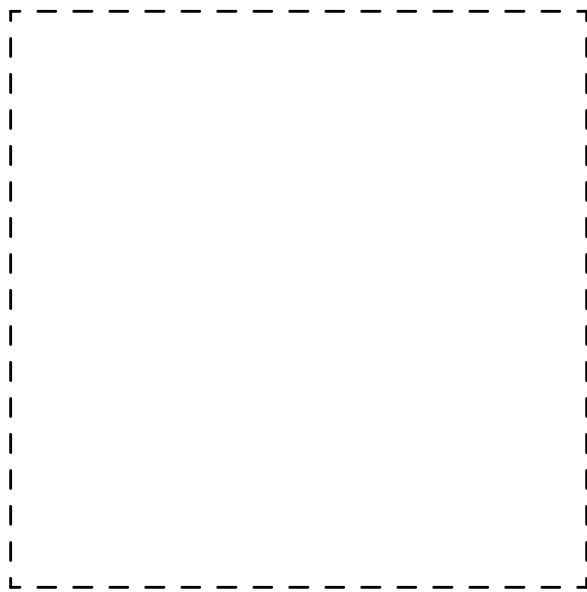
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KEYED POWER NOTES:

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



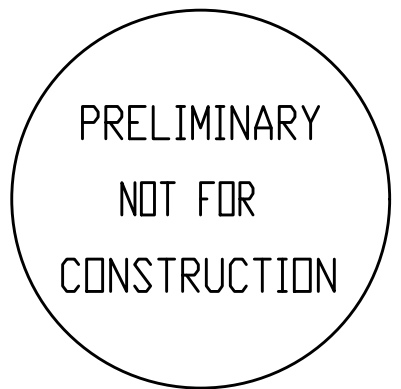
1 SECOND FLOOR POWER PLAN
E3.02 SCALE: 1/8" = 1'-0"

GENERAL POWER NOTES:

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- F. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- G. ELECTRICAL CONTRACTOR SHALL REFER TO THE 'T' SERIES SHEETS AND PROVIDE ROUGH FOR THE LOW VOLTAGE SYSTEMS/FIRE ALARM INSTALLER.
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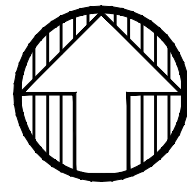
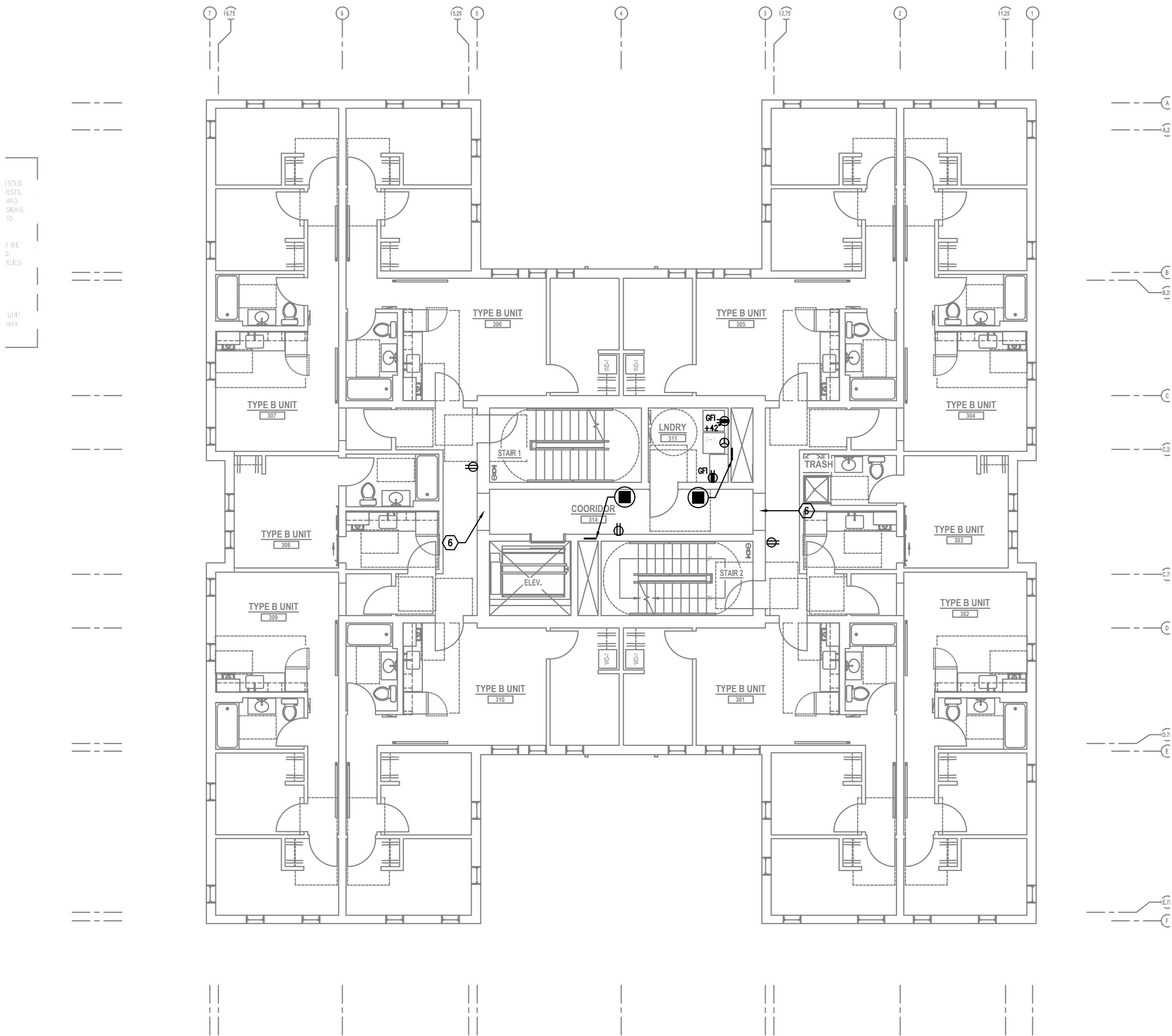
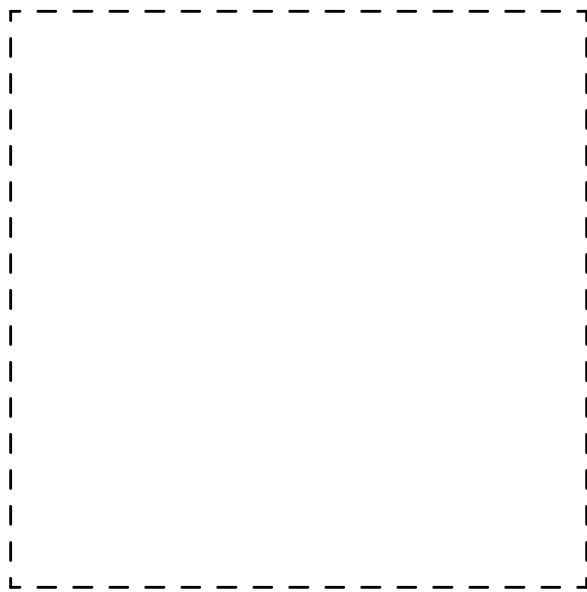
Project Name:
MINNESOTA
PLACES

1208 N. JESSUP &
5627 N. MINNESOTA
(R226159, R226160)

PERMIT
SET

Issued:	
PERMIT SET	7.29.2021
Job #:	2020
ORIGINAL SHEET SIZE: 24" x 36"	
HALF SIZE: 12" x 18"	

SECOND FLOOR
POWER PLAN



1
E3.03

THIRD FLOOR POWER PLAN

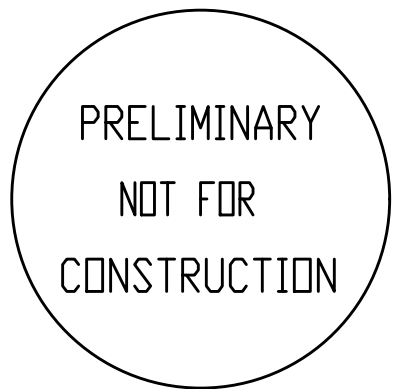
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MINNESOTA
PLACES

1208 N. JESSUP &
5627 N. MINNESOTA
(R226159, R226160)

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Issued:
PERMIT SET 7.29.2021

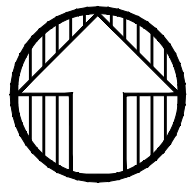
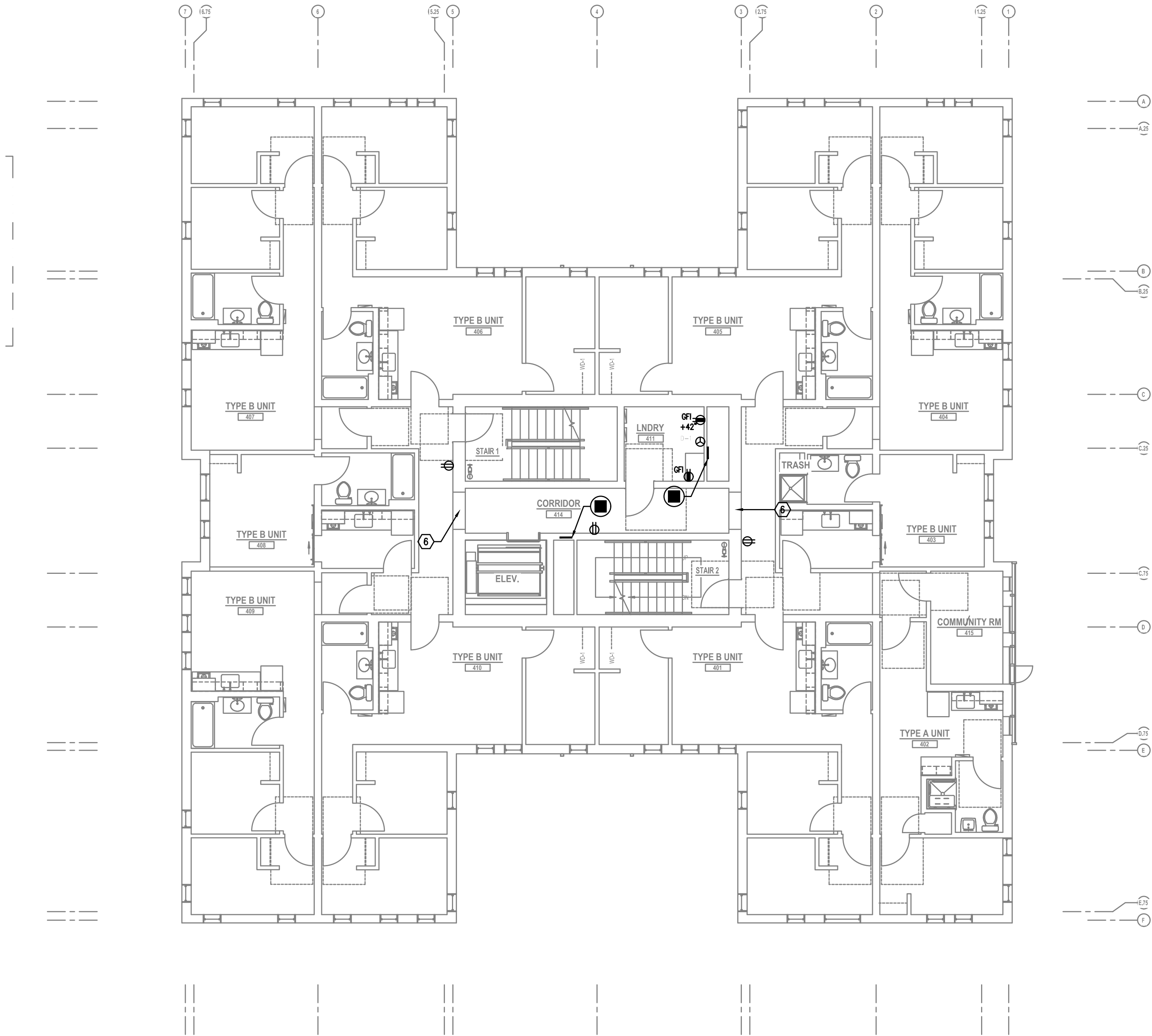
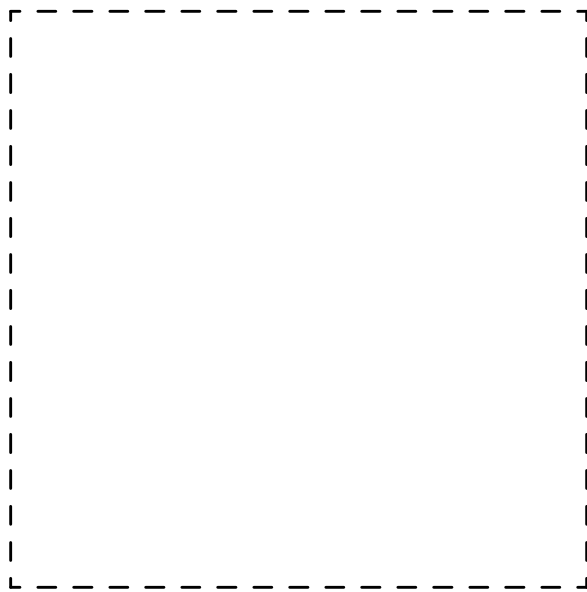
Job #: 2020

ORIGINAL SHEET SIZE: 24" x 36"
HALF SIZE: 12" x 18"

THIRD FLOOR
POWER PLAN

Drawing Number

E3.03



1
E3.04

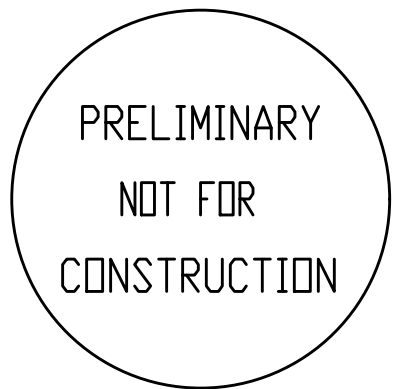
FOURTH FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"

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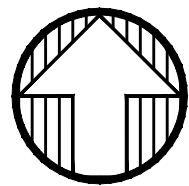
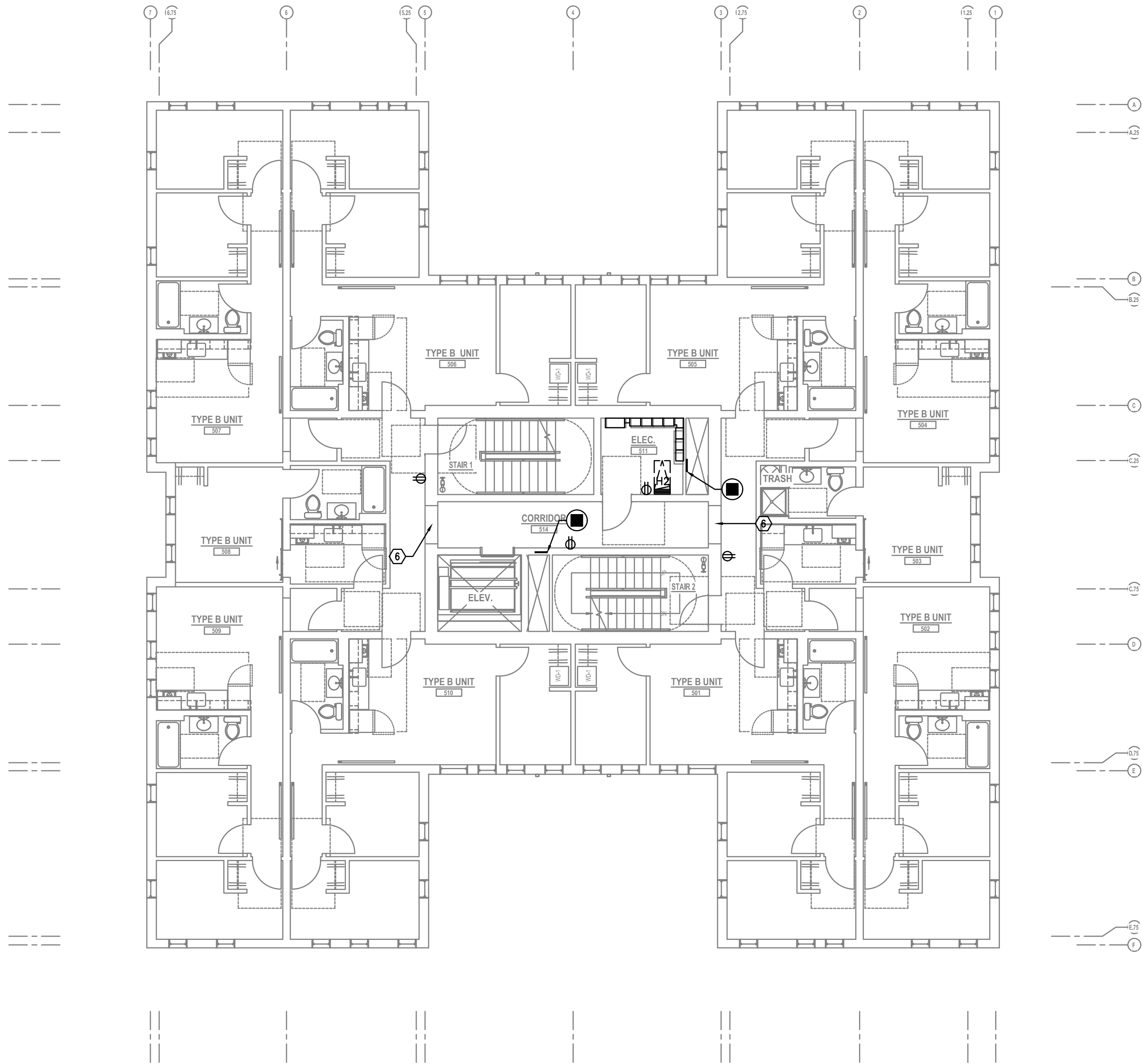
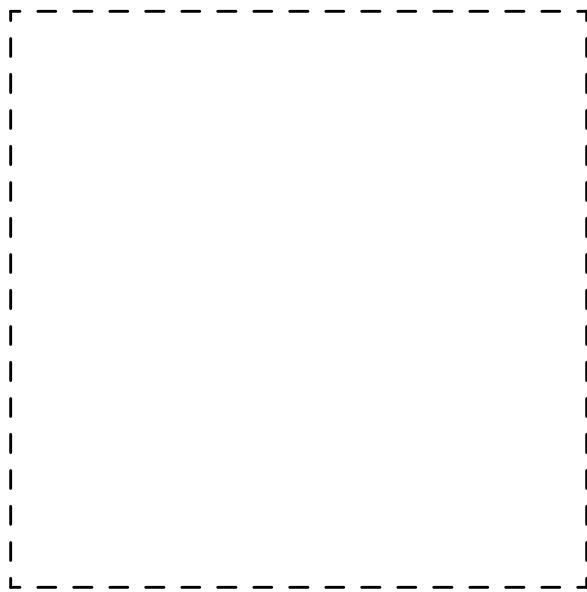
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FOURTH FLOOR
POWER PLAN



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

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PRELIMINARY
NOT FOR
CONSTRUCTION

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Project Owner:
NATIVE LAND DEVELOPMENT

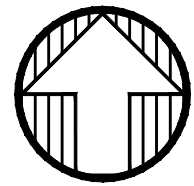
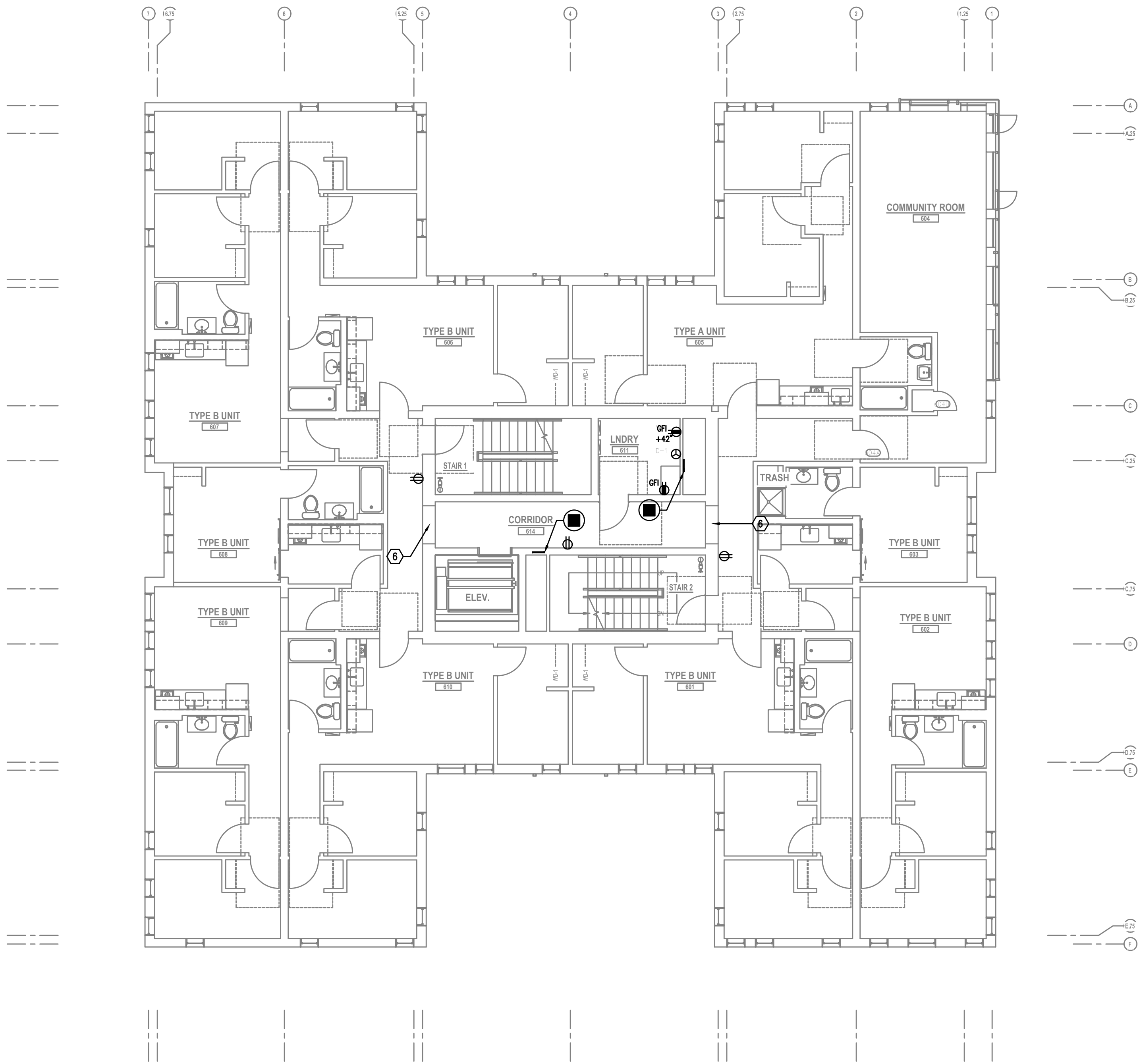
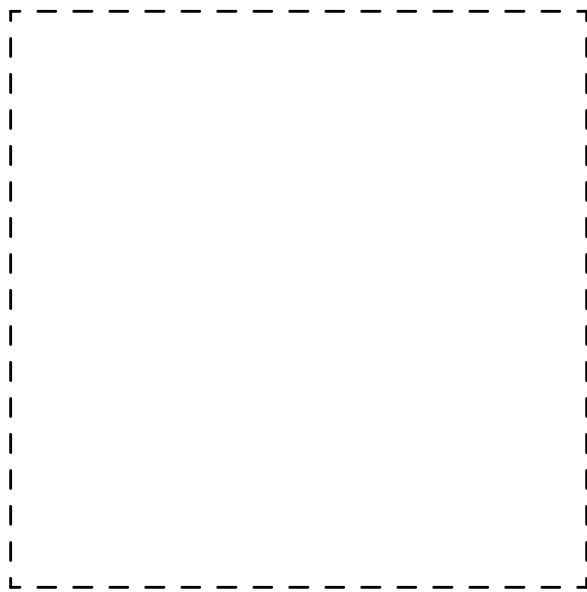
Project Name:
MINNESOTA
PLACES
1208 N. JESSUP &
5627 N. MINNESOTA
(R226159, R226160)

PERMIT
SET

Issued:
PERMIT SET 7.29.2021
Job #:
2020
ORIGINAL SHEET SIZE: 24" x 36"
HALF SIZE: 12" x 18"

FIFTH FLOOR
POWER PLAN

Drawing Number
E3.05



1
E3.06

SIXTH FLOOR POWER PLAN

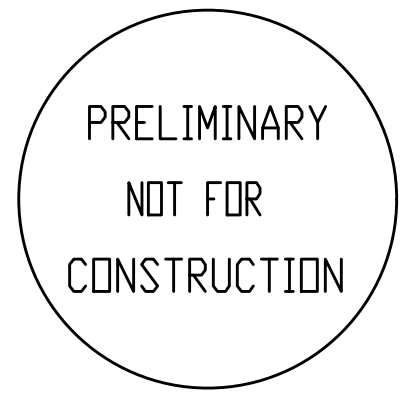
SCALE: 1/8" = 1'-0"

GENERAL POWER 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. WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND NATIONAL CO
- C. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR, AS REQUIRED. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- D. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS AS REQUIRED. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMEN
- E. COORDINATE WITH DIVISION 23 FOR EXACT LOCATION AND POWER REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH IN. REFER TO SHEET E1.13 FOR MECHANICAL EQUIPMENT SCHEDULE.
- F. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- G. ELECTRICAL CONTRACTOR SHALL REFER TO THE 'T' SERIES SHEETS AND PROVIDE ROUGH FOR THE LOW VOLTAGE SYSTEMS/FIRE ALARM INSTALLER.
- L. REFER TO 'E4' SERIES SHEETS FOR TYPICAL DWELLING UNIT POWER PLANS.
- H. SERVICE ENTRANCE AND METERING EQUIPMENT SHOWN TO APPROXIMATE SCALE, BASED C SIEMENS PRODUCTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT INSTALLE EQUIPMENT FITS THE SPACE PROVIDED AND THAT ALL REQUIRED WORKING CLEARANCES ARE PROVIDED.
- I. THE CLASS 'A' TRANSFORMER VAULT SHALL BE IN ACCORDANCE WITH NEC REQUIREMENT: AS WELL AS THOSE OF THE UTILITY PROVIDER. MAN-DOOR(S) SHALL BE EQUIPPED WITH PANIC HARDWARE AND AN OUTWARD SWING.
- J. RESIDENTIAL METERS LOCATED ON FLOORS 2 & 5.
- K. METER ROOM DOORS SHALL BE EQUIPPED WITH PANIC HARDWARE AND AN OUTWARD SWI
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KEYED POWER NOTES:

- 1. PROVIDE 24/7 ACCESS FOR THE UTILITY PROVIDER, TO THE METER ROOM AND TRANSFORMER ROOM BY PROVIDING AN APPROVED KEY BOX.
- 2. GENERATOR EMERGENCY DISCONNECT.
- 3. BUILDING STAND BY/EMERGENCY GENERATOR. REFER TO SHEET E1.11 FOR ADDITIONAL INFORMATION.
- 4. 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. PROVIDE ROUGH IN AND/OR FINAL ELECTRICAL POWER CONNECTIONS & DEVICES. REFER PANEL 'XX' SCHEDULE ON E1.12 FOR CIRCUITS
- 5. CONSULT ELEVATOR PROVIDER FOR EXACT POWER REQUIREMENTS AND PROVIDE ALL ELECTRICAL WORK AS DIRECTED. VERIFY EXACT LOCATION FOR ELEVATOR EQUIPMENT WITH ARCHITECT AND COORDINATE WITH ELEVATOR INSTALLER.
- 6. PROVIDE ROUGH IN AND WIRING FOR ACCESS CONTROL. REFER TO 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
- 7. LAUNDRY ROOM GFCI RECEPTACLES FOR WASHING MACHINES TO BE MOUNTED AT 42" A.F.F., OR UNLESS OTHERWISE DIRECTED BY THE ARCHITECT. LAUNDRY ROOM APPLIANCE CIRCUITED TO PANEL 'XX'. REFER TO PANEL SCHEDULE ON SHEET E1.12.
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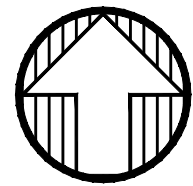
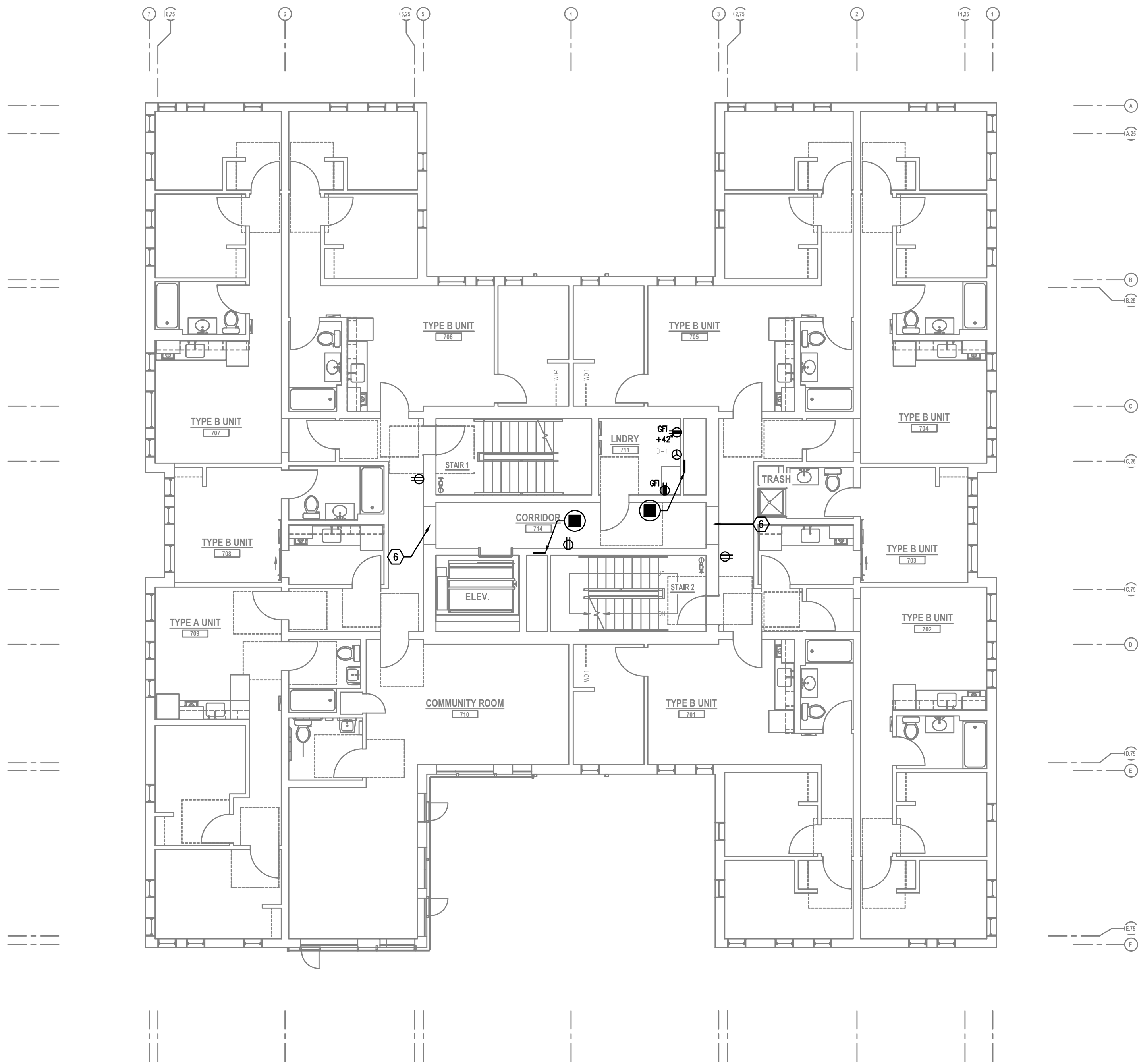
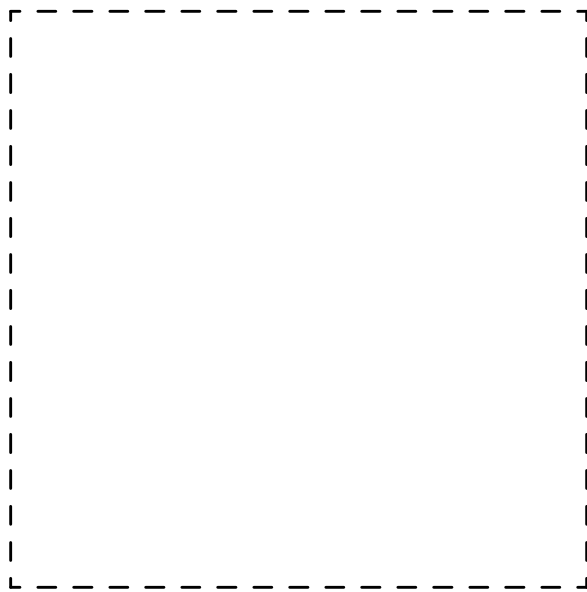
MINNESOTA
PLACES

1208 N. JESSUP &
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SIXTH FLOOR
POWER PLAN



1
E3.07

SEVENTH FLOOR POWER PLAN

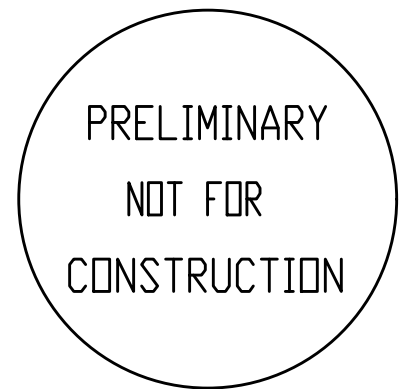
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KEYED POWER NOTES:

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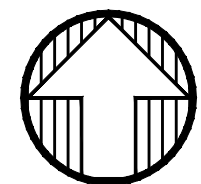
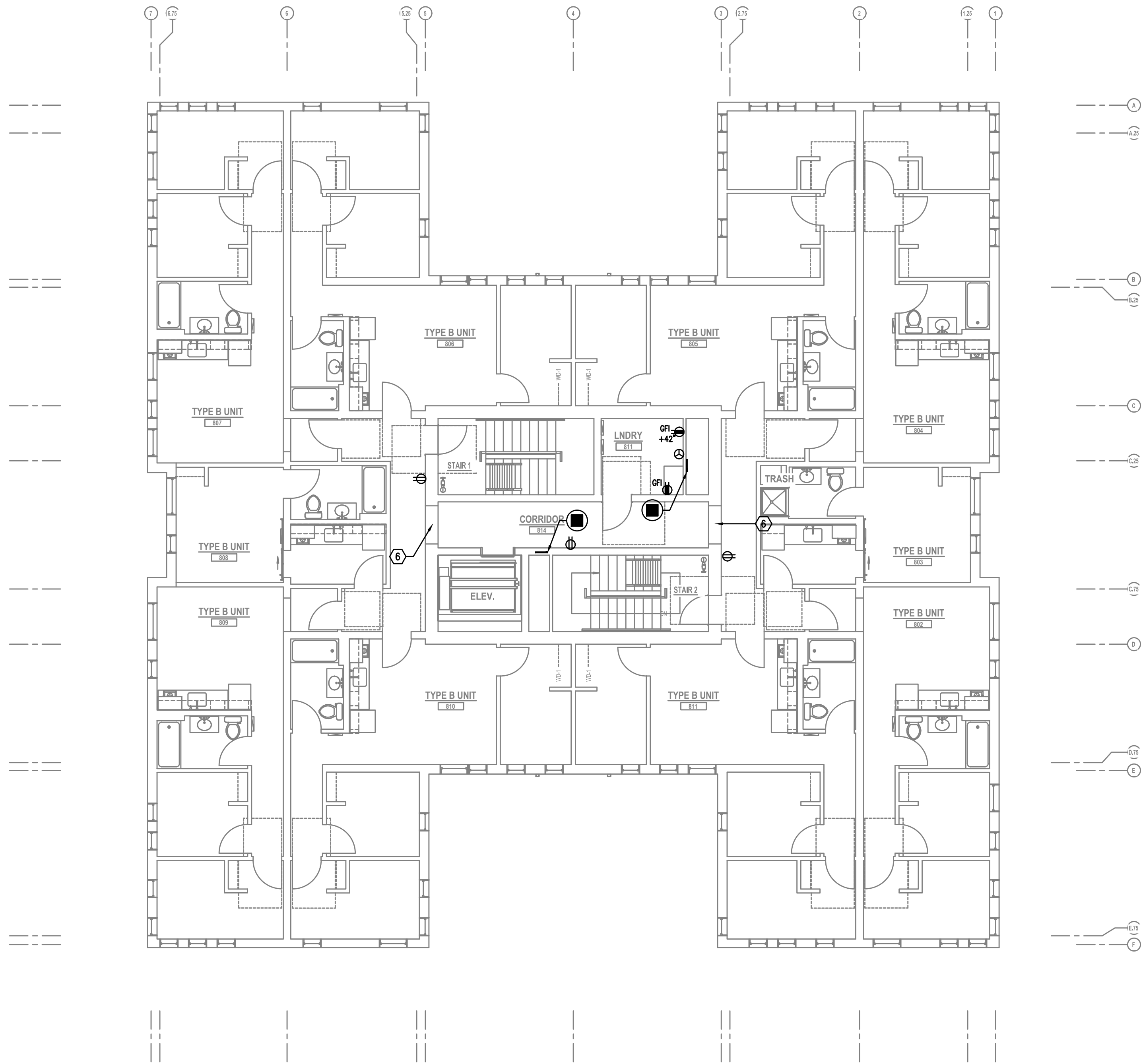
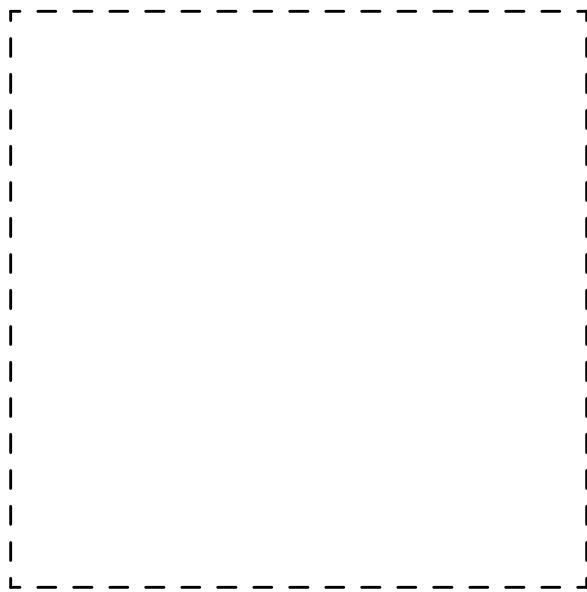
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SEVENTH FLOOR
POWER PLAN



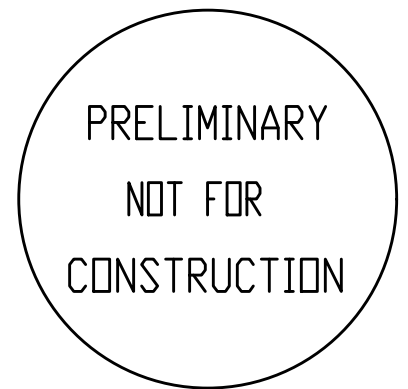
1 EIGHTH FLOOR POWER PLAN
E3.08 SCALE: 1/8" = 1'-0"

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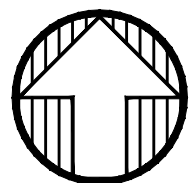
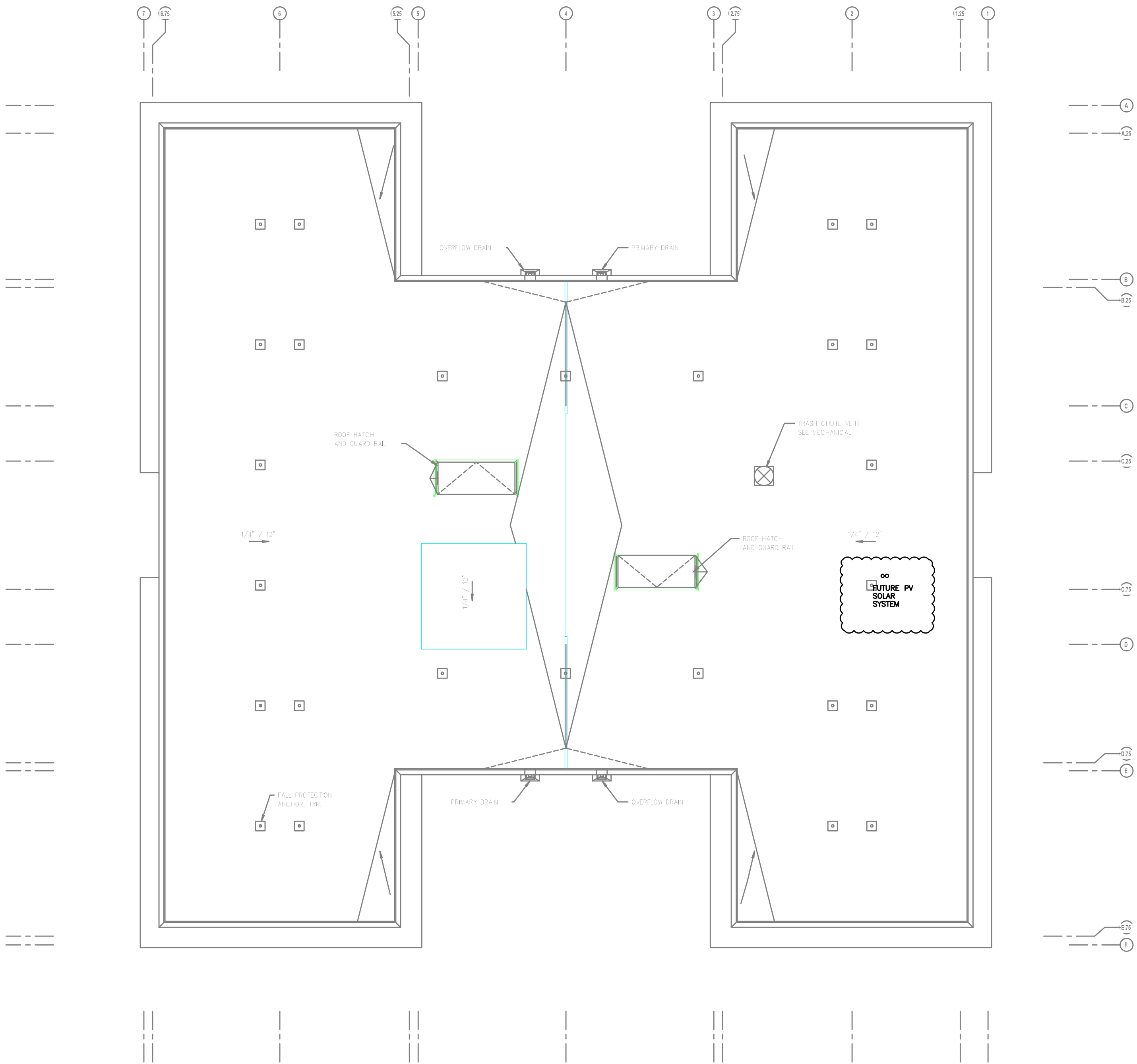
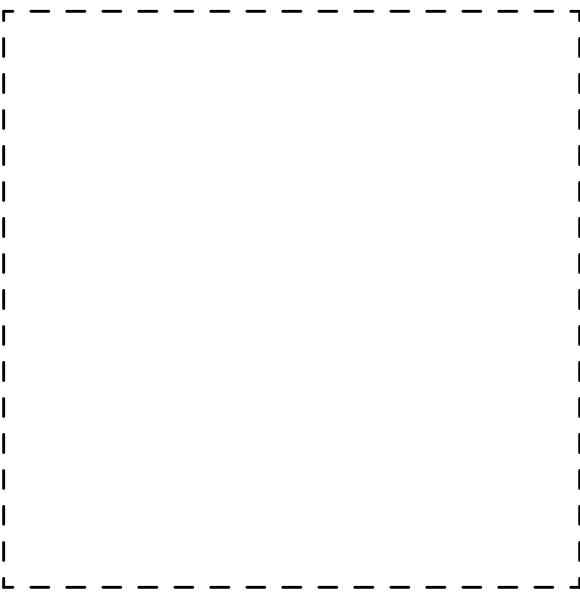
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EIGHTH FLOOR POWER PLAN



1
E3.09

ROOF LEVEL POWER PLAN

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

GENERAL POWER NOTES:

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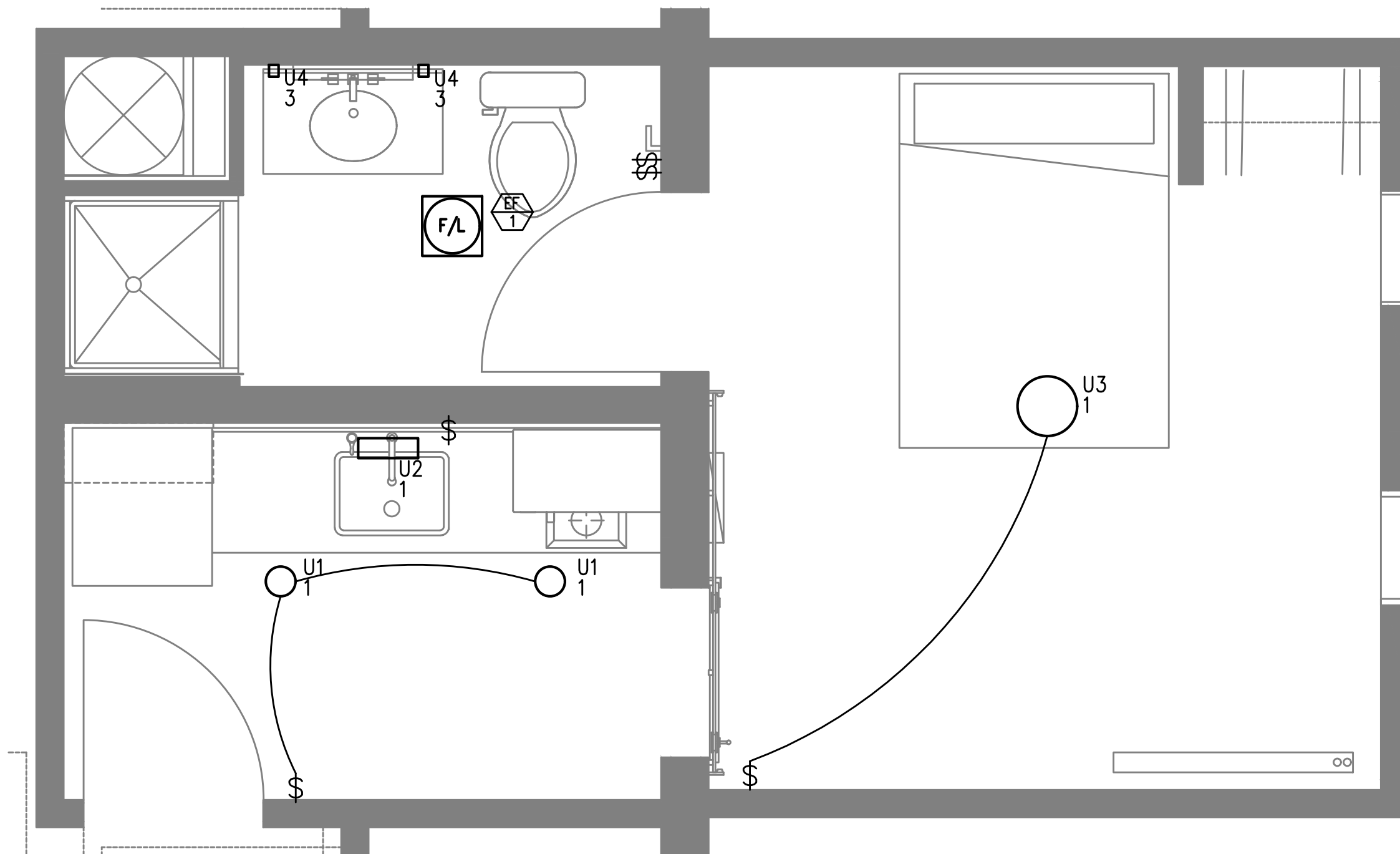
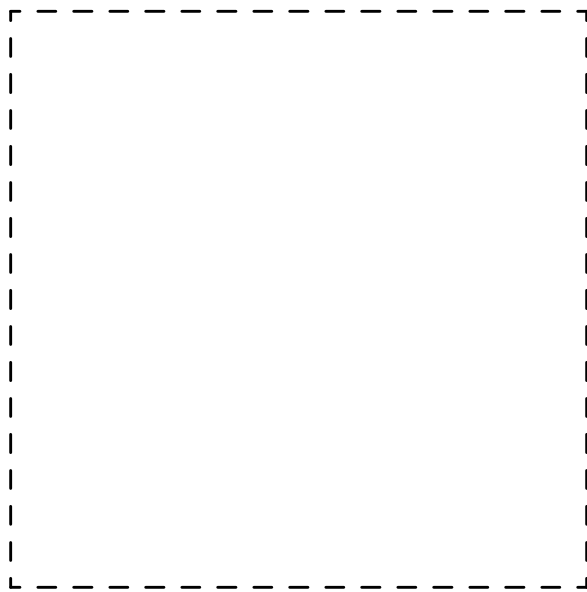
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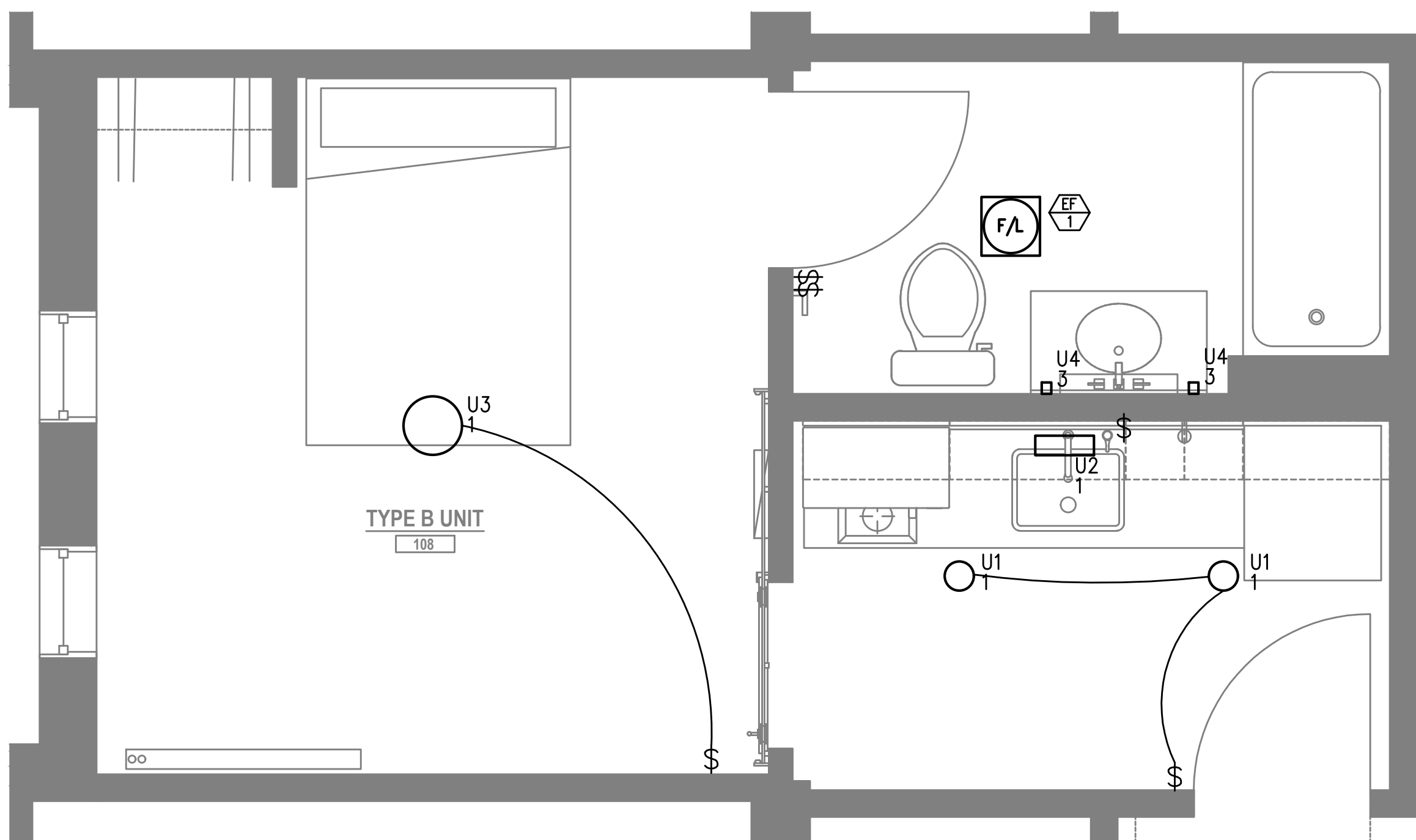
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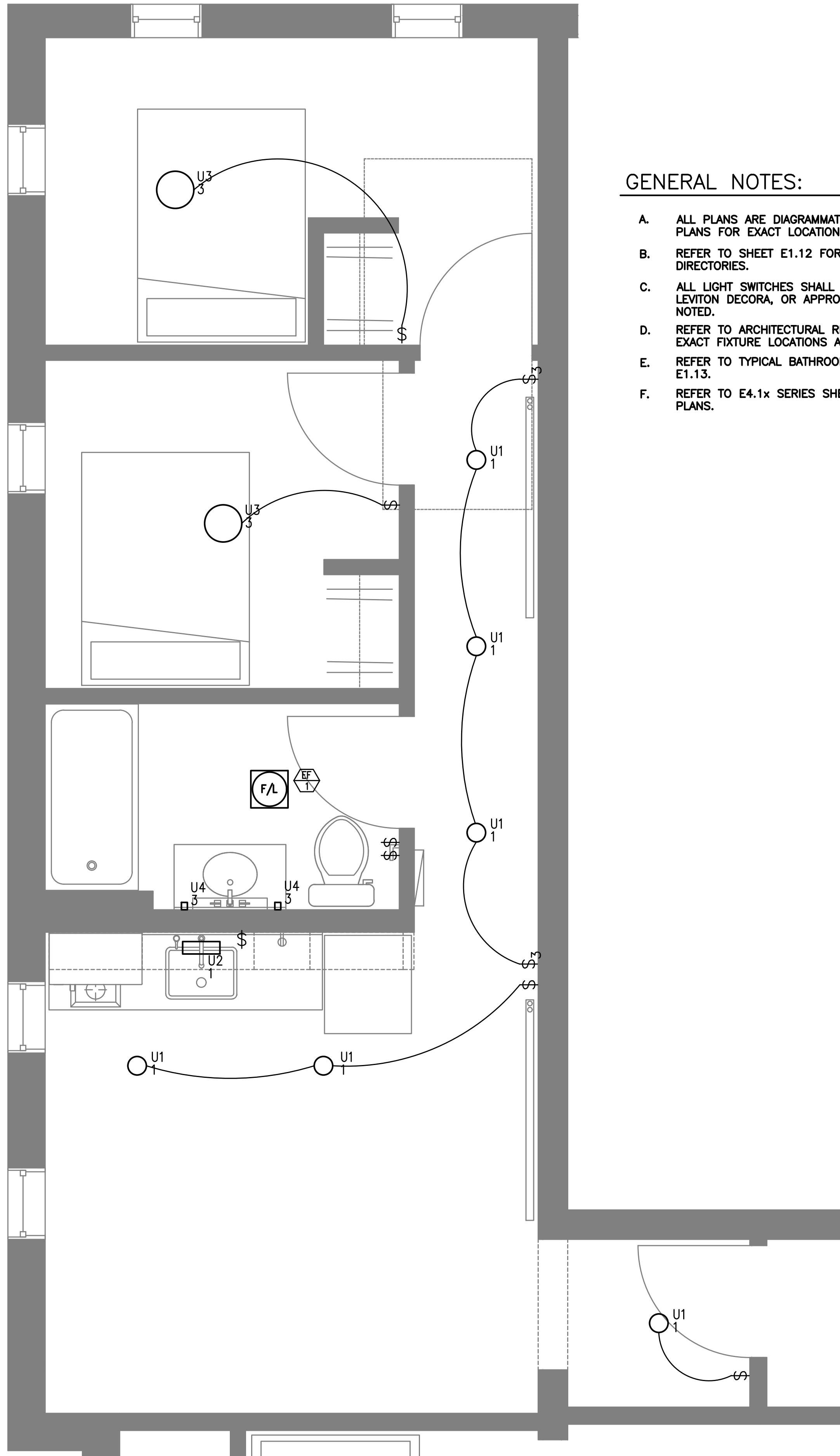
ROOF LEVEL
POWER PLAN



1-BRM UNIT TYPE B
TYPICAL — LIGHTING PLAN
SCALE: 1/2" = 1'-0"



1-BRM UNIT TYPE B
LEVEL 1 — LIGHTING PLAN
SCALE: 1/2" = 1'-0"



2-BRM UNIT TYPE B
TYPICAL — LIGHTING PLAN
SCALE: 1/2" = 1'-0"

GENERAL NOTES:

- ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL DEVICES AND FIXTURES.
- REFER TO SHEET E1.12 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
- ALL LIGHT SWITCHES SHALL BE ROCKER STYLE, SUCH AS LEVITON DECORA, OR APPROVED EQUAL, UNLESS OTHERWISE NOTED.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
- REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.13.
- REFER TO E4.1x SERIES SHEETS FOR TYPICAL UNIT POWER PLANS.

PRELIMINARY
NOT FOR
CONSTRUCTION

M
E
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INC. Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PH: (503) 234-0648
FAX: (503) 234-0877
CONTACT: DENISE TAYLOR

Project Owner:
NATIVE LAND DEVELOPMENT

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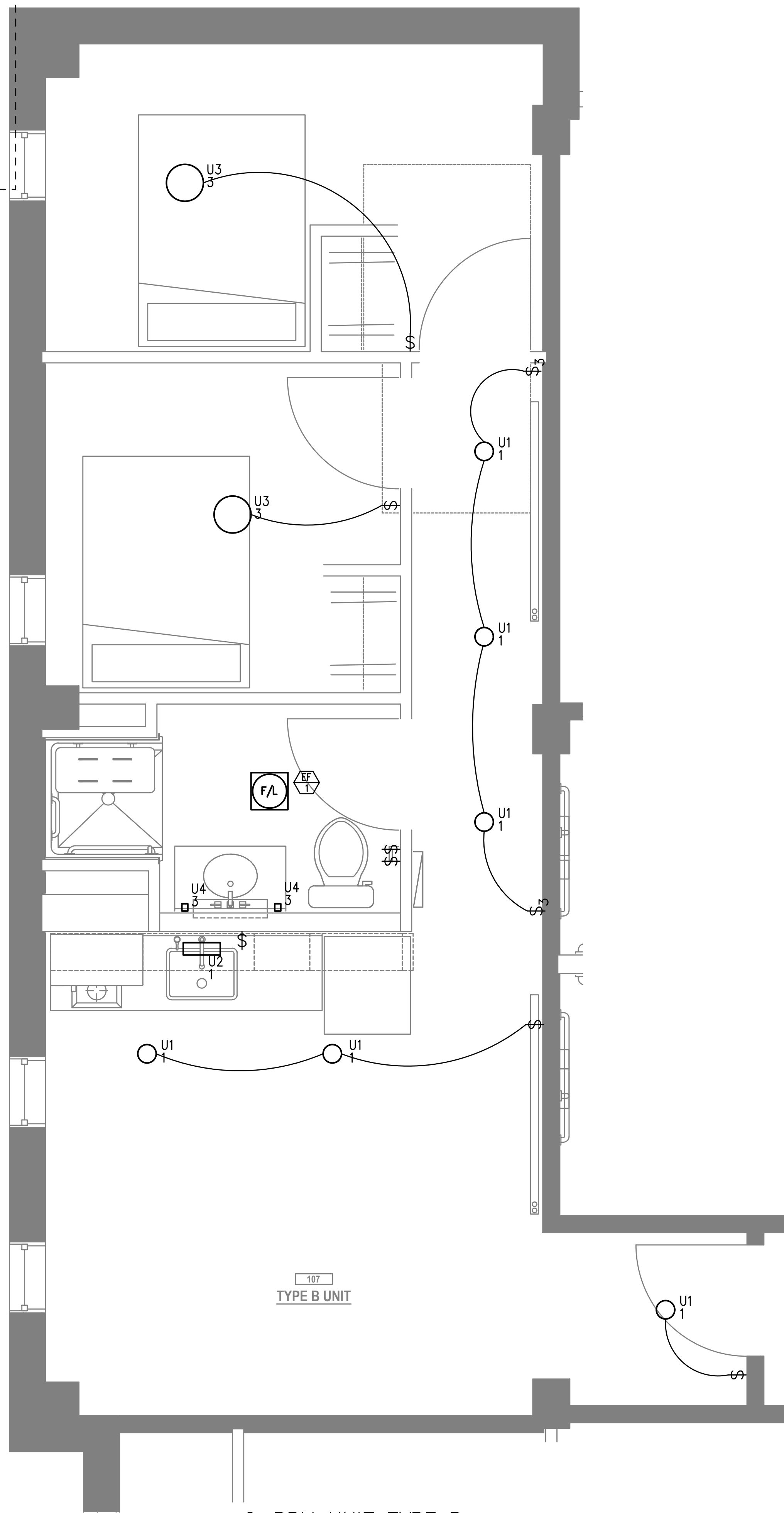
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TYPICAL UNIT
LIGHTING PLANS

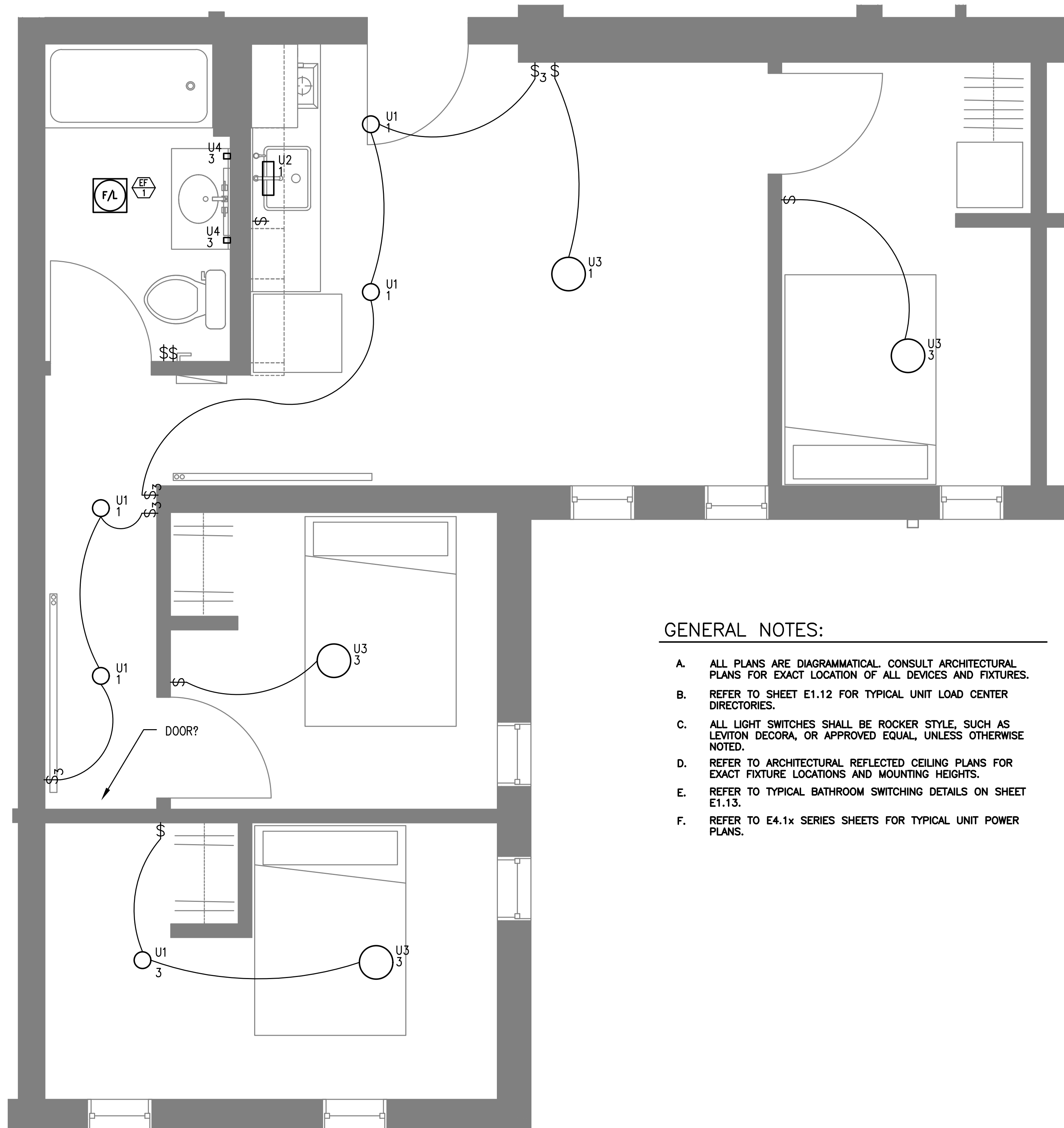
Drawing Number

E4.01



2-BRM UNIT TYPE B
LEVEL 1 - LIGHTING PLAN
SCALE: 1/2" = 1'-0"

1
E4.02

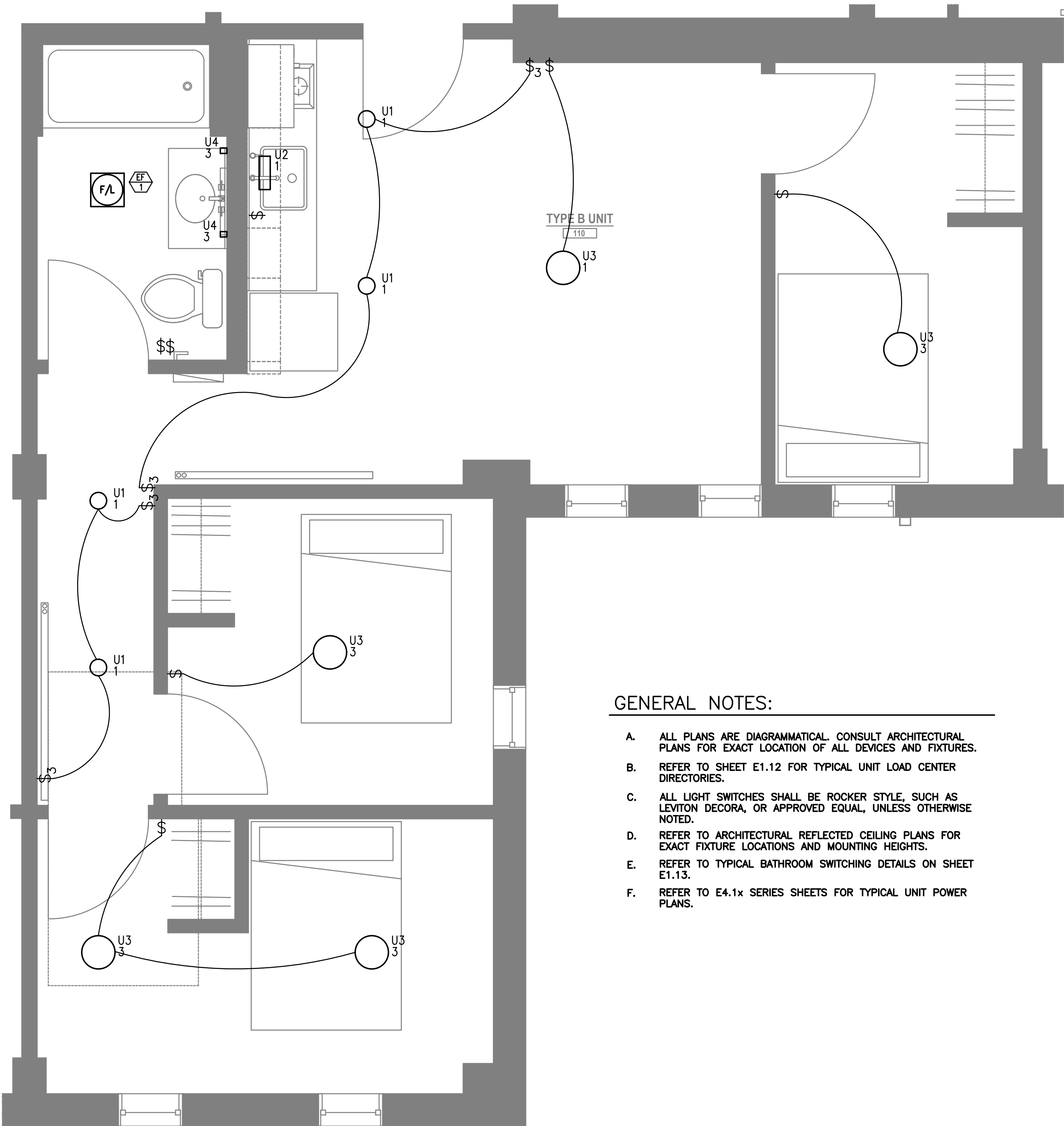
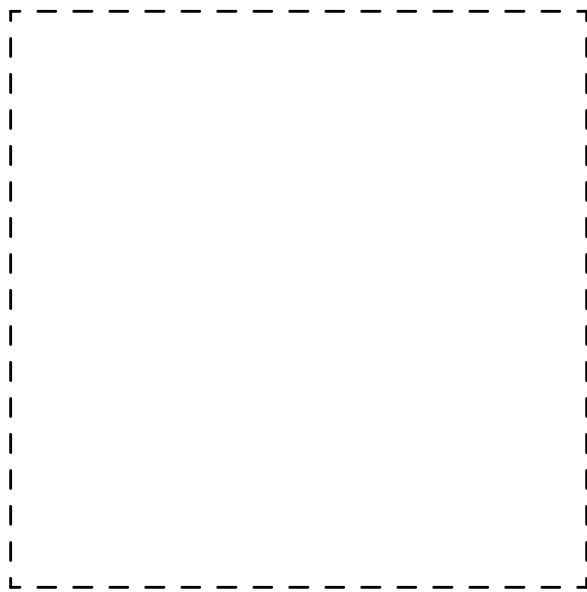


3-BRM UNIT TYPE B
TYPICAL - LIGHTING PLAN
SCALE: 1/2" = 1'-0"

2
E4.02

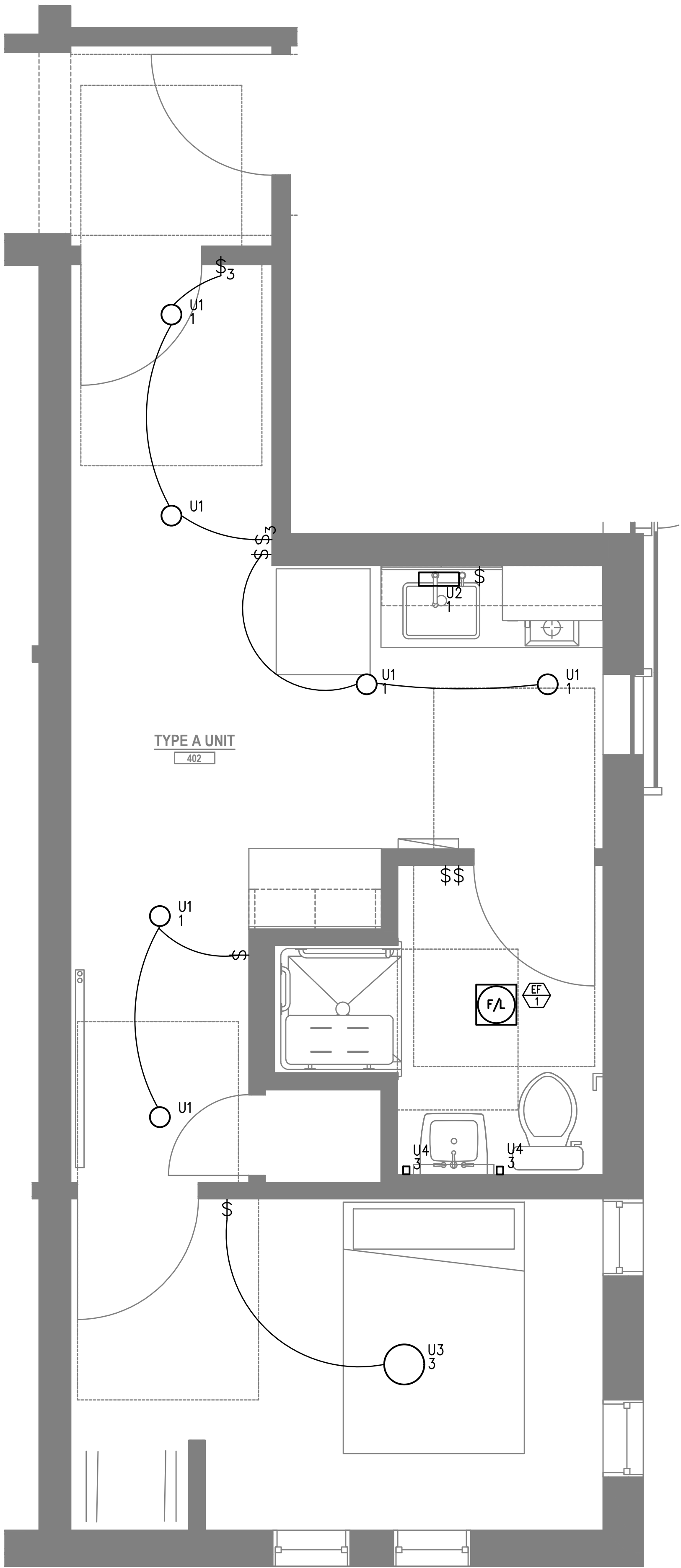
GENERAL NOTES:

- ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL DEVICES AND FIXTURES.
- REFER TO SHEET E1.12 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
- ALL LIGHT SWITCHES SHALL BE ROCKER STYLE, SUCH AS LEVITON DECORA, OR APPROVED EQUAL, UNLESS OTHERWISE NOTED.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
- REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.13.
- REFER TO E4.1x SERIES SHEETS FOR TYPICAL UNIT POWER PLANS.

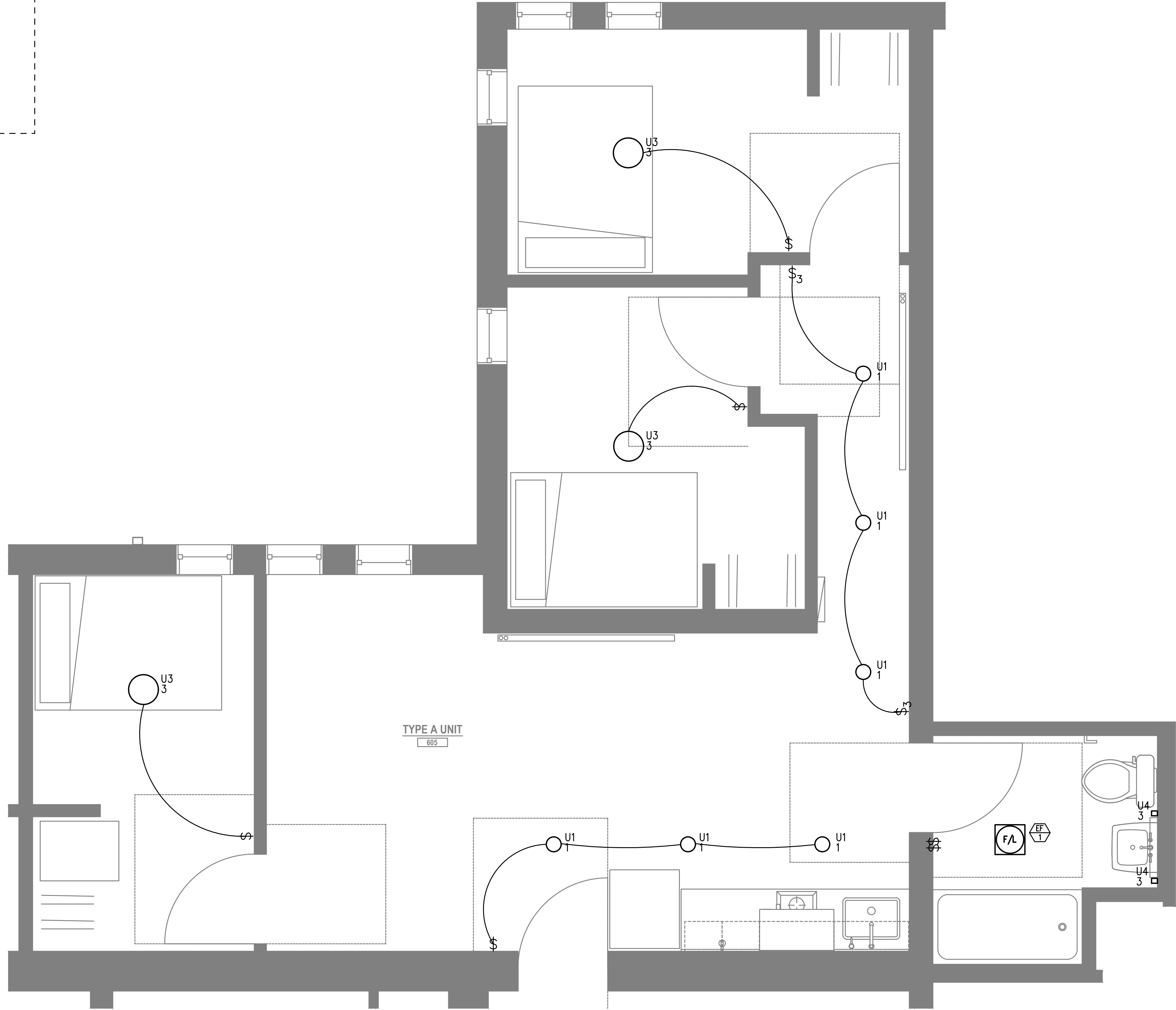
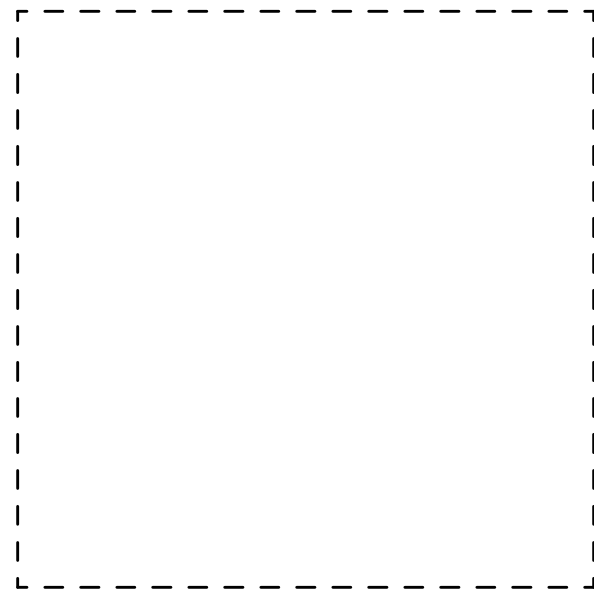


- GENERAL NOTES:
- A. ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL DEVICES AND FIXTURES.
 - B. REFER TO SHEET E1.12 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
 - C. ALL LIGHT SWITCHES SHALL BE ROCKER STYLE, SUCH AS LEVITON DECORA, OR APPROVED EQUAL, UNLESS OTHERWISE NOTED.
 - D. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
 - E. REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.13.
 - F. REFER TO E4.1x SERIES SHEETS FOR TYPICAL UNIT POWER PLANS.

3-BRM UNIT TYPE B
LEVEL 1 — LIGHTING PLAN
1
E4.03
SCALE: 1/2" = 1'-0"



1-BRM UNIT TYPE A
LEVEL 4 — LIGHTING PLAN
2
E4.03
SCALE: 1/2" = 1'-0"



GENERAL NOTES:

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- B. REFER TO SHEET E1.12 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
- C. ALL LIGHT SWITCHES SHALL BE ROCKER STYLE, SUCH AS LEVITON DECORA, OR APPROVED EQUAL, UNLESS OTHERWISE NOTED.
- D. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT FIXTURE LOCATIONS AND MOUNTING HEIGHTS.
- E. REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.13.
- F. REFER TO E4.1x SERIES SHEETS FOR TYPICAL UNIT POWER PLANS.

Project Name:

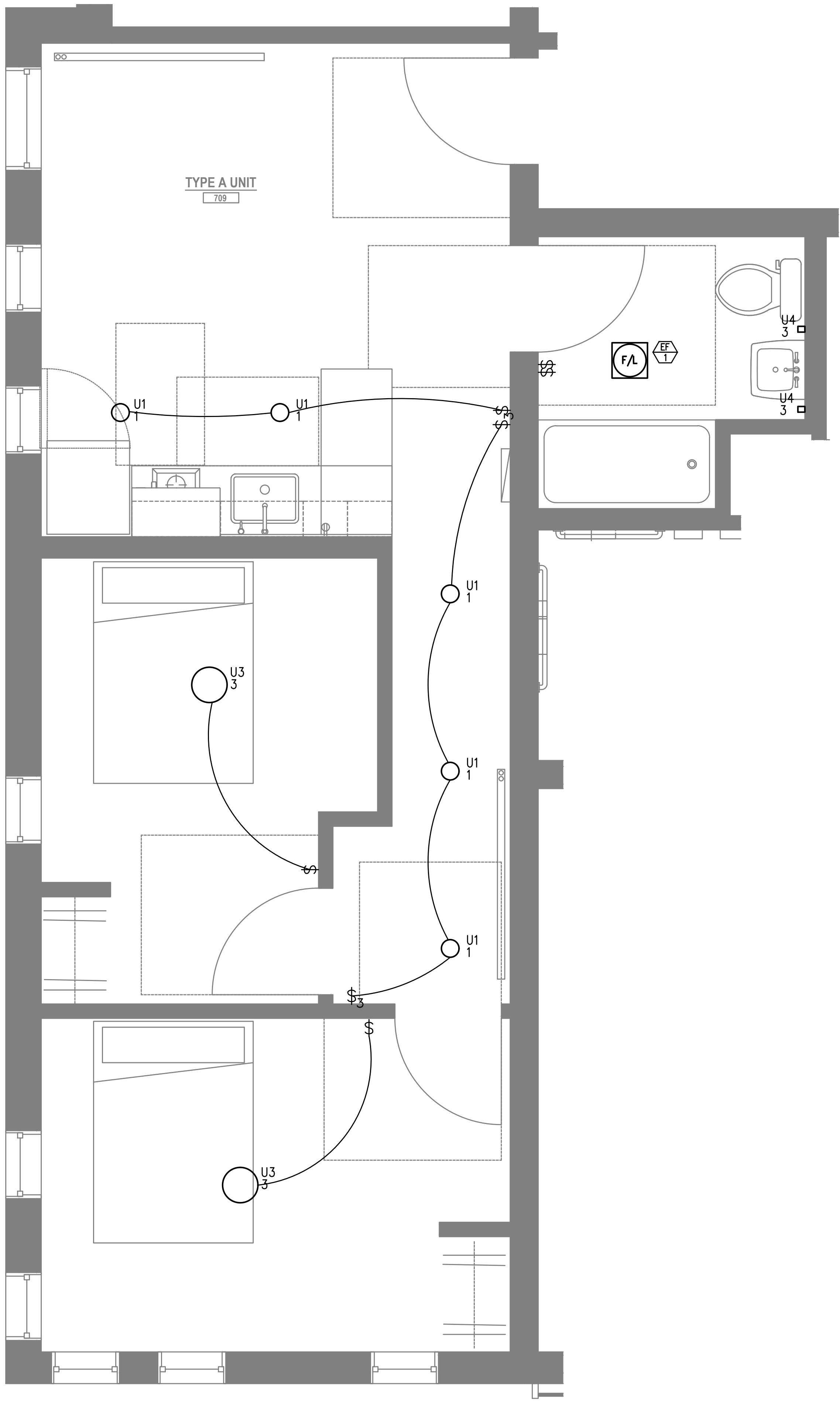
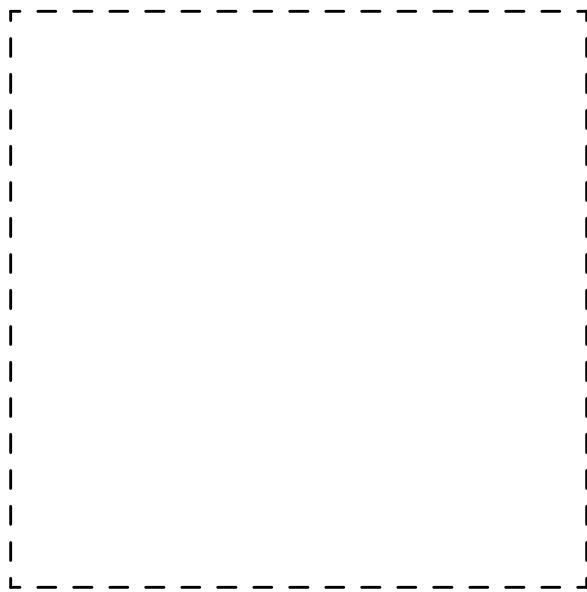
MINNESOTA
PLACES

1208 N. JESSUP &
5627 N. MINNESOTA
(R226159, R226160)

PERMIT
SET

Issued:	
PERMIT SET	7.29.2021
Job #:	2020
ORIGINAL SHEET SIZE: 24" x 36"	
HALF SIZE: 12" x 18"	

TYPICAL UNIT
LIGHTING PLANS



GENERAL NOTES:

- A. ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL DEVICES AND FIXTURES.
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- F. REFER TO E4.1x SERIES SHEETS FOR TYPICAL UNIT POWER PLANS.

PRELIMINARY
NOT FOR
CONSTRUCTION

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Project Name:
MINNESOTA
PLACES

1208 N. JESSUP &
5627 N. MINNESOTA
(R226159, R226160)

PERMIT
SET

Issued:	
PERMIT SET	7.29.2021
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HALF SIZE: 12" x 18"	

TYPICAL UNIT
LIGHTING PLANS

Drawing Number
E4.05

1
E4.05
2-BRM UNIT TYPE A
LEVEL 7 — LIGHTING PLAN
SCALE: 1/2" = 1'-0"