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, 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.
- $_2$ SWITCH, DPST +48" A.F.F.
- $_3$ SWITCH, 3–WAY +48" A.F.F.
- $_4$ SWITCH, 4–WAY +48" A.F.F.
- $_D$ SWITCH, DIMMER +48" A.F.F.
- $_P$ SWITCH, SPST, W/PILOT LIGHT +48" A.F.F.
- $_K$ SWITCH, KEY–OPERATED +48" A.F.F.
- $_T$ SWITCH, TIMED +48" A.F.F.
- PC PHOTOCELL CONTROL
- OS 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)

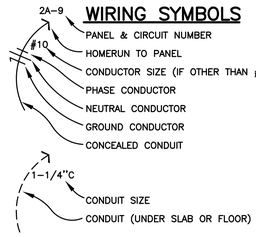
FIRE ALARM SYMBOLS

- 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.
- F OR 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
- SPECIAL OR SPECIAL RECEPTACLE, SPECIAL (COORDINATE WITH EQUIPMENT SERVED)
- R RELAY
- TC TIME CLOCK CONTROL
- PB PUSHBUTTON STATION
- J JUNCTION BOX
- T THERMOSTAT
- T TRANSFORMER
- DISCONNECT, NON–FUSED
- F 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

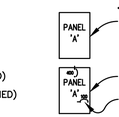


- PANEL & CIRCUIT NUMBER
- HOMERUN TO PANEL
- CONDUCTOR SIZE (IF OTHER THAN #12)
- PHASE CONDUCTOR
- NEUTRAL CONDUCTOR
- GROUND CONDUCTOR
- CONCEALED CONDUIT
- CONDUIT SIZE
- CONDUIT (UNDER SLAB OR FLOOR)
- FLEXIBLE CONNECTION
- CONDUIT, STUBBED & CAPPED

NOTATIONS

- (1) DRAWING NOTE
- (2 / E3) DETAIL REFERENCE: TOP=DETAIL NO., BOTTOM=SHEET NO.
- (E1 / 2) MECHANICAL EQUIPMENT MARK NO. (SEE EQUIPMENT SCHEDULE)
- (A) 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
- M UTILITY METER & METER BASE
- C.T. UTILITY METER CURRENT TRANSFORMER
- (1) 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.

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1208 N. JESSUP &
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(R226159, R226160)

PERMIT SUBMITTAL

Issued:

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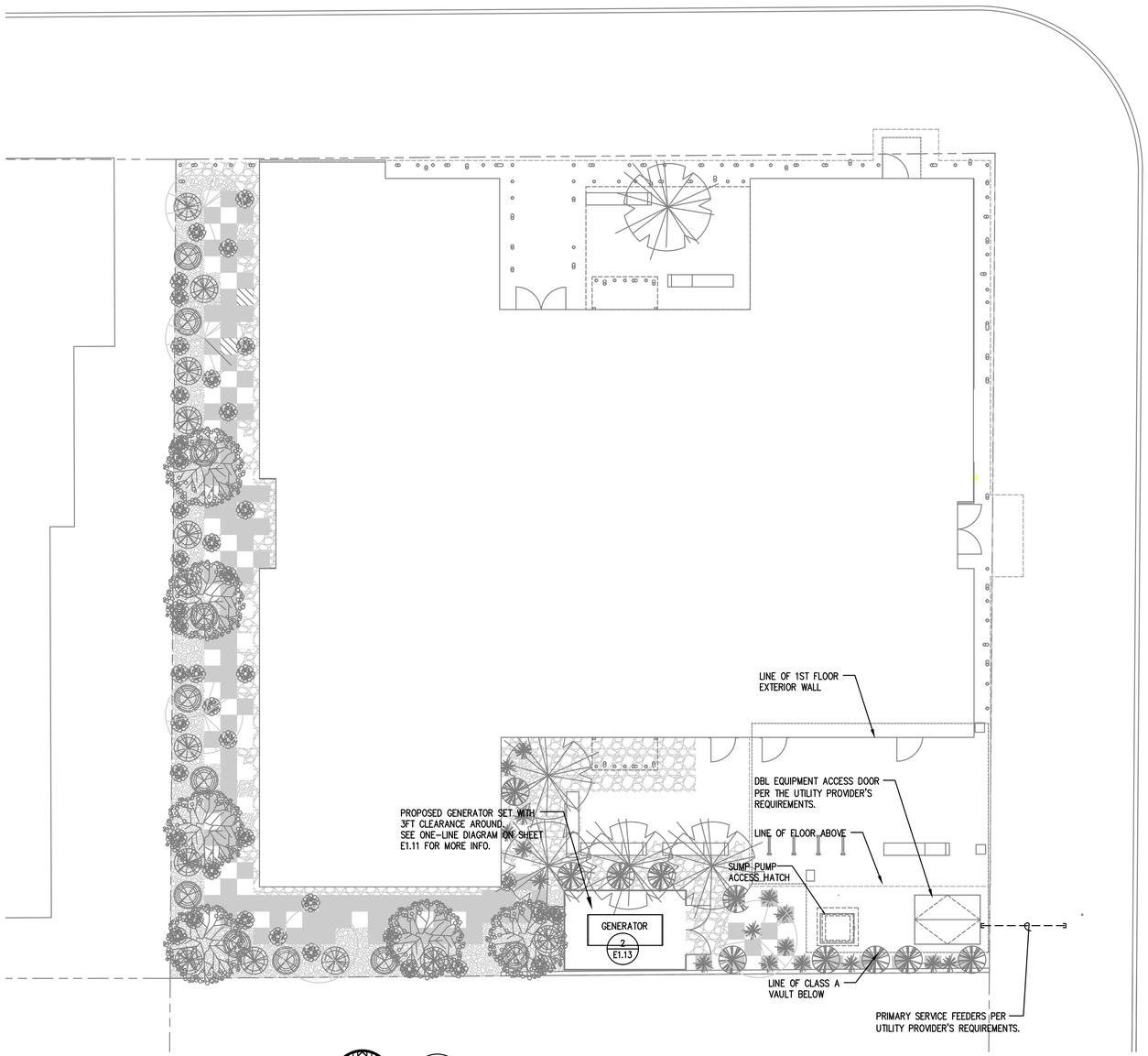
Job #: 2020

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

ELECTRICAL SYMBOL LIST

Drawing Number

E1.00



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

GENERAL POWER NOTES:

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

B. ELECTRICAL SERVICE ENTRANCE EQUIPMENT DESIGN IS BASED ON SIEMENS PRODUCTS. ACTUAL PRODUCTS USED MAY DIFFER IN SIZE AND CONFIGURATION AND SHALL BE NOTED IN FINAL PROJECT DOCUMENTS.

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

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

G. REFER TO SHEET E1.11 FOR THE ONE-LINE DIAGRAM AND TYPICAL FEEDER SCHEDULE.

H. LOCATION AND INSTALLATION OF THE PRIMARY AND SECONDARY CONDUITS, TRANSFORMER, ETC. SHALL BE PROVIDED PER PGE ELECTRICAL SERVICE REQUIREMENTS.

I. REFER TO SHEET E3.00 FOR MORE INFORMATION REGARDING THE CLASS A VAULT AND THE ELECTRICAL EQUIPMENT ROOM.

PGE 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 PGE CONDUCTORS TO BE INSTALLED IN GREY SCHEDULE 40, ELECTRICAL GRADE, PVC CONDUIT WITH NYLON PULL STRINGS (MIN 500 LBS. TEST). PGE 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 PGE REPRESENTATIVE 2 WEEKS BEFORE STARTING MAIN POWER TRENCHING FOR A PRECONSTRUCTION CONFERENCE. INCLUDED IN THIS CONFERENCE WILL BE EXCAVATOR, PGE, TELCO, CATV, AND GAS.

4. CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES BEFORE TRENCHING. COORDINATE WITH CIVIL.

5. STRUCTURAL ENGINEER SHALL CONSULT THE PGE REPRESENTATIVE REGARDING THE STRUCTURAL REQUIREMENTS FOR THE CLASS A VAULT. FINAL DESIGN MUST MEET PGE REQUIREMENTS AND BE APPROVED PRIOR TO THE START OF ANY CONSTRUCTION.

6. REFER TO E3 SERIES SHEETS FOR ADDITIONAL INFORMATION REGARDING THE CLASS A VAULT AND UTILITY TRANSFORMER INSTALLATION.

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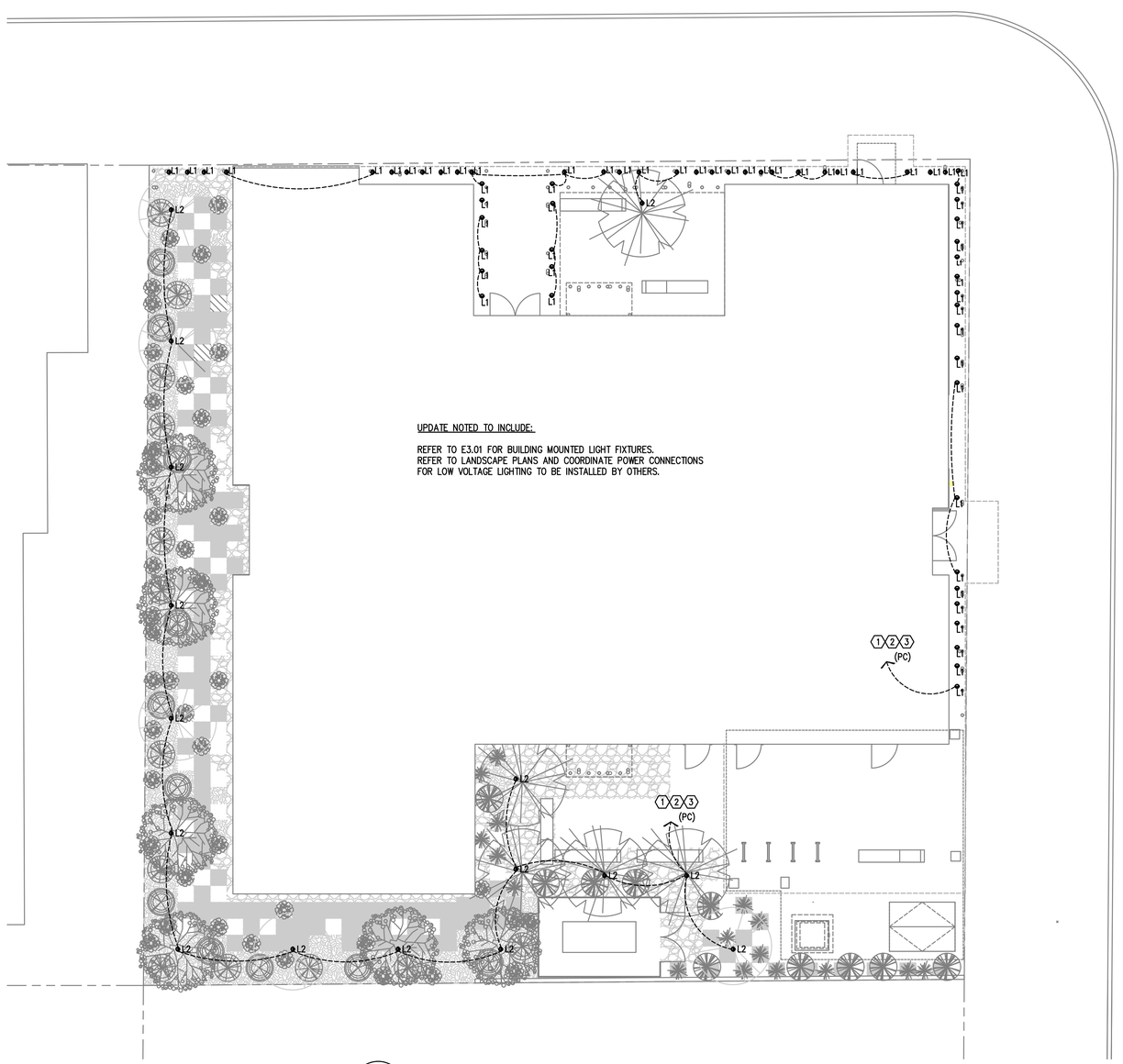
ELECTRICAL SITE PLAN

Drawing Number
E1.01



UPDATE NOTED TO INCLUDE:

REFER TO E3.01 FOR BUILDING MOUNTED LIGHT FIXTURES.
REFER TO LANDSCAPE PLANS AND COORDINATE POWER CONNECTIONS FOR LOW VOLTAGE LIGHTING TO BE INSTALLED BY OTHERS.

1 / E1.02 SITE LIGHTING PLAN
SCALE: 1/8" = 1'-0"

GENERAL SITE LIGHTING NOTES:

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

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

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

D. REFER TO E2 SERIES SHEETS FOR EXTERIOR BUILDING MOUNTED LIGHT LOCATIONS.

E. REFER TO SHEET E1.14 FOR LIGHT FIXTURE SCHEDULE.

G. SITE AND LANDSCAPE LIGHTING SHALL BE PROVIDED WITH DUSK-TIL-DAWN LIGHTING CONTROL AND AUTOMATIC CONTROLS TO REDUCE LIGHT LEVELS BY 30% DURING PERIODS OF LOW ACTIVITY.

⬡ KEYED LIGHTING NOTES:

1. EXTERIOR BUILDING LIGHTS TO BE CONTROLLED VIA TIME CLOCK OR LIGHTING CONTROL SYSTEM FOR DUSK-TILL-DAWN OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E1.13 FOR ADDITIONAL INFORMATION.

2. EXTERIOR LIGHT FIXTURES 'L1' & 'L4' ARE TO BE IN LINE, WITH ONE AT THE CANOPY AND ONE IN THE GROUND. SEE E3.01 FOR CANOPY MOUNTED FIXTURE LOCATIONS. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND COORDINATE WITH CIVIL FOR THE CONCRETE POUR PRIOR TO ROUGH IN.

3. ALL IN-GROUND AND LANDSCAPE LIGHTS TO BE FED FROM PANEL H1, CKT 3, VIA TIMECLOCK OR LIGHTING CONTROL SYSTEM FOR DUSK-TILL-DAWN OPERATION. CONDUCTORS SHALL BE INSTALLED IN PVC CONDUIT UNLESS OTHERWISE NOTED BY FIXTURE MANUFACTURER.

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5627 N. MINNESOTA
(R226159, R226160)

PERMIT SUBMITTAL

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ORIGINAL SHEET SIZE: 24" x 36"
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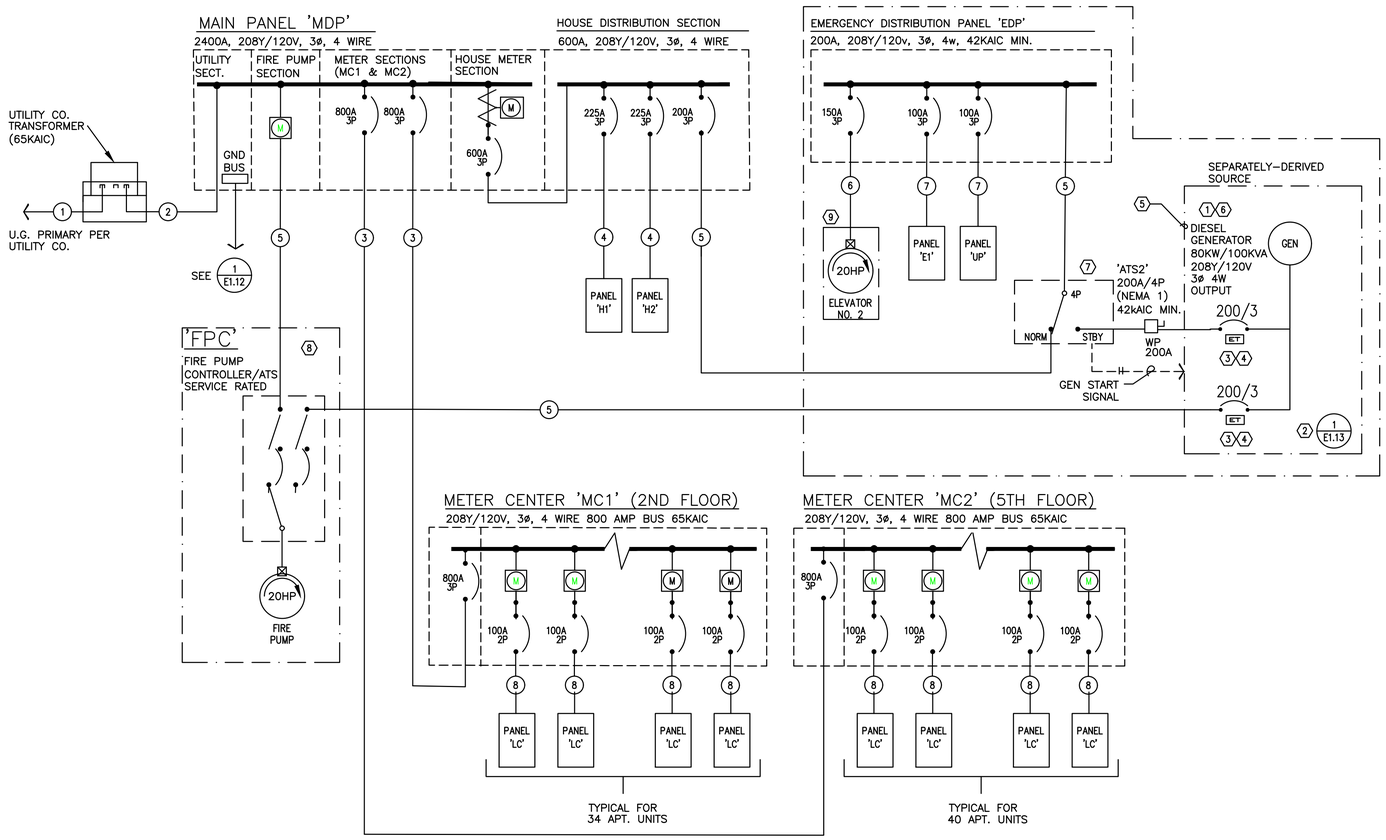
SITE LIGHTING PLAN

Drawing Number

E1.02



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

Minnesota Apartments
GENERATOR LOADS

LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
Panel E1	3,873	1,000			9,000	2,676	
Panel UP							
Elevator 1 (20hp)						22,356	
Fire Pump (20hp)						22,356	22,356
SUBTOTAL	3,873	1,000	0	0	9,000	47,388	22,356
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	4,841	1,000	0	0	9,000	47,388	5,589

CONN LOAD:	84	KVA

VOLTS:	208	3ph
TOTAL CALC:	68	KVA
CALC AMPS:	188	AMPS

Minnesota Apartments
GENERATOR LOADS

LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
Panel E1	3,873	1,000			9,000	2,676	
Panel UP							
Elevator 1 (20hp)						22,356	
Fire Pump (20hp)						22,356	22,356
SUBTOTAL	3,873	1,000	0	0	9,000	47,388	22,356
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	4,841	1,000	0	0	9,000	47,388	5,589

CONN LOAD:	84	KVA

VOLTS:	208	3ph
TOTAL CALC:	68	KVA
CALC AMPS:	188	AMPS

ONE-LINE GENERAL NOTES:

A. 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.

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.

⬡ 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. 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.

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. CONSULT ELEVATOR PROVIDER FOR INSTALLATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.

FEEDER SCHEDULE (COPPER)

NO.	AMPS	CONDUIT	CONDUCTOR		
1	2400A	*(5) 4"	BY UTILITY CO.	& (1)	GND
2	2400A	*(5) 4"	ea w/ (4) #600Kcmil	& (1)	#350KGND
3	800A	*(2) 4"	ea w/ (4) #600Kcmil	& (1)	#1/0 GND
4	225A	2 1/2"	(4) #4/0	& (1)	#4 GND
5	200A	2"	(4) #3/0	& (1)	#6 GND
6	150A	2"	(4) #1/0	& (1)	#6 GND
7	100A	1-1/2"	(4) #1	& (1)	#8 GND
8	100A	1 1/2"	(3) #1	& (1)	#8 GND

* PARALLEL FEEDER

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Job #: 2020
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HALF SIZE: 12" x 18"

ELECTRICAL ONE-LINE DIAGRAM

Drawing Number
E1.11

MFIA PANEL SCHEDULE													
panel: E1		mounting: SURFACE			location: Bsmnt Elect Rm				connected load amps: 46				
voltage: 120/208V (SCCR: 42KAIC)		phase: 3			bus & main: 100A MLO				calculated load amps: 49				
C	service	va	a/p	no.	a b c	no.	a/p	va	service	C			
1	LIGHTS - EXTERIOR	105	20/1	1	*	2	20/1	500	RECEPT PIT LTS & RECEPT	2			
1	LIGHTS - STAIR #1	992	20/1	3	*	4	20/1	1176	SP-1 (ELEVATOR PIT)	6			
1	LIGHTS - STAIR #2	1085	20/1	5	*	6	20/1	500	ELEVATOR CONTROLS	5			
1	LIGHTS - EGRESS FLR B,1	554	20/1	7	*	8	20/1	500	ELEVATOR CAB LIGHTS	5			
1	LIGHTS - EGRESS FLR 2,3,4	487	20/1	9	*	10	20/1	1500	ELEVATOR RELEIF VENT (OPT)	6			
1	LIGHTS - EGRESS FLR 5,6,7,8	650	20/1	11	*	12	20/1	500	ELEVATOR SHAFT LTS & RECEPT	2			
	SPARE	0	20/1	13	*	14	20/1	0	SPARE				
5	SMOKE DAMPERS	1500	20/1	15	*	16	20/1	500	FACP	5			
5	SMOKE DAMPERS	1500	20/1	17	*	18	20/1	500	GENERATOR REMOTE ANNUNC	5			
5	SMOKE DAMPERS	1500	20/1	19	*	20	20/1	500	GENERATOR BLOCK HEATER	5			
5	SMOKE DAMPERS	1500	20/1	21	*	22	20/1	500	GENERATOR BATTERY CHARGER	5			
	SPARE	0	20/1	23	*	24	20/1	0	SPARE				
	BLANK			25	*	26							
	BLANK			27	*	28							
	BLANK			29	*	30							
	BLANK			31	*	32							
	BLANK			33	*	34							
	BLANK			35	*	36							
	BLANK			37	*	38							
	BLANK			39	*	40							
	BLANK			41	*	42							
	Phase A	3659 VA		NOTES:					line-line voltage				
	Phase B	8155 VA							208				
	Phase C	4735 VA							largest motor (va)				
	Total Connected	16549 VA							0				
	load code:	ph. A	ph. B		ph. C			total	factor	calculated load (va)			
	1. LIGHTS=	659	1479		1735	VA		3873	1.25	4841			
	2. RECEPT.=	500	0		500	VA		1000	1 + 0.5	1000			
	3. HEATING=	0	0		0	VA		0	1.00	0			
	4. KITCHEN=	0	0		0	VA		0	1.00	0			
	5. EQUIP.=	2500	4000		2500	VA		9000	1.00	9000			
	6. MOTORS=	0	2676		0	VA		2676	*	2676			
	7. MISC=	0	0		0	VA		0	1.00	0			
	(* 125% of the largest motor + 100% of the balance)								TOTAL =	17517			

MFIA PANEL SCHEDULE													
panel: Panel H1		mounting: SURFACE			location: Bsmt Elect Rm				connected load amps: 169				
voltage: 120/208V (SCCR: 42KAIC)		phase: 3			bus & main: 225A MLO				calculated load amps: 161				
C	service	va	a/p	no.	a b c	no.	a/p	va	service	C			
1	LIGHTS - BLDG EXTERIOR	1140	20/1	1	*	2	20/1	1260	RECEPT - BASEMENT	2			
1	LIGHTS - LANDSCAPE	874	20/1	3	*	4	20/1	1260	RECEPT - BASEMENT/EF-4	2			
	SPARE	0	20/1	5	*	6	20/1	500	WH-1,2,3 (GAS WATER HEATERS)	3			
1	LIGHTS - FLR B,1	1024	20/1	7	*	8	20/1	1176	RP-1	6			
1	LIGHTS - FLR B,1/EF-2	1497	20/1	9	*	10	20/2	1248	IAC/OAC-1	3			
6	TRASH COMPACTOR	2100	30/3	11	*	12	*	1248	*	3			
6	*	2100	*	13	*	14	50/3	3960	BP-1 (3X 5HP)	6			
9	*	2100	*	15	*	16	*	3960	*	6			
6	OH DOOR @ TRASH RM	1500	20/1	17	*	18	*	3960	*	6			
	SPARE	0	20/1	19	*	20	20/1	900	B-1,2,3,4 (GAS BOILERS)	3			
5	COMMUNICATIONS BOARD	500	20/1	21	*	22	20/1	1500	EH-1 RM 006	3			
5	TECH SERVICES BOARD	500	20/1	23	*	24	20/1	1500	EH-1 RM 006	3			
5	SECURITY BOARD	500	20/1	25	*	26	20/1	1000	EH-2 RMS 004,016	3			
3	EH-2 (STAIR 2)	500	20/1	27	*	28	20/1	1260	RECEPT - RM 100,114	2			
2	RECEPT - MAIL SYSTEM	1500	20/1	29	*	30	20/1	900	RECEPT - RM 106/ (2X) EF-2	2			
2	RECEPT - RM 102	1080	20/1	31	*	32	20/1	1500	RECEPT - RM 106	2			
2	RECEPT-RM 100,103,111,116/EF-3	1080	20/1	33	*	34	50/3	3036	P-1 (7.5HP)	6			
2	RECEPT - RM 104	1260	20/1	35	*	36	*	3036	*	6			
2	RECEPT - RM 105	900	20/1	37	*	38	*	3036	*	6			
2	RECEPT - RM 105	1500	20/1	39	*	40	30/1	2870	SP-2 RM 004	6			
	SPARE	0	20/1	41	*	42	20/1		SPARE				
	Phase A	19576 VA		NOTES:					line-line voltage				
	Phase B	23185 VA							208				
	Phase C	18004 VA							largest motor (va)				
	Total Connected	60765 VA							0				
	load code:	ph. A	ph. B		ph. C			total	factor	calculated load (va)			
	1. LIGHTS=	2164	2371		0	VA		4535	1.25	5669			
	2. RECEPT.=	4740	5100		3660	VA		13500	1 + 0.5	11750			
	3. HEATING=	1900	3248		3248	VA		8396	1.00	8396			
	4. KITCHEN=	0	0		0	VA		0	1.00	0			
	5. EQUIP.=	500	500		500	VA		1500	1.00	1500			
	6. MOTORS=	10272	9866		10596	VA		30734	*	30734			
	7. MISC=	0	0		0	VA		0	1.00	0			
	(* 125% of the largest motor + 100% of the balance)								TOTAL =	58049			

MFIA PANEL SCHEDULE													
panel: Panel UP		mounting: SURFACE			location: Transf. Vault Rm				connected load amps: 16				
voltage: 120/208V (SCCR: 42KAIC)		phase: 3			bus & main: 100A MLO				calculated load amps: 16				
C	service	va	a/p	no.	a b c	no.	a/p	va	service	C			
1	LIGHTS		20/1	1	*	2	20/1	540	RECEPTACLES	2			
1	LIGHTS - EGRESS		20/1	3	*	4	20/1	540	RECEPTACLES	2			
3	MINI SPLIT SYSTEM		20/2	5	*	6	20/1	1176	SP-3	6			
3	*		*	7	*	8	20/2	1800	EF-6	6			
5	DAMPERS		20/1	9	*	10	*	1800	*	6			
5	DAMPERS		20/1	11	*	12	20/1	0	SPARE				
	SPARE	0	20/1	13	*	14	20/1	0	SPARE				
	SPARE	0	20/1	15	*	16	20/1	0	SPARE				
	SPARE	0	20/1	17	*	18	20/1	0	SPARE				
	SPARE	0	20/1	19	*	20	20/1	0	SPARE				
	SPARE	0	20/1	21	*	22	20/1	0	SPARE				
	SPARE	0	20/1	23	*	24	20/1	0	SPARE				
	BLANK			25	*	26			BLANK				
	BLANK			27	*	28			BLANK				
	BLANK			29	*	30			BLANK				
	BLANK			31	*	32			BLANK				
	BLANK			33	*	34			BLANK				
	BLANK			35	*	36			BLANK				
	BLANK			37	*	38			BLANK				
	BLANK			39	*	40			BLANK				
	BLANK			41	*	42			BLANK				
	Phase A	2340 VA		NOTES:					line-line voltage				
	Phase B	2340 VA							208				
	Phase C	1176 VA							largest motor (va)				
	Total Connected	5856 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.=	540	540		0	VA		1080	1 + 0.5	1080			
	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=	1800	1800		1176	VA		4776	*	4776			
	7. MISC=	0	0		0	VA		0	1.00	0			
	(* 125% of the largest motor + 100% of the balance)								TOTAL =	5856			

MFIA PANEL SCHEDULE													
panel: Panel H2		mounting: SURFACE			location: 5TH FLR ELECT RM				connected load amps: 149				
voltage: 120/208V (SCCR: 42KAIC)		phase: 3			bus & main: 225A MLO				calculated load amps: 134				
C	service	va	a/p	no.	a b c	no.	a/p	va	service	C			
2	RECEPT - FLR 2,3	1440	20/1	1	*	2	20/1	1440	RECEPT - FLR 6,7	2			
2	RECEPT - 3RD FLR LAUNDRY	1500	20/1	3	*	4	20/1	1500	RECEPT - 6TH FLR LAUNDRY	2			
2	RECEPT - LAUNDRY ATM	1500	20/1	5	*	6	20/1	1500	RECEPT - LAUNDRY ATM	2			
5	DRYER - 3RD FLR LAUNDRY	3000	30/2	7	*	8	30/2	3000	DRYER - 6TH FLR LAUNDRY	5			
5	*	3000	*	9	*	10	*	3000	*	5			
2	RECEPT - FLR 4,5	1440	20/1	11	*	12	20/1	1260	RECEP -6TH FLR COMMUNITY RM	2			
2	RECEPT - 4TH FLR LAUNDRY	1500	20/1	13	*	14	20/1	0	SPARE				
2	RECEPT - LAUNDRY ATM	1500	20/1	15	*	16	20/1	0	SPARE				
5	DRYER - 4TH FLR LAUNDRY	3000	30/2	17	*	18	20/1	0	SPARE				
5	*	3000	*	19	*	20	20/1	0	SPARE				
2	RECEPT - 8TH FLR LAUNDRY	1500	20/1	21	*	22	20/1	1500	RECEPT - 7TH FLR LAUNDRY	2			
2	RECEPT - LAUNDRY ATM	1500	20/1	23	*	24	20/1	1500	RECEPT - LAUNDRY ATM	2			
5	DRYER - 8TH FLR LAUNDRY	3000	30/2	25	*	26	30/2	3000	DRYER - 7TH FLR LAUNDRY	5			
5	*	3000	*	27	*	28	*	3000	*	5			
2	RECEPT - 8TH FLR, ROOF GFI	900	20/1	29	*	30	20/1	325	LIGHTS - FLR 2,3,4	1			
6	SF-1 (ROOF)	700	20/1	31	*	32	20/1	156	LIGHTS - FLR 2-8	1			
	SPARE	0	20/1	33	*	34	20/1	812	LIGHTS - FLR 5,6,7,8	1			
	SPARE	0	20/1	35	*	36	20/1	232	LIGHTS - FLR 6 COMMUNITY RM	1			
	SPARE	0	20/1	37	*	38	20/1	0	SPARE				
	SPARE	0	20/1	39	*	40	20/1	0	SPARE				
	SPARE	0	20/1	41	*	42	20/1	0	SPARE				
	Phase A	20236 VA		NOTES:					line-line voltage				
	Phase B	20312 VA							208				
	Phase C	13157 VA							largest motor (va)				
	Total Connected	53705 VA							0				
	load code:	ph. A	ph. B		ph. C			total	factor	calculated load (va)			
	1. LIGHTS=	156	812		557	VA		1525	1.25	1906			
	2. RECEPT.=	4380	7500		9600	VA		21480	1 + 0.5	15740			
	3. HEATING=	0	0		0	VA		0	1.00	0			
	4. KITCHEN=	0	0		0	VA		0	1.00	0			
	5. EQUIP.=	15000	12000		3000	VA		30000	1.00	30000			
	6. MOTORS=	700	0		0	VA		700	*	700			
	7. MISC=	0	0		0	VA		0	1.00	0			
	(* 125% of the largest motor + 100% of the balance)								TOTAL =	48346			

MECHANICAL EQUIPMENT SCHEDULE

NO.	EQUIPMENT NAME	HP/KW	VOLTS	PH	AMPS	CONDUIT	WIRE	GND	CIRCUIT
EF-1	EXHAUST FAN NO.1	11.7W	120	1		1/2"	#12	#12	SEE TYP. UNIT PLANS
EF-2	EXHAUST FAN NO.2	11.7W	120	1		1/2"	#12	#12	SEE SHEET E3.01
EF-3	EXHAUST FAN NO.3	11.7W	120	1		1/2"	#12	#12	SEE SHEET E3.01
EF-4	EXHAUST FAN NO.4	11.7W	120	1		1/2"	#12	#12	SEE SHEET E3.01
EF-5	EXHAUST FAN NO.5	1/4HP	120	1		1/2"	#12	#12	H1-33 (PC)
EF-6	EXHAUST FAN NO.6	1.0HP	208	1		1/2"	#12	#12	UP-8,10
EH-1	WALL HEATER NO.1	1.5KW	120	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	4.0KW	208	1		1/2"	#12	#12	
B-1	BOILER NO.1 (GAS)		120	1		1/2"	#12	#12	H1-6 (PC)
B-2	BOILER NO.2 (GAS)		120	1		1/2"	#12	#12	H1-6 (PC)
B-3	BOILER NO.3 (GAS)		120	1		1/2"	#12	#12	H1-6 (PC)
B-4	BOILER NO.4 (GAS)		120	1		1/2"	#12	#12	H1-6 (PC)
BP-1	BOOSTER PUMP NO.1		208	3		3/4"	#6	#10	H1-14,16,18
IAC-1	SPLIT SYST NO.1 (INDOOR)								INTERCONNECT W/ OAC-1
OAC-1	SPLIT SYST NO.1 (OUTDOOR)		208	1	12.0 MCA	1/2"	#12	#12	H1-10,12
P-1	PUMP NO. 1	7.5HP	208	3		1/2"	#10	#1	H1-34,36,38
RP-1	RECIRC PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	H1-8
SF-1	SUPPLY FAN NO.1	1/4HP	120	1		1/2"	#12	#12	H2-31
SP-1	SUMP PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	E1-4
SP-2	SUMP PUMP NO.2	3/4HP	120	1		1/2"	#10	#10	H1-40
SP-3	SUMP PUMP NO.3	1/2HP	120	1		1/2"	#12	#12	UP-6
WH-1	WATER HEATER NO.1 (GAS)		120	1		1/2"	#12	#12	H1-6 (PC)
WH-2	WATER HEATER NO.2 (GAS)		120	1		1/2"	#12	#12	H1-6 (PC)
WH-3	WATER HEATER NO.3 (GAS)		120	1		1/2"	#12	#12	H1-6 (PC)
WH-4	WATER HEATER NO.4 (GAS)		120	1		1/2"	#12	#12	H1-6 (PC)

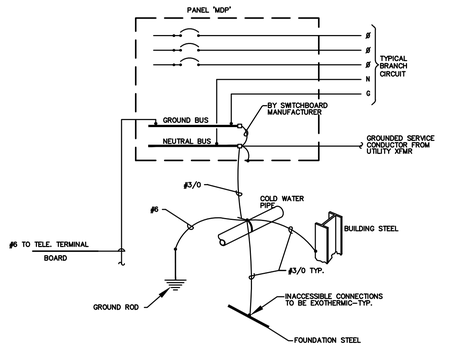
GENERAL EQUIPMENT NOTES:

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.

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 / E1.12 GROUNDING/BONDING DIAGRAM

208Y/120V, 3Ø, 4 WIRE

wright architecture

www.wright-architecture.com

2222 NE Oregon Street, Suite 213
Portland, Oregon 97232

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503.206.8380

REGISTERED PROFESSIONAL ENGINEER 16,597 OREGON JULY 20, 1993 ROBERT L. CONNELL

EXPIRES 12-31-2021

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Project Owner:

SMART PDX PROPERTIES, LLC

Project Name:

MINNESOTA PLACES

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

PERMIT SUBMITTAL

Issued:

PERMIT SUBMITTAL	8.16.2021

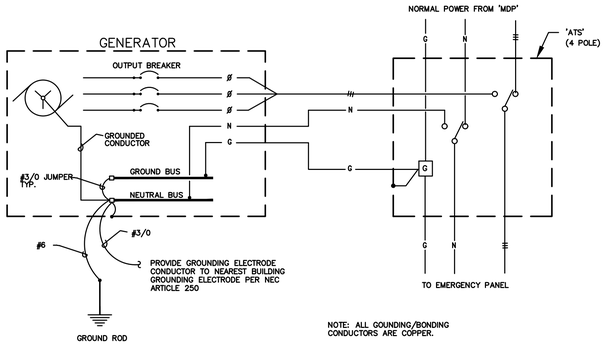
Job #: 2020

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

PANEL SCHEDULES

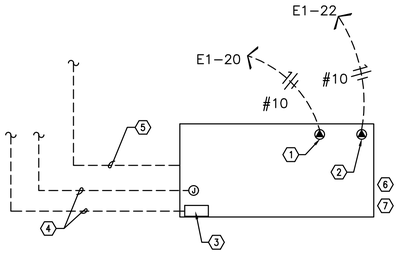
Drawing Number

E1.12



1 / E1.13 GENERATOR – ELECTRICAL GROUNDING/BONDING DETAIL

NO SCALE



2 / E1.13 GENERATOR CIRCUITING DETAIL

NO SCALE

NOTES:

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

MINNESOTA 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 (CONNECTED)	MICROWAVE (CONNECTED)	DISHWASHER (CONNECTED)	ELECT DRYER (CONNECTED)	WATER HEATER (CONNECTED)	DISPOSAL (CONNECTED)	MOTORS (CONNECTED)	LARGEST OF: AC/HEATING (CONNECTED)
	Lvl 1	Lvl 2	Lvl 3	Lvl 4	Lvl 5	Lvl 6	Lvl 7	Lvl 8													
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 X 2)	LAUNDRY (1500VA)	COOKING (CONNECTED)	MICROWAVE (CONNECTED)	DISHWASHER (CONNECTED)	ELECT DRYER (CONNECTED)	WATER HEATER (CONNECTED)	DISPOSAL (CONNECTED)	MOTORS (CONNECTED)	LARGEST OF: AC/HEATING (CONNECTED)
	Lvl 1	Lvl 2	Lvl 3	Lvl 4	Lvl 5	Lvl 6	Lvl 7	Lvl 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 = 39-42 (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 ckts 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"	14,500	VA
First 10 kVA of "general loads" at 100%	10,000	VA
Remainder of "general loads" at 40%	1,800	VA
Net "general load"	11,800	VA
Largest of: 3,500 VA of electric space heating (less than 4) at 65%	2,275	VA
-or- VA of electric space heating (4 or more) at 40%	0	VA
-or- VA of air conditioning/cooling/heat pumps at 100%	0	VA
TOTAL LOAD	14,075	VA
For 120/208-volt, 3-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
Unit Type 2Bedroom
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 ckts 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%	3,250	VA
-or- VA of electric space heating (4 or more) at 40%	0	VA
-or- VA of air conditioning/cooling/heat pumps at 100%	0	VA
TOTAL LOAD	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 ckts 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%	0	VA
-or- 6,500 VA of electric space heating (4 or more) at 40%	2,600	VA
-or- VA of air conditioning/cooling/heat pumps at 100%	0	VA
TOTAL LOAD	17,640	VA
For 120/208-volt, 4-wire, single-phase service or feeder, 17,640 VA / 208 volts =	85	Amps

Therefore, this dwelling unit shall be permitted to be served by a 100 amp service.

MFIA CIRCUIT DIRECTORY 13-Aug-21

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

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

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

MFIA CIRCUIT DIRECTORY 13-Aug-21

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

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

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

MFIA CIRCUIT DIRECTORY 13-Aug-21

Loadcenter Name: LC-3BR (TYPICAL) | mounting: RECESSED | location:
voltage: 208/120 | phase: 1 | bus & main: 100A MLO (SCCR: 22K)

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

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

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Project Name:

MINNESOTA PLACES

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

PERMIT SUBMITTAL

Issued:
PERMIT SUBMITTAL 8.16.2021

Job #: 2020

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

ELECTRICAL SCHEDULES

Drawing Number
E1.13

LIGHTING FIXTURE LIST

TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
A1 A1E	LED 4000K 4000LM 28W	LITHONIA LIGHTING (OR APROVED OTHER)	CLXL48 SERIES	TYPE :4FT GENERAL PURPOSE STRIP MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	A1E SHALL HAVE EMERGENCY BATTERY BACKUP STORAGE & EQUIP ROOMS
A2E	LED 4000K 4000LM 24W	LITHONIA (OR APROVED OTHER)	FEML48LPPCL SERIES	TYPE :4FT ENCLOSED STRIP MOUNTING :SURFACE HOUSING :POLYCARBONATE LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	PROVIDE WITH EMERGENCY BATTERY BACKUP. FIXTURES IN TRANSFORMER ROOM TO BE WALL MOUNTED AT 8FT AFF. ELEVATOR PIT, TRANSFORMER RM
B1	LED 4000K 3000LM 35W	LITHONIA (OR APROVED OTHER)	ZL1FL48 SERIES	TYPE :4FT LINEAR LIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :MVOLT (0-10 DIMMING) BALLAST :LED DRIVER	FINISH PER ARCHITECT BIKE ROOM
B2	LED 3000K 600LM/FT 5.8W/FT	MARK LIGHTING (OR APROVED OTHER)	SLOT 1 S1LIDP SERIES	TYPE :LINEAR DIRECT/INDIRECT PENDANT MOUNTING :SUSPENDED HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :MVOLT (0-10 DIMMING) BALLAST :LED DRIVER	FINISH PER ARCHITECT CONNECTABLE FIXTURE/SEAMLESS WHERE POSIBLE 400LM UP/200LM DWN VERIFY MOUNTING HEIGHT LOBBY, CORRIDORS
B3	LED 3000K 600LM/FT 5.8W/FT	MARK LIGHTING (OR APROVED OTHER)	SLOT 1 S1LWID SERIES	TYPE :LINEAR DIRECT/INDIRECT MOUNTING :WALL MOUNT (+8'-0" AFF) HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :MVOLT (0-10 DIMMING) BALLAST :LED DRIVER	FINISH PER ARCHITECT CONNECTABLE FIXTURE/SEAMLESS WHERE POSIBLE 400LM UP/200LM DWN VERIFY MOUNTING HEIGHT LOBBY, CORRIDORS
B4	LED 3000K 200LM/FT 5.8W/FT	MARK LIGHTING (OR APROVED OTHER)	SLOT 1 S1LWD SERIES	TYPE :LINEAR DIRECT MOUNTING :WALL MOUNT (+8'-0" AFF) HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :MVOLT (0-10 DIMMING) BALLAST :LED DRIVER	FINISH PER ARCHITECT CONNECTABLE FIXTURE/SEAMLESS WHERE POSIBLE VERIFY MOUNTING HEIGHT STAIRWELLS
C1	LED 3000K 650LM 15W	LIGHTOLIER (OR APROVED OTHER)	S5R SERIES	TYPE :5" DIA CEILING LIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	 RESTROOMS
L1	LED 3000K 515LM 11.5W	WAC LIGHTING (OR APROVED OTHER)	5032 SERIES	TYPE :3" DIA. IN-GROUND MOUNTING :RECESSED (ADJUSTABLE) HOUSING :DIE-CAST BRASS LENS/REFL :CLEAR LENS VOLTAGE :120V BALLAST :LED DRIVER	COORDINATE INSTALL W/ CONCRETE CONTRACTOR PRIOR TO INSTALL. CONSULT ARCHITECT AND FIELD AIM WET LOCATION LISTED BUILDING EXTERIOR
L2	LED 3000K 515LM 11.5W	WAC LIGHTING (OR APROVED OTHER)	5032 SERIES	TYPE :3" DIA. IN-GROUND MOUNTING :RECESSED (ADJUSTABLE) HOUSING :DIE-CAST BRASS LENS/REFL :CLEAR LENS W/ROCK GUARD VOLTAGE :120V BALLAST :LED DRIVER	FIXTURE THE SAME AS TYPE 'L1' EXCEPT W/ ROCK GUARD BUILDING EXTERIOR
L4	LED 3000K 15W	WAC LIGHTING (OR APROVED OTHER)	R4RD2L SERIES	TYPE :4.5" DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :TRIM/OPTICS PER ARCHITECT VOLTAGE :MVOLT BALLAST :LED DRIVER	WIDE BEAM WET LOCATION LISTED BUILDING EXTERIOR
U1	LED 2700K 1000LM 15W	DESIGN CLASSICS (OR 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) (1.5W)	LITHONIA EMF 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	X1=SINGLE SIDE X2=DOUBLE SIDE

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.

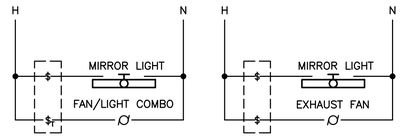
F. EGRESS LIGHTING SHALL BE PROVIDED TO MEET MINIMUM LIGHT LEVELS AS DESCRIBED PER OREGON STRUCTURAL SPECIALTY CODE 1006.3.

G. BUILDING EXTERIOR & SITE LIGHTING SHALL BE CONTROLLED VIA PHOTOCELL, EITHER INTEGRAL OR REMOTE, OR BY TIME CLOCK FOR DUSK-TILL-DAWN OPERATION.

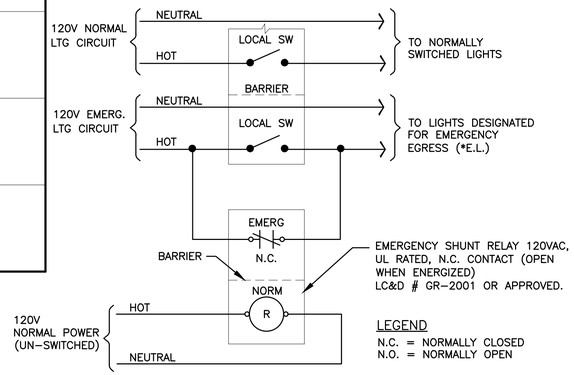
H. LIGHTING FIXTURES DESIGNATED AS NIGHT LIGHTS (N.L.) AND STAIRWELL LIGHTS SHALL BE ON 24/7.

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.

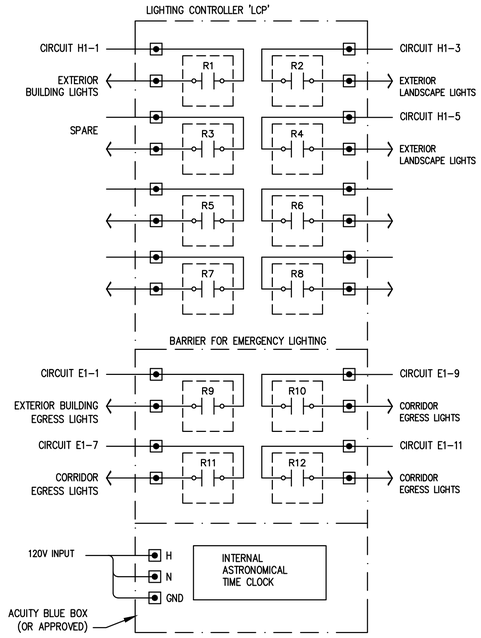
K. DESIGN INTENT FOR CORRIDOR LIGHTING SHALL BE SUCH THAT LIGHTS INDICATED AS NIGHT LIGHTS (N.L.), SHALL BE ON 24/7. ALL OTHER LIGHT FIXTURES TO BE CIRCUITED VIA TIME CLOCK TO REDUCE CORRIDOR LIGHTING BY 50% DURING PERIODS OF LOW ACTIVITY (IE. 12AM – 4AM OR AS DIRECTED BY OWNER).



1 E1.14 BATHROOM SWITCHING DIAGRAM – TYPICAL
NO SCALE

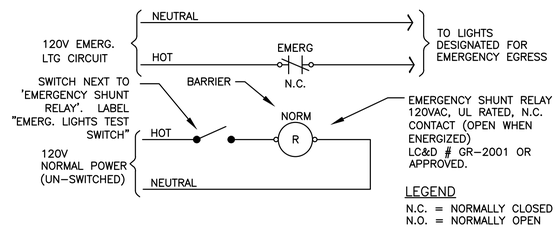


2 E1.14 EMERGENCY EGRESS LIGHTING – SWITCHED
NO SCALE



3 E1.14 LIGHTING CONTROL SYSTEM DIAGRAM – LCP
NO SCALE

TYPICAL FOR EACH BUILDING



4 E1.14 EMERGENCY EGRESS LIGHTING – UNSWITCHED
NO SCALE

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(R226159, R226160)

PERMIT SUBMITTAL

Issued:
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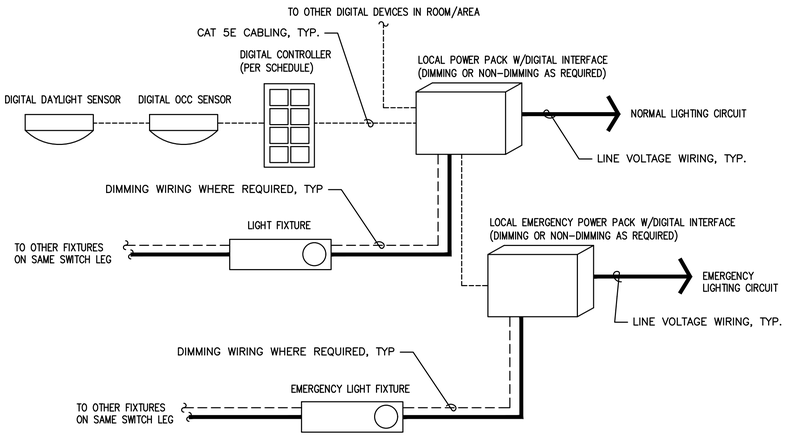
Job #: 2020

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

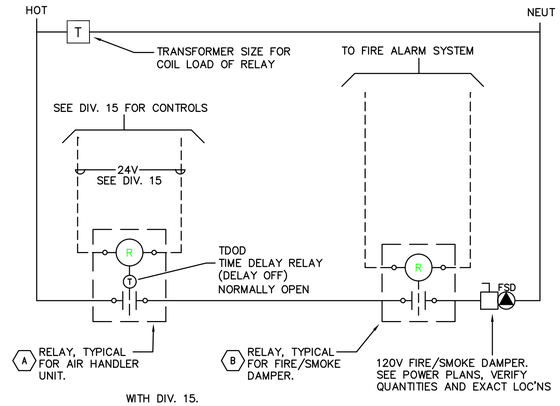
LIGHTING SCHEDULE & DETAILS

Drawing Number
E1.14



1 E1.15 DIGITAL LIGHTING CONTROL DIAGRAM (TYPICAL)

NO SCALE



2 E1.15 SMOKE/FIRE DAMPER CONTROL DIAGRAM

NO SCALE

ADDRESSABLE DETECTOR CONTROL

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

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

LIGHTING CONTROLS LEGEND

$_{LV1}$	DIGITAL CONTROLLER WITH ON/OFF & UP/DOWN DIM BUTTONS
$_{LV2}$	DIGITAL CONTROLLER WITH ON/OFF & UP/DOWN DIM BUTTONS FOR FIXTURES ON DUAL CIRCUITS.
$_{LV3}$	DIGITAL CONTROLLER WITH MULTI ZONE ON/OFF & UP/DOWN DIM BUTTONS FOR AREAS WHERE THERE ARE DUAL CIRCUIT AND SINGLE CIRCUIT FIXTURES IN THE SAME SPACE.
$_{LV2a-f}$	DIGITAL GRAPHIC CONTROLLER WITH MULTI ZONE ON/OFF & UP/DOWN DIM BUTTONS FOR AREAS WHERE THERE ARE DUAL CIRCUIT AND SINGLE CIRCUIT FIXTURES IN THE SAME SPACE.

LIGHTING CONTROL SYSTEM NOTES:

1. THE LIGHTING CONTROL SYSTEM SHALL BE A WIFI ENABLED SYSTEM, SUCH AS AQUITY nLITE, SIEMENS SEM3, LUTRON CASETA, OR SIMILAR PRODUCT. THE INTENT IS TO BE ABLE TO CONTROL COMMON AREA LIGHTING VIA TECH DEVICE AS WELL AS BY LOCAL CONTROLS.
2. ALL SPACES NOT CONTROLLED BY THE LIGHTING CONTROL SYSTEM SHALL BE BY CONTROLLED BY LOCAL DEVICES AS INDICATED ON THE LIGHTING PLANS.
3. CONSULT VENDOR AND/OR MANUFACTURER TO VERIFY THE SYSTEM MEETS DESIGN INTENT PRIOR TO SUBMITTING FOR REVIEW.
4. SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.

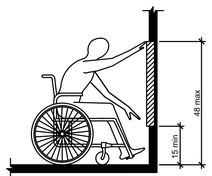


Figure 308.2.1
Unobstructed Forward Reach

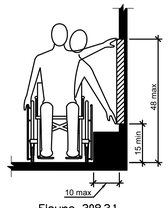


Figure 308.3.1
Unobstructed Side Reach

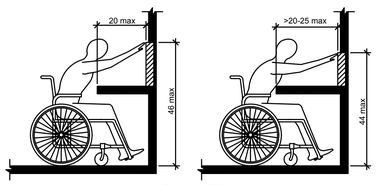


Figure 308.2.2
Obstructed High Forward Reach

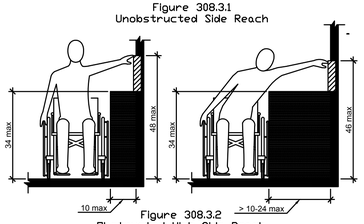


Figure 308.3.2
Obstructed High Side Reach

3 E1.15 ADA REACH REQUIREMENTS

N.T.S.

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.

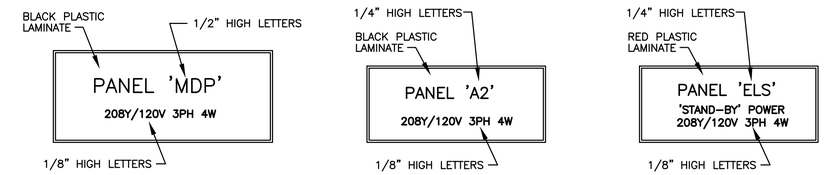
308.3 Side Reach.

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.

.



4 E1.15 SWITCHBOARD/PANEL LABELING DETAIL

NO SCALE

NOTE: ALL LETTERS ARE ENGRAVED WHITE

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PERMIT SUBMITTAL

Issued:

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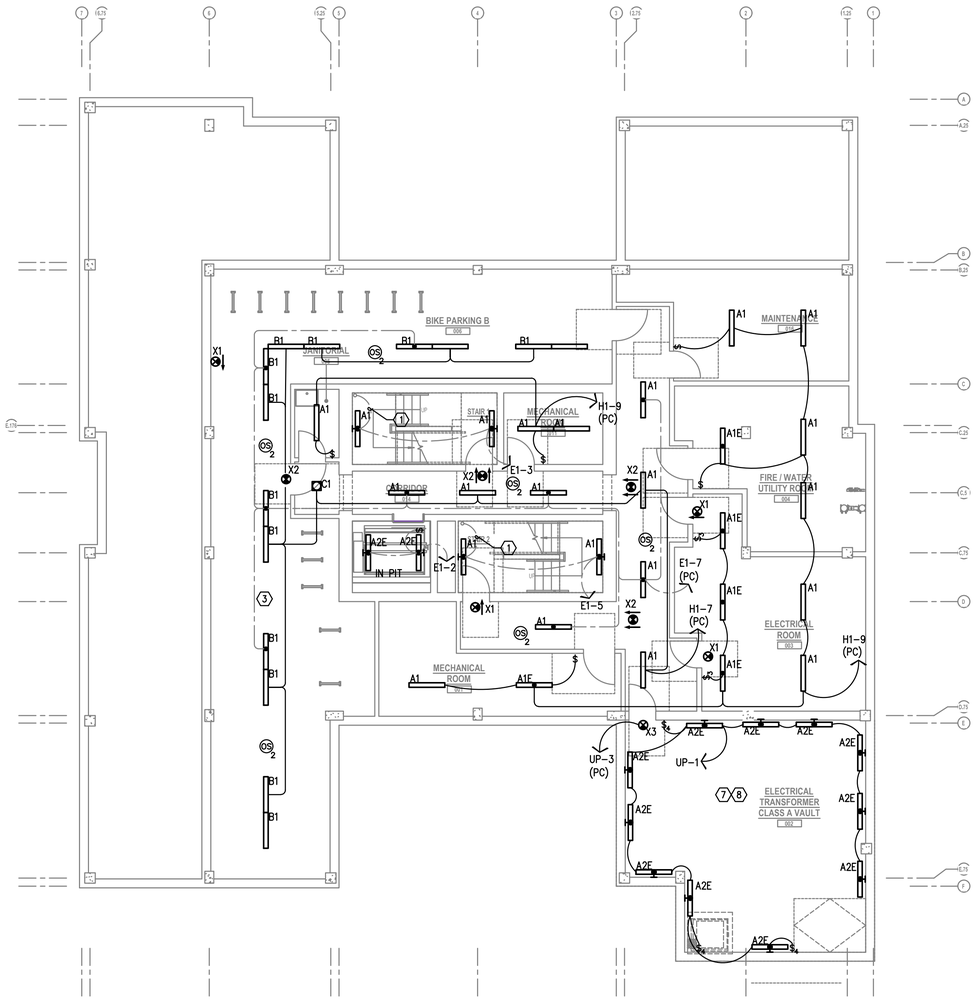
Job #: 2020

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

ELECTRICAL DETAILS

Drawing Number

E1.15



1 E2.00 BASEMENT LEVEL 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.

K. ALL EXIT SIGNS (EXCEPT IN CLASS A VAULT ROOM) SHALL BE TIED INTO THE NEAREST CIRCUIT SERVING THE STAIRWELLS.

⬡ KEYED NOTES:

1. CONTINUE CIRCUIT UP THROUGH THE STAIRWELL.
2. EXTERIOR BUILDING LIGHTS TO BE CONTROLLED VIA TIME CLOCK OR LIGHTING CONTROL SYSTEM 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. SEE E1.01 FOR IN-GROUND FIXTURE LOCATIONS. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND COORDINATE WITH CIVIL FOR THE CONCRETE POUR PRIOR TO ROUGH IN.
7. ALL LIGHTING WITHIN THE CLASS A TRANSFORMER VAULT ROOM SHALL BE PER THE UTILITY PROVIDER'S SPECIFICATIONS. THE LIGHTING SHALL BE CIRCUITED FROM THE UTILITY'S BRANCH PANEL 'UP' LOCATED WITHIN THE SPACE. FOR ADDITIONAL INFORMATION, CONSULT THE UTILITY PROVIDER'S SPECIFICATION DOCUMENTATION FOR CLASS A VAULTS.
8. REFER TO THE 'T' SERIES SHEETS AND PROVIDE ROUGH-IN (AND INSTALLATION WHERE REQUIRED) FOR ALL LOW VOLTAGE DEVICES INCLUDING EGRESS STROBE LIGHTS MOUNTED AT 36" AFF.

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Project Name:

MINNESOTA PLACES

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

PERMIT SUBMITTAL

Issued:

PERMIT SUBMITTAL	8.16.2021

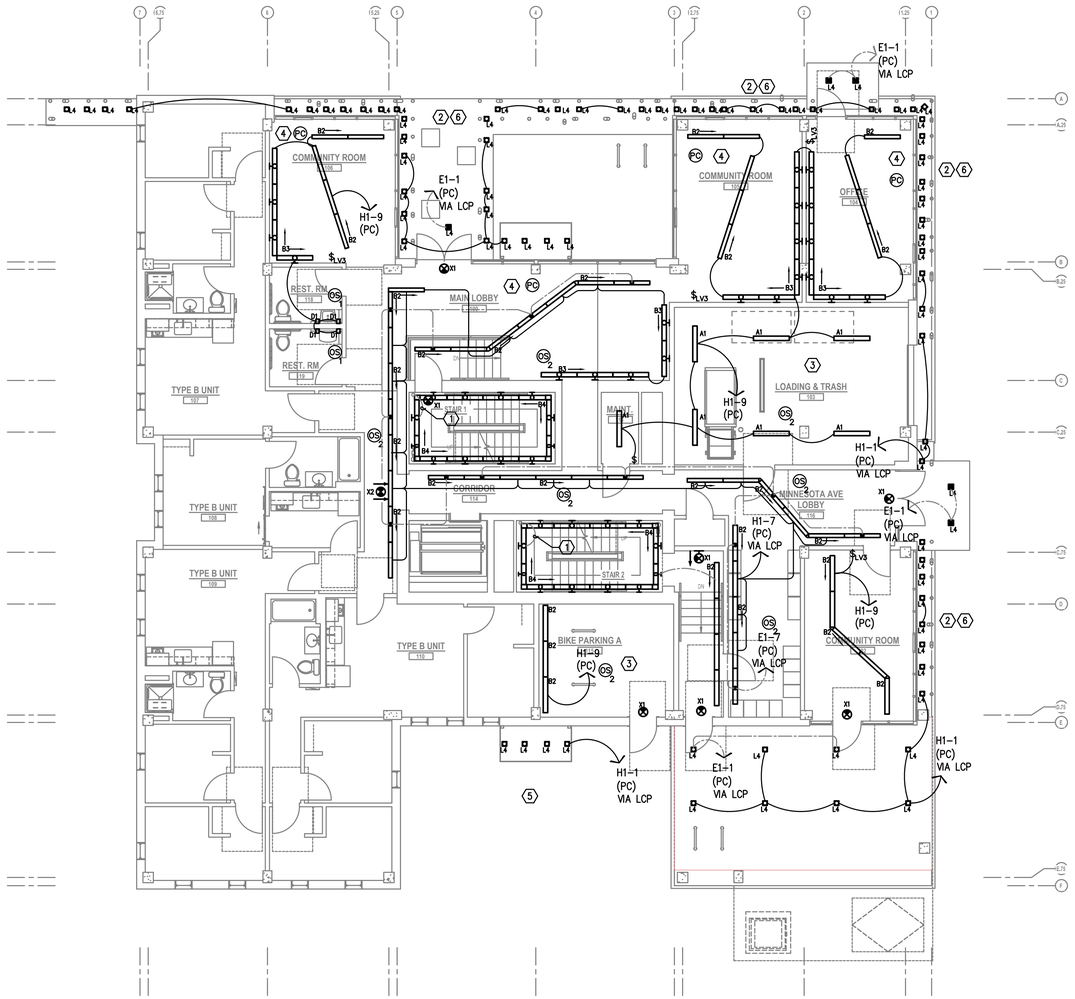
Job #: 2020

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

BASEMENT LEVEL LIGHTING PLAN

Drawing Number

E2.00



1 E2.01 FIRST 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.

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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.

K. ALL EXIT SIGNS (EXCEPT IN CLASS A VAULT ROOM) SHALL BE TIED INTO THE NEAREST CIRCUIT SERVING THE STAIRWELLS.

⬡ KEYED NOTES:

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2. EXTERIOR BUILDING LIGHTS TO BE CONTROLLED VIA TIME CLOCK OR LIGHTING CONTROL SYSTEM FOR DUSK-TILL-DAWN OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E1.13 FOR ADDITIONAL INFORMATION.
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5. CONTRACTOR TO COORDINATE WITH LANDSCAPE LIGHTING INSTALLER AND PROVIDE ROUGH-IN AND POWER CONNECTION(S) AS REQUIRED.
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7. ALL LIGHTING WITHIN THE CLASS A TRANSFORMER VAULT ROOM SHALL BE PER THE UTILITY PROVIDER'S SPECIFICATIONS. THE LIGHTING SHALL BE CIRCUITED FROM THE UTILITY'S BRANCH PANEL 'UP' LOCATED WITHIN THE SPACE. FOR ADDITIONAL INFORMATION, CONSULT THE UTILITY PROVIDER'S SPECIFICATION DOCUMENTATION FOR CLASS A VAULTS.
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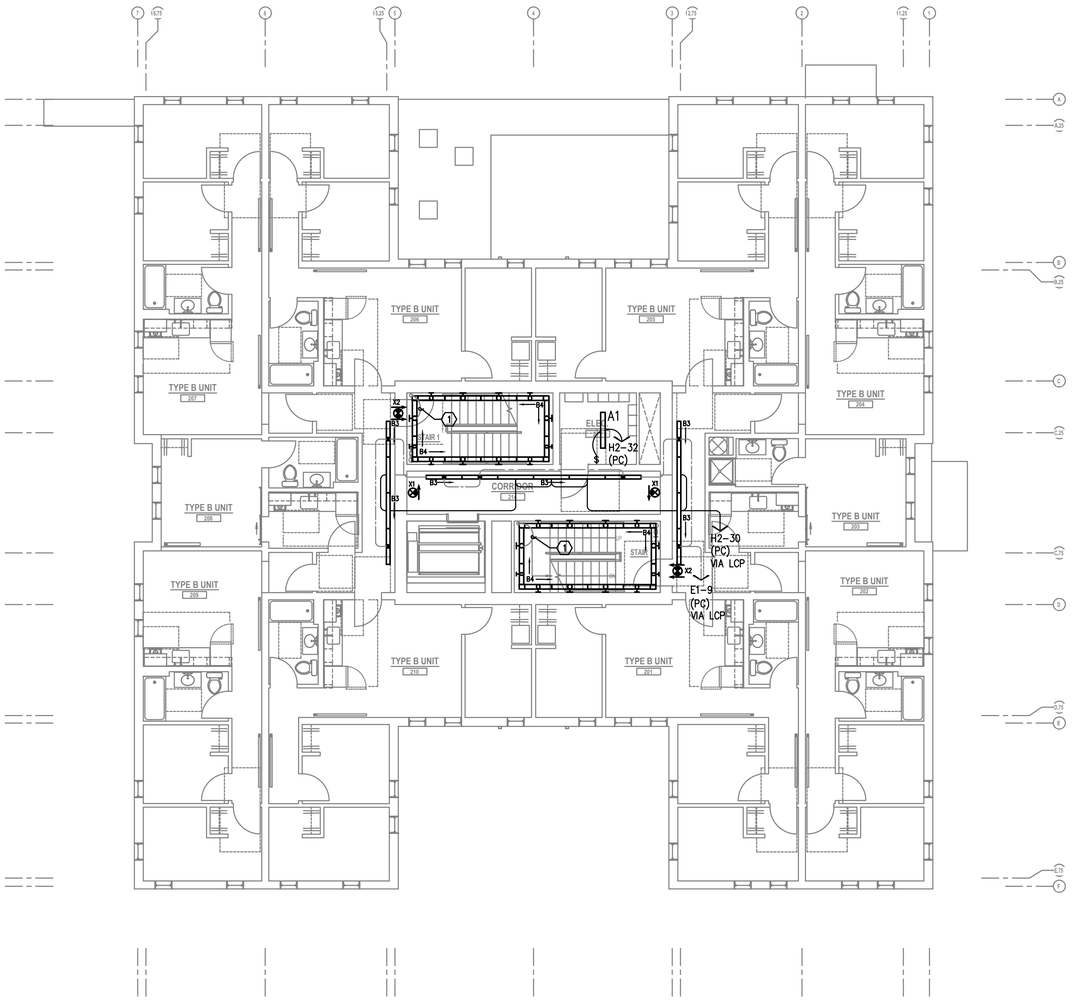
FIRST FLOOR LIGHTING PLAN

Drawing Number

E2.01



1 E2.02 SECOND 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.

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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.

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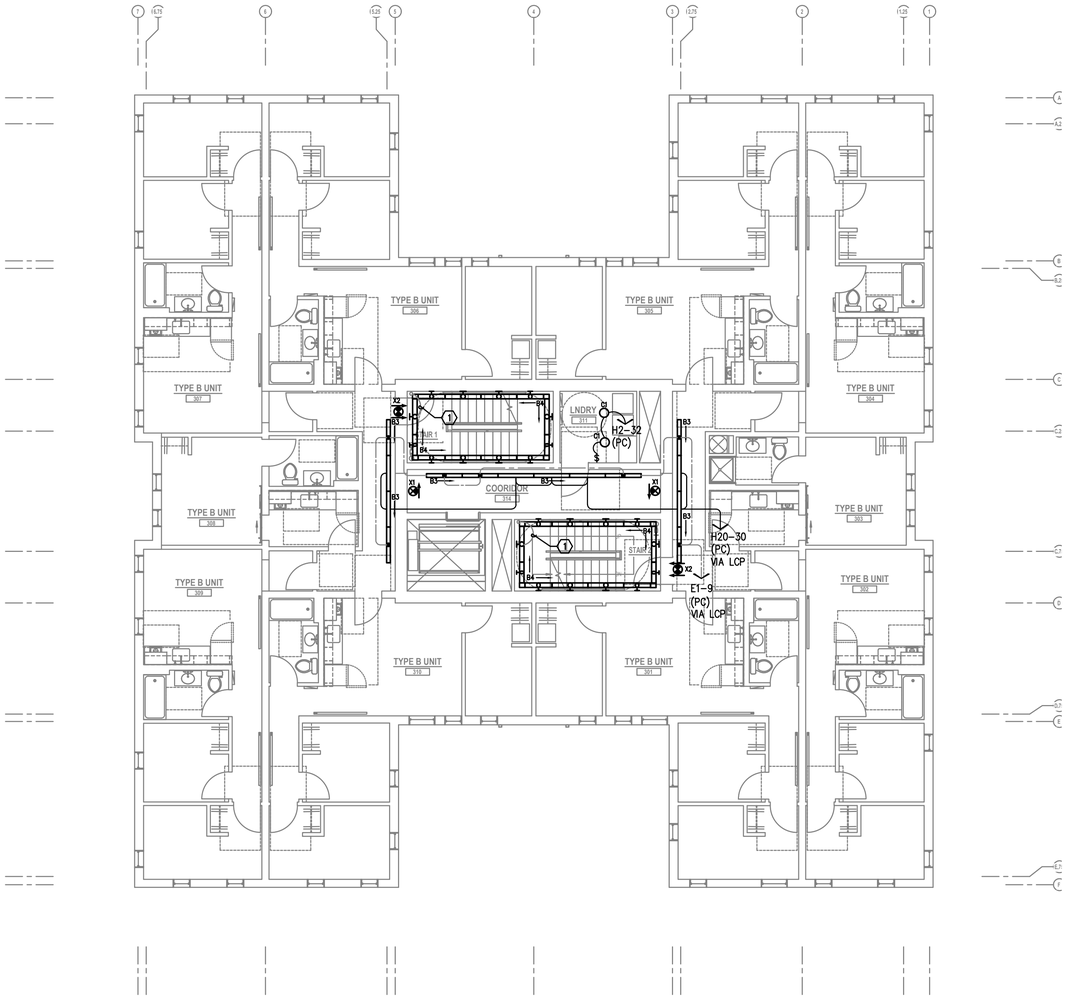
SECOND FLOOR LIGHTING PLAN

Drawing Number
E2.02



1 E2.03 THIRD 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.

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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.

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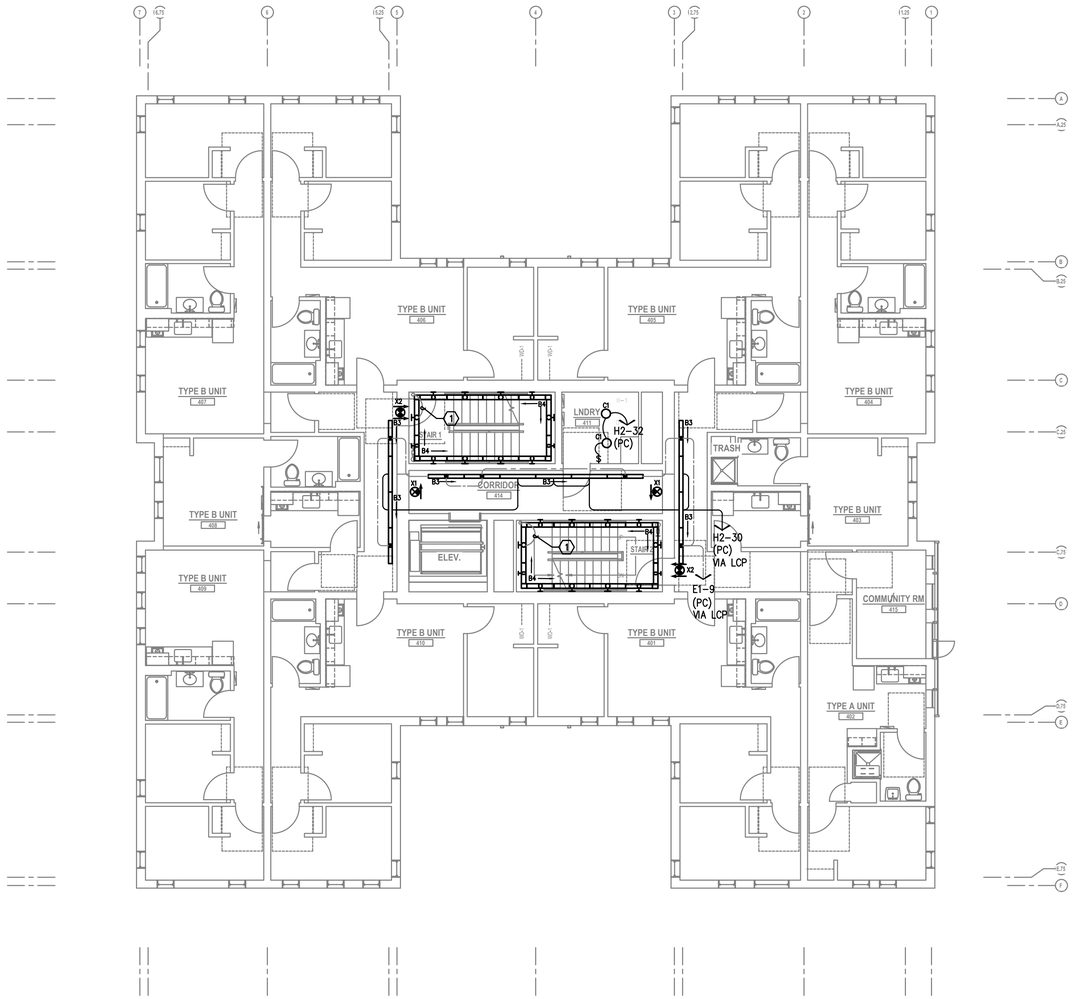
THIRD FLOOR LIGHTING PLAN

Drawing Number
E2.03



1 / E2.04 FOURTH 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.

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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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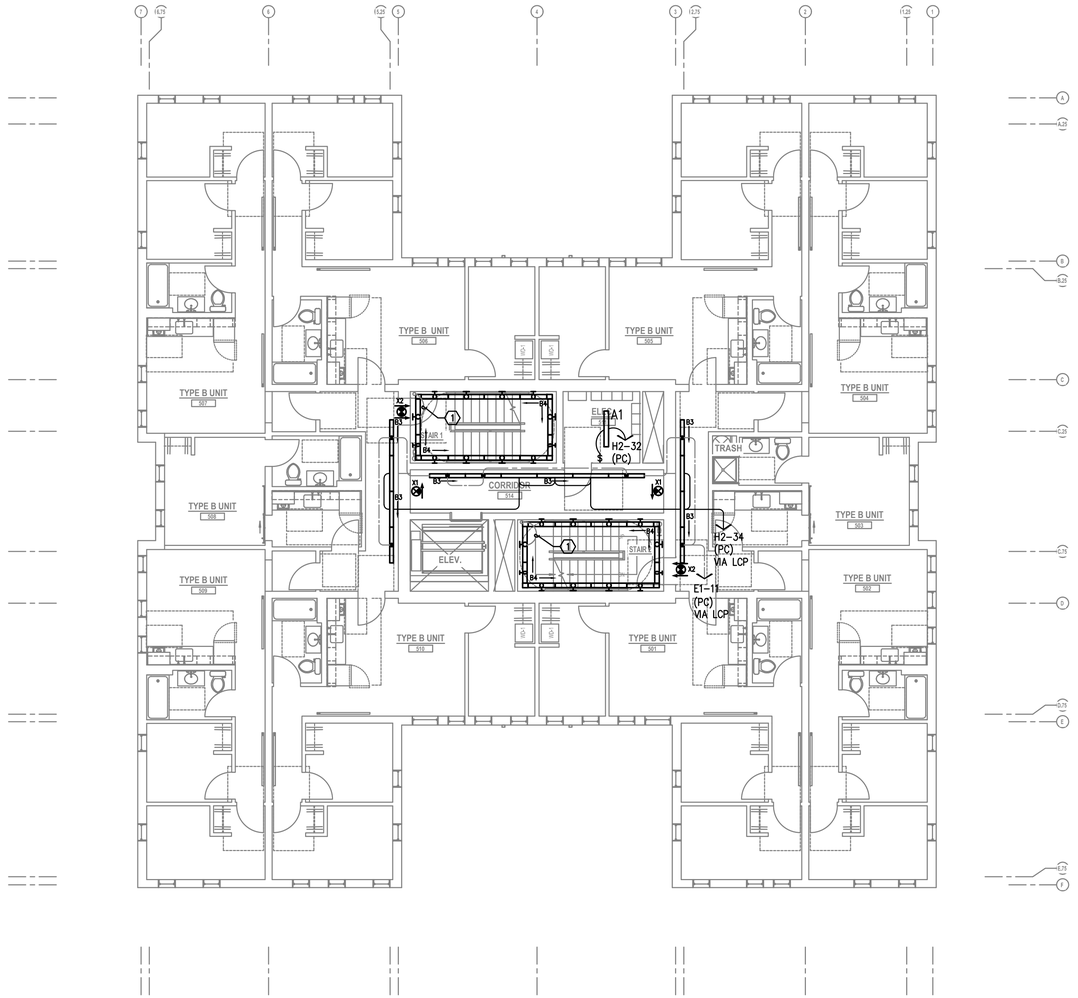
FOURTH FLOOR LIGHTING PLAN

Drawing Number
E2.04



1 / E2.05 FIFTH FLOOR LIGHTING PLAN

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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. SEE E1.01 FOR IN-GROUND FIXTURE LOCATIONS. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND COORDINATE WITH CIVIL FOR THE CONCRETE POUR PRIOR TO ROUGH IN.
7. ALL LIGHTING WITHIN THE CLASS A TRANSFORMER VAULT ROOM SHALL BE PER THE UTILITY PROVIDER'S SPECIFICATIONS. THE LIGHTING SHALL BE CIRCUITED FROM THE UTILITY'S BRANCH PANEL 'UP' LOCATED WITHIN THE SPACE. FOR ADDITIONAL INFORMATION, CONSULT THE UTILITY PROVIDER'S SPECIFICATION DOCUMENTATION FOR CLASS A VAULTS.
8. REFER TO THE 'T' SERIES SHEETS AND PROVIDE ROUGH-IN (AND INSTALLATION WHERE REQUIRED) FOR ALL LOW VOLTAGE DEVICES INCLUDING EGRESS STROBE LIGHTS MOUNTED AT 36" AFF.

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Project Owner:

SMART PDX PROPERTIES, LLC

Project Name:

MINNESOTA PLACES

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

PERMIT SUBMITTAL

Issued:

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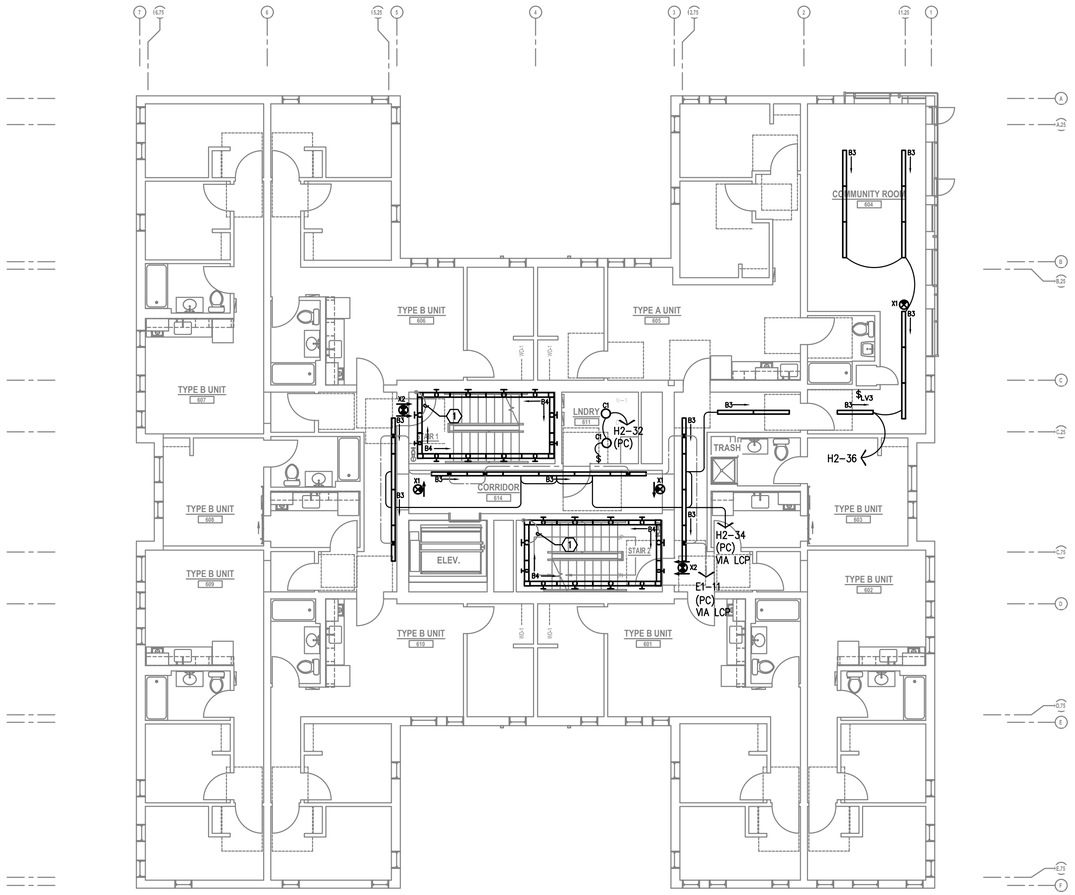
Job #: 2020

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

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.

K. ALL EXIT SIGNS (EXCEPT IN CLASS A VAULT ROOM) SHALL BE TIED INTO THE NEAREST CIRCUIT SERVING THE STAIRWELLS.

⬡ KEYED NOTES:

1. CONTINUE CIRCUIT UP THROUGH THE STAIRWELL.
2. EXTERIOR BUILDING LIGHTS TO BE CONTROLLED VIA TIME CLOCK OR LIGHTING CONTROL SYSTEM FOR DUSK-TILL-DAWN OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E1.13 FOR ADDITIONAL INFORMATION.
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5. CONTRACTOR TO COORDINATE WITH LANDSCAPE LIGHTING INSTALLER AND PROVIDE ROUGH-IN AND POWER CONNECTION(S) AS REQUIRED.
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7. ALL LIGHTING WITHIN THE CLASS A TRANSFORMER VAULT ROOM SHALL BE PER THE UTILITY PROVIDER'S SPECIFICATIONS. THE LIGHTING SHALL BE CIRCUITED FROM THE UTILITY'S BRANCH PANEL 'UP' LOCATED WITHIN THE SPACE. FOR ADDITIONAL INFORMATION, CONSULT THE UTILITY PROVIDER'S SPECIFICATION DOCUMENTATION FOR CLASS A VAULTS.
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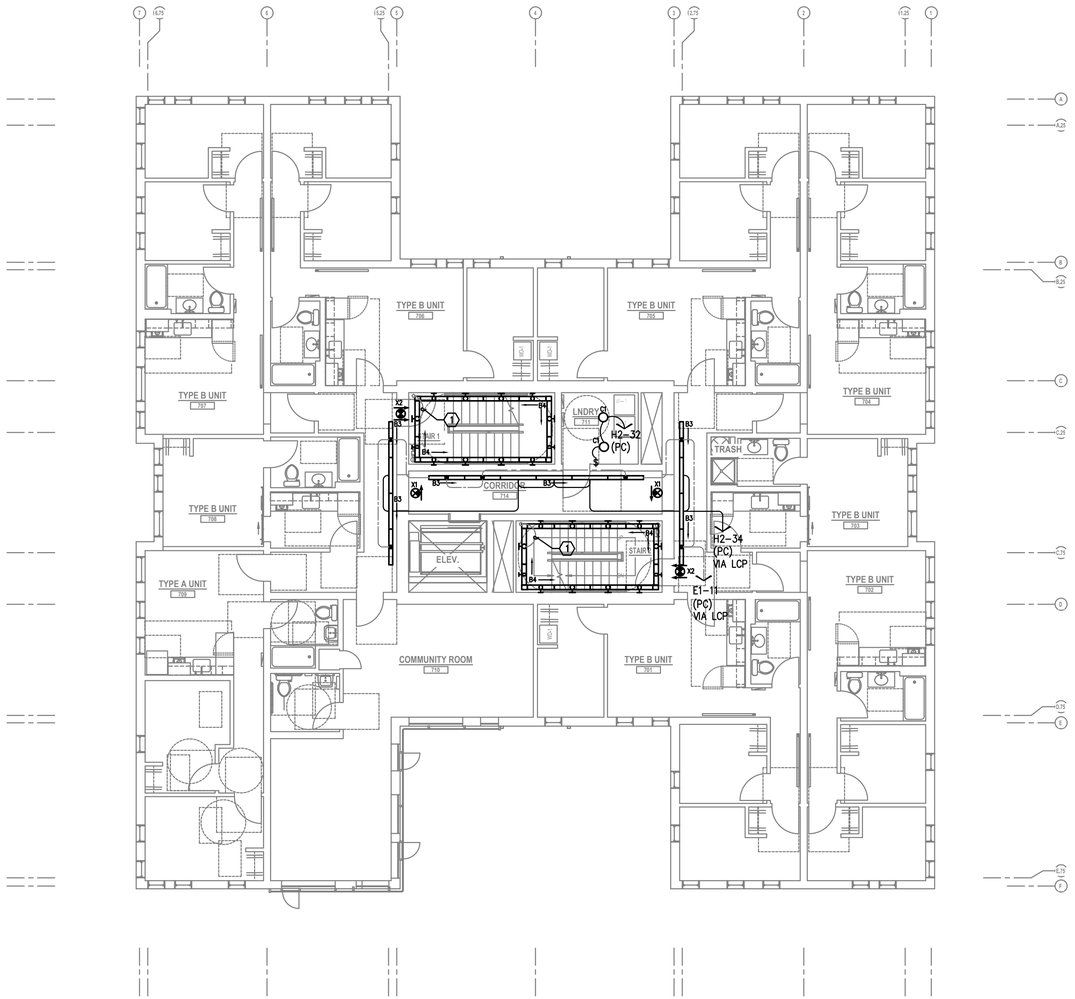
SIXTH FLOOR LIGHTING PLAN

Drawing Number
E2.06



1 E2.07 SEVENTH FLOOR LIGHTING PLAN

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

GENERAL LIGHTING NOTES:

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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.

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⬡ KEYED NOTES:

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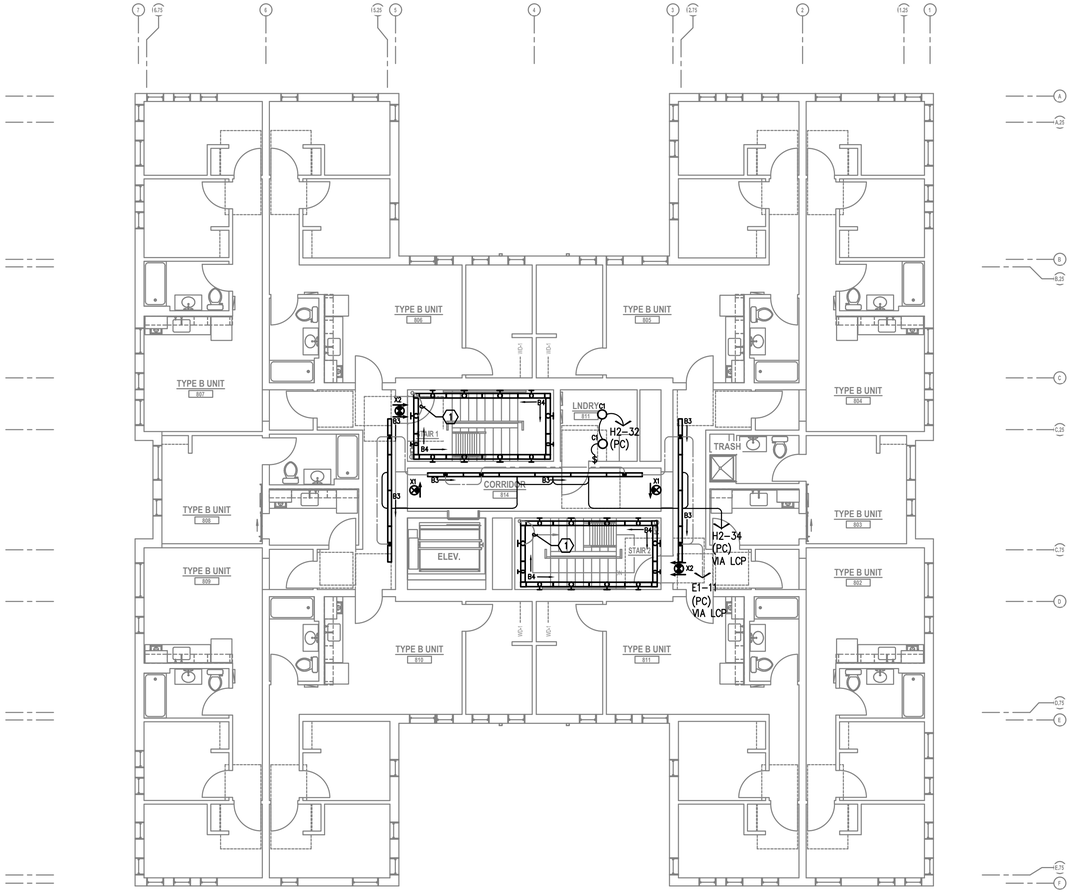
SEVENTH FLOOR LIGHTING PLAN

Drawing Number

E2.07



1 EIGHTH FLOOR LIGHTING PLAN
E2.08 SCALE: 1/8" = 1'-0"

GENERAL LIGHTING NOTES:

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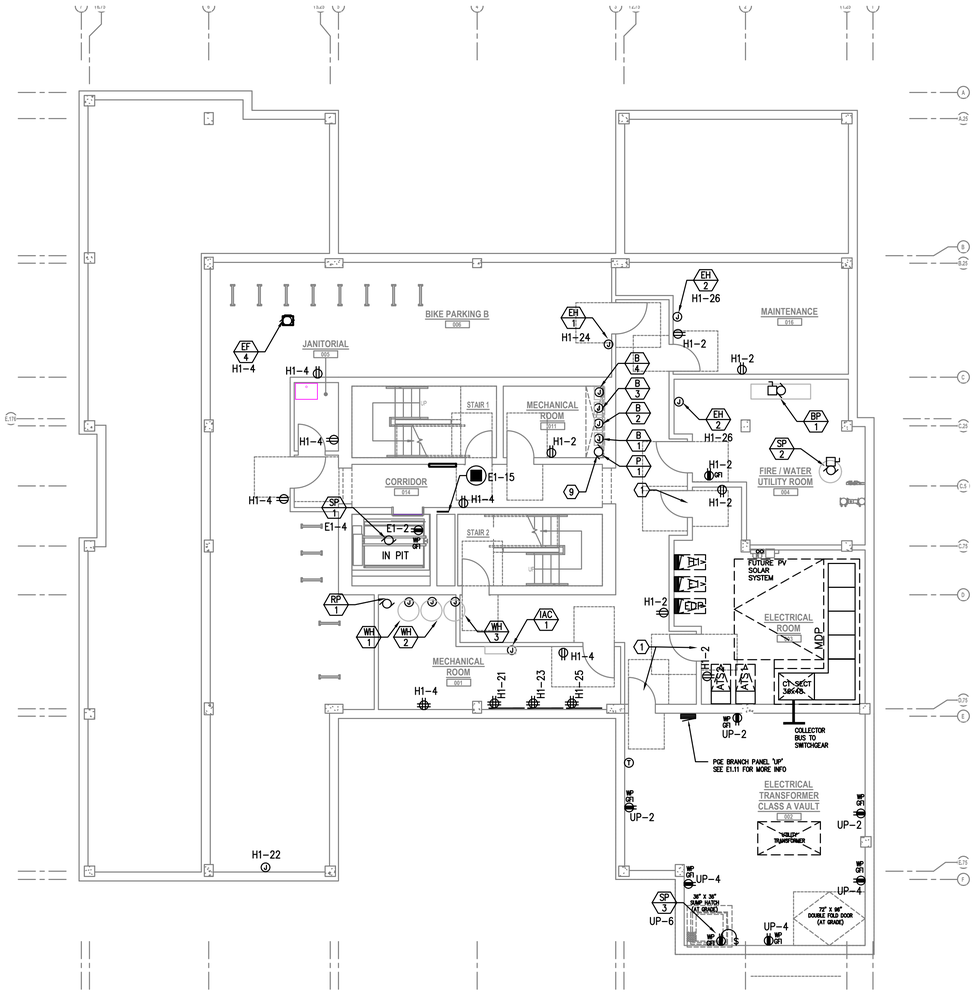
EIGHTH FLOOR LIGHTING PLAN

Drawing Number
E2.08



1 E3.00 BASEMENT LEVEL POWER PLAN
SCALE: 1/8" = 1'-0"

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 ASPECS OF THE VAULT ROOM

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.
7. ELECTRICAL PENETRATIONS INTO SHAFT TO FEED UPPER FLOORS.

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BASEMENT LEVEL POWER PLAN

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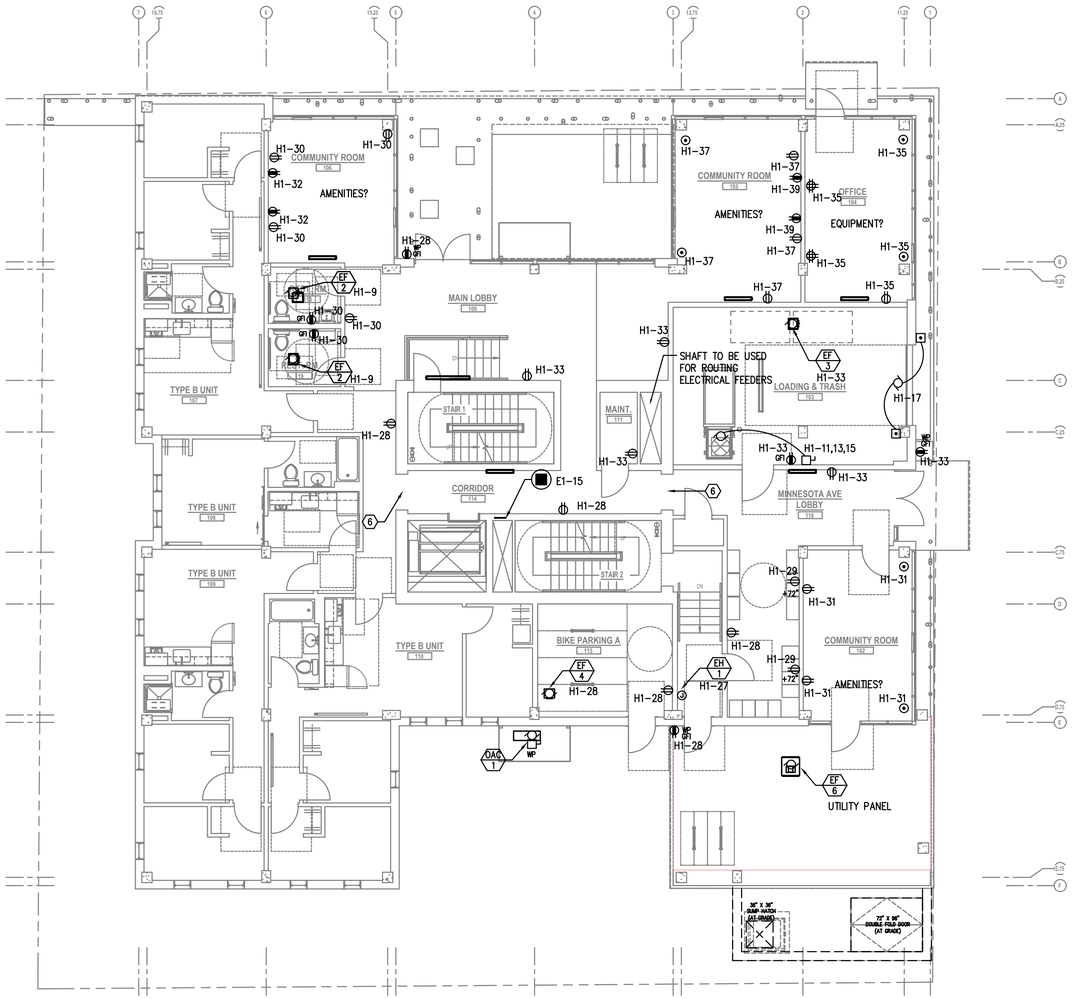
E3.00



1 E3.01 FIRST FLOOR POWER PLAN
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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.
7. ELECTRICAL PENETRATIONS INTO SHAFT TO FEED UPPER FLOORS.

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Project Owner:
SMART PDX PROPERTIES, LLC

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

PERMIT SUBMITTAL

Issued:

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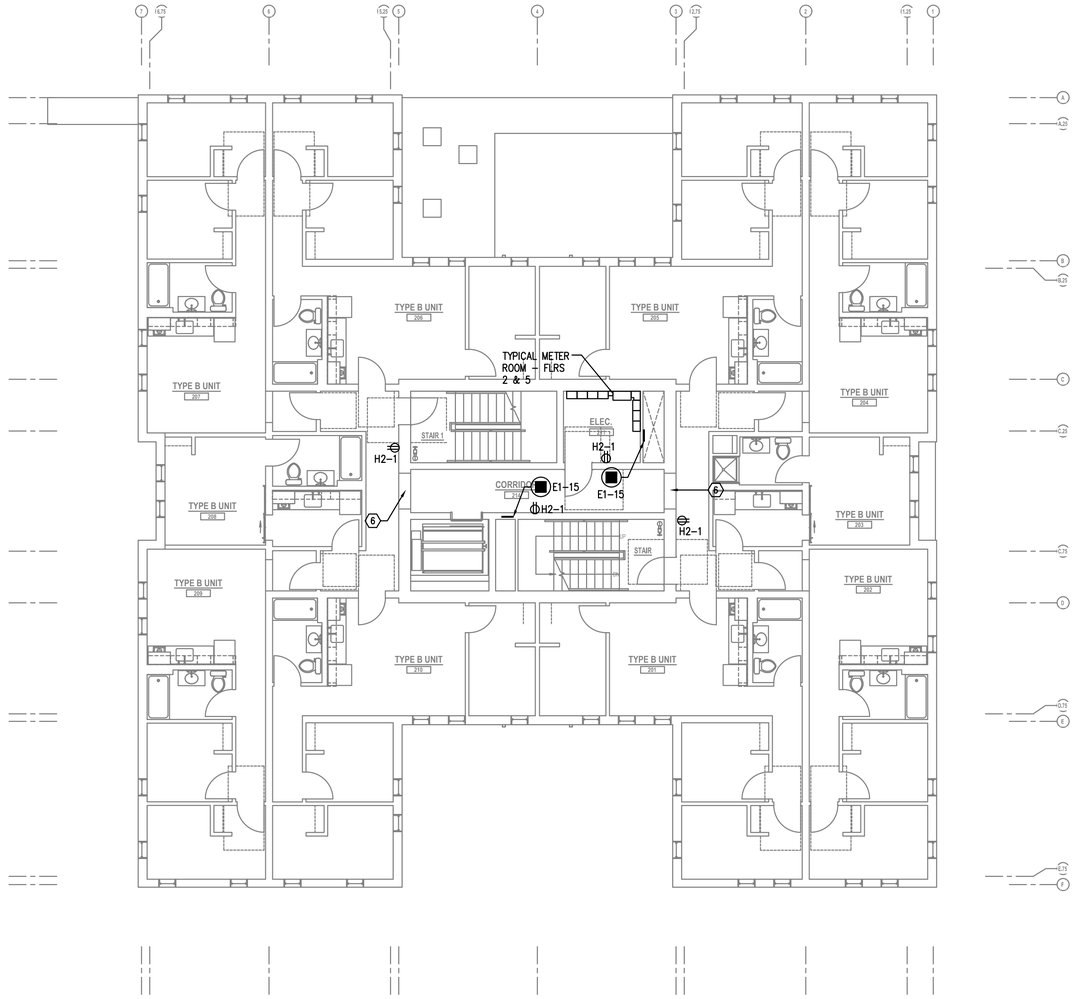
Job #: 2020

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

FIRST FLOOR POWER PLAN

Drawing Number
E3.01



1 E3.02 SECOND 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 PRIO 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.

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

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L. REFER TO 'E4' SERIES SHEETS FOR TYPICAL DWELLING UNIT POWER PLANS.

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PERMIT SUBMITTAL

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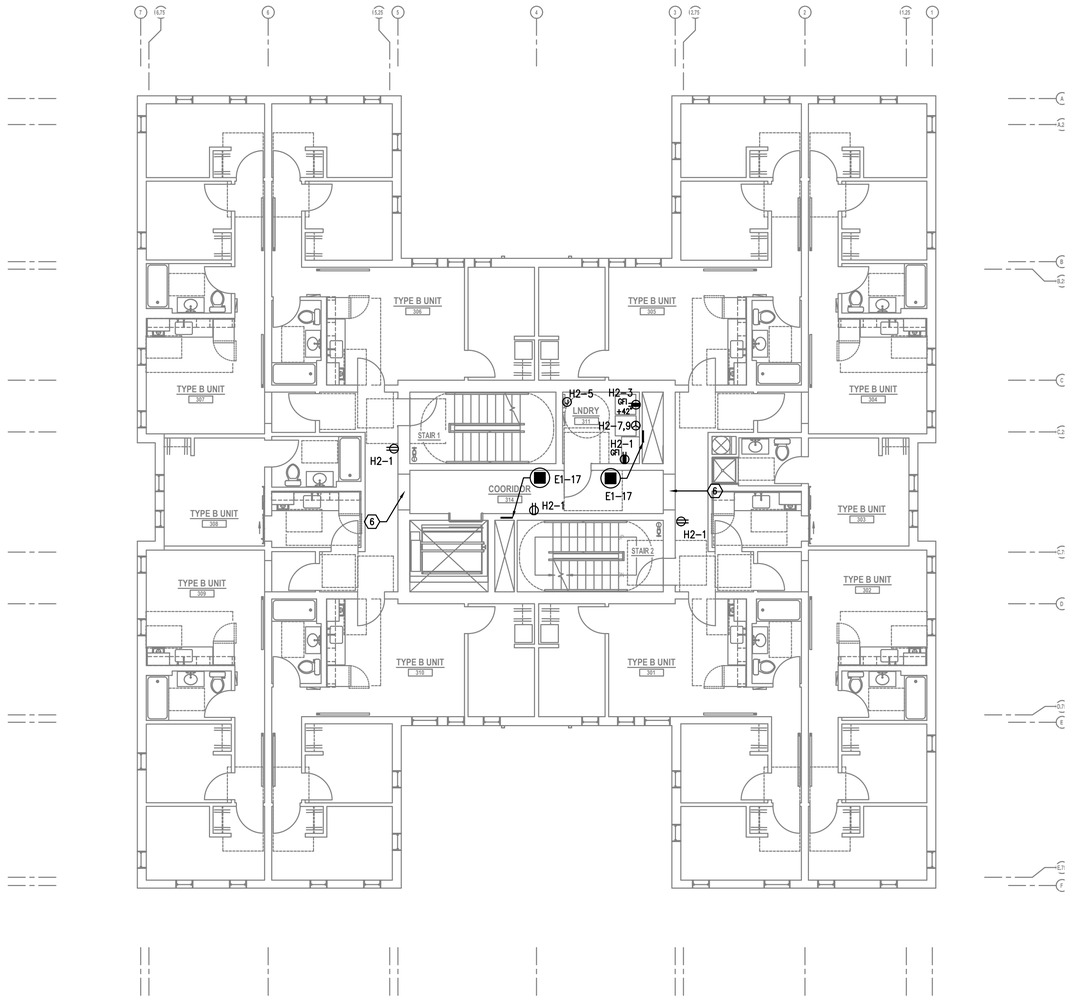
HALF SIZE: 12" x 18"

SECOND FLOOR POWER PLAN

Drawing Number
E3.02



1 E3.03 THIRD 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 PRIO TO AND DURING CONSTRUCTION.

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(R226159, R226160)

PERMIT SUBMITTAL

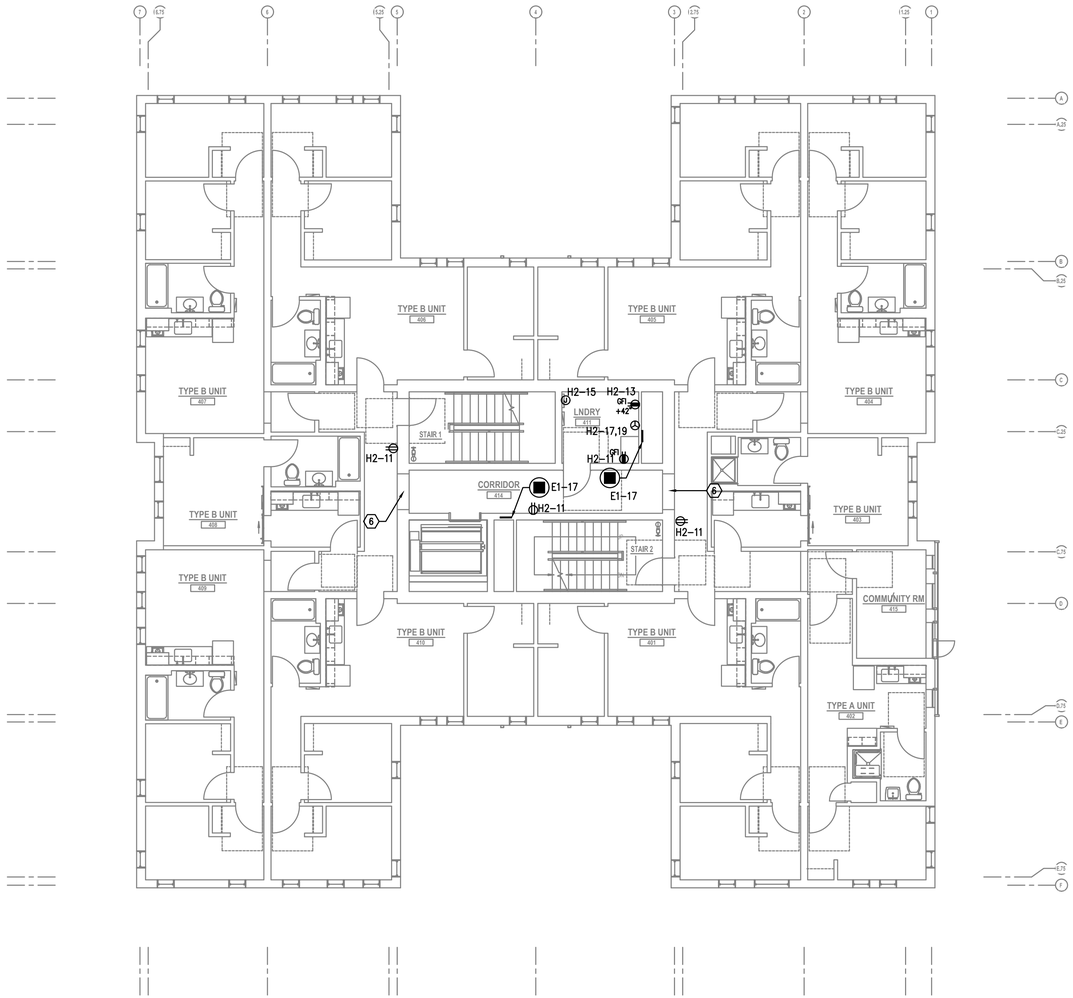
Issued:
PERMIT SUBMITTAL 8.16.2021

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"

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 PRIO TO AND DURING CONSTRUCTION.

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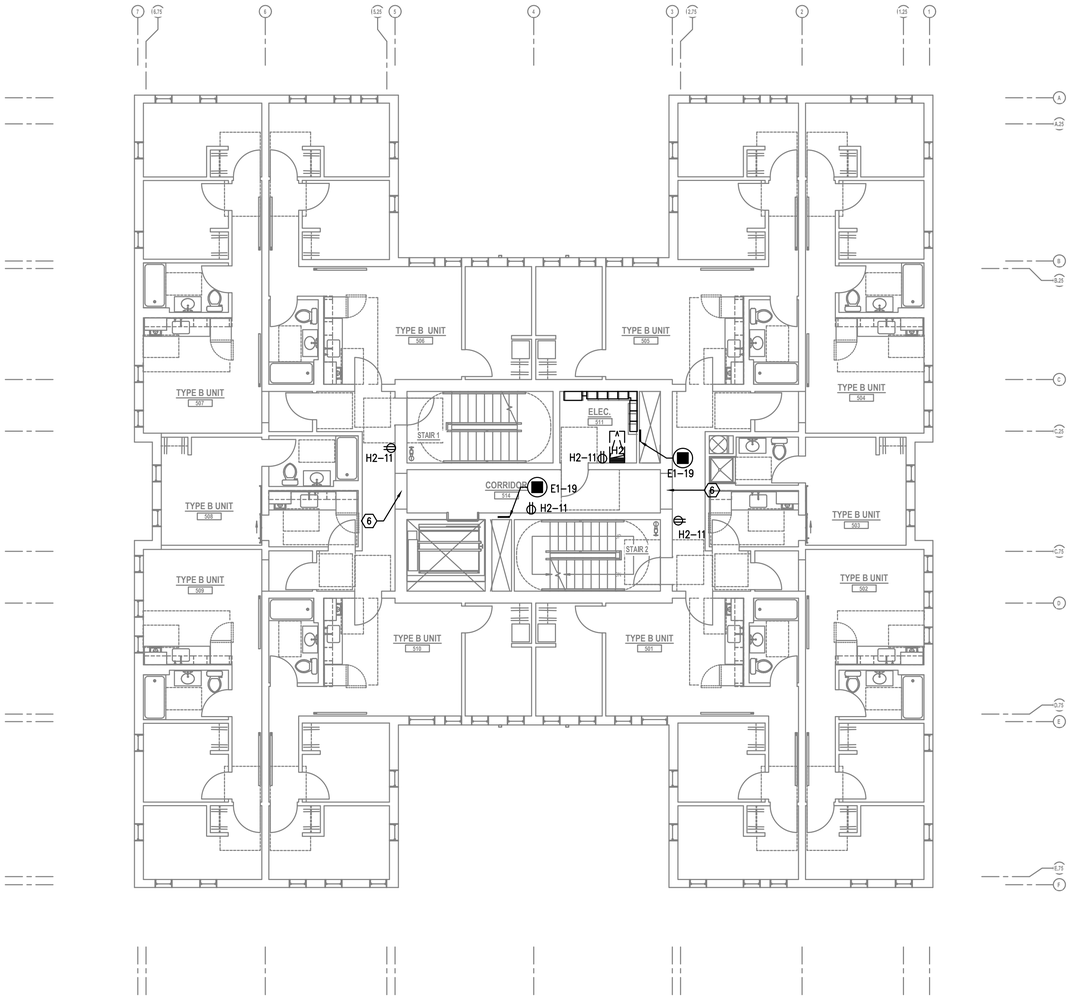
FOURTH FLOOR POWER PLAN

Drawing Number

E3.04



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

GENERAL POWER NOTES:

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6. STRUCTURAL OPENING TO BE USED FOR CONDUIT AND CONDUCTOR PENETRATION FROM THE CORE SPACE TO THE CORRIDORS. CONSULT STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.
7. ELECTRICAL PENETRATIONS INTO SHAFT TO FEED UPPER FLOORS.

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

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CONTACT: DENISE TAYLOR

Project Owner:
SMART PDX PROPERTIES, LLC

Project Name:
MINNESOTA PLACES

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

PERMIT SUBMITTAL

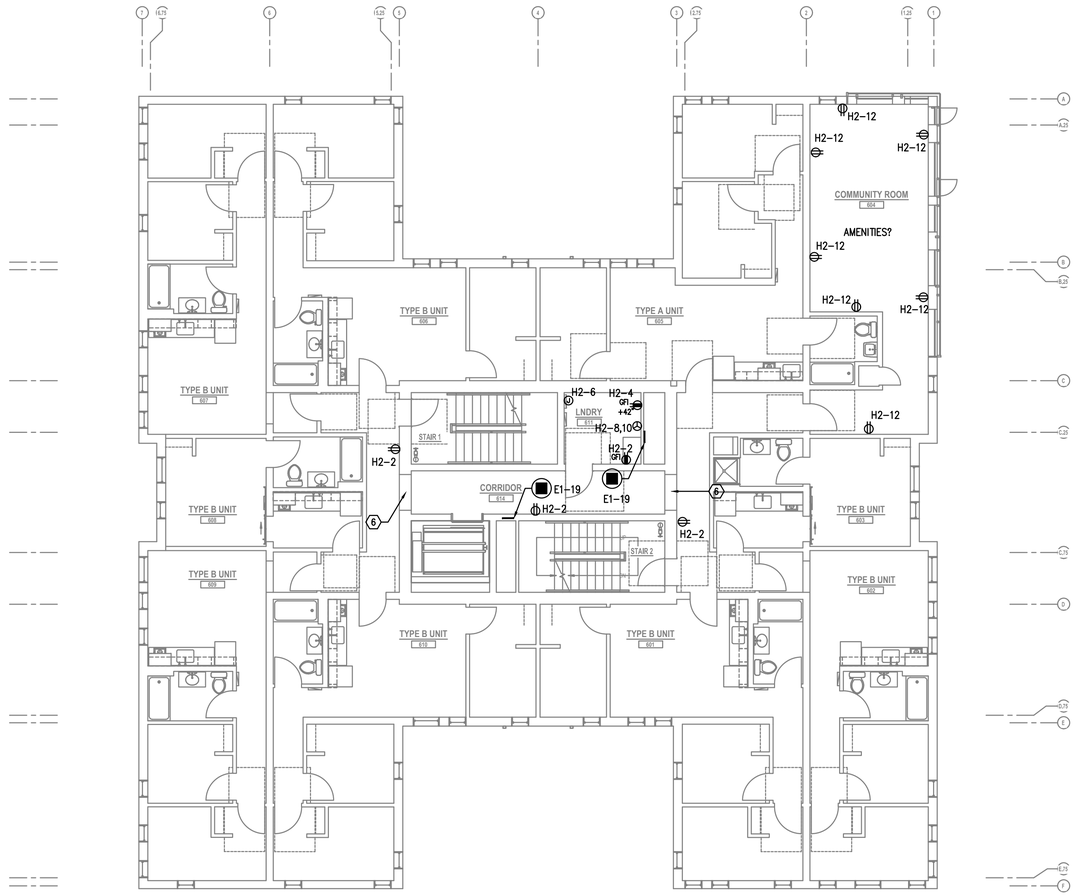
Issued:	
PERMIT SUBMITTAL	8.16.2021

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 PRIO 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 REQUIREMEI 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 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 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 SWI

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 APPLIANCE CIRCUITED TO PANEL 'XX'. REFER TO PANEL SCHEDULE ON SHEET E1.12.
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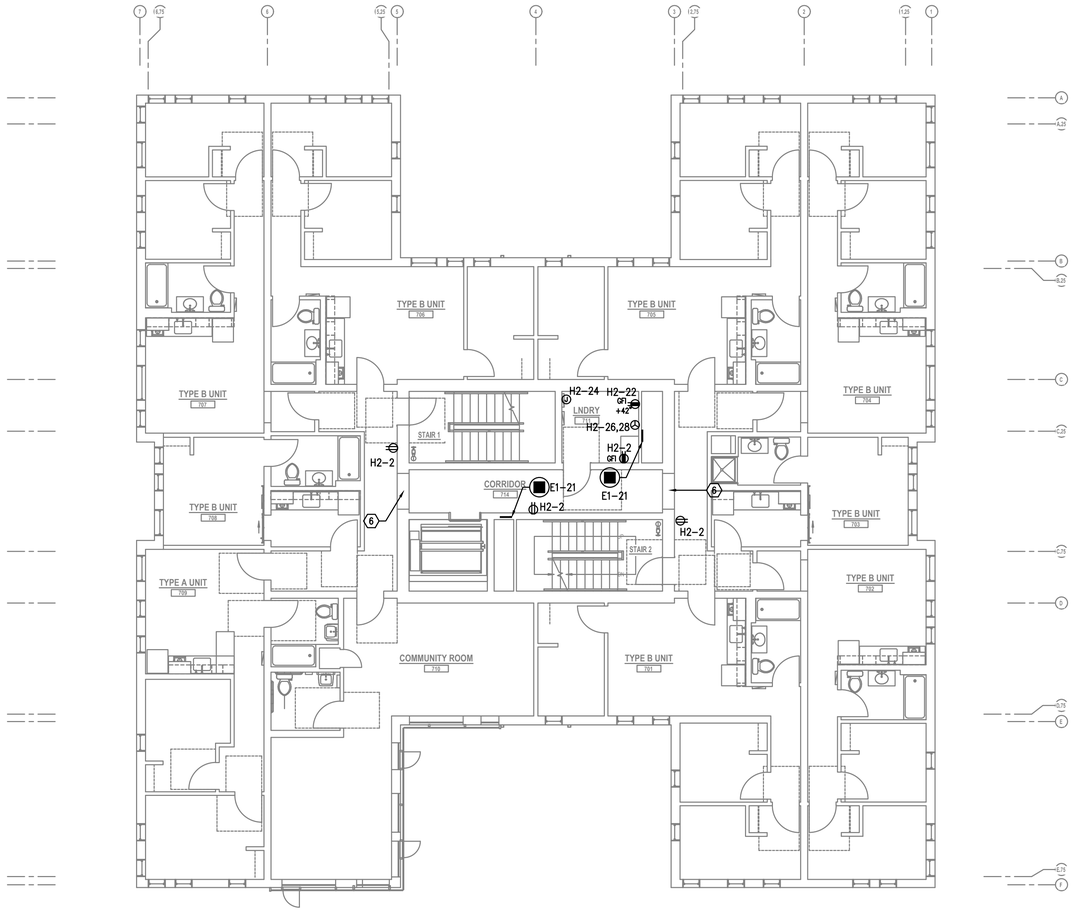
SIXTH FLOOR POWER PLAN

Drawing Number

E3.06



1 E3.07 SEVENTH 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 PRIO TO AND DURING CONSTRUCTION.

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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.

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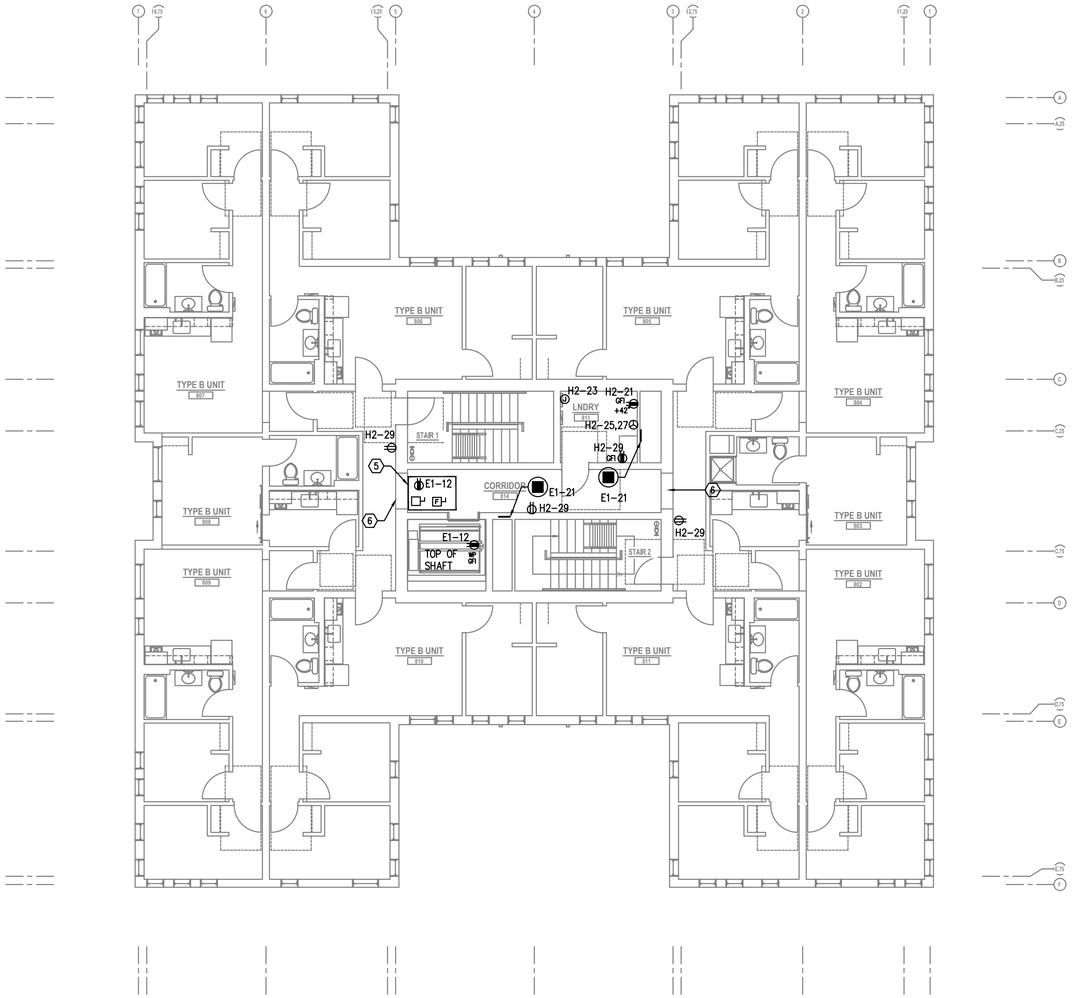
SEVENTH FLOOR POWER PLAN

Drawing Number

E3.07



1 E3.08 EIGHTH FLOOR POWER PLAN

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

GENERAL POWER NOTES:

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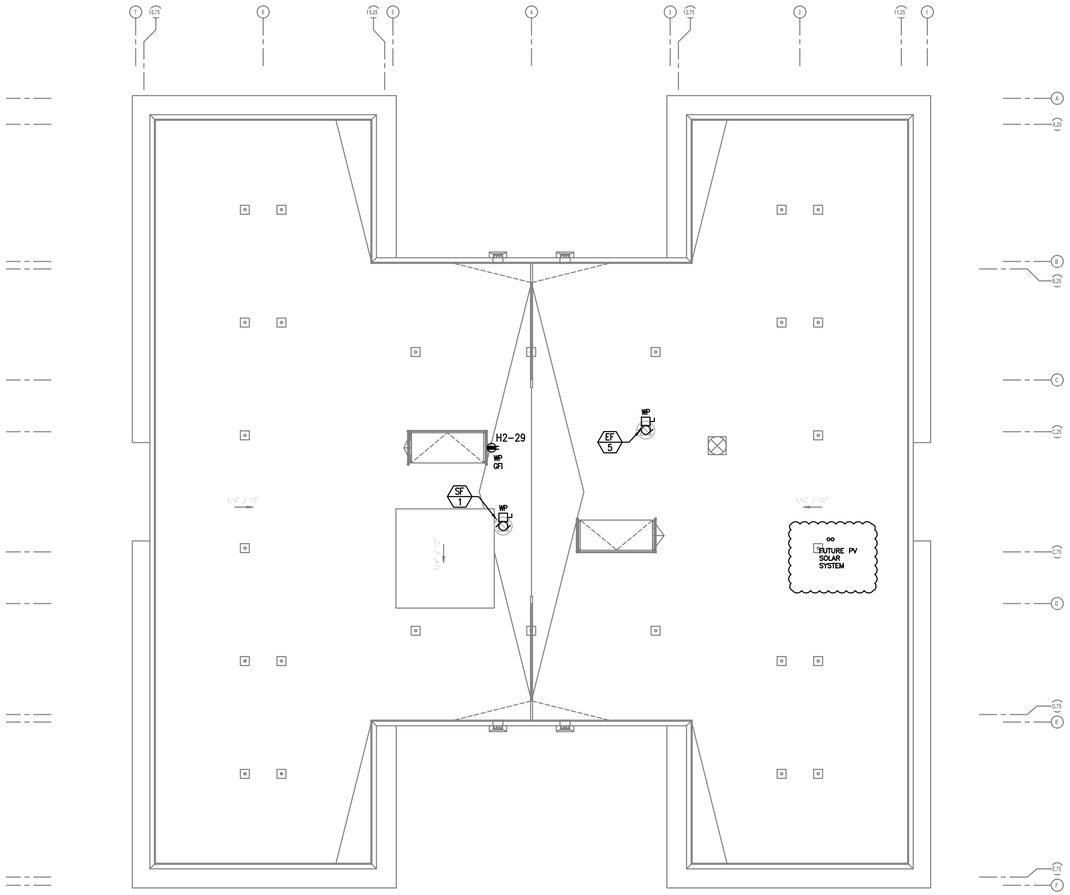
EIGHTH FLOOR POWER PLAN

Drawing Number

E3.08



1 E3.09 ROOF LEVEL POWER PLAN
SCALE: 1/8" = 1'-0"

GENERAL POWER NOTES:

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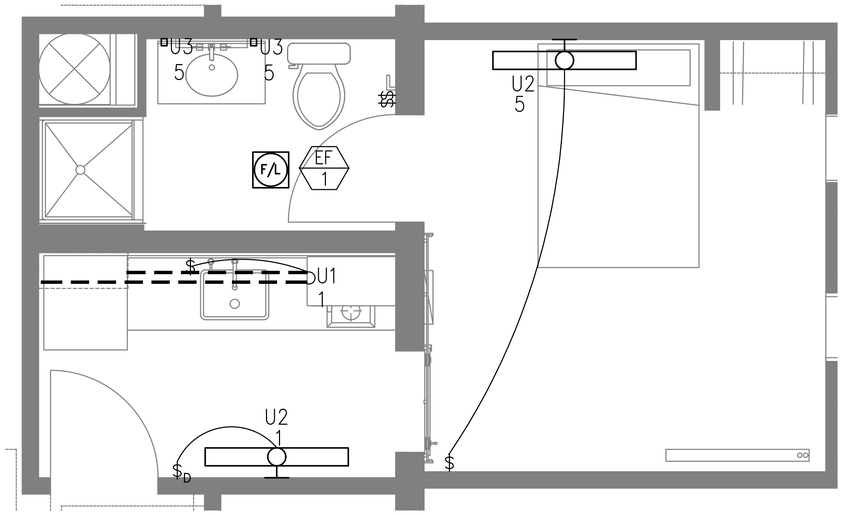
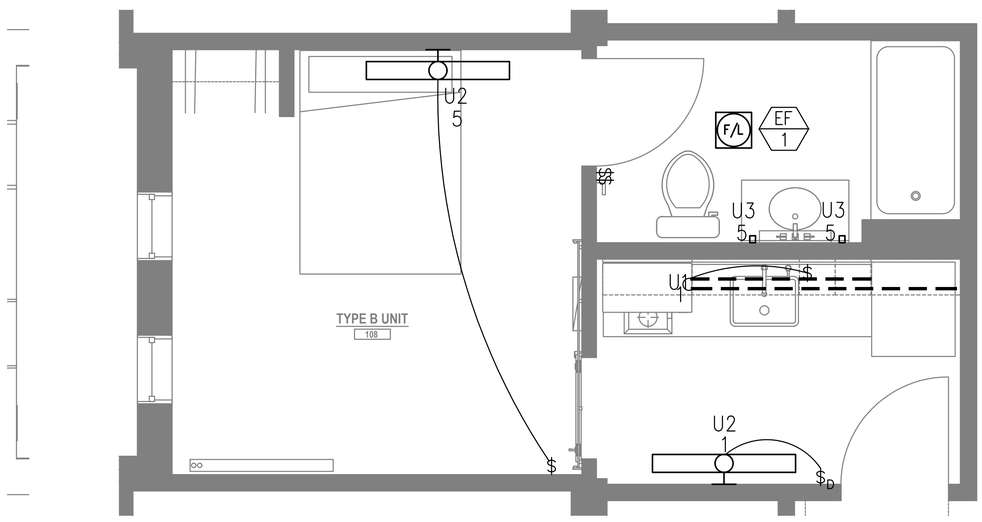
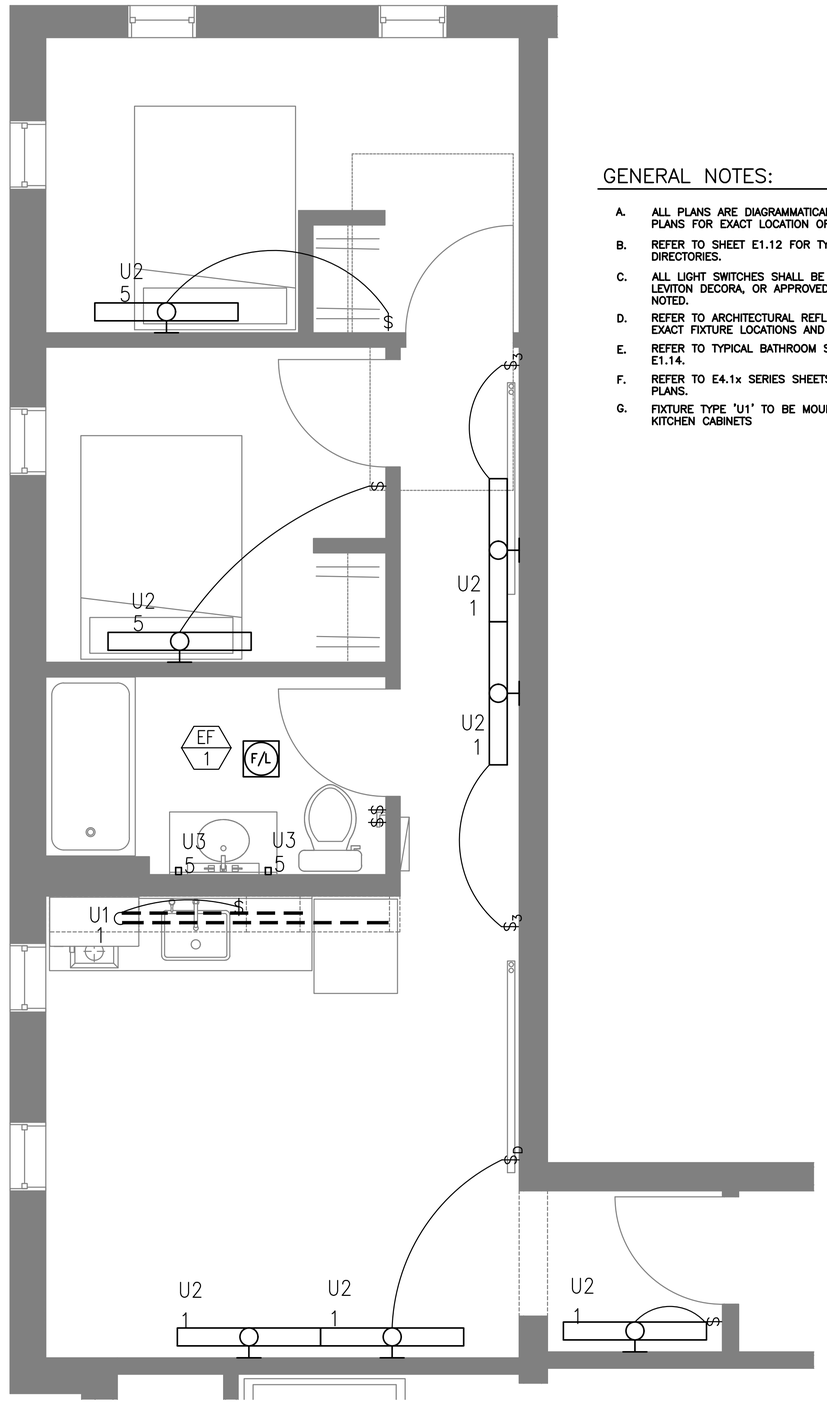


1-BRM UNIT TYPE B
1 / E4.01 TYPICAL – LIGHTING PLAN
SCALE: 1/2" = 1'-0"



1-BRM UNIT TYPE B
2 / E4.01 LEVEL 1 – LIGHTING PLAN
SCALE: 1/2" = 1'-0"



2-BRM UNIT TYPE B
3 / E4.01 TYPICAL – LIGHTING PLAN
SCALE: 1/2" = 1'-0"

GENERAL NOTES:

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

B. REFER TO SHEET E1.12 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 E1.14.

F. REFER TO E4.1x SERIES SHEETS FOR TYPICAL UNIT POWER PLANS.

G. FIXTURE TYPE 'U1' TO BE MOUNTED ON TOP OF AND UNDER KITCHEN CABINETS

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Project Owner:

SMART PDX PROPERTIES, LLC

Project Name:

MINNESOTA PLACES

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

PERMIT SUBMITTAL

Issued:

PERMIT SUBMITTAL	8.16.2021

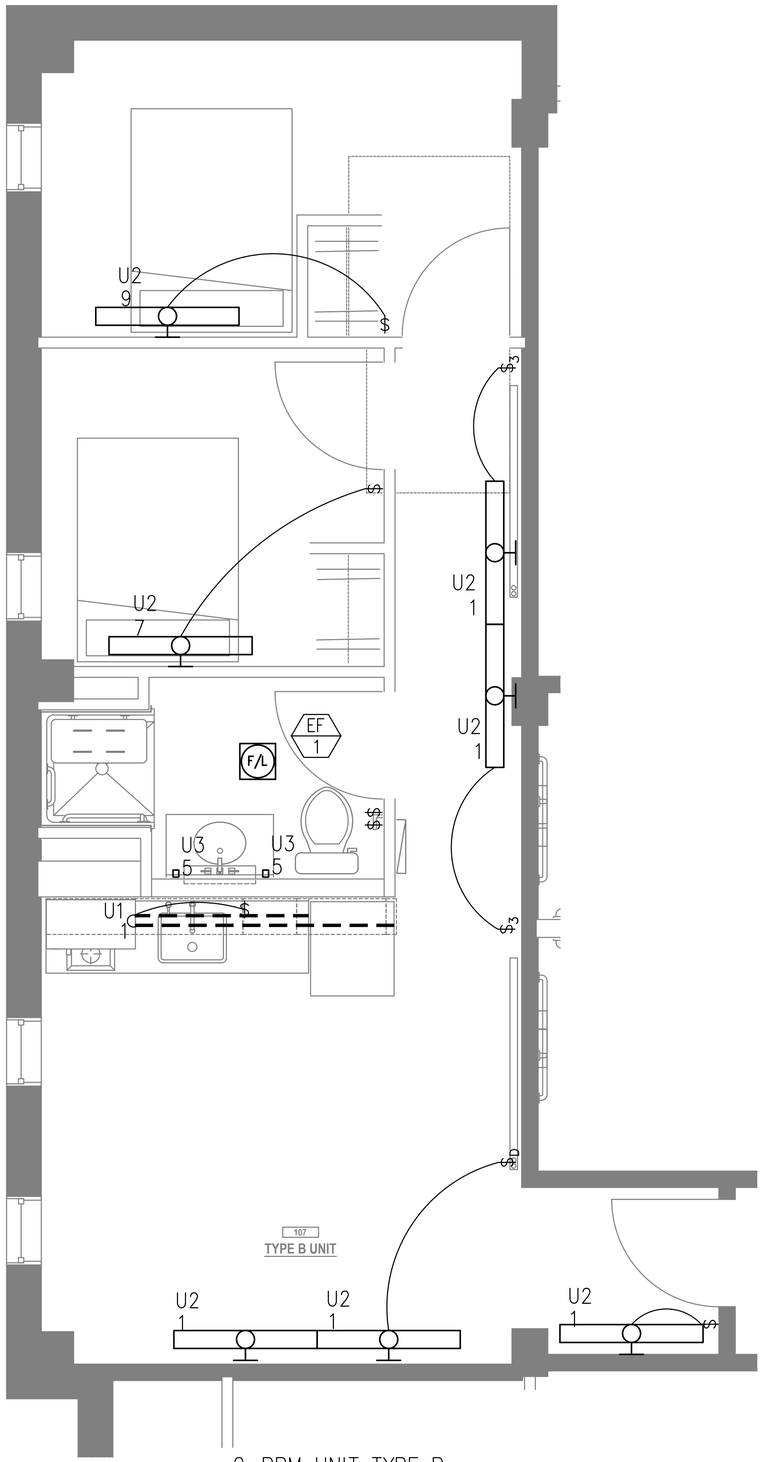
Job #: 2020

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

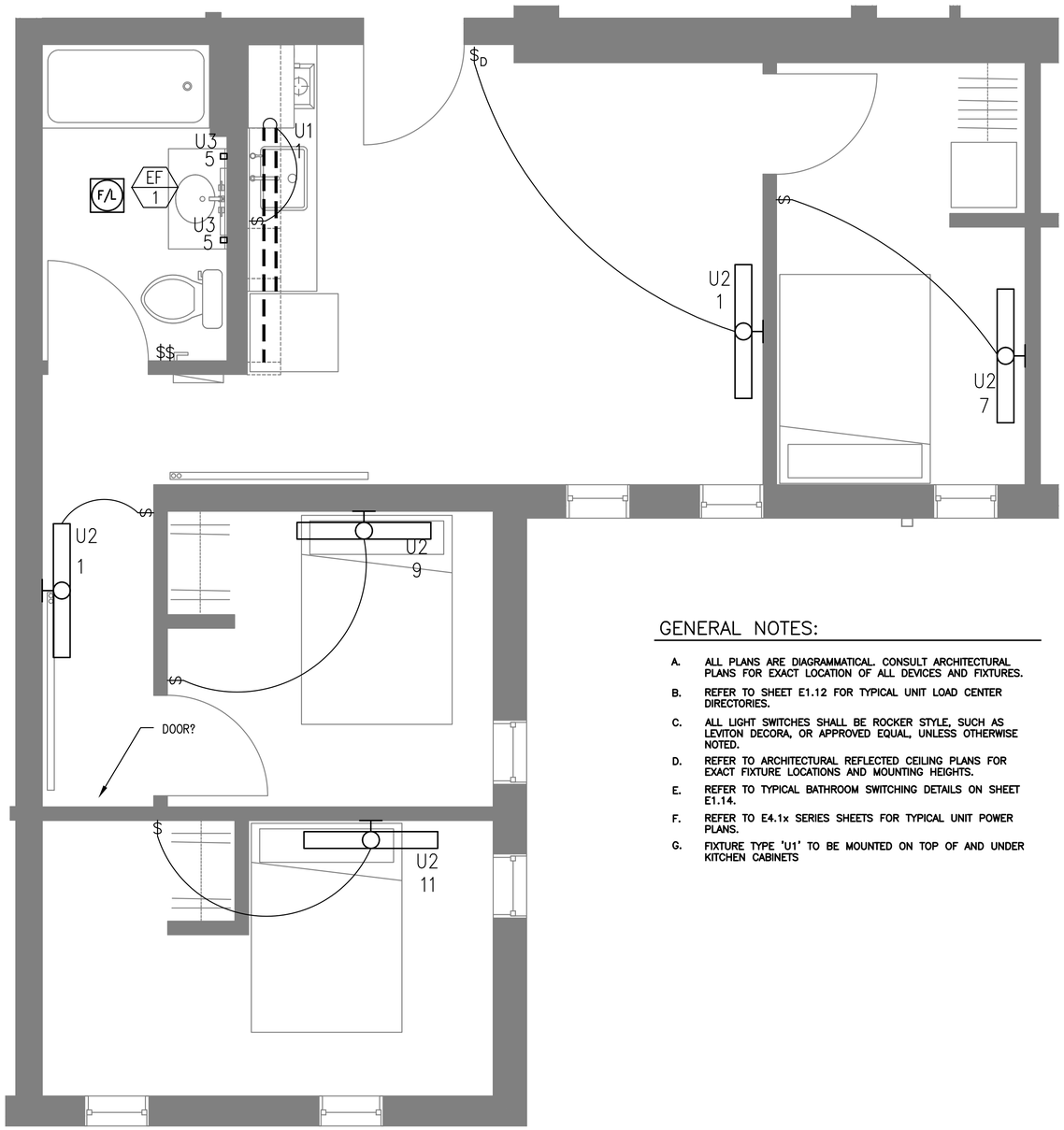
TYPICAL UNIT LIGHTING PLANS

Drawing Number

E4.01



2–BRM UNIT TYPE B
LEVEL 1 – LIGHTING PLAN
1 / E4.02
SCALE: 1/2" = 1'–0"



3–BRM UNIT TYPE B
TYPICAL – LIGHTING PLAN
2 / E4.02
SCALE: 1/2" = 1'–0"

GENERAL NOTES:

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

B. REFER TO SHEET E1.12 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

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E. REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.14.

F. REFER TO E4.1x SERIES SHEETS FOR TYPICAL UNIT POWER PLANS.

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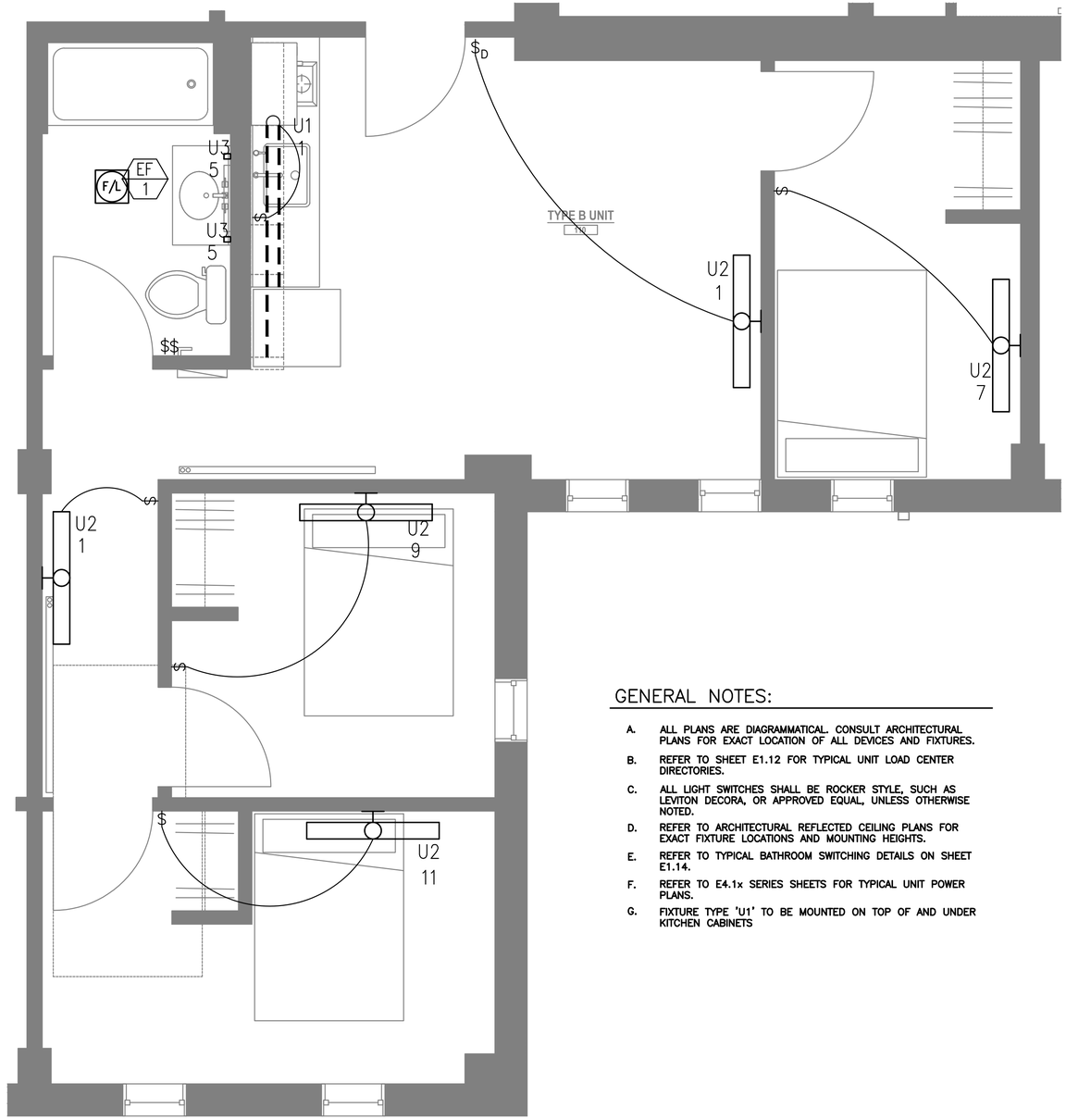
ORIGINAL SHEET SIZE: 24" x 36"
HALF SIZE: 12" x 18"

TYPICAL UNIT LIGHTING PLANS

Drawing Number

E4.02



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.

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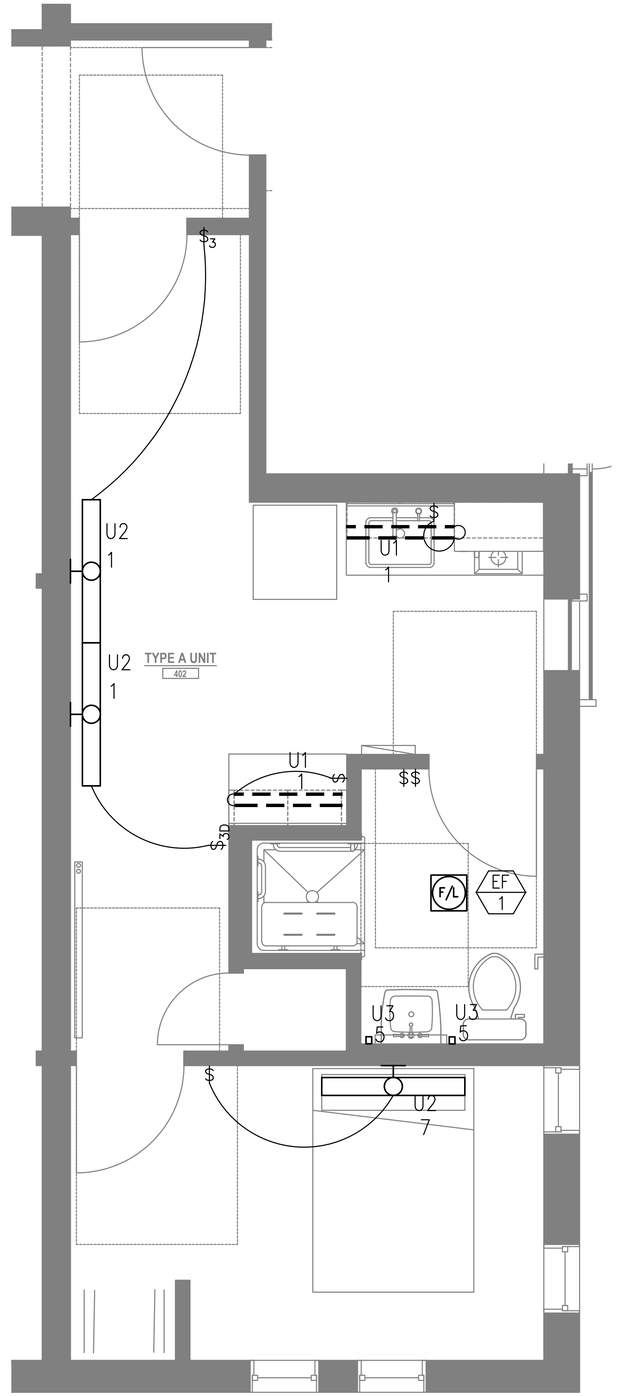
E. REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.14.

F. REFER TO E4.1x SERIES SHEETS FOR TYPICAL UNIT POWER PLANS.

G. FIXTURE TYPE 'U1' TO BE MOUNTED ON TOP OF AND UNDER KITCHEN CABINETS

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



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

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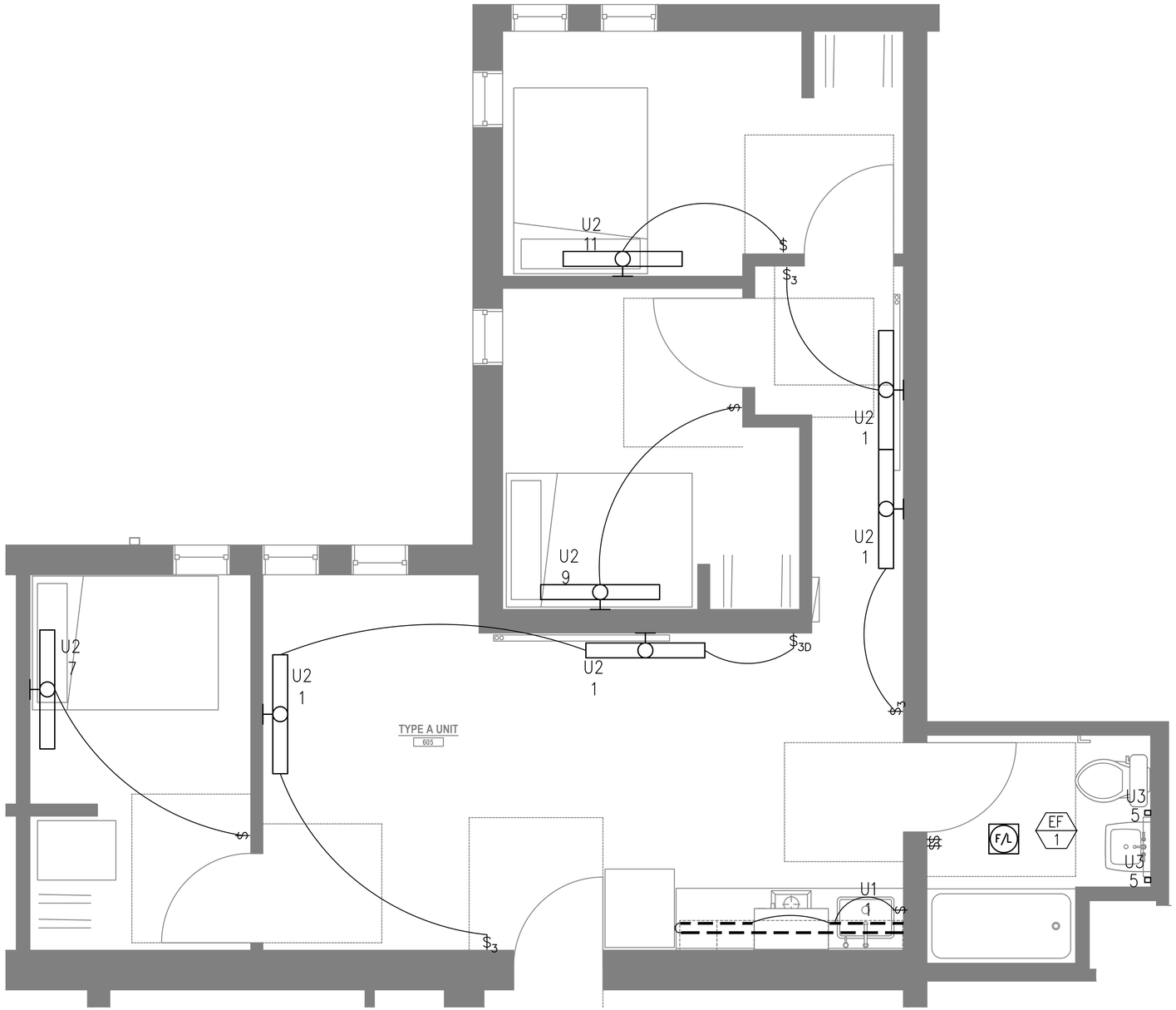
Job #: 2020
ORIGINAL SHEET SIZE: 24" x 36"
HALF SIZE: 12" x 18"

TYPICAL UNIT LIGHTING PLANS

Drawing Number
E4.03



3-BRM UNIT TYPE A
LEVEL 6 – LIGHTING PLAN
1 / E4.04
SCALE: 1/2" = 1'-0"

GENERAL NOTES:

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

B. REFER TO SHEET E1.12 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 E1.14.

F. REFER TO E4.1x SERIES SHEETS FOR TYPICAL UNIT POWER PLANS.

G. FIXTURE TYPE 'U1' TO BE MOUNTED ON TOP OF AND UNDER KITCHEN CABINETS

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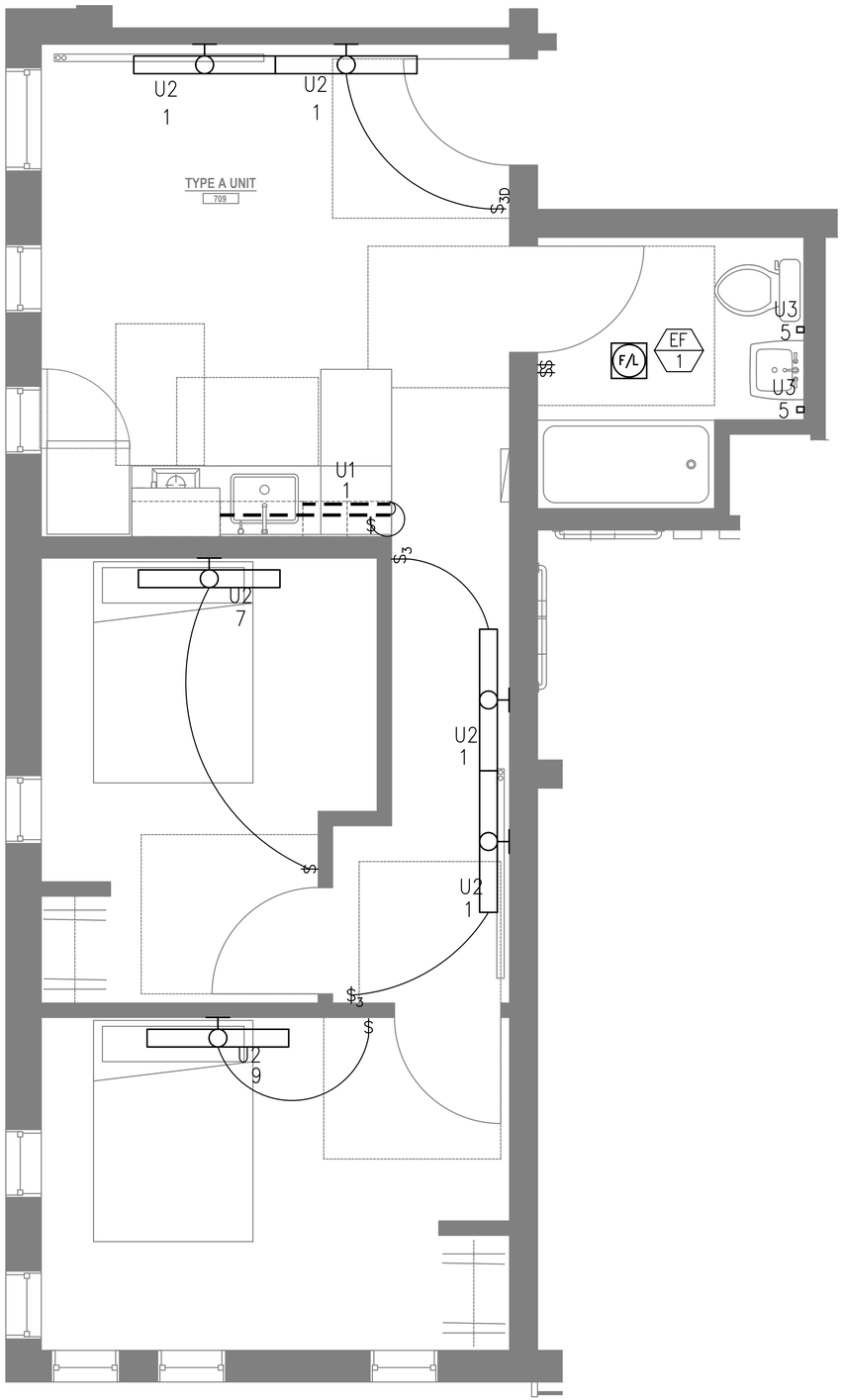
ORIGINAL SHEET SIZE: 24" x 36"
HALF SIZE: 12" x 18"

TYPICAL UNIT LIGHTING PLANS

Drawing Number

E4.04



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

GENERAL NOTES:

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

B. REFER TO SHEET E1.12 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

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

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E. REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.14.

F. REFER TO E4.1x SERIES SHEETS FOR TYPICAL UNIT POWER PLANS.

G. FIXTURE TYPE 'U1' TO BE MOUNTED ON TOP OF AND UNDER KITCHEN CABINETS

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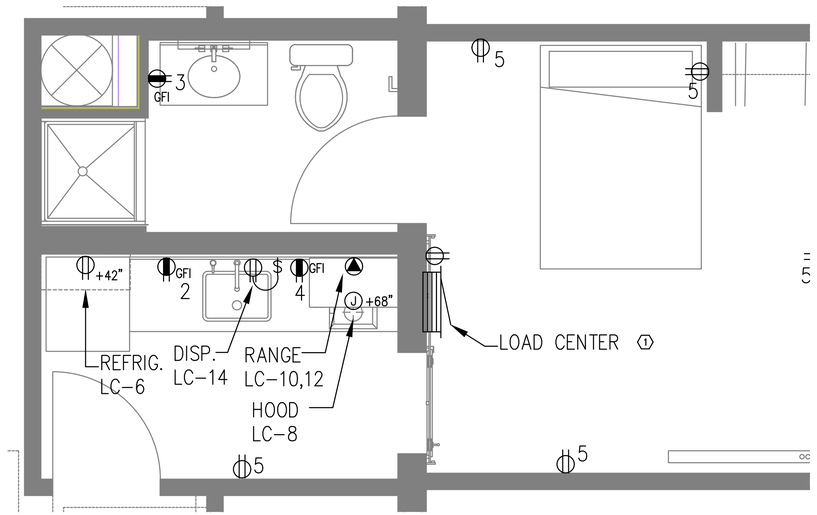
TYPICAL UNIT LIGHTING PLANS

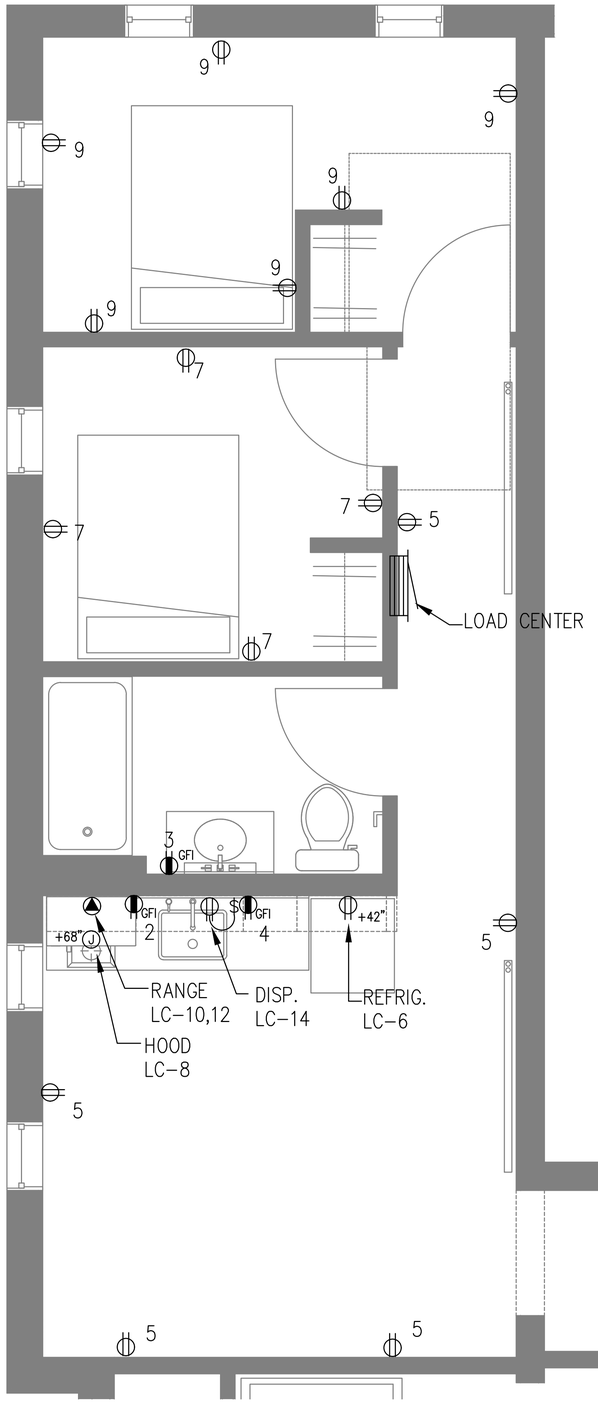
Drawing Number

E4.05



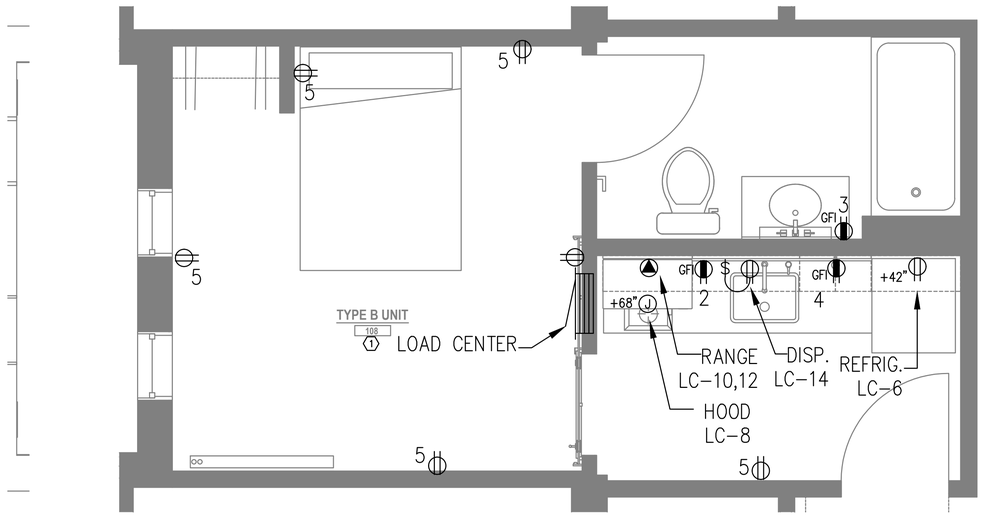
1 E4.11 — 1-BRM UNIT TYPE B TYPICAL – POWER PLAN

SCALE: 1/2" = 1'-0"



3 E4.11 — 2-BRM UNIT TYPE B TYPICAL – POWER PLAN

SCALE: 1/2" = 1'-0"



2 E4.11 — 1-BRM UNIT TYPE B LEVEL 1 – POWER PLAN

SCALE: 1/2" = 1'-0"

GENERAL NOTES:

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

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

C. 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. AS REQUIRED BY CODE. DEVICES LOCATED BELOW WINDOW SILLS MAY BE ROTATED 90° IF NECESSARY. CONTRACTOR TO ADVISE ARCHITECT IMMEDIATELY IF CONFLICT BETWEEN DEVICES AND WINDOW SILLS IS APPARENT.

D. REFER TO SHEET E1.xx FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

E. PROVIDE ELECTRICAL ROUGH IN FOR LOW VOLTAGE DEVICES. REFER TO 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION. COORDINATE INSTALLATION WITH LOW VOLTAGE CONTRACTOR/INSTALLER.

⬡ KEYED NOTES:

1. VERIFY THAT THERE IS ENOUGH CLEARANCE BEHIND THE "BARN DOOR" FOR THE PANEL & DEVICE(S).

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PERMIT SET

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PERMIT SET	7.29.2021

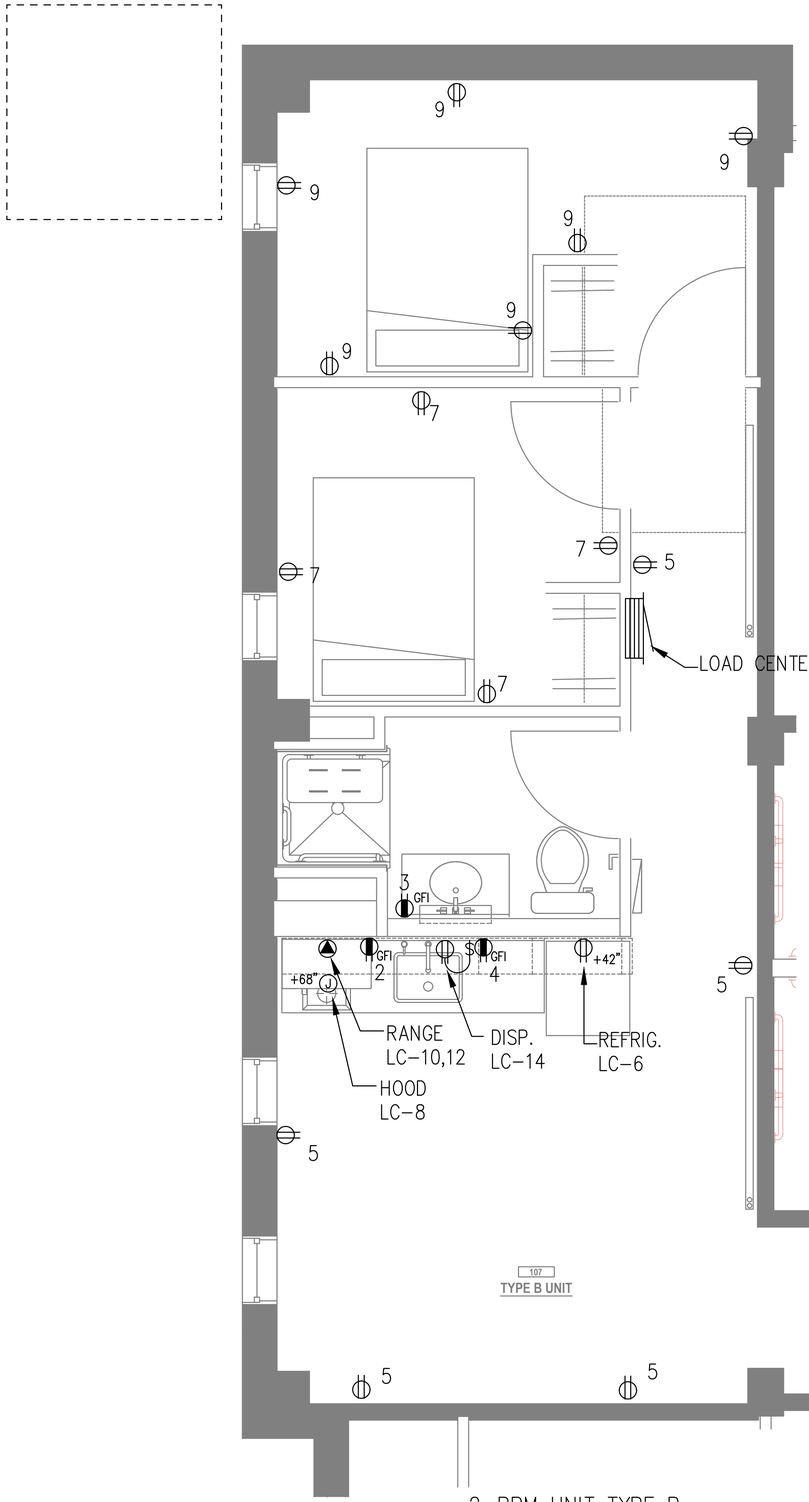
Job #: 2020

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

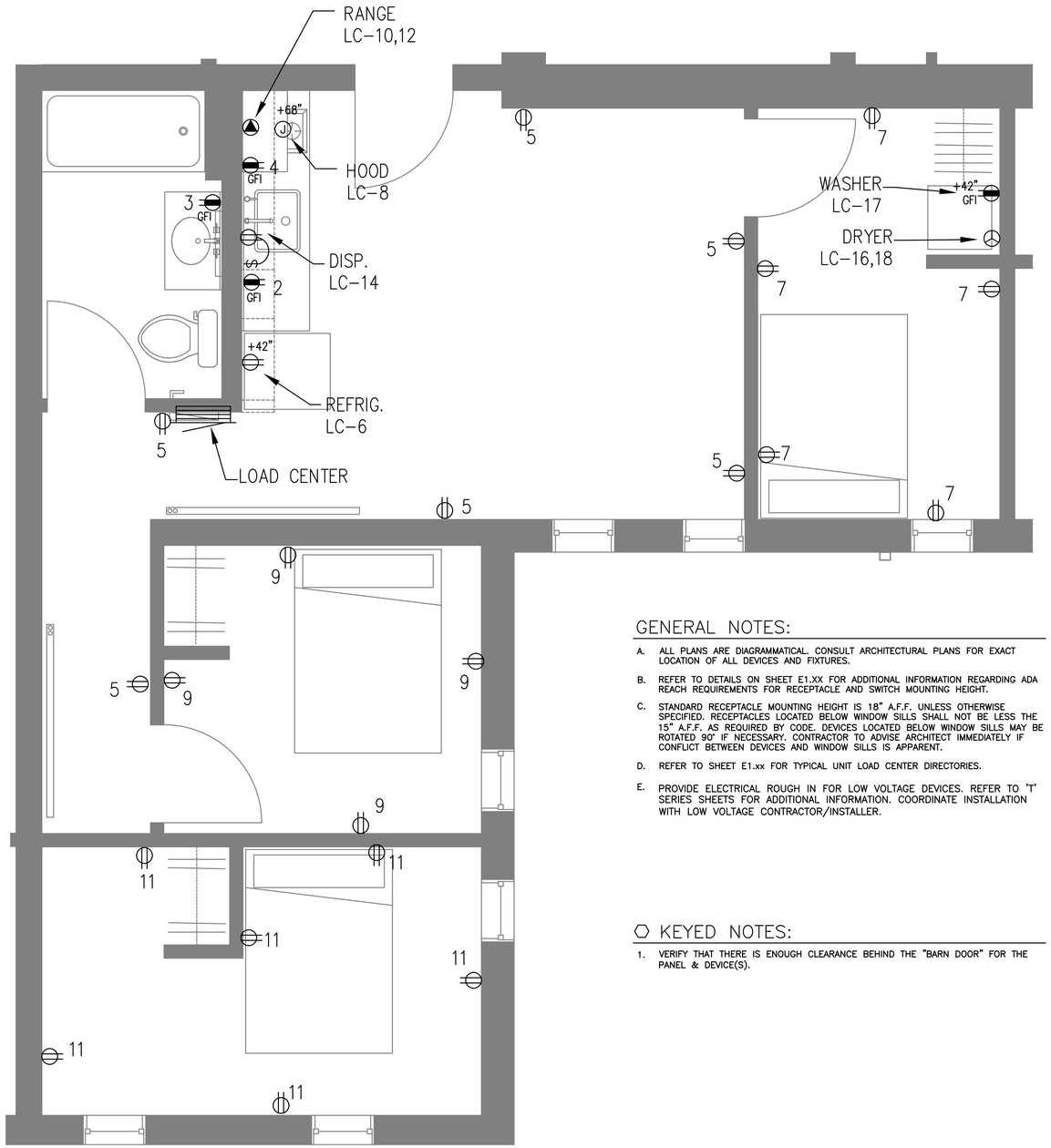
TYPICAL UNIT POWER PLANS

Drawing Number

E4.11



2-BRM UNIT TYPE B
1 / E4.12 LEVEL 1 – POWER PLAN
SCALE: 1/2" = 1'-0"



3-BRM UNIT TYPE B
2 / E4.12 TYPICAL – POWER PLAN
SCALE: 1/2" = 1'-0"

GENERAL NOTES:

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D. REFER TO SHEET E1.xx FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

E. PROVIDE ELECTRICAL ROUGH IN FOR LOW VOLTAGE DEVICES. REFER TO 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION. COORDINATE INSTALLATION WITH LOW VOLTAGE CONTRACTOR/INSTALLER.

⬡ KEYED NOTES:

1. VERIFY THAT THERE IS ENOUGH CLEARANCE BEHIND THE "BARN DOOR" FOR THE PANEL & DEVICE(S).

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PERMIT SET

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ORIGINAL SHEET SIZE: 24" x 36"
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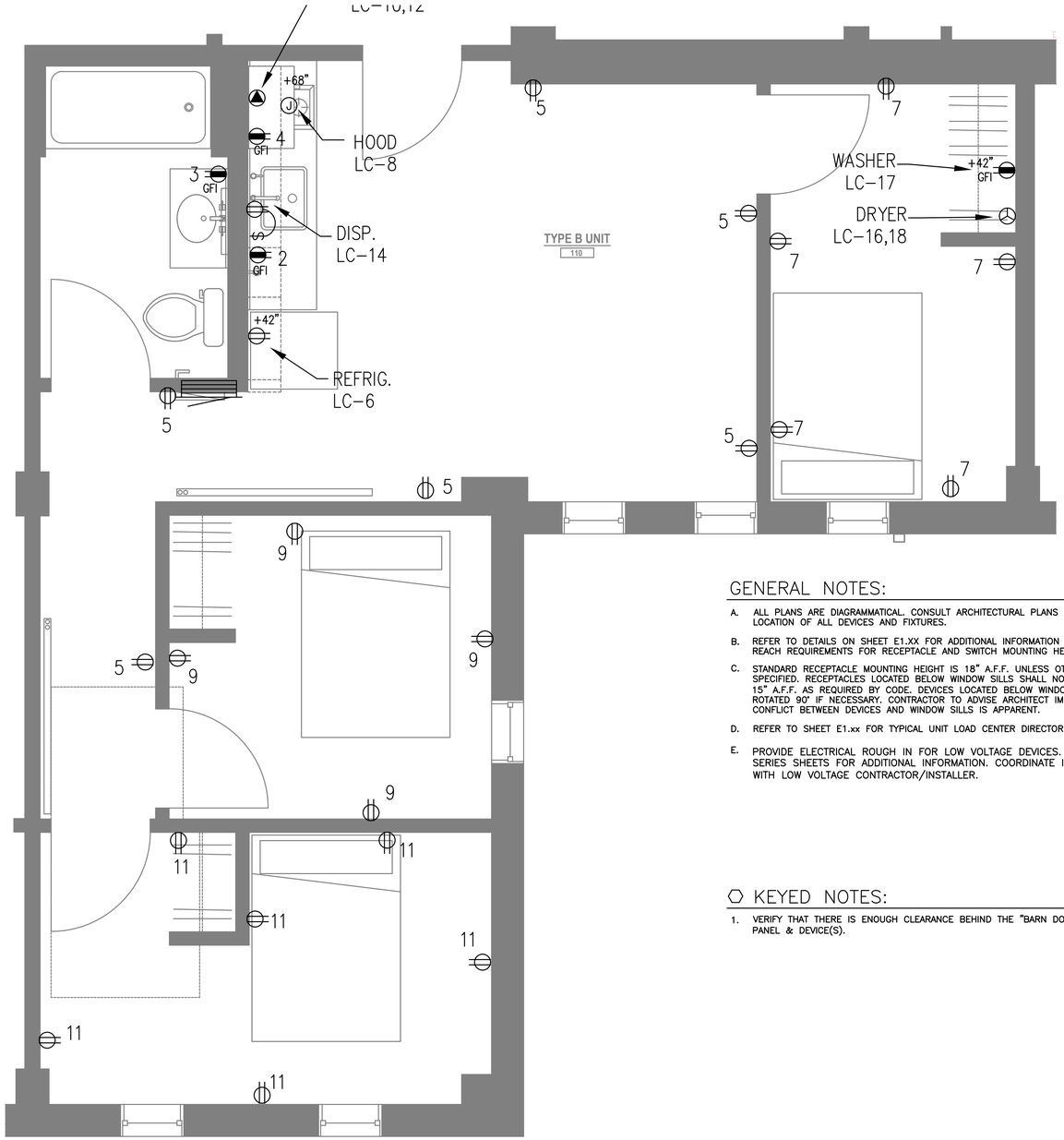
TYPICAL UNIT POWER PLANS

Drawing Number
E4.12



1 E4.13 — 3-BRM UNIT TYPE B
LEVEL 1 – POWER PLAN
SCALE: 1/2" = 1'-0"

GENERAL NOTES:

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

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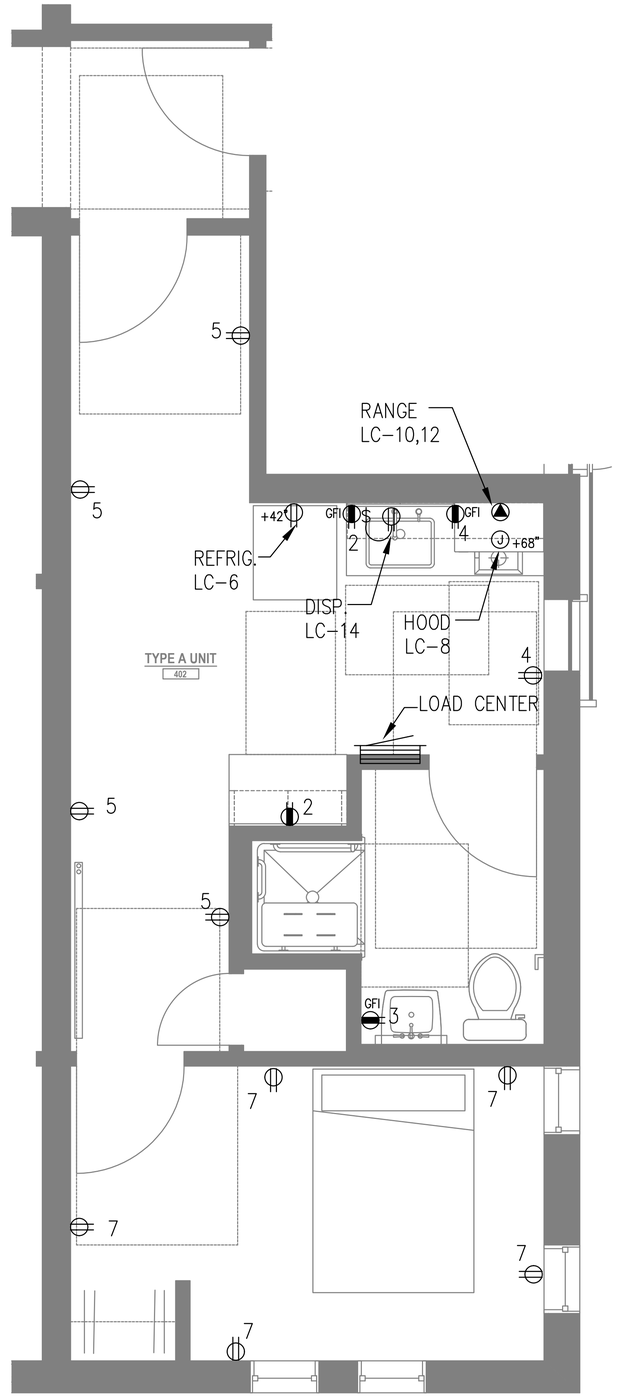
KEYED NOTES:

1. VERIFY THAT THERE IS ENOUGH CLEARANCE BEHIND THE "BARN DOOR" FOR THE PANEL & DEVICE(S).



2 E4.13 — 1-BRM UNIT TYPE A
LEVEL 4 – POWER PLAN
SCALE: 1/2" = 1'-0"

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PERMIT SET

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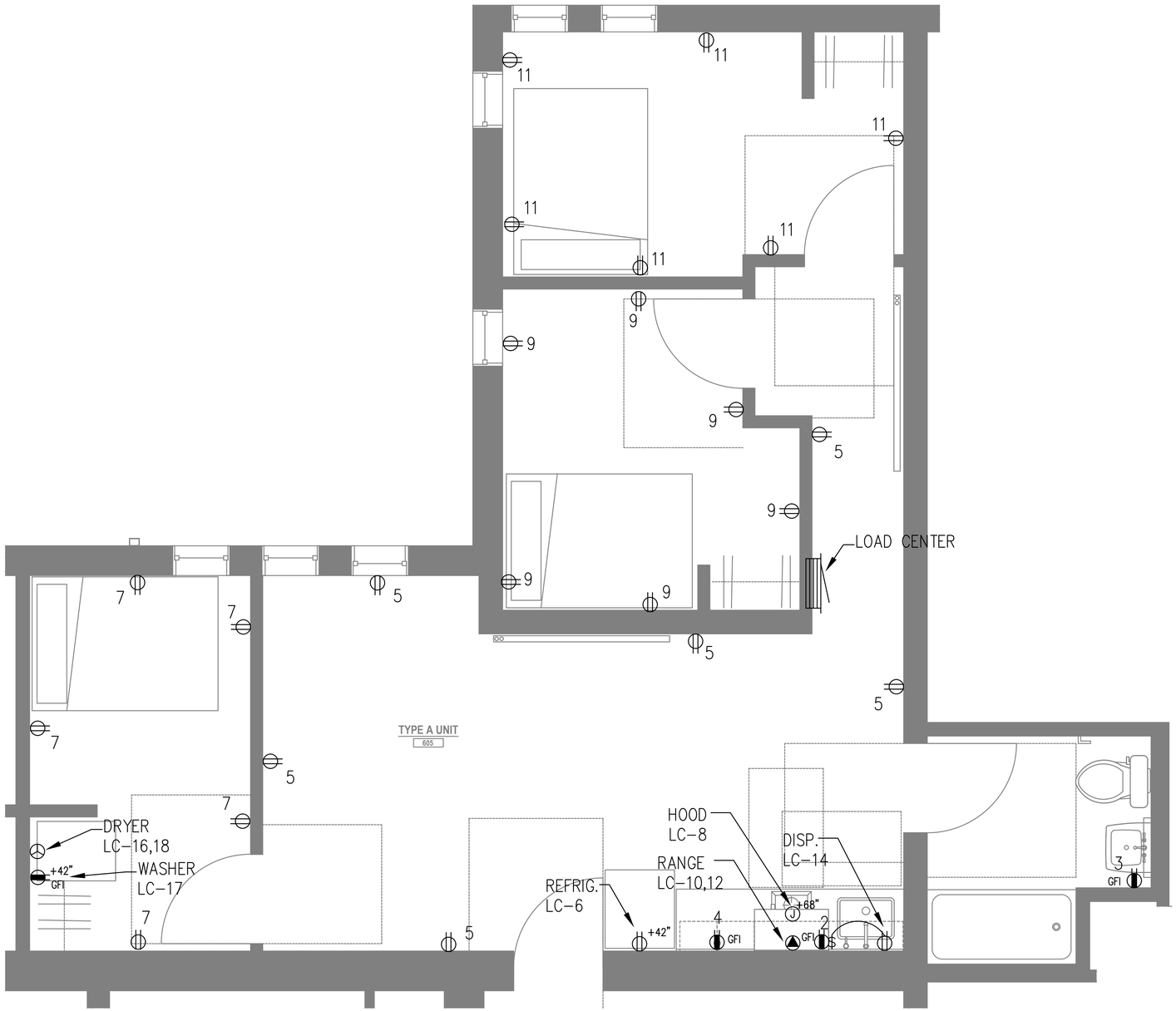
Job #: 2020

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

TYPICAL UNIT POWER PLANS

Drawing Number
E4.13



1 E4.14 — 3-BRM UNIT TYPE A
LEVEL 6 – POWER PLAN
SCALE: 1/2" = 1'-0"

GENERAL NOTES:

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

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

C. 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. AS REQUIRED BY CODE. DEVICES LOCATED BELOW WINDOW SILLS MAY BE ROTATED 90° IF NECESSARY. CONTRACTOR TO ADVISE ARCHITECT IMMEDIATELY IF CONFLICT BETWEEN DEVICES AND WINDOW SILLS IS APPARENT.

D. REFER TO SHEET E1.xx FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

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⬡ KEYED NOTES:

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TYPICAL UNIT POWER PLANS

Drawing Number

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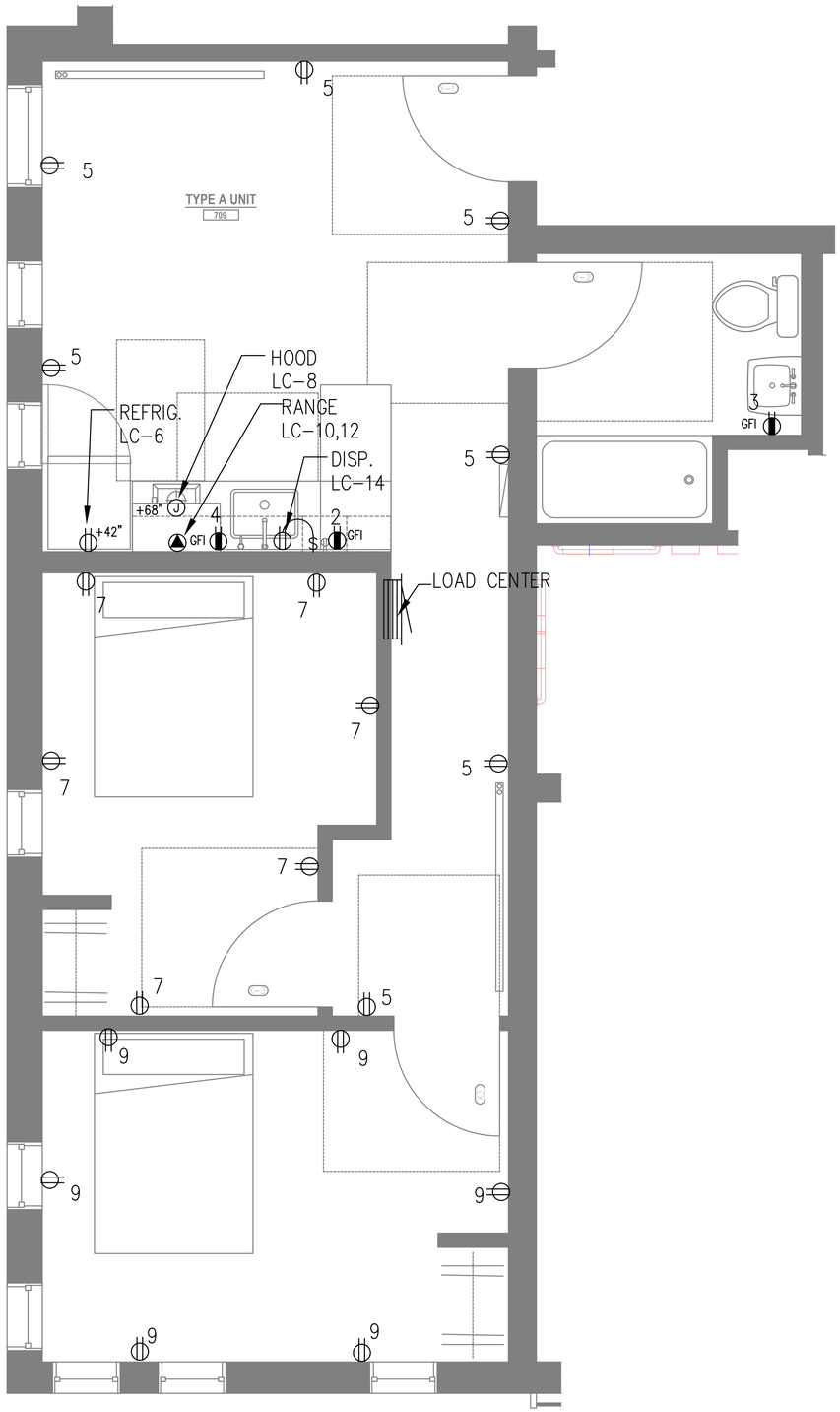

1 E4.15

2-BRM UNIT TYPE A
LEVEL 7 - POWER PLAN

SCALE: 1/2" = 1'-0"

GENERAL NOTES:

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C. 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. AS REQUIRED BY CODE. DEVICES LOCATED BELOW WINDOW SILLS MAY BE ROTATED 90° IF NECESSARY. CONTRACTOR TO ADVISE ARCHITECT IMMEDIATELY IF CONFLICT BETWEEN DEVICES AND WINDOW SILLS IS APPARENT.

D. REFER TO SHEET E1.xx FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

E. PROVIDE ELECTRICAL ROUGH IN FOR LOW VOLTAGE DEVICES. REFER TO 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION. COORDINATE INSTALLATION WITH LOW VOLTAGE CONTRACTOR/INSTALLER.

⬡ KEYED NOTES:

1. VERIFY THAT THERE IS ENOUGH CLEARANCE BEHIND THE "BARN DOOR" FOR THE PANEL & DEVICE(S).

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

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CONTACT: DENISE TAYLOR

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"

TYPICAL UNIT POWER PLANS

Drawing Number

E4.15