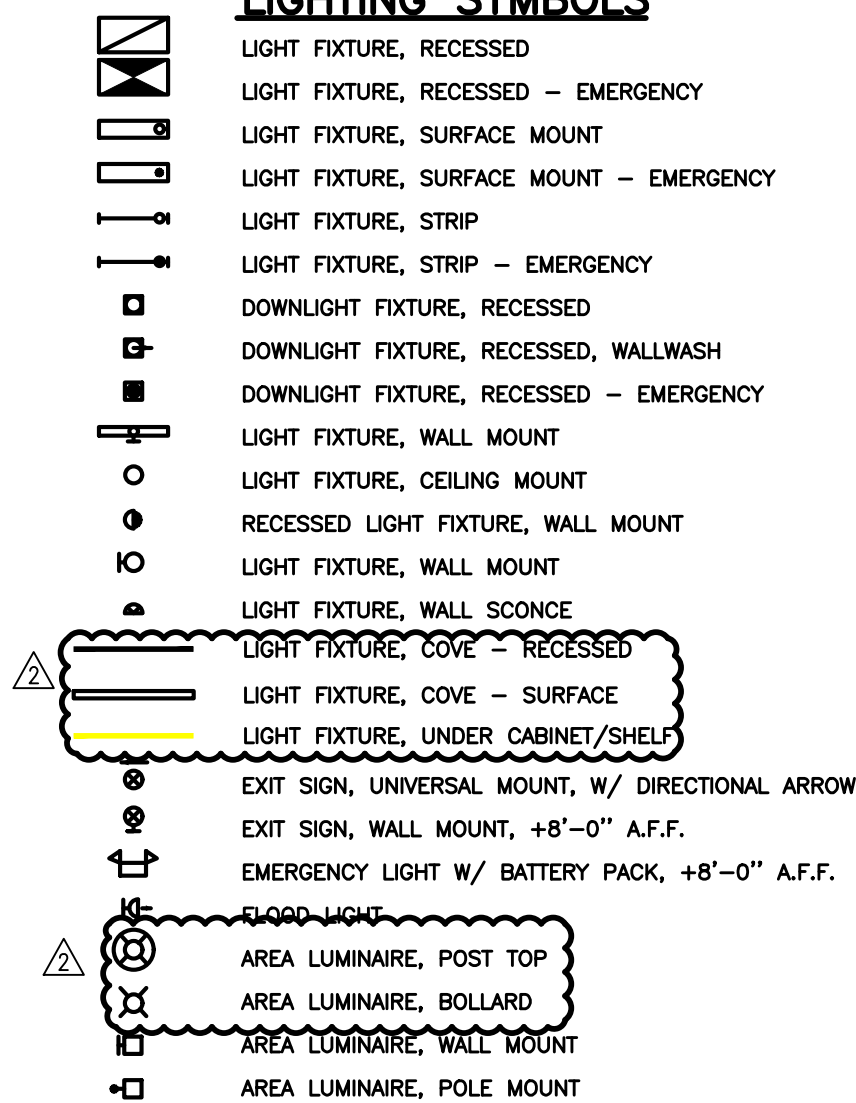
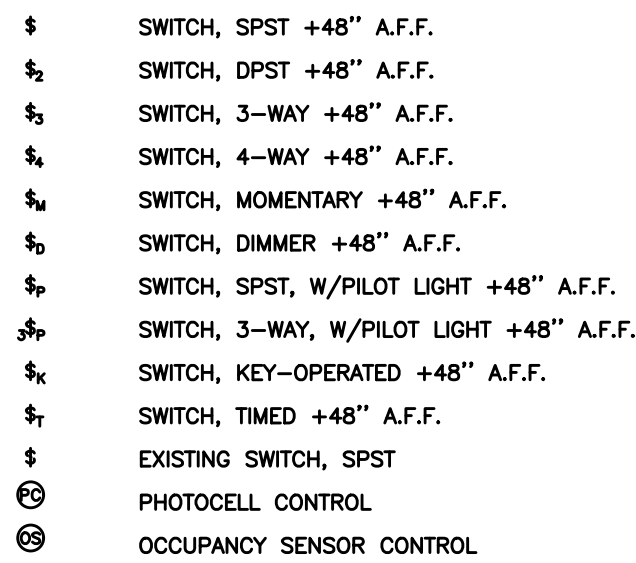


ELECTRICAL SYMBOL LIST

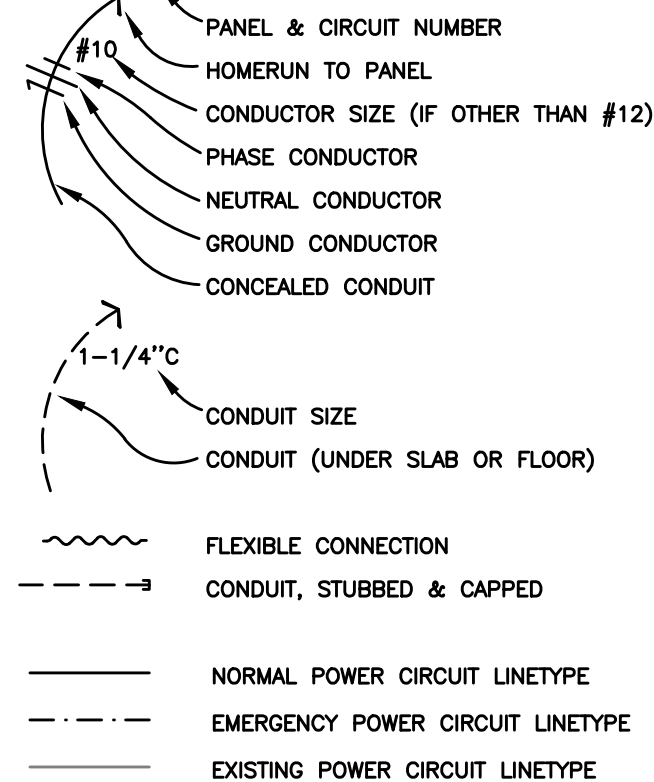
LIGHTING SYMBOLS



SWITCH SYMBOLS

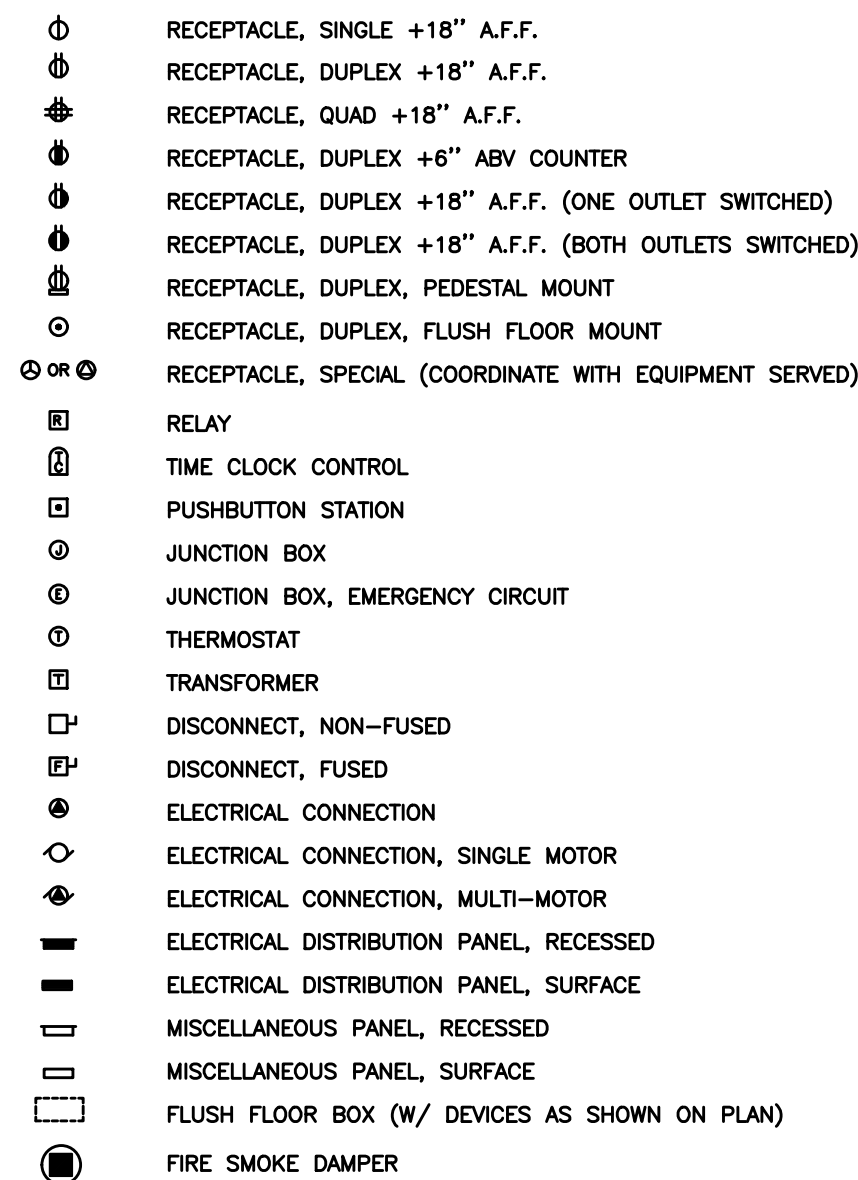


WIRING SYMBOLS

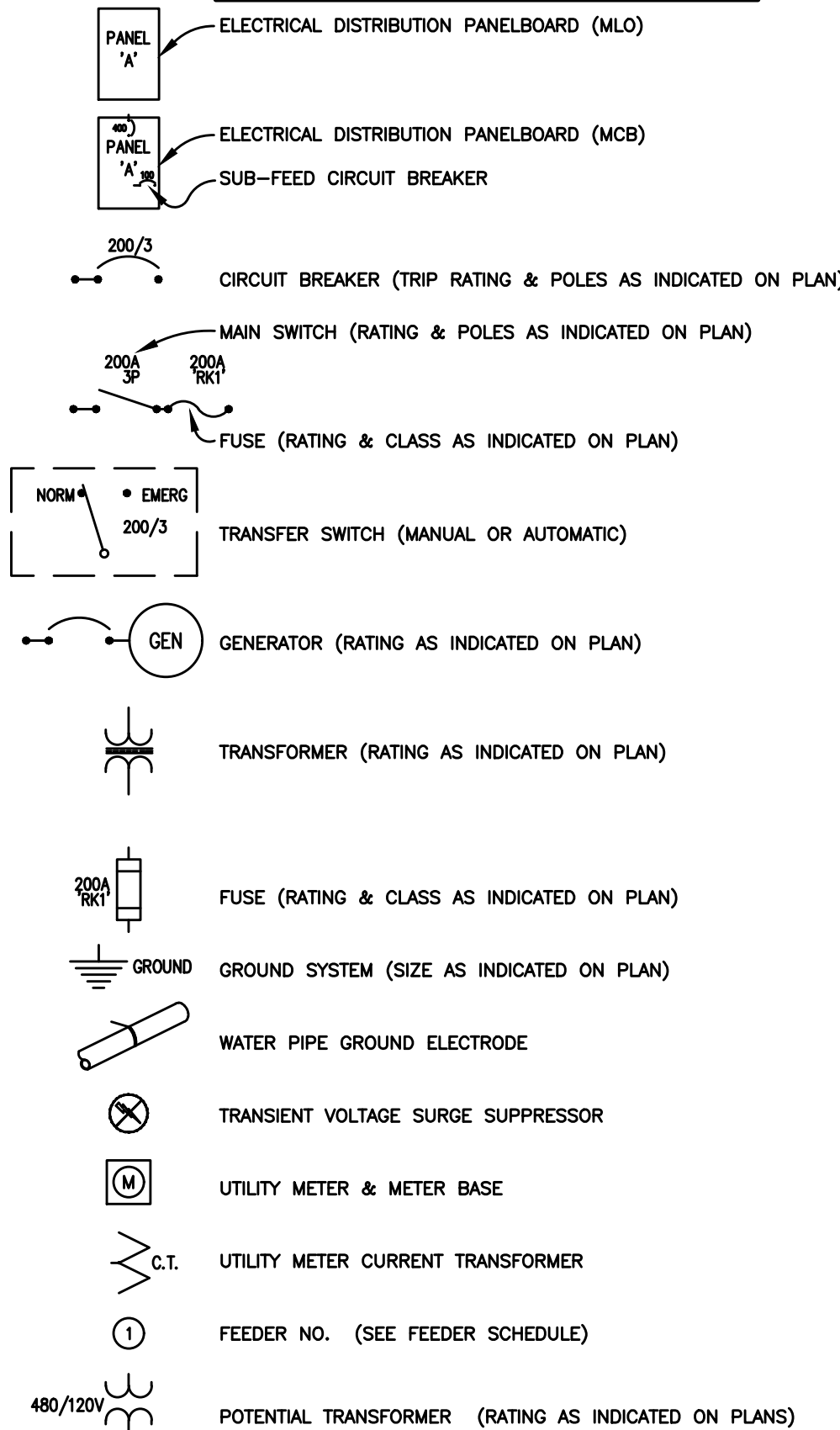


FIRE RATED INSTALLATION NOTE:
ELECTRICAL ITEMS (LIGHT FIXTURES, BOXES, ETC.) WHICH ARE RECESSED INTO FIRE-RATED CEILINGS OR WALLS, SHALL BE "ALCOVED" IN GYPSUM BOARD ENCLOSURES PER ARCHITECTURAL DETAILS, OR THE DEVICES SHALL BE "UL" LISTED WITH FIRE-RATING EQUAL TO OR GREATER THAN THE FIRE-RATING OF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

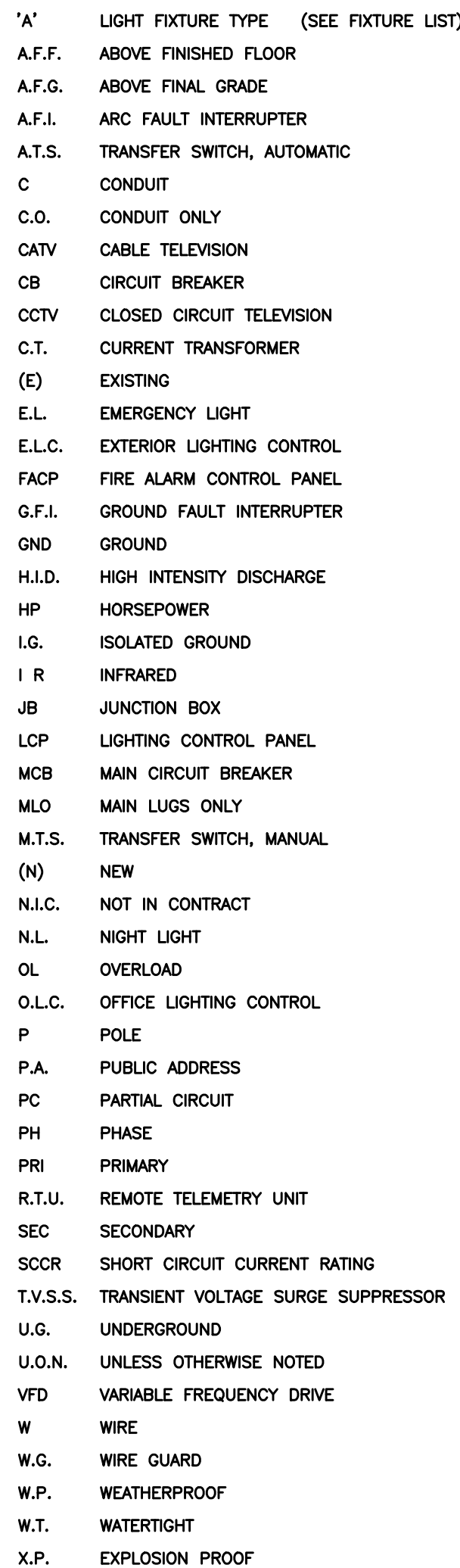
POWER SYMBOLS



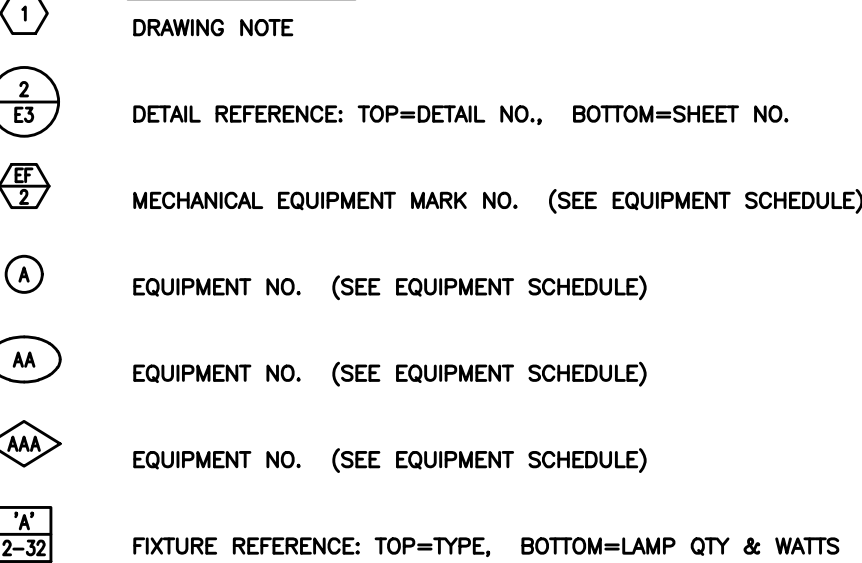
ONE-LINE DIAGRAM SYMBOLS



ABBREVIATIONS



NOTATIONS



GENERAL CONSTRUCTION NOTES:

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

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

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

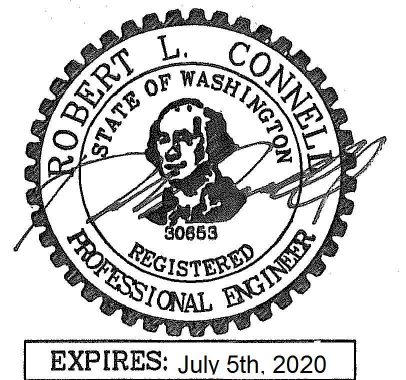
THE ELECTRICAL CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTATION AND COORDINATE WITH ALL OTHER TRADES THROUGHOUT THE COURSE OF THE PROJECT.

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

- SYMBOLS & ABBREVIATIONS MAY OR MAY NOT APPLY TO PROJECT
- REFER TO LOW VOLTAGE DRAWINGS FOR ASSOCIATED SYMBOLS

GENERAL NOTES:

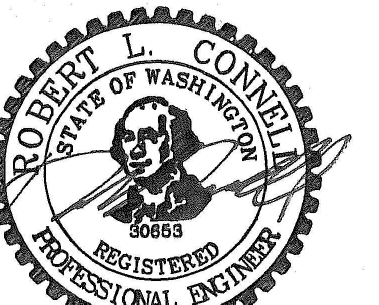
- ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE & NATIONAL CODES.
- CONTRACTOR SHALL REVIEW THE DIVISION 26 SPECIFICATIONS AND THE ENTIRE DRAWING PACKAGE FOR THIS PROJECT PRIOR TO THE START OF ANY WORK.
- THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH ALL OTHER TRADES AND PROVIDE THE APPROPRIATE POWER CONNECTION(S) AND COORDINATE EXACT LOCATIONS PRIOR TO ROUGH IN.
- THE ELECTRICAL CONTRACTOR SHALL IMMEDIATELY ADVISE THE ARCHITECT OF ANY DISCREPANCIES DISCOVERED WITHIN THE DOCUMENTS.
- ALL PRODUCT SUBMITTALS AND SUBSTITUTIONS SHALL BE PROVIDED TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO PLACING ANY ORDERS.
- THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS.
- REFER TO INTERIOR DECORATOR AND/OR ARCHITECTURAL DRAWINGS FOR EXACT LOCATION(S) AND ELEVATIONS FOR FIXTURES & DEVICES.
- ELECTRICAL PANELS LOCATED IN PUBLIC OR UNSECURED SPACES SHALL BE PROVIDED WITH A LOCKABLE DOOR PANEL.
- SERVICE ENTRANCE AND METERING EQUIPMENT SHOWN TO APPROXIMATE SCALE, BASED ON INDUSTRY STANDARD PRODUCTS. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT WILL FIT THE SPACE AND MAINTAIN REQUIRED WORKING CLEARANCES.
- COORDINATE WITH LOCAL UTILITY PROVIDER FOR EXACT SERVICE CONDUIT AND CONDUCTORS REQUIREMENTS.
- ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH THE UTILITY PROVIDER'S ELECTRICAL SERVICE REQUIREMENTS.
- THERE SHALL BE NO SURFACE MOUNTED DEVICES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.
- ELECTRICAL CONTRACTOR SHALL CONSULT ARCHITECTURAL AND INTERIOR DECORATOR'S PLAN DOCUMENTS SUCH AS INTERIOR ELEVATIONS, REFLECTED CEILING PLANS, ETC., FOR FIXTURE AND DEVICE DIMENSIONS NOT OTHERWISE NOTED ON THE ELECTRICAL PLANS.



IN THE EVENT CONFLICTS ARE DISCOVERED BETWEEN THE ORIGINAL SIGNED AND SEALED DOCUMENTS PREPARED BY THE ARCHITECTS AND/OR THEIR CONSULTANTS, AND ANY COPY OF THE DOCUMENTS TRANSMITTED BY MAIL, FAX, ELECTRONICALLY OR OTHERWISE, THE ORIGINAL SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 2017-053
DATE: 11/06/2019

- REVISIONS
- PLAN REVIEW 01.24.2020
 - PLAN REVIEW 03.13.2020
 - PLAN REVIEW 04.24.2020
 - PLAN REVIEW 08.10.2020
 - PLAN REVIEW 09.17.2020



EXPIRES: July 5th, 2020

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AEGIS
MIXED-USE DEVELOPMENT
312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

SHEET:

E1.01

M
E
I
A
Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0677
INC. WWW.MPIA-ENG.COM
CONTACT: DENISE TAYLOR

GENERAL NOTES:

- A. ALL WORK 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. ELECTRICAL SERVICE ENTRANCE EQUIPMENT DESIGN IS BASED ON SIEMENS PRODUCTS. ACTUAL PRODUCTS INSTALLED MAY DIFFER IN SIZE AND CONFIGURATION AND SHALL BE DOCUMENTED IN FINAL PROJECT DOCUMENTS.
- D. COORDINATE WITH LOCAL UTILITY PROVIDER FOR EXACT SERVICE CONDUIT AND CONDUCTORS REQUIREMENTS.
- E. ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH CLARK PUBLIC UTILITIES ELECTRICAL SERVICE REQUIREMENTS.
- F. U.G. PRIMARY FEEDER SHALL HAVE A MINIMUM 48 INCH BURY.
- G. U.G. SECONDARY FEEDER SHALL HAVE A MINIMUM 36 INCH BURY.
- H. REFER TO SHEETS E1.11 & E1.14 FOR ONE-LINE DIAGRAM, LOAD SUMMARY INFORMATION AND TYPICAL FEEDER SCHEDULE.
- I. SECONDARY CONDUIT SWEEPS SHALL BE MINIMUM 60 INCH RADIUS WITH A MINIMUM OF 7'-0" STRAIGHT CONDUIT RUN BETWEEN SWEEPS.
- J. CONTRACTOR SHALL REVIEW CLARK PUBLIC UTILITIES ELECTRICAL SERVICE REQUIREMENTS PRIOR TO THE START OF ANY WORK.
- K. LOCATION AND INSTALLATION OF THE PRIMARY AND SECONDARY CONDUITS, TRANSFORMER, ETC. SHALL BE PROVIDED PER CLARK PUBLIC UTILITIES ELECTRICAL SERVICE REQUIREMENTS.
- L. CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND SPECIFICATIONS IN DETAIL AND REFER TO THE DOCUMENTS THROUGHOUT THE CONSTRUCTION.

KEYED POWER NOTES:

- △ 1. ROUTE (3) 3/4" PVC CONDUIT W/PULL STRING FROM BUILDING 'B' ELECTRICAL ROOM #198 TO PARKING LOT LOCATION FOR FUTURE EV CHARGING STATION. STUB-UP FLUSH WITH FINISHED GRADE AND CAP AT BOTH ENDS. RESERVE (4) 40A, 208V, 1P CIRCUITS IN PANEL 'M1' FOR FUTURE ELECTRICAL CONNECTION.
2. ROUTE ONE 3/4" PVC CONDUIT W/PULL STRING FROM BUILDING 'A' ELECTRICAL ROOM #292 TO PARKING LOT LOCATION FOR FUTURE EV CHARGING STATION. STUB-UP FLUSH WITH FINISHED GRADE AND CAP AT BOTH ENDS. RESERVE ONE 40A, 208V, 1P CIRCUITS IN PANEL 'M1' FOR FUTURE ELECTRICAL CONNECTION.
3. PROVIDE (2) 3/4" PVC CONDUIT W/PULL STRING, ROUTED UNDERGROUND FROM MAINTENANCE ROOM #192A TO BUILDING EXTERIOR FOR FUTURE CCTV CONNECTIONS AND CAP AT BOTH ENDS.
- △ 4. PROVIDE (1) 3/4" PVC CONDUIT W/PULL STRING, FOR DATA CABLE TO EACH FUTURE EV CHARGING STATION, ROUTED UNDERGROUND FROM ELECTRICAL ROOM #193A OR #198B TO EACH LOCATION. STUB-UP FLUSH WITH FINISHED GRADE AND CAP AT BOTH ENDS.
- △ 5. PROVIDE (1) 3/4" PVC CONDUIT W/PULL STRING, ROUTED UNDERGROUND FROM RISER ROOM #196B TO BUILDING EXTERIOR FOR IRRIGATION AND CAP AT BOTH ENDS. VERIFY EXACT LOCATION WITH LANDSCAPING AND/OR CIVIL.
- △ 6. PROVIDE WEATHER PROOF J-BOX, FLUSH WITH GRADE, FOR FUTURE LIGHT INSTALLATION. REFER TO LANDSCAPING PLANS FOR ADDITIONAL INFORMATION.

CONTRACTOR TO LOCATE ALL
UNDERGROUND UTILITIES
BEFORE TRENCHING.

UTILITY REQUIREMENTS

1. CUSTOMER TO PROVIDE ALL TRENCHING AND BACKFILLING. TRENCH TO BE 36 INCHES DEEP AND 30 INCHES WIDE, MEASURED FROM FINAL GRADE.
2. ALL UTILITY CONDUCTORS TO BE INSTALLED IN GRAY SCHEDULE 40, ELECTRICAL GRADE, PVC CONDUIT WITH NYLON PULL STRINGS (MIN 500 LBS. TEST). CLARK PUBLIC UTILITIES TO DETERMINE THE SIZE AND NUMBER OF CONDUITS REQUIRED. ALL ELBOWS TO BE 36 INCH (MIN) RADIUS. ALL BENDS MAY BE FACTORY MADE. IF MORE THAN 270 DEGREES OF BENDS OR IF RUN IS LONGER THAN 150 FEET, BENDS MUST BE RIGID STEEL.
3. CONSULT WITH UTILITY REPRESENTATIVE 2 WEEKS BEFORE STARTING MAIN POWER TRENCHING FOR A PRE-CONSTRUCTION CONFERENCE. INCLUDED IN THIS CONFERENCE WILL BE EXCAVATOR, CPU, TELCO, CATV, AND GAS.
- △ 4. ELECTRICAL UTILITY PROVIDER:
CLARK PUBLIC UTILITIES
CONSTRUCTION SERVICES
360.992.8558

INCOMING ELECTRICAL SERVICE DIVISION OF RESPONSIBILITY					
	ELEC. CONTR.	UTILITY CO.		ELEC. CONTR.	UTILITY CO.
PRIMARY CONDUIT	[X]	☐	SECONDARY CONDUIT	[X]	☐
PRIMARY CONDUCTORS	[X]	☐	SECONDARY CONDUCTORS	[X]	☐
TRANSFORMER	[X]	☐	C/T ENCLOSURE	[X]	☐
TRANSFORMER PAD	[X]	☐	C/T's	☐	[X]
PRIMARY GROUNDING	[X]	☐	METER BASE	[X]	☐
BOLLARDS	[X]	☐	METER	☐	[X]
TRANSFORMER CONNECTIONS	[X]	☐	METER GROUNDING	[X]	☐
ELECTRIC ROOM DOOR	[X]	☐			
LOCK BOX (OBTAIN FROM POWER COMPANY)					

NOTES:

1. CONTACT AND COORDINATE ALL REQUIREMENTS AND RESPONSIBILITIES WITH SERVING UTILITY COMPANIES PRIOR TO SUBMITTING BID.
2. ALL SERVICE INSTALLATION WORK SHALL BE IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF THE SERVING UTILITIES.

POWER UTILITY CONTACT: CHARLIE BEATTY CLARK PUBLIC UTILITIES OFFICE: (360) 992-8721 CELL: (360) 253-0281 EMAIL: CBEATTY@CLARK PUD.COM	TELEPHONE UTILITY CONTACT: MANDY STUBBLEFIELD CENTURYLINK PHONE: MANDY.STUBBLE FIELD@CENTURY LINK.COM	CABLE TV UTILITY CONTACT: BOB MILLAR COMCAST PHONE: (360) 318-1128 EMAIL: BOB.MILLAR@CO MCAST.COM
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INTERFACE ENGINEERING, INC. HAS CONTACTED THE UTILITIES BUT HAS NOT RECEIVED IN WRITING THE FINAL REQUIREMENTS FROM CLARK PUBLIC UTILITIES, CENTURYLINK, COMCAST. THESE DRAWINGS INDICATE OUR BEST ESTIMATION OF THEIR REQUIREMENTS. PRIOR TO BID AND PRIOR TO ANY CONSTRUCTION CONTACT THE UTILITIES AND OBTAIN IN WRITING THEIR REQUIREMENTS.

E. 12TH ST.

BUILDING 'B'

SECONDARY SERVICE
FEEDERS TO BUILDING 'B'BLDG 'B'
ELECT ROOMSECONDARY SERVICE
FEEDERS TO BUILDING 'A'BLDG 'A'
ELECT ROOM

BUILDING 'A'

PRIMARY SERVICE
FEEDERS PER
ELECTRICAL
UTILITY PROVIDERPROPOSED UTILITY
COLLECTOR CABINET
LOCATIONPROPOSED UTILITY
TRANSFORMER
LOCATION

PROPERTY LINE

PROPERTY LINE

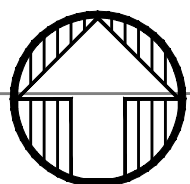
PROPERTY LINE

GENERATOR CONDUITS
SEE E1.11 & E1.14PROPOSED GENERATOR LOCATION
PROVIDE FENCE AND/OR
PROTECTIVE BOLLARDSCLARK PUBLIC
UTILITY'S FEEDERS

EXISTING BUILDING

EXISTING BUILDING
(DEMOLISHED UNDER
SEPARATE PERMIT)

E. EVERGREEN BLVD.



1

E1.01

SITE ELECTRICAL PLAN

SCALE: 1" = 30'-0"



EXPIRES: July 5th, 2020

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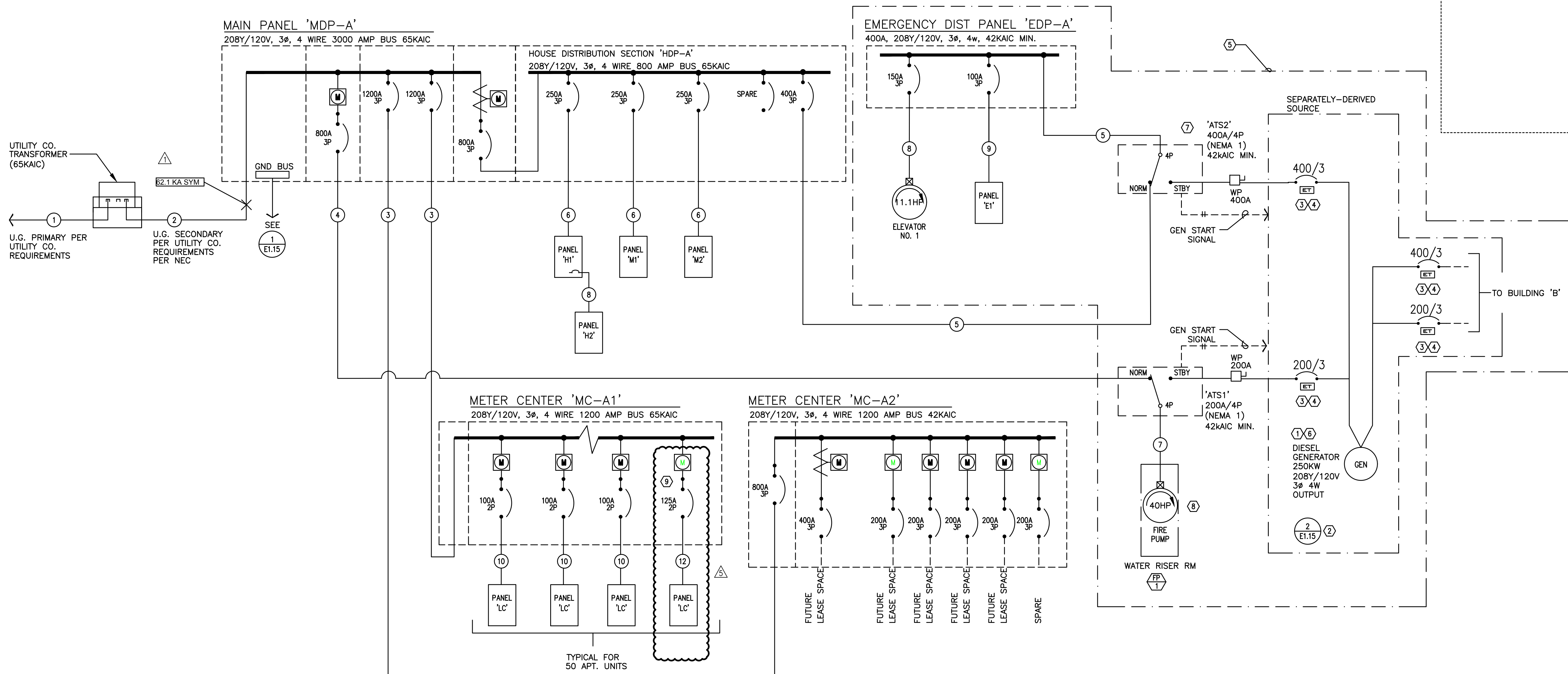
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AEGIS
MIXED-USE DEVELOPMENT
312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

SHEET:

E1.11



Aegis I – Bldg A Main distribution Center "MDP-A"							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
PANEL H1/H2	6,716	32,340	2,500		14,634		
PANEL M1/M2			25,200		2,500	85,563	
PANEL E1	6,250	1,500	0	0	10,000	2,352	
Elevator 1 (40hp)						43,200	43,200
Fire Pump						43,200	
Residential Meters (MC-A1)							
Retail Meters (MC-A2)							
SUBTOTAL	12,966	33,840	27,700	499,000	27,134	174,315	43,200
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	16,208	21,920	27,700	499,000	27,134	174,315	10,800

CONN LOAD:	818	KVA
VOLTS:	208	3ph
TOTAL CALC:	777	KVA
CALC AMPS:	2157	AMPS

Aegis I – Bldg A Emergency Distribution Panel "EDP-A"							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
Panel E1	5,750	1,500	0		9,000	2,352	
Elevator 1 (40hp)						43,200	43,200
SUBTOTAL	5,750	1,500	0	0	9,000	45,552	43,200
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	7,188	1,500	0	0	9,000	45,552	10,800

CONN LOAD:	105	KVA
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VOLTS:	208	3ph
TOTAL CALC:	74	KVA
CALC AMPS:	206	AMPS

Aegis I – Bldg "A" Commercial Meter Center "MC-A2"							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
Retail Space 'A' 1777sf @ 30w/sf				53,500			
Retail Space 'B' 845sf @ 15w/sf				13,000			
Retail Space 'C' 832sf @ 15w/sf				13,000			
Retail Space 'D' 1015sf @ 15w/sf				15,225			
Retail Space 'E' 933sf @ 30w/sf				28,000			
SUBTOTAL	0	0	0	122,725	0	0	0
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	0	0	0	122,725	0	0	0

CONN LOAD:	123	KVA
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VOLTS:	208	3ph
TOTAL CALC:	123	KVA
CALC AMPS:	341	AMPS

Aegis I – Bldg A & B Generator Load Summary							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
Panel EDP-Bldg A				105,000			
Panel EDP-Bldg B				152,000			
Fire Pump Bldg A (40HP)						43,200	43,200
Fire Pump Bldg B (40HP)						43,200	
SUBTOTAL	0	0	0	257,000	0	86,400	43,200
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	0	0	0	257,000	0	86,400	10,800

CONN LOAD:	387	KVA
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VOLTS:	208	3ph
TOTAL CALC:	354	KVA
CALC AMPS:	983	AMPS

Aegis I – Bldg A
RESIDENTIAL LOAD SUMMARY "MC-A1"

UNIT TYPE:	QTY PER FLOOR						TOTAL	AREA (SF)	LIG/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)
	LW 1	LW 2	LW 3	LW 4	LW 5	LW 6													
Studio	---	2	2	2	2	---	8	540	1620	3000	1500	8000	1500	1200	3500	0	900	0	2500
1bed/1bath	---	7	7	7	5	---	26	750	2250	3000	1500	8000	1500	1200	3500	0	900	0	5000
2bed/2bath	---	4	4	4	4	---	16	985	2955	3000	1500	8000	1500	1200	3500	0	900	0	8750
TOTALS:	0	13	13	13	11	0	50	39580	118740	150000	75000	400000	75000	60000	175000	0	45000	0	290000

VOLTS: 208 3ph
TOTAL CONNECTED: 1389 KVA
DEMAND FACTOR: 0.26 Based on
TOTAL CALCULATED: 361 KVA
CALCULATED AMPS: 1002 AMPS

NOTE:

Total Number of Residential Units = 46 – 50 (See N.E.C. Article: 220.84)

BUILDING 'A' MECHANICAL EQUIPMENT SCHEDULE									
NO.	EQUIPMENT NAME	HP/KW	VOLTS	PH	AMPS	CONDUIT	WIRE	GND	CIRCUIT
EF-1	EXHAUST FAN NO.1	8.2HP	120	1		1/2"	#12	#12	SEE UNIT PLANS
EF-2	EXHAUST FAN NO.2	135W	120	1		1/2"	#12	#12	SEE E.3.01
EF-3	EXHAUST FAN NO.3	1/10HP	120	1		1/2"	#12	#12	M1-20
EF-4	EXHAUST FAN NO. 4	57W	120	1		1/2"	#12	#12	M2-13
EF-5	EXHAUST FAN NO.5	1/2HP	120	1		1/2"	#12	#12	M2-13
EF-6	EXHAUST FAN NO.6		120	1		1/2"	#12	#12	M2-15
EF-7	EXHAUST FAN NO.7	1/4HP	120	1		1/2"	#12	#12	M2-19
EF-8	EXHAUST FAN NO.8	3/4HP	120	1		1/2"	#12	#12	M2-17
EF-9	EXHAUST FAN NO.9	1/2HP	120	1		1/2"	#12	#12	M2-19
EH-1	ELECTRIC WALL HEATER NO.1	1.5 KW	120	1		1/2"	#12	#12	SEE UNIT PLANS
EH-2	ELECTRIC WALL HEATER NO.2	500W	120	1		1/2"	#12	#12	SEE E.3.01
EH-3	ELECTRIC WALL HEATER NO.3	3.0 KW	208	1		1/2"	#12	#12	SEE E.3.01
EH-4	ELECTRIC WALL HEATER NO.4	3.0 KW	208	1		1/2"	#12	#12	H1-26
EH-5	ELECTRIC WALL HEATER NO.5	3.0 KW	208	1		1/2"	#12	#12	M1-14,16,18
EH-6	ELECTRIC WALL HEATER NO.1	2.0 KW	120	1		1/2"	#12	#12	SEE UNIT PLANS
FC-1	FAN COIL UNIT NO.1	11.3KW	208	3		1/2"	#12	#12	M1-8,10,12
HP-1	HEAT PUMP NO.1		208	3	31.4MCA	3/4"	#6	#10	M2-14,16,18
IAC-1	MINI SPLIT SYST NO.1 (INDOOR)								
OAC-1	MINI SPLIT SYST NO.1 (OUTDOOR)		208	1	28.0 MCA	1/2"	#10	#10	M2-2,4
IAC-2	MINI SPLIT SYST NO.2 (INDOOR)								
OAC-2	MINI SPLIT SYST NO.2 (OUTDOOR)		208	1	28.0 MCA	1/2'	#10	#10	M2-6,8
IHP-1	MINI SPLIT SYST NO.1 (INDOOR) (A & B)								
OHP-1	MINI SPLIT SYST NO.1 (OUTDOOR)		208	1	42.0 MCA	3/4"	#6	#10	SEE UNIT PLANS
IHP-2	MINI SPLIT SYST NO.2 (INDOOR) (A & B)								
OHP-2	MINI SPLIT SYST NO.2 (OUTDOOR)		208	1	22.1 MCA	3/4"	#10	#10	SEE UNIT PLANS
RTU-1	AIR HANDLING UNIT NO.1		208	3	41.0MCA	3/4'	#6	#10	M2-1,3,5
RTU-2	AIR HANDLING UNIT NO.2		208	3	31.0 MCA	3/4'	#6	#10	M2-7,9,11
PTHP-1	1SPLIT SYSTEM NO.1	3.2KW	208	1	10.6 MCA	1/2"	#12	#12	REFER TO UNIT PLANS
PTHP-2	2SPLIT SYSTEM NO.2	2.3KW	208	1	12.1 MCA	1/2"	#10	#10	REFER TO UNIT PLANS
SP-1	SUMP PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	E1-16
RP-1	RECIRC PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	M1-15
RP-2	RECIRC PUMP NO.2	1/2HP	120	1		1/2"	#12	#12	M1-32
BP-1	BOOSTER PUMP NO.1	(2) 5HP	208	3	28.8 EA.	1"	#4	#10	M1-31,33,35
WH-1	WATER HEATER NO.1 (GAS)		120	1		1/2"	#12	#12	M1-13 (PC)
WH-2	WATER HEATER NO.2 (GAS)		120	1		1/2"	#12	#12	M1-13 (PC)
WH-3	WATER HEATER NO.3 (GAS)		120	1		1/2"	#12	#12	M1-30 (PC)
WH-4	WATER HEATER NO.4 (GAS)		120	1		1/2"	#12	#12	M1-30 (PC)

GENERAL EQUIPMENT NOTES:

- A. CONTRACTOR/DESIGNER SHALL VERIFY ALL MECHANICAL EQUIPMENT CONNECTION LOAD REQUIREMENTS WITH THE MECHANICAL EQUIPMENT PROVIDER PRIOR TO ROUGH IN.
- B. MECHANICAL EQUIPMENT SIZES SHOWN IN THE MECHANICAL SCHEDULE ABOVE ARE FOR REFERENCE ONLY AND MAY NOT REFLECT THE ACTUAL EQUIPMENT TO BE INSTALLED.

BUILDING 'A'
LOAD SUMMARY & EQUIPMENT SCHEDULE
SCALE: NONE

1
E1.12

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3
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IN THE EVENT CONFLICTS ARE DISCOVERED
BETWEEN THE ORIGINAL SIGNED AND SEALED
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AND/OR THEIR CONSULTANTS, AND ANY COPY OF
THE DOCUMENTS TRANSMITTED BY MAIL, FAX,
ELECTRONICALLY OR OTHERWISE, THE ORIGINAL
SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 2017-053
DATE: 11/06/2019

- REVISIONS
- PLAN REVIEW 01.24.2020
- PLAN REVIEW 03.13.2020
- PLAN REVIEW 04.24.2020
- PLAN REVIEW 08.10.2020
- PLAN REVIEW 09.17.2020

AEGIS
MIXED-USE DEVELOPMENT
312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

SHEET:

E1.12



EXPIRES: July 5th, 2020

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- △ PLAN REVIEW 01.24.2020
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AEGIS
MIXED-USE DEVELOPMENT
312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

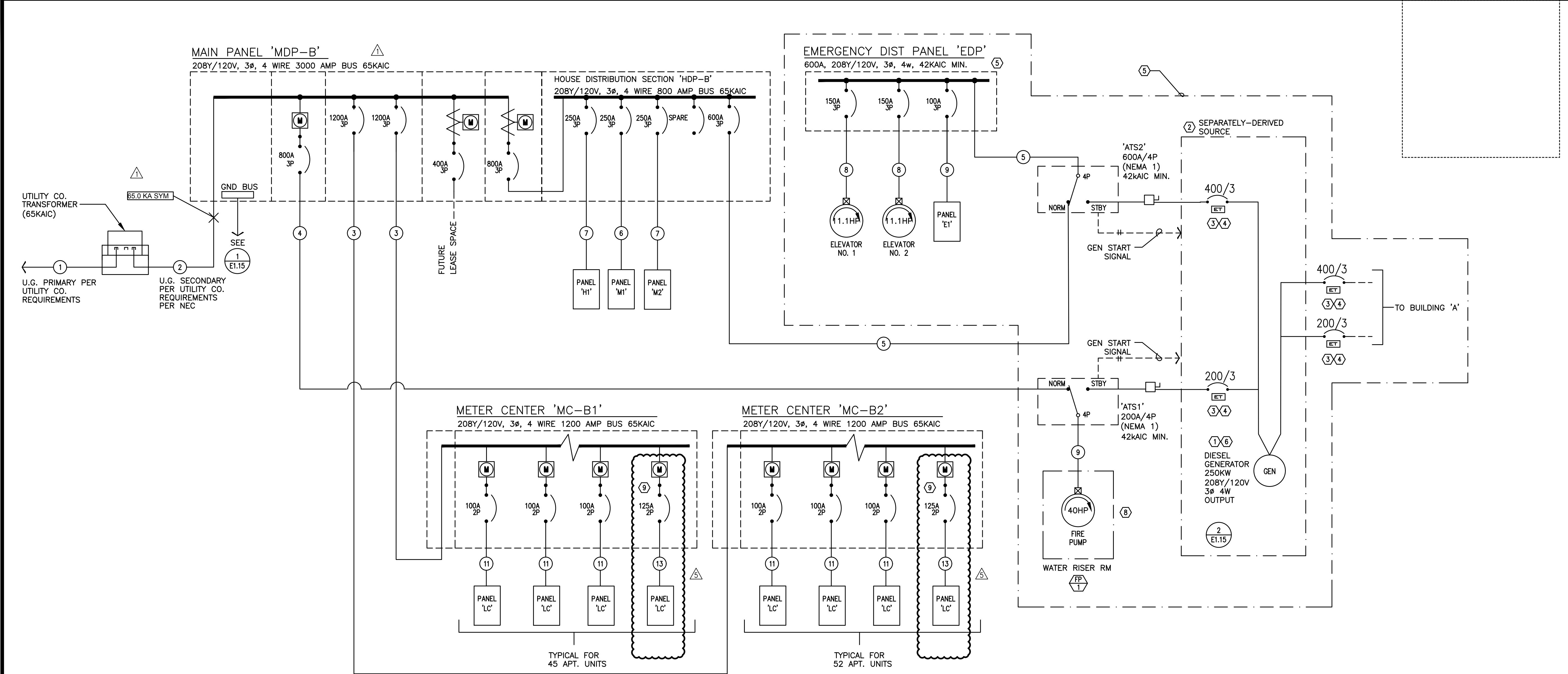
MFIA PANEL SCHEDULE											
panel		mounting SURFACE		location		BLDG 'A'		connected load amps			
E1		voltage		phase		bus & main		calculated load amps			
120/208V		3		100A		SCCR: 22K		MLO		56	
service	va	a/p	no.	a b c	no.	a/p	va	service	va		
SPARE		20/1	1	*	2	20/1	1500	SMOKE DAMPERS - FLR 1	5		
1 LIGHTS - BLDG EXTERIOR	500	20/1	3	*	4	20/1	1500	SMOKE DAMPERS - FLR 2&3	5		
1 LIGHTS - FLR 1 EGRESS	422	20/1	5	*	6	20/1	1500	SMOKE DAMPERS - FLR 4&5	5		
SPARE	0	20/1	7	*	8	20/1	1500	ELEVATOR PIT - LTS & PLUGS	2		
1 LIGHTS - STAIR 1	266	20/1	9	*	10	20/1	1500	ELEVATOR CAD LIGHTS	1		
1 LIGHTS - STAIR 2	266	20/1	11	*	12	20/1	1500	ELEVATOR CONTROLLER (OPT)	5		
1 LIGHTS - FLR 2 & 3 EGRESS	1296	20/1	13	*	14	20/1	1176	ELEVATOR RELIEF VENT	6		
1 LIGHTS - FLR 4, 5 & 6 EGRESS	1500	20/1	15	*	16	20/1	1176	SP-1 (ELEVATOR PIT)	6		
1 LIGHTS - TERRACE	500	20/1	17	*	18	20/1	1500	ELEVATOR SMOKE CURTAINS	5		
5 FAOP	500	20/1	19	*	20	20/1	500	EMERGENCY GAS SHUT OFF	5		
5 DAS	500	20/1	21	*	22	20/1	500	EMERGENCY GAS SHUT OFF	5		
5 GENERATOR ANNUNCIATOR	500	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			
NOTES:										line-line voltage	
Phase A 6472 VA Phase B 7442 VA Phase C 6188 VA										208	
Total Connected 20102 VA										largest motor (va)	
load code:										calculated load (va)	
1. LIGHTS=	1296	3766			1188	VA	6250	1.25		7813	
2. RECEPT=	1500	0			0	VA	1500	1 + 0.5		1500	
3. HEATING=	0	0			0	VA	0	1.00		0	
4. KITCHEN=	0	0			0	VA	0	1.00		0	
5. EQUIP=	2500	2500			5000	VA	10000	1.00		10000	
6. MOTORS=	1176	1176			0	VA	2352	*		2352	
7. MISC=	0	0			0	VA	0	1.00		0	
(* 125% of the largest motor + 100% of the balance)										TOTAL =	
										21665	

MFIA PANEL SCHEDULE											
panel		mounting SURFACE		location		BLDG 'A'		connected load amps			
H1		voltage		phase		bus & main		calculated load amps		156	
120/208V		3		250A		SCCR: 22K		MLO		150	
service	va	a/p	no.	a b c	no.	a/p	va	service	va		
SPARE		20/1	1	*	2	20/1	1080	RECEPT - FLR 1	2		
1 LIGHTS - SITE/PARKING	500	20/1	3	*	4	20/1	900	RECEPT - FLR 1	2		
1 LIGHTS - BLDG EXTERIOR	814	20/1	5	*	6	20/1	1080	RECEPT - FLR 1 (E. LOBBY)	2		
1 LIGHTS - FLR 1 (LOBBY DECOR)	222	20/1	7	*	8	20/1	1500	RECEPT - FLR 1 (PKG SYSTEM)	2		
1 LIGHTS - FLR 1 (BOH)	464	20/1	9	*	10	20/1	1500	AUTO DOORS	5		
5 BUILDING SIGNS	1500	20/1	11	*	12	20/1	1440	RECEPT - FLR 1	2		
1 LIGHTS - FLR 2 & 3	566	20/1	13	*	14	20/1	360	RECEPT - FLR 1 (ELEV EQ RM)	2		
5 UNIT ENTRY SYSTEM	1500	20/1	15	*	16	20/1	720	RECEPT - FLR 1 (W. LOBBY)	2		
1 LIGHTS - PLAZA	1500	20/1	17	*	18	20/1	500	PHONE BOARD	5		
5 FIREPLACE	360	20/1	19	*	20	20/1	500	COMMUNICATIONS BOARD	5		
2 RECEPT - FLR 2	1080	20/1	21	*	22	20/1	1500	ACCESS CONTROL SYSTEM	5		
2 RECEPT - FLR 3	1080	20/1	23	*	24	20/1	500	EH-2 (N. STAIR)	3		
2 RECEPT - MAINT. RM	1500	20/1	25	*	26	20/1	500	EH-4 (RISER RM)	3		
2 SECURITY SYSTEM	1500	20/1	27	*	28	20/1	500	EH-2 (S. STAIR)	3		
5 DAS SYSTEM	1500	20/1	29	*	30	20/1	500	EH-2 (E. VESTIBULE)	3		
2 LEASE D&E (TEMP LTS & PLUGS)	1500	20/1	31	*	32	20/1	500	EH-2 (W. VESTIBULE)	3		
2 LEASE B&C (TEMP LTS & PLUGS)	1500	20/1	33	*	34	20/1	SPARE				
2 LEASE A (TEMP LTS & PLUGS)	1500	20/1	35	*	36	20/1	SPARE				
7 PANEL H2	8320	150/3	37	*	38	20/1	SPARE				
7 *	8054	*	39	*	40	20/1	SPARE				
7 *	7150	*	41	*	42	20/1	SPARE				
NOTES:										line-line voltage	
Phase A 17408 VA Phase B 19718 VA Phase C 19064 VA										208	
Total Connected 56190 VA										largest motor (va)	
load code:										calculated load (va)	
1. LIGHTS=	1288	964			2314	VA	4566	1.25		5708	
2. RECEPT=	5940	5700			5100	VA	16740	1 + 0.5		13370	
3. HEATING=	1000	500			1000	VA	2500	1.00		2500	
4. KITCHEN=	0	0			0	VA	0	1.00		0	
5. EQUIP=	860	4500			3500	VA	8860	1.00		8860	
6. MOTORS=	0	0			0	VA	0	*		0	
7. MISC=	8320	8054			7150	VA	23524	1.00		23524	
(* 125% of the largest motor + 100% of the balance)										TOTAL =	
										53962	

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MFIA PANEL SCHEDULE												
panel		mounting		location:		BLDG 'A'		connected load amps				
H2		SURFACE		5th Flr Rm 594						65		
voltage		phase		bus & main				calculated load amps				
120/208V		3		150A		SCCR: 22K		MLO		59		
C	service	va	a/p	no.	a	b	c	no.	a/p	va	service	C
1	LIGHTS - FLR 4, 5, & 6	650	20/1	1	*			2	20/1	1080	RECEPT - 4TH FLR	2
1	LIGHTS - COMMUNITY RM	1000	20/1	3	*			4	20/1	1080	RECEPT - 5TH FLR	2
	SPARE		20/1	5	*			6	20/1	1300	RECEPT - COMMUNITY RM	2
	LIGHTS - TERRACE	500	20/1	7	*			8	20/1	450	RECEPT - COMMUNITY RM	2
2	RECEPT - TERRACE	1080	20/1	9	*			10	20/1	500	RECEPT - COMMUNITY RM	2
2	RECEPT - TERRACE	1260	20/1	11	*			12	20/1	1200	RECEPT - COMMUNITY RM	2
2	RECEPT - TERRACE	1260	20/1	13	*			14	20/1	1500	RECEPT - COMMUNITY RM	2
5	A/V SYSTEM	1500	20/1	15	*			16	20/1	1650	RECEPT - COMMUNITY RM	2
2	RECEPT - ROOF	1080	20/1	17	*			18	20/1	360	RECEPT - COMMUNITY RM	2
5	IRRIGATION	500	20/1	19	*			20	20/1	1080	RECEPT - COMMUNITY RM	2
5	LANDSCAPE LIGHTING	524	20/1	21	*			22	20/1	720	RECEPT - COMMUNITY RM	2
5	LANDSCAPE LIGHTING	1950	20/1	23	*			24	20/1	0	SPARE	
5	LANDSCAPE LIGHTING	1300	20/1	25	*			26	20/1	0	SPARE	
	SPARE	0	20/1	27	*			28	20/1	0	SPARE	
	BLANK			29	*			30	20/1		BLANK	
	BLANK			31	*			32	20/1		BLANK	
	BLANK			33	*			34	20/1		BLANK	
	BLANK			35	*			36	20/1		BLANK	
	BLANK			37	*			38	20/1		BLANK	
	BLANK			39	*			40	20/1		BLANK	
	BLANK			41	*			42	20/1		BLANK	
NOTES:												
Phase A		8320 VA								line-line voltage		
Phase B		8054 VA								208		
Phase C		7150 VA								largest motor (va)		
Total Connected		23524 VA								0		
load code:		ph. A		ph. B		ph. C		total		factor		
1. LIGHTS=		1150 1000				0 VA		2150		1.25		
2. RECEPT=		5370 5030				5200 VA		15600		1 + 0.5		
3. HEATING=		0 0				0 VA		0		1.00		
4. KITCHEN=		0 0				0 VA		0		1.00		
5. EQUIP=		1800 2024				1950 VA		5774		1.00		
6. MOTORS=		0 0				0 VA		0		*		
7. MISC=		0 0				0 VA		0		1.00		
(* 125% of the largest motor + 100% of the balance)												
TOTAL =										21262		



1 BUILDING 'B'
E1.14 ELECTRICAL ONE-LINE DIAGRAM
208/120v, 3ph, 4w

ONE-LINE GENERAL NOTES:

- A. COORDINATE ALL WORK ASSOCIATED WITH ELECTRIC SERVICE WITH LOCAL UTILITY. PROVIDE ALL CONDUIT, GROUNDING, TRANSFORMER VAULT/PAD, ETC., IN ACCORDANCE WITH SERVING UTILITY REQUIREMENTS.
- B. COORDINATE METERING REQUIREMENTS WITH UTILITY.
- C. FOR LOAD CENTER FEEDER LENGTHS GREATER THAN 145'-0" FROM METER CENTER, INCREASE WIRE SIZE ONE SIZE UP FOR VOLTAGE DROP.
- D. PER NEC 240.87, THE ELECTRICAL CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR ARC ENERGY REDUCTION DEVICE(S) FOR CIRCUIT BREAKERS 1200A OR GREATER. CONTRACTOR SHALL PROVIDE AN ENERGY-REDUCING ACTIVE FLASH MITIGATION SYSTEM OR OTHER METHOD APPROVED BY THE NEC.
- E. USE OF ALUMINUM CONDUCTORS, AS ALLOWED BY CODE, MAY BE SUBSTITUTED FOR COPPER. CONTRACTOR SHALL PROVIDE WRITTEN SUBSTITUTION REQUEST DEMONSTRATING THE THAT THE PROPOSED PRODUCT IS EQUIVALENT TO COPPER IN ALL ASPECTS.

ONE-LINE NOTES:

1. ESTIMATED GENERATOR STARTING LOAD IS BASED ON THE ELEVATOR & FIRE PUMP MOTORS ARE PROVIDED WITH SOFT-START
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 BREAKER WITH GENERATOR MANUFACTURER TO SELECTIVELY COORDINATE WITH POWER STUDY RECOMMENDATIONS.
5. 'LIFE SAFETY' BRANCH TO MEET ALL REQUIREMENTS OF NEC 700. CONTRACTOR SHALL BE AWARE THAT MFIA HAS ATTEMPTED TO INDICATE EQUIPMENT AND SIZES THAT WILL SELECTIVELY COORDINATE, BUT WILL NOT BE KNOWN UNTIL ELECTRICAL EQUIPMENT MANUFACTURER PERFORMS THE REQUIRED POWER STUDIES AS SPECIFIED IN 26 05 73. CHANGES MAY BE NECESSARY AFTER THE BID.
6. GENERATOR SIZED TO OPERATE ONLY ONE ELEVATOR AT A TIME. COORDINATE WITH ELEVATOR PROVIDER 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. TWO BEDROOM APARTMENT UNITS SHALL HAVE 125A LOAD CENTERS. REFER TO THE TYPICAL DWELLING UNIT CALCULATIONS ON SHEET E1.17 FOR MORE INFORMATION.

FEEDER SCHEDULE (COPPER)					
NO.	AMPS	CONDUIT	CONDUCTOR		
1		*(8) 4"	BY UTILITY CO.	& (1)	GND
2		*(8) 4"	BY UTILITY CO.	& (1)	GND
3	1200A	*(3) 4"	ea w/ (4) #600Kcmil	& (1) #3/0	GND
4	800A	*(2) 4"	ea w/ (4) #600Kcmil	& (1) #1/0	GND
5	600A	*(2) 3"	(4) #350Kcmil	& (1) #1	GND
6	400A	3 1/2"	(4) #500Kcmil	& (1) #3	GND
7	250A	2 1/2"	(4) #250Kcmil	& (1) #4	GND
8	200A	2"	(4) #3/0	& (1) #6	GND
9	150A	2"	(4) #1/0	& (1) #6	GND
10	100A	1 1/2"	(4) #1	& (1) #8	GND
11	100A	1 1/2"	(3) #1	& (1) #8	GND
12	60A	1 1/4"	(4) #4	& (1) #10	GND
13	125A	1 1/2"	(3) #1	& (1) #6	GND

* PARALLEL FEEDER

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Aegis I – Bldg B Main distribution Center "MDP-B"							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
PANEL H1	7,106	23,880	1,500	0	14,000	0	
PANEL M1/M2	1,047	4,320	25,370		500	99,551	
PANEL E1	7,280	1,500	500		11,000	2,352	
Elevator 1 (40hp)						43,200	43,200
Elevator 2 (40hp)						43,200	
Fire Pump						43,200	
Residential Meters (MC-B1)				336,000			
Residential Meters (MC-B2)				352,000			
Retail Space "f"				29,500			
981sf @ 30w/sf							
SUBTOTAL	15,433	29,700	27,370	717,500	25,500	231,503	43,200
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	19,291	19,850	27,370	717,500	25,500	231,503	10,800

CONN LOAD: 1090 KVA

VOLTS: 208 3ph
TOTAL CALC: 1052 KVA
CALC AMPS: 2920 AMPS

NOTE: BASED ON TOTAL CONNECTED LOAD, AND ESTIMATED LOAD FOR THE LEAST SPACE, THIS SERVICE PANEL IS AT FULL CAPACITY. NO ADDITIONAL LOADS SHALL BE CONNECTED WITHOUT COMPLETE REVIEW OF THE CONNECTED LOAD AS INSTALLED BY THE CONTRACTOR.

Aegis I – Bldg B Emergency Distribution Panel "EDP-B"							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
Panel E1	7,280	1,500	500	0	11,000	2,352	
Elevator 1 (40hp)						43,200	43,200
Elevator 2 (40hp)						43,200	
SUBTOTAL	7,280	1,500	500	0	11,000	88,752	43,200
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	9,100	1,500	500	0	11,000	88,752	10,800

CONN LOAD: 152 KVA

VOLTS: 208 3ph
TOTAL CALC: 122 KVA
CALC AMPS: 336 AMPS

Aegis I – Bldg A & B Generator Load Summary							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
Panel EDP-Bldg A				105,000			
Panel EDP-Bldg B				152,000			
Fire Pump Bldg A (40HP)						43,200	43,200
Fire Pump Bldg B (40HP)						43,200	
SUBTOTAL	0	0	0	257,000	0	86,400	43,200
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	0	0	0	257,000	0	86,400	10,800

CONN LOAD: 387 KVA

VOLTS: 208 3ph
TOTAL CALC: 354 KVA
CALC AMPS: 983 AMPS

BUILDING 'B' MECHANICAL EQUIPMENT SCHEDULE

NO.	EQUIPMENT NAME	HP/KW	VOLTS	PH	AMPS	CONDUIT	WIRE	GND	CIRCUIT
EF-1	EXHAUST FAN NO.1	9.9HP	120	1		1/2"	#12	#12	SEE UNIT PLANS
EF-2	EXHAUST FAN NO.2	10.8HP	120	1		1/2"	#12	#12	SEE UNIT PLANS
EF-3	EXHAUST FAN NO.3	8.2HP	120	1		1/2"	#12	#12	SEE E3.01
EF-4	EXHAUST FAN NO. 4	135W	120	1		1/2"	#12	#12	M1-21
EF-5	EXHAUST FAN NO.5	1/10HP	120	1		1/2"	#12	#12	M1-32,34,36
EF-6	EXHAUST FAN NO.6	1/4HP	120	1		1/2"	#12	#12	M2-5
EF-7	EXHAUST FAN NO.7	57W	120	1		1/2"	#12	#12	M2-32
EF-8	EXHAUST FAN NO.8	1/2HP	120	1		1/2"	#12	#12	M2-25
EF-9	EXHAUST FAN NO.9	3/4HP	120	1		1/2"	#12	#12	M2-27,29
EF-10	EXHAUST FAN NO.10	1/2HP	120	1		1/2"	#12	#12	M2-31
EF-11	EXHAUST FAN NO.11	1/2HP	120	1		1/2"	#12	#12	M2-33
EF-12	EXHAUST FAN NO.12	3/4HP	120	1		1/2"	#12	#12	M2-26,28
EF-13	EXHAUST FAN NO.13	1/2HP	120	1		1/2"	#12	#12	M2-30
EH-1	ELECTRIC WALL HEATER NO.1	1.5 KW	120	1		1/2"	#12	#12	SEE UNIT PLANS
EH-2	ELECTRIC WALL HEATER NO.2	500W	120	1		1/2"	#12	#12	SEE E3.01
EH-3	ELECTRIC WALL HEATER NO.3	3.0 KW	208	1		1/2"	#12	#12	SEE E3.01
EH-4	ELECTRIC WALL HEATER NO.4	3.0 KW	208	1		1/2"	#12	#12	H1-29
EH-5	ELECTRIC WALL HEATER NO.5	3.0 KW	208	1		1/2"	#12	#12	SEE E3.01
EH-6	ELECTRIC WALL HEATER NO.1	2.0 KW	120	1		1/2"	#12	#12	SEE UNIT PLANS
FC-1	FAN COIL UNIT NO.1	11.3KW	208	3		1/2"	#12	#12	M1-8,10,12
HP-1	HEAT PUMP NO.1		208	3	31.4MCA	3/4"	#6	#10	M2-14,16,18
IAC-1	MINI SPLIT SYST NO.1 (INDOOR)								
OAC-1	MINI SPLIT SYST NO.1 (OUTDOOR)		208	1	28.0 MCA	1/2"	#10	#10	M2-7,9
IAC-2	MINI SPLIT SYST NO.2 (INDOOR)								
OAC-2	MINI SPLIT SYST NO.2 (OUTDOOR)		208	1	28.0 MCA	1/2'	#10	#10	M2-8,10
IHP-1	MINI SPLIT SYST NO.1 (INDOOR) (A & B)								
OHP-1	MINI SPLIT SYST NO.1 (OUTDOOR)		208	1	25.0 MCA	3/4"	#8	#10	SEE UNIT PLANS
IHP-2	MINI SPLIT SYST NO.2 (INDOOR) (A & B)								
OHP-2	MINI SPLIT SYST NO.2 (OUTDOOR)		208	1	18.7 MCA	1/2'	#12	#12	SEE UNIT PLANS
IHP-3	MINI SPLIT SYST NO.3 (INDOOR) (A & B)								
OHP-3	MINI SPLIT SYST NO.3 (OUTDOOR)		208	1	18.7 MCA	1/2'	#12	#12	SEE UNIT PLANS
IHP-4	MINI SPLIT SYST NO.4 (INDOOR)								
OHP-4	MINI SPLIT SYST NO.4 (OUTDOOR)		208	1	18.7 MCA	1/2'	#12	#12	SEE UNIT PLANS
IHP-5	MINI SPLIT SYST NO.5 (INDOOR)								
OHP-5	MINI SPLIT SYST NO.5 (OUTDOOR)		208	1	18.7 MCA	1/2'	#12	#12	SEE UNIT PLANS
RTU-1	AIR HANDLING UNIT NO.1		208	3	71.6MCA	1-1/4'	#2	#8	M2-1,3,5
RTU-2	AIR HANDLING UNIT NO.2		208	3	31.0 MCA	3/4'	#6	#10	M2-7,9,11
PTAC-1	THRU-WALL AC NO.1	3.5KW	208	1	10.6 MCA	1/2"	#12	#12	REFER TO UNIT PLANS
PTAC-2	THRU-WALL AC NO.2	3.5KW	208	1	12.1 MCA	1/2"	#10	#10	REFER TO UNIT PLANS
SF-1	SUPPLY FAN NO.1	12.2KW	208	1		1/2"	#12	#12	M1-35,37
SP-1	SUMP PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	E1-16
RP-1	RECIRC PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	M1-15
RP-2	RECIRC PUMP NO.2	1/2HP	120	1		1/2"	#12	#12	M1-16
BP-1	BOOSTER PUMP NO.1	(2) 5HP	208	3		3/4"	#6	#10	M1-2,4,6
WH-1	WATER HEATER NO.1 (GAS)		120	1		1/2"	#12	#12	M1-13 (PC)
WH-2	WATER HEATER NO.2 (GAS)		120	1		1/2"	#12	#12	M1-13 (PC)
WH-3	WATER HEATER NO.3 (GAS)		120	1		1/2"	#12	#12	M1-14 (PC)
WH-4	WATER HEATER NO.4 (GAS)		120	1		1/2"	#12	#12	M1-14 (PC)

Aegis I – Bldg B																			
RESIDENTIAL LOAD SUMMARY 'MC-B1'																			
UNIT TYPE:	QTY PER FLOOR						TOTAL	AREA (SF)	LTG/RECEPT	SM APPL	LAUNDRY	COOKING GAS	MICROWAVE	DISHWASHER	ELECT DRYER	WATER HEATER	DISPOSAL	MOTORS	LARGEST OF: AC/HEATING
	LW 1	LW 2	LW 3	LW 4	LW 5	LW 6			(3VA / SF)	(1500VA X 2)	(1500VA)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)
Studio	0	2	2	2	2	2	10	540	1620	3000	1500	8000	1500	1200	3500	0	900	0	2500
1bed/1bath	0	4	4	4	4	4	20	750	2250	3000	1500	8000	1500	1200	3500	0	900	0	5000
2bed/2bath	0	3	3	3	3	3	15	985	2955	3000	1500	8000	1500	1200	3500	0	900	0	8750
TOTALS:	0	9	9	9	9	9	45	35175	105525	135000	67500	360000	67500	54000	157500	0	40500	0	256250

VOLTS: 208 3ph
TOTAL CONNECTED: 1244 KVA
DEMAND FACTOR: 0.27 Based on
TOTAL CALCULATED: 336 KVA
CALCULATED AMPS: 932 AMPS

NOTE:

on Total Number of Residential Units = 43-45 (See N.E.C. Article: 220.84)

Aegis I – Bldg B																			
RESIDENTIAL LOAD SUMMARY 'MC-B2'																			
UNIT TYPE:	QTY PER FLOOR						TOTAL	AREA (SF)	LTG/RECEPT	SM APPL	LAUNDRY	COOKING	MICROWAVE	DISHWASHER	ELECT DRYER	WATER HEATER	DISPOSAL	MOTORS	LARGEST OF: AC/HEATING
	LW 1	LW 2	LW 3	LW 4	LW 5	LW 6			(3VA / SF)	(1500VA X 2)	(1500VA)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)	(CONNECTED)
Studio	3	2	2	2	2	2	13	540	1620	3000	1500	8000	1500	1200	3500	0	900	0	2500
1bed/1bath	2	5	5	5	5	5	27	750	2250	3000	1500	8000	1500	1200	3500	0	900	0	5000
2bed/2bath	2	2	2	2	2	2	12	985	2955	3000	1500	8000	1500	1200	3500	0	900	0	8750
TOTALS:	7	9	9	9	9	9	52	39090	117270	156000	78000	416000	78000	62400	182000	0	46800	0	272500

VOLTS: 208 3ph
TOTAL CONNECTED: 1409 KVA
DEMAND FACTOR: 0.25 Based on
TOTAL CALCULATED: 352 KVA
CALCULATED AMPS: 978 AMPS

NOTE:

on Total Number of Residential Units = 51-55 (See N.E.C. Article: 220.84)

BUILDING 'B' LOAD SUMMARY & EQUIPMENT SCHEDULE

1
E1.15
SCALE: NONE

GENERAL EQUIPMENT NOTES:

- CONTRACTOR/DESIGNER SHALL VERIFY ALL MECHANICAL EQUIPMENT CONNECTION LOAD REQUIREMENTS WITH THE MECHANICAL EQUIPMENT PROVIDER PRIOR TO ROUGH IN.
- MECHANICAL EQUIPMENT SIZES SHOWN IN THE MECHANICAL SCHEDULE ABOVE ARE FOR REFERENCE ONLY AND MAY NOT REFLECT THE ACTUAL EQUIPMENT TO BE INSTALLED.

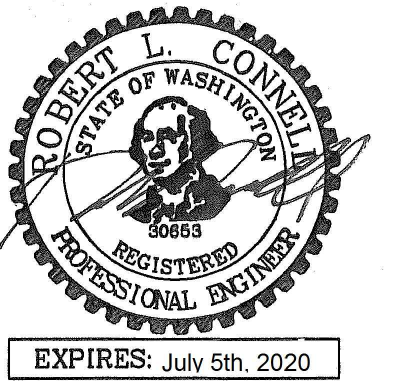
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E1.15

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PROJECT # 2017-053
DATE: 11/06/2019

REVISIONS

- PLAN REVIEW 01.24.2020
- PLAN REVIEW 03.13.2020
- PLAN REVIEW 04.24.2020
- PLAN REVIEW 08.10.2020
- PLAN REVIEW 09.17.2020

AEGIS
MIXED-USE DEVELOPMENT
312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660



EXPIRES: July 6th, 2020

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PROJECT # 2017-053
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REVISIONS

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- △ PLAN REVIEW 09.17.2020

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MIXED-USE DEVELOPMENT

312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

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E1.16

MFIA PANEL SCHEDULE											
panel	mounting	location BLDG 'B'			connected load amps						
E1	SURFACE	2nd Flr Rm 292						63			
voltage	phase	bus & main			calculated load amps						
120/208V	3	100A SCCR: 22K			MLO			68			
service	va	a/p	no.	a b c	no.	a/p	va	service	C		
SPARE	0	20/1	1	*	2	20/1	1500	SMOKE DAMPERS - FLR 1 & 2	5		
1 LIGHTS - BLDG EXTERIOR	500	20/1	3	*	4	20/1	1500	SMOKE DAMPERS - FLR 3 & 4	5		
1 LIGHTS - STAIR 1	500	20/1	5	*	6	20/1	1500	SMOKE DAMPERS - FLR 5 & 6	5		
1 LIGHTS - STAIR 2	500	20/1	7	*	8	20/1	1500	ELEVATOR PIT LITS & PLUGS	2		
1 LIGHTS - FLR 1	1200	20/1	9	*	10	20/1	1500	ELEVATOR CAD LIGHTS	1		
1 LIGHTS - FLR 2 & 3	1232	20/1	11	*	12	20/1	1500	ELEVATOR CONTROLLER (OPT)	5		
1 LIGHTS - FLR 4 & 5	1232	20/1	13	*	14	20/1	1176	ELEVATOR RELIEF VENT	6		
1 LIGHTS - FLR 6	616	20/1	15	*	16	20/1	1176	SP-1 (ELEVATOR PIT)	6		
5 SMOKE CURTAIN	1500	20/1	17	*	18	20/1	500	GENERATOR BLOCK HEATER	3		
5 SMOKE CURTAIN	1500	20/1	19	*	20	20/1	500	GENERATOR BATTERY CHARGER	5		
SPARE	0	20/1	21	*	22	20/1	0	SPARE			
5 FACP	500	20/1	23	*	24	20/1	0	SPARE			
5 DAS	500	20/1	25	*	26	20/1	0	SPARE			
5 GENERATOR ANNUNCIATOR	500	20/1	27	*	28	20/1	0	SPARE			
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	8408 VA	NOTES:			line-line voltage			208			
Phase B	6992 VA										
Phase C	7232 VA							largest motor (va)			
Total Connected	22632 VA							0			
load code:	ph. A	ph. B	ph. C	total	factor	calculated load (va)					
1. LIGHTS=	1732	3816	1732	VA	7280 1.25						
2. RECEPT.=	1500	0	0	VA	1500 1 + 0.5						
3. HEATING=	0	0	500	VA	500 1.00						
4. KITCHEN=	0	0	0	VA	0 1.00						
5. EQUIP.=	4000	2000	5000	VA	11000 1.00						
6. MOTORS=	1176	1176	0	VA	2352 *						
7. MISC=	0	0	0	VA	0 1.00						
(* 125% of the largest motor + 100% of the balance)						TOTAL =	24452				

MFIA PANEL SCHEDULE													
panel	mounting	location			BLDG 'B'	connected load amps			129				
H1	SURFACE	FLR 1 RM 198											
voltage	phase	bus & main			calculated load amps								
120/208V	3	250A	(SCCR: 22k)		MLO	115							
service	va	a/p	no.	a b c	no.	a/p	va	service	C				
1 LIGHTS - SITE/PARKING	1440	20/1	1	*	2	20/1	900	RECEPT - FLR 1	2				
1 LIGHTS - BLDG EXTERIOR	500	20/1	3	*	4	20/1	900	RECEPT - FLR 1 (E. LOBBY)	2				
1 LIGHTS - FLR 1 (LOBBY)	1032	20/1	5	*	6	20/1	1500	RECEPT - FLR 1 (OFFICE)	2				
1 LIGHTS - FLR 1 (CORRIDOR)	267	20/1	7	*	8	20/1	1500	RECEPT - FLR 1 (PKG SYSTEM)	2				
1 LIGHTS - FLR 1 (BOH)	1169	20/1	9	*	10	20/1	1080	RECEPT - FLR 1	2				
1 LIGHTS - UNIT ENTRIES	500	20/1	11	*	12	20/1	1080	RECEPT - FLR 1	2				
1 LIGHTS - FLR 2 & 3	698	20/1	13	*	14	20/1	1260	RECEPT - FLR 1 (W. LOBBY)	2				
5 BUILDING SIGNS	1500	20/1	15	*	16	20/1	1500	RECEPT - FLR 1 (FITNESS)	2				
5 DRINKING FOUNTAIN	1500	20/1	17	*	18	20/1	1500	RECEPT - FLR 1 (FITNESS)	2				
5 UNIT ENTRY SYSTEM	1500	20/1	19	*	20	20/1	1500	RECEPT - FLR 1 (FITNESS)	2				
2 RECEPT - FLR 2	1080	20/1	21	*	22	20/1	0	SPARE	5				
2 RECEPT - FLR 3	1080	20/1	23	*	24	20/1	1500	AUTO DOORS	5				
3 EH-2 (N. STAIR)	500	20/1	25	*	26	20/1	500	PHONE BOARD	5				
3 EH-2 (S. STAIR)	500	20/1	27	*	28	20/1	500	COMMUNICATIONS BOARD	5				
3 EH-4 (RISER)	500	20/1	29	*	30	20/1	500	ACCESS CONTROLS	5				
5 A/V SYSTEM	1500	20/1	31	*	32	20/1	1500	RECEPT - MAINT. RM	5				
5 FIREPLACE	500	20/1	33	*	34	20/1	1500	RECEPT - SECURITY	5				
1 LTS & PLUGS (TEMP)	1500	20/1	35	*	36	20/1	1500	WALL FANS - FITNESS RM	5				
5 DAS SYSTEM	1500	20/1	37	*	38	20/1	1500	WALL FANS - FITNESS RM	5				
2 RECEPT - FITNESS	1500	20/1	39	*	40	20/1	1500	RECEPT - FITNESS	2				
2 RECEPT - FITNESS	1500	20/1	41	*	42	20/1	1500	RECEPT - FITNESS	2				
Phase A	16065 VA	NOTES:			line-line voltage			208					
Phase B	13729 VA												
Phase C	16692 VA							largest motor (va)					
Total Connected	46496 VA							0					
load code:	ph. A	ph. B	ph. C	total	factor	calculated load (va)							
1. LIGHTS=	2405	1669	3032	VA	7106	1.25				8883			
2. RECEPT.=	6660	9060	8160	VA	23880	1 + 0.5				16940			
3. HEATING=	500	500	500	VA	1500	1.00				1500			
4. KITCHEN=	0	0	0	VA	0	1.00				0			
5. EQUIP.=	6500	2500	5000	VA	14000	1.00				14000			
6. MOTORS=	0	0	0	VA	0	*				0			
7. MISC=	0	0	0	VA	0	1.00				0			
(* 125% of the largest motor + 100% of the balance)												Total =	41323

MFIA PANEL SCHEDULE											
panel	mounting	location BLDG 'B'			connected load amps						
M1	SURFACE	ELECT. RM 198			157						
voltage	phase	bus & main			calculated load amps						
120/208V	3	250A	(SCCR: 22K)	MLO	157						
service	va	a/p	no.	a b c	no.	a/p	va	service			
6 TRASH COMPACTOR	2100	40/3	1	*	2	50/3	3864	BP-1			
6 *	2100	*	3	*	4	*	3864	*			
6 *	2100	*	5	*	6	*	3864	*			
6 TRASH COMPACTOR	2100	40/3	7	*	8	20/3	1356	FC-1			
6 *	2100	*	9	*	10	*	1356	*			
6 *	2100	*	11	*	12	*	1356	*			
3 WH-1.2 (GAS)	600	20/1	13	*	14	20/1	600	WH-3.4 (GAS)			
6 RP-1	1176	20/1	15	*	16	20/1	1176	RP-2			
5 EV CHARGING (FUTURE)	40/2	17	*	18	20/1	500	IRRIGATION CONTROLS	5			
5 *	*	19	*	20	20/1	0	SPARE				
5 *	*	21	*	22	20/1	0	SPARE				
5 EV CHARGING (FUTURE)	40/2	23	*	24	20/1	0	SPARE				
5 *	*	25	*	26	20/3	1500	EH-5 (BIKE RM)	3			
5 *	*	27	*	28	*	1500	*	3			
5 EV CHARGING (FUTURE)	40/2	29	*	30	*	1500	*	3			
5 *	*	31	*	32	20/3	1500	EH-5 (TRASH RM)	3			
5 *	*	33	*	34	*	1500	*	3			
3 SF-1	6085	60/2	35	*	36	*	1500	3			
3 *	6085	*	37	*	38	20/1	135	EF-4			
3 EH-3 (TEMP)	1500	20/2	39	*	40	20/1	0	SPARE			
3 *	1500	*	41	*	42	20/1	0	SPARE			
Phase A							19840 VA	NOTES:		line-line voltage	
Phase B							16272 VA			208	
Phase C							20505 VA			largest motor (va)	
Total Connected							56617 VA			0	
load code:		ph. A	ph. B	ph. C		total	factor	calculated load (va)			
1. LIGHTS=		0	0	0		VA	0	1.25	0		
2. RECEPT.=		0	0	0		VA	0	0.1 + 0.5	0		
3. HEATING=		10285	4500	10585		VA	25370	1.00	25370		
4. KITCHEN=		0	0	0		VA	0	1.00	0		
5. EQUIP.=		0	0	500		VA	500	1.00	500		
6. MOTORS=		9555	11772	9420		VA	30747	*	30747		
7. MISC.=		0	0	0		VA	0	1.00	0		
(* 125% of the largest motor + 100% of the balance)							Total =	56617			



EXPIRES: July 5th, 2020

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PROJECT # 2017-053
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- △ PLAN REVIEW 08.10.2020
- △ PLAN REVIEW 09.17.2020

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MIXED-USE DEVELOPMENT

312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

SHEET:

E1.17

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DWELLING UNIT LOAD CALCULATION

Project: Aegis I

Unit Type: Studio

Area: 540 square feet(average)

Minimum Size Feeder (NEC 220.40):

General lighting load at 3 VA / SF	1,620 VA
Small Appliance load (2 ckt at 1500VA each)	3,000 VA
Laundry Load (1 ckt at 1500VA)	1,500 VA
Range (GAS)	8,000 VA
Other Cooking Appliance Load (Microwave Oven)	1,500 VA
Dishwasher Load	1,200 VA
Electric Dryer Load	3,500 VA
Electric Water Heater Load	0 VA
Disposal load	900 VA
Other motor loads	0 VA
Total "General Loads"	21,220 VA
First 10 kVA of "general loads" at 100%	10,000 VA
Remainder of "general loads" at 40%	4,488 VA
Net "general load"	14,488 VA
Largest of: -or- -or- 2500 VA of electric space heating (less than 4) at 65% 0 VA of electric space heating (4 or more) at 40% 2,500 VA of air conditioning/cooling/heat pumps at 100%	0 VA 0 VA 2,500 VA
TOTAL LOAD	16,988 VA

For 120/208-volt, 4-wire, three-phase service or feeder,
16,988 VA / 208 volts = 82 Amps

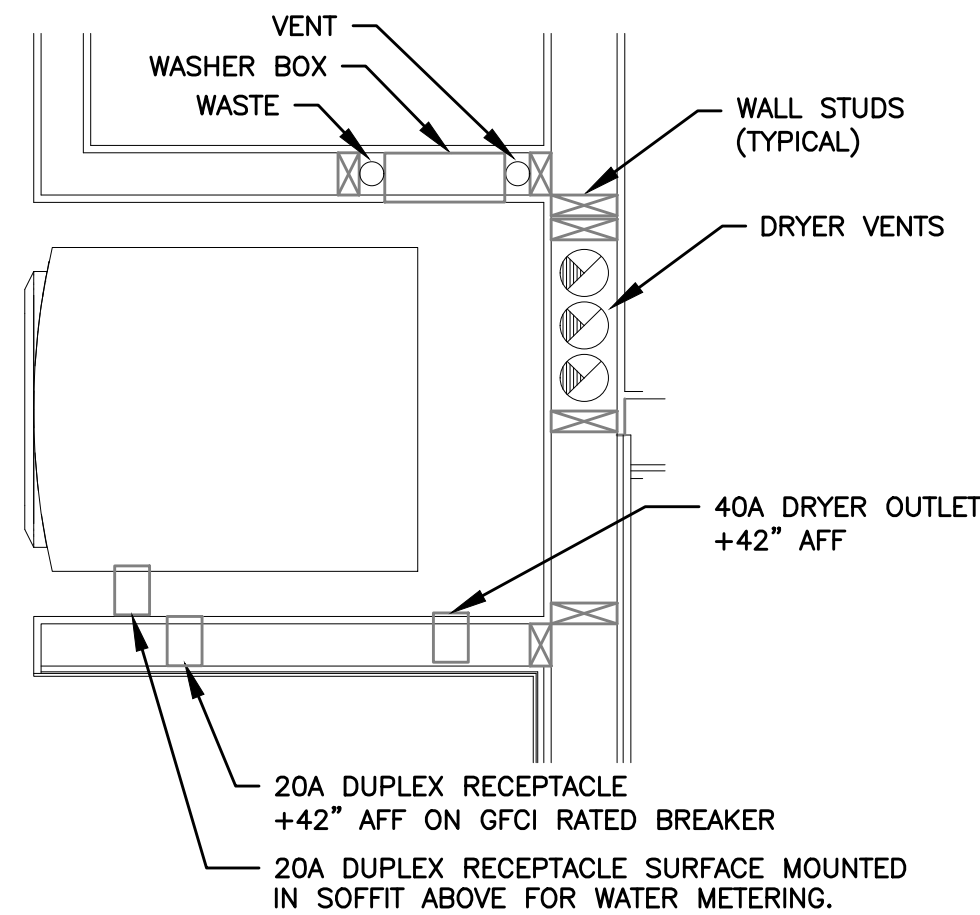
Therefore, this dwelling unit shall be permitted to be served by a 100 amp service.

MFIA CIRCUIT DIRECTORY 16-Sep-20

Loadcenter Name	mounting	location
LC-STUDIO (TYPICAL)	RECESSED	
voltage 208/120	phase 1	bus & main 100A MLO (SCCR: 22K)
lights-KITCHEN/LIVING	15/1(A)	1 * 2 20/1(A) APPLIANCE CIRCUIT
LTS & RECEPT - BATH	15/1	3 * 4 20/1(A) APPLIANCE CIRCUIT
RECEPT - LIVING	15/1(A)	5 * 6 20/1 REFRIGERATOR
RECEPT - LIVING	15/1(A)	7 * 8 20/1 MICRO/HOOD
SPARE	15/1(A)	9 * 10 20/1 RANGE (GAS)
SPARE	15/1(A)	11 * 12 20/1 SPARE
WASHER	20/1(G)	13 * 14 20/1 DISHWASHER (WHERE USED)
DRYER	40/2	15 * 16 20/1 DISPOSAL
DRYER BOOSTER (OPT)	20/1	17 * 18 20/2 HEAT
WATER METER	20/1	19 * 20 *
SMART PANEL	20/1	21 * 22 20/2 HEAT (WHERE USED)
BLANK	25	23 * 24 *
BLANK	27	25 * 26 20/1 SPARE
BLANK	28	27 * 28 BLANK
BLANK	29	29 * 30 BLANK

NOTES:

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



NOTES:

- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH IN, TO ENSURE THAT ELECTRICAL DEVICES ARE NOT INSTALLED WHERE THEY WILL CREATE CONFLICT.
- PREFERRED INSTALLATION SHALL HAVE THE ELECTRICAL DEVICES ON A WALL OPPOSITE THE WORK OF ANY OTHER TRADE.
- COORDINATE WITH WATER METER INSTALLER FOR EXACT LOCATION OF DUPLEX RECEPTACLE, WHERE REQUIRED.
- FIELD COORDINATE WITH ALL TRADES PRIOR TO ROUGH IN.

2
E1.17
NO SCALE
TYPICAL WASHER/DRYER ALCOVE

DWELLING UNIT LOAD CALCULATION

Project: Aegis I

Unit Type: 1Bedroom

Area: 750 square feet(average)

Minimum Size Feeder (NEC 220.40):

General lighting load at 3 VA / SF	2,250 VA
Small Appliance load (2 ckt at 1500VA each)	3,000 VA
Laundry Load (1 ckt at 1500VA)	1,500 VA
Range (GAS)	8,000 VA
Other Cooking Appliance Load (Microwave Oven)	1,500 VA
Dishwasher Load	1,200 VA
Electric Dryer Load	3,500 VA
Electric Water Heater Load	0 VA
Disposal load	900 VA
Other motor loads	0 VA
Total "General Loads"	21,850 VA
First 10 kVA of "general loads" at 100%	10,000 VA
Remainder of "general loads" at 40%	4,740 VA
Net "general load"	14,740 VA
Largest of: -or- -or- 1,500 VA of electric space heating (less than 4) at 65% 975 VA of electric space heating (4 or more) at 40% 3,200 VA of air conditioning/cooling/heat pumps at 100%	975 VA 0 VA 3,200 VA
TOTAL LOAD	18,915 VA

For 120/208-volt, 4-wire, three-phase service or feeder,
18,915 VA / 208 volts = 91 Amps

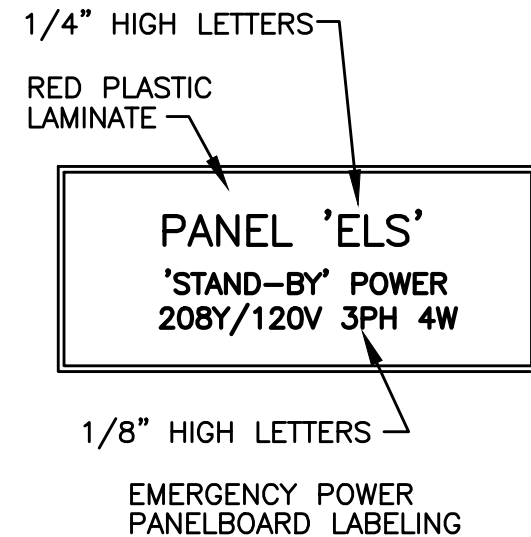
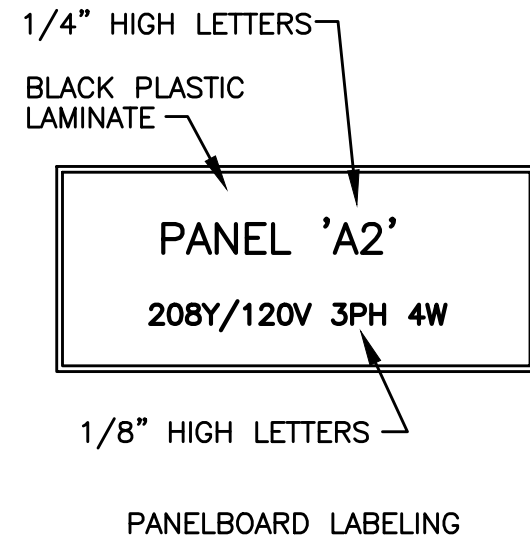
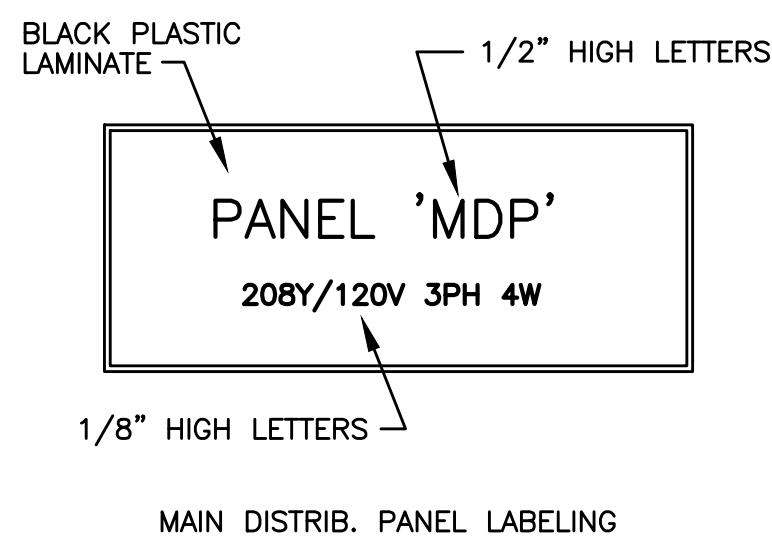
Therefore, this dwelling unit shall be permitted to be served by a 100 amp service.

MFIA CIRCUIT DIRECTORY 16-Sep-20

Loadcenter Name	mounting	location
LC-1BR (TYPICAL)	RECESSED	
voltage 208/120	phase 1	bus & main 100A MLO (SCCR: 22K)
lights-KITCHEN/LIVING	15/1(A)	1 * 2 20/1(A) APPLIANCE CIRCUIT
LTS & RECEPT - BATH	15/1	3 * 4 20/1(A) APPLIANCE CIRCUIT
LTS & RECEPT - BEDROOM	15/1(A)	5 * 6 20/1 REFRIGERATOR
RECEPT - LIVING	15/1(A)	7 * 8 20/1 MICRO/HOOD
SPARE	15/1(A)	9 * 10 20/1 RANGE (GAS)
SPARE	15/1(A)	11 * 12 20/1 SPARE
WASHER	20/1(G)	13 * 14 20/1 DISHWASHER (WHERE USED)
DRYER	40/2	15 * 16 20/1 DISPOSAL
DRYER BOOSTER (OPT)	20/1	17 * 18 20/2 HEAT
WATER METER	20/1	19 * 20 *
SMART PANEL	20/1	21 * 22 20/2 HEAT
BLANK	25	23 * 24 *
BLANK	27	25 * 26 BLANK
BLANK	28	27 * 28 BLANK
BLANK	29	29 * 30 BLANK

NOTES:

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



3
E1.17
NO SCALE
SWITCHBOARD/PANEL LABELING DETAIL

NOTE: ALL LETTERS ARE ENGRAVED WHITE

DWELLING UNIT LOAD CALCULATION

Project: Aegis I

Unit Type: 2Bedroom

Area: 985 square feet(average)

Minimum Size Feeder (NEC 220.40):

General lighting load at 3 VA / SF	2,955 VA
Small Appliance load (2 ckt at 1500VA each)	3,000 VA
Laundry Load (1 ckt at 1500VA)	1,500 VA
Range (GAS)	8,000 VA
Other Cooking Appliance Load (Microwave Oven)	1,500 VA
Dishwasher Load	1,200 VA
Electric Dryer Load	3,500 VA
Electric Water Heater Load	0 VA
Disposal load	900 VA
Other motor loads	0 VA
Total "General Loads"	22,555 VA
First 10 kVA of "general loads" at 100%	10,000 VA
Remainder of "general loads" at 40%	5,022 VA
Net "general load"	15,022 VA
Largest of: -or- -or- 8750 VA of electric space heating (less than 4) at 65% 0 VA of electric space heating (4 or more) at 40% 8,750 VA of air conditioning/cooling/heat pumps at 100%	0 VA 0 VA 8,750 VA
TOTAL LOAD	23,772 VA

For 120/208-volt, 4-wire, three-phase service or feeder,
23,772 VA / 208 volts = 114 Amps

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

MFIA CIRCUIT DIRECTORY 16-Sep-20

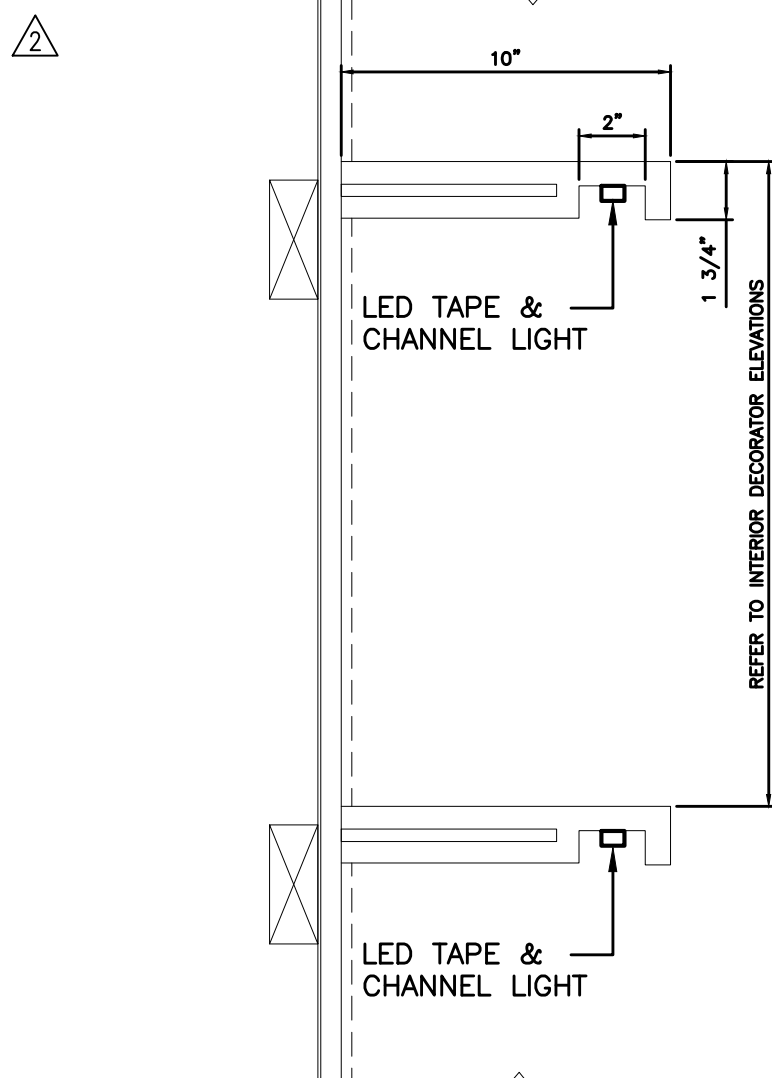
Loadcenter Name	mounting	location
LC-2BR (TYPICAL)	RECESSED	
voltage 208/120	phase 1	bus & main 125A MLO (SCCR: 22K)
lights-KITCHEN/LIVING	15/1(A)	1 * 2 20/1(A) APPLIANCE CIRCUIT
LTS & RECEPT - BATH	15/1	3 * 4 20/1(A) APPLIANCE CIRCUIT
RECEPT - LIVING	15/1(A)	5 * 6 20/1 REFRIGERATOR
RECEPT - LIVING	15/1(A)	7 * 8 20/1 MICRO/HOOD
LTS & RECEPT - BEDROOM	15/1(A)	9 * 10 20/1 RANGE (GAS)
LTS & RECEPT - BEDROOM	15/1(A)	11 * 12 20/1 DISHWASHER
WASHER	20/1(G)	13 * 14 20/1 DISPOSAL
DRYER	40/2	15 * 16 50/2 HEAT
DRYER BOOSTER (OPT)	20/1	17 * 18 *
WATER METER (OPT)	15/1	19 * 20 20/2 HEAT (WHERE USED)
SMART PANEL	20/1	21 * 22 *
BLANK	25	23 * 24 20/2 HEAT (WHERE USED)
BLANK	27	25 * 26 BLANK
BLANK	29	27 * 28 BLANK
BLANK	30	29 * 30 BLANK

NOTES:

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

TYPICAL RESIDENTIAL UNIT LOAD SUMMARY & LOAD CENTER SCHEDULES

1
E1.17
SCALE: NONE



4
E1.17
NO SCALE
UNDER SHELF LIGHTING DETAIL

NOTES:

- FIXTURE TYPE LF1 (LED TAPE & CHANNEL) TO BE INSTALLED IN THE RECESSED CAVITY LOCATED ON THE UNDERSIDE OF EACH SHELF.
- UNDER SHELF LIGHT FIXTURES TO BE CUT TO MATCH THE SHELF CAVITY LENGTH.
- CONTRACTOR SHALL COORDINATE WITH THE INTERIOR DESIGN DOCUMENTS AND INSTALLER PRIOR TO ORDERING ANY MATERIALS AND PRIOR TO INSTALLATION TO VERIFY EXACT REQUIREMENTS FOR COMPLETE INSTALLATION.
- CONTRACTOR SHALL COORDINATE WITH SHELIVING INSTALLER TO ROUTE WIRING IN A CONCEALED MANNER BEST SUITED TO THE PROJECT.
- LOW VOLTAGE LIGHTING RELAYS & POWER SUPPLIES SHALL BE CONCEALED WITHIN THE CABINET LOCATED BELOW THE SHELIVING.
- PROVIDE SWITCHING CONTROLS AS INDICATED ON THE LIGHTING PLANS.

LIGHTING FIXTURE LIST					
TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
A1 A1E	LED 3000K 2000LM/80CRI 25W	LITHONIA (OR APPROVED OTHER)	ZLIN SERIES	TYPE :4" GEN. PURPOSE STRIP MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :DIFFUSED ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	TYPE 'AE' SIMILAR TO TYPE 'A' EXCEPT WITH EMERGENCY BATTERY BACK-UP EQUIP. RMS, TRASH RM, LEASE SPACE
A2	LED 3500K 3000LM/80CRI 23W	LITHONIA (OR APPROVED OTHER)	FEML48 SERIES	TYPE :4" ENCLOSED INDUSTRIAL MOUNTING :SURFACE HOUSING :POLYCARBONATE LENS/REFL :CLEAR POLYCARBONATE VOLTAGE :MVOLT BALLAST :LED DRIVER	WALL MOUNT AT +7"-0" AFF IN ROOF TERRACE MECH. ROOM. ELEVATOR PIT & TOP OF SHAFT
B1 ②	LED 3000K 2152LM/80CRI 18.7W	LITHONIA (OR APPROVED OTHER)	WL4 20LP835 SERIES	TYPE :4" WRAP AROUND MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	PROVIDE WITH INTEGRAL OCCUPANCY SENSOR, DIM50 STANDBY MODE STAIRWELLS
B2	LED 3000K 3000LM/80CRI 20W	LITHONIA (OR APPROVED OTHER)	CLXL48 SERIES	TYPE :4" WRAP AROUND MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :WIDE DIFFUSED VOLTAGE :MVOLT BALLAST :LED DRIVER	WIDE DISTRIBUTION STANDARD OUTPUT BIKE ROOM
B3	LED 3000K 3000LM/80CRI 28W	LITHONIA (OR APPROVED OTHER)	CLXL36 SERIES	TYPE :3" WRAP AROUND MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :WIDE DIFFUSED VOLTAGE :MVOLT BALLAST :LED DRIVER	STANDARD OUTPUT ELEVATOR MACHINE ROOM
△ C1a/b ① ③	LED 3000K/90CRI 127LM/FT 2W/FT	ECOSENSE (OR APPROVED OTHER)	TROV L35I SERIES	TYPE :LED COVE LIGHT MOUNTING :SURFACE (IN COVE) HOUSING :ALUMINUM LENS/REFL :CLEAR POLYCARBONATE/SNAP ON VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING-ELV)	C1a = 2FT LENGTH C1b = 4FT LENGTH MAIN LOBBY △
C2	LED 650LM/80CRI 3000K 10W	LIGHTOLIER (OR APPROVED OTHER)	SSR SERIES	TYPE :5" DIA. DOWNLIGHT MOUNTING :SURFACE (J-BOX) HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING)	FINISH PER ARCHITECT. UL LISTED DAMP LOCATION RESTROOMS, DOG WASH
C3	LED 1000LM/80CRI 3000K 11W	LIGHTOLIER (OR APPROVED OTHER)	L4R SERIES	TYPE :4" DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :ACRYLIC/CLEAR DIFFUSE VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING)	IC RATED FINISH PER ARCHITECT. LOBBY, CORRIDORS
C4	LED 1500LM/80CRI 3000K 13W	LIGHTOLIER (OR APPROVED OTHER)	L5R SERIES	TYPE :5" DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :ACRYLIC/CLEAR DIFFUSE VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING)	IC RATED FINISH PER ARCHITECT. CORRIDORS
△ C5	LED 650LM/80CRI 3000K 8W	LIGHTOLIER (OR APPROVED OTHER)	L4RA SERIES	TYPE :4" DIA. ADJ.DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING)	IC RATED FIELD AIM PER ARCHITECT'S DIRECTION FINISH PER ARCHITECT. LOBBY, CORRIDOR
△ C6a/b ③	LED 3000K/90CRI 327LM/FT 4W/FT	ECOSENSE (OR APPROVED OTHER)	TROV L35I SERIES	TYPE :LED COVE LIGHT MOUNTING :SURFACE (IN COVE) HOUSING :ALUMINUM LENS/REFL :CLEAR POLYCARBONATE/SNAP ON VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING-ELV)	C1a = 2FT LENGTH C1b = 4FT LENGTH RESIDENTIAL CORRIDORS

LIGHTING FIXTURE LIST – DECORATIVE					
TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
LF1	LED 330LM/FT 3000K 3W/FT	KELVIX (OR APPROVED OTHER)	PH30K 24V W/ CH409 CHANNEL	TYPE :UNDER CABINET LIGHT MOUNTING :SURFACE HOUSING :ALUMINUM CHANNEL LENS/REFL :WHITE ACRYLIC LENS VOLTAGE :24V BALLAST :LED DRIVER 0-10 DIMMING	TAPE & CHANNEL TO MOUNT AT UNDER- SIDE OF SHELF. CONSULT WITH INTERIOR DECORATOR'S DETAILS AND COORDINATE INSTALLATION. COFFEE BAR, COMMUNITY RM
LF2	LED 3000K/90CRI 5040LM 56W	KUZCO (OR APPROVED OTHER)	EEREIE PR19347 SERIES	TYPE :LINEAR PENDANT MOUNTING :SUSPENDED HOUSING :ALUMINUM LENS/REFL :OPAL SILICON VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING/ELV)	FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR MAIL ROOMS
LF3		NOT USED		TYPE : MOUNTING : HOUSING : LENS/REFL : VOLTAGE : BALLAST :	
LF4	LED 3000K 850LM/90CRI 9W	USAI LIGHTING (OR APPROVED OTHER)	B3RDM SERIES	TYPE :3" DIA DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :SOLITE VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING)	45 DEGREE BEAM SPREAD PROVIDE WITH USAI POWER SUPPLY BLACK BEVEL TRIM & MILLWORK FLANGE IC RATED BLDG A COFFEE BAR
LF5	(8) JCD/G9 LED 3000K/80CRI	ARTORAFT LIGHTING (OR APPROVED OTHER)	AVENTURA SERIES	TYPE :LARGE PENDANT MOUNTING :SUSPENDED HOUSING : LENS/REFL : VOLTAGE :120V BALLAST :LED DRIVER (0/10 DIMMING)	FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR BLDG B LOBBY
LF6	(1) LED LAMP (MED. BASE) 3000K/80CRI 8W	SUN VALLEY BRONZE (OR APPROVED OTHER)	HUDPEND-2000 SERIES	TYPE :SMALL PULLEY PENDANT MOUNTING :SUSPENDED HOUSING :UNKNOWN LENS/REFL :N/A VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING)	BLACK PATINE FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR. BLDG B LOUNGE
LF7	(1) G9 LED 3000K 220LM/80CRI 4W	ANDLight (OR APPROVED OTHER)	ORB-P SERIES	TYPE :PENDANT MOUNTING :SUSPENDED HOUSING :STEEL WIRE LENS/REFL :ETCHED GLASS VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING)	BLACK FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR RESTROOM
LF8	(3) LED LAMPS (MED. BASE) 3000K/80CRI 225W	TROY LIGHTING (OR APPROVED OTHER)	HENDRIX F6886 SERIES	TYPE :CHANDELIER MOUNTING :SUSPENDED HOUSING :UNKNOWN LENS/REFL :N/A VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING)	BLACK IRON FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR BLDG A CLUBROOM
LF9	(1) GU10 LED 3000K/80CRI 9W	RESTORATION HARDWARE (OR APPROVED OTHER)	ORBITER II 68830997 SERIES	TYPE :SCONCE MOUNTING :SURFACE HOUSING :UNKNOWN LENS/REFL :N/A VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING)	BRONZE FINISH PER MOUNTING HEIGHT PER INTERIOR DECORATOR BLDG A CLUBROOM
LF10		NOT USED		TYPE : MOUNTING : HOUSING : LENS/REFL : VOLTAGE : BALLAST :	
LF11	LED 3000K/90CRI 780LM 13W	KUZCO LIGHTING (OR APPROVED OTHER)	WS83218 SERIES	TYPE :SCONCE MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :OPAL GLASS VOLTAGE :120V BALLAST :LED DRIVER (DIMMING)	VERIFY ADA COMPLIANT BLACK FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR TYPICAL UNIT ENTRY
LF12	LED 3000K/80CRI 500LM/FT 9.4W/FT	NULITE (OR APPROVED OTHER)	RP14-B-FF SERIES	TYPE :8FT DIRECT/INDIRECT LINEAR MOUNTING :SUSPENDED HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING)	60% DOWN-40% UP DISTRIBUTION MOUNT AT 10FT AFF TO BOTTOM OF FIXTURE. STANDARD WHITE FINISH BIKE ROOMS BLDG B FITNESS ROOM
LF13		NOT USED		TYPE : MOUNTING : HOUSING : LENS/REFL : VOLTAGE : BALLAST :	
LF14	LED 3000K/80CRI 1300LM 16W	KUZCO (OR APPROVED OTHER)	FM11410 SERIES	TYPE :9" DIA DOWNLIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING/ELV)	BLACK FINISH PER INTERIOR DECORATOR BLDG A WOOD CEILINGS
LF15		NOT USED		TYPE : MOUNTING : HOUSING : LENS/REFL : VOLTAGE : BALLAST :	
LF16	(1) G9 LED (WEDGE BASE) 3000K/80CRI 13W	HUDSON VALLEY LIGHTING (OR APPROVED OTHER)	8701-AGB SERIES	TYPE :WALL SCONCE MOUNTING :SURFACE HOUSING :ALUMINUM LENS/REFL :GLASS VOLTAGE :120V BALLAST :LED DRIVER (DIMMING)	FINISH PER INTERIOR DECORATOR. MOUNTING HEIGHT PER INTERIOR DECORATOR. BLDG A LOBBY, CLUB RM/BLDG B LOBBY

GENERAL NOTES:

- A. ALL LIGHT FIXTURES SHALL HAVE ENERGY EFFICIENT LAMPING AND BALLASTS.
- B. LIGHT FIXTURES FOR LIVING UNITS SHALL BE "ENERGY STAR" RATED.
- C. EXTERIOR LIGHT FIXTURES SHALL BE "NIGHT SKY" FRIENDLY.
- D. VERIFY ALL FIXTURE FINISHES WITH ARCHITECT PRIOR TO BID.
- E. VERIFY ALL FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO BID.
- F. VERIFY ALL FIXTURE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH IN.
- △

G. ALL INTERIOR LIGHTING SHALL BE 3000 KELVIN UNLESS OTHERWISE NOTED.
- H. ALL PRODUCT SUBSTITUTIONS AND VALUE ENGINEERING SHALL BE SUBMITTED DURING BID PHASE, SHALL MEET DESIGN INTENT AND IS SUBJECT TO OWNER APPROVAL.
- I. CONTRACTOR SHALL CONSULT MANUFACTURER INSTALLATION INSTRUCTIONS FOR ALL FIXTURES AND DEVICES AND INSTALL AS INSTRUCTED. THIS INCLUDES ALL ELECTRICAL COMPONENTS REQUIRED FOR COMPLETE INSTALLATION. WORK SHALL BE PERFORMED SUCH THAT MANUFACTURER WARRANTY IS NOT VOIDED.
- J. THE ELECTRICAL CONTRACTOR SHALL CONSULT THE INTERIOR DESIGN PLAN SET FOR ALL FINISHES, MOUNTING HEIGHTS AND OTHER INSTALLATION REQUIREMENTS REGARDING THE "LF" LIGHT FIXTURES LISTED IN THE FIXTURE SCHEDULE ON THIS SHEET.
- △

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

L. BUILDING MOUNTED EXTERIOR WALL SCONCES, TYPE S3b, TO BE CONTROLLED VIA PHOTOCELL AND BE PROVIDED WITH A TIME CLOCK TO REDUCE LIGHT OUTPUT BY 30% DURING LATE NIGHT TO REDUCE REFLECTANCE INTO TENANT LIVING UNITS. FIXTURES DESIGNATED TO BE EGRESS SHALL BE BE WIRED SUCH THAT IN THE EVENT OF A POWER OUTAGE, THE LIGHTS AUTOMATICALLY RETURN TO FULL OUTPUT. TIME CLOCK SETTINGS TO BE DETERMINED BY THE OWNER.

KEYED LIGHTING NOTES:

1. CONTRACTOR TO DETERMINE FIXTURE LENGTH BASED ON ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING PLANS. DESIGN INTENT IS FOR THE FIXTURE TO RUN THE ENTIRE LENGTH OF THE "COVE" TO PROVIDE EVEN LIGHT DISTRIBUTION.
2. STAIRWELL AND BOH CORRIDOR LIGHT FIXTURES TO BE EQUIPPED WITH FACTORY INSTALLED (OR REMOTE) OCCUPANCY SENSORS FOR MIN. 50% LIGHT REDUCTION DURING PERIODS OF NO ACTIVITY.
- △

3. MAXIMUM RUN LENGTH FOR SPECIFIED COVE LIGHT FIXTURE IS (186) 4FT UNITS. MULTIPLE RUNS SHALL BE CIRCUITED AS NOTED ON THE PLANS. CONTRACTOR SHALL PROVIDE THE APPROPRIATE MOUNTING AND CONNECTING HARDWARE PER MANUFACTURER'S REQUIREMENTS. CONSULT VENDOR FOR ADDITIONAL INSTALLATION INFORMATION.
- △

4. CONTRACTOR TO PROVIDE ALL REQUIRED COMPONENTS FOR COMPLETE INSTALL. 24V FIXTURE TRANSFORMER/POWER SUPPLY TO BE LOCATED IN THE CABINET BELOW THE SHELVING.
5. CONTRACTOR TO PROVIDE SINGLE POLE DIMMER SWITCHES AS INDICATED ON SHEETS E4.01-E4.03. DIMMER SWITCHES SHALL MATCH THE DECORATOR TYPE ROCKER SWITCH SPECIFIED IN THE TYPICAL UNIT LIGHTING PLANS OR AS DIRECTED BY THE OWNER. DIMMER SWITCHES SHALL BE COMPATIBLE WITH THE LED LIGHT FIXTURES AND SHALL BE FULLY ADJUSTABLE. CONTRACTOR SHALL FIELD ADJUST TO REDUCE ANY MOMENTARY FLASH DURING START UP.
- △

6. PROVIDE BLOCKING AT CEILING TO SUPPORT 35LB., MINIMUM, FOR CEILING FAN INSTALLATION. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. PROVIDE FIXTURE CONTROL SWITCH(ES) AS DIRECTED BY MANUFACTURER.
- △

7. PROVIDE WITH WEATHER PROOF J-BOX FOR SOIL CONTACT.
- △

8. VERIFY MOUNTING HEIGHT OF FIXTURES IS NOT IN CONFLICT WITH ROOM EQUIPMENT.
- △

9. BOLLARD LIGHTS ALONG THE BUILDING WALKWAYS SHALL BE INSTALLED SUCH THAT ANY PROJECTION FACES AWAY FROM THE BUILDING.
- △

10. LED TAPE & CHANNEL LIGHTS AT EXTERIOR PLAZA SHALL BE MOUNTED AS DIRECTED BY THE LANDSCAPE ARCHITECT. CONTRACTOR TO PROVIDE ALL REQUIRED COMPONENTS FOR COMPLETE INSTALL.
- △

11. CONTRACTOR TO SUPPLY AND INSTALL BACK-LIT VANITY MIRROR. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT AND SIZE OF THE BACK-LIT VANITY MIRROR FOR EACH UNIT TYPE. MIRROR TO BE HARDWIRED INTO A RECESSED J-BOX. CONSULT ARCHITECT FOR ANY ADDITIONAL INFORMATION REGARDING THESE FIXTURES.

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3

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IN THE EVENT CONFLICTS ARE DISCOVERED
BETWEEN THE ORIGINAL SIGNED AND SEALED
DOCUMENTS PREPARED BY THE ARCHITECTS
AND/OR THEIR CONSULTANTS, AND ANY COPY OF
THE DOCUMENTS TRANSMITTED BY MAIL, FAX,
ELECTRONICALLY OR OTHERWISE, THE ORIGINAL
SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 2017-053
DATE: 11/06/2019

- REVISIONS
- △

PLAN REVIEW 01.24.2020
- △

PLAN REVIEW 03.13.2020
- △

PLAN REVIEW 04.24.2020
- △

PLAN REVIEW 08.10.2020
- △

PLAN REVIEW 09.17.2020

AEGIS
MIXED-USE DEVELOPMENT
312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

SHEET:

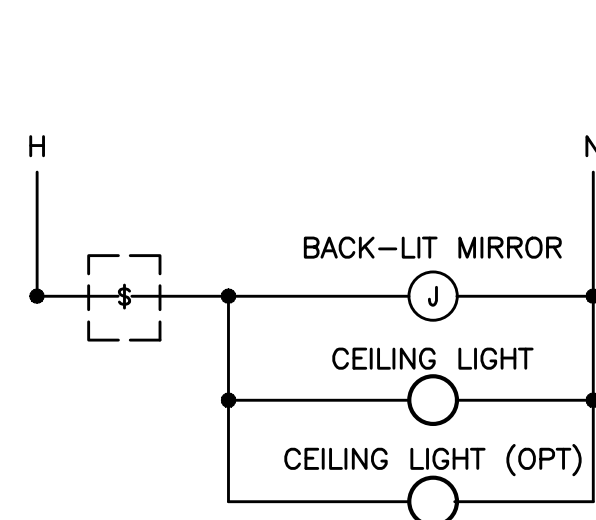
E1.21

LIGHTING FIXTURE LIST – SITE & EXTERIOR

TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
LS1 ⑦	LED 3000K 100LM 3W	DALS LIGHTING (OR APPROVED OTHER)	LEDSTEP005D SERIES	TYPE :STEP LIGHT (+10" AFF) :RECESSED HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :120V BALLAST :LED DRIVER (DIMMING)	VERIFY UL LISTED FOR WET LOCATION FINISH PER ARCHITECT. VERIFY EXACT LOCATION WITH LANDSCAPE DESIGNER PRIOR TO ROUGH IN. ROOF TERRACE
LS2 ⑩	LED 3000K 500LM/FT 5W/FT	JESCO LIGHTING (OR APPROVED OTHER)	DL-AC-FLEX SERIES	TYPE :LED COVE LIGHT MOUNTING :SURFACE (CHANNEL) HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :120V BALLAST :LED DRIVER (DIMMING)	MOUNT UNDER COUNTER TOP EDGE. VERIFY EXACT LENGTH BEFORE ORDERING VERIFY EXACT LOCATION WITH LANDSCAPE DESIGNER PRIOR TO ROUGH IN. UL LISTED FOR WET LOCATION ROOF TERRACE
LS3	LED 3000K 342LM 8W	BEGA LIGHTING (OR APPROVED OTHER)	33-054 SERIES	TYPE :LED STEP LIGHT MOUNTING :RECESSED HOUSING :ALUMINUM LENS/REFL :TEMPERED GLASS VOLTAGE :120V BALLAST :LED DRIVER	VERIFY EXACT LENGTH BEFORE ORDERING VERIFY EXACT LOCATION AND MOUNTING WITH LANDSCAPE DESIGNER PRIOR TO ROUGH IN. UL LISTED FOR WET LOCATION ROOF TERRACE, PLAZA
S1 ⑨	LED 3000K 855LM 8W	LIGMAN LIGHTING (OR APPROVED OTHER)	PRAGUE SERIES UPRA-10002	TYPE :40" BOLLARD LIGHT MOUNTING :AT GRADE HOUSING :ALUMINUM LENS/REFL :TEMPERED GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER	PROVIDE WITH PHOTOCELL, EITHER INTEGRAL OR REMOTE. TYPE II DISTRIBUTION. MOUNT PER MFR'S REQUIREMENTS UL LISTED WET LOCATION/VERIFY ADA BUILDING WALKWAYS
S2	LED 3000K 5500LM 49W	LITHONIA LIGHTING (OR APPROVED OTHER)	DSXO P2 SERIES	TYPE :AREA LIGHT (SINGLE/TWIN HEAD) MOUNTING :POLE MOUNT (+20'-0") HOUSING : LENS/REFL : VOLTAGE :MVOLT BALLAST :LED DRIVER	TYPE III MEDIUM DISTRIBUTION INTEGRAL PHOTOCELL PARKING AREA
S3a	LED 3000K 975LM 14W	USAI LIGHTING (OR APPROVED OTHER)	BEVELED 1020 SERIES	TYPE :4.5" DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :ALUMINUM LENS/REFL :SOLITE VOLTAGE :MVOLT BALLAST :LED DRIVER	UL LISTED WET LOCATION CUSTOM FINISH TO MATCH METAL SOFFIT BLACK OR BRONZE FINISH PER ARCHITECT MAIN BUILDING ENTRANCES
S3b	LED 3000K 650LM 10W	BEGA LIGHTING (OR APPROVED OTHER)	66-655 SERIES	TYPE :EXTERIOR SCONCE MOUNTING :SURFACE (+8'-0" AFG) HOUSING :ALUMINUM LENS/REFL :TEMPERED GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER	20 DEGREE BEAM ANGLE. FIXTURE SHALL BE DOWNLIGHT ONLY. FIXTURES LOCATED AT ROOF TERRACE MOUNT AT 7'-0" AFF. BLACK OR BRONZE FINISH PER ARCHITECT BUILDING EXTERIOR, ROOF TERRACE
S4	LED 3000K 1000LM 14W	LIGHTOLIER LIGHTING (OR APPROVED OTHER)	S7R SERIES	TYPE :7" DIA. DOWNLIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	BLACK OR BRONZE FINISH PER ARCHITECT UL LISTED WET LOCATION BUILDING EXTERIOR
S5	LED 3000K 2450LM 22W	GARDCO LIGHTING (OR APPROVED OTHER)	PWS SERIES	TYPE :EXTERIOR WALL PACK MOUNTING :SURFACE (+8'-0") HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	TYPE III DISTRIBUTION BUILDING SERVICE ENTRANCES
S6	LED 3000K 1000LM 15W	ALCON LIGHTING (OR APPROVED OTHER)	11235 DIR-15 SERIES	TYPE :5" DIA EXTERIOR CYLINDER MOUNTING :SURFACE HOUSING :ALUMINUM LENS/REFL :CLEAR TEMPERED GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER	60 DEGREE WIDE FLOOD UL LISTED WET LOCATION ROOF TERRACE
S7	LED 3500K 1000LM 10W	EMERGENSEE LIGHTING (OR APPROVED OTHER)	SEEUJ SERIES	TYPE :EXTERIOR EMERGENCY LIGHT MOUNTING :MULLION MOUNTED HOUSING :ALUMINUM LENS/REFL : VOLTAGE :MVOLT BALLAST :LED DRIVER	DARK BRONZE FINISH PER ARCHITECT UL LISTED WET LOCATION LEASE SPACE STOREFRONT

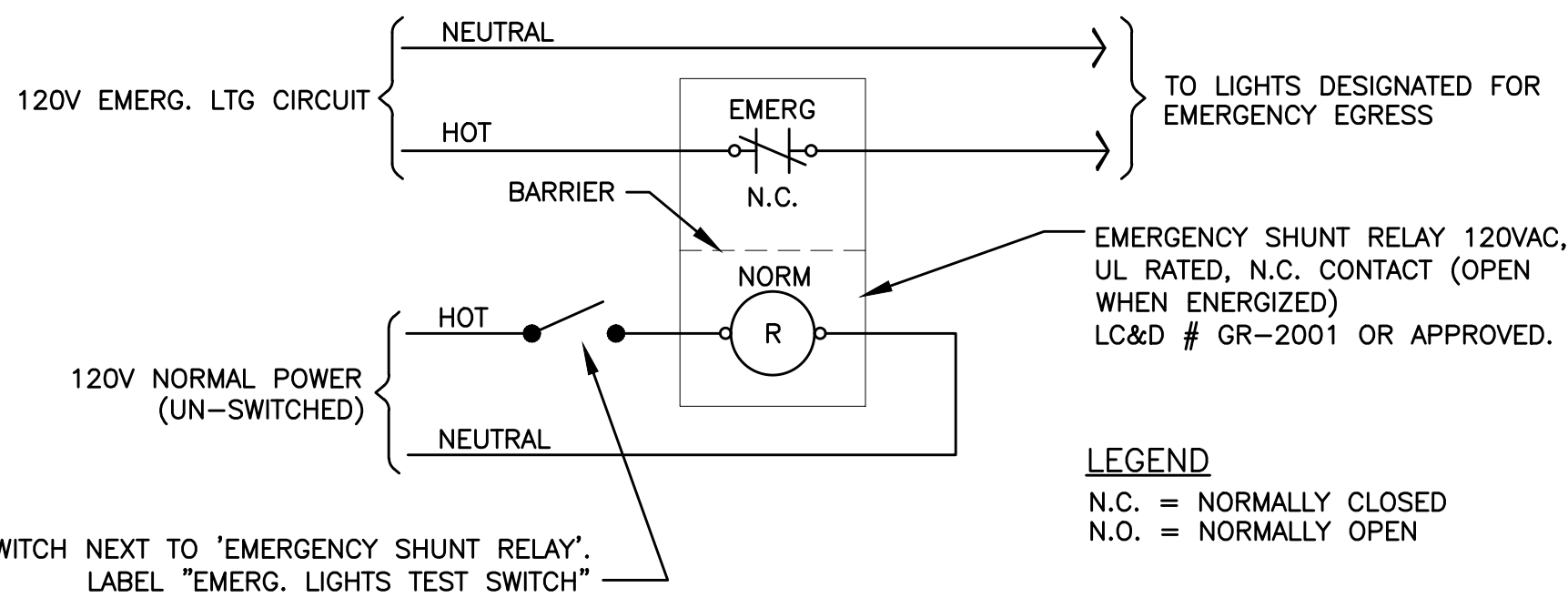
LIGHTING NOTES:

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



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

2
E1.22
NO SCALE
BATHROOM SWITCHING DIAGRAMS – TYPICAL



LEGEND
N.C. = NORMALLY CLOSED
N.O. = NORMALLY OPEN

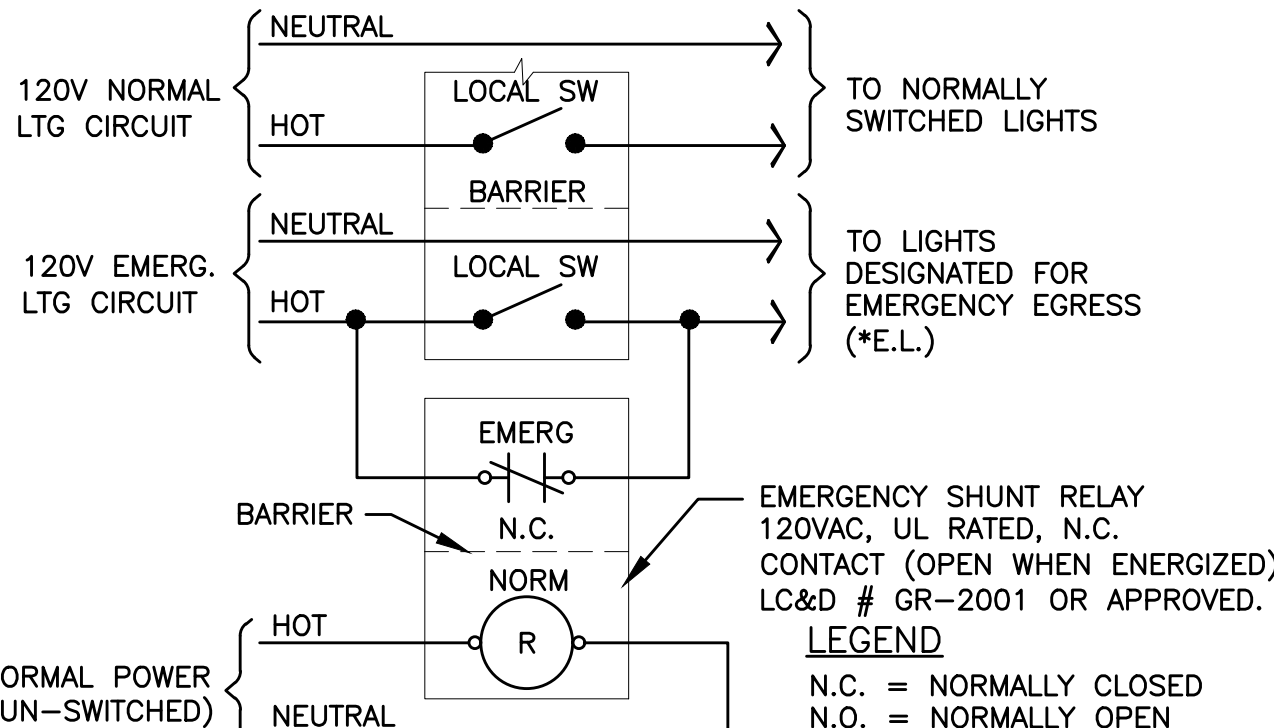
3
E1.22
NO SCALE
EMERGENCY EGRESS LIGHTING – UNSWITCHED

LIGHTING FIXTURE LIST – EXITING

TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
'X1'	LED (GREEN LETTERS) (1.5W)	LITHONIA DMF LIGHTING (OR APPROVED OTHER)	LE EL N SERIES DLED500EM-G	TYPE :EXIT SIGN MOUNTING :UNIVERSAL HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE FACE/DUAL FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	
X2		NOT USED		TYPE : MOUNTING : HOUSING : LENS/REFL : VOLTAGE : BALLAST :	
'X3'	LED (GREEN LETTERS) (3.5W)	LITHONIA (OR APPROVED OTHER)	WLTE EL SERIES BLACK FINISH	TYPE :EXIT SIGN MOUNTING :UNIVERSAL HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	UL LISTED WET LOCATION
'X4'	LED (GREEN LETTERS) (3.5W)	LITHONIA (OR APPROVED OTHER)	LRE SERIES	TYPE :EXIT SIGN MOUNTING :RECESSED HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	MOUNTED CENTERED ABOVE DOOR UNLESS OTHERWISE NOTED.
'X5'	LED (GREEN LETTERS) (3.5W)	EATON (OR APPROVED OTHER)	EUX SERIES	TYPE :EXIT SIGN MOUNTING :SURFACE HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	SURFACE MOUNT AT STOREFRONT MULLION
'X6'	LED (GREEN LETTERS) (3.5W)	EATON (OR APPROVED OTHER)	EUX SERIES	TYPE :EXIT SIGN MOUNTING :SURFACE HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE/DOUBLE FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	SURFACE MOUNT AT CEILING

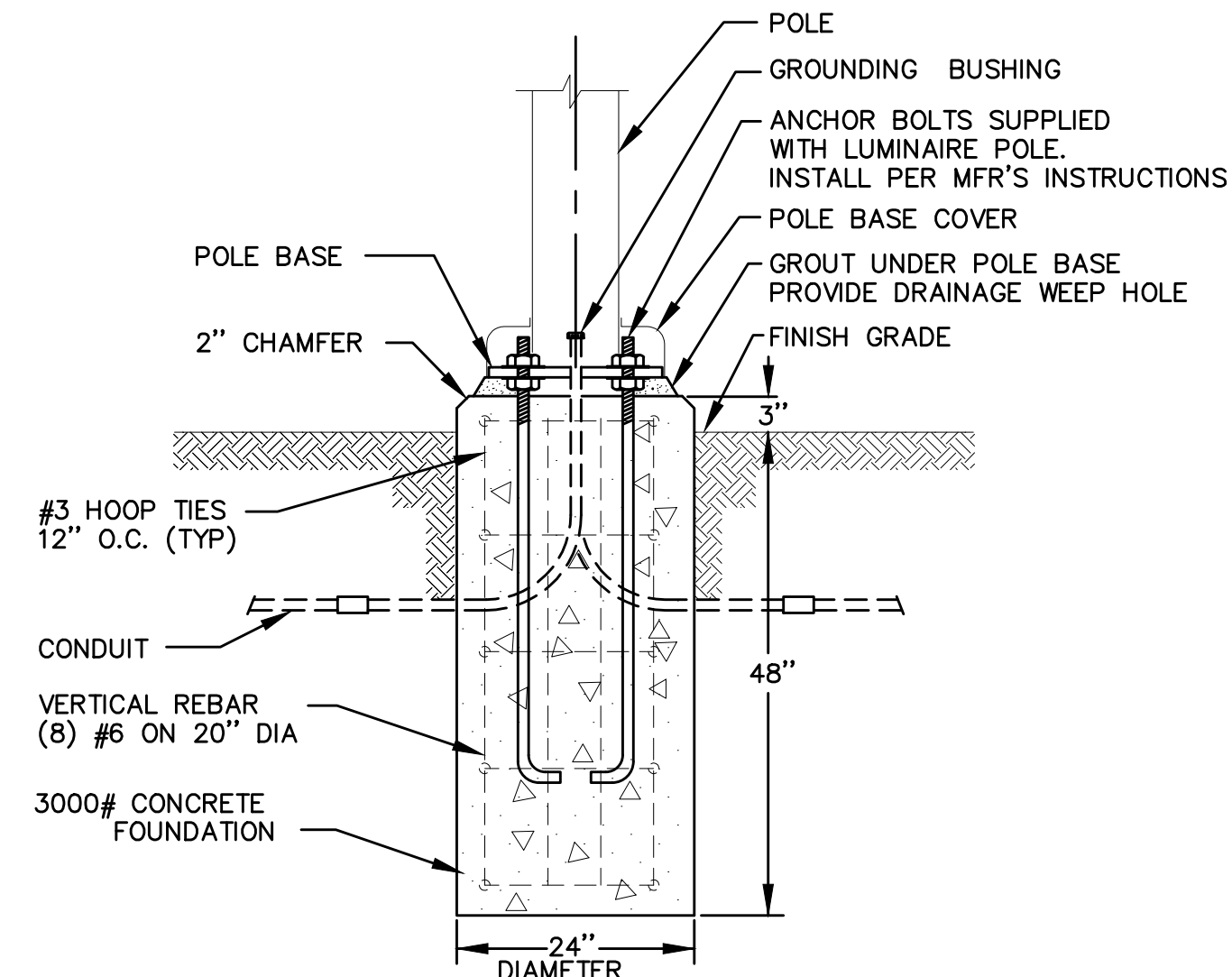
LIGHTING FIXTURE LIST – TYPICAL LIVING UNITS

TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
U1 ⑤	LED 650 LM 3000K 10W	LIGHTOLIER (OR APPROVED OTHER)	SSR SERIES	TYPE :5" DIA. DOWNLIGHT MOUNTING :SURFACE (J-BOX) HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT. UNIT KITCHEN, HALL
U2	LED 750 LUMEN 3000K (18W)	KUZCO LIGHTING (OR APPROVED OTHER)	FM3511 SERIES	TYPE :11" DIA. CEILING LIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :GLASS VOLTAGE :120V BALLAST :LED DRIVER	FINISH PER ARCHITECT. UNIT DINING
U3	LED 3000K 200LM 5W	WAC LIGHTING (OR APPROVED OTHER)	HR-LED90 SERIES	TYPE :UNDER CABINET LIGHT MOUNTING :SURFACE HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :24V BALLAST :LED DRIVER (ELV DIMMING)	FINISH PER ARCHITECT. UNIT KITCHEN
U4 ⑥	(1) 18W LED 1400LM/90CRI 3000K 35W	FANTIMATION (OR APPROVED OTHER)	HUGH 52 SERIES	TYPE :52" CEILING FAN W/ LIGHT KIT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :120V BALLAST :LAMP W/INTEGRAL LED DRIVER	WHITE FINISH PROVIDE BRACING AT CEILING TO SUPPORT A MINIMUM OF 35 LBS. PROVIDE W/ MODEL #WC2WH CONTROL SWITCH UNIT BEDROOM
U5 ⑪	LED 3000K --W	MAJESTIC MIRROR (NO SUBSTITUTE)	ARGYLE SERIES	TYPE :BACK-LIT MIRROR (VARIOUS SIZES) MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :MIRROR/ACRYLIC VOLTAGE :120V BALLAST :INTEGRAL LED DRIVER	REFER TO ARCHITECTURAL ELEVATIONS FOR SIZE & MOUNTING AT EACH UNIT TYPE. PROVIDE RECESSED POWER CONNECTION PER MFR INSTALLATION REQUIREMENTS UNIT BATHROOM

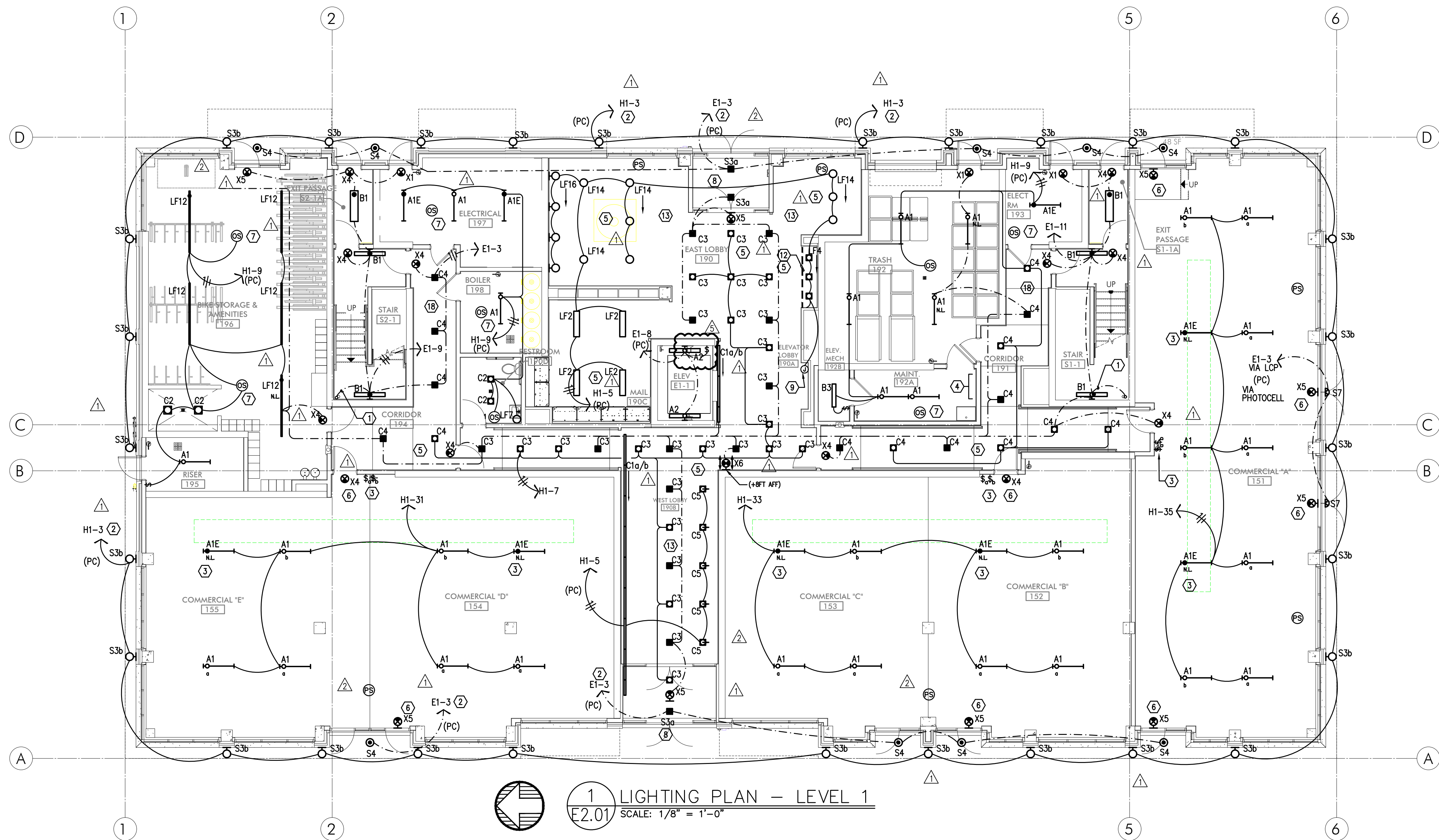


LEGEND
N.C. = NORMALLY CLOSED
N.O. = NORMALLY OPEN

4
E1.22
NO SCALE
EMERGENCY EGRESS LIGHTING – SWITCHED



2
E1.21
NO SCALE
TYPICAL POLE BASE DETAIL



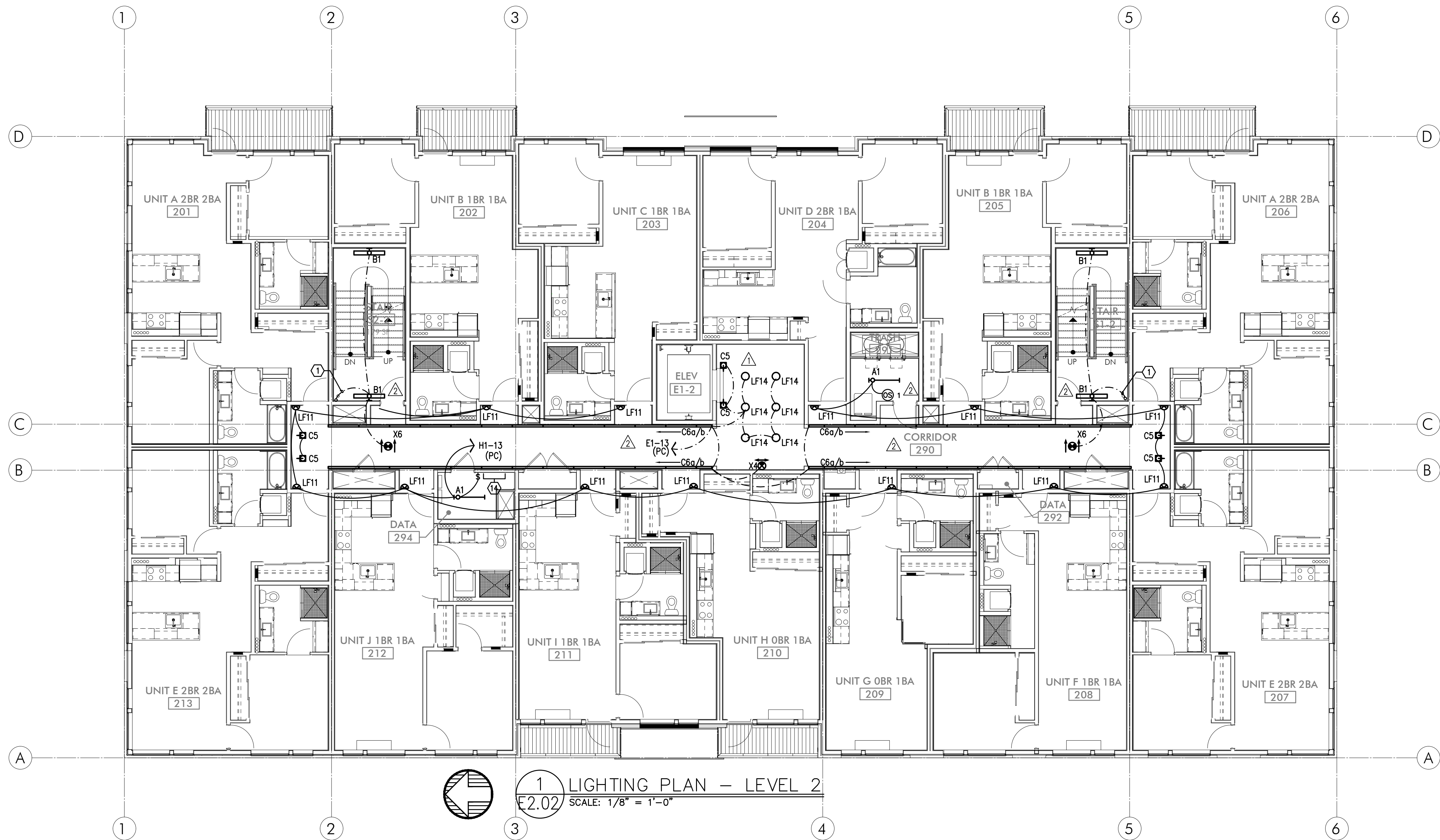
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- THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL & INTERIOR DESIGN DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.**
- REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE RESIDENTIAL UNITS.
- REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULE.
- THE CONTRACTOR SHALL CONSULT THE ARCHITECT AND/OR INTERIOR DESIGNER FOR THE EXACT LOCATION OF ALL LIGHT FIXTURES PRIOR TO THE START OF ANY ROUGH IN WORK
- REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.
- OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.
- PROVIDE DIGITAL LIGHTING CONTROLS FOR EACH ROOM/SPACE, CONSISTING OF MULTI-BUTTON SWITCH(ES), OCC SENSORS, POWER PACKS, DAYLIGHT SENSORS, DIMMERS, INTERCONNECTING WIRING, ETC.
- CORRIDOR LIGHTING TO BE CONSTANT "ON" AND PROVIDED WITH LOCAL MANUAL OVERRIDE SWITCHES FOR MAINTENANCE. REFER TO SHEET E1.22 FOR SWITCH WIRING DIAGRAMS.
- REFER TO SHEET E1.23 FOR LIGHTING CONTROL DIAGRAMS AND DESIGN INTENT. VERIFY LIGHTING CONTROLLABILITY WITH ARCHITECT AND/OR OWNER'S REPRESENTATIVE TO DETERMINE EXACT NEEDS FOR ALL PUBLIC/COMMON AREAS SUCH AS LOBBIES, OFFICES, LOUNGE AREAS, ETC., PRIOR TO THE START OF ANY WORK.
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KEYED NOTES:

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- LIGHTING CONTROL FOR LOBBY, CORRIDOR & COMMON SPACES. REFER TO DETAIL #1, SHEET E1.23 FOR MORE INFORMATION.
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- PROVIDE POWER CONNECTION FOR COVE LIGHTING AT ALL WALL NICHES TO WALL WASH ART INSTALLATIONS. REFER TO INTERIOR DECORATOR'S INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION REGARDING LENGTH & LOCATION. REFER TO SHEET NOTE #4 FOR INFORMATION REGARDING LIGHTING CONTROL.
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- PROVIDE FIXTURE TYPE LF1 UNDER SHELF LIGHTING PER INTERIOR DECORATOR'S DIRECTION. PROVIDE CIRCUITING AND SWITCHING AS INDICATED. TYPICAL FOR TWO SHELVES. REFER TO FIXTURE SCHEDULE ON E1.21 AND DETAIL #4 ON E1.17 FOR MORE INFORMATION.
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- CIRCUIT SERVICE CORRIDOR LIGHT FIXTURES AHEAD OF SWITCHED FIXTURES ON SAME CIRCUIT. CORRIDOR LIGHT FIXTURES TO BE CONSTANT 'ON'.

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STUDIO

3

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EXPIRES: July 5th, 2020

IN THE EVENT CONFLICTS ARE DISCOVERED
BETWEEN THE ORIGINAL SIGNED AND SEALED
DOCUMENTS PREPARED BY THE ARCHITECTS
AND/OR THEIR CONSULTANTS, AND ANY COPY OF
THE DOCUMENTS TRANSMITTED BY MAIL, FAX,
ELECTRONICALLY OR OTHERWISE, THE ORIGINAL
SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 2017-053
DATE: 11/06/2019

REVISIONS

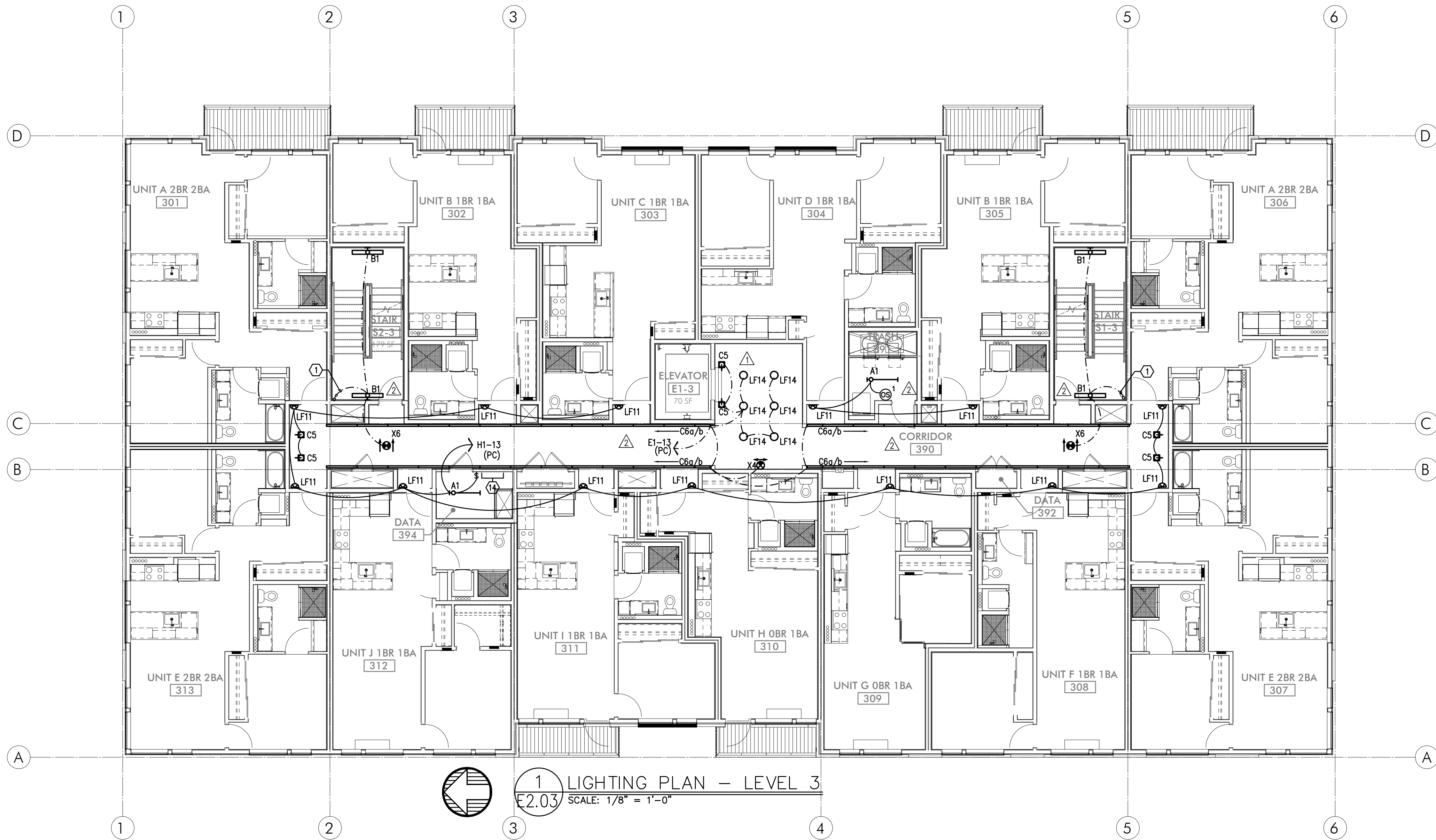
- | REVISIONS | DATE |
|-------------|------------|
| PLAN REVIEW | 01.24.2020 |
| PLAN REVIEW | 03.13.2020 |
| PLAN REVIEW | 04.24.2020 |
| PLAN REVIEW | 08.10.2020 |
| PLAN REVIEW | 09.17.2020 |

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SHEET:

A
E2.02



1 LIGHTING PLAN - LEVEL 3
E2.03 SCALE: 1/8" = 1'-0"

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- COORDINATE EXACT LOCATION OF LIGHT FIXTURES WITH ARCHITECT PRIOR TO ROUGH IN.
- CIRCUIT SERVICE CORRIDOR LIGHT FIXTURES AHEAD OF SWITCHED FIXTURES ON SAME CIRCUIT. CORRIDOR LIGHT FIXTURES TO BE CONSTANT 'ON'.

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EXPIRES: July 5th, 2020

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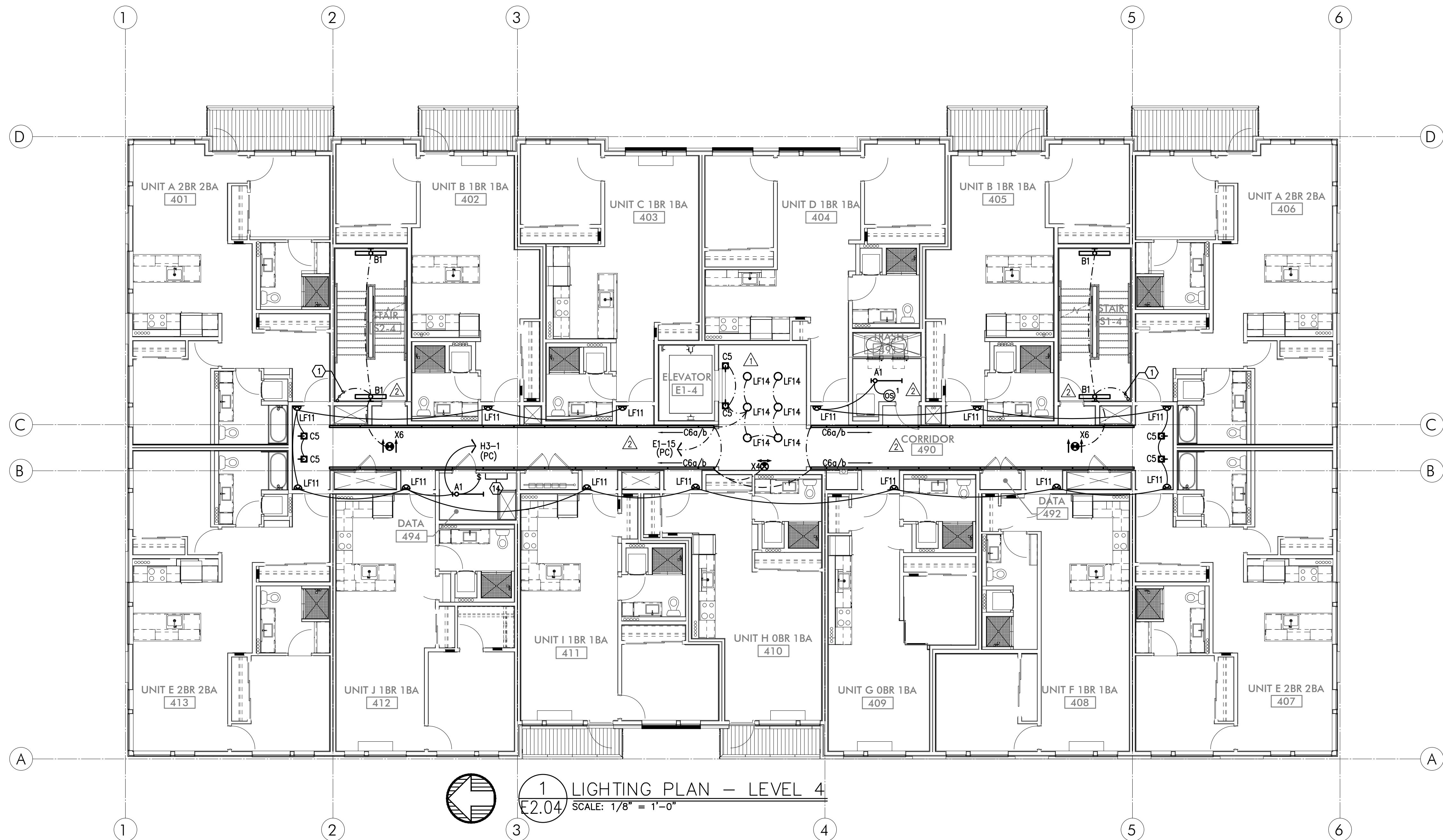
PROJECT # 2017-053
DATE: 11/06/2019

REVISIONS

- | NO. | REVISION | DATE |
|-----|-------------|------------|
| 1 | PLAN REVIEW | 01.24.2020 |
| 2 | PLAN REVIEW | 03.13.2020 |
| 3 | PLAN REVIEW | 04.24.2020 |
| 4 | PLAN REVIEW | 08.10.2020 |
| 5 | PLAN REVIEW | 09.17.2020 |

SHEET:

A
E2.03



1 LIGHTING PLAN – LEVEL 4
E2.04 SCALE: 1/8" = 1'-0"

GENERAL LIGHTING NOTES:

- ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL & INTERIOR DESIGN DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE RESIDENTIAL UNITS.
- REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULE.
- THE CONTRACTOR SHALL CONSULT THE ARCHITECT AND/OR INTERIOR DESIGNER FOR THE EXACT LOCATION OF ALL LIGHT FIXTURES PRIOR TO THE START OF ANY ROUGH IN WORK
- REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.
- OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.
- PROVIDE DIGITAL LIGHTING CONTROLS FOR EACH ROOM/SPACE, CONSISTING OF MULTI-BUTTON SWITCH(ES), OCC SENSORS, POWER PACKS, DAYLIGHT SENSORS, DIMMERS, INTERCONNECTING WIRING, ETC.
- CORRIDOR LIGHTING TO BE CONSTANT "ON" AND PROVIDED WITH LOCAL MANUAL OVERRIDE SWITCHES FOR MAINTENANCE. REFER TO SHEET E1.22 FOR SWITCH WIRING DIAGRAMS.
- REFER TO SHEET E1.23 FOR LIGHTING CONTROL DIAGRAMS AND DESIGN INTENT. VERIFY LIGHTING CONTROLLABILITY WITH ARCHITECT AND/OR OWNER'S REPRESENTATIVE TO DETERMINE EXACT NEEDS FOR ALL PUBLIC/Common AREAS SUCH AS LOBBIES, OFFICES, LOUNGE AREAS, ETC., PRIOR TO THE START OF ANY WORK.
- THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.
- ALL EGRESS FIXTURES SHALL BE WIRED SUCH THAT IN THE EVENT OF A POWER FAILURE, ALL LIGHTS WILL AUTOMATICALLY RETURN TO FULL POWER. REFER TO SWITCHING DETAILS ON SHEET E1.22.

KEYED NOTES:

- CONTINUE CIRCUIT UP THROUGH THE STAIRWELL.
- EXTERIOR BUILDING LIGHTS TO BE CONTROLLED VIA INTEGRAL AND/OR REMOTE PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E1.21-E1.22 FOR ADDITIONAL INFORMATION.
- LEASE SPACE LIGHTING TO HAVE DUAL SWITCHES. ONE TO CONTROL NORMAL POWER LIGHTS AND ONE TO ACT AS A MANUAL OVERRIDE FOR NIGHT LIGHT FIXTURES (NL). INTENT IS THAT THE NIGHT LIGHTS ARE TO BE "ON" 24/7 AND ONLY ILLUMINATED AT NIGHT VIA PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. NIGHT LIGHT FIXTURES SHALL ALSO BE EQUIPPED WITH EMERGENCY BATTERY BACKUP IN THE EVENT OF A POWER FAILURE. ALL LIGHT FIXTURES IN THE LEASE SPACE ARE TO BE ON A SINGLE CIRCUIT AND TEMPORARILY FED FROM THE HOUSE PANEL
- LIGHTING CONTROL FOR LOBBY, CORRIDOR & COMMON SPACES. REFER TO DETAIL #1, SHEET E1.23 FOR MORE INFORMATION.
- LIGHTING CONTROLS FOR THIS AREA LOCATED IN THE MAINTENANCE ROOM. SEE SHEET NOTE #4 FOR MORE INFORMATION.
- TIE INTO TEMPORARY LIGHTING CIRCUIT AND ENSURE BATTERY BACK UP POWER FOR EGRESS.
- LIGHT FIXTURES IN THIS SPACE CONTROLLED BY CEILING MOUNT OCCUPANCY SENSOR.
- FIXTURE FINISH TO MATCH SOFFIT METAL.
- PROVIDE POWER CONNECTION FOR COVE LIGHTING AT ALL WALL NICHES TO WALL WASH ART INSTALLATIONS. REFER TO INTERIOR DECORATOR'S INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION REGARDING LENGTH & LOCATION. REFER TO SHEET NOTE #4 FOR INFORMATION REGARDING LIGHTING CONTROL.
- REFER TO DETAIL #3, SHEET E1.23 FOR CLUBROOM LIGHTING CONTROL ASSIGNMENT.
- PROVIDE PHOTOCELL FOR DAY-LIGHT REDUCTION OF LIGHT LEVELS.
- PROVIDE FIXTURE TYPE LF1 UNDER SHELF LIGHTING PER INTERIOR DECORATOR'S DIRECTION. PROVIDE CIRCUITING AND SWITCHING AS INDICATED. TYPICAL FOR TWO SHELVES. REFER TO FIXTURE SCHEDULE ON E1.21 AND DETAIL #4 ON E1.17 FOR MORE INFORMATION.
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EXPIRES: July 5th, 2020

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EXPIRES: July 6th, 2020

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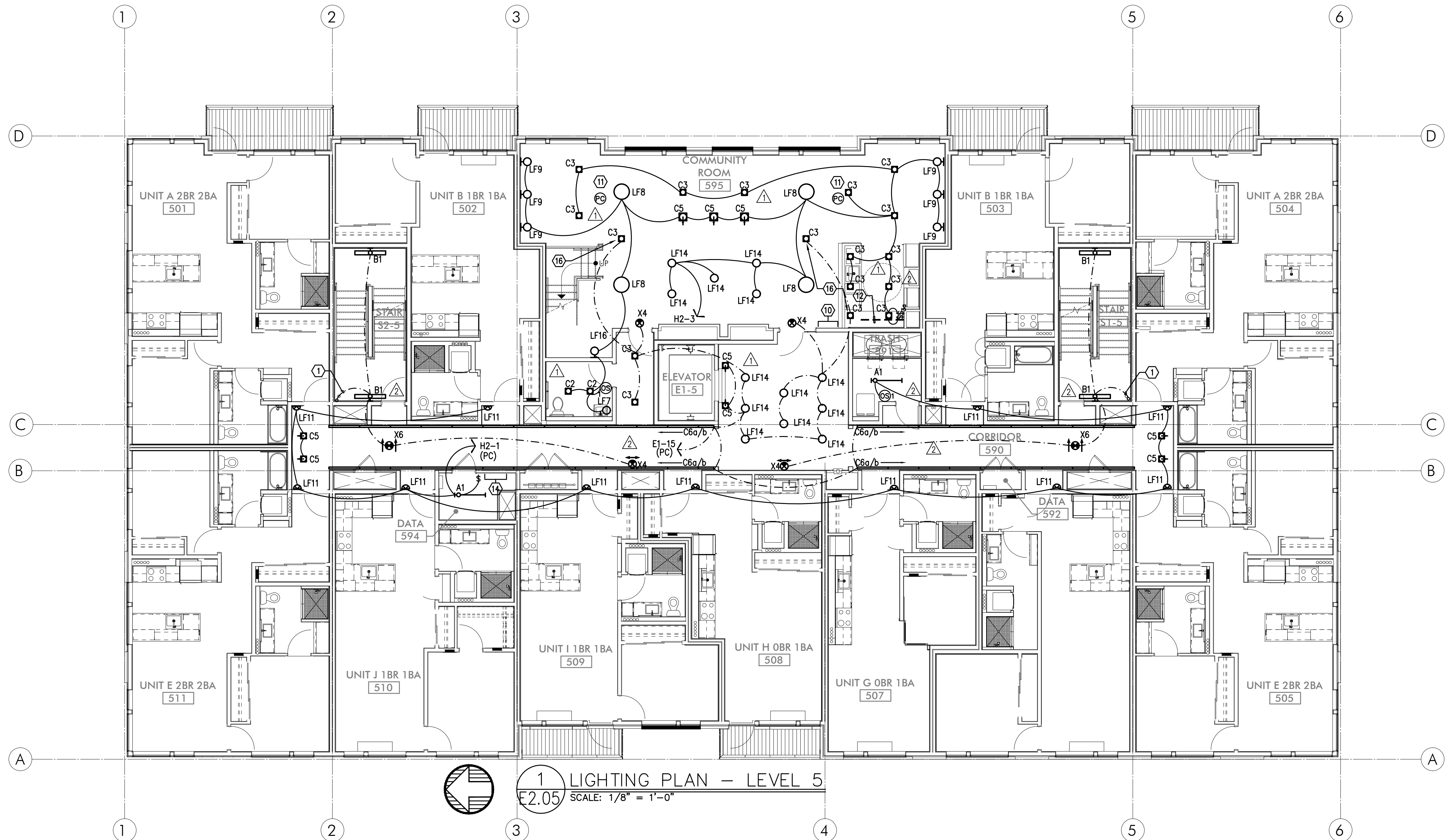
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SHEET:

A E2.05

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1 LIGHTING PLAN — LEVEL 5
E2.05 SCALE: 1/8" = 1'-0"

GENERAL LIGHTING NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL & INTERIOR DESIGN DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- C. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE RESIDENTIAL UNITS.
- D. REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULE.
- E. THE CONTRACTOR SHALL CONSULT THE ARCHITECT AND/OR INTERIOR DESIGNER FOR THE EXACT LOCATION OF ALL LIGHT FIXTURES PRIOR TO THE START OF ANY ROUGH IN WORK
- F. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.
- G. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.
- H. PROVIDE DIGITAL LIGHTING CONTROLS FOR EACH ROOM/SPACE, CONSISTING OF MULTI-BUTTON SWITCH(ES), OCC SENSORS, POWER PACKS, DAYLIGHT SENSORS, DIMMERS, INTERCONNECTING WIRING, ETC.
- I. CORRIDOR LIGHTING TO BE CONSTANT "ON" AND PROVIDED WITH LOCAL MANUAL OVERRIDE SWITCHES FOR MAINTENANCE. REFER TO SHEET E1.22 FOR SWITCH WIRING DIAGRAMS.
- J. REFER TO SHEET E1.23 FOR LIGHTING CONTROL DIAGRAMS AND DESIGN INTENT. VERIFY LIGHTING CONTROLLABILITY WITH ARCHITECT AND/OR OWNER'S REPRESENTATIVE TO DETERMINE EXACT NEEDS FOR ALL PUBLIC/Common AREAS SUCH AS LOBBIES, OFFICES, LOUNGE AREAS, ETC., PRIOR TO THE START OF ANY WORK.
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- L. ALL EGRESS FIXTURES SHALL BE WIRED SUCH THAT IN THE EVENT OF A POWER FAILURE, ALL LIGHTS WILL AUTOMATICALLY RETURN TO FULL POWER. REFER TO SWITCHING DETAILS ON SHEET E1.22.

KEYED NOTES:

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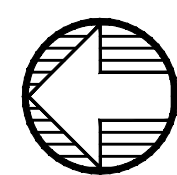
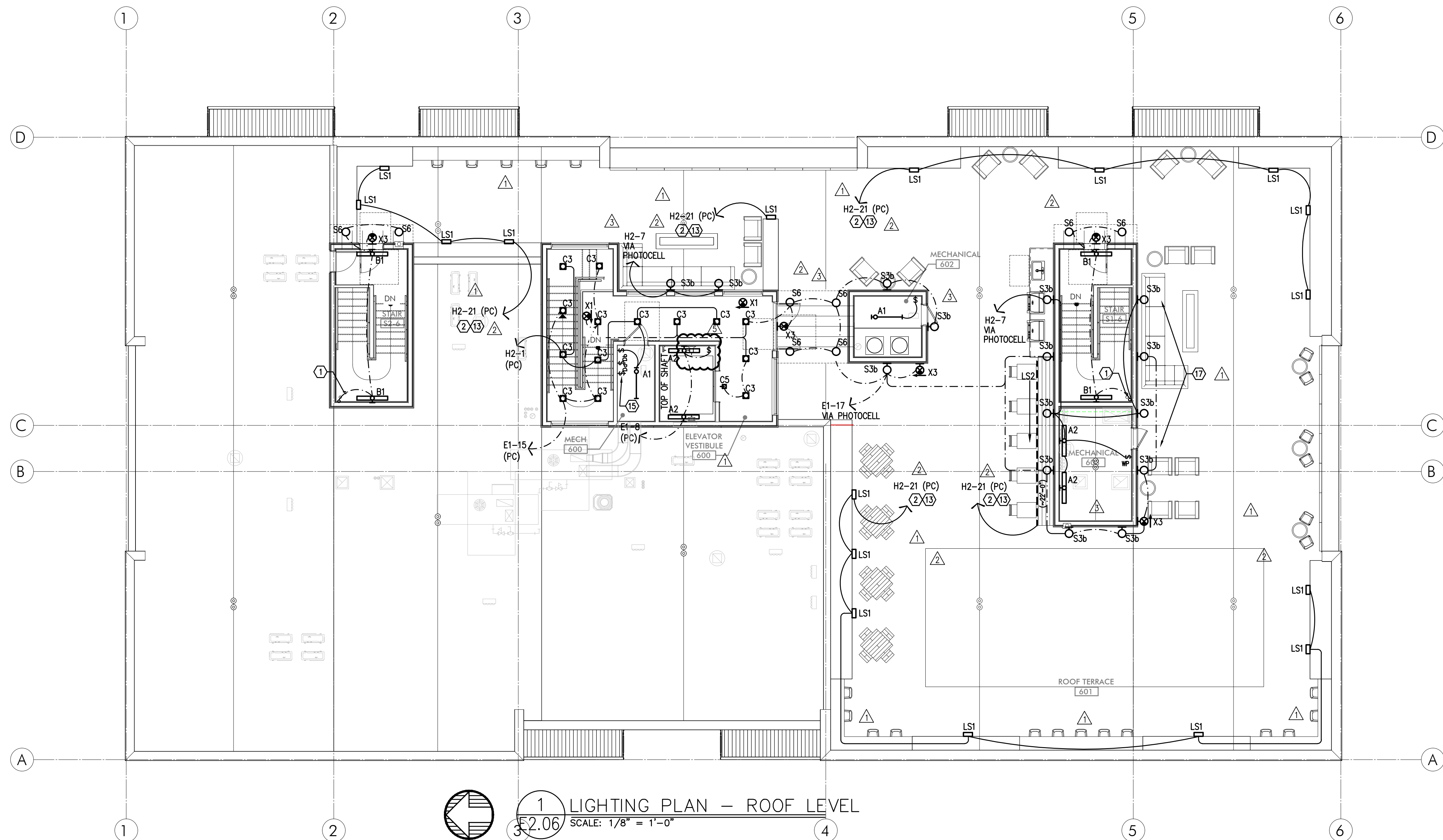
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SHEET:

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E2.06



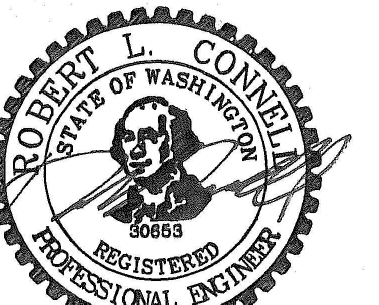
1 LIGHTING PLAN – ROOF LEVEL
E2.06 SCALE: 1/8" = 1'-0"

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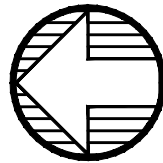
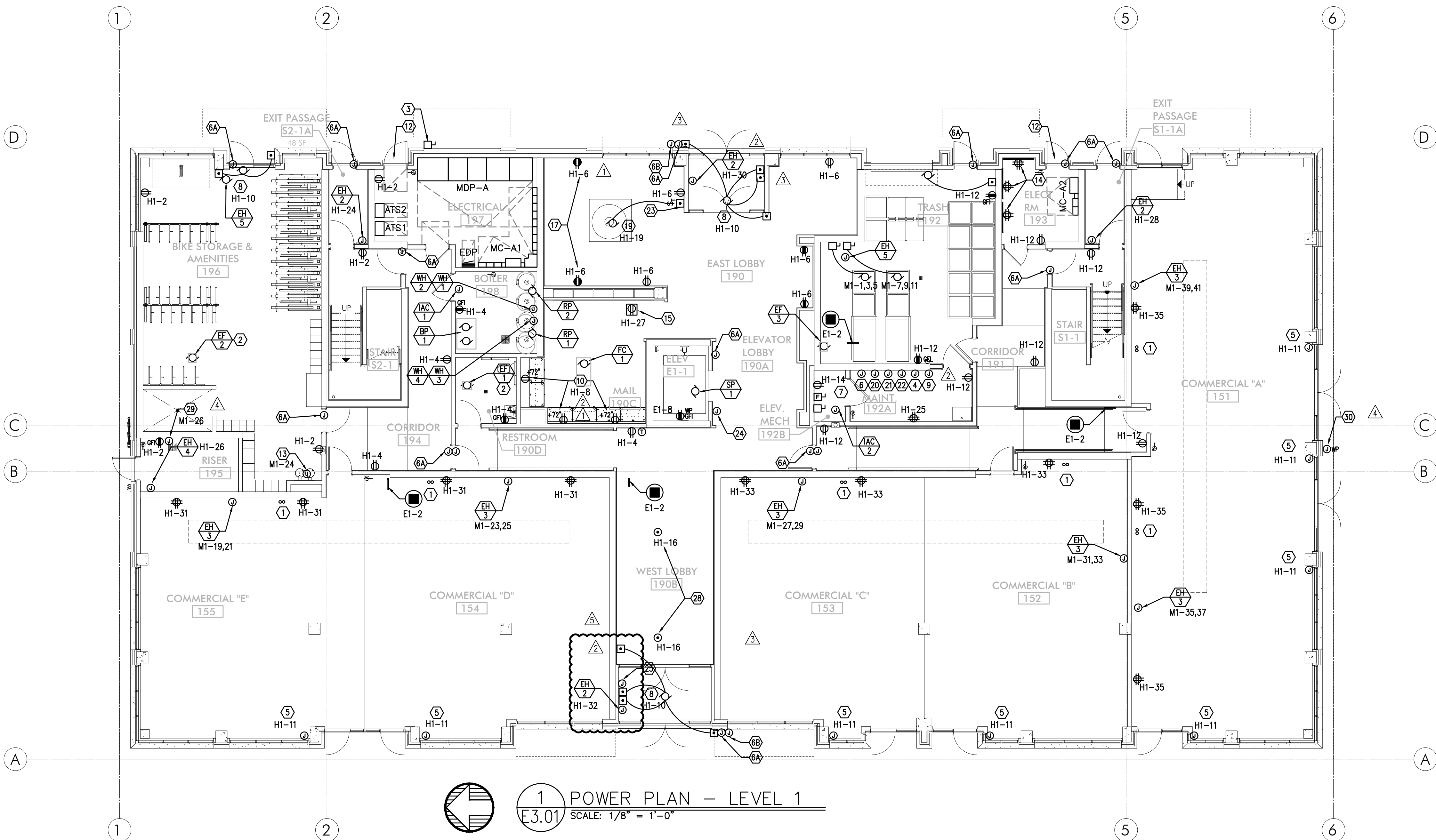
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312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

SHEET:

A E3.01

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1 POWER PLAN - LEVEL 1
E3.01 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 CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.
- G. REFER TO INTERIOR DECORATOR AND/OR ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATION(S) AND ELEVATIONS OF FIXTURES & DEVICES. OTHER DEVICES SHOWN ON THE ELECTRICAL PLANS AND NOT INDICATED ON THE DECORATOR'S OR ARCHITECT'S DRAWINGS, SHALL BE INSTALLED AT STANDARD MOUNTING HEIGHT AS INDICATED THE SYMBOL LIST.
- H. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS.
- I. ELECTRICAL EQUIPMENT SHOWN IN THE ELECTRICAL ROOMS IS APPROXIMATE, BASED ON TYPICAL PRODUCTS. CONTRACTOR SHALL VERIFY ANY SUBMITTED EQUIPMENT WILL FIT WITHIN THE SPACE PROVIDED, PRIOR TO PRODUCT SUBMITTAL REVIEW.
- J. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LOW VOLTAGE ("T" SERIES) PLANS, INCLUDING FIRE ALARM AND SYSTEMS INSTALLER, AND PROVIDE ROUGH IN AS NEEDED.
- K. THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.

KEYED NOTES:

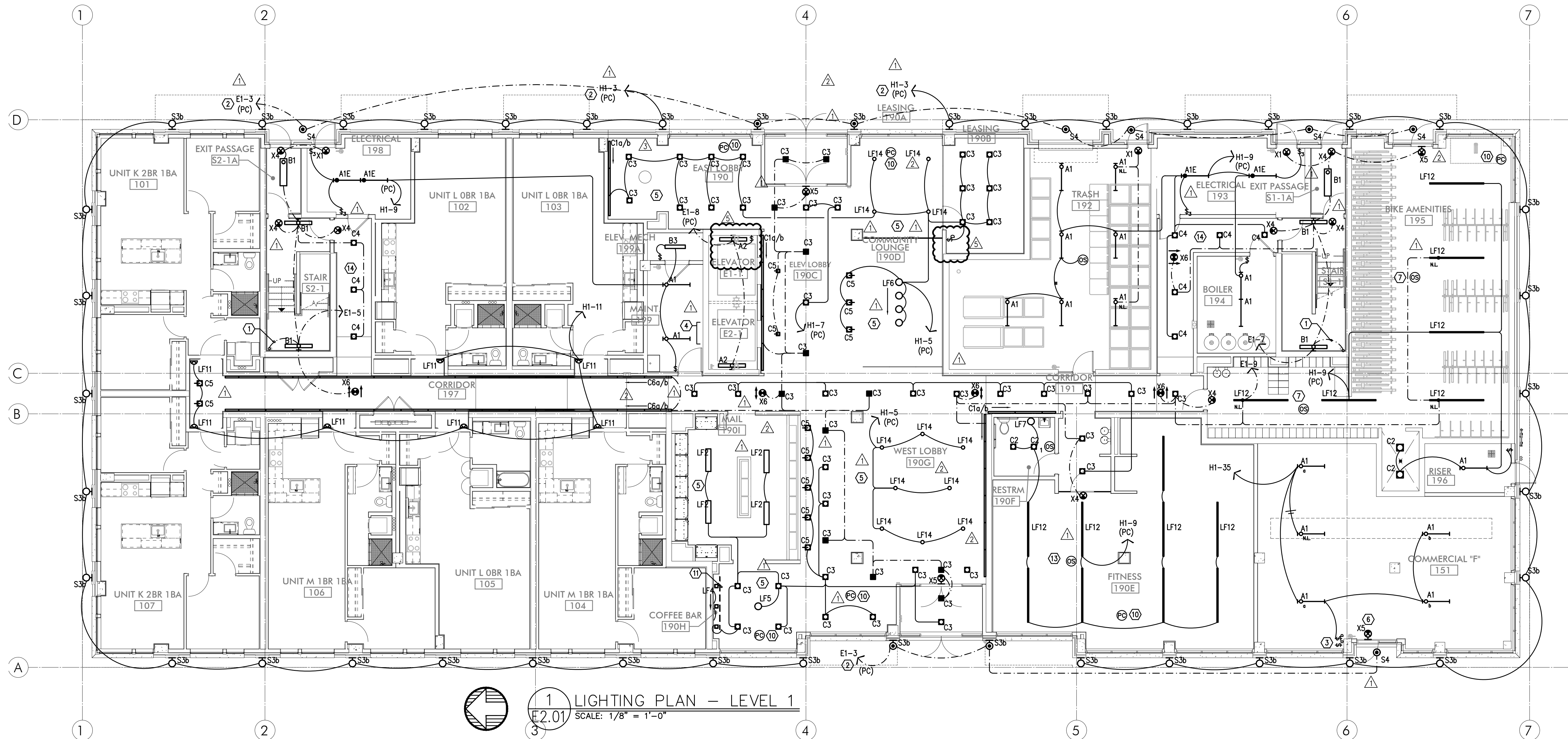
1. ROUTE (2) EMPTY 3 1/2" CONDUIT WITH PULL STRING, FROM MC-A2 IN CEILING ABOVE AND STUBBED INTO LEASE SPACE FOR TENANT SUPPLIED BRANCH PANEL AND CAP OFF.
2. CONTINUOUS OPERATING EXHAUST FAN TO BE TIED INTO LIGHTING CIRCUIT FOR THIS AREA.
3. GENERATOR DISCONNECT. SEE ONE-LINE DIAGRAM ON SHEET E1.11.
4. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR GENERATOR REMOTE ANNUNCIATOR. FED FROM PANEL E1, CKT 23.
5. PROVIDE ONE 20A, 120V, 1P POWER CONNECTION FOR TENANT BUILDING SIGNS. CIRCUIT AS INDICATED VIA LIGHTING CONTROL PANEL. MOUNT JUNCTION BOX TIGHT TO CEILING (AT BUILDING INTERIOR), COORDINATING EXACT LOCATION WITH SIGN INSTALLER'S SLEEVE AND PER ARCHITECT'S DIRECTION AT EACH LOCATION.
6. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 22 FOR BUILDING ENTRY ACCESS CONTROL SYSTEM AND PROVIDE ROUGH IN AND WIRING TO ACCESS POINTS LOCATED ON PLANS. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE "T" SERIES SHEETS FOR ADDITIONAL INFORMATION.
- 6A. ENTRY ACCESS POINT.
- 6B. APARTMENT CALL DIRECTORY.
7. VERIFY ELEVATOR EQUIPMENT LOCATION AND ELECTRICAL REQUIREMENTS WITH ARCHITECT AND/OR ELEVATOR PROVIDER.
8. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 10 FOR AUTOMATIC DOOR OPENERS.
9. PROVIDE ONE 20A, 120V, 1P DEDICATED CIRCUIT FROM PANEL H1, CKT 29 FOR DAS SYSTEM.
10. PACKAGE CONCIERGE SYSTEM. MOUNT DUPLEX RECEPTACLES AT 76" AFF. CIRCUIT AS INDICATED.
11. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR A/V SYSTEM CONTROL, FROM PANEL H2, CKT 15. CONSULT INTERIORS GROUP FOR EXACT LOCATION. COORDINATE WITH SYSTEM INSTALLER FOR EXACT REQUIREMENTS.
12. ELECTRICAL SERVICE METER ROOMS SHALL HAVE OUTWARD SWING DOORS EQUIPPED WITH PANIC HARDWARE. PROVIDE A KEY BOX AT THE EXTERIOR FOR CLARK PUBLIC UTILITIES 24/7 ACCESS.
13. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR DRINKING FOUNTAIN FROM PANEL M1, CKT 24. CONSULT MECHANICAL AND/OR PLUMBING CONTRACTOR FOR EXACT ELECTRICAL REQUIREMENTS PRIOR TO ROUGH IN.
14. LOW VOLTAGE/COMMUNICATIONS SYSTEM DEMARCATION BOARD(S). COORDINATE LOCATIONS AND ELECTRICAL POWER REQUIREMENTS WITH THE TELECOM PLANS ("T" SERIES SHEETS) AND LOW VOLTAGE SYSTEMS INSTALLERS, AND PROVIDE ROUGH IN AND/OR FINAL ELECTRICAL POWER CONNECTIONS & DEVICES. REFER PANEL 'H1' SCHEDULE ON E1.13 FOR CIRCUITS.
15. CEILING MOUNTED 20A DUPLEX RECEPTACLE FOR SECURITY CAMERA. CONSULT ARCHITECT FOR ADDITIONAL INFORMATION. CIRCUIT AS INDICATED.
16. DEDICATED SHAFT FOR THE ROUTING OF ELECTRICAL FEEDERS FROM TENANT METERS TO RESIDENTIAL UNITS.
17. PROVIDE RECEPTACLE WITH TYPES A & C USB PORTS, LEVITON T5633-T OR APPROVED EQUAL.
18. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL E1, CKT 18 FOR ELEVATOR SMOKE CURTAINS. SMOKE CURTAINS ARE TO BE SMOKE GUARD SYSTEM MODEL 200 AND SHALL BE INSTALLED AT EACH ELEVATOR LOBBY. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE INSTALLATION WITH THE EQUIPMENT PROVIDER/INSTALLER FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO ROUGH IN. EACH SMOKE CURTAIN SHALL BE INTERLINKED WITH THE NEAREST SMOKE DETECTOR AT EACH LOCATION.
19. CONSULT ARCHITECT AND/OR MECHANICAL PLANS FOR ADDITIONAL INFORMATION REGARDING THE FIREPLACE. PROVIDE ELECTRICAL CONNECTION(S) AS NEEDED FROM PANEL H1, CKT 19. PROVIDE 120V TWIST TIMER SWITCH (MAX. 60 MINUTES, "NO HOLD") FOR FIREPLACE IGNITER CONTROLS. INTERCONNECT WITH POWER VENT LOCATED ON ROOF.
20. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 15 FOR THE APARTMENT ENTRY SYSTEM PRIMARY CONTROL PANEL AND PROVIDE ROUGH IN AND WIRING, AS NEEDED, TO EACH UNIT ENTRY. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE "T" SERIES SHEETS FOR ADDITIONAL INFORMATION.
21. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 27 FOR THE SECURITY SYSTEM PANEL AND PROVIDE ROUGH IN AND WIRING, AS NEEDED. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE "T" SERIES SHEETS FOR ADDITIONAL INFORMATION.
22. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL E1, CKT 19 FOR THE FIRE ALARM CONTROL PANEL. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE "T" SERIES SHEETS FOR ADDITIONAL INFORMATION.
23. PROVIDE EMERGENCY SHUTOFF CONTROLS FOR GAS APPLIANCES. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. CIRCUIT FROM PANEL 'E1'. SEE DETAIL 5/E1.22 FOR EMERGENCY SHUT-OFF DIAGRAM.
24. AREA OF REFUGE PANEL. CONSULT FIRE ALARM PLANS ("T" SERIES SHEETS) AND PROVIDE ROUGH IN AS NEEDED.
25. PROVIDE ROUGH IN, AS NEEDED, FOR FIRE ALARM REMOTE ANNUNCIATION PANEL.
26. PROVIDE ROUGH IN, AS NEEDED, FOR AUDIO SYSTEM CONTROLS. COORDINATE EXACT LOCATION WITH THE SYSTEM INSTALLER.
27. PROVIDE ROUGH IN, AS NEEDED, FOR WIFI SYSTEM.
28. CONSULT ARCHITECT/INTERIORS PLANS TO VERIFY EXACT LOCATION OF FLOOR BOX DEVICES PRIOR TO ROUGH IN.
29. PROVIDE ONE 20A, 120V CIRCUIT, FROM PANEL 'M1' FOR IRRIGATION CONTROLS. COORDINATE WITH LANDSCAPING FOR EXACT POWER REQUIREMENTS AND LOCATION PRIOR TO ROUGH IN.
30. PROVIDE ONE 20A, 120V CIRCUIT, FROM PANEL 'H1' FOR LANDSCAPE LIGHTING EQUIPMENT CONNECTION. REFER TO E1.02 FOR MORE INFORMATION. COORDINATE WITH LANDSCAPING FOR EXACT POWER REQUIREMENTS AND LOCATION PRIOR TO ROUGH IN.

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- ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.
- THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL & INTERIOR DESIGN DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE RESIDENTIAL UNITS.
- REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULE.
- THE CONTRACTOR SHALL CONSULT THE ARCHITECT AND INTERIOR DESIGNER FOR ALL FIXTURE LOCATIONS PRIOR TO THE START OF ANY ROUGH IN WORK
- REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.
- OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.
- PROVIDE DIGITAL LIGHTING CONTROLS FOR EACH ROOM/SPACE, CONSISTING OF MULTI-BUTTON SWITCH(ES), OCC SENSORS, POWER PACKS, DAYLIGHT SENSORS, DIMMERS, INTERCONNECTING WIRING, ETC.
- THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.
- ALL EGRESS FIXTURES SHALL BE WIRED SUCH THAT IN THE EVENT OF A POWER FAILURE, ALL LIGHTS WILL AUTOMATICALLY RETURN TO FULL POWER. REFER TO SWITCHING DETAILS ON SHEET E1.22.

KEYED NOTES:

- CONTINUE CIRCUIT UP THROUGH THE STAIRWELL.
- EXTERIOR BUILDING LIGHTS TO BE CONTROLLED VIA INTEGRAL AND/OR REMOTE PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E1.21-E1.22 FOR ADDITIONAL INFORMATION.
- LEASE SPACE LIGHTING TO HAVE DUAL SWITCHES. ONE TO CONTROL NORMAL POWER LIGHTS AND ONE TO ACT AS A MANUAL OVERRIDE FOR NIGHT LIGHT FIXTURES (NL). INTENT IS THAT THE NIGHT LIGHTS ARE TO BE "ON" 24/7 AND ONLY ILLUMINATED AT NIGHT VIA PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. NIGHT LIGHT FIXTURES SHALL ALSO BE EQUIPPED WITH EMERGENCY BATTERY BACKUP IN THE EVENT OF A POWER FAILURE. ALL LIGHT FIXTURES IN THE LEASE SPACE ARE TO BE ON A SINGLE CIRCUIT AND TEMPORARILY FED FROM THE HOUSE PANEL.
- LIGHTING CONTROL FOR LOBBY, CORRIDOR & COMMON SPACES. REFER TO DETAIL #1, SHEET E1.23 FOR MORE INFORMATION.
- LIGHTING CONTROLS FOR THIS AREA LOCATED IN THE MAINTENANCE ROOM. SEE SHEET NOTE #4 FOR MORE INFORMATION.
- TIE INTO TEMPORARY LIGHTING CIRCUIT AND ENSURE BATTERY BACK UP POWER FOR EGRESS.
- BIKE ROOM LIGHT FIXTURES CONTROLLED BY CEILING MOUNT OCCUPANCY SENSOR.
- FIXTURE FINISH TO MATCH SOFFIT METAL.
- PROVIDE POWER CONNECTION FOR COVE LIGHTING AT ALL WALL NICHES TO WALL WASH ART INSTALLATIONS. REFER TO INTERIOR DECORATOR'S INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION REGARDING LENGTH, LOCATIONS AND CONTROL TYPE TO BE INSTALLED. USE FIXTURE TYPE 'C1' AND TIE INTO LOBBY LIGHTING CIRCUIT H1-5.
- PROVIDE CEILING MOUNTED PHOTOCELL TO PROVIDE DIMMING OF LIGHT FIXTURES DURING DAYLIGHT PERIODS.
- PROVIDE FIXTURE TYPE LF1 UNDER SHELF LIGHTING PER INTERIOR DECORATOR'S DIRECTION. PROVIDE CIRCUITING AND SWITCHING AS INDICATED. TYPICAL FOR TWO SHELVES. REFER TO FIXTURE SCHEDULE ON E1.21 AND DETAIL #4 ON E1.17 FOR MORE INFORMATION.
- TYPICAL LIGHTING CONTROL FOR RESIDENTIAL CORRIDORS. REFER TO DETAIL #2, SHEET E1.23 FOR MORE INFORMATION.
- FITNESS ROOM LIGHT FIXTURES SHALL BE CONTROLLED VIA OCCUPANCY SENSOR, SUCH THAT LIGHTS SHALL DIM DOWN BY 50% DURING PERIODS OF NO ACTIVITY AND RETURN TO 100% LIGHT OUTPUT ON OCCUPANCY DETECTION. FIXTURES SHALL REMAIN ON FOR A MINIMUM OF 30 MINUTES OF AREA VACANCY.
- CIRCUIT SERVICE CORRIDOR LIGHT FIXTURES AHEAD OF SWITCHED FIXTURES ON SAME CIRCUIT. CORRIDOR LIGHT FIXTURES TO BE CONSTANT 'ON'.



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

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EXPIRES: July 5th, 2020

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PROJECT # 2017-053
DATE: 11/06/2019

REVISIONS
△ PLAN REVIEW 01.24.2020
△ PLAN REVIEW 03.13.2020
△ PLAN REVIEW 04.24.2020
△ PLAN REVIEW 08.10.2020
△ PLAN REVIEW 09.17.2020

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SHEET:

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E2.01

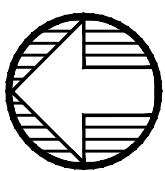
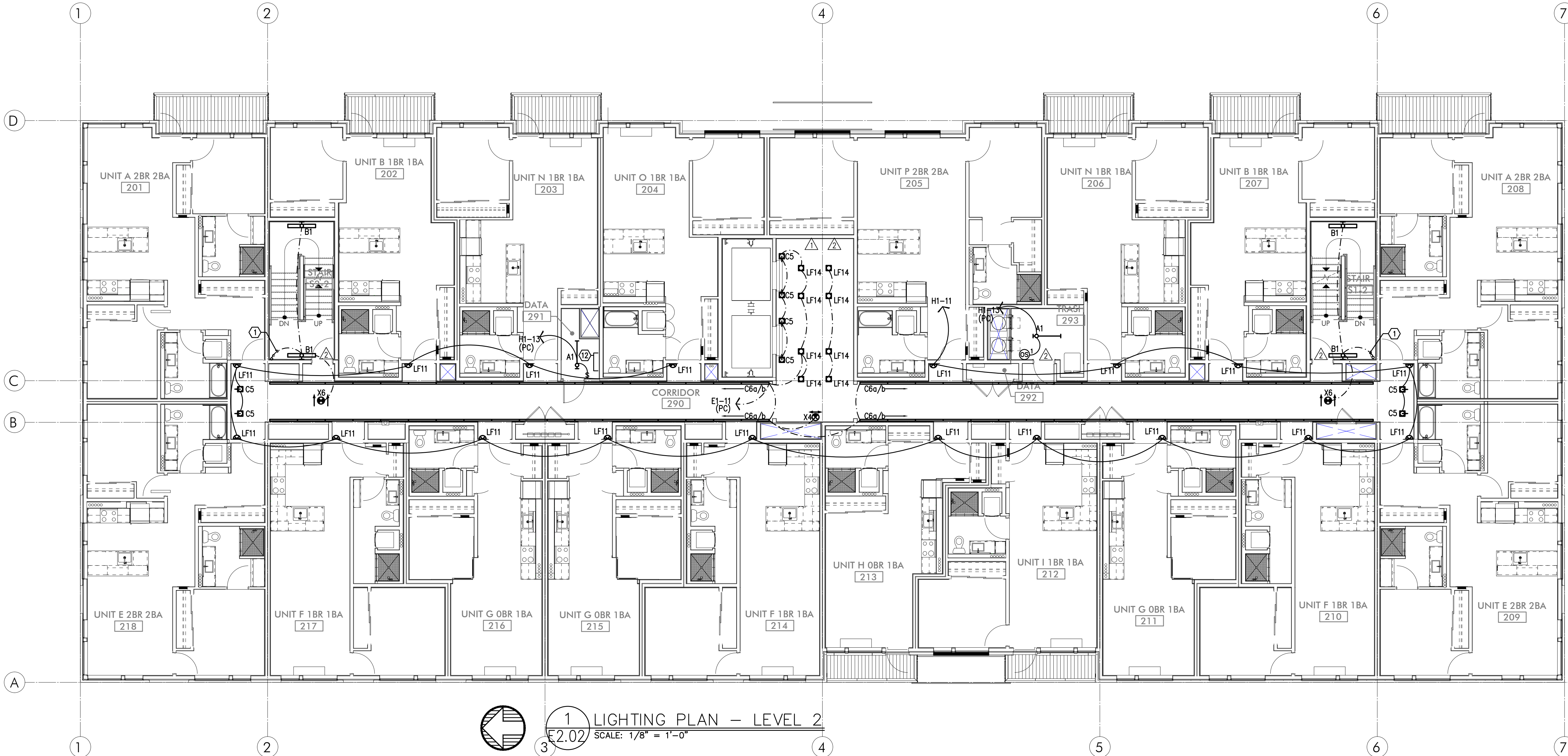
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- E. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE RESIDENTIAL UNITS.
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- K. THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.
- L. ALL EGRESS FIXTURES SHALL BE WIRED SUCH THAT IN THE EVENT OF A POWER FAILURE, ALL LIGHTS WILL AUTOMATICALLY RETURN TO FULL POWER. REFER TO SWITCHING DETAILS ON SHEET E1.22.

KEYED NOTES:

1. CONTINUE CIRCUIT UP THROUGH THE STAIRWELL.
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14. CIRCUIT SERVICE CORRIDOR LIGHT FIXTURES AHEAD OF SWITCHED FIXTURES ON SAME CIRCUIT. CORRIDOR LIGHT FIXTURES TO BE CONSTANT 'ON'.



1 LIGHTING PLAN - LEVEL 2
E2.02 SCALE: 1/8" = 1'-0"

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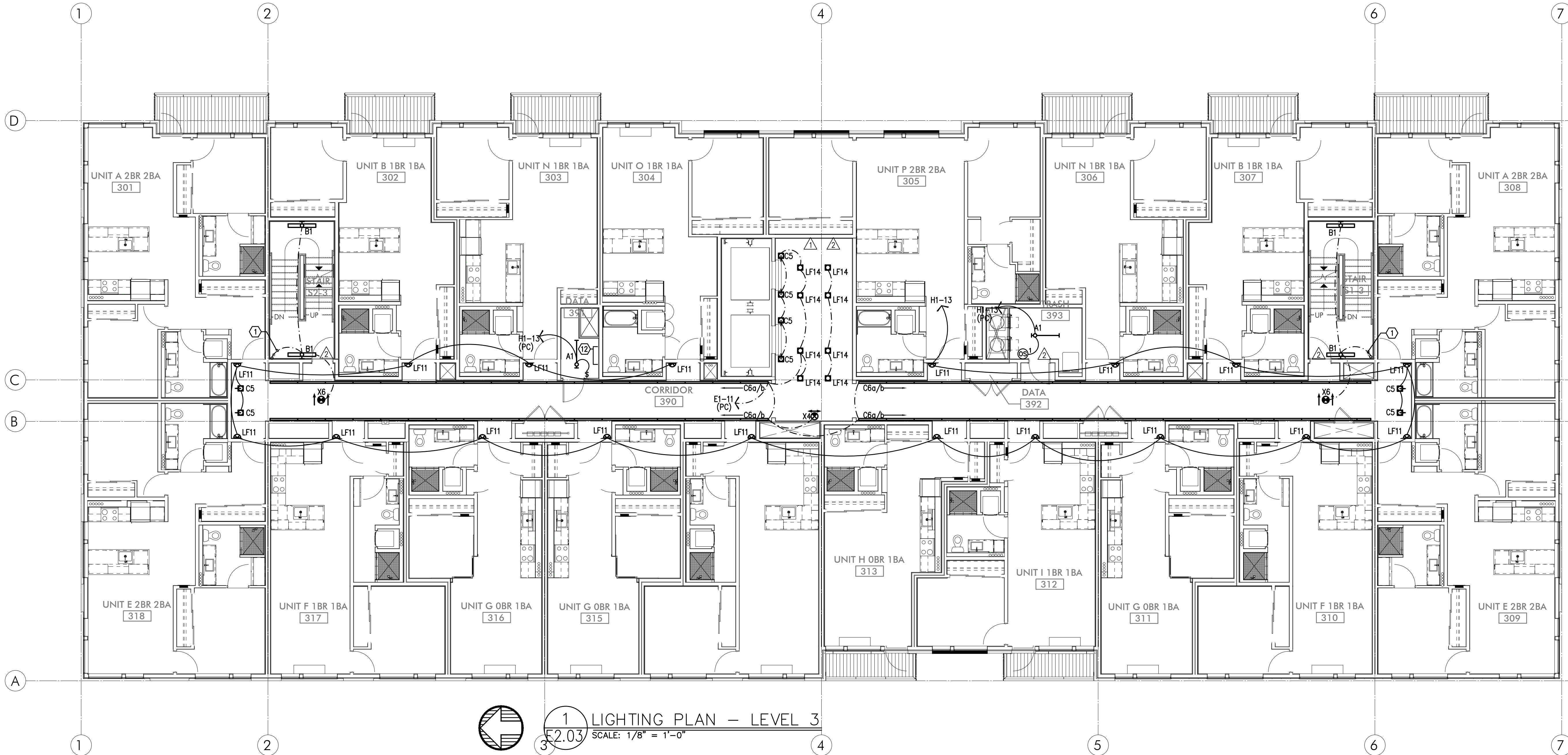
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E2.02

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KEYED NOTES:

1. CONTINUE CIRCUIT UP THROUGH THE STAIRWELL.
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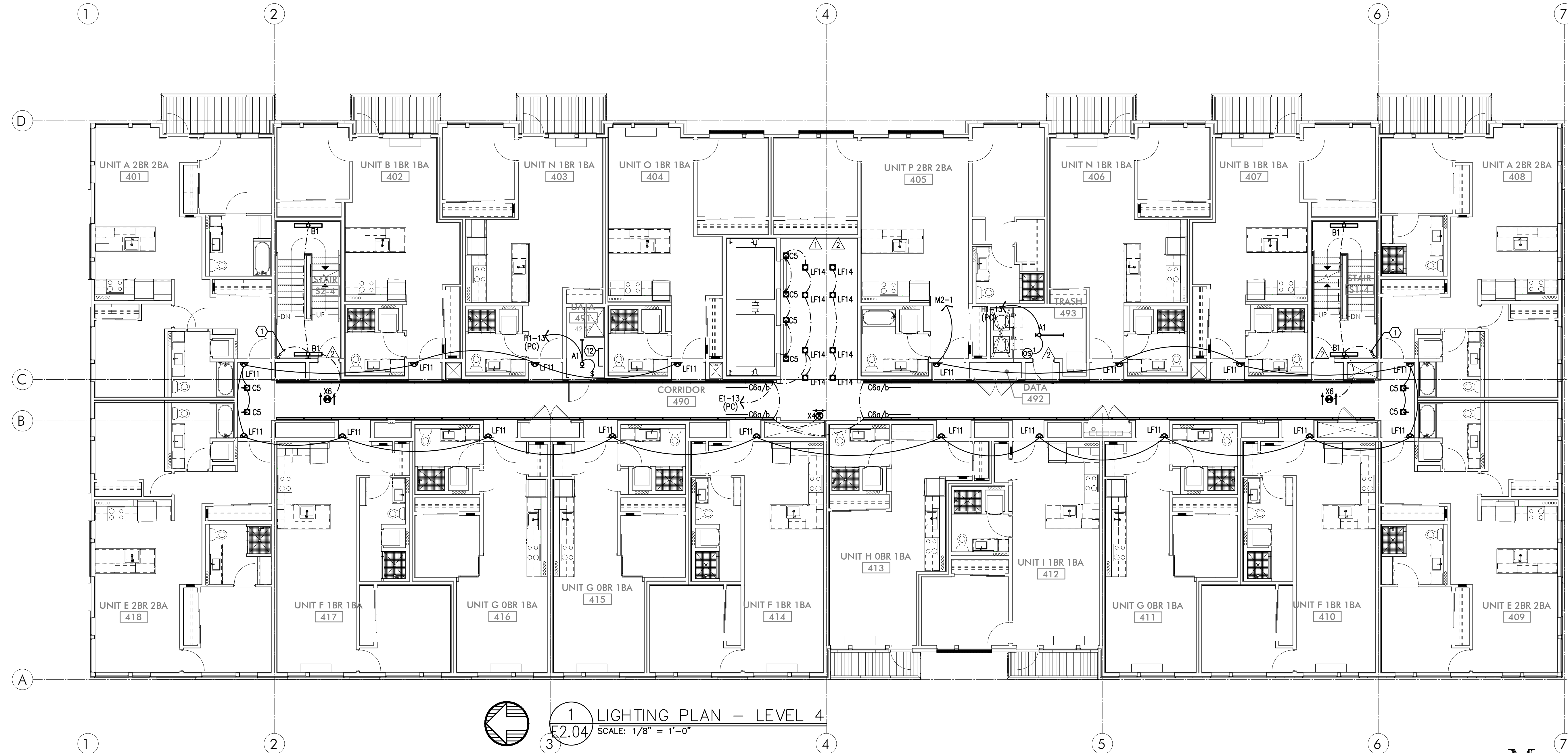
1 LIGHTING PLAN - LEVEL 3
E2.03 SCALE: 1/8" = 1'-0"

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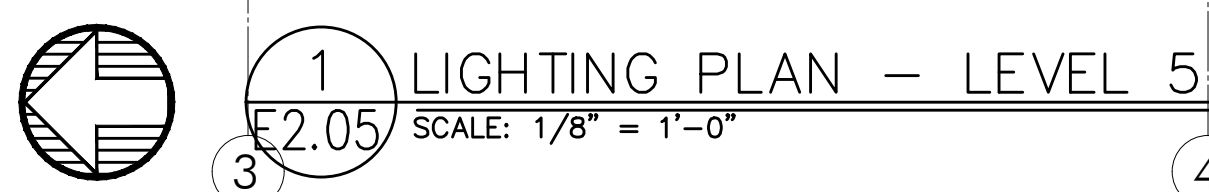
1. CONTINUE CIRCUIT UP THROUGH THE STAIRWELL.
2. EXTERIOR BUILDING LIGHTS TO BE CONTROLLED VIA INTEGRAL AND/OR REMOTE PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E1.21-E1.22 FOR ADDITIONAL INFORMATION.
3. LEASE SPACE LIGHTING TO HAVE DUAL SWITCHES, ONE TO CONTROL NORMAL POWER LIGHTS AND ONE TO ACT AS A MANUAL OVERRIDE FOR NIGHT LIGHT FIXTURES (NL). INTENT IS THAT THE NIGHT LIGHTS ARE TO BE "ON" 24/7 AND ONLY ILLUMINATED AT NIGHT VIA PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. NIGHT LIGHT FIXTURES SHALL ALSO BE EQUIPPED WITH EMERGENCY BATTERY BACKUP IN THE EVENT OF A POWER FAILURE. ALL LIGHT FIXTURES IN THE LEASE SPACE ARE TO BE ON A SINGLE CIRCUIT AND TEMPORARILY FED FROM THE HOUSE PANEL.
4. LIGHTING CONTROL FOR LOBBY, CORRIDOR & COMMON SPACES. REFER TO DETAIL #1, SHEET E1.23 FOR MORE INFORMATION.
5. LIGHTING CONTROLS FOR THIS AREA LOCATED IN THE MAINTENANCE ROOM. SEE SHEET NOTE #4 FOR MORE INFORMATION.
6. TIE INTO TEMPORARY LIGHTING CIRCUIT AND ENSURE BATTERY BACK UP POWER FOR EGRESS.
7. BIKE ROOM LIGHT FIXTURES CONTROLLED BY CEILING MOUNT OCCUPANCY SENSOR.
8. FIXTURE FINISH TO MATCH SOFFIT METAL.
9. PROVIDE POWER CONNECTION FOR COVE LIGHTING AT ALL WALL NICHES TO WALL WASH ART INSTALLATIONS. REFER TO INTERIOR DECORATOR'S INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION REGARDING LENGTH, LOCATIONS AND CONTROL TYPE TO BE INSTALLED. USE FIXTURE TYPE 'C1' AND TIE INTO LOBBY LIGHTING CIRCUIT H1-5.
10. PROVIDE CEILING MOUNTED PHOTOCELL TO PROVIDE DIMMING OF LIGHT FIXTURES DURING DAYLIGHT PERIODS.
11. PROVIDE FIXTURE TYPE LF1 UNDER SHELF LIGHTING PER INTERIOR DECORATOR'S DIRECTION. PROVIDE CIRCUITING AND SWITCHING AS INDICATED. TYPICAL FOR TWO SHELVES. REFER TO FIXTURE SCHEDULE ON E1.21 AND DETAIL #4 ON E1.17 FOR MORE INFORMATION.
12. TYPICAL LIGHTING CONTROL FOR RESIDENTIAL CORRIDORS. REFER TO DETAIL #2, SHEET E1.23 FOR MORE INFORMATION.
13. FITNESS ROOM LIGHT FIXTURES SHALL BE CONTROLLED VIA OCCUPANCY SENSOR, SUCH THAT LIGHTS SHALL DIM DOWN BY 50% DURING PERIODS OF NO ACTIVITY AND RETURN TO 100% LIGHT OUTPUT ON OCCUPANCY DETECTION. FIXTURES SHALL REMAIN ON FOR A MINIMUM OF 30 MINUTES OF AREA VACANCY.
14. CIRCUIT SERVICE CORRIDOR LIGHT FIXTURES AHEAD OF SWITCHED FIXTURES ON SAME CIRCUIT. CORRIDOR LIGHT FIXTURES TO BE CONSTANT 'ON'.



1 LIGHTING PLAN - LEVEL 4
E2.04 SCALE: 1/8" = 1'-0"

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. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION. C. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN. D. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL & INTERIOR DESIGN DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES. E. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE RESIDENTIAL UNITS. F. REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULE.	G. THE CONTRACTOR SHALL CONSULT THE ARCHITECT AND INTERIOR DESIGNER FOR ALL FIXTURE LOCATIONS PRIOR TO THE START OF ANY ROUGH IN WORK H. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION. I. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL. J. PROVIDE DIGITAL LIGHTING CONTROLS FOR EACH ROOM/SPACE, CONSISTING OF MULTI-BUTTON SWITCH(ES), OCC SENSORS, POWER PACKS, DAYLIGHT SENSORS, DIMMERS, INTERCONNECTING WIRING, ETC. K. THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGeways WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS. L. ALL EGRESS FIXTURES SHALL BE WIRED SUCH THAT IN THE EVENT OF A POWER FAILURE, ALL LIGHTS WILL AUTOMATICALLY RETURN TO FULL POWER. REFER TO SWITCHING DETAILS ON SHEET E1.22.
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1.	CONTINUE CIRCUIT UP THROUGH THE STAIRWELL.	△	9.	PROVIDE POWER CONNECTION FOR COVE LIGHTING AT ALL WALL NICHES TO WALL WASH ART INSTALLATIONS. REFER TO INTERIOR DECORATOR'S INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION REGARDING LENGTH, LOCATIONS AND CONTROL TYPE TO BE INSTALLED. USE FIXTURE TYPE 'C1' AND TIE INTO LOBBY LIGHTING CIRCUIT H1-5.
2.	EXTERIOR BUILDING LIGHTS TO BE CONTROLLED VIA INTEGRAL AND/OR REMOTE PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E1.21-E1.22 FOR ADDITIONAL INFORMATION.		10.	PROVIDE CEILING MOUNTED PHOTOCELL TO PROVIDE DIMMING OF LIGHT FIXTURES DURING DAYLIGHT PERIODS.
3.	LEASE SPACE LIGHTING TO HAVE DUAL SWITCHES. ONE TO CONTROL NORMAL POWER LIGHTS AND ONE TO ACT AS A MANUAL OVERRIDE FOR NIGHT LIGHT FIXTURES (NL). INTENT IS THAT THE NIGHT LIGHTS ARE TO BE "ON" 24/7 AND ONLY ILLUMINATED AT NIGHT VIA PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. NIGHT LIGHT FIXTURES SHALL ALSO BE EQUIPPED WITH EMERGENCY BATTERY BACKUP IN THE EVENT OF A POWER FAILURE. ALL LIGHT FIXTURES IN THE LEASE SPACE ARE TO BE ON A SINGLE CIRCUIT AND TEMPORARILY FED FROM THE HOUSE PANEL.	△	11.	PROVIDE FIXTURE TYPE LF1 UNDER SHELF LIGHTING PER INTERIOR DECORATOR'S DIRECTION. PROVIDE CIRCUITING AND SWITCHING AS INDICATED. TYPICAL FOR TWO SHELVES. REFER TO FIXTURE SCHEDULE ON E1.21 AND DETAIL #4 ON E1.17 FOR MORE INFORMATION.
△ 4.	LIGHTING CONTROL FOR LOBBY, CORRIDOR & COMMON SPACES. REFER TO DETAIL #1, SHEET E1.23 FOR MORE INFORMATION.	△	12.	TYPICAL LIGHTING CONTROL FOR RESIDENTIAL CORRIDORS. REFER TO DETAIL #2, SHEET E1.23 FOR MORE INFORMATION.
5.	LIGHTING CONTROLS FOR THIS AREA LOCATED IN THE MAINTENANCE ROOM. SEE SHEET NOTE #4 FOR MORE INFORMATION.		13.	FITNESS ROOM LIGHT FIXTURES SHALL BE CONTROLLED VIA OCCUPANCY SENSOR, SUCH THAT LIGHTS SHALL DIM DOWN BY 50% DURING PERIODS OF NO ACTIVITY AND RETURN TO 100% LIGHT OUTPUT ON OCCUPANCY DETECTION. FIXTURES SHALL REMAIN ON FOR A MINIMUM OF 30 MINUTES OF AREA VACANCY.
6.	TIE INTO TEMPORARY LIGHTING CIRCUIT AND ENSURE BATTERY BACK UP POWER FOR EGRESS.		14.	CIRCUIT SERVICE CORRIDOR LIGHT FIXTURES AHEAD OF SWITCHED FIXTURES ON SAME CIRCUIT. CORRIDOR LIGHT FIXTURES TO BE CONSTANT 'ON'.
△ 7.	BIKE ROOM LIGHT FIXTURES CONTROLLED BY CEILING MOUNT OCCUPANCY SENSOR.			
8.	FIXTURE FINISH TO MATCH SOFFIT METAL.			



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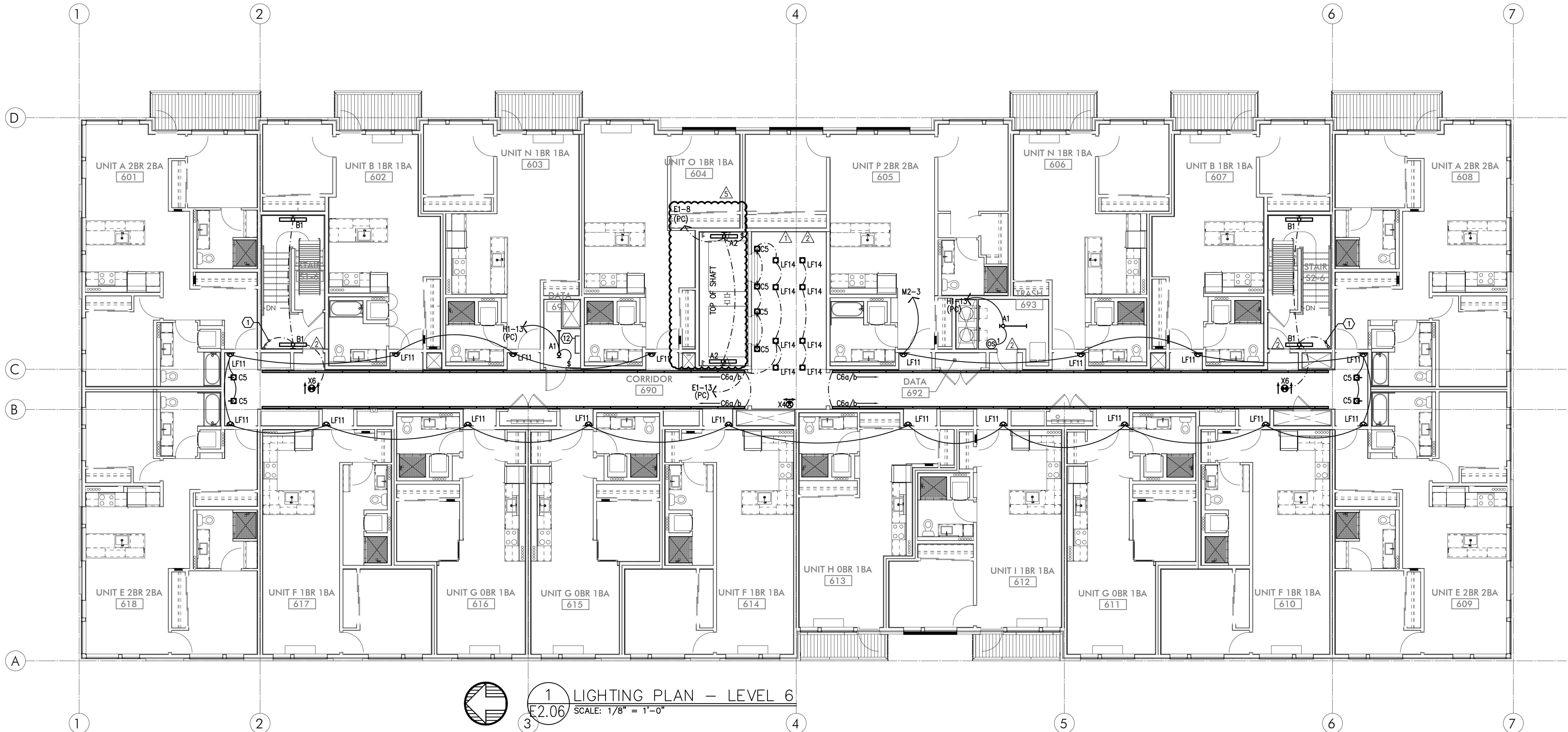
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CONTACT: DENISE TAYLOR

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. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
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- D. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL & INTERIOR DESIGN DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.**
- E. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE RESIDENTIAL UNITS.
- F. REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULE.
- G. THE CONTRACTOR SHALL CONSULT THE ARCHITECT AND INTERIOR DESIGNER FOR ALL FIXTURE LOCATIONS PRIOR TO THE START OF ANY ROUGH IN WORK
- H. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.
- I. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.
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- K. THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.
- L. ALL EGRESS FIXTURES SHALL BE WIRED SUCH THAT IN THE EVENT OF A POWER FAILURE, ALL LIGHTS WILL AUTOMATICALLY RETURN TO FULL POWER. REFER TO SWITCHING DETAILS ON SHEET E1.22.

KEYED NOTES:

1. CONTINUE CIRCUIT UP THROUGH THE STAIRWELL.
2. EXTERIOR BUILDING LIGHTS TO BE CONTROLLED VIA INTEGRAL AND/OR REMOTE PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E1.21-E1.22 FOR ADDITIONAL INFORMATION.
3. LEASE SPACE LIGHTING TO HAVE DUAL SWITCHES. ONE TO CONTROL NORMAL POWER LIGHTS AND ONE TO ACT AS A MANUAL OVERRIDE FOR NIGHT LIGHT FIXTURES (NL). INTENT IS THAT THE NIGHT LIGHTS ARE TO BE "ON" 24/7 AND ONLY ILLUMINATED AT NIGHT VIA PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. NIGHT LIGHT FIXTURES SHALL ALSO BE EQUIPPED WITH EMERGENCY BATTERY BACKUP IN THE EVENT OF A POWER FAILURE. ALL LIGHT FIXTURES IN THE LEASE SPACE ARE TO BE ON A SINGLE CIRCUIT AND TEMPORARILY FED FROM THE HOUSE PANEL.
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5. LIGHTING CONTROLS FOR THIS AREA LOCATED IN THE MAINTENANCE ROOM. SEE SHEET NOTE #4 FOR MORE INFORMATION.
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11. PROVIDE FIXTURE TYPE LF1 UNDER SHELF LIGHTING PER INTERIOR DECORATOR'S DIRECTION. PROVIDE CIRCUITING AND SWITCHING AS INDICATED. TYPICAL FOR TWO SHELVES. REFER TO FIXTURE SCHEDULE ON E1.21 AND DETAIL #4 ON E1.17 FOR MORE INFORMATION.
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EXPIRES: July 5th, 2020

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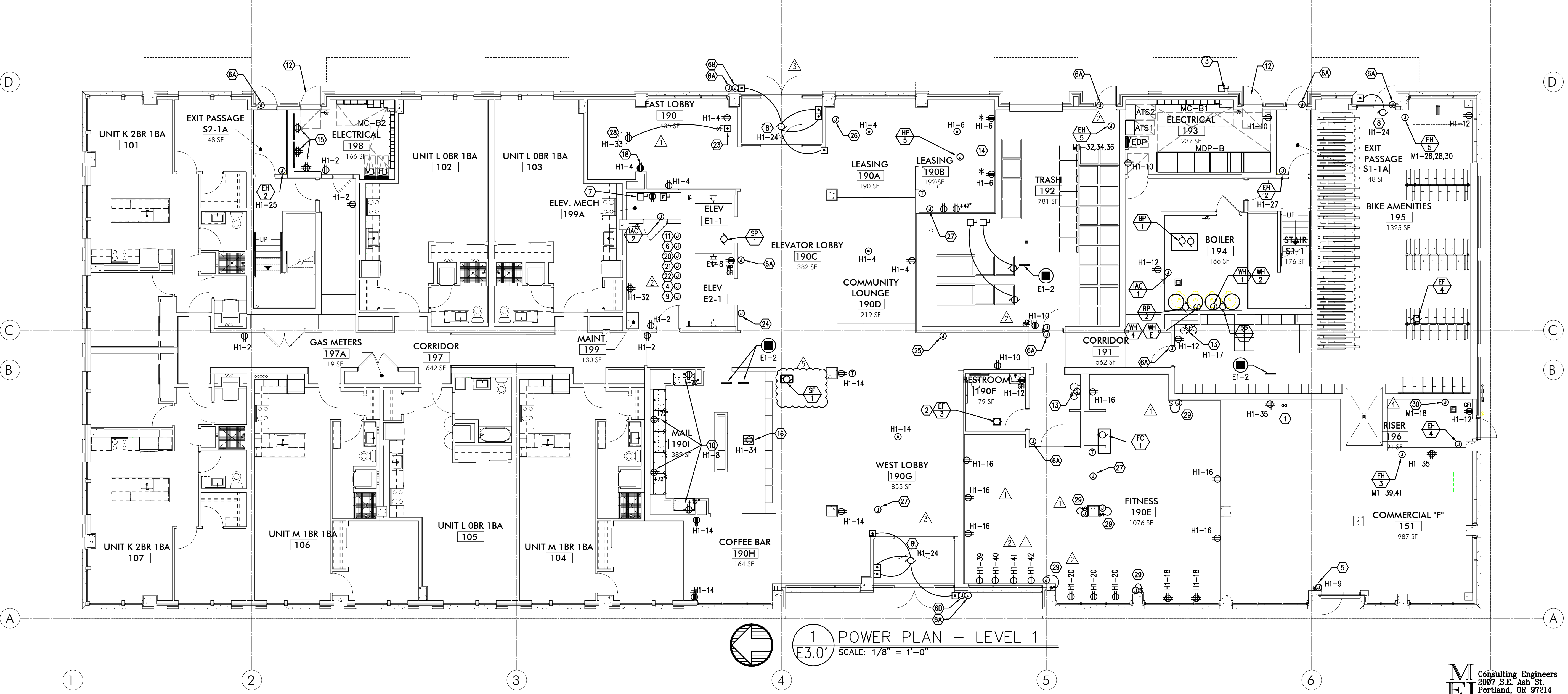
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E2.06

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 CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- C. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.
- D. REFER TO INTERIOR DECORATOR AND/OR ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATION(S) AND ELEVATIONS OF FIXTURES & DEVICES. OTHER DEVICES SHOWN ON THE ELECTRICAL PLANS AND NOT INDICATED ON THE DECORATOR'S OR ARCHITECT'S DRAWINGS, SHALL BE INSTALLED AT STANDARD MOUNTING HEIGHT AS INDICATED THE SYMBOL LIST.
- E. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS.
- F. ELECTRICAL EQUIPMENT SHOWN IN THE ELECTRICAL ROOMS IS APPROXIMATE, BASED ON TYPICAL PRODUCTS. CONTRACTOR SHALL VERIFY ANY SUBMITTED EQUIPMENT WILL FIT WITHIN THE SPACE PROVIDED, PRIOR TO PRODUCT SUBMITTAL REVIEW.
- G. CONSULT ARCHITECTURAL AND/OR INTERIOR DECORATOR PLANS FOR EXACT RECEPTACLE LOCATION IN THE COMMUNITY AREAS, SUCH AS THE LOBBY, CLUB ROOM, LEASE OFFICE, ETC.
- H. THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.

KEYED NOTES:

1. ROUTE (2) EMPTY 3 1/2" CONDUIT WITH PULL STRING, FROM MC1 UNDER SLAB AND STUB-UP INTO LEASE SPACE FOR TENANT SUPPLIED BRANCH PANEL AND CAP OFF.
2. EXHAUST FAN TO BE TIED INTO LIGHTING CIRCUIT FOR THIS AREA.
3. GENERATOR DISCONNECT. SEE ONE-LINE DIAGRAM ON SHEET E1.11.
4. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR GENERATOR REMOTE ANNUNCIATOR. FED FROM PANEL E1, CKT 27.
5. 20A,120V, 1P POWER CONNECTION FOR BLADE SIGNS. CIRCUIT AS INDICATED VIA LIGHTING CONTROL PANEL. MOUNT JUNCTION BOX TIGHT TO CEILING (AT BUILDING INTERIOR), COORDINATING EXACT LOCATION WITH SIGN INSTALLER'S SLEEVE AND PER ARCHITECT'S DIRECTION AT EACH LOCATION.
6. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 30 FOR BUILDING ENTRY ACCESS CONTROL SYSTEM AND PROVIDE ROUGH IN AND WIRING TO ACCESS POINTS LOCATED ON PLANS. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
- 6A. ENTRY ACCESS POINT.
- 6B. APARTMENT CALL DIRECTORY.
7. VERIFY ELEVATOR EQUIPMENT LOCATION AND ELECTRICAL REQUIREMENTS WITH ARCHITECT AND/OR ELEVATOR PROVIDER.
8. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL 'H1' FOR AUTOMATIC DOOR OPENERS.
9. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL 'H1' FOR DAS SYSTEM.
10. PACKAGE CONCIERGE SYSTEM. MOUNT DUPLEX RECEPTACLES AT 76" AFF.
11. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR A/V SYSTEM CONTROL, FROM PANEL H1, CKT 31. CONSULT INTERIORS GROUP FOR EXACT LOCATION. COORDINATE WITH SYSTEM INSTALLER FOR EXACT REQUIREMENTS.
12. ELECTRICAL SERVICE METER ROOMS SHALL HAVE OUTWARD SWING DOORS EQUIPPED WITH PANIC HARDWARE. PROVIDE A KEY BOX AT THE EXTERIOR FOR CLARK PUBLIC UTILITIES 24/7 ACCESS.
13. CONSULT MECHANICAL AND/OR PLUMBING CONTRACTOR FOR EXACT ELECTRICAL REQUIREMENTS OF THE DRINKING FOUNTAIN, IF ANY.
14. PER WASHINGTON STATE ENERGY CODE C405.10, AT LEAST 50% OF THE RECEPTACLES IN THIS SPACE SHALL BE CONTROLLED. RECEPTACLES NOTED WITH '*' SHALL BE CONTROLLED VIA OCCUPANCY SENSOR AND SHALL 'TURN OFF' AFTER A MINIMUM OF 30 MINUTES OF IN-ACTIVITY WITHIN THE SPACE. PROVIDE APPROPRIATE IDENTIFICATION OF EACH CONTROLLED RECEPTACLE. REFER TO THE PANEL SCHEDULES ON E1.12 FOR ADDITIONAL INFORMATION ON WHICH CIRCUIT IS TO BE THE CONTROLLED CIRCUIT.
15. LOW VOLTAGE/COMMUNICATIONS SYSTEM DEMARCATION BOARD(S). COORDINATE LOCATIONS AND ELECTRICAL POWER REQUIREMENTS WITH THE TELECOM PLANS ('T' SERIES SHEETS) AND LOW VOLTAGE SYSTEMS INSTALLERS, AND PROVIDE ROUGH IN AND/OR FINAL ELECTRICAL POWER CONNECTIONS & DEVICES. REFER PANEL 'H1' SCHEDULE ON E1.16 FOR CIRCUITS.
16. CEILING MOUNTED 20A DUPLEX RECEPTACLE FOR SECURITY CAMERA. CONSULT ARCHITECT FOR ADDITIONAL INFORMATION.
17. DEDICATED SHAFT FOR THE ROUTING OF ELECTRICAL FEEDERS FROM TENANT METERS TO RESIDENTIAL UNITS.
18. HORIZONTAL RECEPTACLE IN BANQUETTE FACE. REFER TO THE ARCHITECT AND INTERIOR DECORATOR PLANS FOR ADDITIONAL INFORMATION. PROVIDE WITH TYPES A & C USB PORTS, LEVITON T5633-T OR APPROVED EQUAL.
19. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM THE EMERGENCY PANEL E1, CKTS 19 & 21 FOR ELEVATOR SMOKE CURTAINS. SMOKE CURTAINS ARE TO BE SMOKE GUARD SYSTEM MODEL 200 AND SHALL BE INSTALLED AT EACH ELEVATOR LOBBY. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE INSTALLATION WITH THE EQUIPMENT PROVIDER/INSTALLER FOR ALL ELECTRICAL REQUIREMENTS PRIOR TO ROUGH IN. EACH SMOKE CURTAIN SHALL BE INTERLINKED WITH THE NEAREST SMOKE DETECTOR AT EACH LOCATION.
20. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 17 FOR THE APARTMENT ENTRY SYSTEM PRIMARY CONTROL PANEL AND PROVIDE ROUGH IN AND WIRING, AS NEEDED, TO EACH UNIT ENTRY. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
21. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 34 FOR THE SECURITY SYSTEM PANEL AND PROVIDE ROUGH IN AND WIRING, AS NEEDED. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
22. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL E1, CKT 23 FOR THE FIRE ALARM CONTROL PANEL. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
23. PROVIDE EMERGENCY SHUTOFF CONTROLS FOR GAS APPLIANCES LOCATED ON TERRACE. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. CIRCUIT FROM PANEL 'E1'. SEE DETAIL 5/E1.22 FOR EMERGENCY SHUFF-OFF DIAGRAM.
24. AREA OF REFUGE PANEL. CONSULT FIRE ALARM PLANS ('T' SERIES SHEETS) AND PROVIDE ROUGH IN AS NEEDED.
25. PROVIDE ROUGH IN, AS NEEDED, FOR FIRE ALARM REMOTE ANNUNCIATION PANEL.
26. PROVIDE ROUGH IN, AS NEEDED, FOR AUDIO SYSTEM CONTROLS.
27. PROVIDE ROUGH IN, AS NEEDED, FOR WIFI SYSTEM. CIRCUIT FROM PANEL 'H1'.
28. CONSULT ARCHITECT AND/OR MECHANICAL PLANS FOR ADDITIONAL INFORMATION REGARDING THE FIREPLACE. PROVIDE ELECTRICAL CONNECTION(S) AS NEEDED FROM PANEL 'H1', CKT 33. PROVIDE 120V TWIST TIMER SWITCH (MAX. 60 MINUTES, "NO HOLD") FOR FIREPLACE IGNITER CONTROLS. INTERCONNECT WITH POWER VENT FAN LOCATED ON ROOF.
29. PROVIDE TWO 20A, 120V CIRCUITS, FROM PANEL 'H1' FOR WALL MOUNTED FANS, PROVIDED BY OTHERS. CONSULT INTERIOR DECORATOR FOR EXACT POWER REQUIREMENTS AND MOUNTING HEIGHTS. PROVIDE CONTROL SWITCH PER MANUFACTURER'S/DECORATOR'S DIRECTION.
30. PROVIDE ONE 20A, 120V CIRCUIT, FROM PANEL 'M1' FOR IRRIGATION CONTROLS. COORDINATE WITH LANDSCAPING FOR EXACT POWER REQUIREMENTS AND LOCATION PRIOR TO ROUGH IN.



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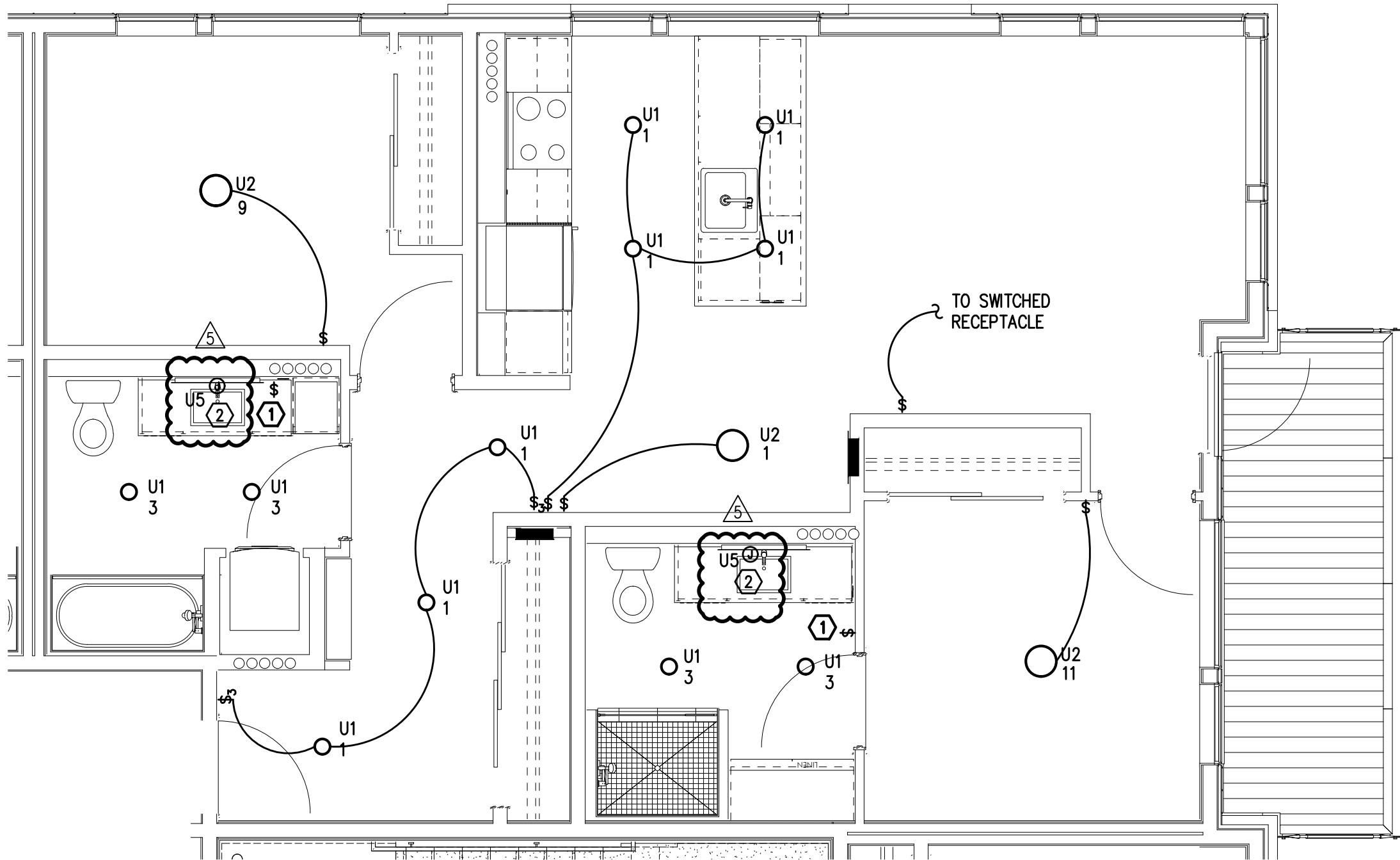
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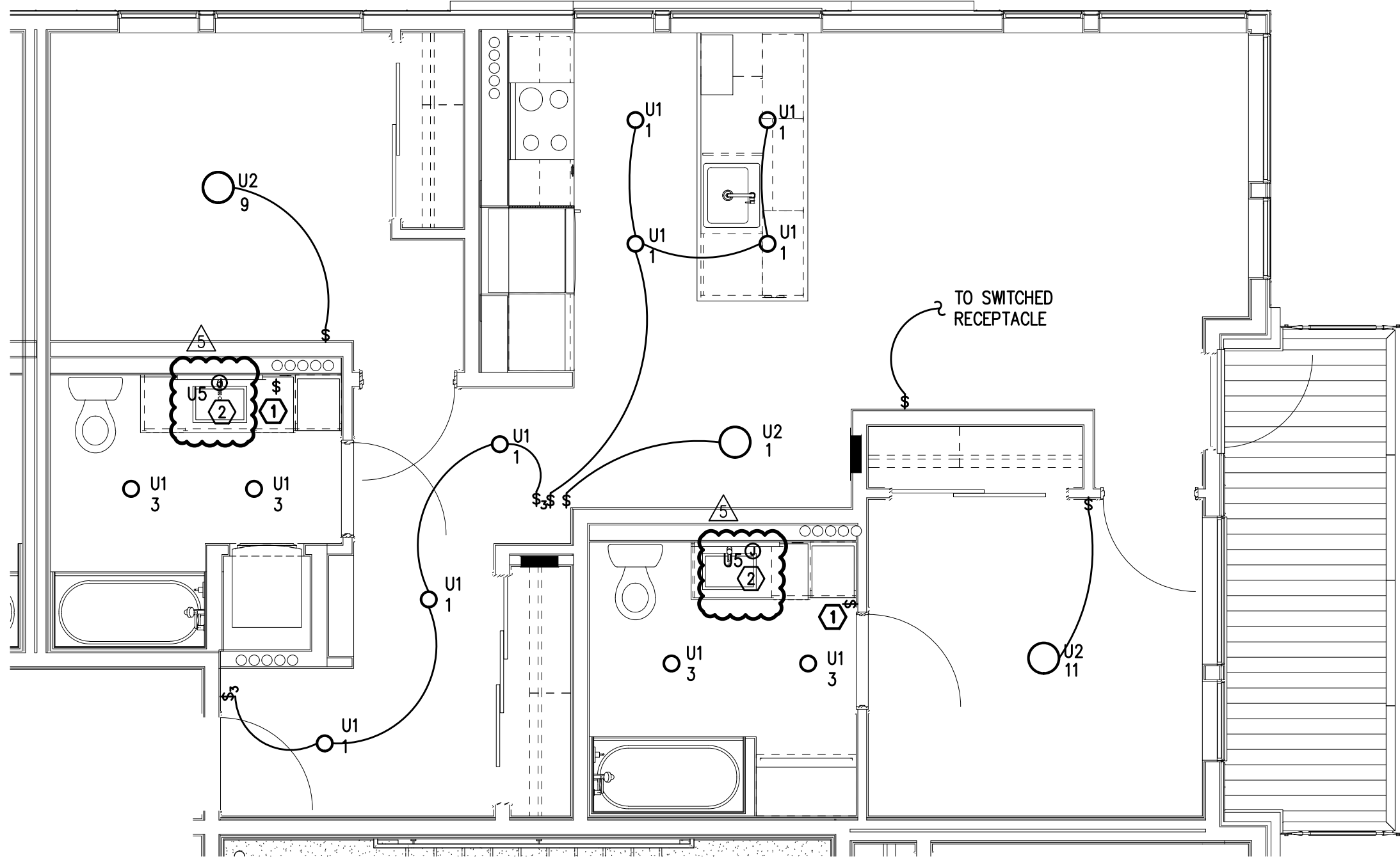
- ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL DEVICES AND FIXTURES.
- REFER TO SHEET E1.14 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
- ALL LIGHT SWITCHES SHALL BE ROCKER STYLE, SUCH AS LEVITON DECORA, OR APPROVED EQUAL.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT FIXTURE LOCATIONS. CONSULT INTERIOR DESIGNER FOR MOUNTING HEIGHTS NOT SPECIFIED.

KEYED NOTES:

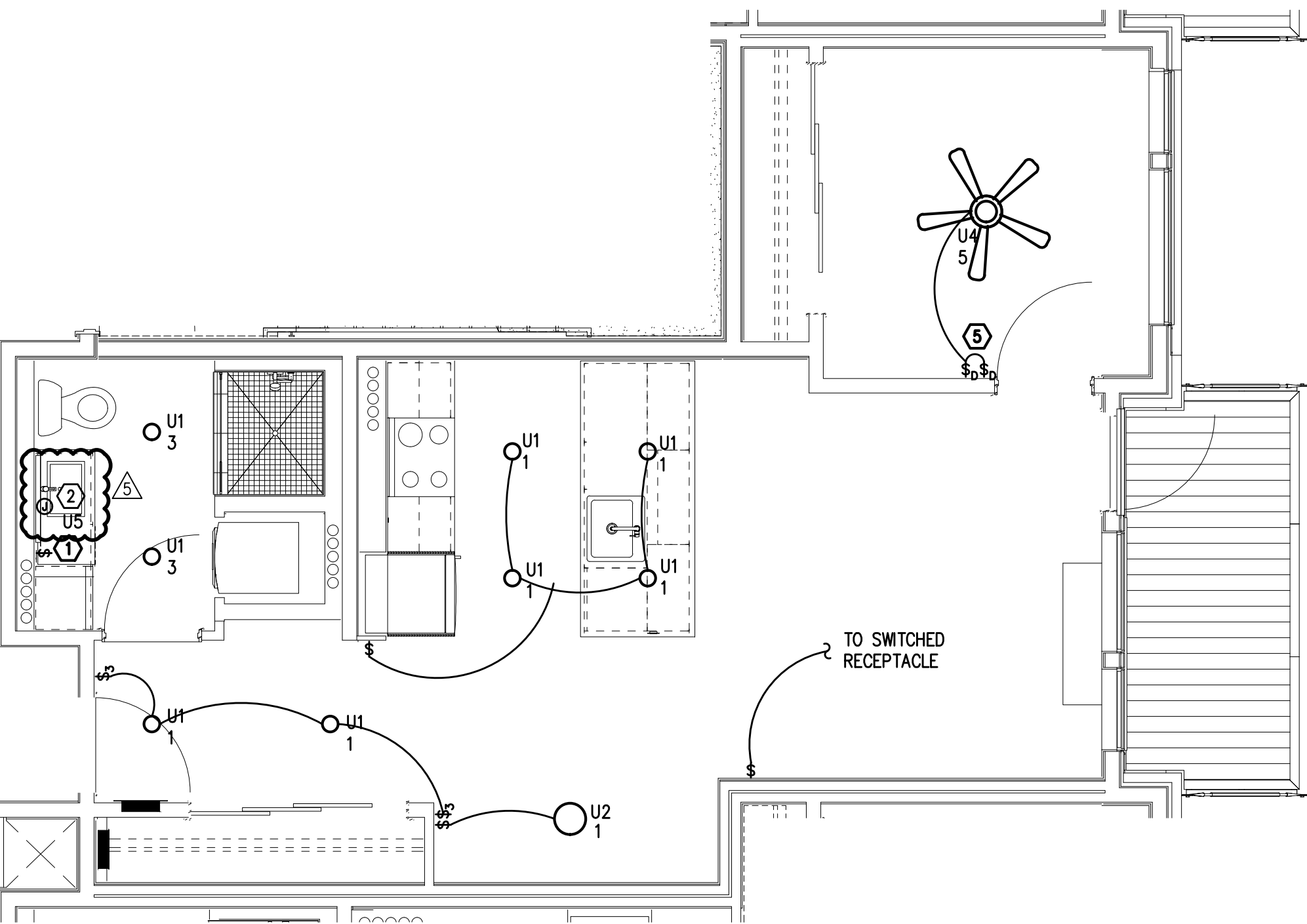
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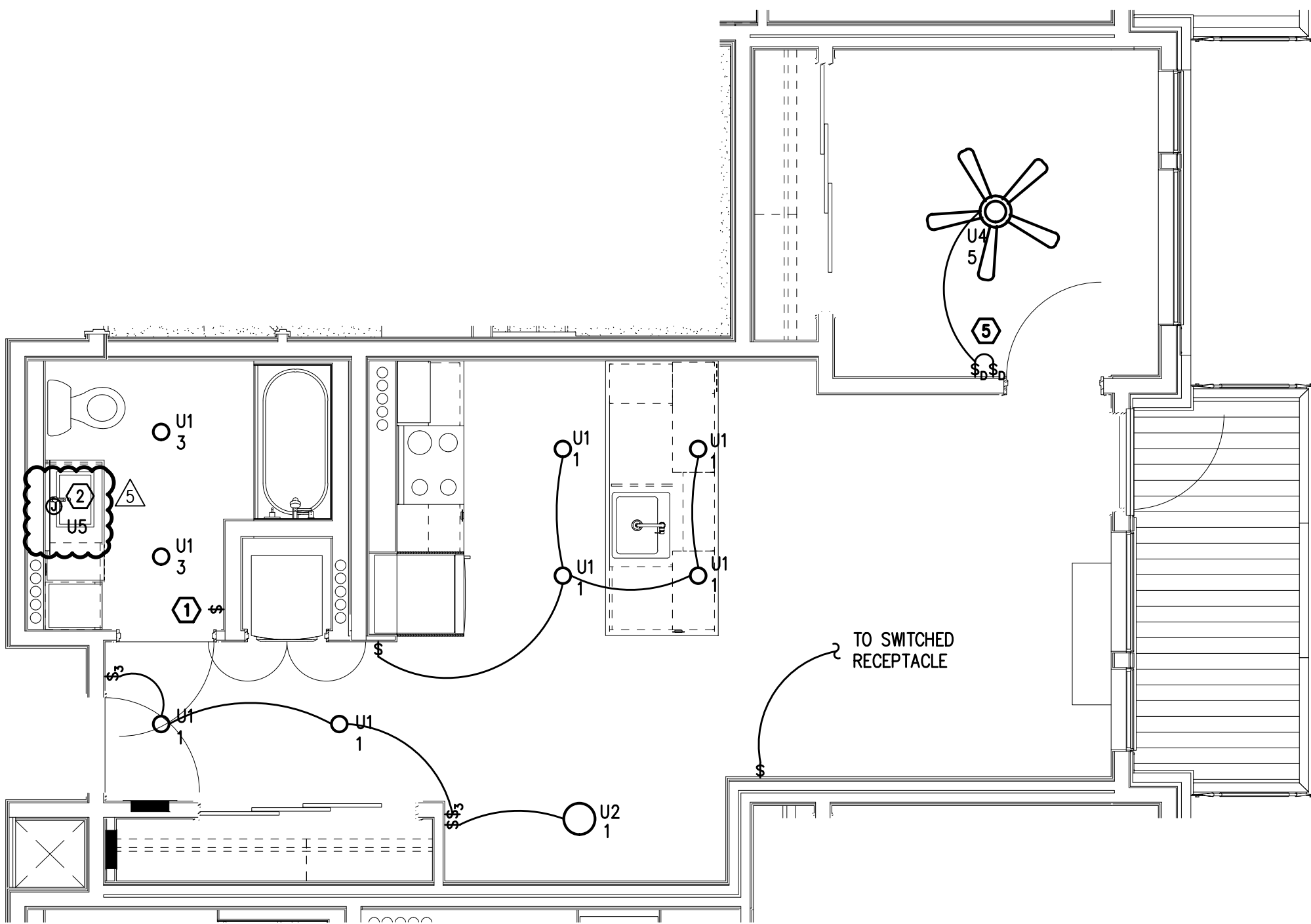
1
E4.01
TYPICAL UNIT TYPE A
2 BED/2 BATH – LIGHTING PLAN
SCALE: 1/4" = 1'-0"



2
E4.01
TYPICAL UNIT TYPE A-ADA
2 BED/2 BATH – LIGHTING PLAN
SCALE: 1/4" = 1'-0"



3
E4.01
TYPICAL UNIT TYPE B
1 BED/1 BATH – LIGHTING PLAN
SCALE: 1/4" = 1'-0"



4
E4.01
TYPICAL UNIT TYPE B-ADA
1 BED/1 BATH – LIGHTING PLAN
SCALE: 1/4" = 1'-0"



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PROJECT # 2017-053
DATE: 11/06/2019

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△ PLAN REVIEW 03.13.2020
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△ PLAN REVIEW 09.17.2020

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MIXED-USE DEVELOPMENT
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SHEET:
E4.02

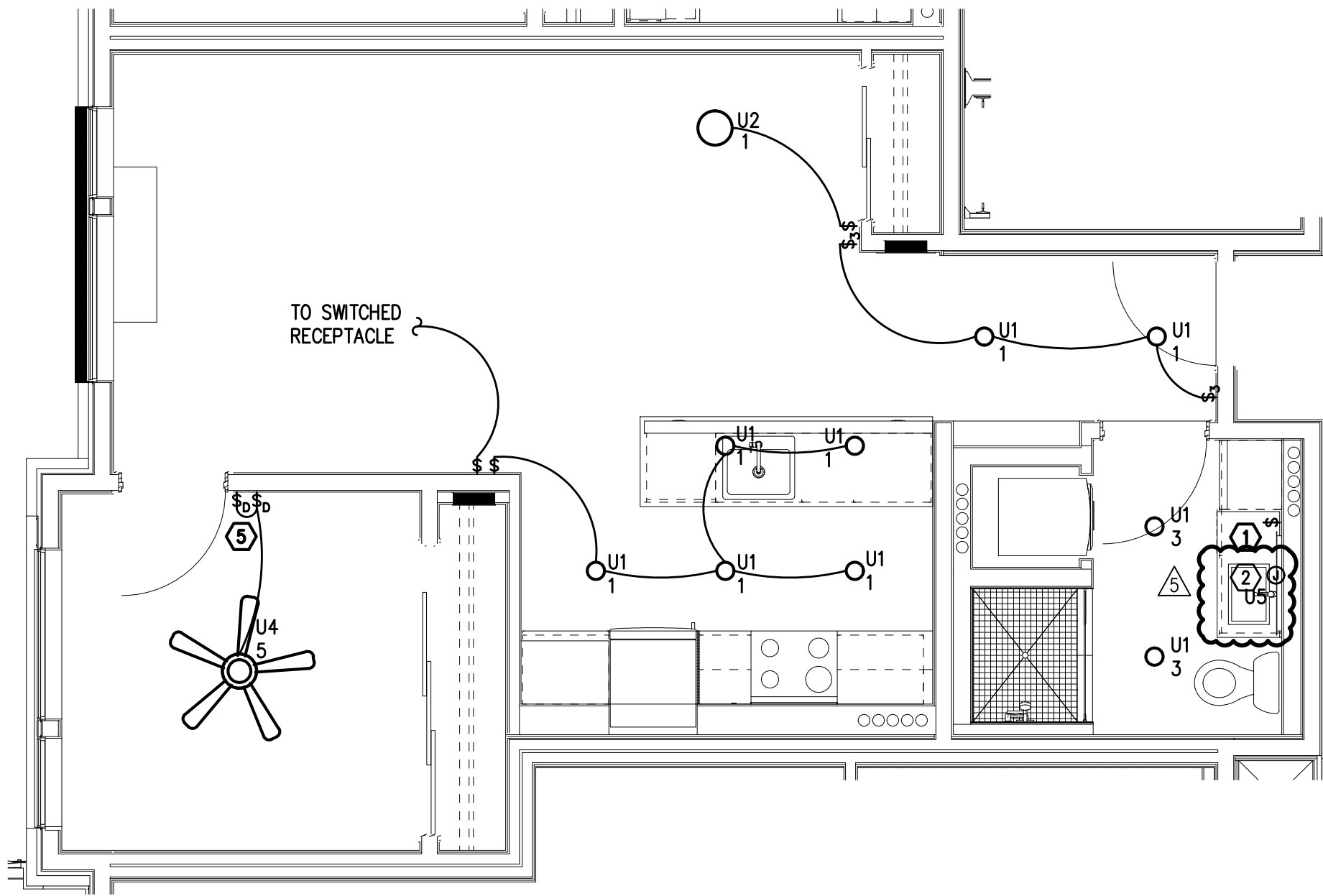
MEIA Consulting Engineers
2007 S.E. Ash St.
Portland, OR 97214
PHN: (503) 234-0548
FAX: (503) 234-0677
CONTACT: DENISE TAYLOR
INC. WWW.MPIA-ENG.COM

GENERAL NOTES:

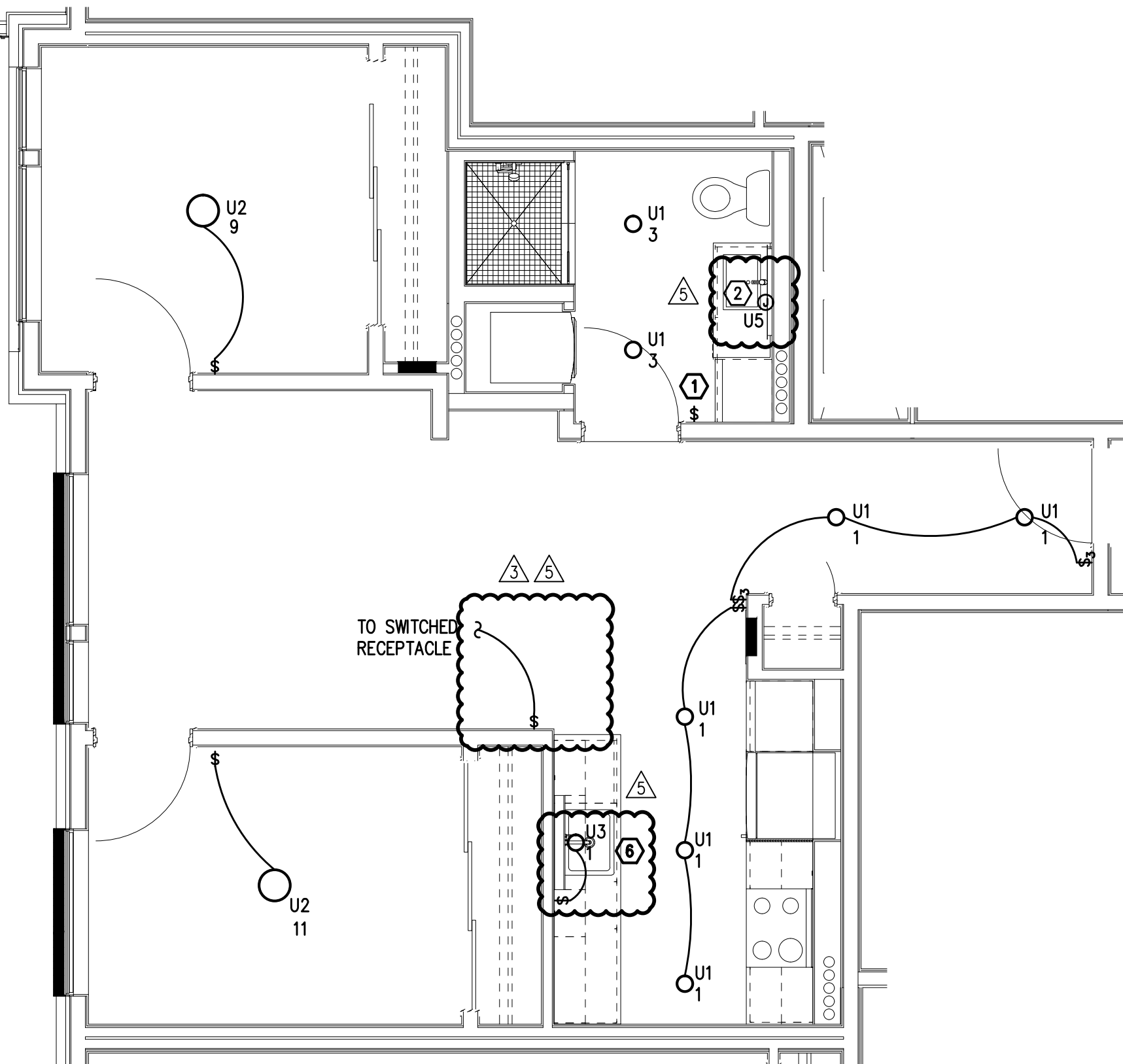
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- REFER TO SHEET E1.14 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
- ALL LIGHT SWITCHES SHALL BE ROCKER STYLE, SUCH AS LEVITON DECORA, OR APPROVED EQUAL.
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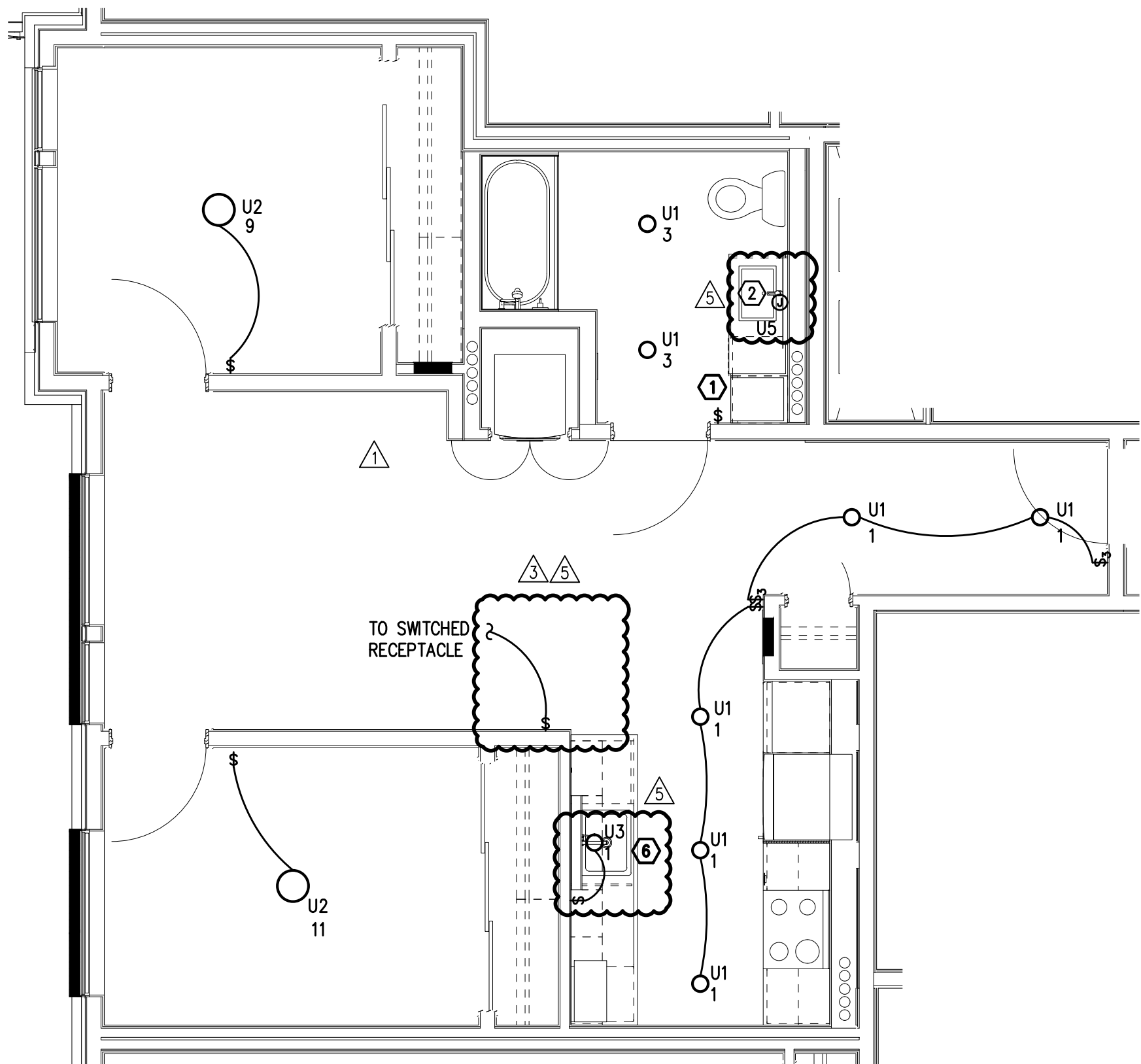
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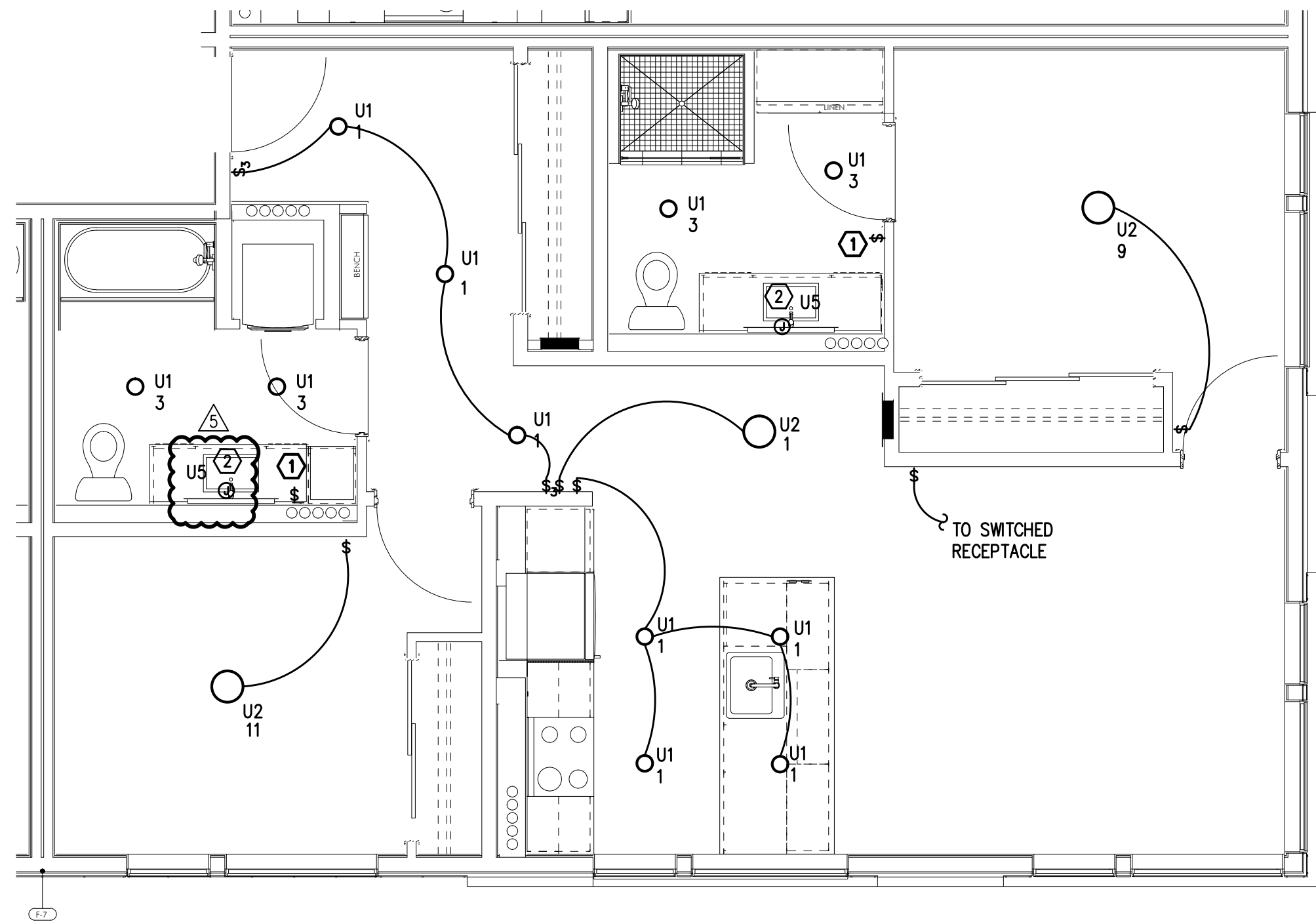
TYPICAL UNIT TYPE C
1 1 BED/1 BATH – LIGHTING PLAN
E4.02 SCALE: 1/4" = 1'-0"



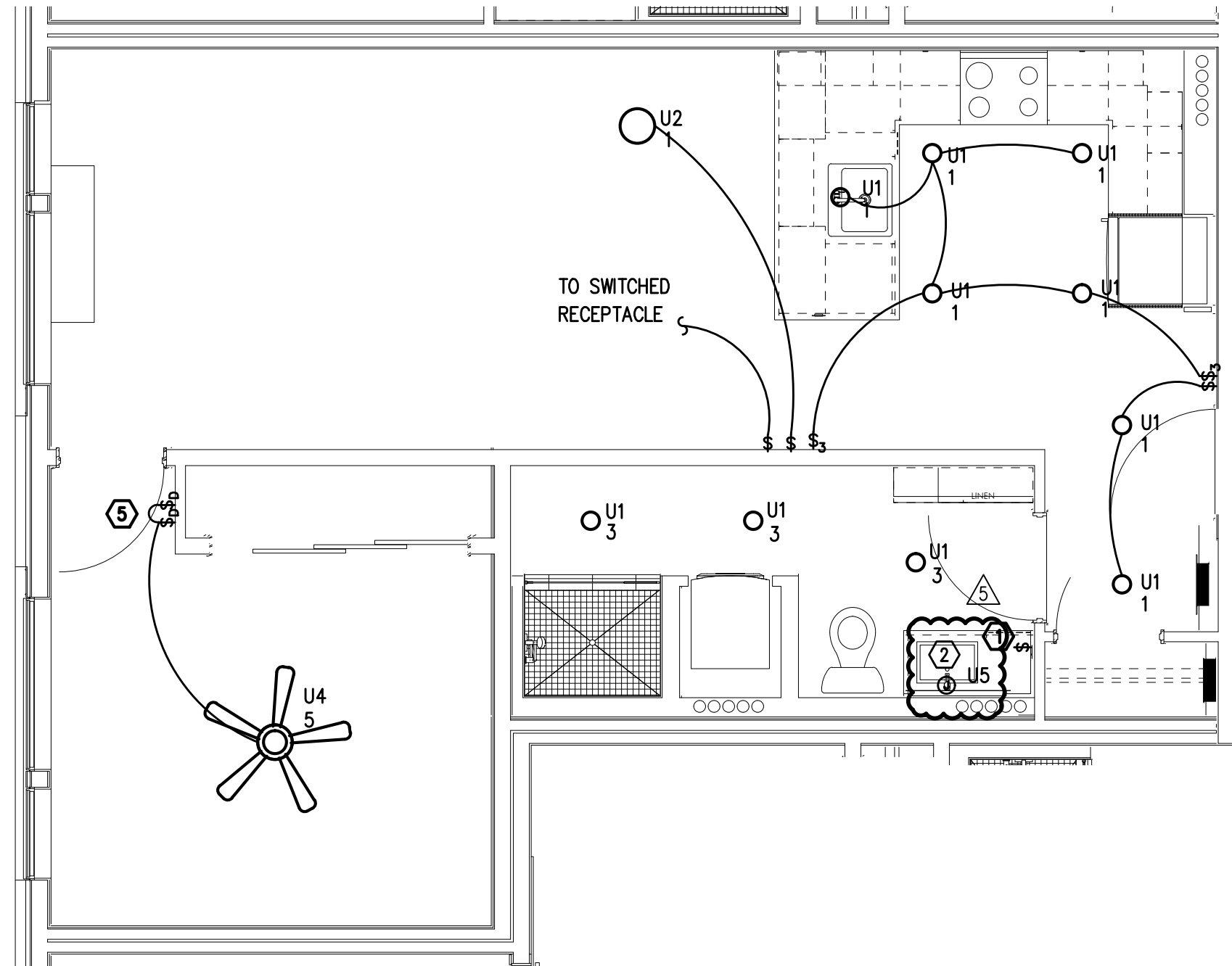
TYPICAL UNIT TYPE D
2 2 BED/1 BATH – LIGHTING PLAN
E4.02 SCALE: 1/4" = 1'-0"



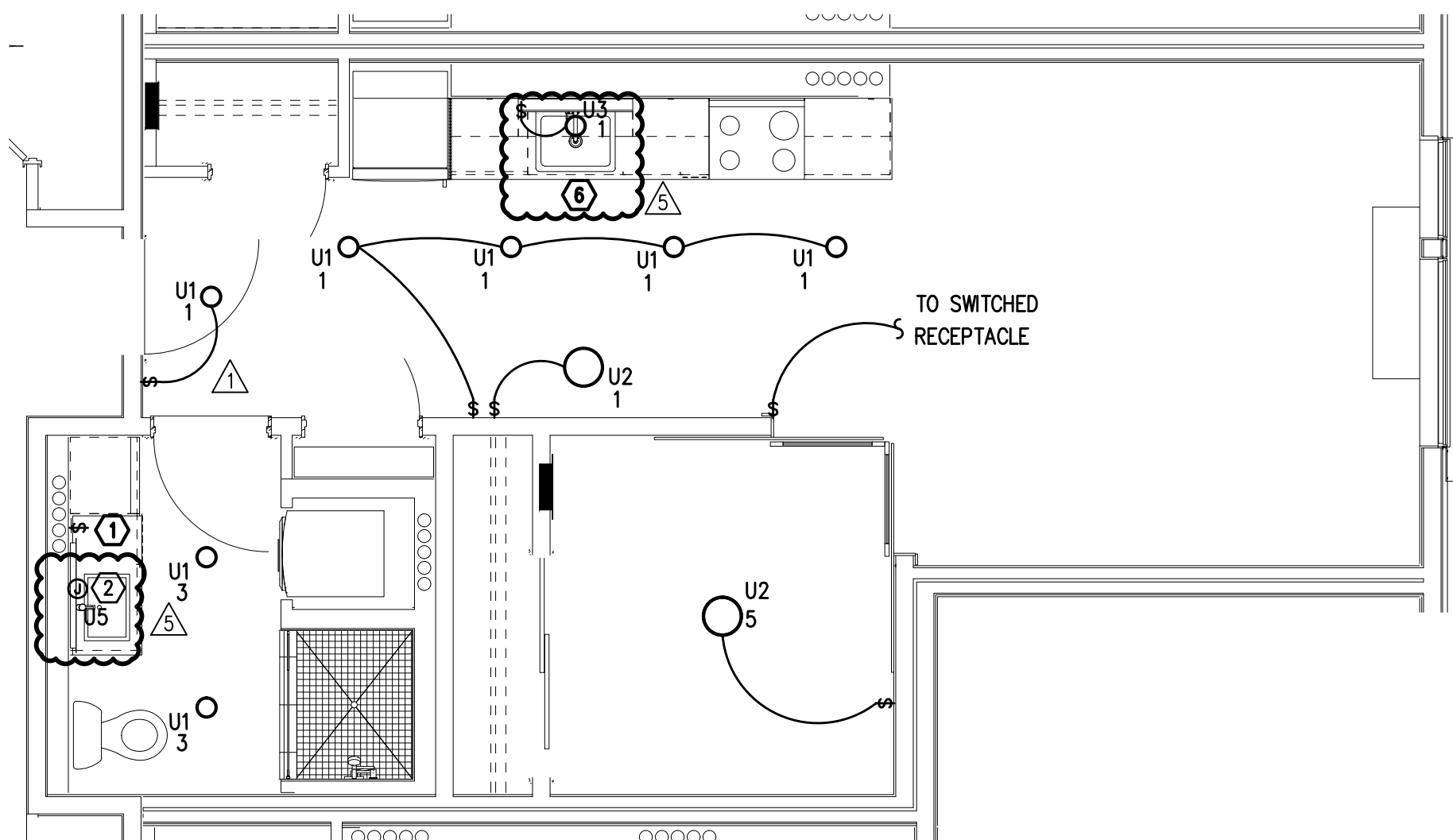
TYPICAL UNIT TYPE D-ADA
3 2 BED/1 BATH – LIGHTING PLAN
E4.02 SCALE: 1/4" = 1'-0"



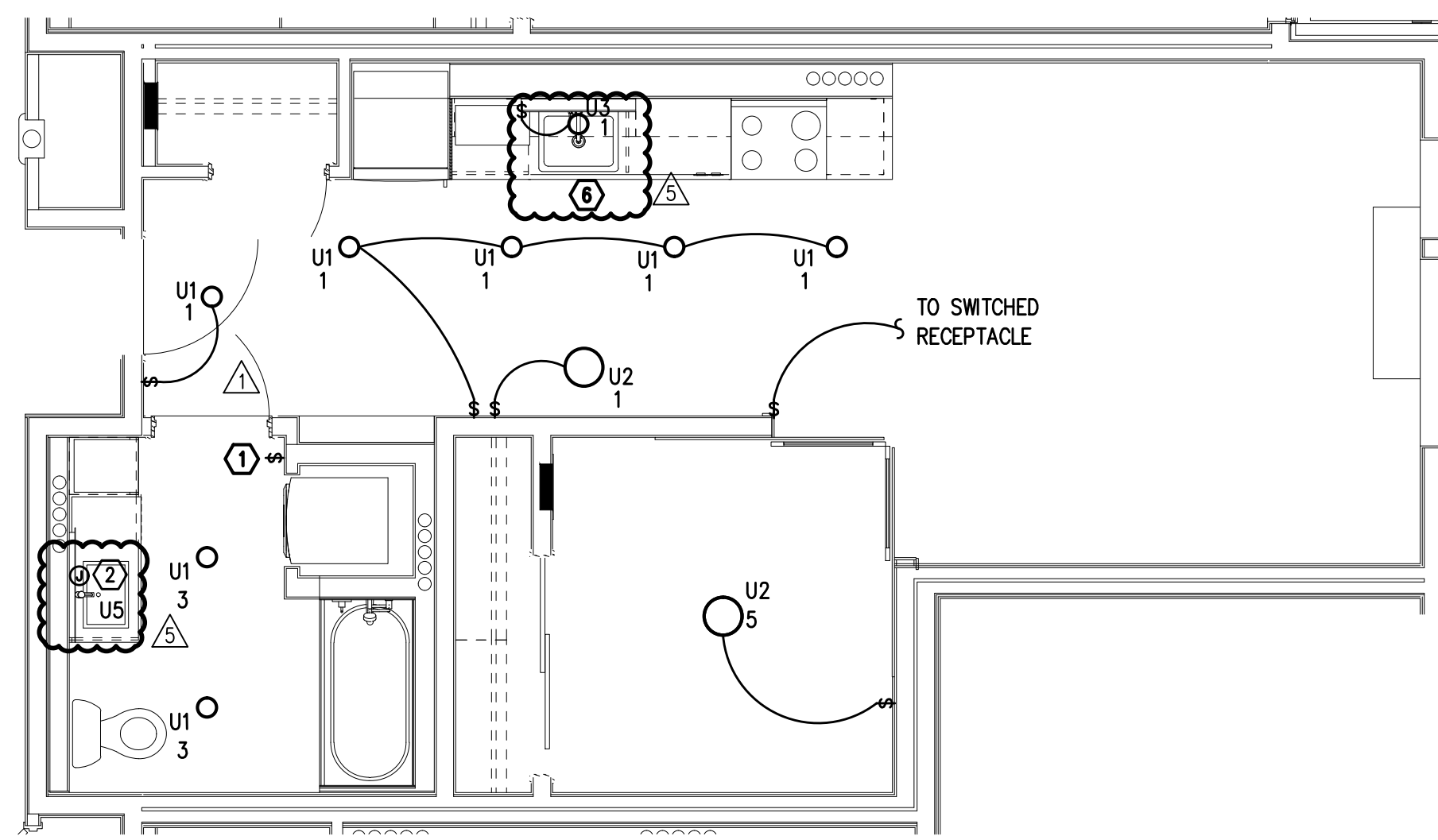
2
E4.02
TYPICAL UNIT TYPE E
2 BED/2 BATH – LIGHTING PLAN
SCALE: 1/4" = 1'-0"



3
E4.02
TYPICAL UNIT TYPE F
1 BED/1 BATH – LIGHTING PLAN
SCALE: 1/4" = 1'-0"



1
E4.03
TYPICAL UNIT TYPE G
0 BED/1 BATH – LIGHTING PLAN
SCALE: 1/4" = 1'-0"



1
E4.03
TYPICAL UNIT TYPE G-ADA
0 BED/1 BATH – LIGHTING PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL DEVICES AND FIXTURES.
- REFER TO SHEET E1.14 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
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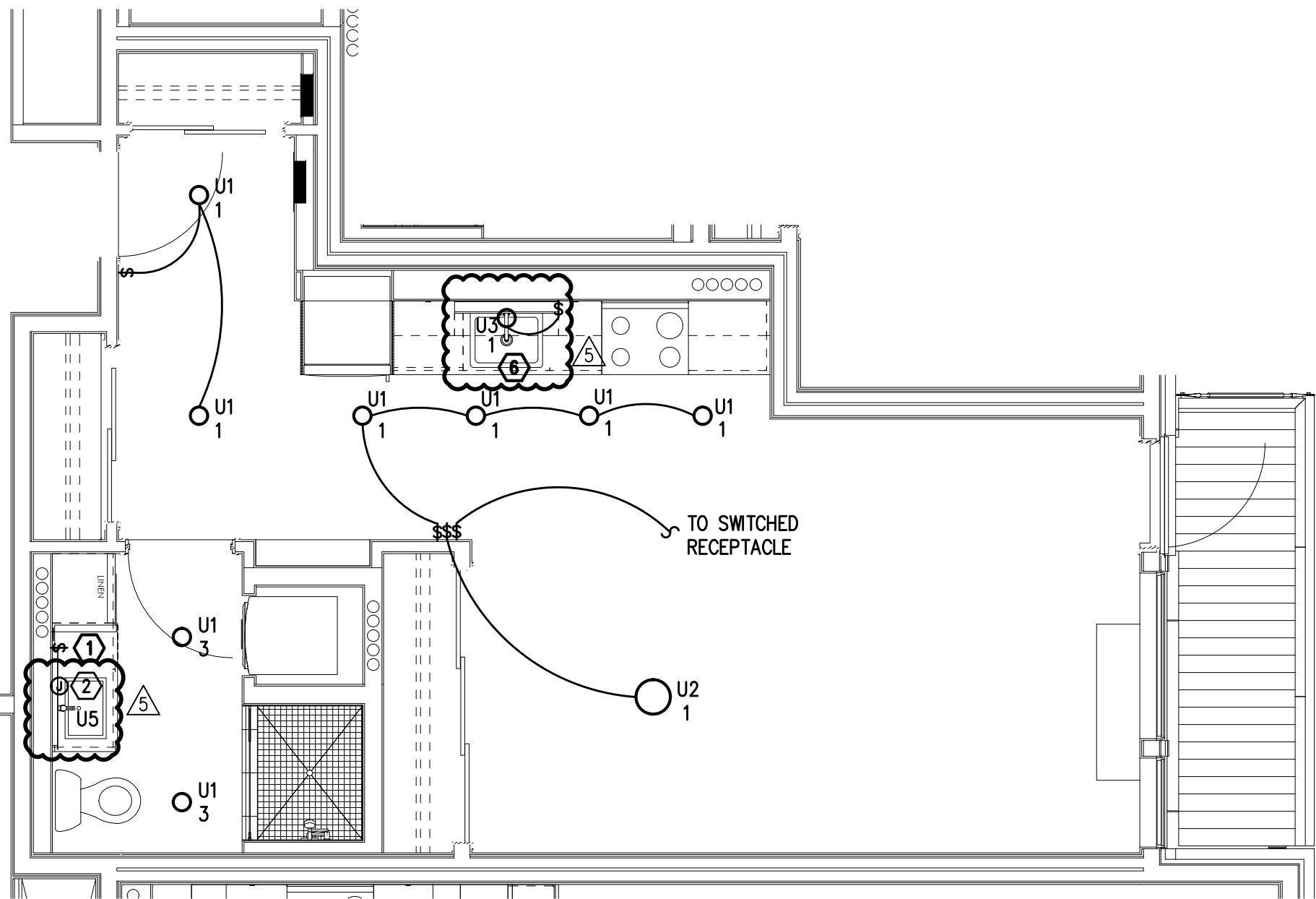
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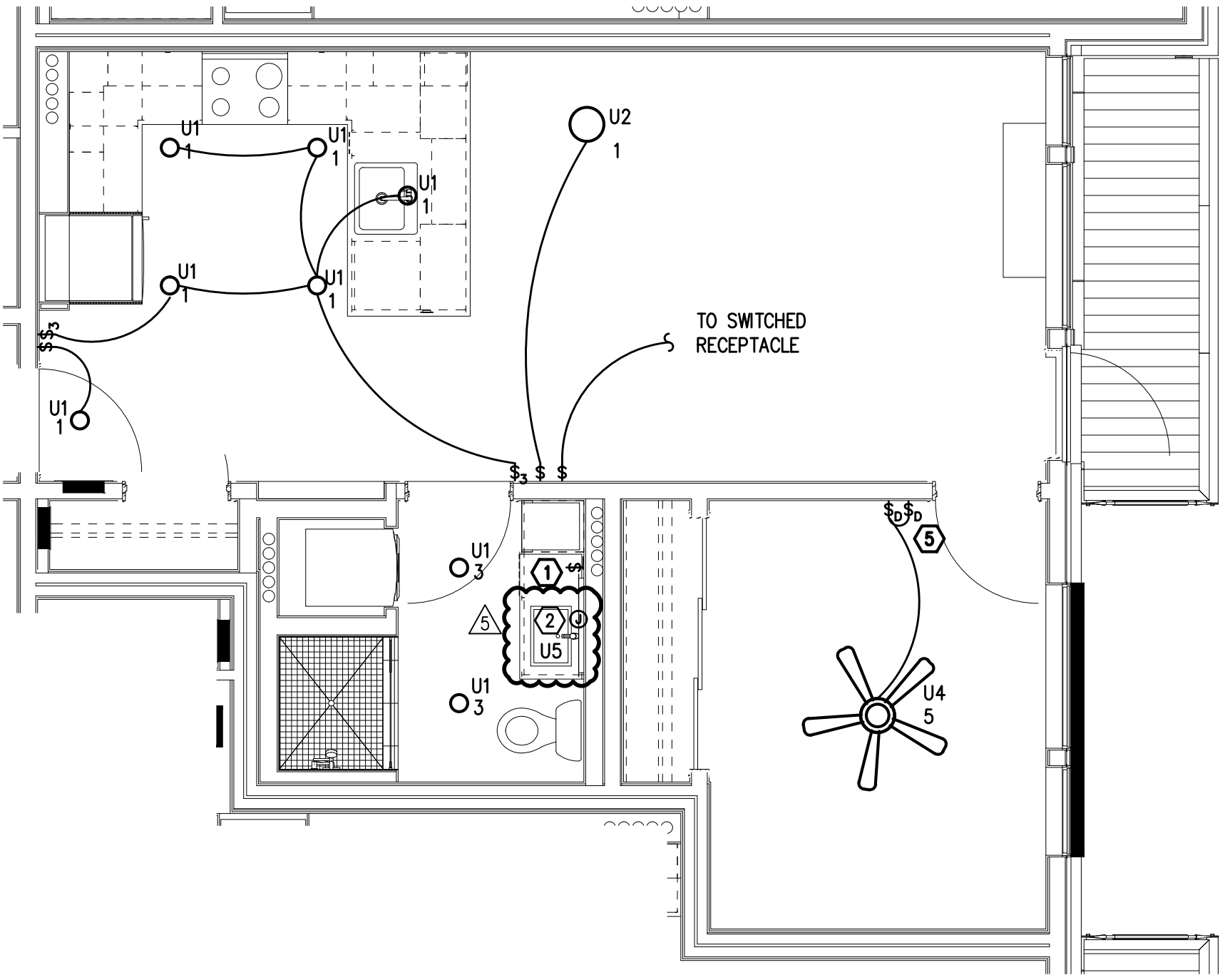
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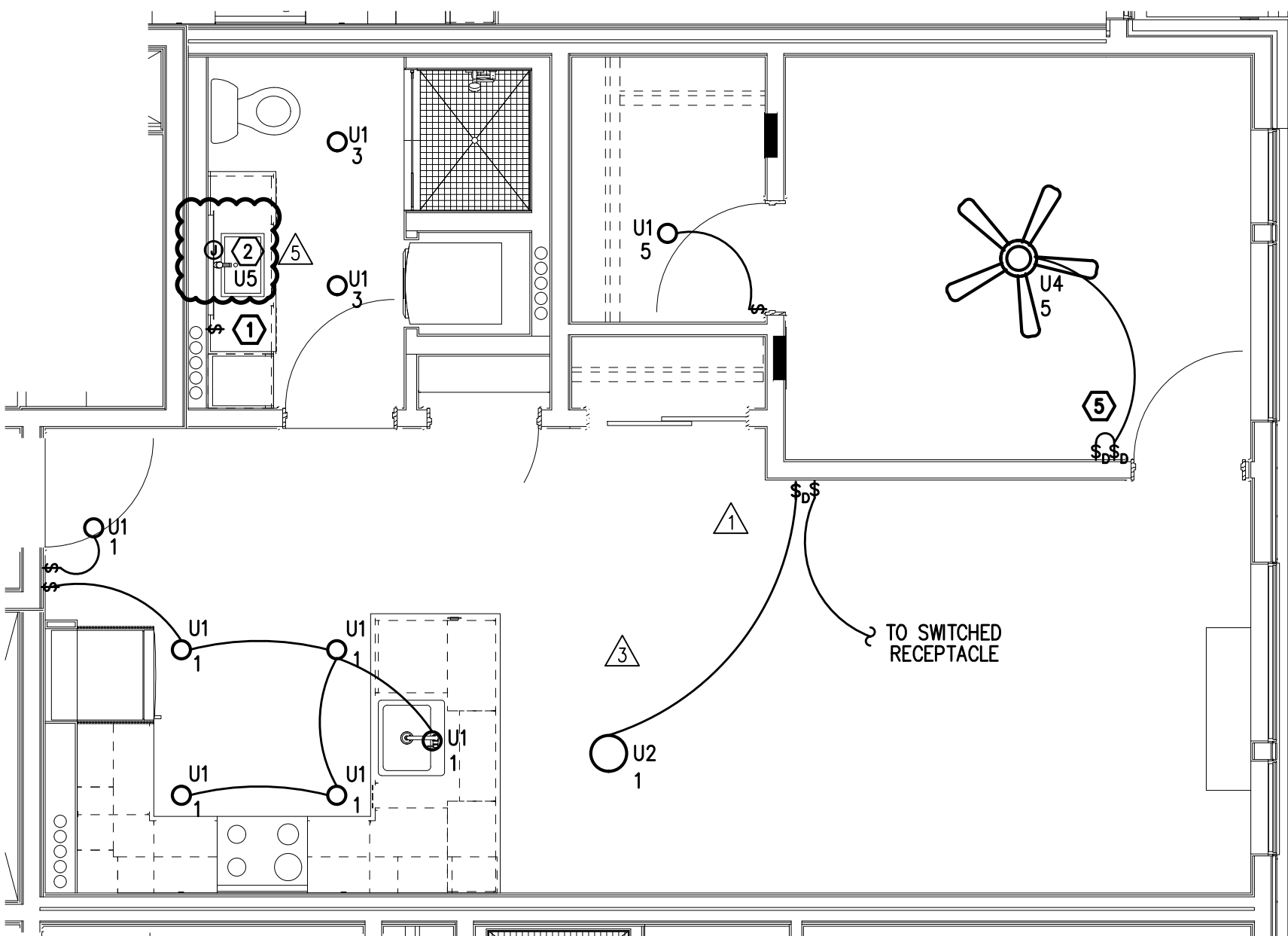
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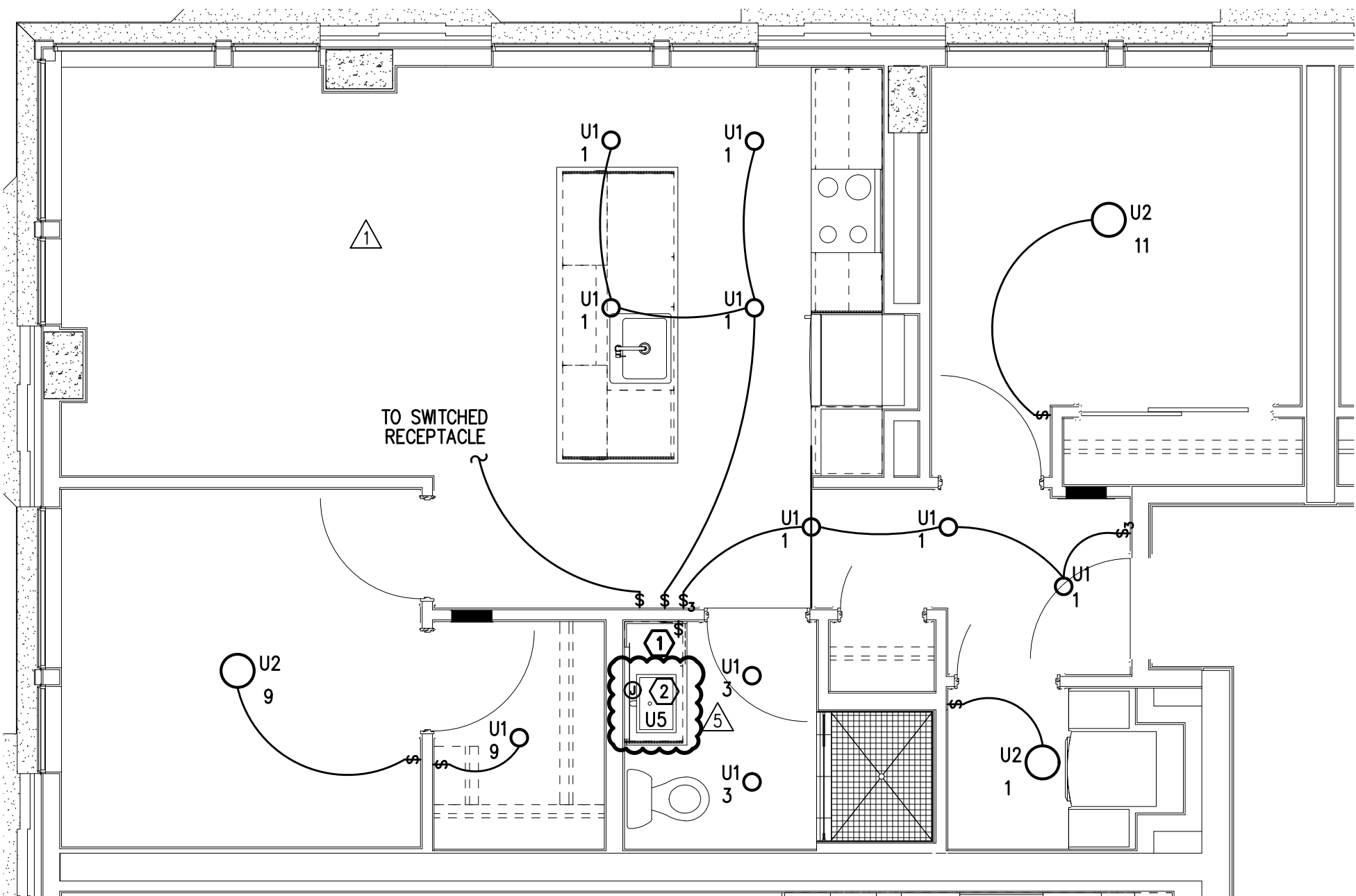
TYPICAL UNIT TYPE H
2 0 BED/1 BATH – LIGHTING PLAN
E4.03 SCALE: 1/4" = 1'-0"



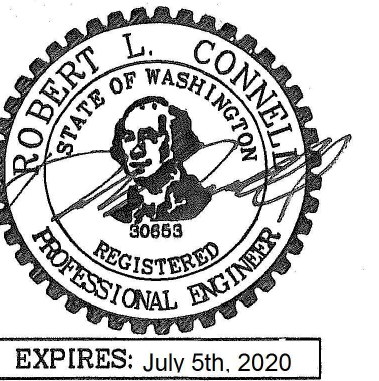
TYPICAL UNIT TYPE I
3 1 BED/1 BATH – LIGHTING PLAN
E4.03 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE J
1 1 BED/1 BATH – LIGHTING PLAN
E4.04 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE K
2 2 BED/1 BATH – LIGHTING PLAN
E4.04 SCALE: 1/4" = 1'-0"



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312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

SHEET:
E4.05

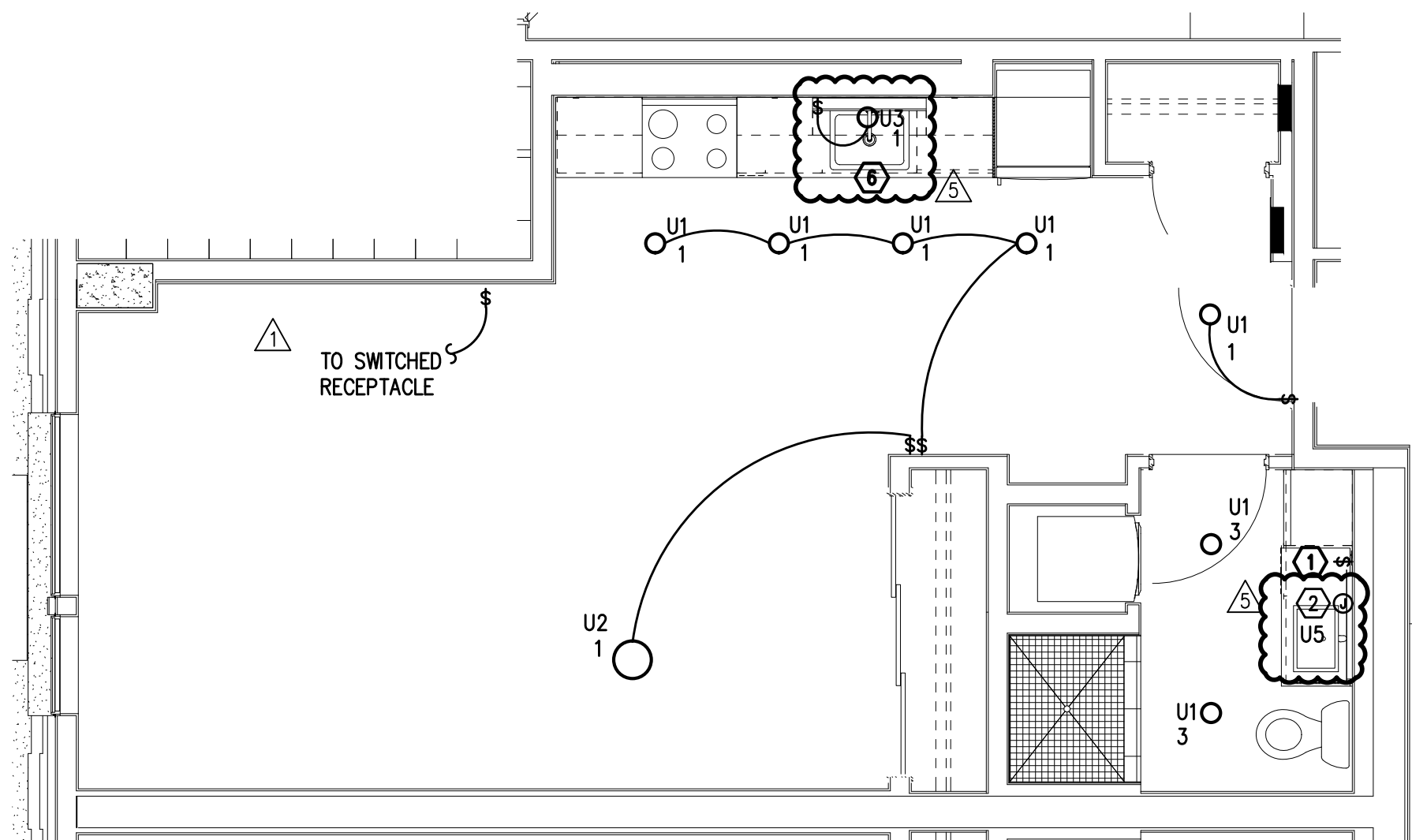
MEIA Consulting Engineers
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WWW.MEIA-ENG.COM

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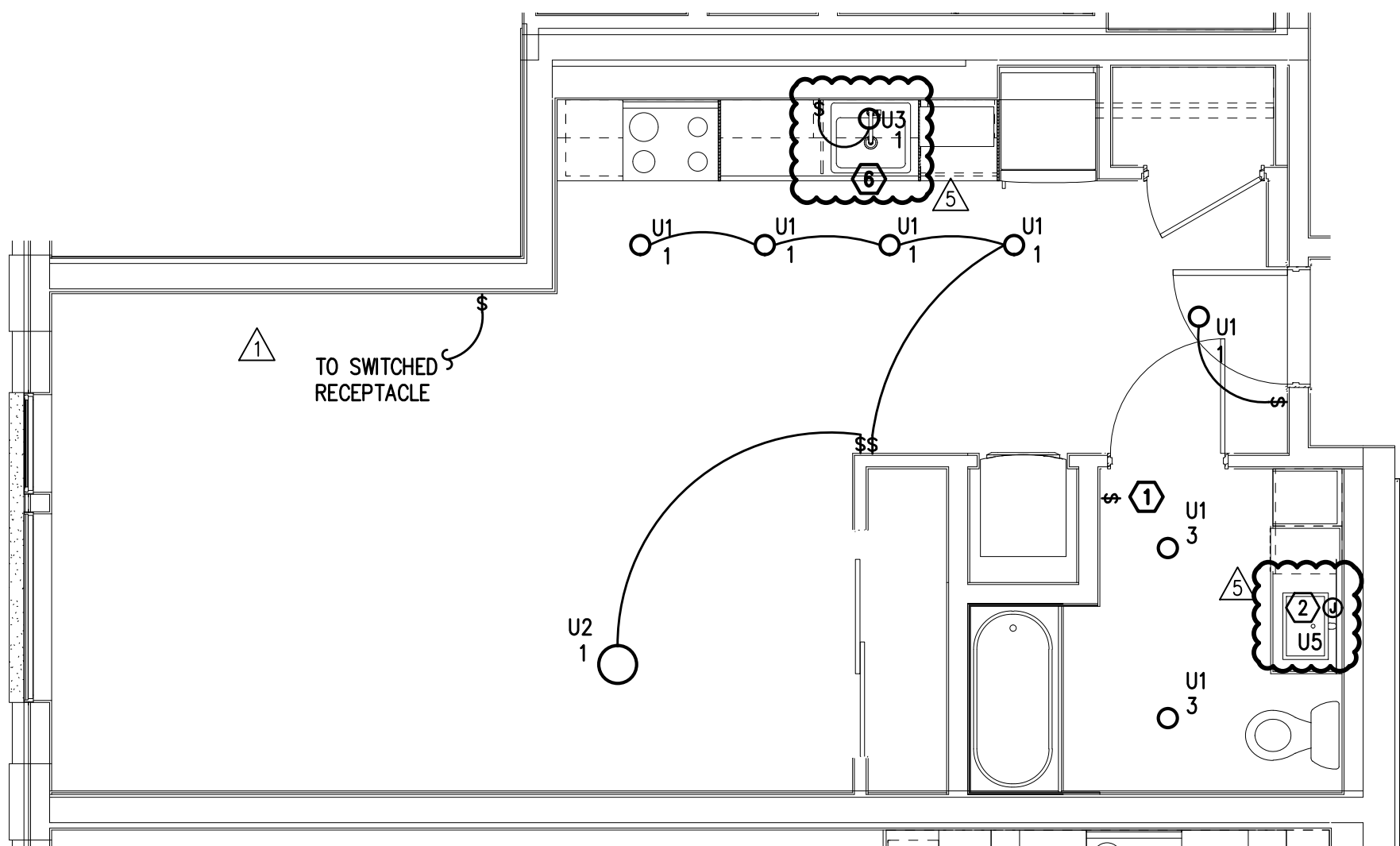
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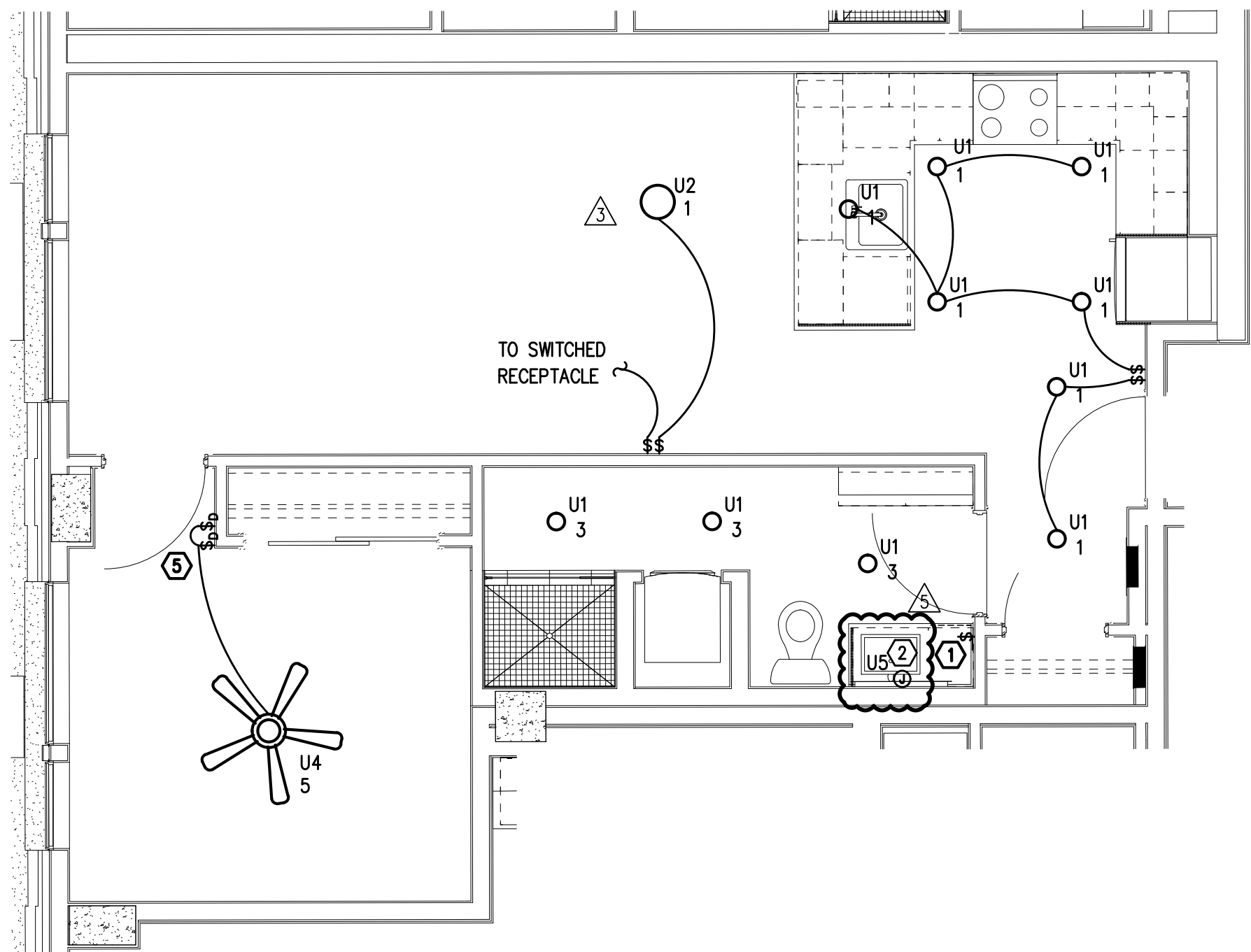
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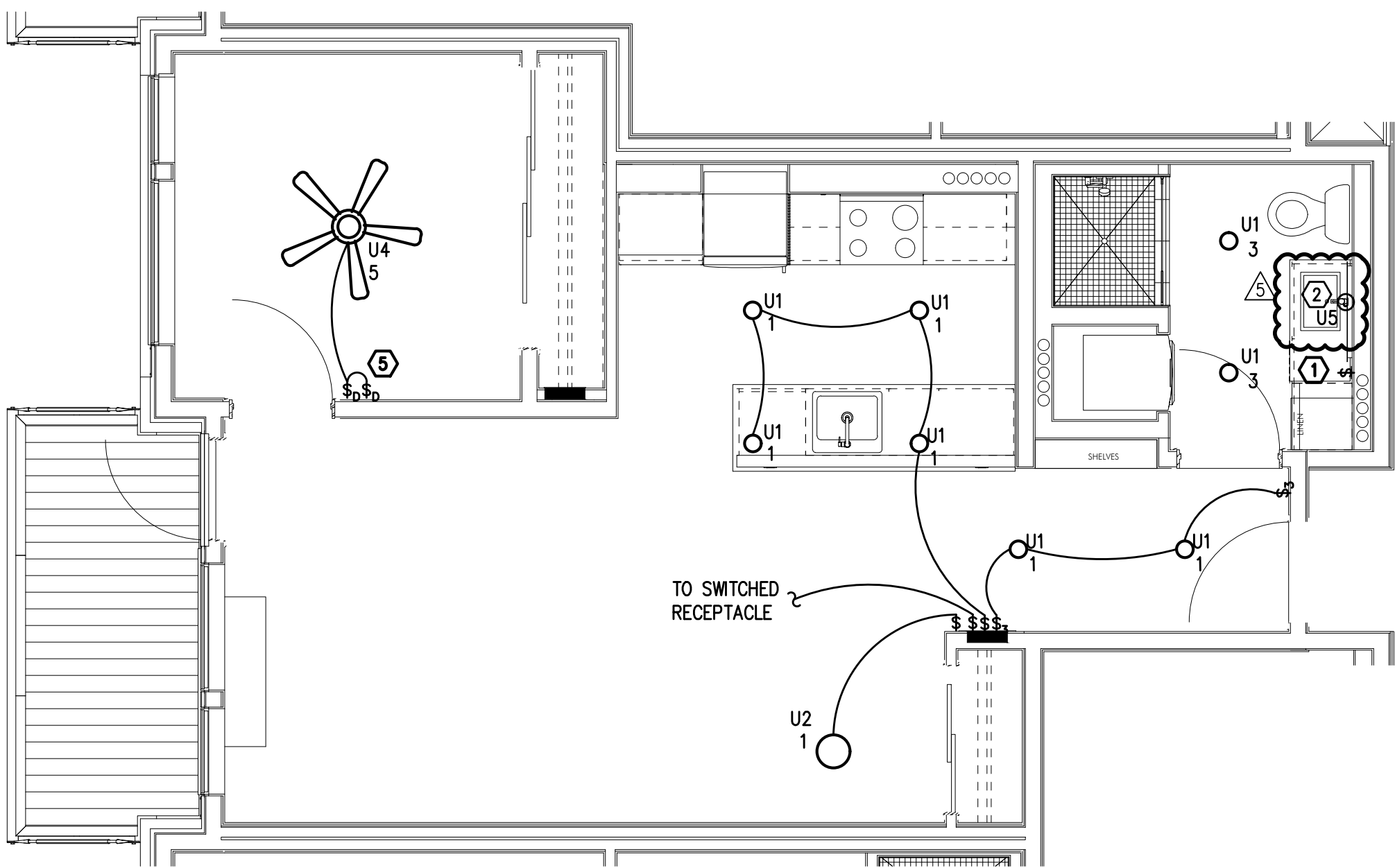
TYPICAL UNIT TYPE L
1 0 BED/1 BATH – LIGHTING PLAN
E4.05 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE L-ADA
1 0 BED/1 BATH – LIGHTING PLAN
E4.05 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE M
2 1 BED/1 BATH – LIGHTING PLAN
E4.05 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE N
3 1 BED/1 BATH – LIGHTING PLAN
E4.05 SCALE: 1/4" = 1'-0"



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312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

SHEET:
E4.06

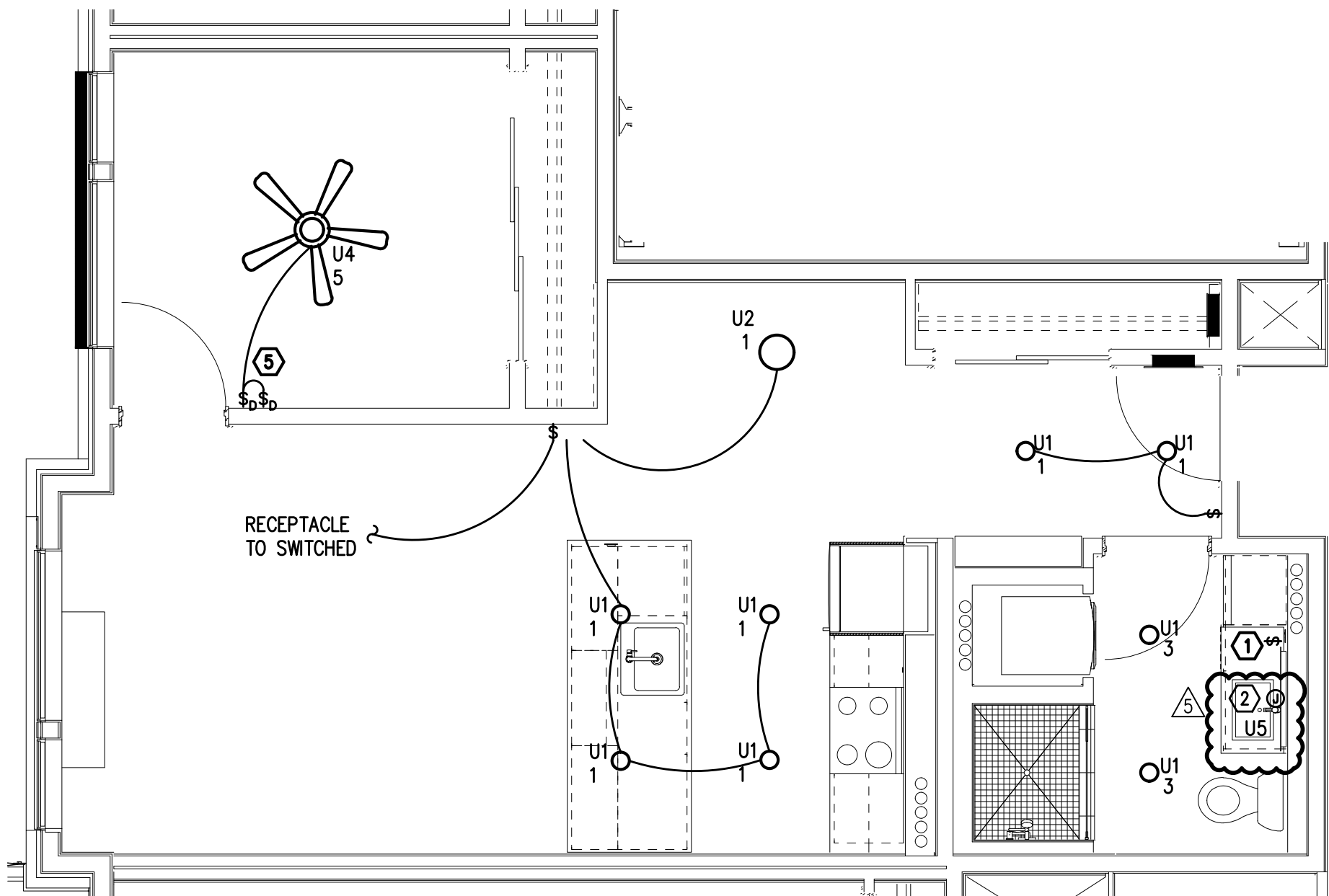
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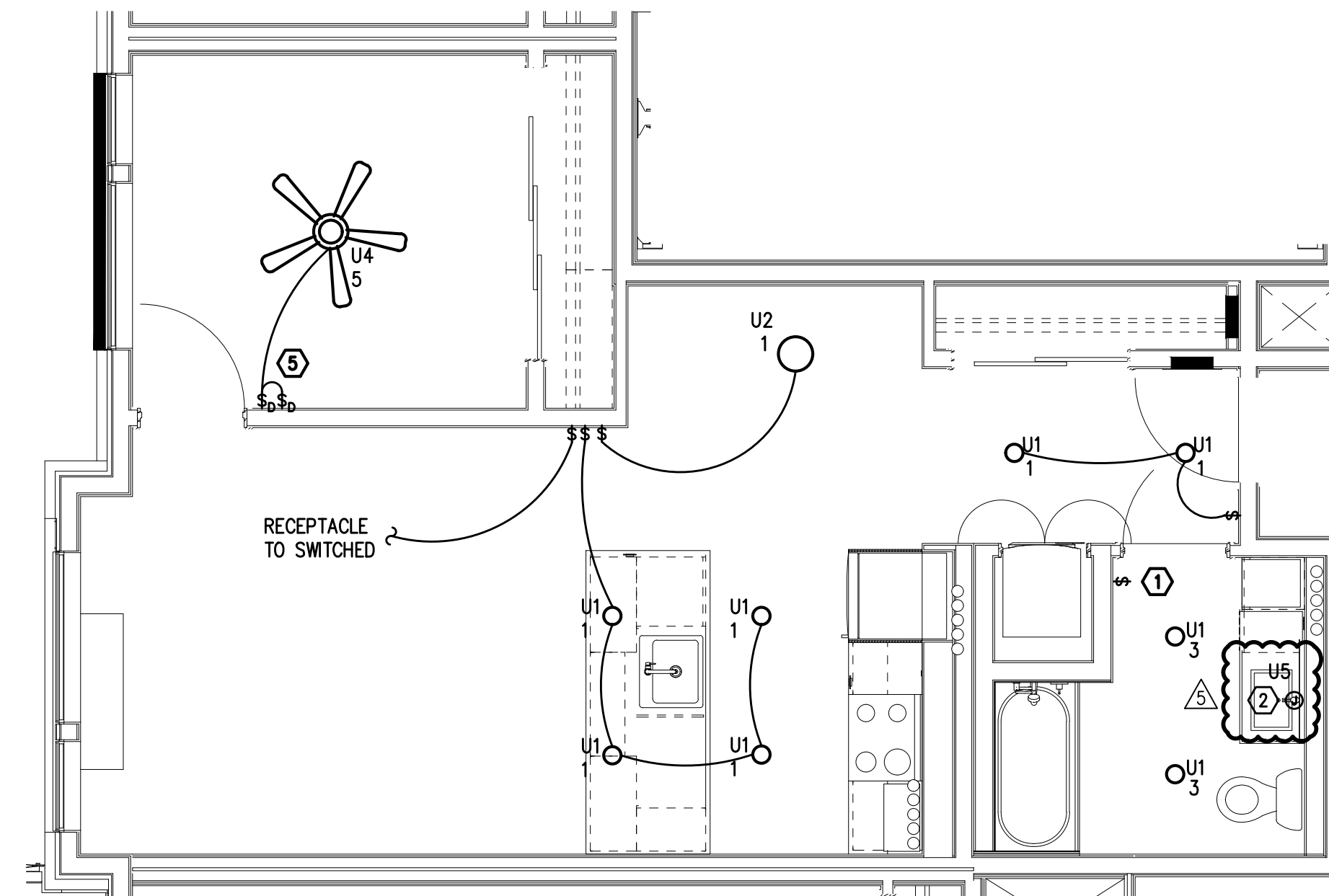
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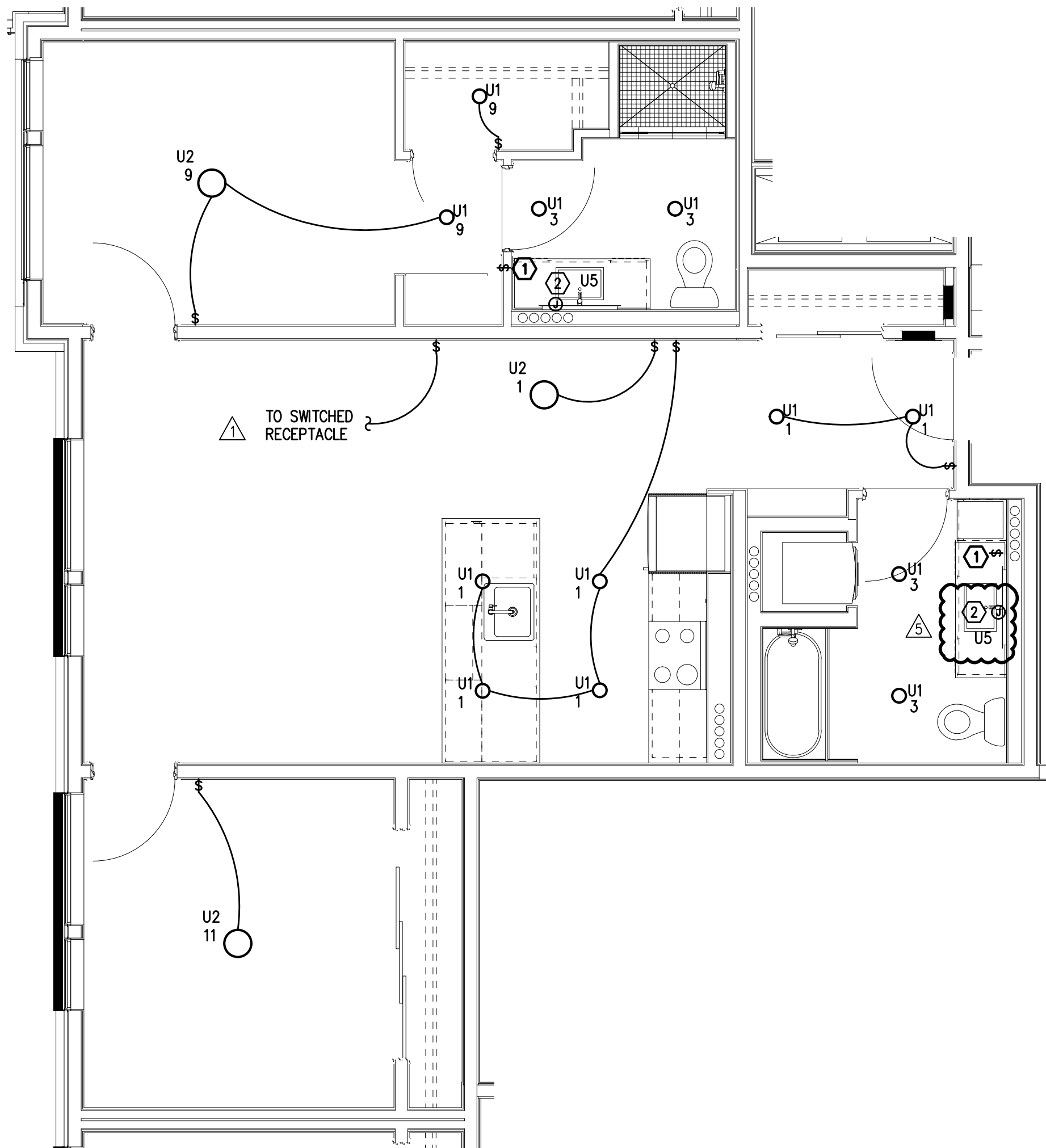
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1
TYPICAL UNIT TYPE O
1 BED/1 BATH - LIGHTING PLAN
E4.06 SCALE: 1/4" = 1'-0"



1
TYPICAL UNIT TYPE O-ADA
1 BED/1 BATH - LIGHTING PLAN
E4.06 SCALE: 1/4" = 1'-0"





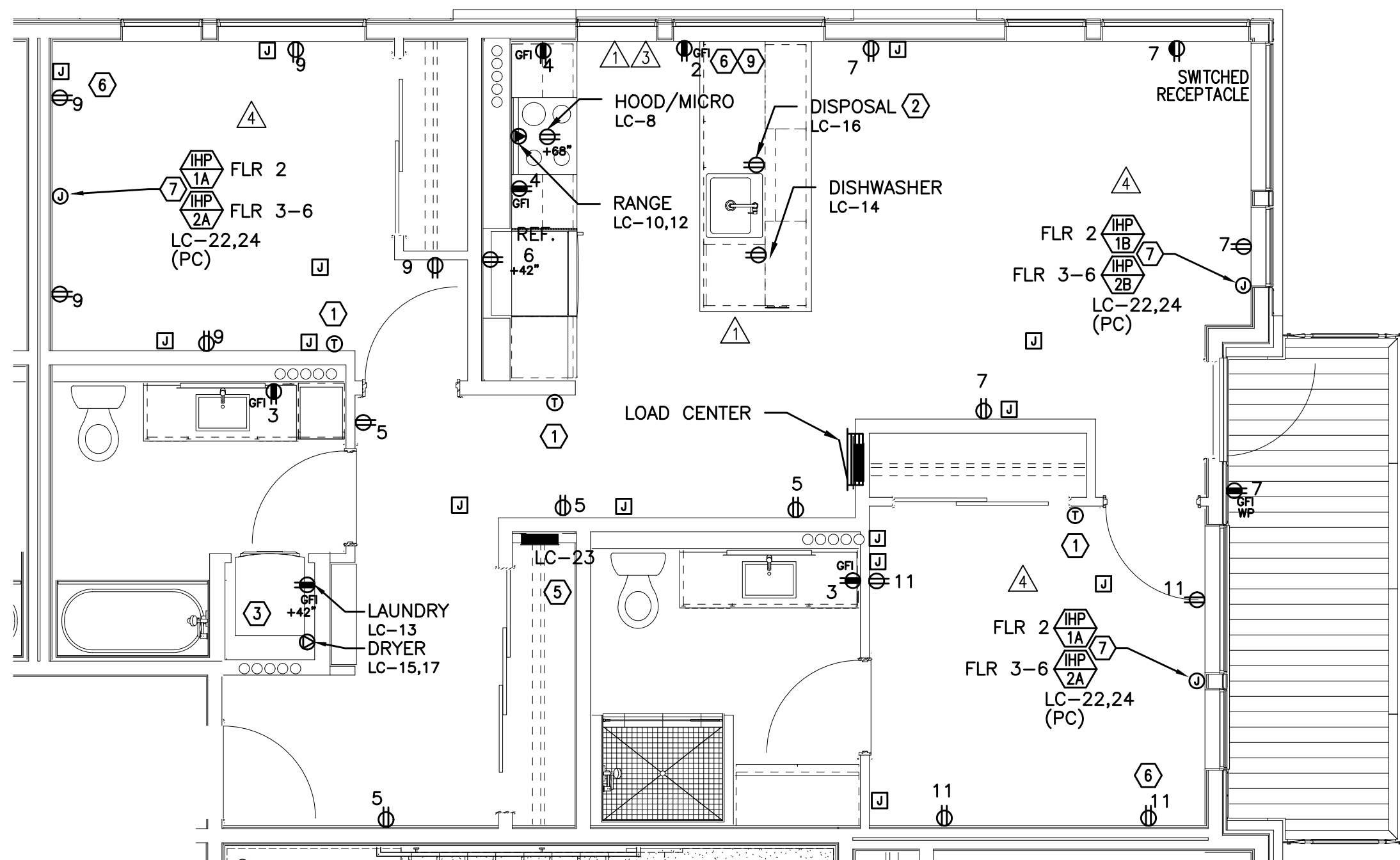
EXPIRES: July 6th, 2020

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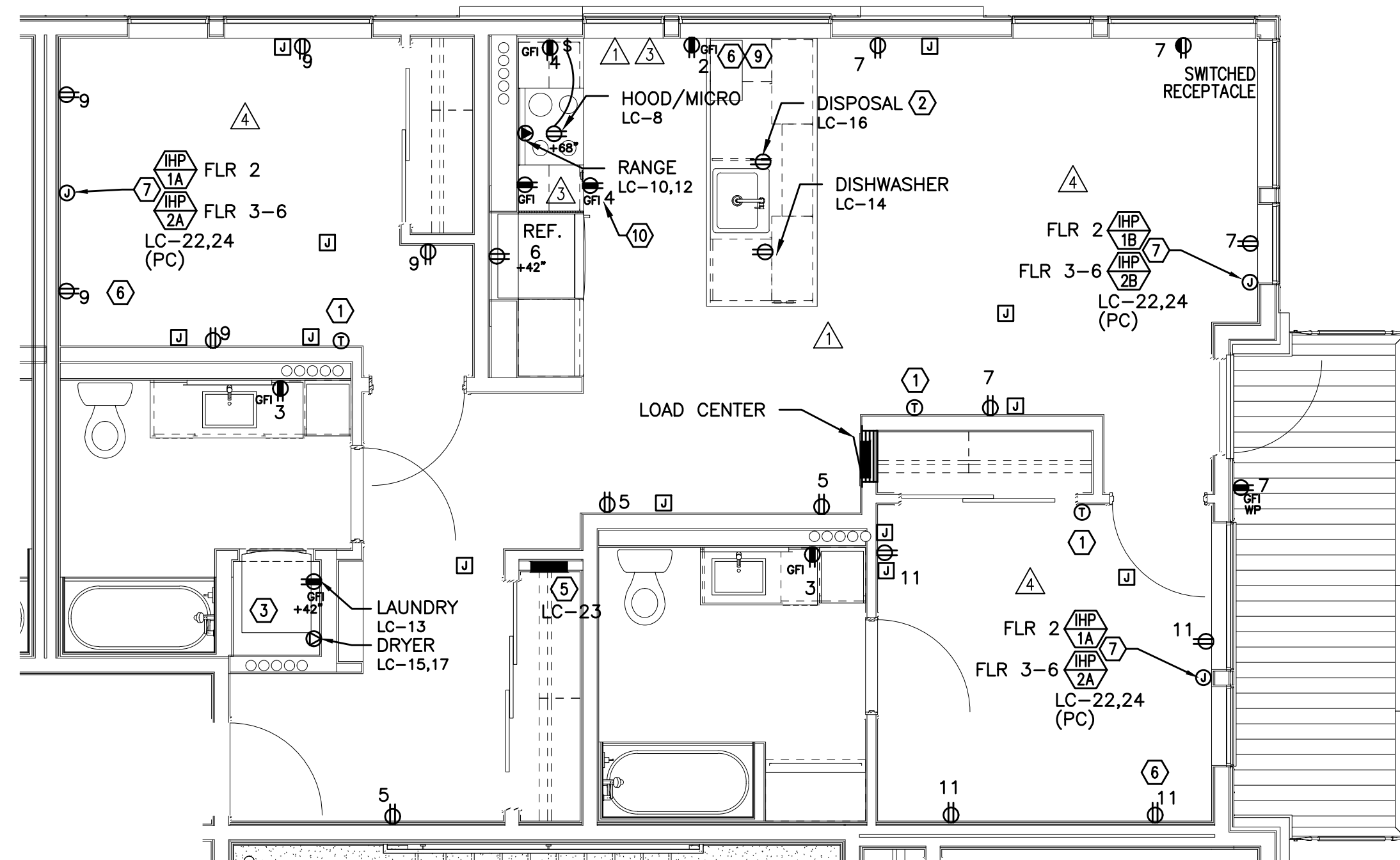
REVISIONS

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- △ PLAN REVIEW 09.17.2020



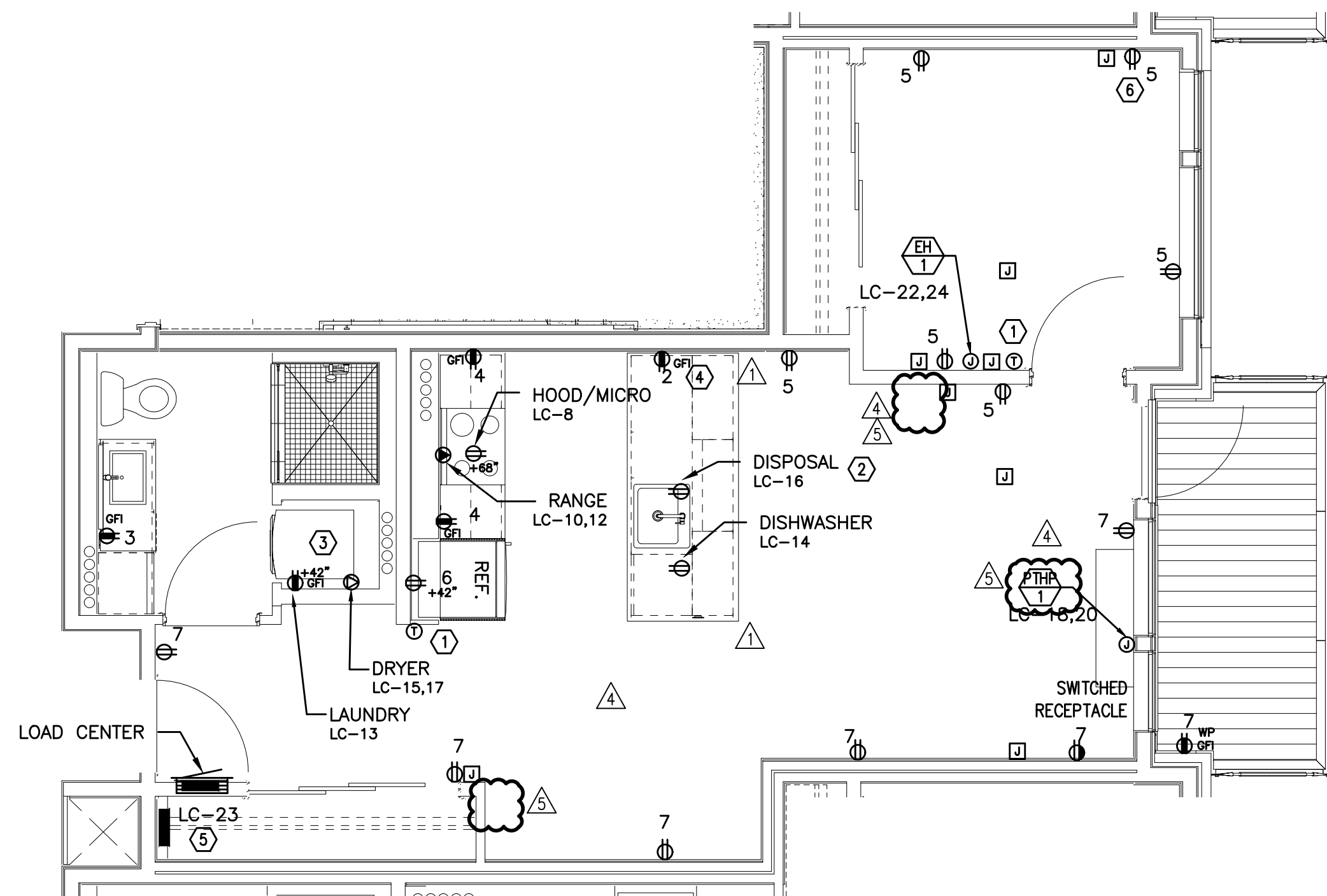
TYPICAL UNIT TYPE A

1 2 BED/2 BATH – POWER PLAN
E4.11 SCALE: 1/4" = 1'-0"



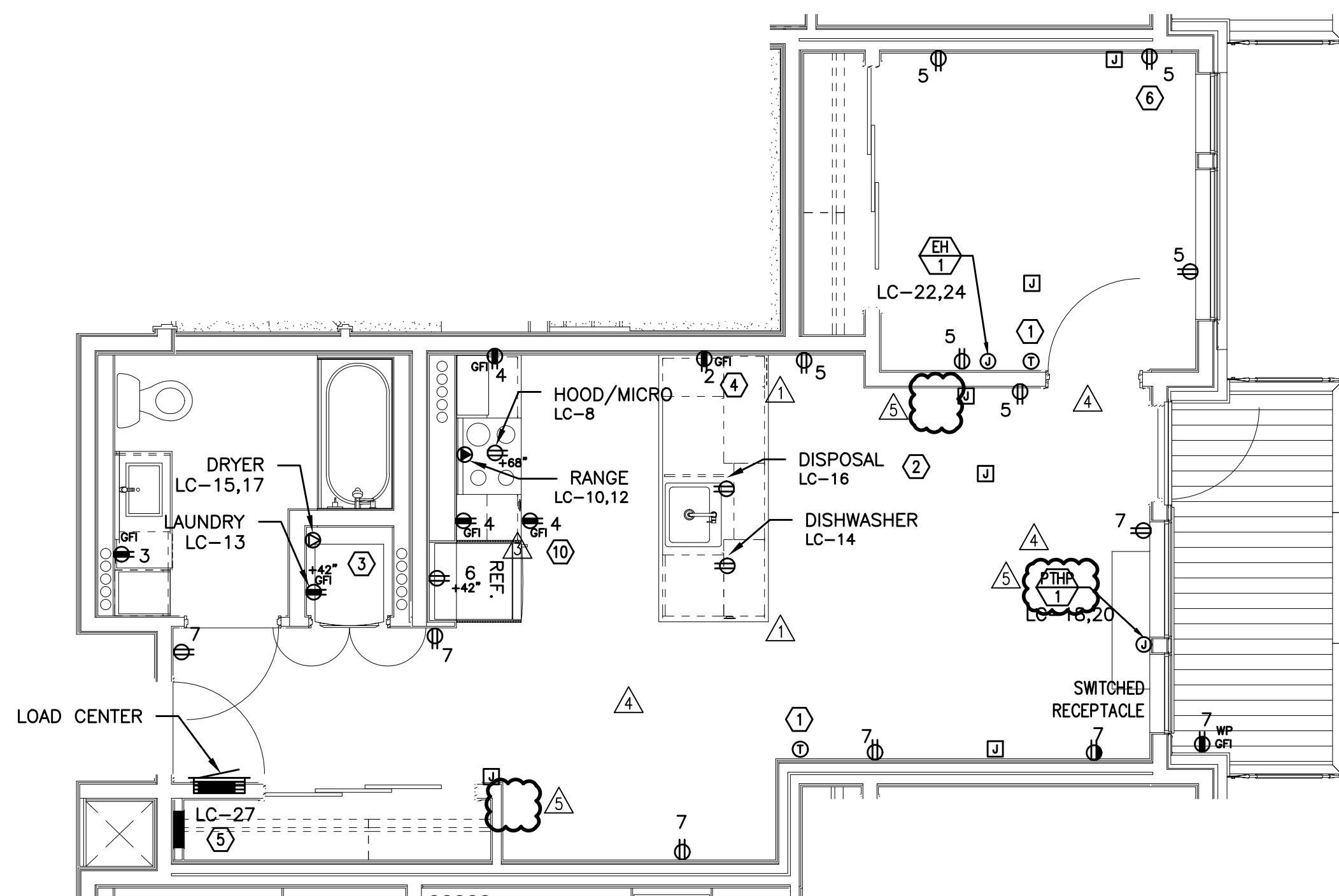
TYPICAL UNIT TYPE A-ADA

2 2 BED/2 BATH – POWER PLAN
E4.11 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE B

3 1 BED/1 BATH – POWER PLAN
E4.11 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE B-ADA

4 1 BED/1 BATH – POWER PLAN
E4.11 SCALE: 1/4" = 1'-0"

GENERAL NOTES:

- A. KITCHEN RECEPTACLES LOCATED IN ISLANDS OR PENINSULAS WHERE THE BACK SPLASH WILL NOT ACCOMMODATE VERTICAL PLACEMENT OR THE DUPLEX RECEPTACLE, THE CONTRACTOR SHALL ROTATE THE DEVICE 90 DEGREES SO THAT THE RECEPTACLE IS INSTALLED HORIZONTALLY.
- B. REFER TO DETAILS ON SHEET E1.23 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.
- D. ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL DEVICES AND FIXTURES.
- E. REFER TO SHEET E1.17 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
- F. RECEPTACLE FOR PTHP UNIT SHALL BE LOCATED BELOW THE UNIT, NEAR THE BASE OF THE WALL SUCH THAT THE CORD SET IS CONCEALED AS MUCH AS POSSIBLE. COORDINATE INSTALLATION WITH THE MECHANICAL INSTALLER.
- G. COORDINATE WITH THE 'T' SERIES SHEETS AND PROVIDE ROUGH IN FOR LOW VOLTAGE SYSTEMS (□) REFERS TO ROUGH IN BOXES.

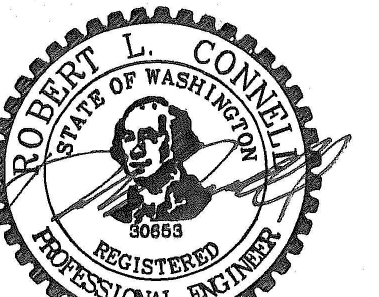
KEYED NOTES:

1. PROVIDE WIRE CONNECTION FOR THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN. THERMOSTATS TO BE MOUNTED AT 48" AFF MAX. TO HIGHEST OPERABLE PART.
2. PROVIDE ONE 20A, 120V, 1P GFCI DUPLEX RECEPTACLE UNDER KITCHEN SINK FOR DISPOSAL POWER CONNECTION. DISPOSAL TO BE PROVIDED WITH "SAFEAIRE" SINK DISPOSAL AIR SWITCH, MOUNTED PER ARCHITECT'S DIRECTION. VERIFY DEVICE FINISH WITH ARCHITECT PRIOR TO ORDERING.
3. REFER TO DETAIL 2/E1.17 FOR TYPICAL LAUNDRY ALCOVE RECEPTACLE LOCATIONS. COORDINATE INSTALLATION WITH MECHANICAL & PLUMBING CONTRACTOR.
4. MOUNT DEVICES HORIZONTALLY, JUST UNDER THE EDGE OF THE COUNTER TOP.
5. PROVIDE ONE 15A, RECEPTACLE CIRCUIT FROM TENANT LOAD CENTER FOR TELECOM SMART PANEL. COORDINATE WORK WITH SERVICE PROVIDER FOR EXACT LOCATION AND FINAL CONNECTION.
6. PROVIDE ONE 20A, 120V, 1P RECEPTACLE WITH USB PORT, MOUNTED AT 44" A.F.F. (MAX) AT KITCHEN ISLAND/PENINSULA COUNTER & AT 18" AFF IN BEDROOMS. CONSULT ARCHITECT AND/OR INTERIOR DESIGNER FOR ADDITIONAL LOCATIONS WHERE REQUIRED.
7. INDOOR HEAT PUMP UNIT INTERCONNECTED WITH OUTDOOR UNIT LOCATED ON ROOF. CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL HVAC INSTALLER AND MECHANICAL PLANS FOR EXACT POWER REQUIREMENTS & LOCATION OF EACH UNIT PRIOR TO ROUGH IN.
8. COORDINATE WITH MECHANICAL EQUIPMENT INSTALLER FOR EXACT POWER REQUIREMENTS, CONTROLS & LOCATION OF THRU-WALL FAN. TIE INTO BEDROOM RECEPTACLE CIRCUIT.
9. MOUNT DEVICES HORIZONTALLY, UNDER WINDOW SILL.
10. RECEPTACLE MOUNTED IN FACE OF CABINET.
11. COORDINATE WITH MECHANICAL EQUIPMENT INSTALLER FOR EXACT POWER REQUIREMENTS & LOCATION OF CONTINUOUS OPERATING EXHAUST FAN. TIE INTO LIVING ROOM LIGHTING RECEPTACLE CIRCUIT.

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PHN: (503) 234-0548
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CONTACT: DENISE TAYLOR

SHEET:

E4.11



EXPIRES: July 5th, 2020

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PROJECT # 2017-053
DATE: 11/06/2019

REVISIONS

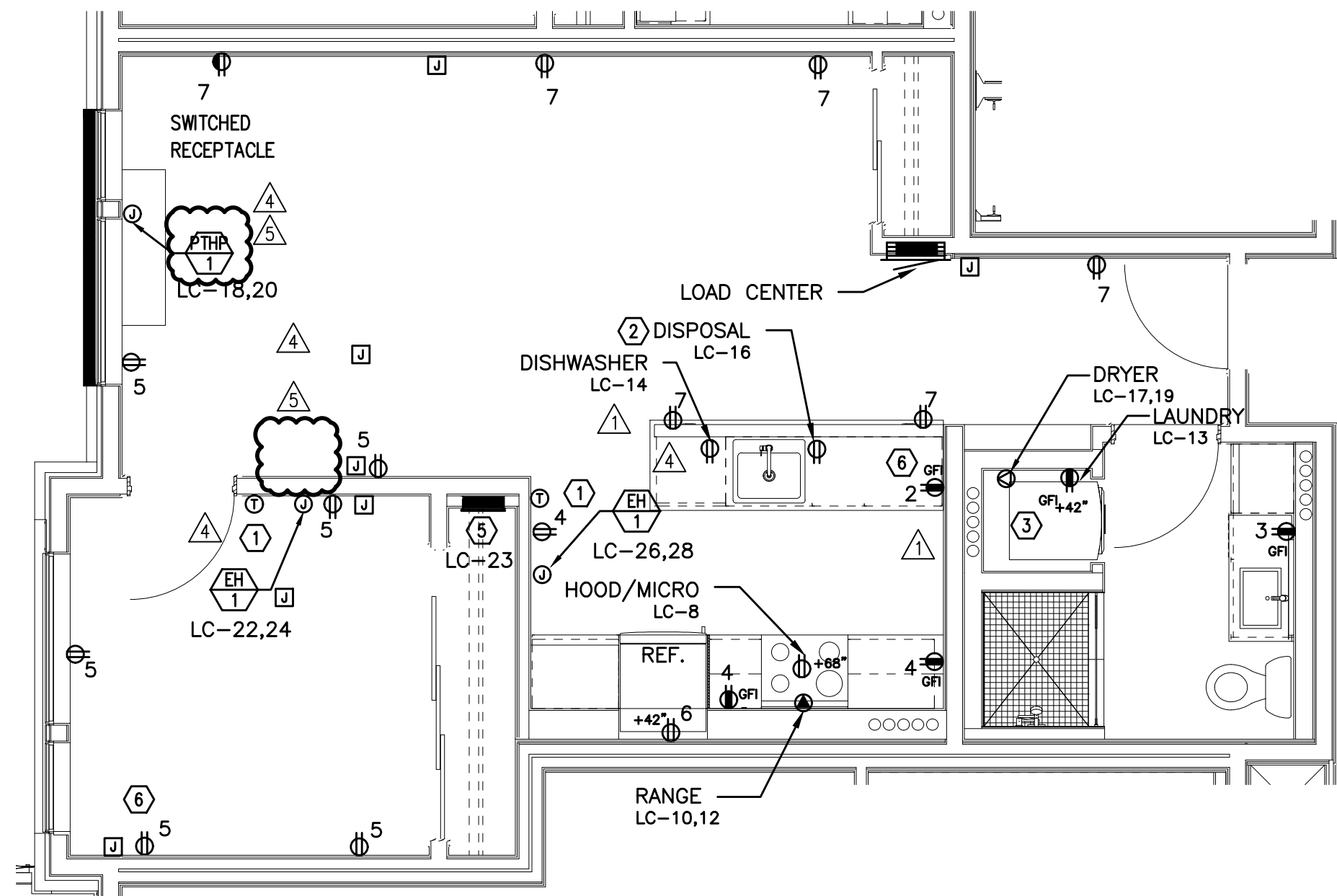
- △ PLAN REVIEW 01.24.2020
- △ PLAN REVIEW 03.13.2020
- △ PLAN REVIEW 04.24.2020
- △ PLAN REVIEW 08.10.2020
- △ PLAN REVIEW 09.17.2020

GENERAL NOTES:

- KITCHEN RECEPTACLES LOCATED IN ISLANDS OR PENINSULAS WHERE THE BACK SPLASH WILL NOT ACCOMMODATE VERTICAL PLACEMENT OR THE DUPLEX RECEPTACLE, THE CONTRACTOR SHALL ROTATE THE DEVICE 90 DEGREES SO THAT THE RECEPTACLE IS INSTALLED HORIZONTALLY.
- REFER TO DETAILS ON SHEET E1.23 FOR ADDITIONAL INFORMATION REGARDING ADA REACH REQUIREMENTS FOR RECEPTACLE AND SWITCH MOUNTING HEIGHT.
- 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.
- ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL DEVICES AND FIXTURES.
- REFER TO SHEET E1.14 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
- RECEPTACLE FOR PTHP UNIT SHALL BE LOCATED BELOW THE UNIT, NEAR THE BASE OF THE WALL SUCH THAT THE CORD SET IS CONCEALED AS MUCH AS POSSIBLE. COORDINATE INSTALLATION WITH THE MECHANICAL INSTALLER.
- COORDINATE WITH THE 'T' SERIES SHEETS AND PROVIDE ROUGH IN FOR LOW VOLTAGE SYSTEMS (□) REFERS TO ROUGH IN BOXES.

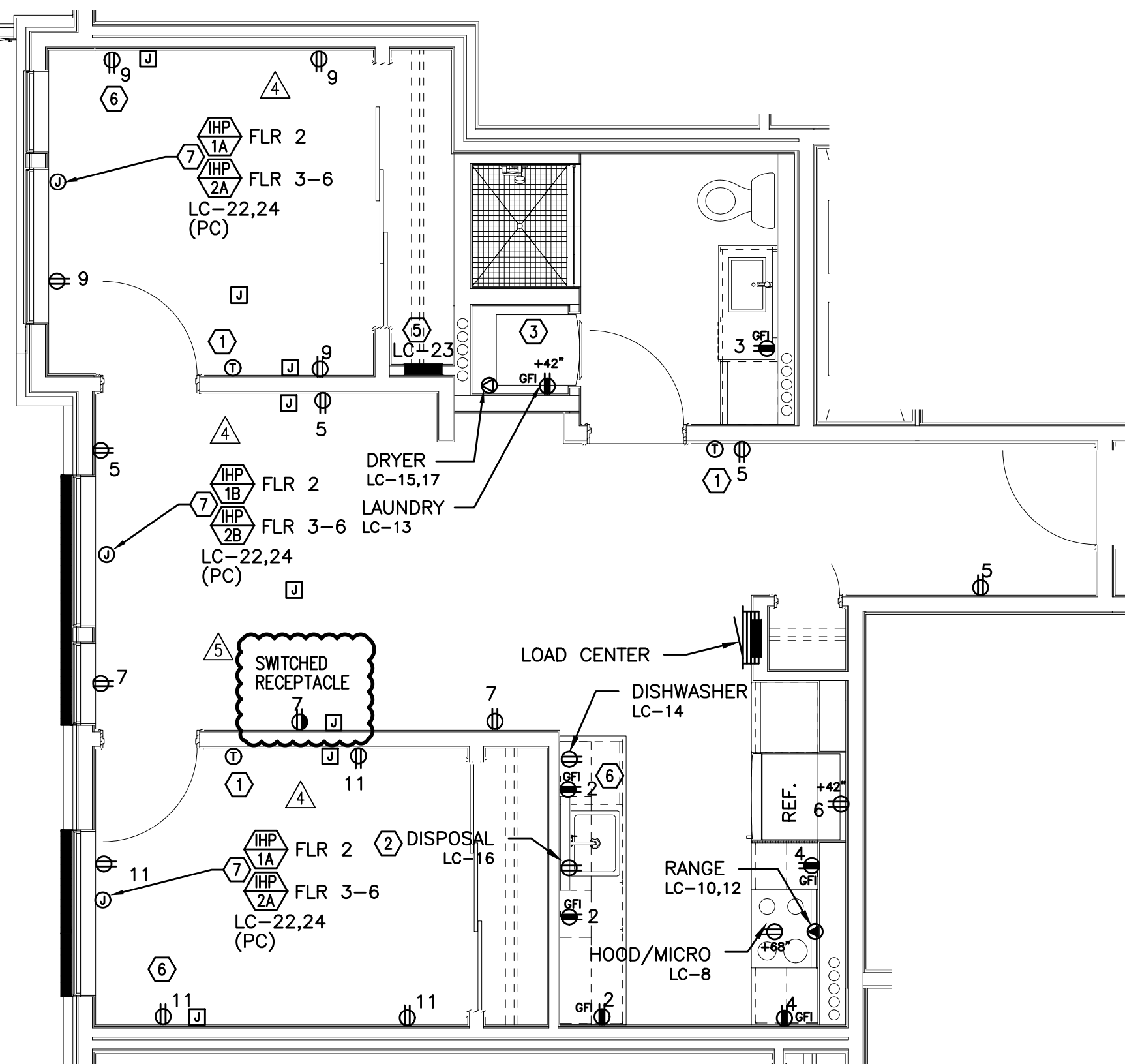
KEYED NOTES:

- PROVIDE WIRE CONNECTION FOR THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN. THERMOSTATS TO BE MOUNTED AT 48" AFF MAX. TO HIGHEST OPERABLE PART.
- PROVIDE ONE 20A, 120V, 1P GFCI DUPLEX RECEPTACLE UNDER KITCHEN SINK FOR DISPOSAL POWER CONNECTION. DISPOSAL TO BE PROVIDED WITH "SAFEAIRE" SINK DISPOSAL AIR SWITCH, MOUNTED PER ARCHITECT'S DIRECTION. VERIFY DEVICE FINISH WITH ARCHITECT PRIOR TO ORDERING.
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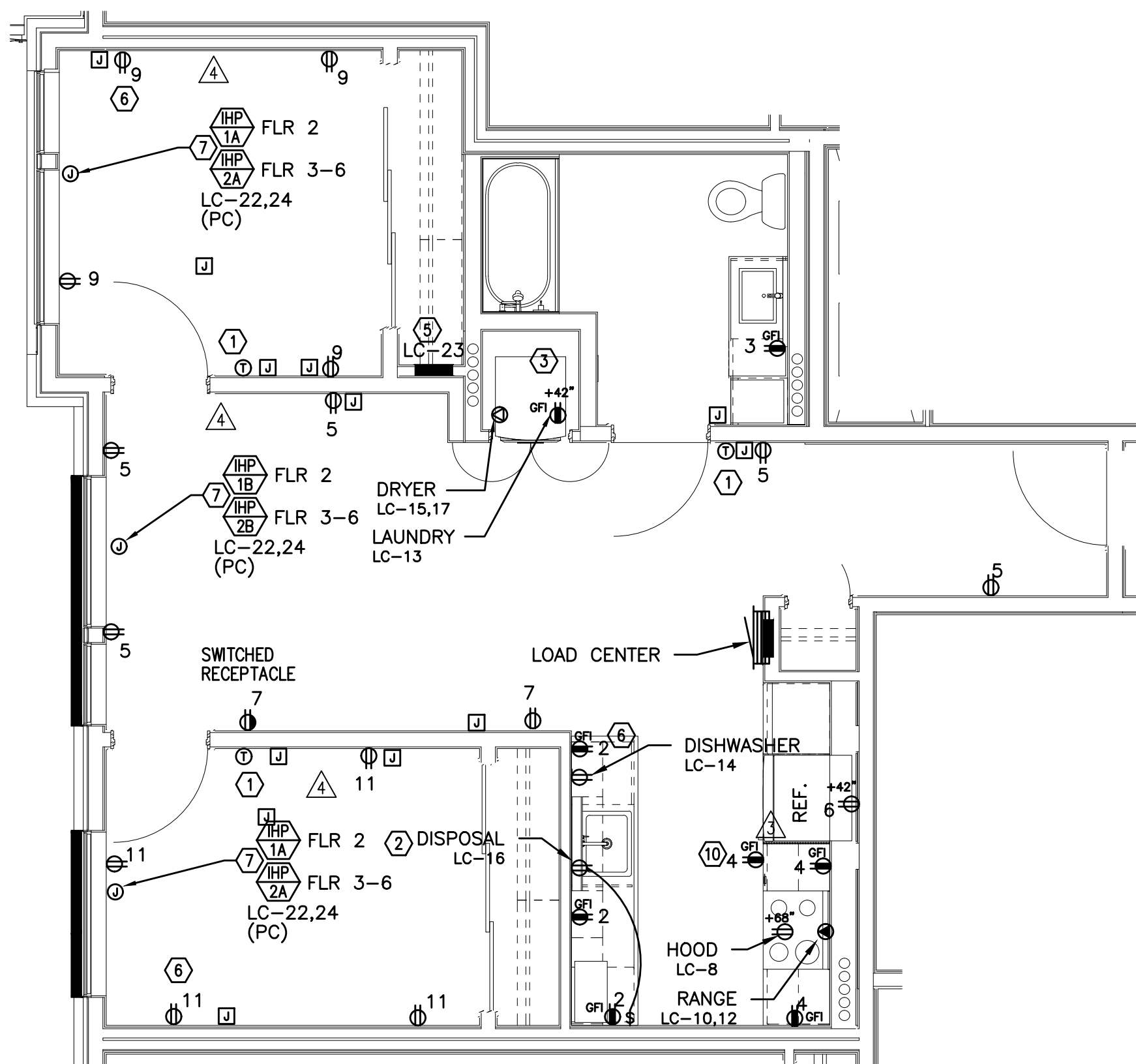
TYPICAL UNIT TYPE C

1 1 BED/1 BATH – POWER PLAN
E4.12 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE D

2 2 BED/1 BATH – POWER PLAN
E4.12 SCALE: 1/4" = 1'-0"



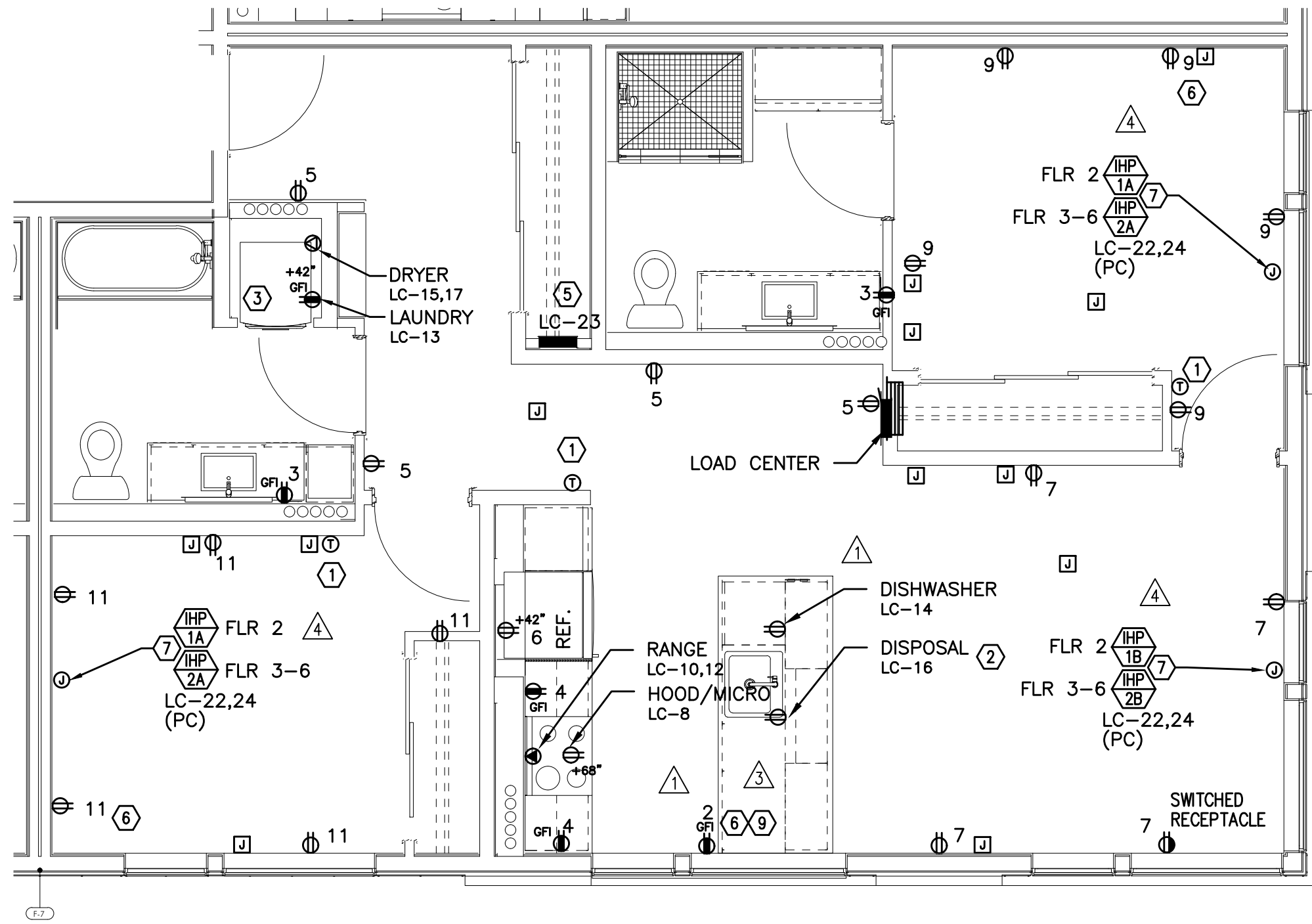
TYPICAL UNIT TYPE D-ADA

3 2 BED/1 BATH – POWER PLAN
E4.12 SCALE: 1/4" = 1'-0"

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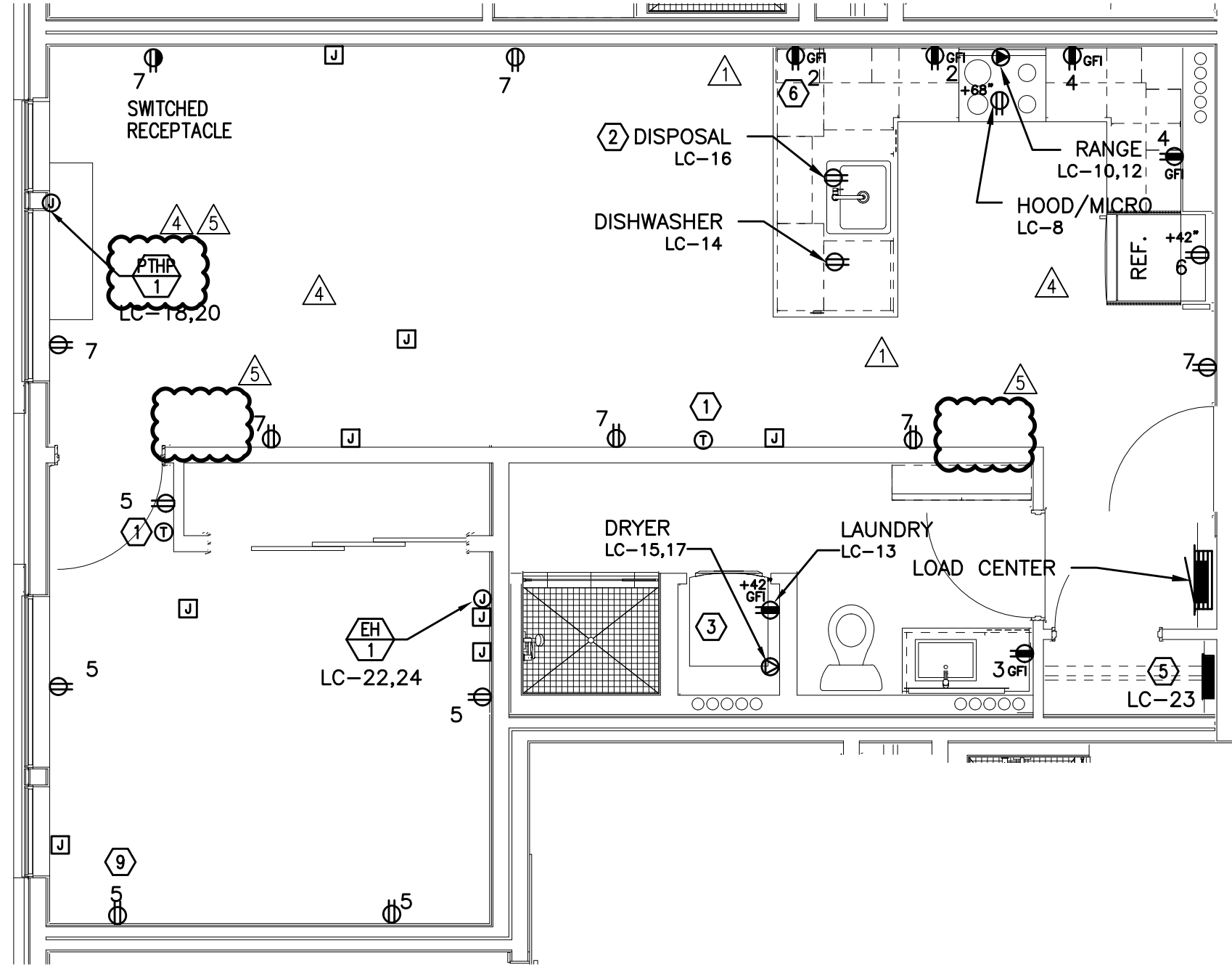
SHEET:

E4.12



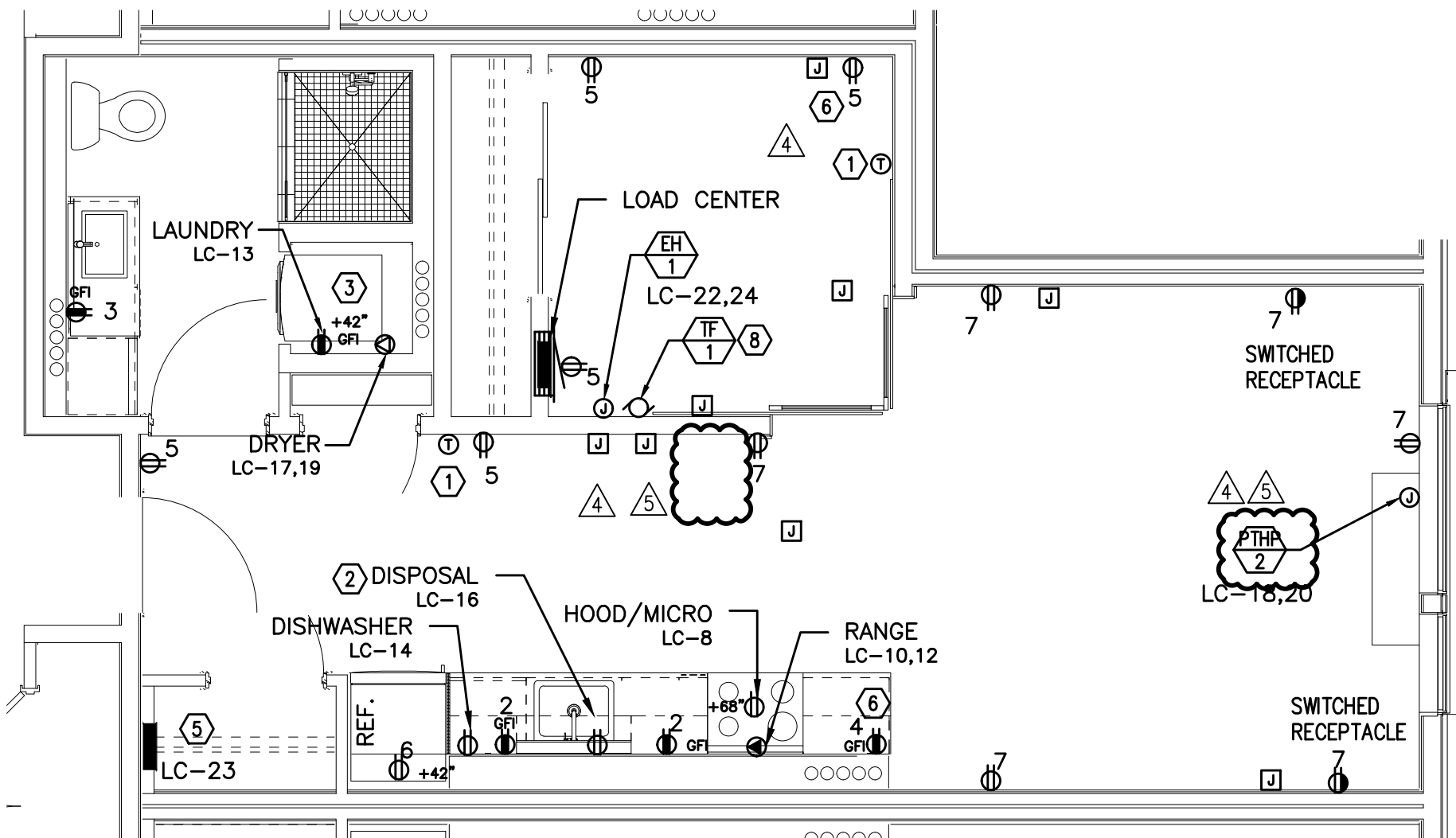
TYPICAL UNIT TYPE E

1 2 BED/2 BATH – POWER PLAN
E4.13 SCALE: 1/4" = 1'-0"



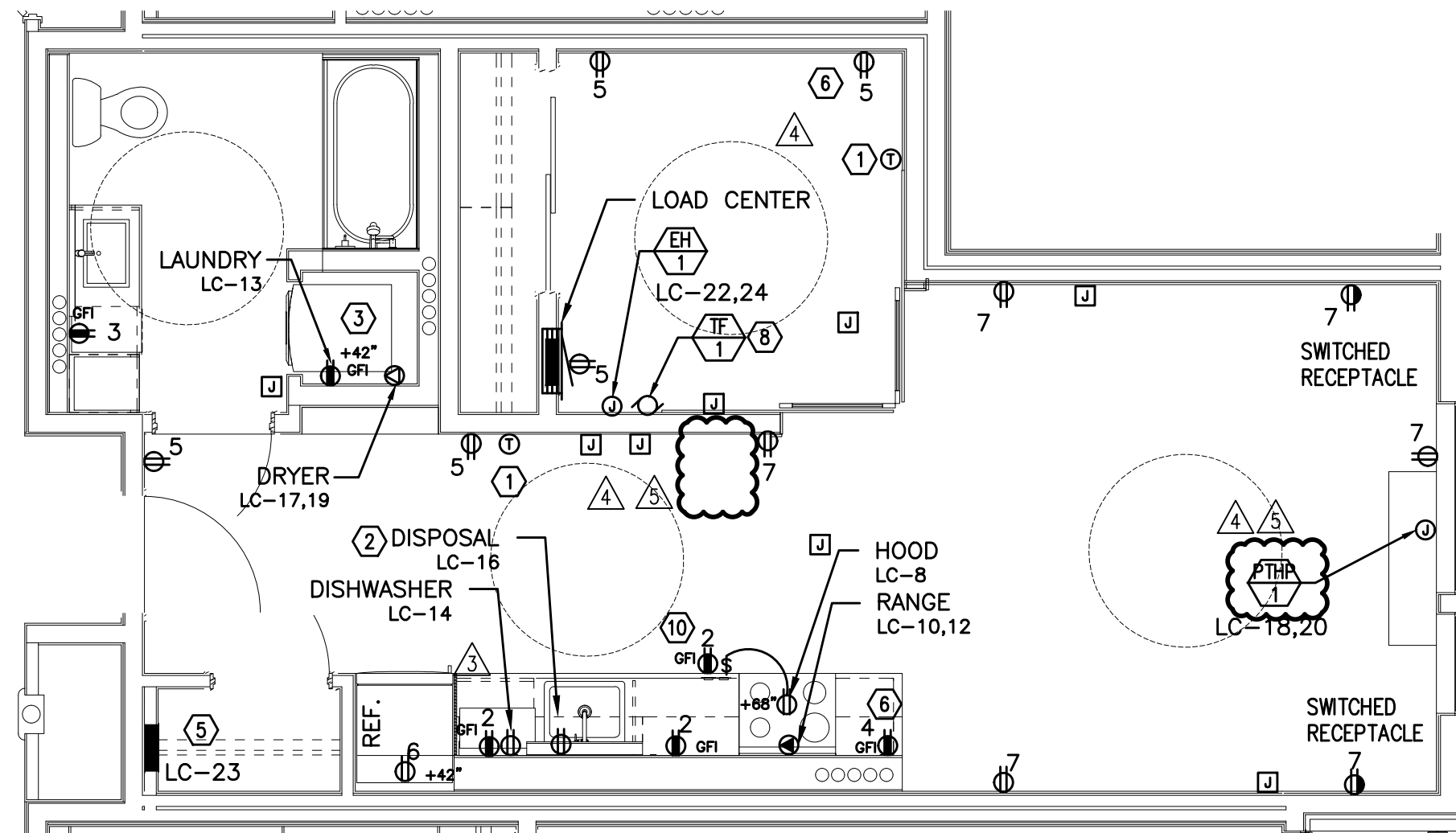
TYPICAL UNIT TYPE F

2 1 BED/1 BATH – POWER PLAN
E4.13 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE G

3 0 BED/1 BATH – POWER PLAN
E4.13 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE G-ADA

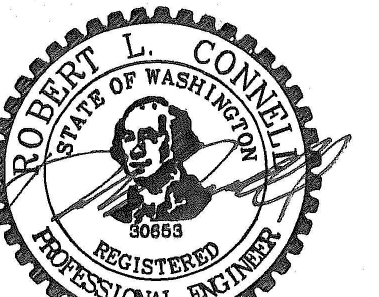
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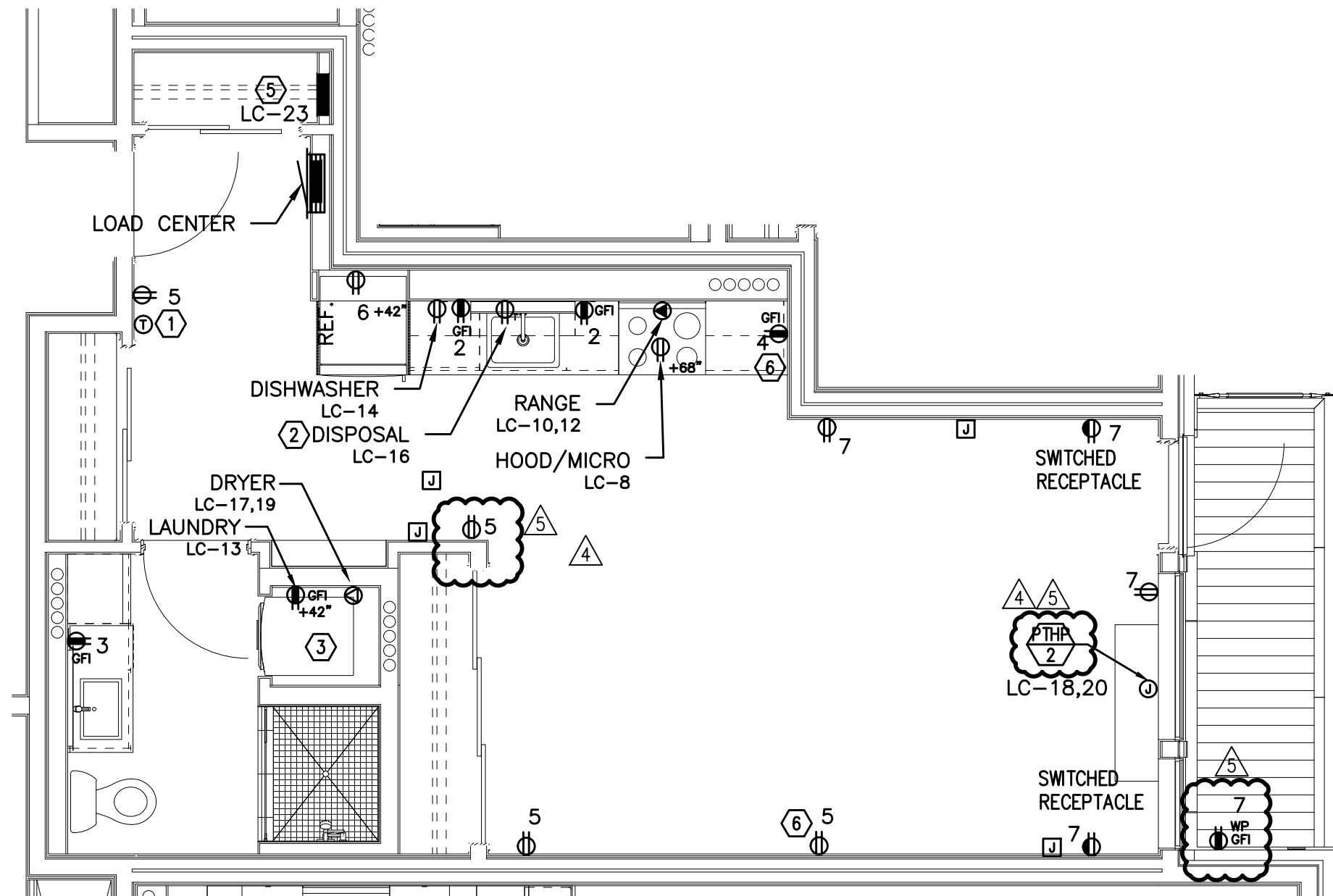
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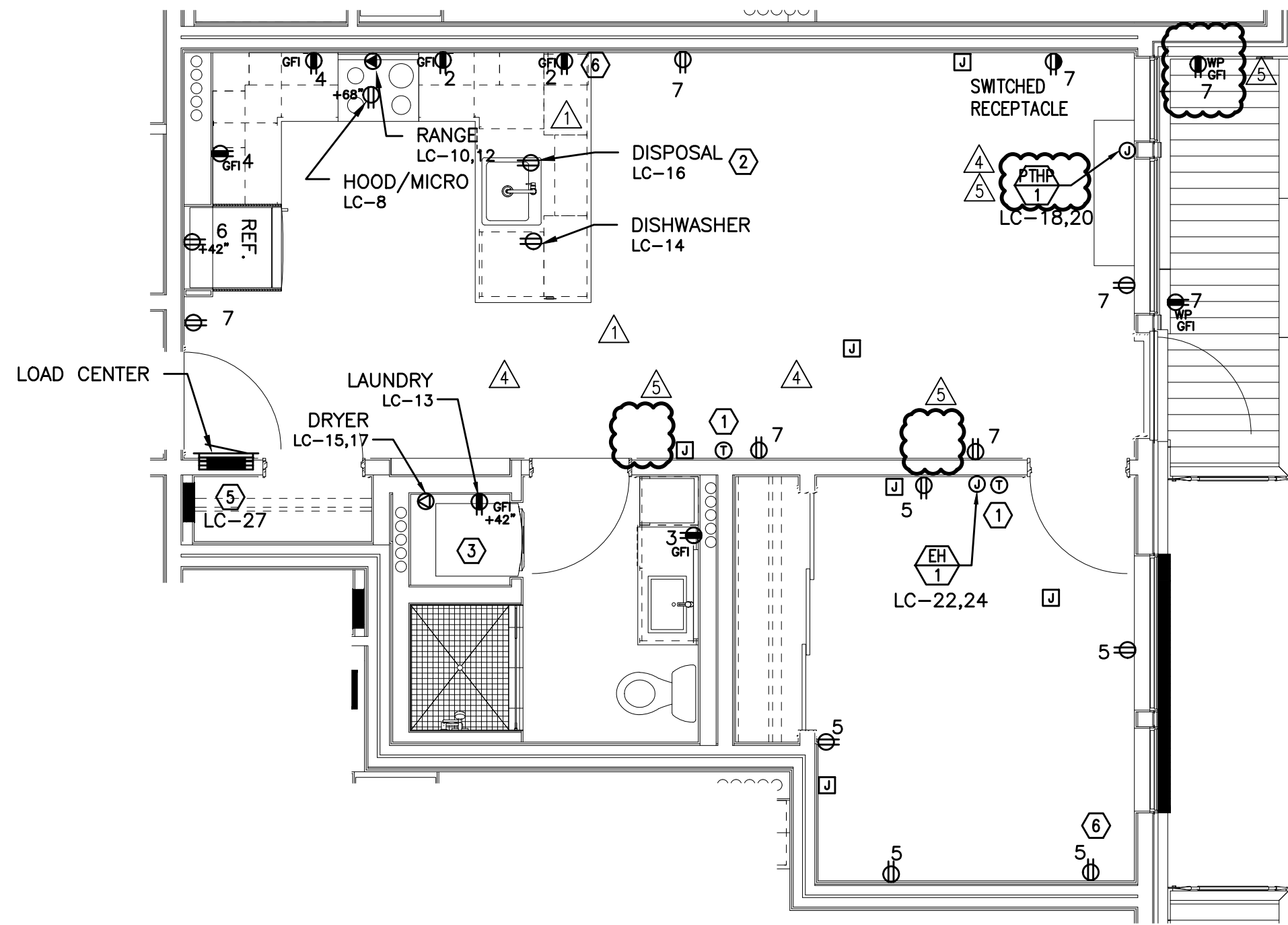
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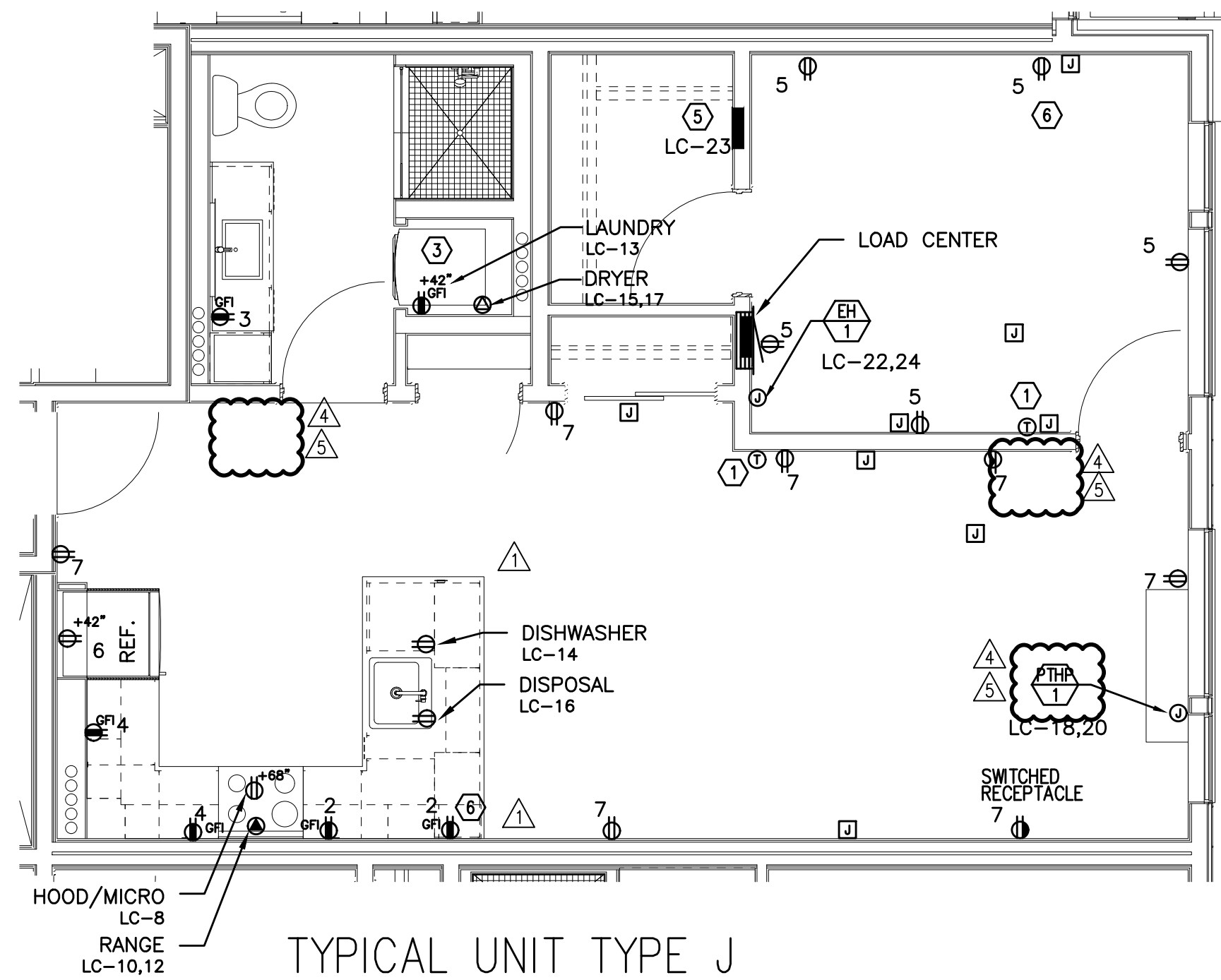
TYPICAL UNIT TYPE H

1 0 BED/2 BATH – POWER PLAN
E4.14 SCALE: 1/4" = 1'-0"



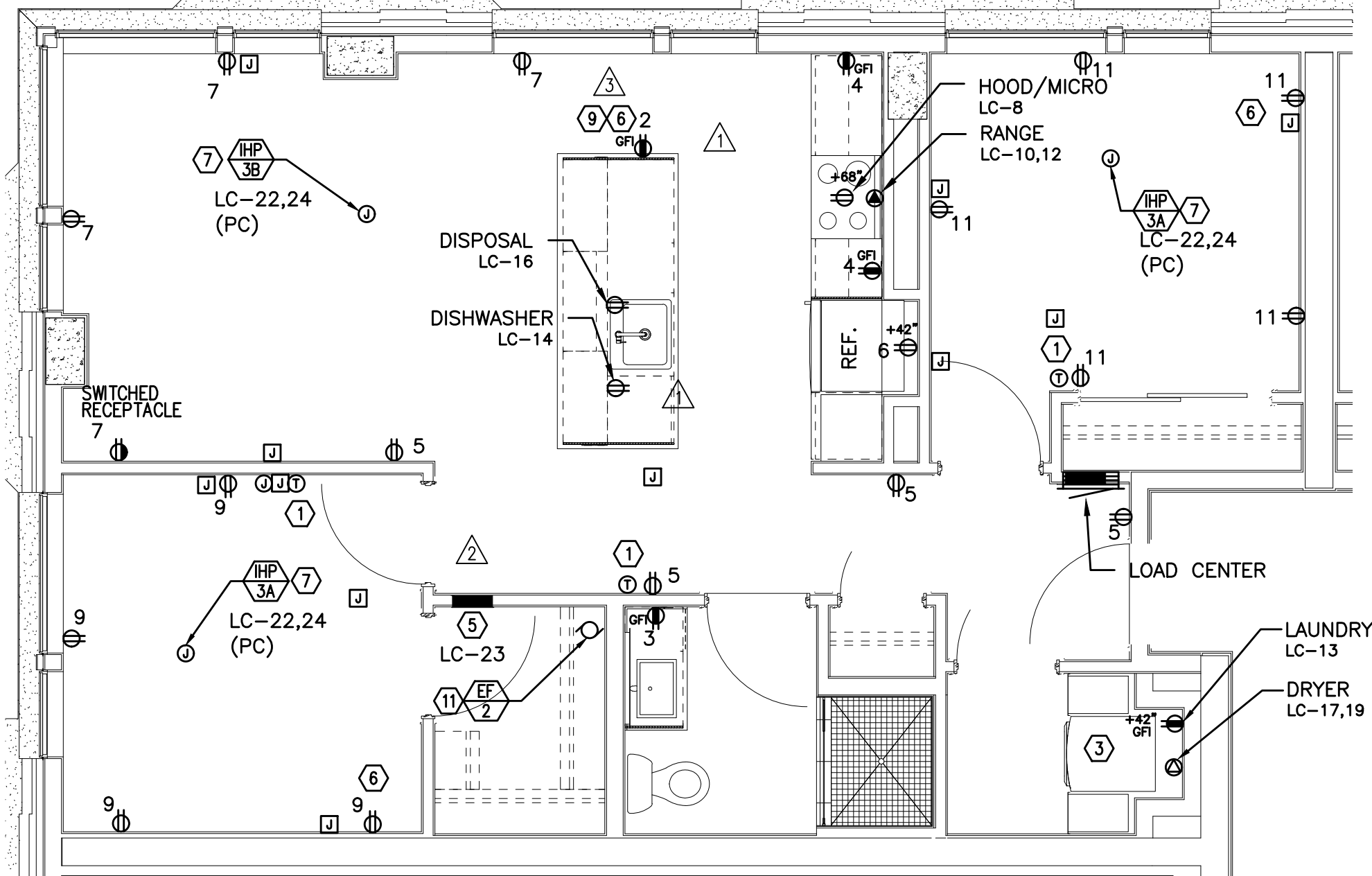
TYPICAL UNIT TYPE I

2 1 BED/1 BATH – POWER PLAN
E4.14 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE J

3 1 BED/1 BATH – POWER PLAN
E4.14 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE K

4 2 BED/1 BATH – POWER PLAN
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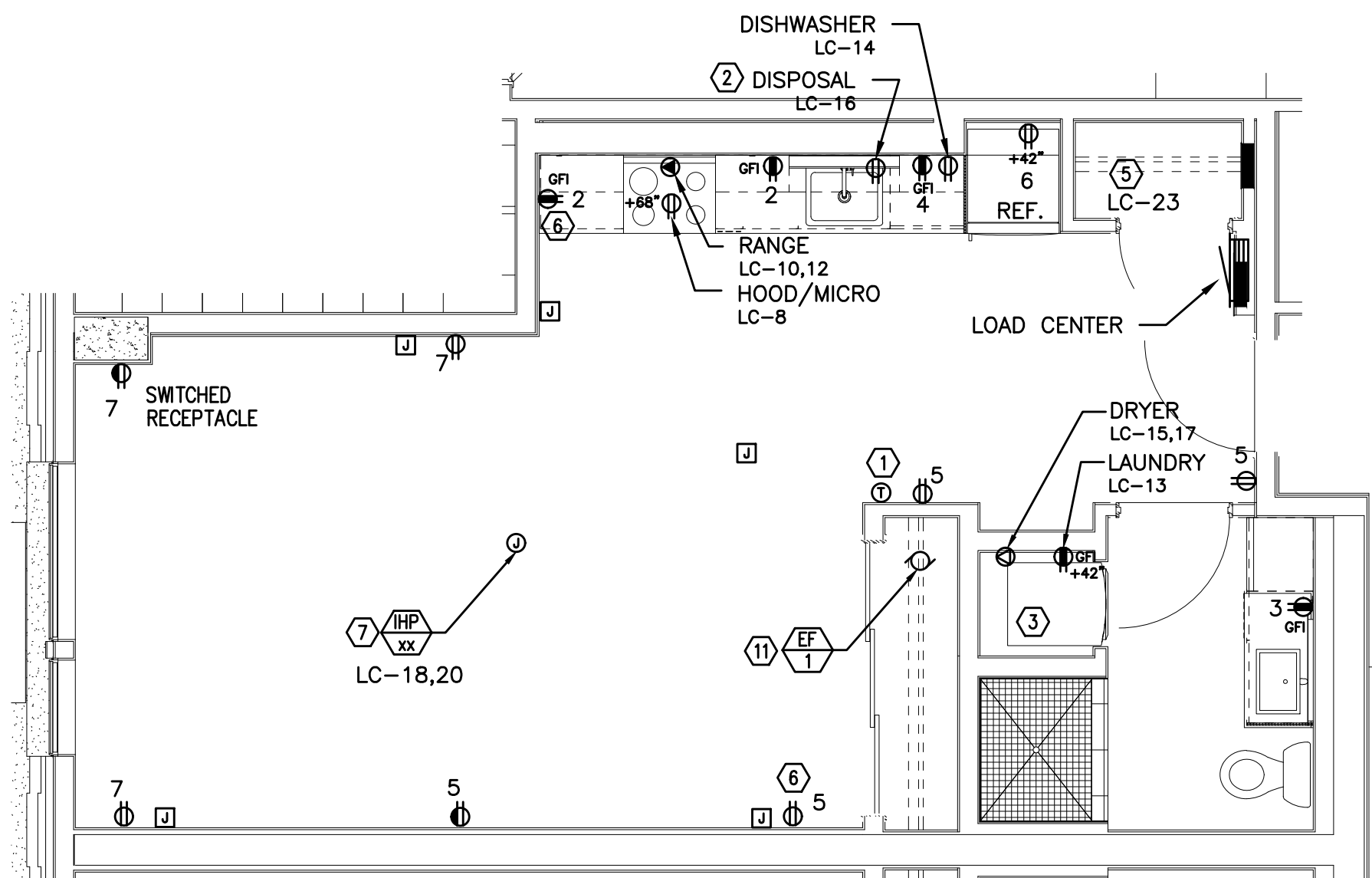
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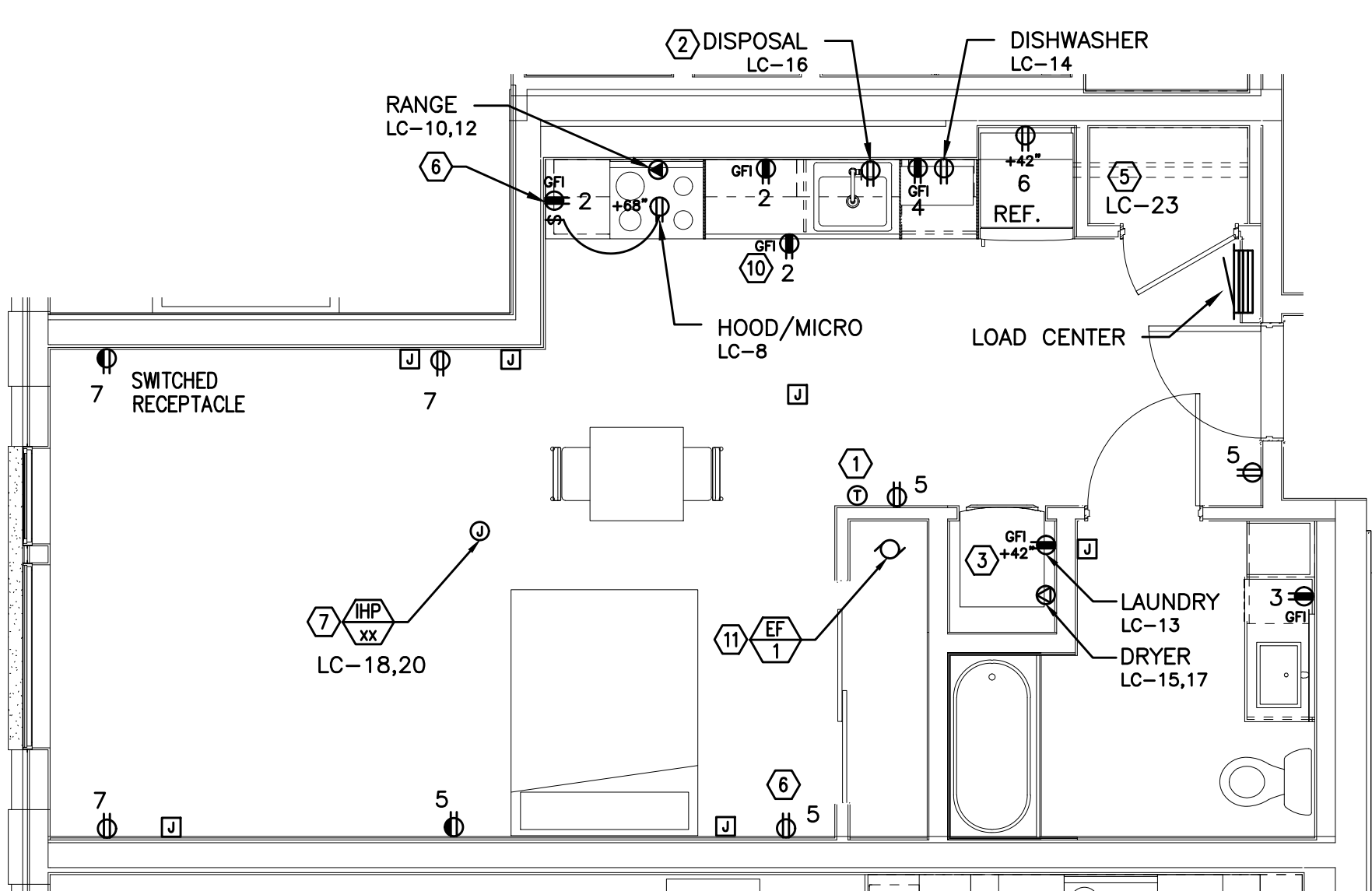
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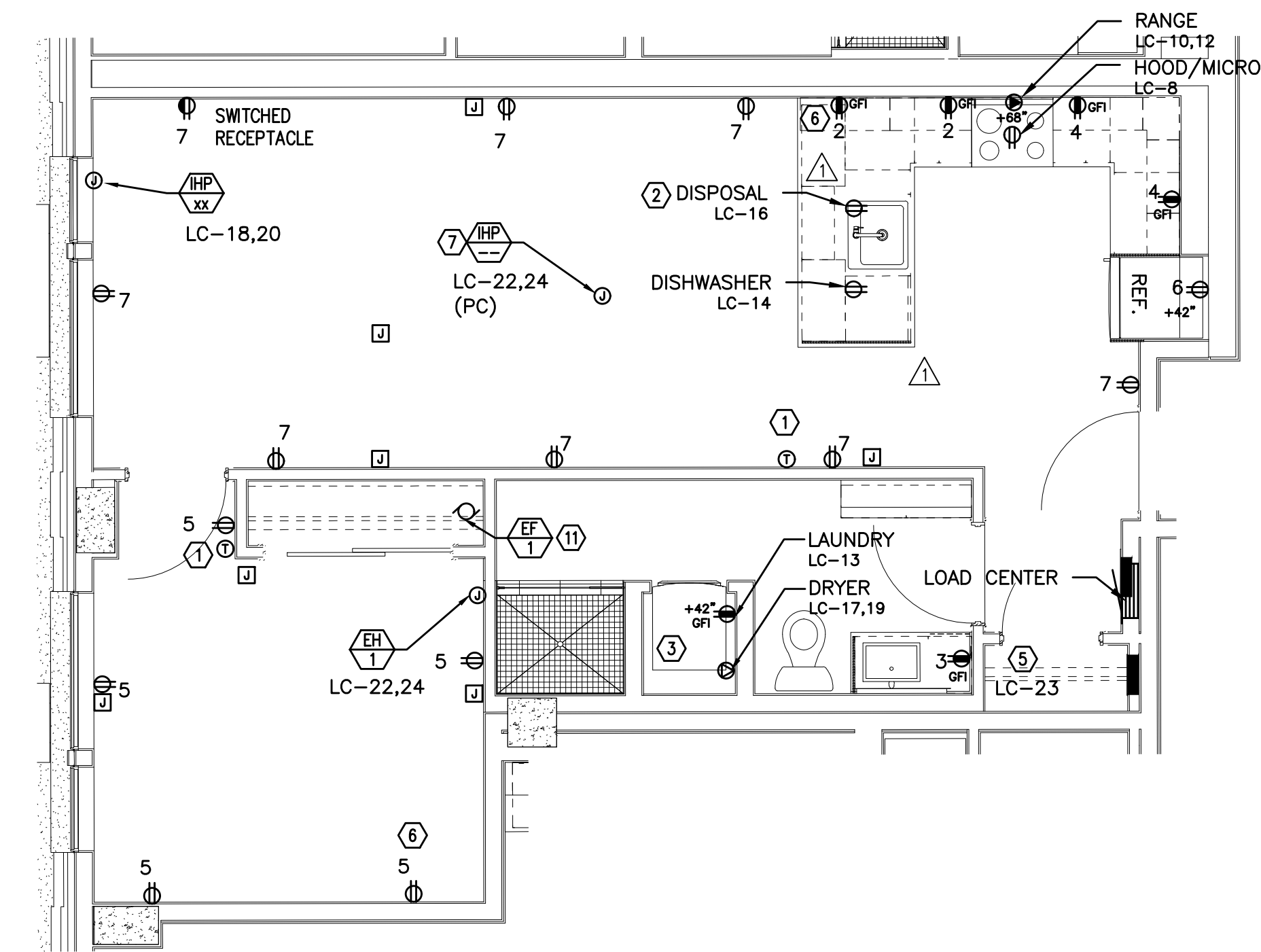
TYPICAL UNIT TYPE L

1 0 BED/1 BATH – POWER PLAN
E4.15 SCALE: 1/4" = 1'-0"



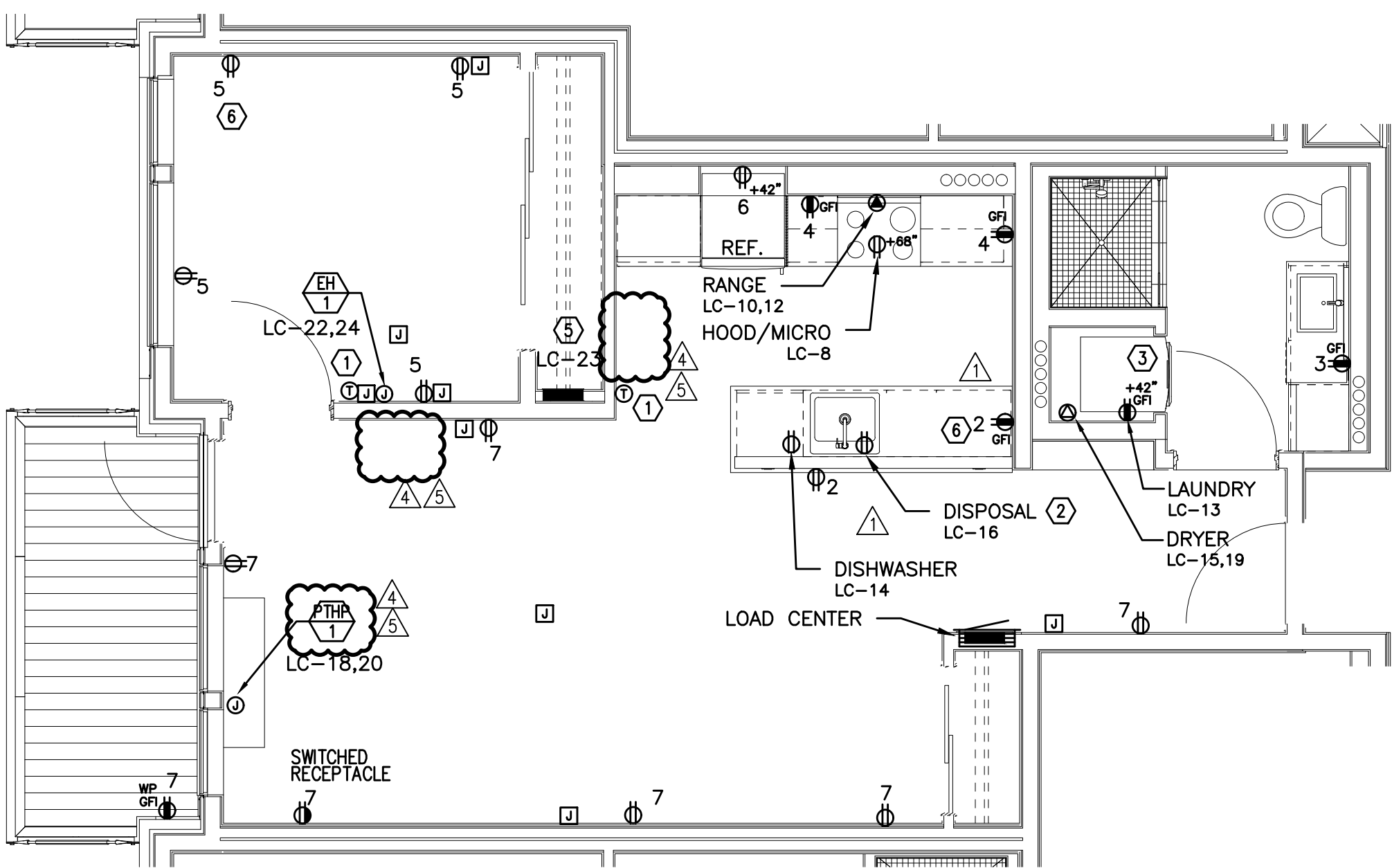
TYPICAL UNIT TYPE L-ADA

2 0 BED/1 BATH – POWER PLAN
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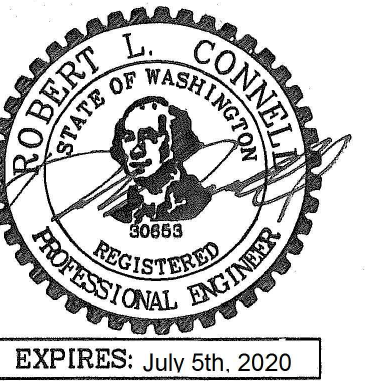
TYPICAL UNIT TYPE M

3 1 BED/1 BATH – POWER PLAN
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TYPICAL UNIT TYPE N

4 1 BED/1 BATH – POWER PLAN
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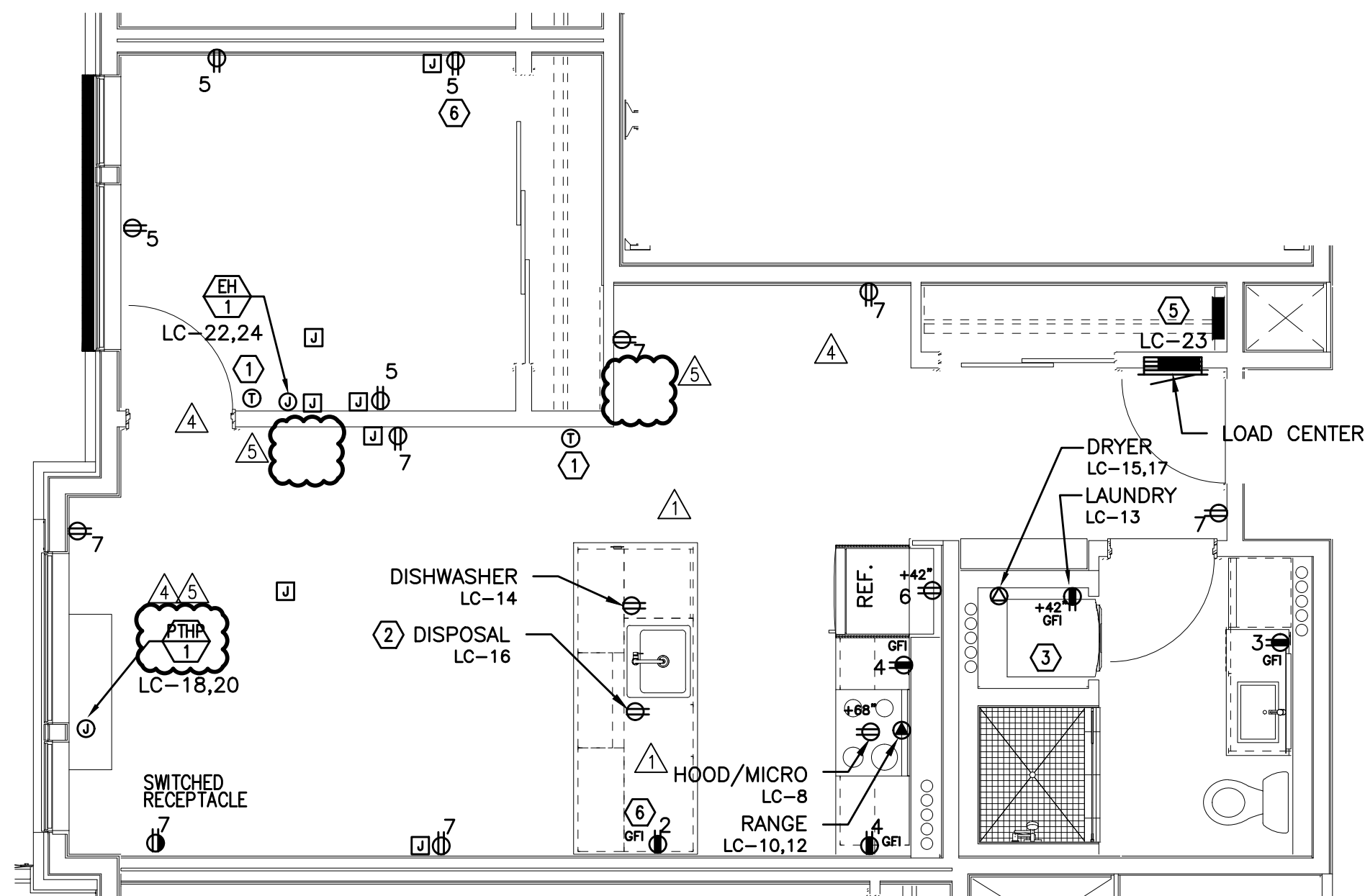
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- MOUNT DEVICES HORIZONTALLY, JUST UNDER THE EDGE OF THE COUNTER TOP.
- PROVIDE ONE 15A, RECEPTACLE CIRCUIT FROM TENANT LOAD CENTER FOR TELECOM SMART PANEL. COORDINATE WORK WITH SERVICE PROVIDER FOR EXACT LOCATION AND FINAL CONNECTION.
- PROVIDE ONE 20A, 120V, 1P RECEPTACLE WITH USB PORT, MOUNTED AT 44" A.F.F. (MAX) AT KITCHEN ISLAND/PENNISULA COUNTER & AT 18" AFF IN BEDROOMS. CONSULT ARCHITECT AND/OR INTERIOR DESIGNER FOR ADDITIONAL LOCATIONS WHERE REQUIRED.
- INDOOR HEAT PUMP UNIT INTERCONNECTED WITH OUTDOOR UNIT LOCATED ON ROOF. CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL HVAC INSTALLER AND MECHANICAL PLANS FOR EXACT POWER REQUIREMENTS & LOCATION OF EACH UNIT PRIOR TO ROUGH IN.
- COORDINATE WITH MECHANICAL EQUIPMENT INSTALLER FOR EXACT POWER REQUIREMENTS, CONTROLS & LOCATION OF THRU-WALL FAN. TIE INTO BEDROOM RECEPTACLE CIRCUIT.
- MOUNT DEVICES HORIZONTALLY, UNDER WINDOW SILL.
- RECEPTACLE MOUNTED IN FACE OF CABINET.
- COORDINATE WITH MECHANICAL EQUIPMENT INSTALLER FOR EXACT POWER REQUIREMENTS & LOCATION OF CONTINUOUS OPERATING EXHAUST FAN. TIE INTO LIVING ROOM LIGHTING RECEPTACLE CIRCUIT.

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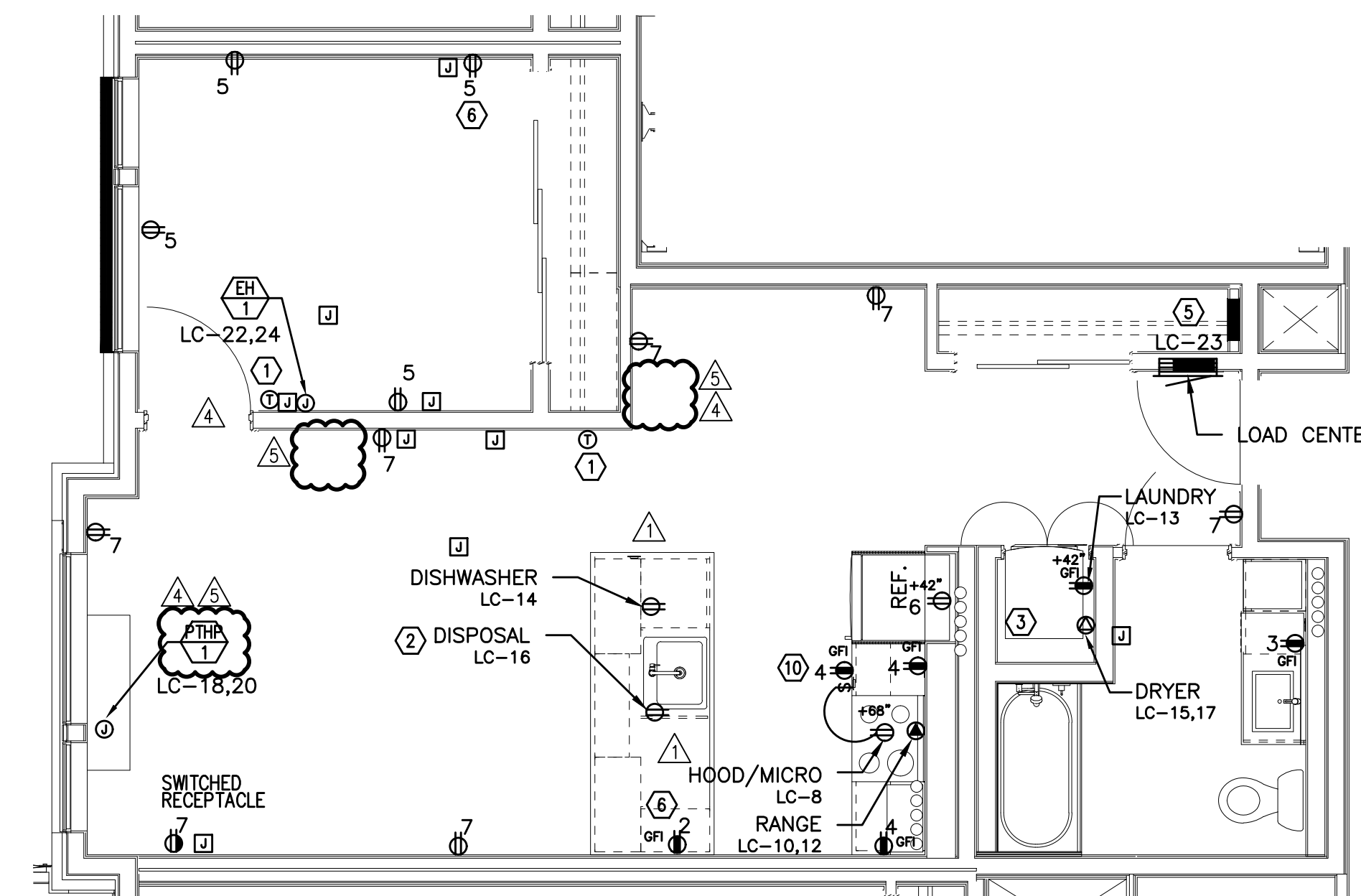
SHEET:

E4.16



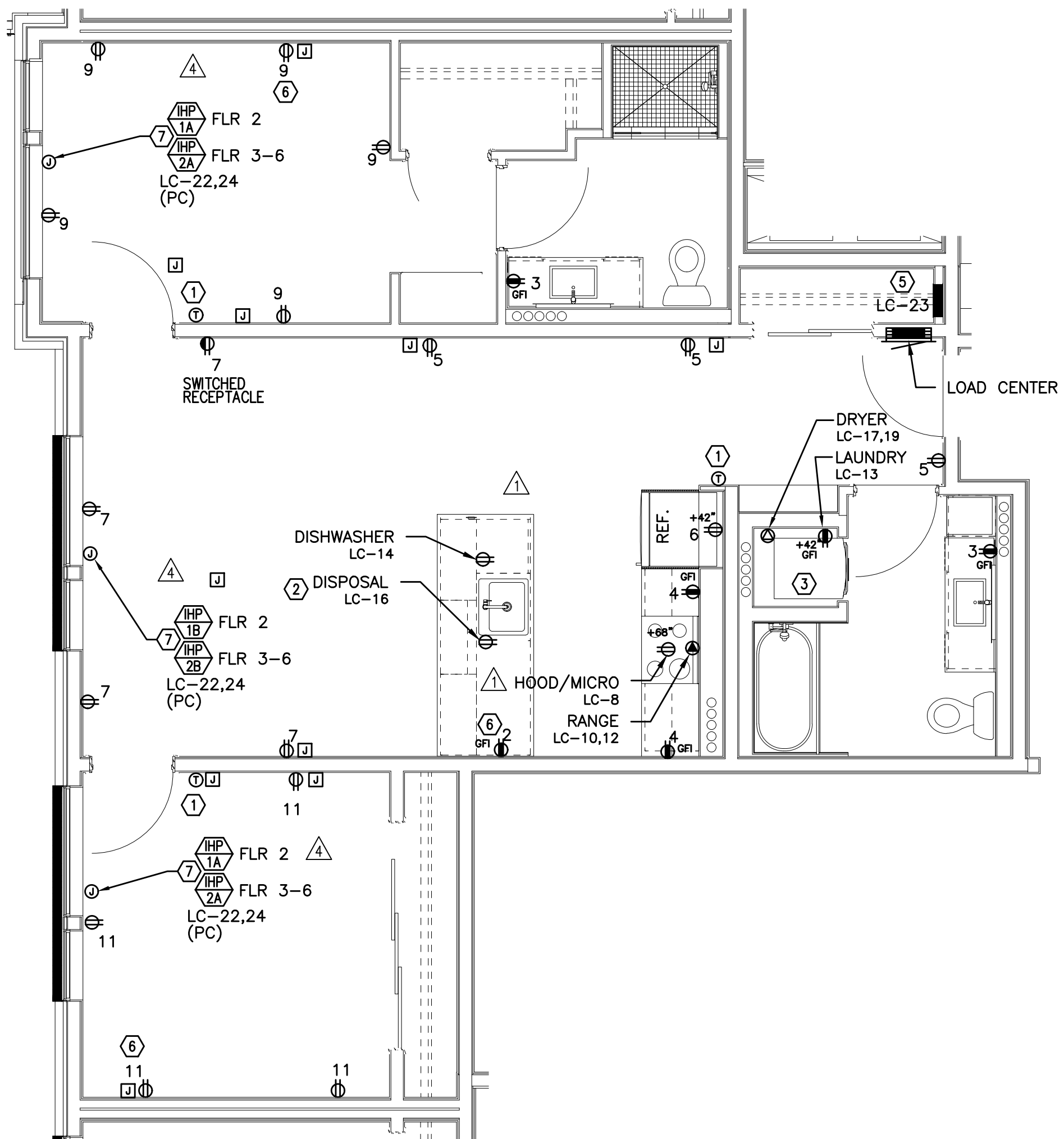
TYPICAL UNIT TYPE 0

1 BED/1 BATH – POWER PLAN

1
E4.16 SCALE: 1/4" = 1'-0"

TYPICAL UNIT TYPE 0-ADA

1 BED/1 BATH – POWER PLAN

2
E4.16 SCALE: 1/4" = 1'-0"

TYPICAL UNIT TYPE P

2 BED/2 BATH – POWER PLAN

2
E4.16 SCALE: 1/4" = 1'-0"