



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

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

AEGIS MIXED-USE DEVELOPMENT

312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

SHEET:

E1.01

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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.

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	
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

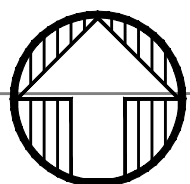
PROPERTY LINE

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"

Aegis I – Bldg A Main distribution Center "MDP-A"							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
PANEL H1/H2	6,606	32,880	1,500		13,134		
PANEL M1/M2			25,200		10,200	80,139	
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)				376,000			
Retail Meters (MC-A2)				138,000			
SUBTOTAL	12,856	34,380	26,700	514,000	33,334	168,891	43,200
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	16,070	22,190	26,700	514,000	33,334	168,891	10,800

CONN LOAD: 833 KVA

VOLTS:	208	3ph
TOTAL CALC:	792	KVA
CALC AMPS:	2198	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

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

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

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)	RESIDENTIAL LOAD SUMMARY "MC-A1"										
	LW 1	LW 2	LW 3	LW 4	LW 5	LW 6			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)
Studio	---	2	2	2	2	---	8	540	1620	3000	1500	8000	1500	1200	3500	0	900	0	5500
1bed/1bath	---	7	7	7	5	---	26	750	2250	3000	1500	8000	1500	1200	3500	0	900	0	8000
2bed/2bath	---	4	4	4	4	---	16	985	2955	3000	1500	8000	1500	1200	3500	0	900	0	6000
TOTALS:	0	13	13	13	11	0	50	39580	118740	150000	75000	400000	75000	60000	175000	0	45000	0	348000

VOLTS:	208	3ph
TOTAL CONNECTED:	1447	KVA
DEMAND FACTOR:	0.26	Based on
TOTAL CALCULATED:	376	KVA
CALCULATED AMPS:	1044	AMPS

NOTE:

on 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	43.0MCA	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
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
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:

- 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.

BUILDING 'A' LOAD SUMMARY & EQUIPMENT SCHEDULE

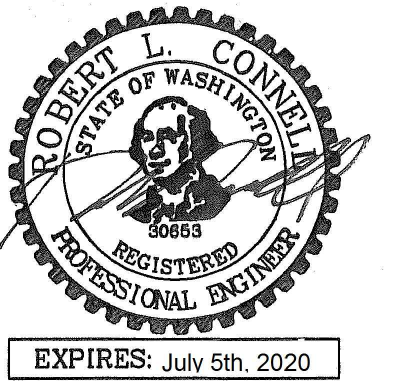
1
E1.12

SCALE: NONE

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

SHEET:

E1.12



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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		location		BLDG 'A'		connected load amps				
H1		SURFACE		2nd Flr		Rm 294				152		
voltage		phase		bus & main		SCCR: 22K		calculated load amps		145		
120/208V		3		250A		SCCR: 22K		MLO				
C	service	va	a/p	no.	a	b	c	no.	a/p	va	service	C
1	LIGHTS - SITE/PARKING	500	20/1	1	*			2	20/1	1080	RECEPT - FLR 1	2
1	LIGHTS - BLDG EXTERIOR	500	20/1	3	*			4	20/1	900	RECEPT - FLR 1	2
1	LIGHTS - FLR 1 (LOBBY DECOR)	814	20/1	5	*			6	20/1	1080	RECEPT - FLR 1 (E. LOBBY)	2
1	LIGHTS - FLR 1 (LOBBY & CORRID)	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
	SPARE	0	20/1	17	*			18	20/1	500	PHONE BOARD	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										208		
Phase B 19718 VA												
Phase C 17564 VA												
Total Connected 54690 VA										largest motor (va)		
load code:										calculated load (va)		
ph. A										ph. C		
1. LIGHTS= 1288 964										814 VA 3066 1.25		
2. RECEPT= 5940 5700										5100 VA 16740 1 + 0.5		
3. HEATING= 1000 500										1000 VA 2500 1.00		
4. KITCHEN= 0 0										0 VA 0 1.00		
5. EQUIP= 860 4500										3500 VA 8860 1.00		
6. MOTORS= 0 0										0 VA 0 *		
7. MISC= 8320 8054										7150 VA 23524 1.00		
(* 125% of the largest motor + 100% of the balance)										TOTAL = 52087		

MFIA PANEL SCHEDULE											
panel		mounting SURFACE		location		BLDG 'A'		connected load amps			
M1		voltage		phase		bus & main		calculated load amps		161	
120/208V		3		250A		(SCCR: 22K)		MLO		161	
service	va	a/p	no.	a b c	no.	a/p	va	service	va		
6 TRASH COMPACTOR	2100	40/3	1	*	2	50/3	3864	BP-1	6		
6 *	2100	*	3	*	4	*	3864	*	6		
6 *	2100	*	5	*	6	*	3864	*	6		
6 TRASH COOMPACTOR	2100	40/3	7	*	8	20/3	1356	FC-1	6		
6 *	2100	*	9	*	10	*	1356	*	6		
6 *	2100	*	11	*	12	*	1356	*	6		
3 WH-1,2 (GAS)	600	20/1	13	*	14	20/2	1500	EH-5 (TRASH RM)	3		
6 RP-1	1176	20/1	15	*	16	*	1500	*	3		
SPARE	0	20/1	17	*	18	20/2	1500	EH-5 (BIKE RM)	3		
3 EH-3 (TEMP)	1500	20/2	19	*	20	*	1500	*	3		
3 *	1500	*	21	*	22	20/1	218	EF-3 (TRASH RM)	6		
3 EH-3 (TEMP)	1500	20/2	23	*	24	20/1	SPARE		5		
3 *	1500	*	25	*	26	20/1	500	IRRIGATION CONTROLS	5		
3 EH-3 (TEMP)	1500	20/2	27	*	28	20/1	0	SPARE			
3 *	1500	*	29	*	30	20/1	600	WH-3,4 (GAS)	3		
3 EH-3 (TEMP)	1500	20/2	31	*	32	20/1	1176	RP-2	6		
3 *	1500	*	33	*	34	40/3	EV CHARGING STATION (FUTURE)				
3 EH-3 (TEMP)	1500	20/2	35	*	36	*					
3 *	1500	*	37	*	38	*					
3 EH-3 (TEMP)	1500	20/2	39	*	40	20/1	0	SPARE			
3 *	1500	*	41	*	42	20/1	0	SPARE			
NOTES:										line-line voltage	
Phase A 20696 VA Phase B 18314 VA Phase C 19020 VA										208	
Total Connected 58030 VA										largest motor (va)	
load code:										calculated load (va)	
1. LIGHTS=	0	0			0	VA	0	1.25		0	
2. RECEPT=	0	0			0	VA	0	1 + 0.5		0	
3. HEATING=	9600	7500			8100	VA	25200	1.00		25200	
4. KITCHEN=	0	0			0	VA	0	1.00		0	
5. EQUIP=	0	0			1500	VA	2000	1.00		2000	
6. MOTORS=	10596	10814			9420	VA	30830	*		30830	
7. MISC=	0	0			0	VA	0	1.00		0	
(* 125% of the largest motor + 100% of the balance)										TOTAL =	
										58030	

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		59			
C	service	va	a/p	no.	a	b	c	no.	a/p	mla	service
1	LIGHTS – FLR 4, 5, & 6	650	20/1	1	*			2	20/1	1080	RECEPT – 4TH FLR
1	LIGHTS – COMMUNITY RM	1000	20/1	3	*			6	20/1	1080	RECEPT – 5TH FLR
	SPARE		20/1	5	*			6	20/1	1300	RECEPT – COMMUNITY RM
1	LIGHTS – TERRACE	500	20/1	7	*			8	20/1	450	RECEPT – COMMUNITY RM
2	RECEPT – TERRACE	1080	20/1	9	*			10	20/1	500	RECEPT – COMMUNITY RM
2	RECEPT – TERRACE	1260	20/1	11	*			12	20/1	1200	RECEPT – COMMUNITY RM
2	RECEPT – TERRACE	1260	20/1	13	*			14	20/1	1500	RECEPT – COMMUNITY RM
5	A/V SYSTEM	1500	20/1	15	*			16	20/1	1650	RECEPT – COMMUNITY RM
2	RECEPT – ROOF	1080	20/1	17	*			18	20/1	360	RECEPT – COMMUNITY RM
5	IRRIGATION	500	20/1	19	*			20	20/1	1080	RECEPT – COMMUNITY RM
5	LANDSCAPE LIGHTING	524	20/1	21	*			22	20/1	720	RECEPT – COMMUNITY RM
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
Phase A		8320 VA				NOTES:				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. MISCO=		0		0		0		VA		0 1.00	
(* 125% of the largest motor + 100% of the balance)										TOTAL =	
										21262	



EXPIRES: July 5th, 2020

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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

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E1.15

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Aegis I - Bldg B Main distribution Center "MDP-B"							
LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
PANEL H1	6,606	19,380	1,500	0	9,500	0	
PANEL M1/M2	1,047	3,240	13,200			88,175	
PANEL E1	7,250	1,500			11,000	2,352	
Elevator 1 (40hp)						43,200	43,200
Elevator 2 (40hp)						43,200	
Fire Pump						43,200	
Residential Meters (MC-B1)				349,000			
Residential Meters (MC-B2)				374,000			
Retail Space "f"				29,500			
981sf @ 30w/sf							
SUBTOTAL	14,903	24,120	14,700	752,500	20,500	220,127	43,200
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	18,629	17,060	14,700	752,500	20,500	220,127	10,800

CONN LOAD: 1090 KVA

VOLTS: 208 3ph
TOTAL CALC: 1054 KVA
CALC AMPS: 2927 AMPS

NOTE: BASED ON TOTAL CONNECTED LOAD, AND ESTIMATED LOAD FOR THE LEAST SPACE, THIS SERVICE PANEL IS AT FULL CAPACITY. NOT 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
EC-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	43.0MCA	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
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
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)

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.

Aegis I – Bldg B																			
RESIDENTIAL LOAD SUMMARY 'MC-B1'																			
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	0	2	2	2	2	2	10	540	1620	3000	1500	8000	1500	1200	3500	0	900	0	5500
1bed/1bath	0	4	4	4	4	4	20	750	2250	3000	1500	8000	1500	1200	3500	0	900	0	8000
2bed/2bath	0	3	3	3	3	3	15	985	2955	3000	1500	8000	1500	1200	3500	0	900	0	6000
TOTALS:	0	9	9	9	9	9	45	35175	105525	135000	67500	360000	67500	54000	157500	0	40500	0	305000

4

VOLTS: 208 3ph
TOTAL CONNECTED: 1293 KVA
DEMAND FACTOR: 0.27
TOTAL CALCULATED: 349 KVA
CALCULATED AMPS: 969 AMPS

NOTE: Based 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	5500
1bed/1bath	2	5	5	5	5	5	27	750	2250	3000	1500	8000	1500	1200	3500	0	900	0	8000
2bed/2bath	2	2	2	2	2	2	12	985	2955	3000	1500	8000	1500	1200	3500	0	900	0	6000
TOTALS:	7	9	9	9	9	9	52	39090	117270	156000	78000	416000	78000	62400	182000	0	46800	0	359500
VOLTS: 208 3ph																			
TOTAL CONNECTED: 1496 KVA																			
DEMAND FACTOR: 0.25 Based on Total Number of Residential Units = 51–55 (See N.E.C. Article: 220.84)																			
TOTAL CALCULATED: 374 KVA																			
CALCULATED AMPS: 1038 AMPS																			
NOTE:																			

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

1
E1.15



EXPIRES: July 6th, 2020

IN THE EVENT CONFLICTS ARE DISCOVERED
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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

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E1.16

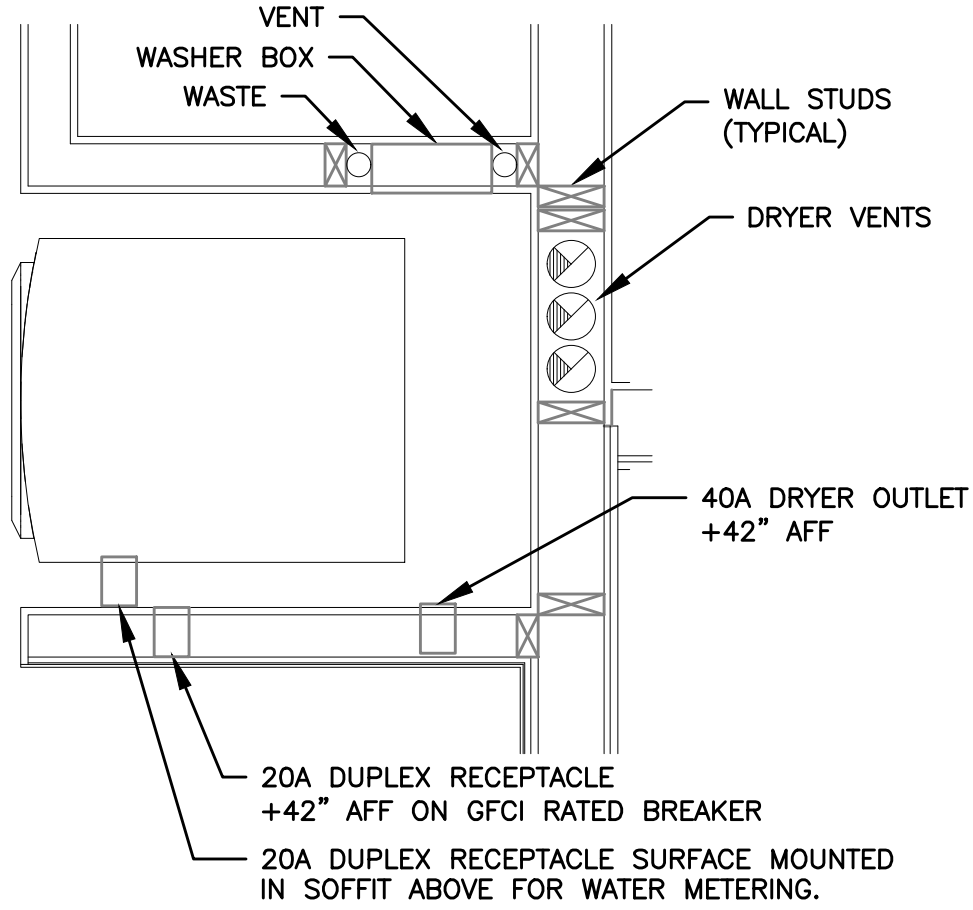
MFIA PANEL SCHEDULE											
panel		mounting SURFACE			location BLDG 'B'			connected load amps			
E1		3			2nd Flr Rm 292						63
voltage		phase			100A SCCR: 22K			calculated load amps			
120/208V		3			MLO						
service		va	a/p	no.	a	b	c	no.	a/p	va	service
C			0	20/1	1	*	2	20/1	1500		SMOKE DAMPERS - FLR 1 & 2
	SPARE		500	20/1	3	*	4	20/1	1500		SMOKE DAMPERS - FLR 3 & 4
	1 LIGHTS - BLDG EXTERIOR		500	20/1	5	*	6	20/1	1500		SMOKE DAMPERS - FLR 5 & 6
	1 LIGHTS - STAR 1		500	20/1	7	*	8	20/1	1500		ELEVATOR PIT LITS & PLUGS
	1 LIGHTS - FLR 1		1200	20/1	9	*	10	20/1	1500		ELEVATOR CAD LIGHTS
	1 LIGHTS - FLR 2 & 3		1232	20/1	11	*	12	20/1	1500		ELEVATOR CONTROLLER (OPT)
	1 LIGHTS - FLR 4 & 5		1232	20/1	13	*	14	20/1	1176		ELEVATOR RELIEF VENT
	1 LIGHTS - FLR 6		616	20/1	15	*	16	20/1	1176		SP-1 (ELEVATOR PIT)
	5 SMOKE CURTAIN		1500	20/1	17	*	18	20/1	500		GENERATOR BLOCK HEATER
	5 SMOKE CURTAIN		1500	20/1	19	*	20	20/1	500		GENERATOR BATTERY CHARGER
	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	
Phase B		6992	VA							208	
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		9100	
2. RECEPT.=		1500	0		0	VA	1500	1 + 0.5		1500	
3. HEATING=		0	0		500	VA	500	1.00		500	
4. KITCHEN=		0	0		0	VA	0	1.00		0	
5. EQUIP.=		4000	2000		5000	VA	11000	1.00		11000	
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 =	24452			

MFIA PANEL SCHEDULE											
panel		mounting SURFACE			location		BLDG 'B'		connected load amps		
H1		3			FLR 1 RM 198				129		
voltage		phase			bus & main		calculated load amps				
120/208V		3			250A (SCCR: 22k)		MLO		115		
service		va	a/p	no.	a	b	c	a/p	va	service	
C											C
1	LIGHTS - SITE/PARKING	1440	20/1	1	*	2	20/1	900	RECEPT - FLR 1	2	2
1	LIGHTS - BLDG EXTERIOR	500	20/1	3	*	4	20/1	900	RECEPT - FLR 1 (E. LOBBY)	2	2
1	LIGHTS - FLR 1 (LOBBY)	1032	20/1	5	*	6	20/1	1500	RECEPT - FLR 1 (OFFICE)	2	2
1	LIGHTS - FLR 1 (CORRIDOR)	267	20/1	7	*	8	20/1	1500	RECEPT - FLR 1 (PKG SYSTEM)	2	2
1	LIGHTS - FLR 1 (BOH)	1169	20/1	9	*	10	20/1	1080	RECEPT - FLR 1	2	2
1	LIGHTS - UNIT ENTRIES	500	20/1	11	*	12	20/1	1080	RECEPT - FLR 1	2	2
1	LIGHTS - FLR 2 & 3	698	20/1	13	*	14	20/1	1260	RECEPT - FLR 1 (W. LOBBY)	2	2
5	BUILDING SIGNS	1500	20/1	15	*	16	20/1	1500	RECEPT - FLR 1 (FITNESS)	2	2
5	DRINKING FOUNTAIN	1500	20/1	17	*	18	20/1	1500	RECEPT - FLR 1 (FITNESS)	2	2
5	UNIT ENTRY SYSTEM	1500	20/1	19	*	20	20/1	1500	RECEPT - FLR 1 (FITNESS)	2	2
2	RECEPT - FLR 2	1080	20/1	21	*	22	20/1	0	SPARE		
2	RECEPT - FLR 3	1080	20/1	23	*	24	20/1	1500	AUTO DOORS	5	5
3	EH-2 (N. STAIR)	500	20/1	25	*	26	20/1	500	PHONE BOARD	5	5
3	EH-2 (S. STAIR)	500	20/1	27	*	28	20/1	500	COMMUNICATIONS BOARD	5	5
3	EH-4 (RISER)	500	20/1	29	*	30	20/1	500	ACCESS CONTROLS	5	5
5	A/V SYSTEM	1500	20/1	31	*	32	20/1	1500	RECEPT - MAINT. RM	2	2
5	REPLACE	500	20/1	33	*	34	20/1	1500	RECEPT - SECURITY	2	2
1	LTS & PLUGS (TEMP)	1500	20/1	35	*	36	20/1	1500	WALL FANS - FITNESS RM	5	5
5	DAS SYSTEM	1500	20/1	37	*	38	20/1	1500	WALL FANS - FITNESS RM	5	5
2	RECEPT - FITNESS	1500	20/1	39	*	40	20/1	1500	RECEPT - FITNESS	2	2
2	RECEPT - FITNESS	1500	20/1	41	*	42	20/1	1500	RECEPT - FITNESS	2	2
Phase A		16065 VA		NOTES:				line-line voltage			
Phase B		13729 VA									
Phase C		16692 VA									
Total Connected		46486 VA						largest motor (va)			
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 SURFACE		location BLDG 'B'		connected load amps					
M1		3		ELECT. RM 198		124					
voltage		phase		bus & main		calculated load amps					
120/208V		3		250A (SCCR: 22K)		MLO					
service		va	a/p	no.	a b c	no.	a/p	va	service		
C		2100	40/3	1	*	2	50/3	3864	BP-1	6	C
6	TRASH COMPACTOR	2100	*	3	*	4	*	3864	*	6	6
6	*	2100	*	5	*	6	*	3864	*	6	6
6	TRASH COMPACTOR	2100	40/3	7	*	8	20/3	1356	FC-1	6	6
6	*	2100	*	9	*	10	*	1356	*	6	6
6	*	2100	*	11	*	12	*	1356	*	6	6
3	WH-1,2 (GAS)	600	20/1	13	*	14	20/1	600	WH-3,4 (GAS)	3	3
6	BP-1	1176	20/1	15	*	16	20/1	1176	BP-2	6	6
5	EV CHARGING (FUTURE)	40/2	17	*	18	20/1	500	IRRIGATION CONTROLS	5	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	3	
5	*	*	27	*	28	*	1500	*	3	3	
5	EV CHARGING (FUTURE)	40/2	29	*	30	*	1500	*	3	3	
5	*	*	31	*	32	20/3	1500	EH-5 (TRASH RM)	3	3	
5	*	*	33	*	34	*	1500	*	3	3	
	SPARE	0	20/1	35	*	36	*	1500	*	3	3
	SPARE	0	20/1	37	*	38	20/1	135	EF-4	6	6
3	EH-3 (TEMP)	1500	20/2	39	*	40	20/1	0	SPARE		
3	*	1500	*	41	*	42	20/1	0	SPARE		
Phase A		13755 VA		NOTES:				line-line voltage			
Phase B		16272 VA						208			
Phase C		14420 VA						largest motor (va)			
Total Connected		44447 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. RECEIPT.=		0	0	0 VA		0	0.1 + 0.5	0			
3. HEATING=		4200	4500	4500 VA		13200	1.00	13200			
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 =	44447				

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	1,820	VA
Small Appliances load (2 ckts 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:	5,500	VA of electric space heating (less than 4) at 65%
-or-		VA of electric space heating (4 or more) at 40%
-or-		VA of air conditioning/cooling/heat pumps at 100%
TOTAL LOAD	18,063	VA
For 120/208-volt, 4-wire, three-phase service or feeder,	18,063 VA / 208 volts =	87 Amps
Therefore, this dwelling unit shall be permitted to be served by a 100 amp service.		

MFIA CIRCUIT DIRECTORY										17-Jul-20
Loadcenter Name		mounting			location					
LC-STUDIO (TYPICAL)		RECESSED								
voltage		phase		bus & main						
208/120		1		100A MLO		(SCCR: 22K)				
service		a/p	no.	L1	L2	a/p	service			
LIGHTS-KITCHEN/LIVING		20/1(A)	1	*	2	20/1(A)	APPLIANCE CIRCUIT			
LTS & RECEPT - BATH		20/1	3	*	4	20/1(A)	APPLIANCE CIRCUIT			
RECEPT - LIVING		20/1(A)	5	*	6	20/1	REFRIGERATOR			
RECEPT - LIVING		20/1(A)	7	*	8	20/1	MICRO/HOOD			
SPARE		20/1	9	*	10	20/1	RANGE (GAS)			
SPARE		20/1	11	*	12	20/1	SPARE			
WASHER		20/1(G)	13	*	14	20/1	DISHWASHER (WHERE USED)			
DRYER		40/2	15	*	16	20/1	DISPOSAL			
		*	17	*	18	20/2	HEAT			
DRYER BOOSTER (OPT)		20/1	19	*	20		HEAT			
WATER METER		20/1	21	*	22	20/2	HEAT			
SMART PANEL		20/1	23	*	24	*	HEAT			
BLANK		-----	25	*	26	20/1	SPARE			
BLANK		-----	27	*	28	-----	BLANK			
BLANK		-----	29	*	30	-----	BLANK			
NOTES:										
1. (A) DENOTES: ARC-FAULT INTERRUPTER CIRCUIT BREAKER. INSTALL PER NEC 210.12										
2. LOADS FOR THIS PANEL ARE INDICATED ON THE "DWELLING UNIT LOAD CALCULATION".										
3. BREAKER & WIRE SHALL BE SIZED FOR EQUIPMENT INSTALLED.										
4. (G) DENOTES GFCI RATED BREAKER.										

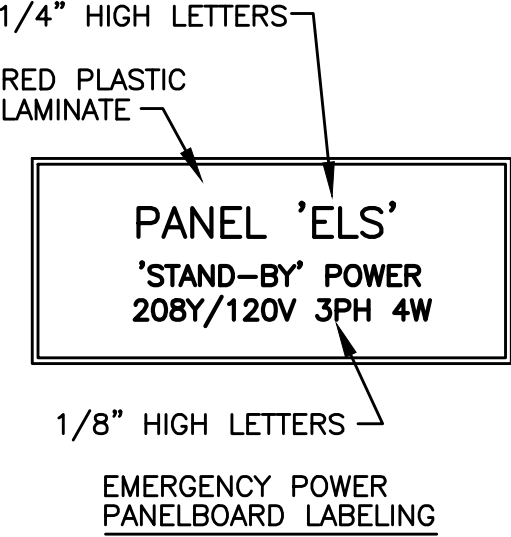
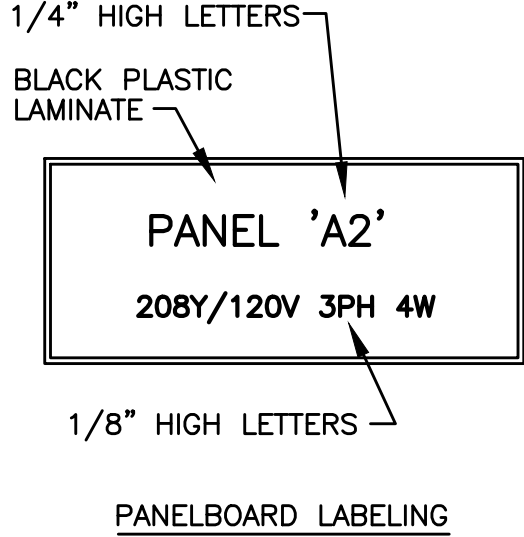
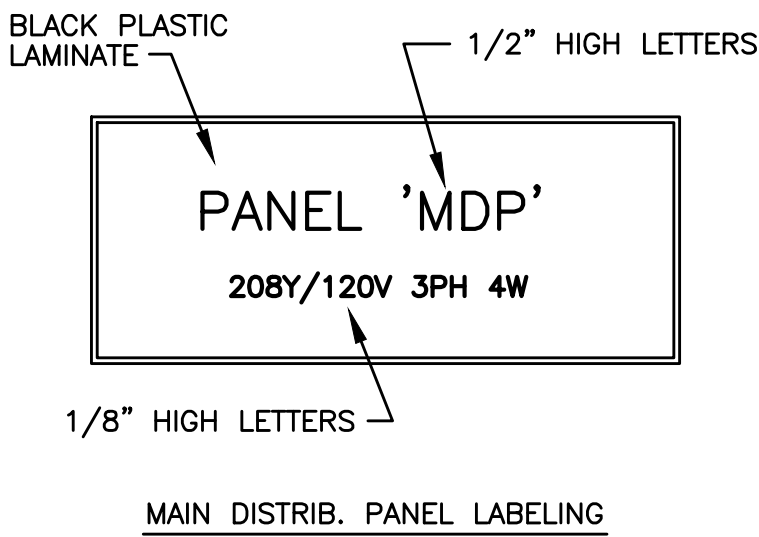


- NOTES:
1. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH IN, TO ENSURE THAT ELECTRICAL DEVICES ARE NOT INSTALLED WHERE THEY WILL CREATE CONFLICT.
 2. PREFERRED INSTALLATION SHALL HAVE THE ELECTRICAL DEVICES ON A WALL OPPOSITE THE WORK OF ANY OTHER TRADE.
 3. COORDINATE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

2 TYPICAL WASHER/DRYER ALCOVE
E1.17 NO SCALE

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 cks 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:	VA of electric space heating (less than 4) at 65%	0	VA	
-or-	8,000	VA of electric space heating (4 or more) at 40%	3,200	VA
-or-	VA of air conditioning/cooling/heat pumps at 100%	0	VA	
TOTAL LOAD	17,940	VA		
For 120/208-volt, 4-wire, three-phase service or feeder,	17,940 VA / 208 volts =	86	Amps	
Therefore, this dwelling unit shall be permitted to be served by a 100 amp service.				

MFIA CIRCUIT DIRECTORY										17-Jul-20
Loadcenter Name	mounting	location								
LC-1BR (TYPICAL)	RECESSED									
voltage	phase	bus & main								
208/120	1	100A	MLO	(SCCR: 22K)						
service	a/p	no.	L1	L2	a/p	service				
LIGHTS-KITCHEN/LIVING	20/1(A)	1	*	2	20/1(A)	APPLIANCE CIRCUIT				
LTS & RECEPT - BATH	20/1	3	*	4	20/1(A)	APPLIANCE CIRCUIT				
LTS & RECEPT - BEDROOM	20/1(A)	5	*	6	20/1	REFRIGERATOR				
RECEPT - LIVING	20/1(A)	7	*	8	20/1	MICRO/HOOD				
SPARE	20/1(A)	9	*	10	20/1	RANGE (GAS)				
SPARE	20/1(A)	11	*	12	20/1	SPARE				
WASHER	20/1(G)	13	*	14	20/1	DISHWASHER (WHERE USED)				
DRYER	40/2	15	*	16	20/1	DISPOSAL				
	*	17	*	18	20/2	HEAT				
WATER METER	20/1	19	*	20						
DRYER BOOSTER (OPT)	20/1	21	*	22	20/2	HEAT				
SMART PANEL	20/1	23	*	24						
HEAT	20/2	25	*	26	20/2	HEAT				
BLANK	-----	27	*	28	-----	BLANK				
NOTES:										
1. (A) DENOTES: ARC-FAULT INTERRUPTER CIRCUIT BREAKER. INSTALL PER NEC 210.12										
2. LOADS FOR THIS PANEL ARE INDICATED ON THE "DWELLING UNIT LOAD CALCULATION".										
3. BREAKER & WIRE SHALL BE SIZED FOR EQUIPMENT INSTALLED.										
4. (G) DENOTES GFCI RATED BREAKER.										

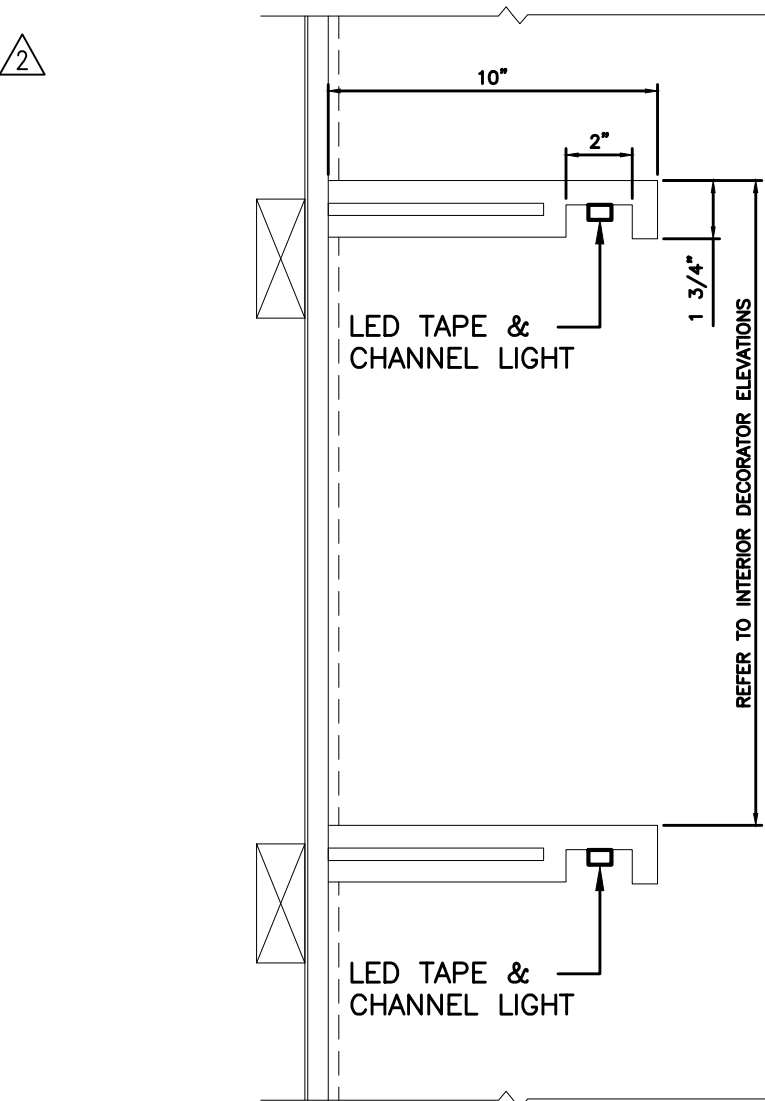


3 SWITCHBOARD/PANEL LABELING DETAIL
E1.17 NO SCALE

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:		6,000 VA of electric space heating (less than 4) at 65%
-or-		VA of electric space heating (4 or more) at 40%
-or-		VA of air conditioning/cooling/heat pumps at 100%
TOTAL LOAD		18,922 VA
For 120/208-volt, 4-wire, three-phase service or feeder,		91 Amps
18,922 VA / 208 volts =		
Therefore, this dwelling unit shall be permitted to be served by a 100 amp service.		

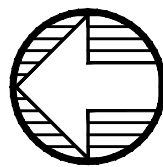
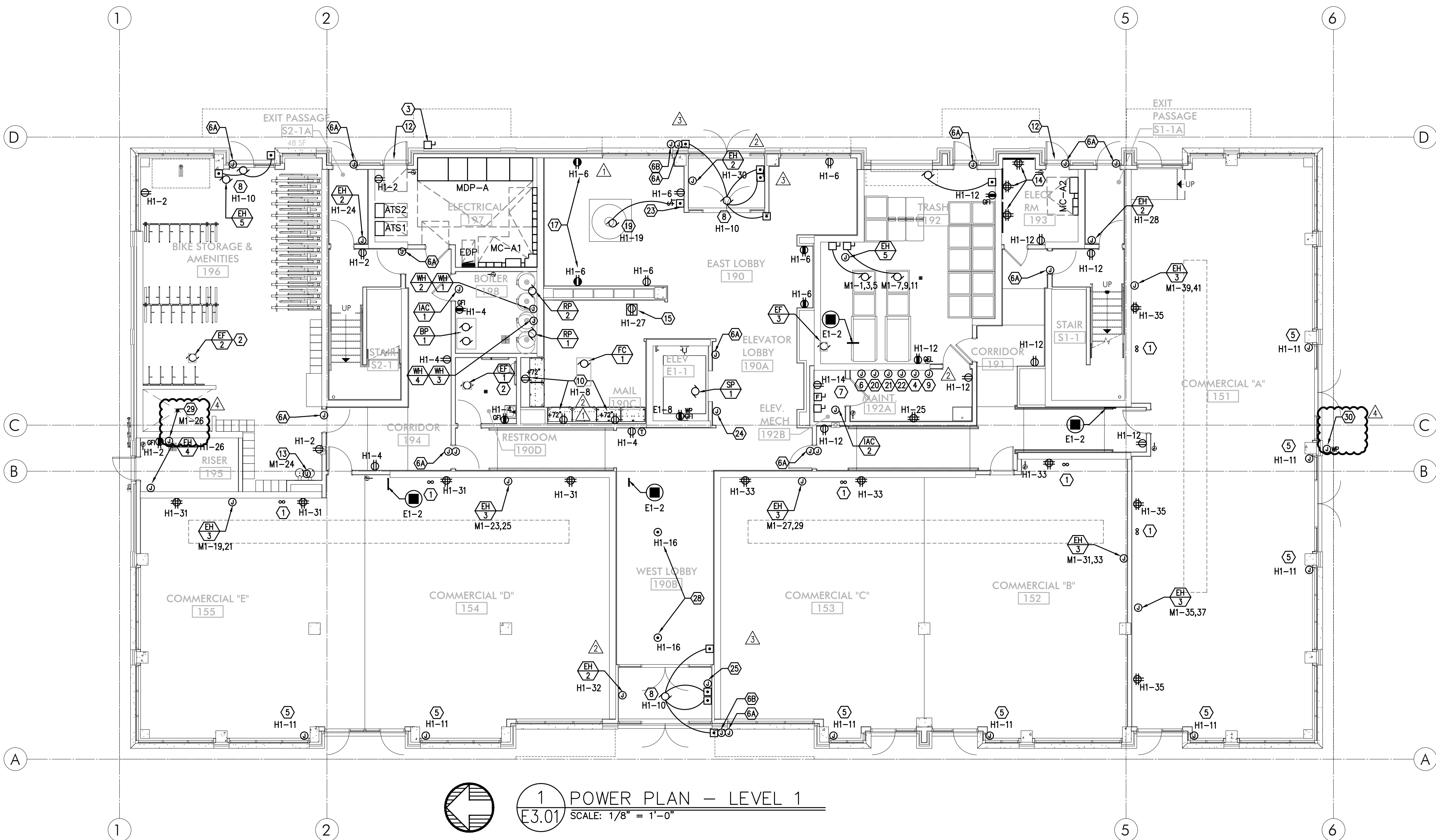
MFIA CIRCUIT DIRECTORY										17-Jul-20
Loadcenter Name	mounting	location								
LC-2BR (TYPICAL)	RECESSED									
voltage	phase	bus & main								
208/120		100A MLO	(SCCR: 22K)							
service	a/p	no.	L1	L2	a/p	no.	service			
LIGHTS-KITCHEN/LIVING	20/1(A)	1	*	2	20/1(A)	1	APPLIANCE CIRCUIT			
LTS & RECEPT - BATH	20/1	3	*	4	20/1(A)	1	APPLIANCE CIRCUIT			
RECEPT - LIVING	20/1(A)	5	*	6	20/1	1	REFRIGERATOR			
RECEPT - LIVING	20/1(A)	7	*	8	20/1	1	MICRO/HOOD			
LTS & RECEPT - BEDROOM	20/1(A)	9	*	10	20/1	1	RANGE (GAS)			
LTS & RECEPT - BEDROOM	20/1(A)	11	*	12	20/1	1	DISHWASHER			
WASHER	20/1(G)	13	*	14	20/1	1	DISPOSAL			
DRYER	40/2	15	*	16	50/2	1	HEAT			
	*	17	*	18	*	*				
DRYER BOOSTER (OPT)	20/1	19	*	20	20/2	1	HEAT			
WATER METER (OPT)	20/1	21	*	22	*	*				
SMART PANEL	20/1	23	*	24	20/2	1	HEAT			
HEAT	20/2	25	*	26	*	*				
	-----	27	*	28	20/2	1	HEAT			
BLANK	-----	29	*	30	*	*				
NOTES:										
1. (A) DENOTES: ARC-FAULT INTERRUPTER CIRCUIT BREAKER. INSTALL PER NEC 210.12.										
2. LOADS FOR THIS PANEL ARE INDICATED ON THE "DWELLING UNIT LOAD CALCULATION".										
3. BREAKER & WIRE SHALL BE SIZED FOR EQUIPMENT INSTALLED.										
4. (G) DENOTES GFCI RATED BREAKER.										



- NOTES:
1. FIXTURE TYPE LF1 (LED TAPE & CHANNEL) TO BE INSTALLED IN THE RECESSED CAVITY LOCATED ON THE UNDERSIDE OF EACH SHELF.
 2. UNDER SHELF LIGHT FIXTURES TO BE CUT TO MATCH THE SHELF CAVITY LENGTH.
 3. 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.
 4. CONTRACTOR SHALL COORDINATE WITH SHELIVING INSTALLER TO ROUTE WIRING IN A CONCEALED MANNER BEST SUITED TO THE PROJECT.
 5. LOW VOLTAGE LIGHTING RELAYS & POWER SUPPLIES SHALL BE CONCEALED WITHIN THE CABINET LOCATED BELOW THE SHELIVING.
 6. PROVIDE SWITCHING CONTROLS AS INDICATED ON THE LIGHTING PLANS.

4 UNDER SHELF LIGHTING DETAIL
E1.17 NO SCALE

1 TYPICAL RESIDENTIAL UNIT
LOAD SUMMARY &
LOAD CENTER SCHEDULES
E1.17 SCALE: NONE



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

GENERAL POWER NOTES:

- ALL PLANS ARE CONSIDERED DIAGRAMMATICAL. THEREFORE ALL EQUIPMENT SIZES AND DEVICE LOCATIONS ARE APPROXIMATE AND SUBJECT TO FIELD CONDITIONS AND PRODUCT APPROVAL.
- 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.
- 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.
- REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS.
- 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.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE LOW VOLTAGE ("T" SERIES) PLANS, INCLUDING FIRE ALARM AND SYSTEMS INSTALLER, AND PROVIDE ROUGH IN AS NEEDED.
- 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:

- 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.
- CONTINUOUS OPERATING EXHAUST FAN TO BE TIED INTO LIGHTING CIRCUIT FOR THIS AREA.
- GENERATOR DISCONNECT. SEE ONE-LINE DIAGRAM ON SHEET E1.11.
- PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR GENERATOR REMOTE ANNUNCIATOR. FED FROM PANEL E1, CKT 23.
- 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.
- 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.
- ENTRY ACCESS POINT.
- APARTMENT CALL DIRECTORY.
- VERIFY ELEVATOR EQUIPMENT LOCATION AND ELECTRICAL REQUIREMENTS WITH ARCHITECT AND/OR ELEVATOR PROVIDER.
- PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 10 FOR AUTOMATIC DOOR OPENERS.
- PROVIDE ONE 20A, 120V, 1P DEDICATED CIRCUIT FROM PANEL H1, CKT 29 FOR DAS SYSTEM.

- PACKAGE CONCIERGE SYSTEM. MOUNT DUPLEX RECEPTACLES AT 76" AFF. CIRCUIT AS INDICATED.
- 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.
- 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.
- 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.
- 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.
- CEILING MOUNTED 20A DUPLEX RECEPTACLE FOR SECURITY CAMERA. CONSULT ARCHITECT FOR ADDITIONAL INFORMATION. CIRCUIT AS INDICATED.
- DEDICATED SHAFT FOR THE ROUTING OF ELECTRICAL FEEDERS FROM TENANT METERS TO RESIDENTIAL UNITS.
- PROVIDE RECEPTACLE WITH TYPES A & C USB PORTS, LEVITON T5633-T OR APPROVED EQUAL.

- 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.
- 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.
- 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.
- 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.
- 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.

- 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.
- AREA OF REFUGE PANEL. CONSULT FIRE ALARM PLANS ("T" SERIES SHEETS) AND PROVIDE ROUGH IN AS NEEDED.
- PROVIDE ROUGH IN, AS NEEDED, FOR FIRE ALARM REMOTE ANNUNCIATION PANEL.
- PROVIDE ROUGH IN, AS NEEDED, FOR AUDIO SYSTEM CONTROLS. COORDINATE EXACT LOCATION WITH THE SYSTEM INSTALLER.
- PROVIDE ROUGH IN, AS NEEDED, FOR WIFI SYSTEM.
- CONSULT ARCHITECT/INTERIORS PLANS TO VERIFY EXACT LOCATION OF FLOOR BOX DEVICES PRIOR TO ROUGH IN.

- PROVIDE ONE 20A, 120V CIRCUIT, FROM PANEL 'M1' FOR IRRIGATION CONTROLS. COORDINATE WITH LANDSCAPING FOR EXACT POWER REQUIREMENTS AND LOCATION PRIOR TO ROUGH IN.
- PROVIDE ONE 20A, 120V CIRCUIT, FROM PANEL 'M1' FOR LOW VOLTAGE LANDSCAPE LIGHTING EQUIPMENT CONNECTION. COORDINATE WITH LANDSCAPING FOR EXACT POWER REQUIREMENTS AND LOCATION PRIOR TO ROUGH IN.

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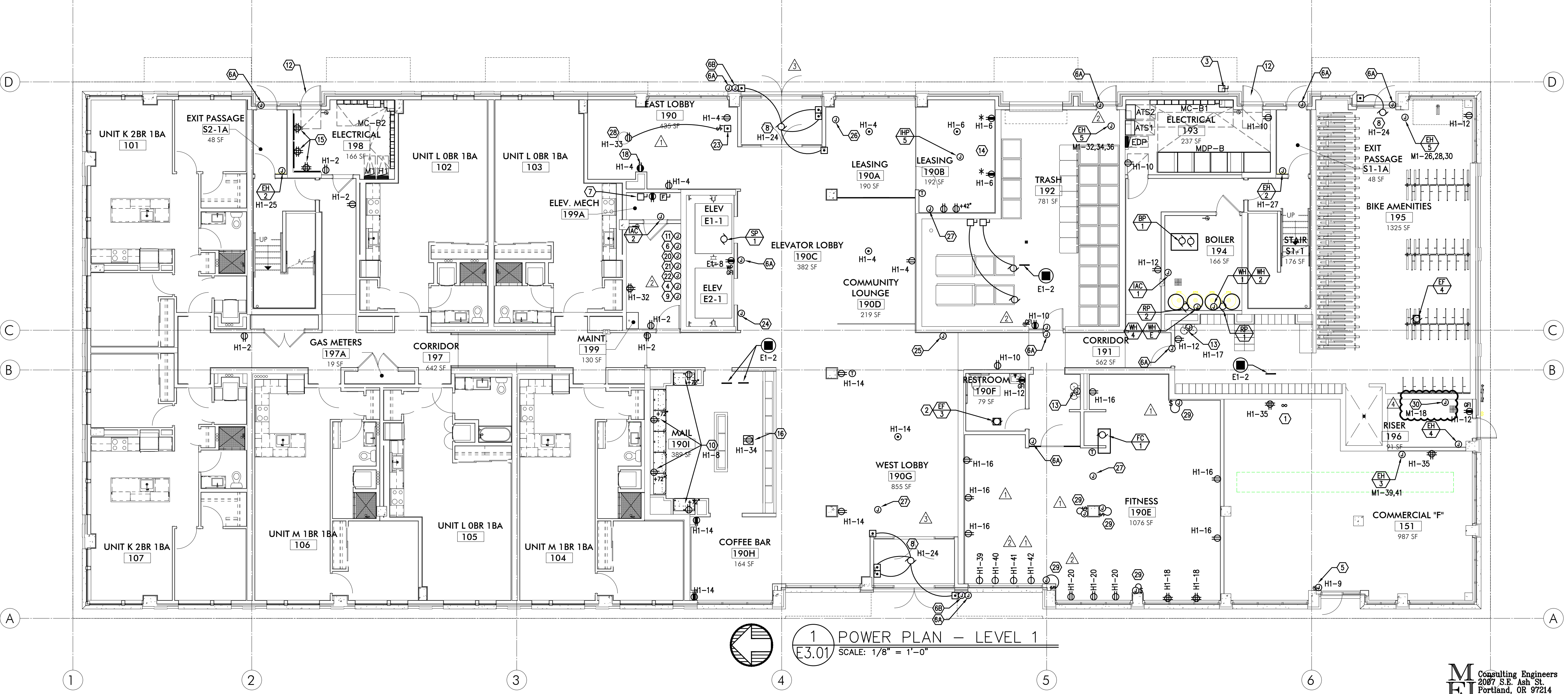
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E3.01

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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STATE OF WASHINGTON
REGISTERED
PROFESSIONAL ENGINEER
50658

EXPIRES: July 5th, 2020

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

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AEGIS

MIXED-USE DEVELOPMENT

312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

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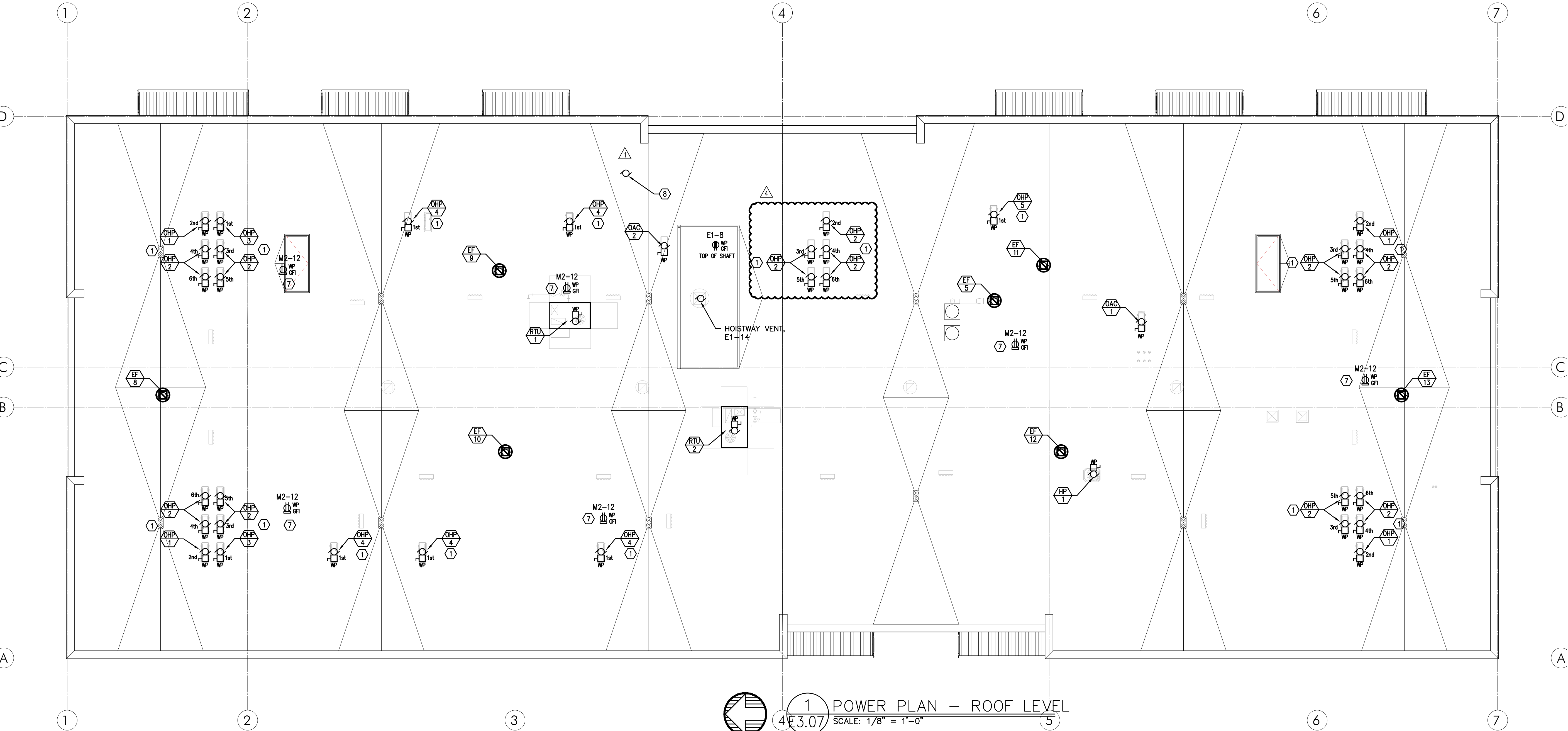
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CONTACT: DENISE TAYLOR

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. COORDINATE WITH MECHANICAL INSTALLER FOR EXACT POWER REQUIREMENTS AND LOCATIONS PRIOR TO ROUGH IN AND THROUGHOUT CONSTRUCTION.
- C. 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. HEAT PUMP UNITS TO BE INTERCONNECTED WITH A CORRESPONDING APARTMENT FAN COIL UNIT. REFER TO TYPICAL UNIT PANEL SCHEDULES ON E1.17 FOR CIRCUITING INFO. COORDINATE WITH THE MECHANICAL EQUIPMENT INSTALLER FOR EXACT POWER REQUIREMENTS AND LOCATIONS PRIOR TO ROUGH IN. FOR ADDITIONAL INFORMATION, CONSULT THE MECHANICAL PLAN SHEETS.
2. ELECTRICAL CONTRACTOR TO COORDINATE WITH LANDSCAPE PROVIDER FOR EXACT LOCATION OF POWER CONNECTIONS TO LOW VOLTAGE LIGHTING. LANDSCAPE LIGHTING SHALL BE CIRCUITED VIA CIRCUIT H2-21.
3. ELECTRICAL CONTRACTOR TO COORDINATE WITH LANDSCAPE PROVIDER FOR EXACT LOCATION OF POWER CONNECTIONS AS REQUIRED FOR LANDSCAPE IRRIGATION AND SHALL BE CIRCUITED VIA CIRCUIT H2-19.
4. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR GAS FIREPLACE. CONSULT WITH MECHANICAL CONTRACTOR FOR EXACT WIRING REQUIREMENTS PRIOR TO ROUGH IN. CONSULT INTERIOR DECORATOR FOR EXACT LOCATION OF CONTROL SWITCH(ES) IF REQUIRED.
5. PROVIDE 120V TWIST TIMER SWITCH (MAX. 60 MINUTES, "NO HOLD") IN WEATHER PROOF BOX FOR GAS GRILL AND FIRE PIT IGNITER CONTROLS. CIRCUIT FROM PANEL 'H2'. SEE DETAIL 5/E1.22 FOR EMERGENCY SHUFF-OFF DIAGRAM.
6. PROVIDE EMERGENCY SHUTOFF CONTROLS FOR GAS APPLIANCES LOCATED ON TERRACE. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. CIRCUIT FROM PANEL 'H2'. SEE DETAIL 5/E1.22 FOR EMERGENCY SHUFF-OFF DIAGRAM. PROVIDE WEATHER PROOF LABEL EACH BUTTON WITH DEVICE IT CONTROLS.
7. LOCATE WEATHERPROOF GFCI RECEPTACLES WITHIN 25'-0" OF ALL MECHANICAL EQUIPMENT AS REQUIRED BY CODE. MOUNT AT CURBS WHEREVER POSSIBLE. CIRCUIT AS INDICATED.
8. CONSULT ARCHITECT AND/OR MECHANICAL PLANS FOR ADDITIONAL INFORMATION REGARDING THE FIREPLACE VENT FAN ON ROOF. PROVIDE ELECTRICAL CONNECTION INTERCONNECT WITH FIREPLACE LOCATED AT THE FIRST FLOOR LOBBY.



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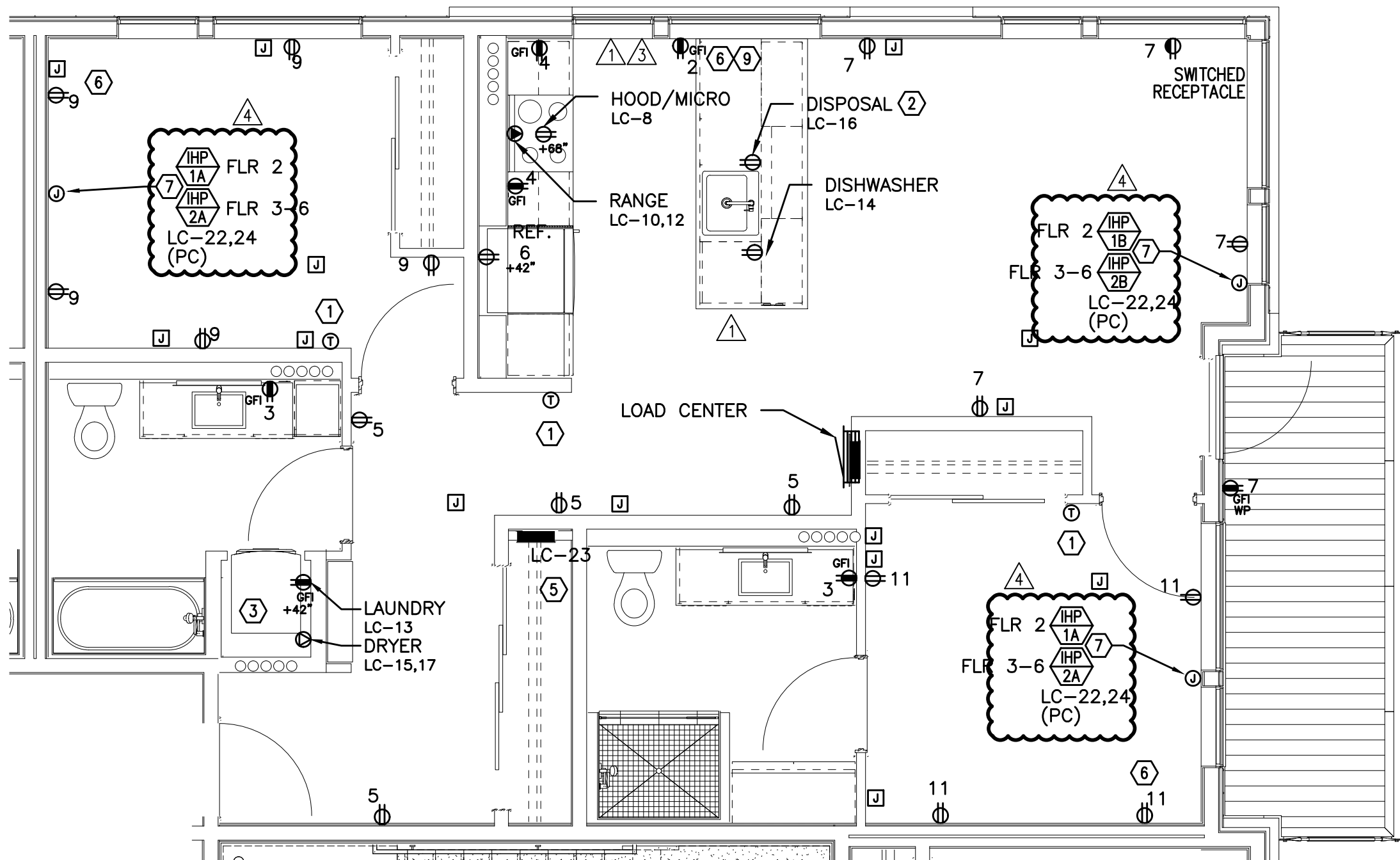
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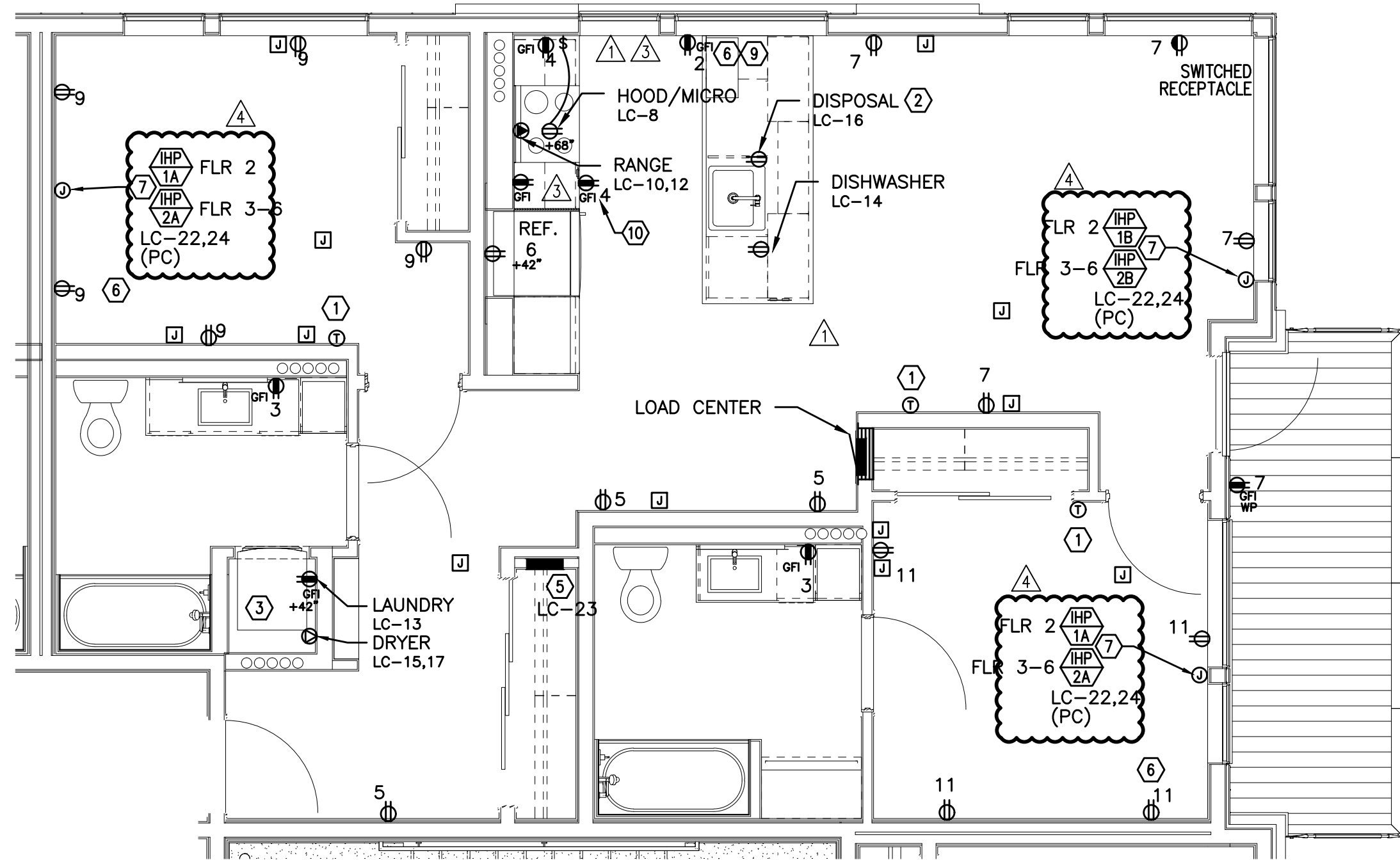
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E3.07



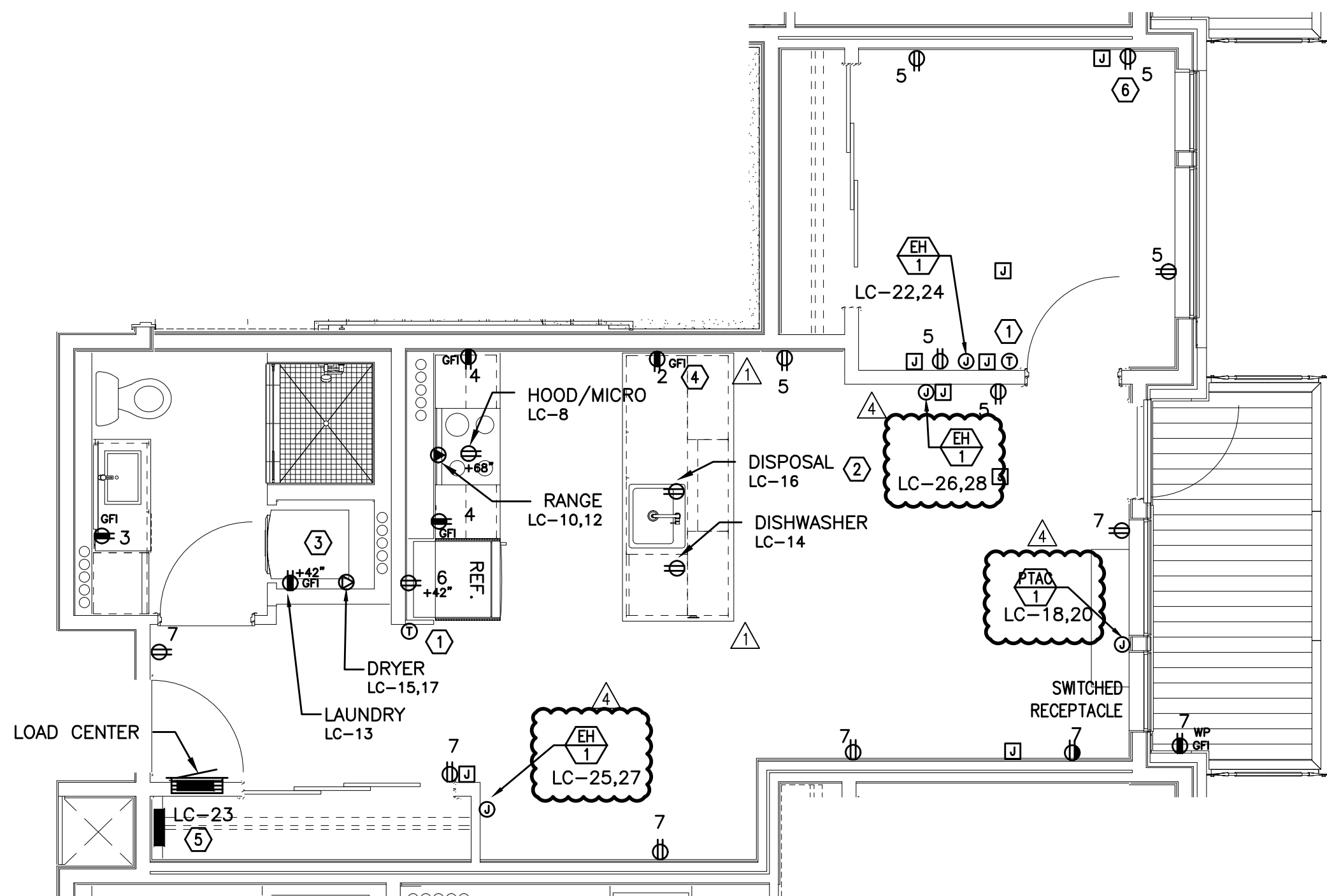
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E4.11

TYPICAL UNIT TYPE A
2 BED/2 BATH – POWER PLAN
SCALE: 1/4" = 1'-0"



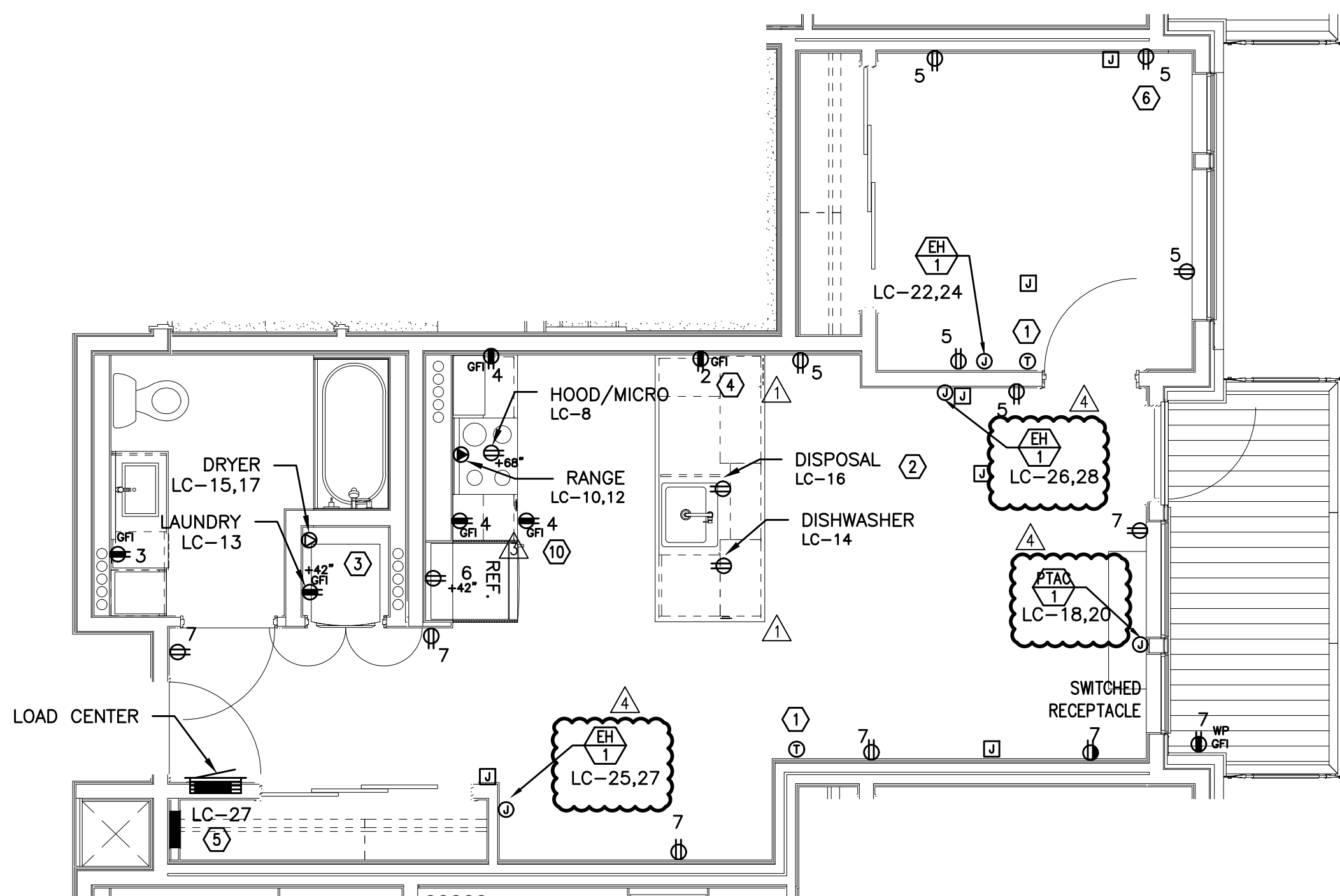
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E4.11

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



3
E4.11

TYPICAL UNIT TYPE B
1 BED/1 BATH – POWER PLAN
SCALE: 1/4" = 1'-0"



4
E4.11

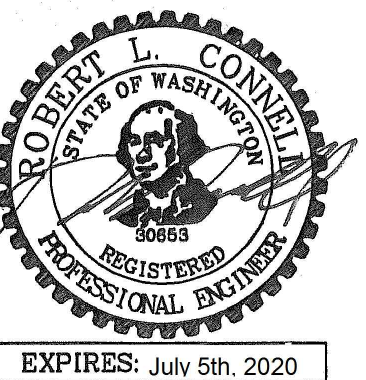
TYPICAL UNIT TYPE B-ADA
1 BED/1 BATH – POWER PLAN
SCALE: 1/4" = 1'-0"

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 E1.17 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:

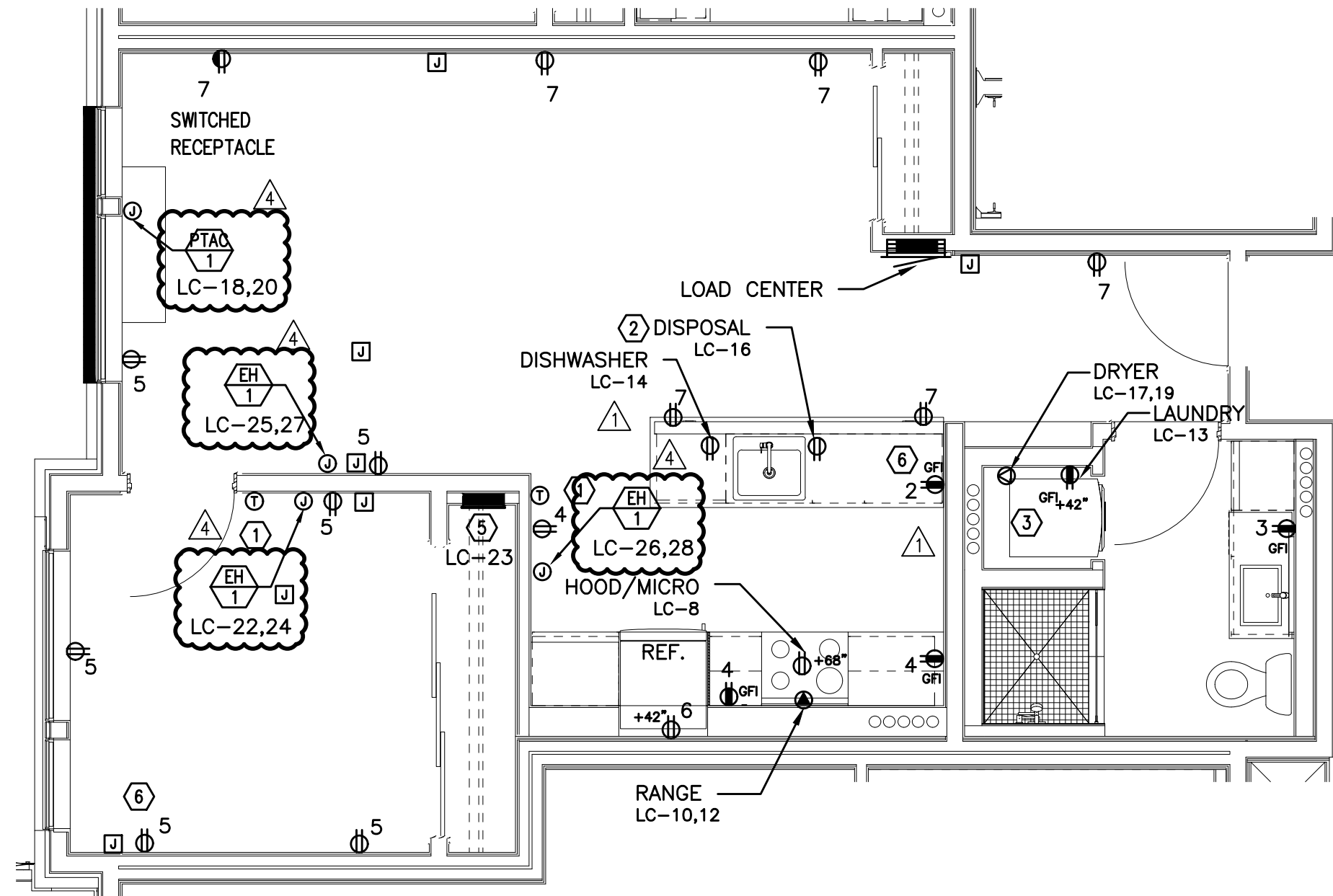
- PROVIDE WIRE CONNECTION FOR THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- PROVIDE ONE 20A, 120V, 1P GFCI DUPLEX RECEPTACLE UNDER KITCHEN SINK FOR DISPOSAL POWER CONNECTION. DISPOSAL TO BE PROVIDED WITH "SAFEAIRE" SINK DISPOSAL AIR SWITCH, MOUNTED PER ARCHITECT'S DIRECTION. VERIFY DEVICE FINISH WITH ARCHITECT PRIOR TO ORDERING.
- REFER TO DETAIL 2/E1.17 FOR TYPICAL LAUNDRY ALCOVE RECEPTACLE LOCATIONS. COORDINATE INSTALLATION WITH MECHANICAL & PLUMBING CONTRACTOR.
- 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.



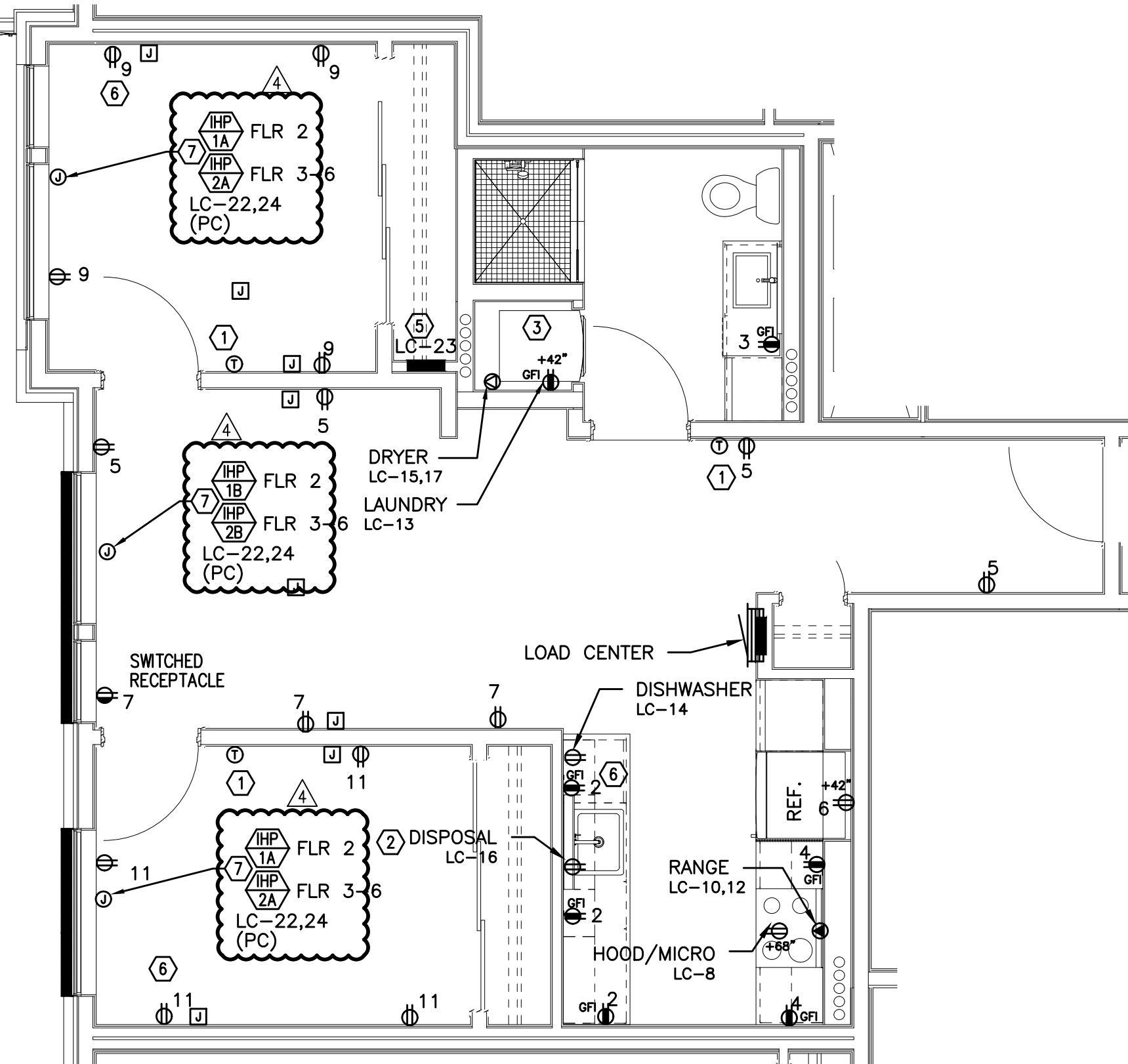
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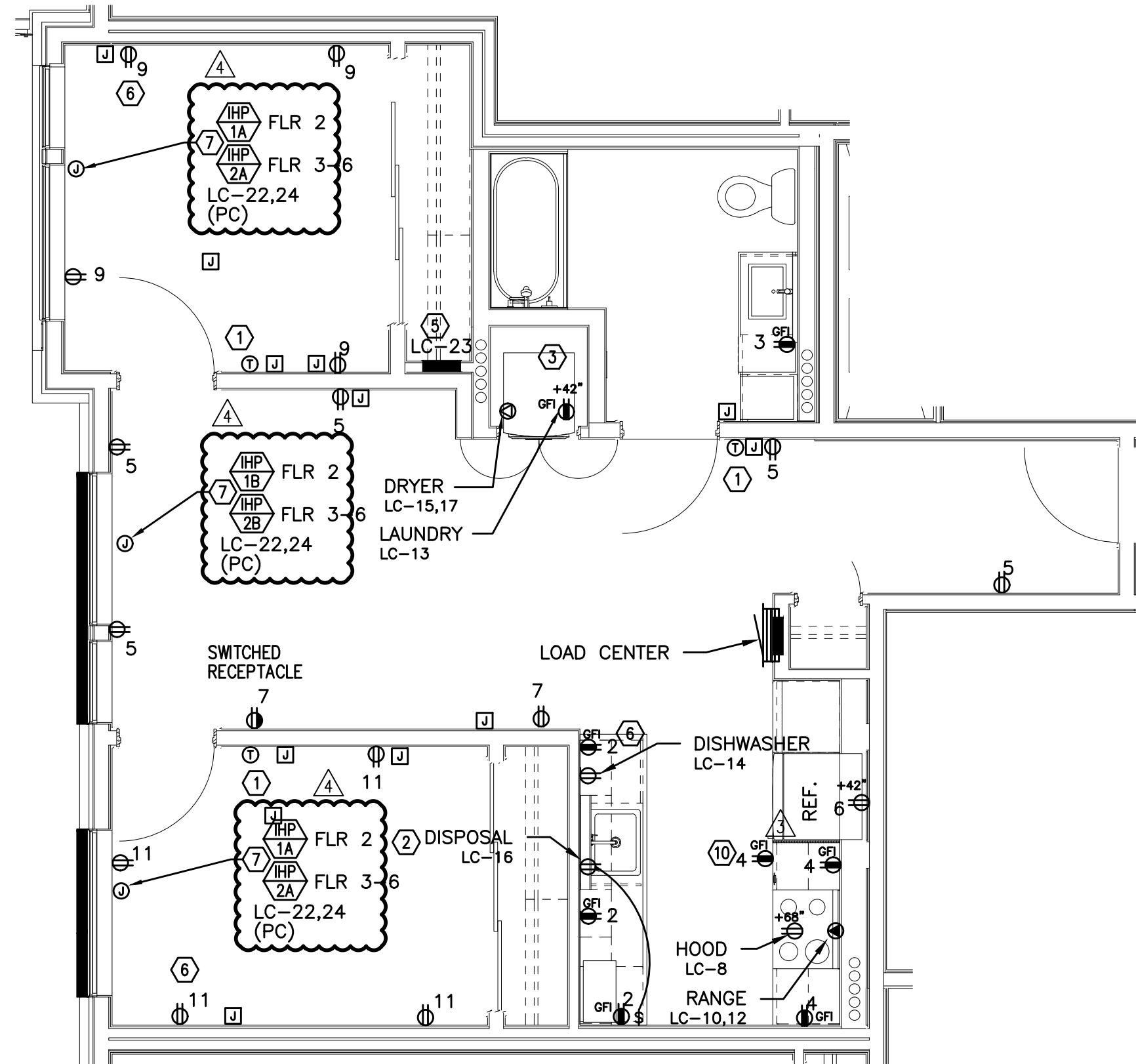
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- △ PLAN REVIEW 04.24.2020
- △ PLAN REVIEW 08.10.2020



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"



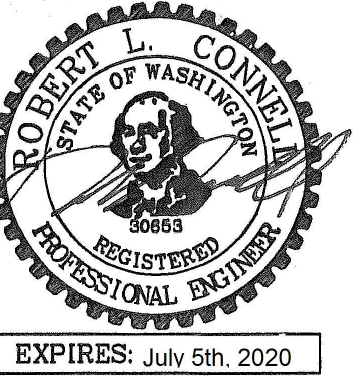
TYPICAL UNIT TYPE D-ADA
 3 2 BED/1 BATH – POWER PLAN
 E4.12 SCALE: 1/4" = 1'-0"

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.
- 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.
- REFER TO DETAIL 2/E1.17 FOR TYPICAL LAUNDRY ALCOVE RECEPTACLE LOCATIONS. COORDINATE INSTALLATION WITH MECHANICAL & PLUMBING CONTRACTOR.
- 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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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



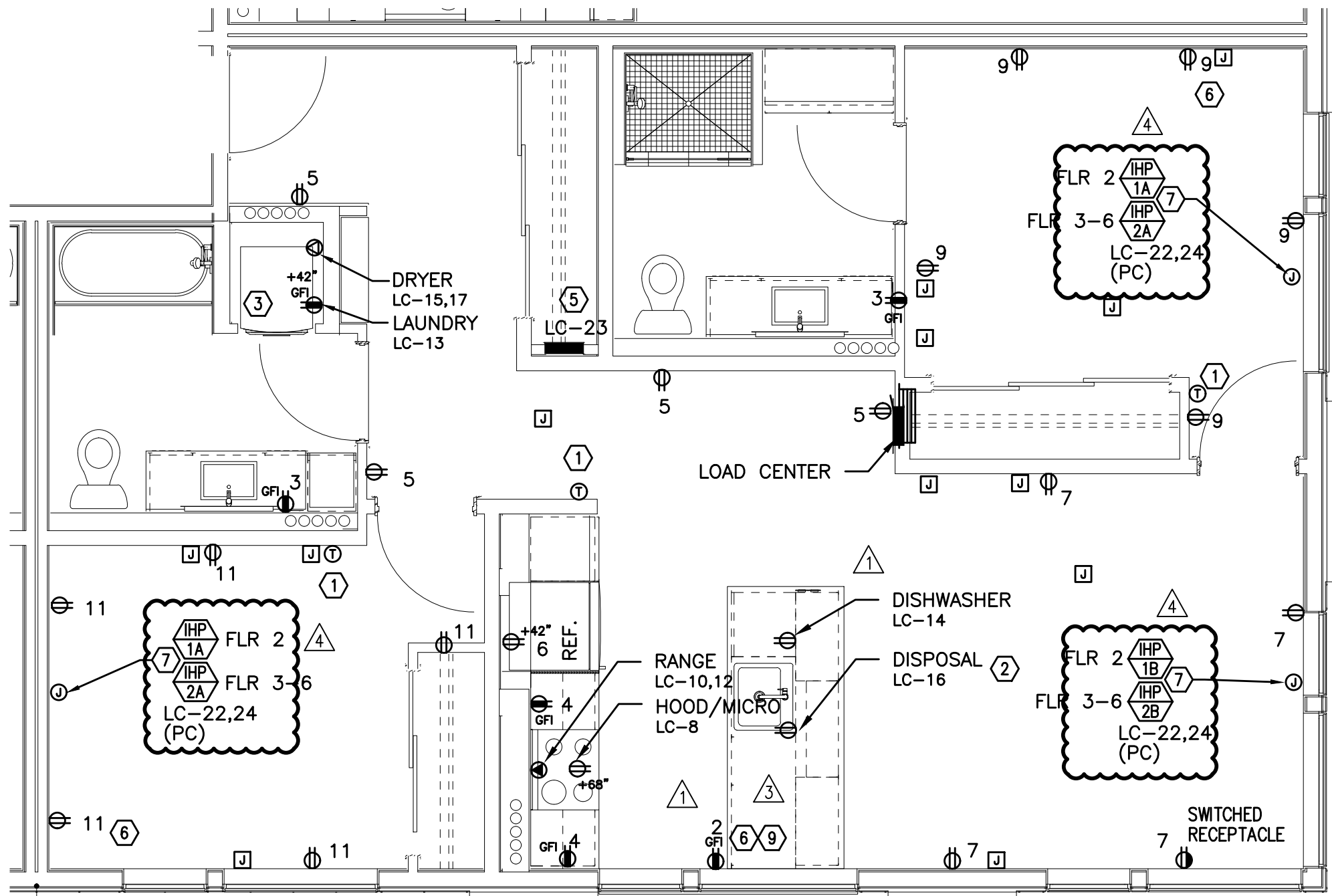
EXPIRES: July 5th, 2020

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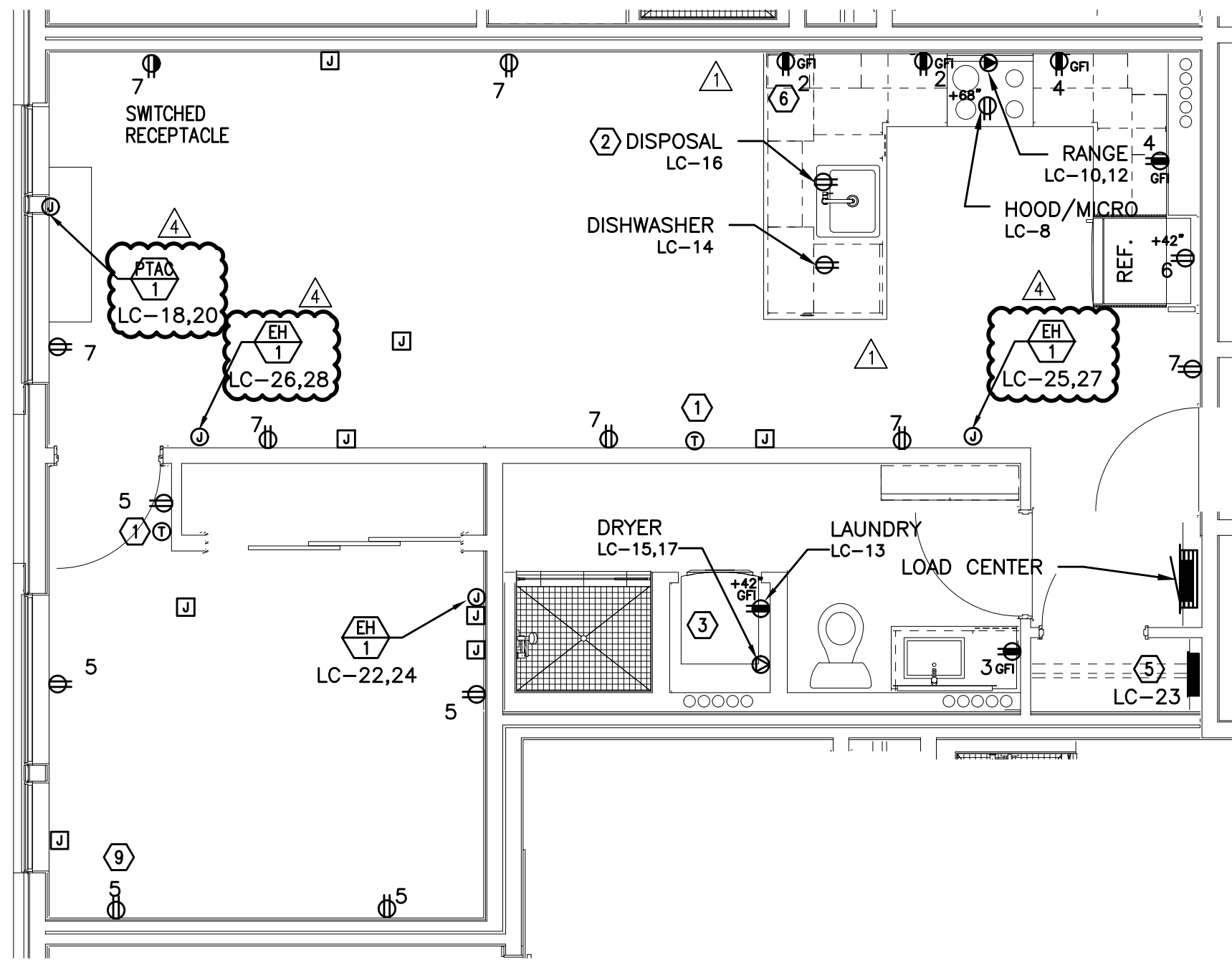
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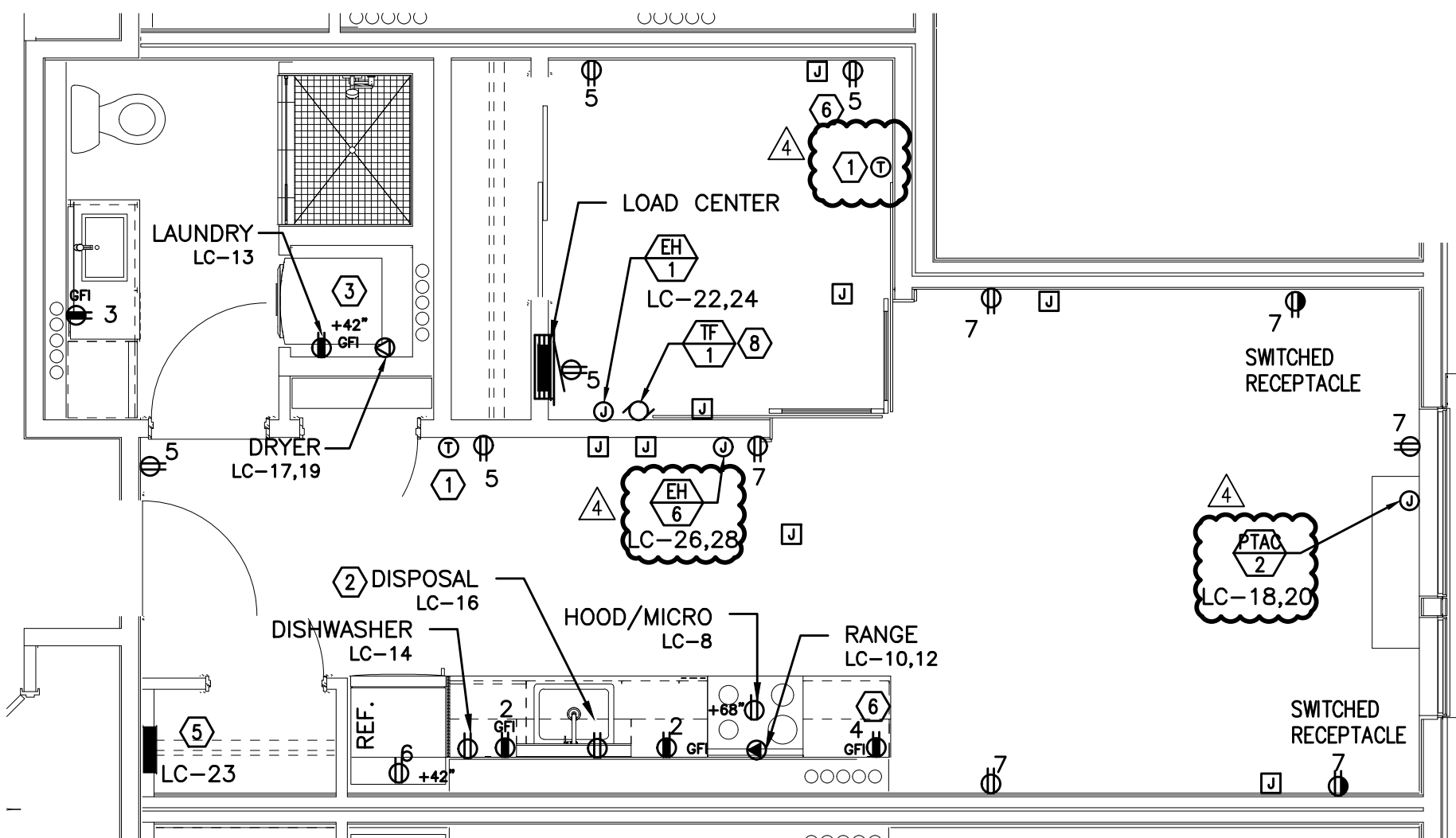
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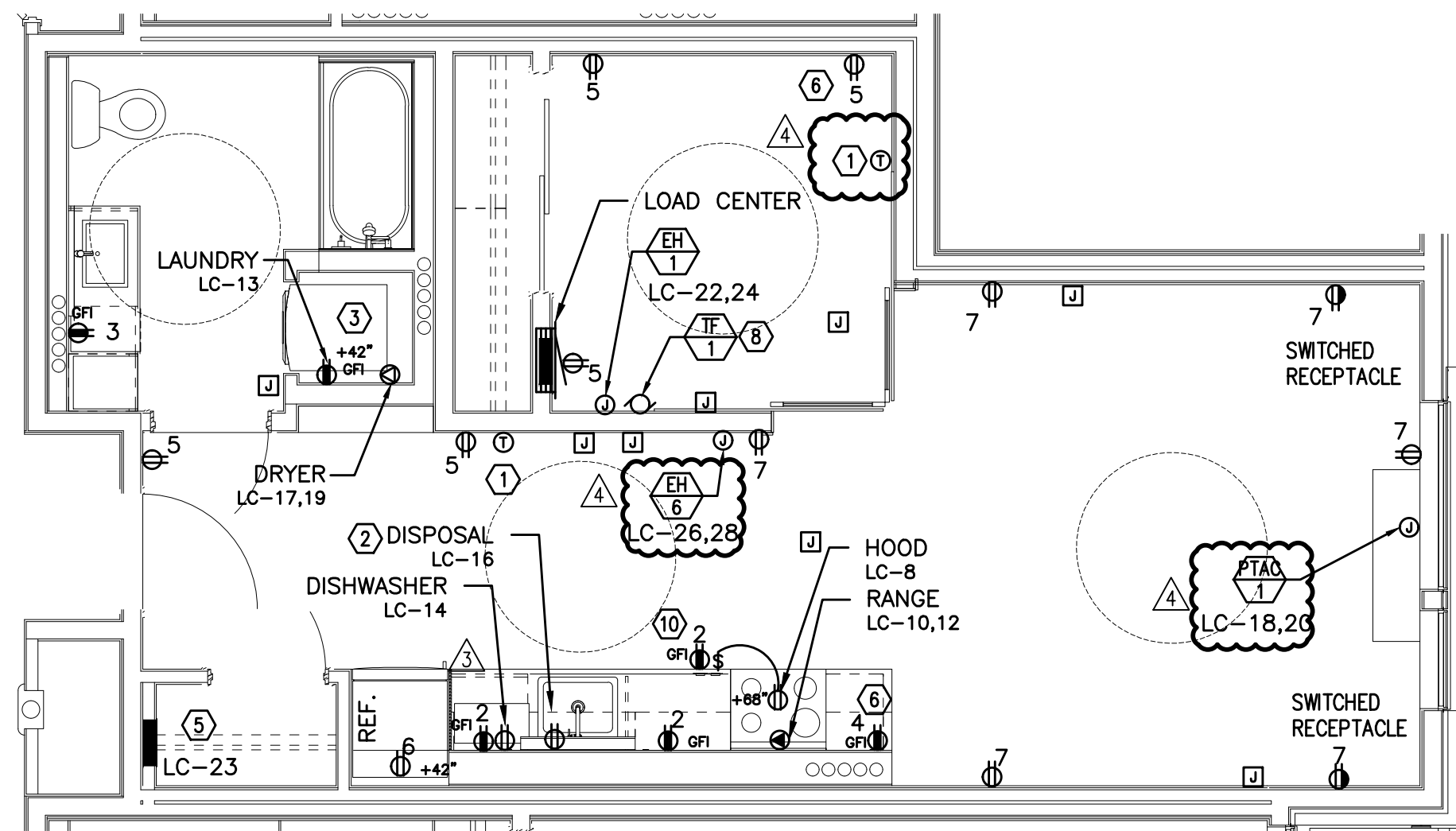
TYPICAL UNIT TYPE E

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

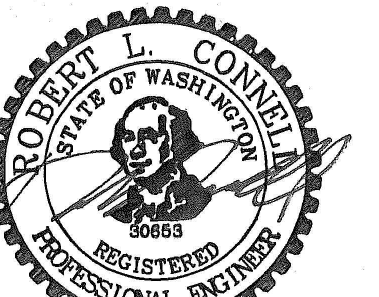
4 0 BED/1 BATH – POWER PLAN
E4.13 SCALE: 1/4" = 1'-0"

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EXPIRES: July 5th, 2020

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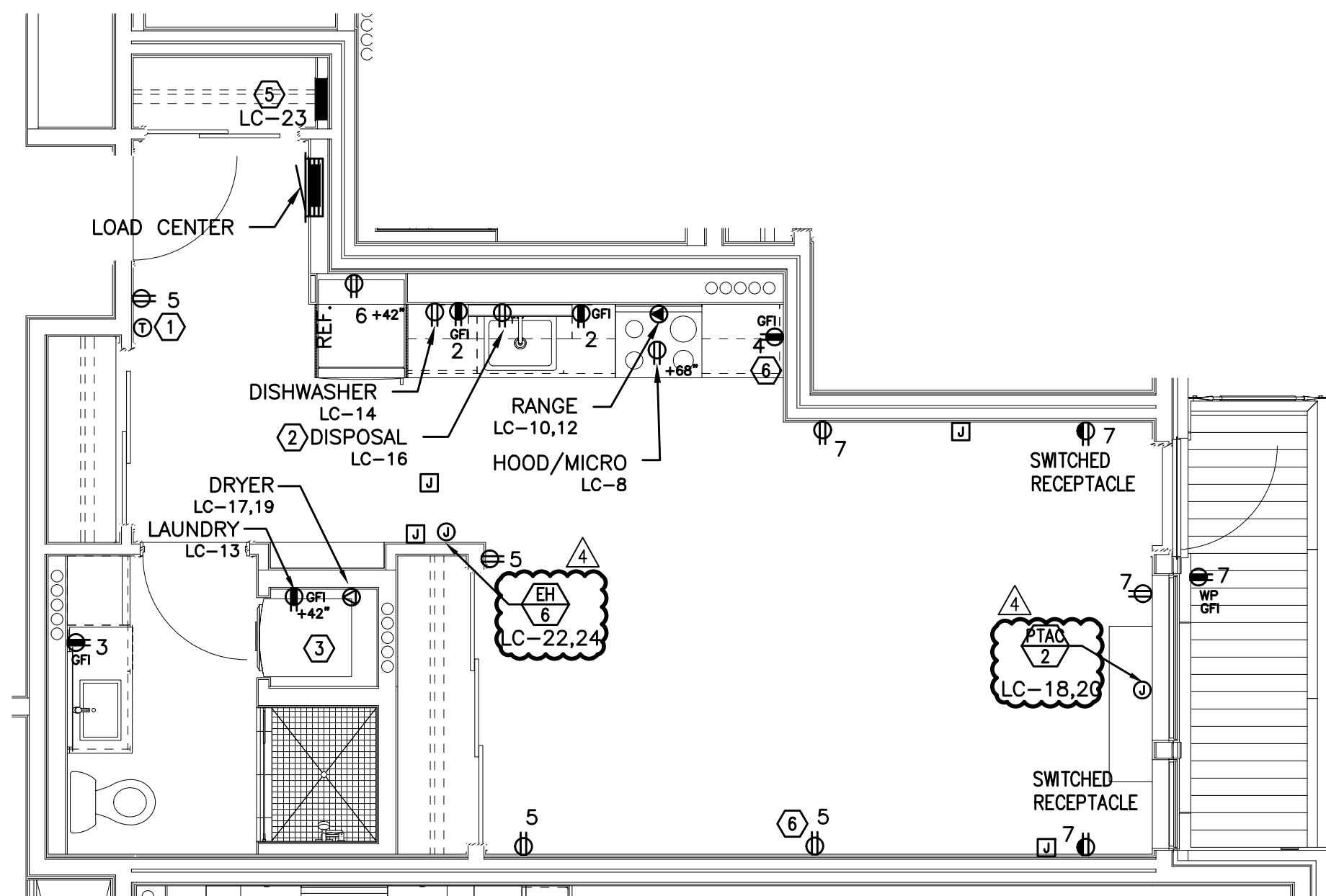
REVISIONS

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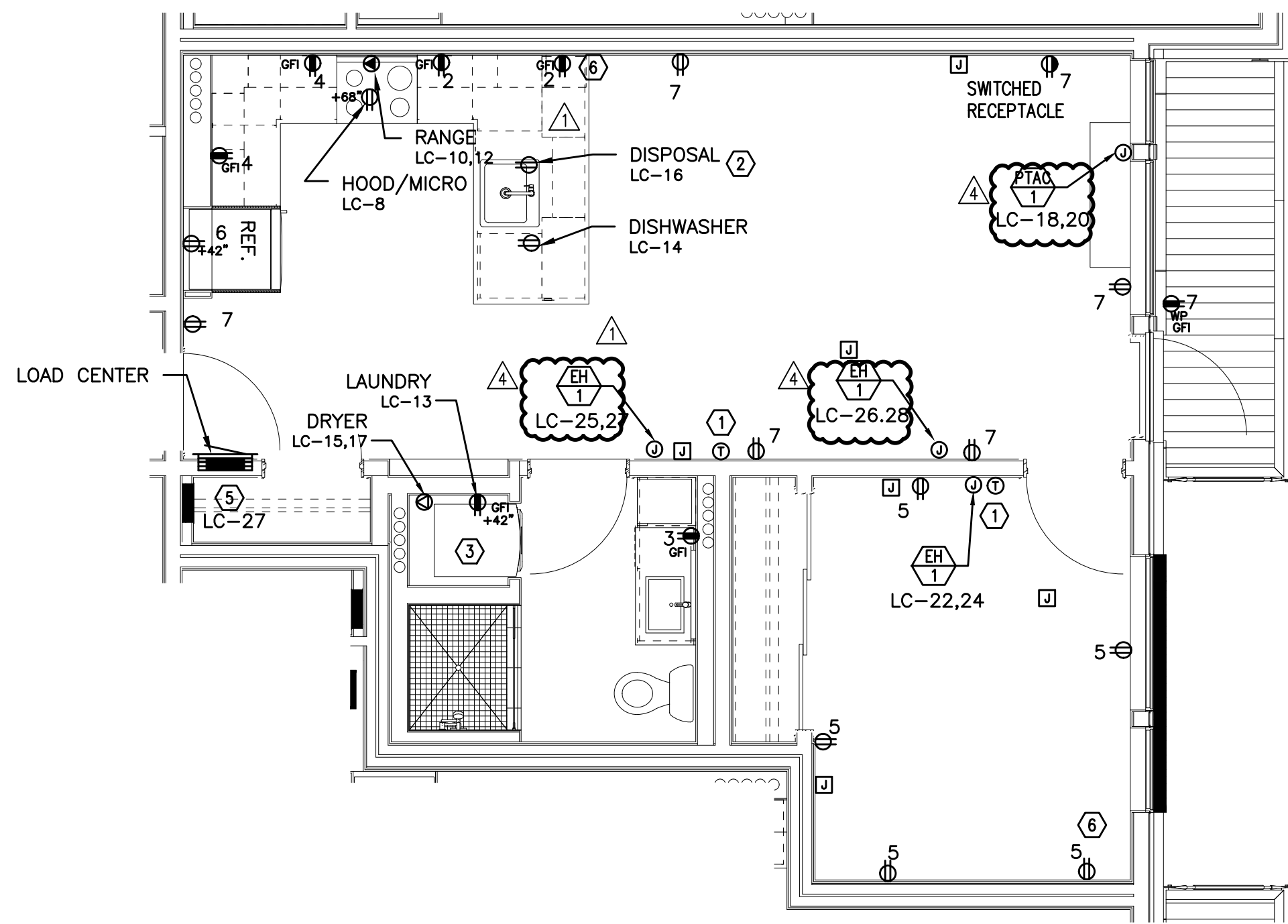
AEGIS
MIXED-USE DEVELOPMENT
312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

SHEET:

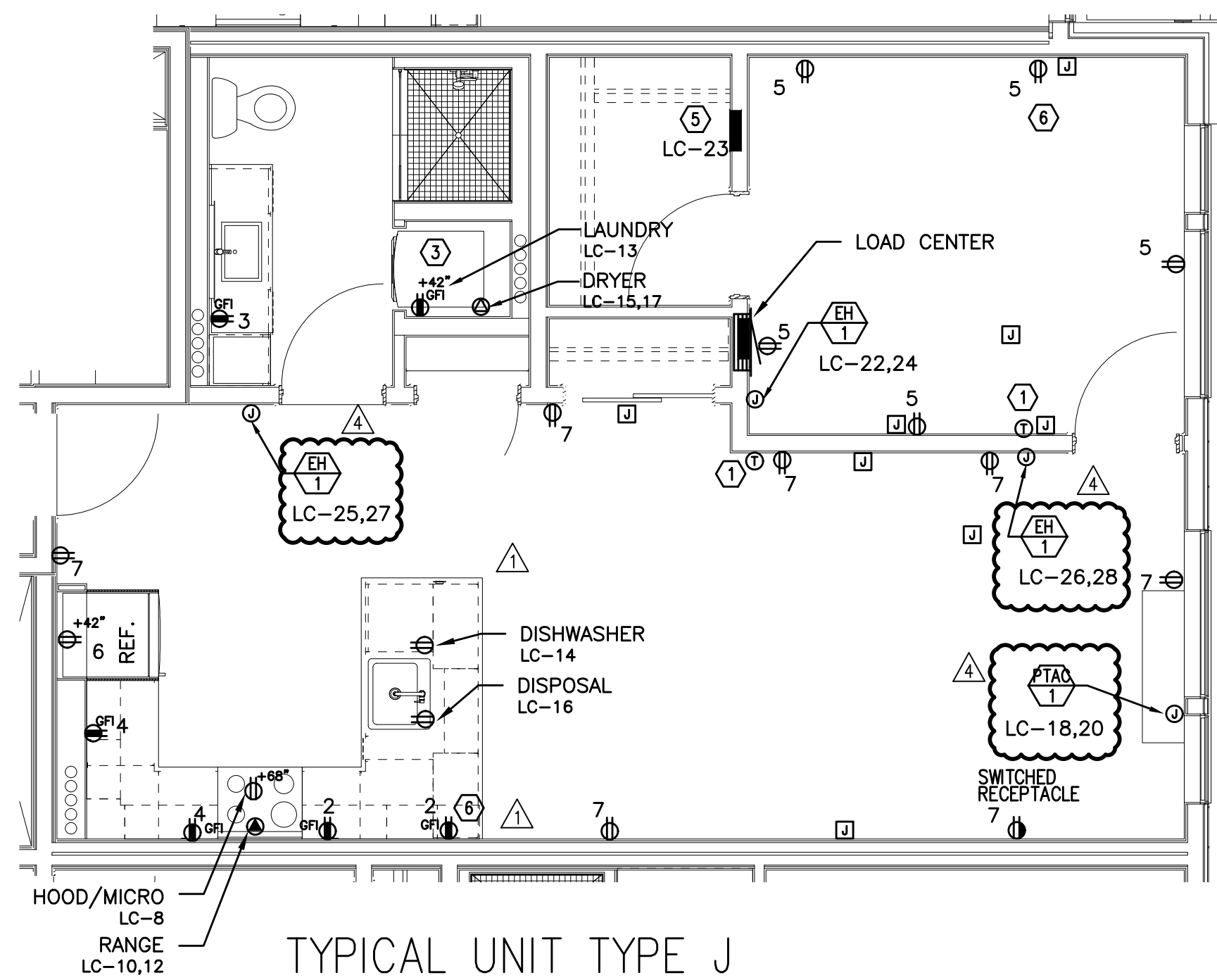
E4.14



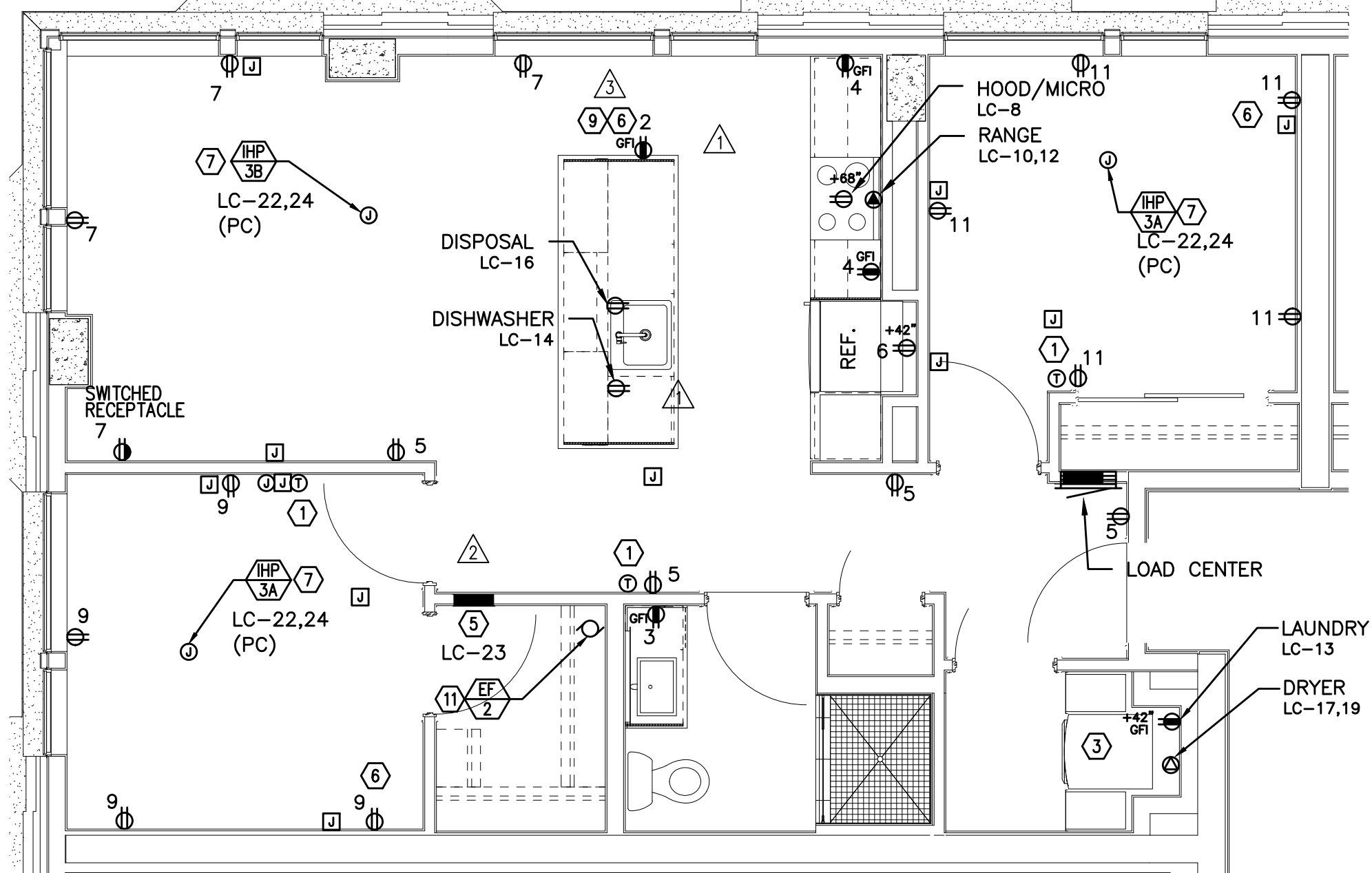
TYPICAL UNIT TYPE H

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
E4.14 SCALE: 1/4" = 1'-0"

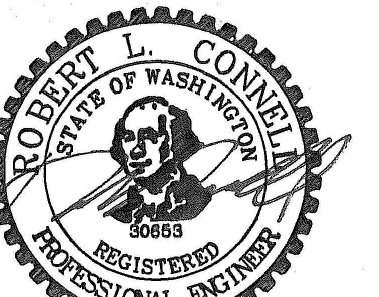
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PHN: (503) 234-0548
FAX: (503) 234-0677
CONTACT: DENISE TAYLOR



EXPIRES: July 5th, 2020

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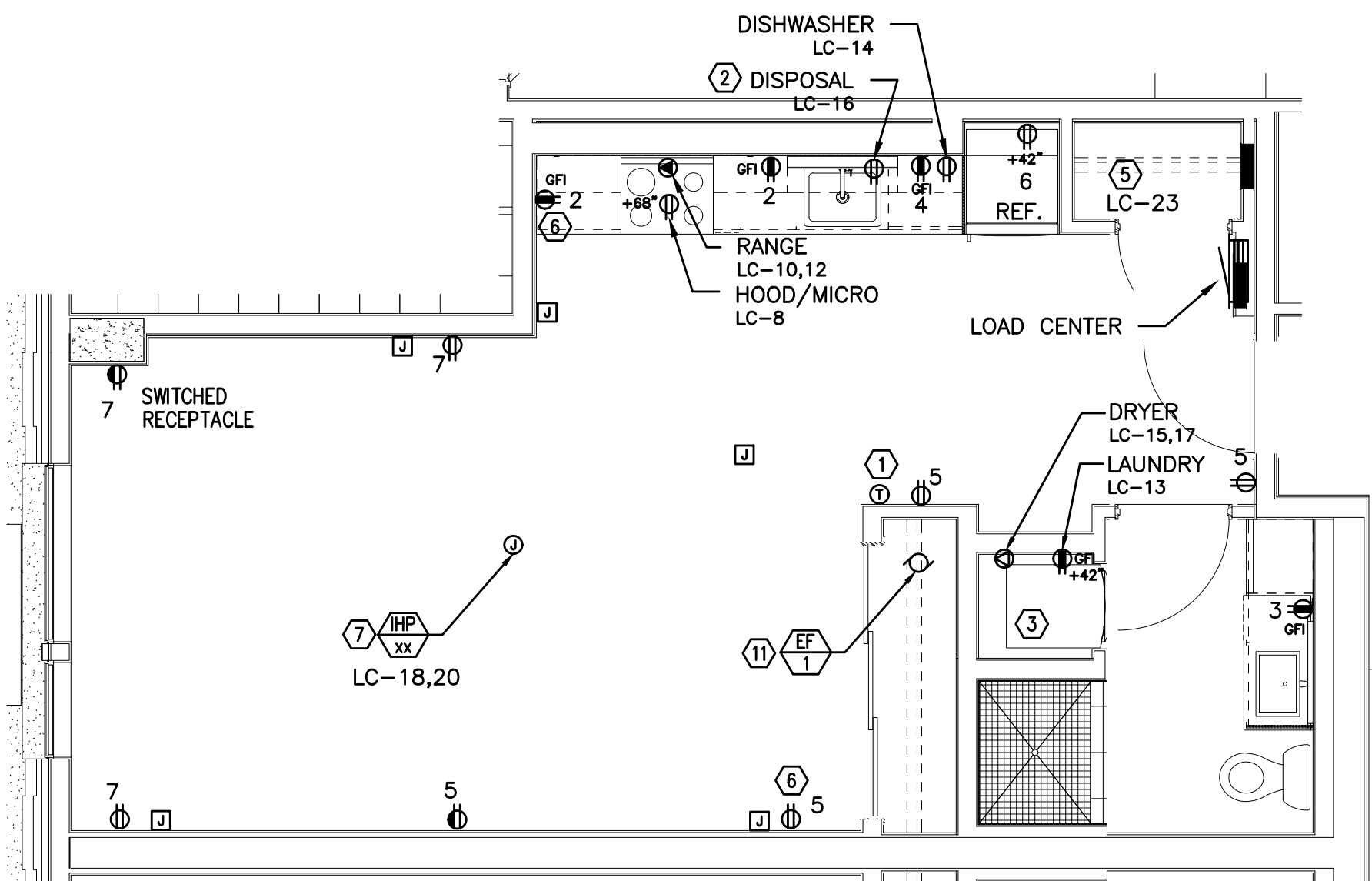
- △ PLAN REVIEW 01.24.2020
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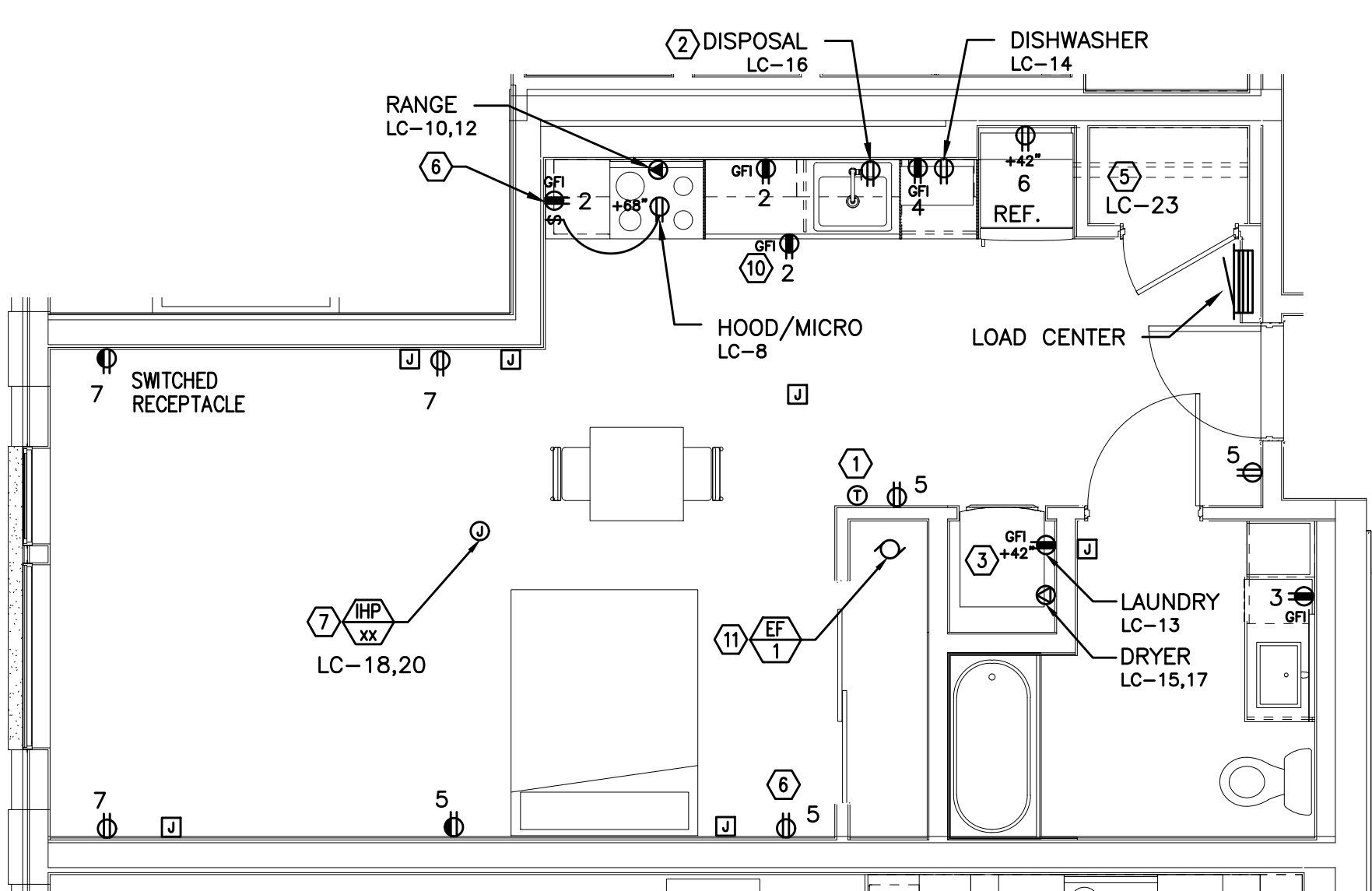
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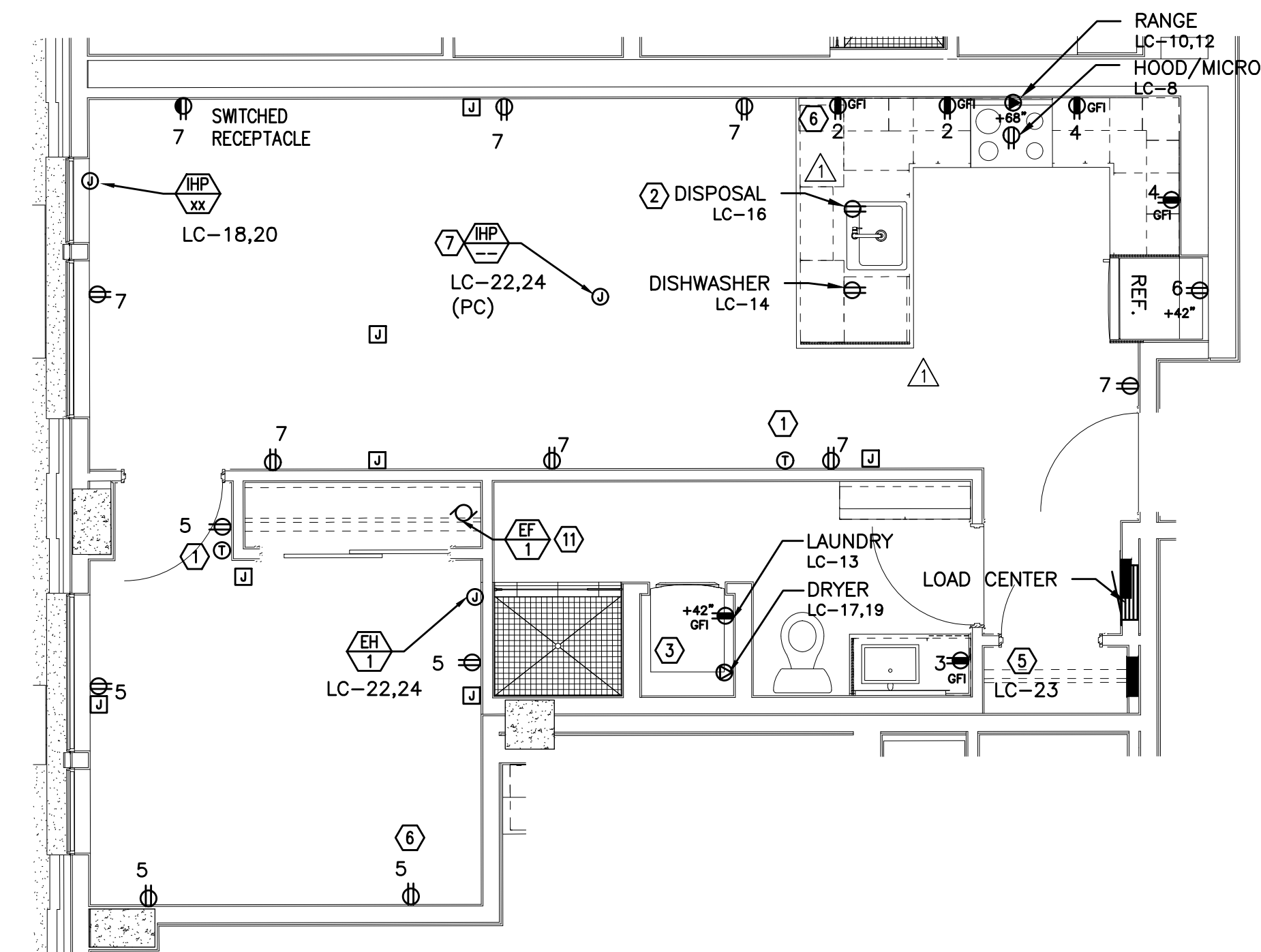
TYPICAL UNIT TYPE L

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



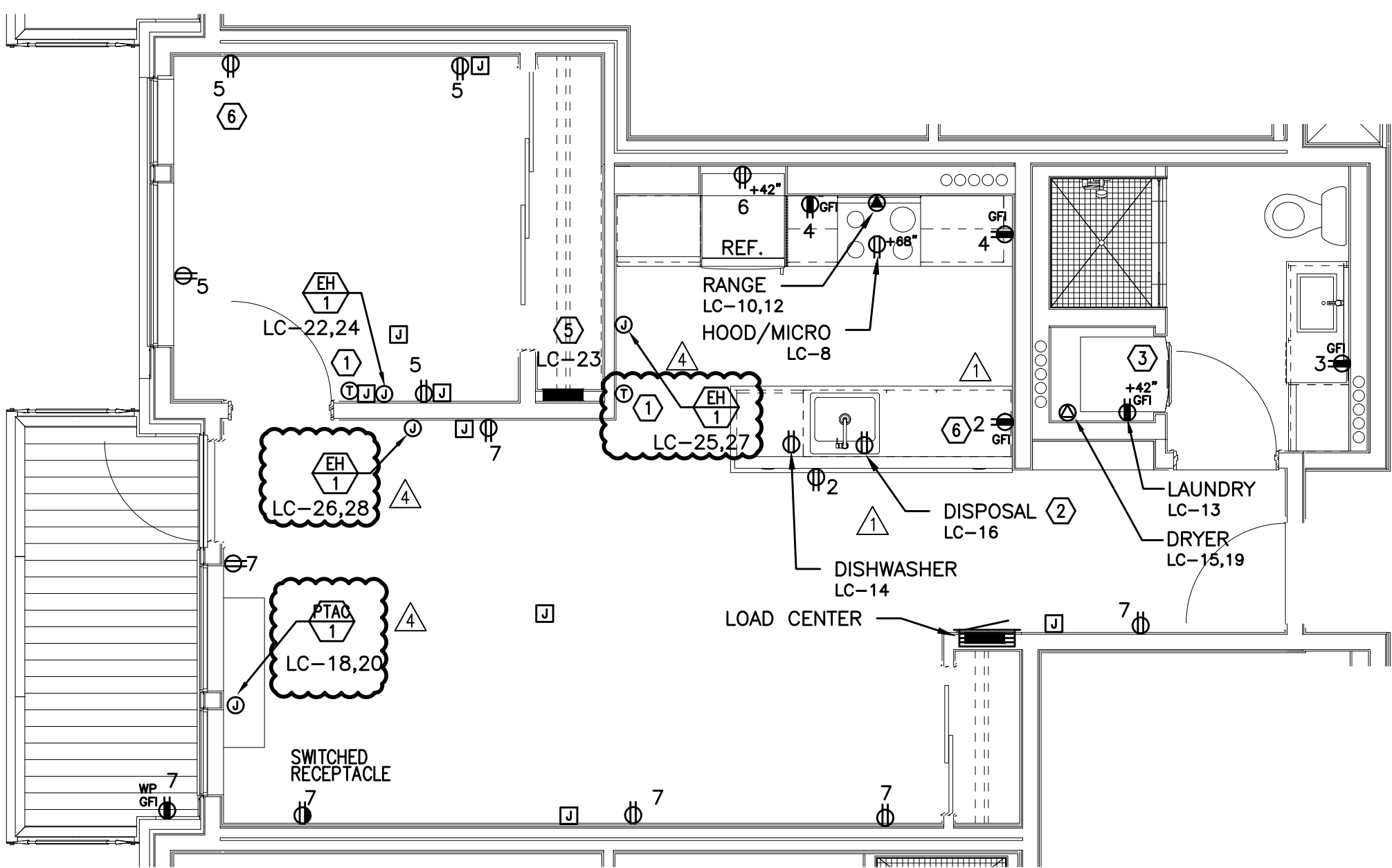
TYPICAL UNIT TYPE L-ADA

2 0 BED/1 BATH – POWER PLAN
E4.15 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE M

3 1 BED/1 BATH – POWER PLAN
E4.15 SCALE: 1/4" = 1'-0"



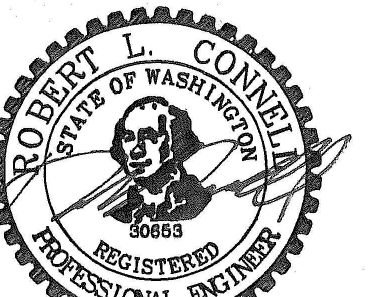
TYPICAL UNIT TYPE N

4 1 BED/1 BATH – POWER PLAN
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M
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FAX: (503) 234-0677
CONTACT: DENISE TAYLOR

SHEET:

E4.15



EXPIRES: July 6th, 2020

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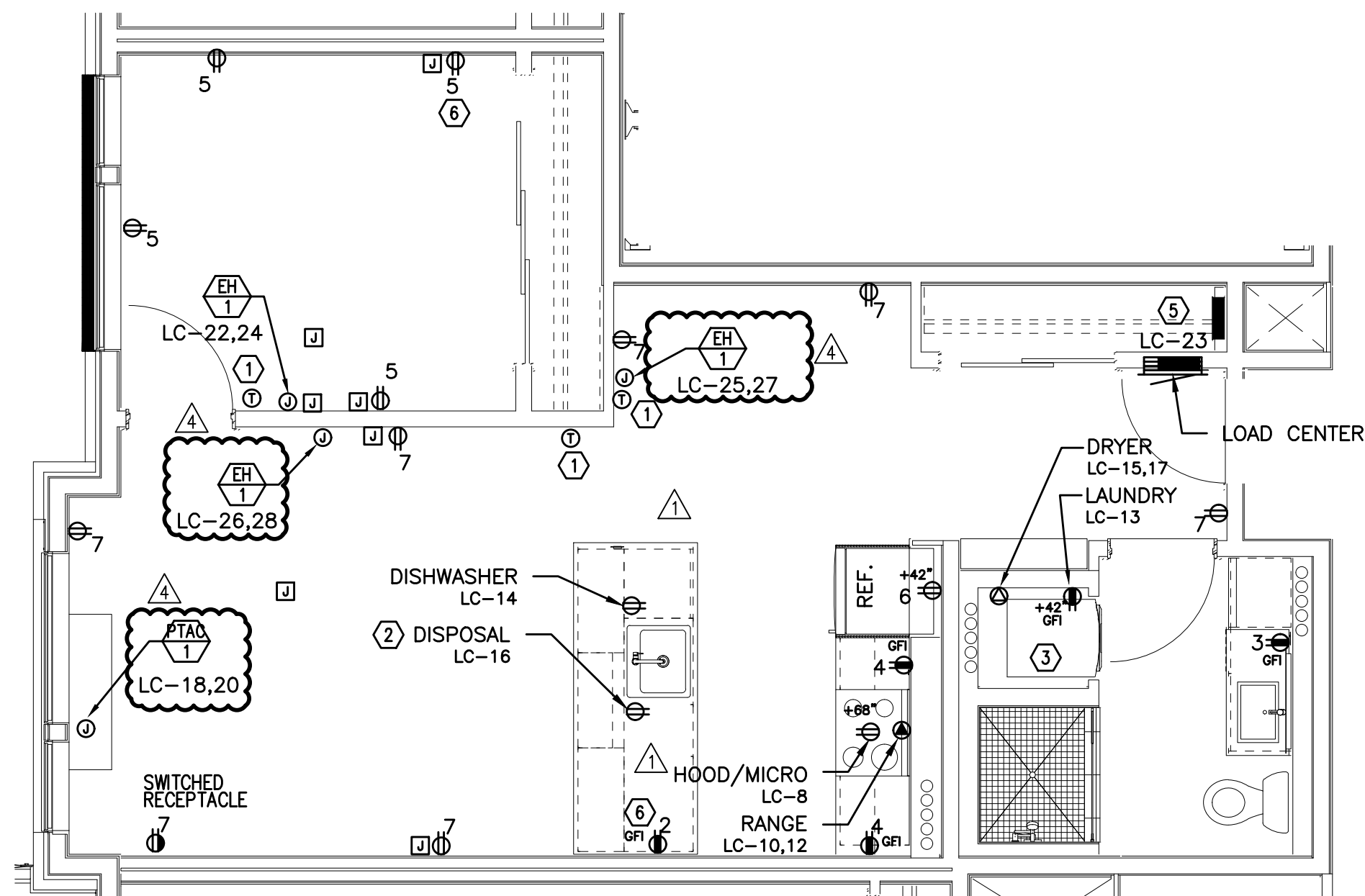
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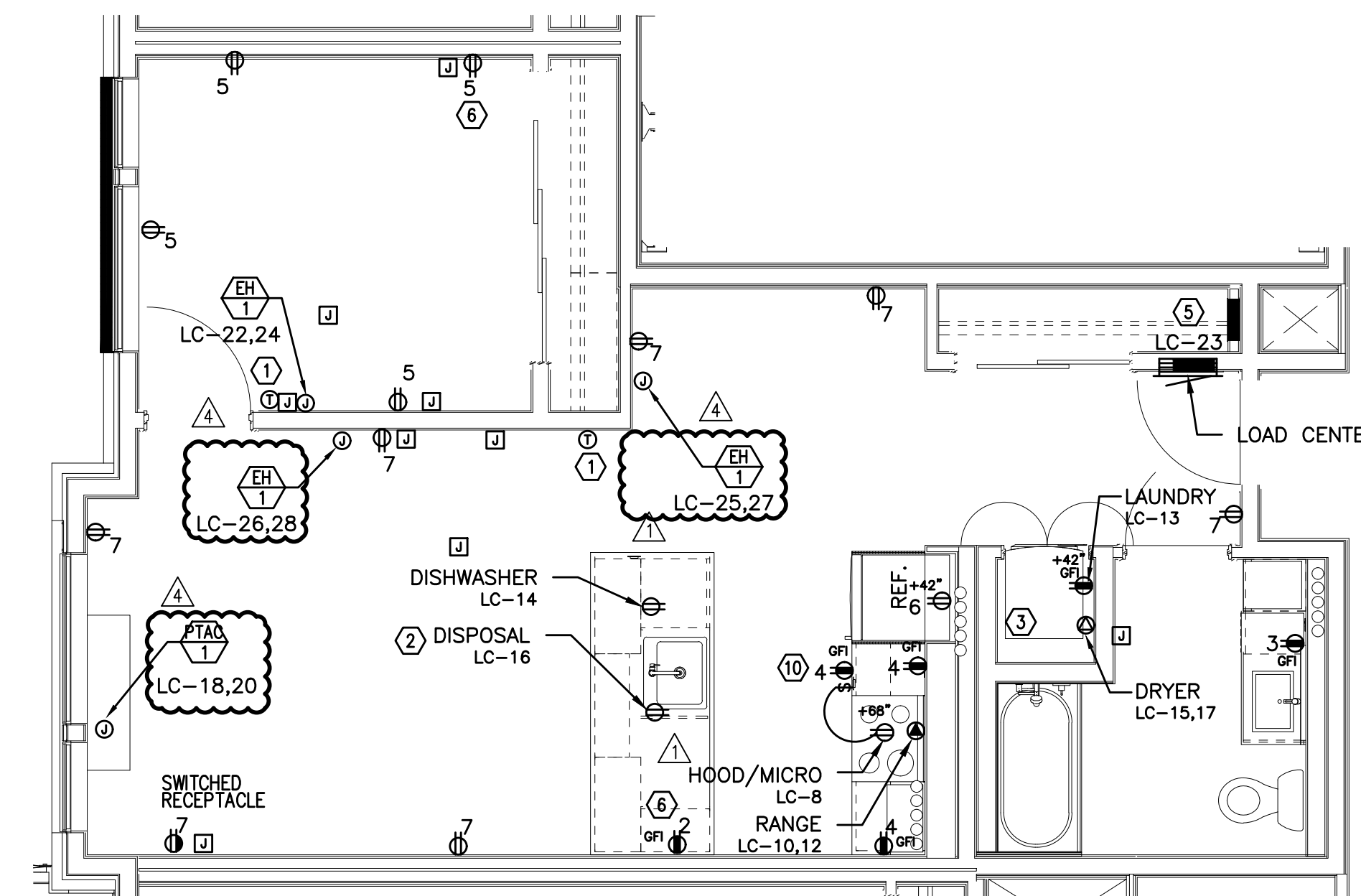
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5. PROVIDE ONE 15A, RECEPTACLE CIRCUIT FROM TENANT LOAD CENTER FOR TELECOM SMART PANEL. COORDINATE WORK WITH SERVICE PROVIDER FOR EXACT LOCATION AND FINAL CONNECTION.
6. PROVIDE ONE 20A, 120V, 1P RECEPTACLE WITH USB PORT, MOUNTED AT 44" A.F.F (MAX) AT KITCHEN ISLAND/PENNISULA 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.



TYPICAL UNIT TYPE O

1 1 BED/1 BATH – POWER PLAN

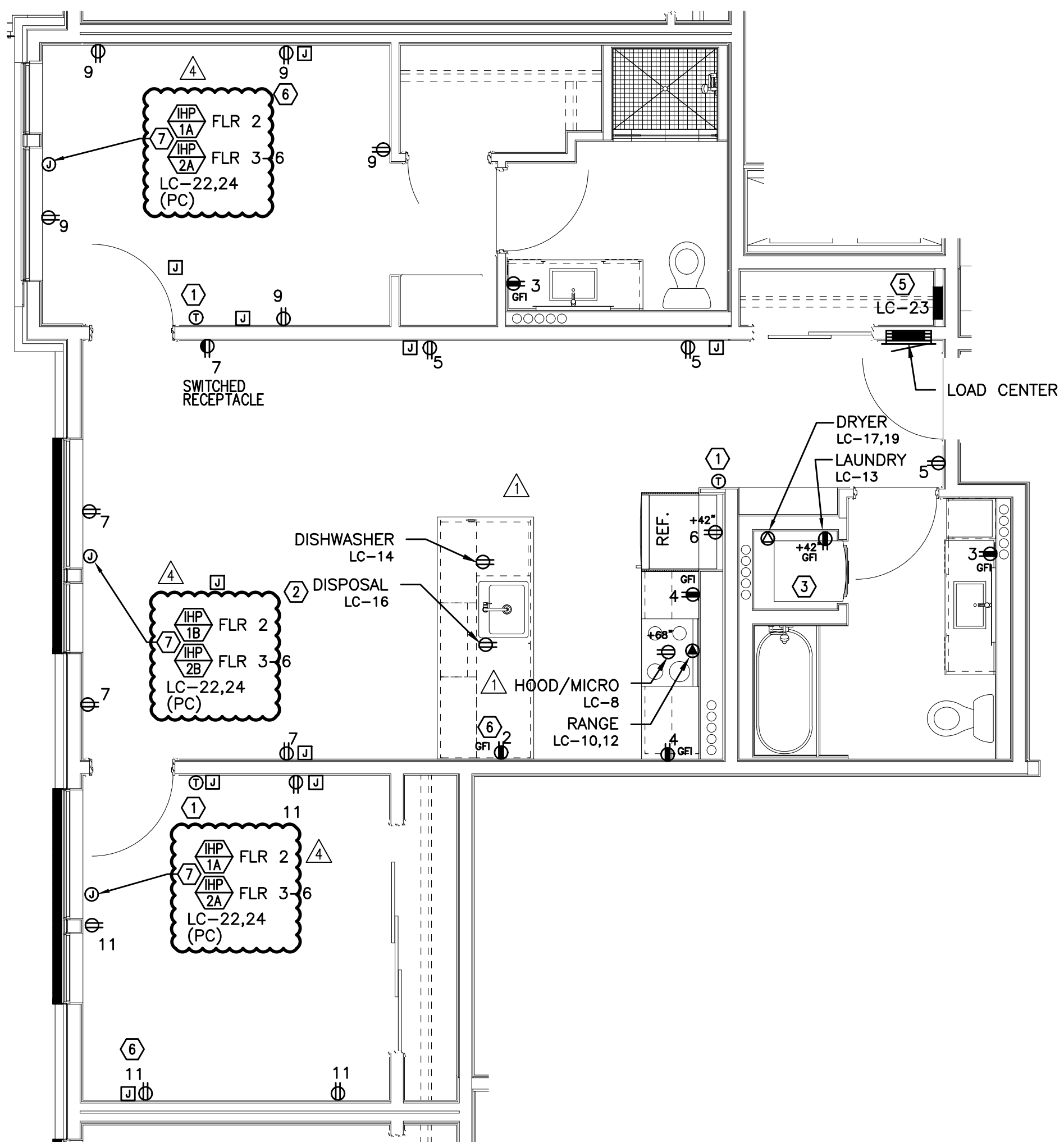
E4.16 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE O-ADA

2 1 BED/1 BATH – POWER PLAN

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



TYPICAL UNIT TYPE P

2 2 BED/2 BATH – POWER PLAN

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