

ELECTRICAL SYMBOL LIST

LIGHTING SYMBOLS

	FLUORESCENT LIGHT FIXTURE, RECESSED. TYPE AS NOTED.
	FLUORESCENT LIGHT FIXTURE, RECESSED - EMERGENCY
	FLUORESCENT LIGHT FIXTURE, SURFACE MOUNT
	FLUORESCENT LIGHT FIXTURE, STRIP
	FLUORESCENT LIGHT FIXTURE, STRIP - EMERGENCY
	DOWNLIGHT FIXTURE, RECESSED
	DOWNLIGHT FIXTURE, RECESSED - EMERGENCY
	FLUORESCENT LIGHT FIXTURE, WALL MOUNT
	LIGHT FIXTURE, WALL MOUNT
	LIGHT FIXTURE, TRACK W/ HEADS AS SHOWN ON PLAN
	EXIT SIGN, UNIVERSAL MOUNT, W/ DIRECTIONAL ARROW
	EMERGENCY LIGHT W/ BATTERY PACK, +8'-0" A.F.F.
	H.I.D. AREA LUMINAIRE, POLE MOUNT

SWITCH SYMBOLS

	SWITCH, SPST +44" A.F.F. TO CENTER
	SWITCH, 3-WAY +44" A.F.F. TO CENTER
	(2) SWITCHES, 3-WAY +44" A.F.F. TO CENTER
	SWITCH, 4-WAY +44" A.F.F. TO CENTER
	SWITCH, DIMMER +44" A.F.F. TO CENTER
	SWITCH, SPST, W/PILOT LIGHT +44" A.F.F. TO CENTER
	SWITCH, KEY-OPERATED +44" A.F.F. TO CENTER
	PHOTOCELL

	OCCUPANCY SENSOR CONTROL TYPE 1 WALL MOUNT - ON/OFF CONTROL ONLY (TYPICAL FOR RESTROOMS, EQUIPMENT ROOMS & AREAS THAT DO NOT REQUIRE DIMMING)
	OCCUPANCY SENSOR CONTROL-TYPE 1 WITH DIMMING WALL MOUNT (TYPICAL FOR AMENITY AREAS, CONFERENCE ROOMS, OFFICES & AREAS THAT REQUIRE DIMMING)
	OCCUPANCY SENSOR CONTROL-TYPE 2 WITH 360 DEGREE COVERAGE CEILING MOUNT - ON/OFF CONTROL ONLY

POWER SYMBOLS

	RECEPTACLE, DUPLEX +18" AFF
	RECEPTACLE, QUAD +18" AFF
	RECEPTACLE, MT'D ABOVE COUNTER OR HT. INDICATED
	RECEPTACLE, DUPLEX ON 'SWITCHED' CIRCUIT +18" AFF
	EMERGENCY DEVICES MT'D ABOVE COUNTER OR HT. INDICATED
	FURNITURE SYSTEM CONNECTION POKE THRU
	RECEPTACLE, SPECIAL (COORDINATE WITH EQUIPMENT SERVED)
	FLOORBOX WITH QUAD RECEPTACLE, REFER TO LOW VOLTAGE DRAWINGS FOR ADD'L REQUIREMENTS
	POWER POLE
	MAGNETIC MOTOR STARTER
	MANUAL MOTOR STARTER
	RELAY
	PUSHBUTTON STATION
	JUNCTION BOX
	THERMOSTAT, +44" AFF
	TRANSFORMER
	DISCONNECT, NON-FUSED
	DISCONNECT, FUSED
	MOTOR
	277/480V ELECTRICAL PANEL
	120/208V ELECTRICAL PANEL
	ELECTRICAL PANEL, RECESSED (FLUSH)
	ELECTRICAL PANEL, SURFACE
	MISCELLANEOUS PANEL, RECESSED
	MISCELLANEOUS PANEL, SURFACE

WIRING SYMBOLS

	PANEL DESIGNATION & CIRCUIT NUMBER
	DENOTES PART CIRCUIT (SHOWN IN MORE THAN ONE PLACE)
	HOMERUN BACK TO ELECTRICAL PANEL
	CONDUCTOR SIZE (IF OTHER THAN #12)
	PHASE CONDUCTOR
	NEUTRAL CONDUCTOR
	GROUND CONDUCTOR
	CONCEALED CONDUIT
	CONDUIT UNDERGROUND
	CONDUIT, STUBBED & CAPPED
	LIGHTING CIRCUIT - NORMAL POWER
	LIGHTING CIRCUIT - EMERGENCY POWER

NOTATIONS

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

ONE LINE DIAGRAM SYMBOLS

	CIRCUIT BREAKER (TRIP RATING & POLES AS INDICATED ON PLAN)
	MAIN SWITCH (RATING & POLES AS INDICATED ON PLAN)
	FUSE (RATING & CLASS AS INDICATED ON PLAN)
	GENERATOR (RATING AS INDICATED ON PLAN)
	TRANSFORMER (RATING AS INDICATED ON PLAN)
	TRANSFER SWITCH (MANUAL OR AUTOMATIC)
	FUSE (RATING & CLASS AS INDICATED ON PLAN)
	GROUND SYSTEM (SIZE AS INDICATED ON PLAN)
	WATER PIPE GROUND ELECTRODE
	UTILITY METER & METER BASE
	UTILITY METER CURRENT TRANSFORMER

(SCALE AS INDICATED ON PLANS)
(SCALE AS INDICATED ON PLANS)
(SCALE AS INDICATED ON PLANS)

GENERAL CONSTRUCTION NOTES:

CONTRACTOR SHALL BE RESPONSIBLE FOR THOROUGHLY REVIEWING THE PLANS AND SPECIFICATION DOCUMENTS 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.

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR	GND	GROUND	SPD	SURGE PROTECTIVE DEVICE (TVSS)
AFG	ABOVE FINISH GRADE	HID	HIGH INTENSITY DISCHARGE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
'ATS'	AUTOMATIC TRANSFER SWITCH	HP	HORSEPOWER	UG	UNDERGROUND
BOF	BOTTOM OF FIXTURE	JB	JUNCTION BOX	UNO	UNLESS NOTED OTHERWISE
C (C/W)	CONDUIT (CONDUIT & WIRE)	MCB	MAIN CIRCUIT BREAKER	VFD	VARIABLE FREQUENCY DRIVE
CATV	CABLE TELEVISION	MLO	MAIN LUGS ONLY	W	WIRE
CB	CIRCUIT BREAKER	'MTS'	MANUAL TRANSFER SWITCH	WG	WIRE GUARD
CCT	CIRCUIT	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION	WP	WEATHERPROOF
CF/CI	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED	NEC	NATIONAL ELECTRICAL CODE	XFMR	TRANSFORMER
CT	CURRENT TRANSFORMER	NIC	NOT IN CONTRACT	XP	EXPLOSION PROOF
DBL	DOUBLE (AS IN DOUBLE SWITCHED)	NL	NIGHT LIGHT		
(E)	EXISTING	OL	OVERLOAD		
EG	EQUIPMENT GROUND	OF/OI	OWNER FURNISHED / OWNER INSTALLED		
EPO	EMERGENCY POWER OFF	OF/CI	OWNER FURNISHED / CONTRACTOR INSTALLED		
FA	FIRE ALARM	(PC)	PART CIRCUIT		
FACP	FIRE ALARM CONTROL PANEL	RGSC	RIGID STEEL CONDUIT		
GFI	GROUND FAULT INTERRUPTER	SEC	SECONDARY		

FIRE RATED INSTALLATION NOTE:

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

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



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 # 20XX-XX
DATE: 03-31-2016

REVISIONS
07.14.17 COORDINATION
06.22.18 COORDINATION

VANCOUVER AVE PHASE I
MIXED USE BUILDING
3956 VANCOUVER AVE, PORTLAND, OR 97227



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DATE: 03-31-2016

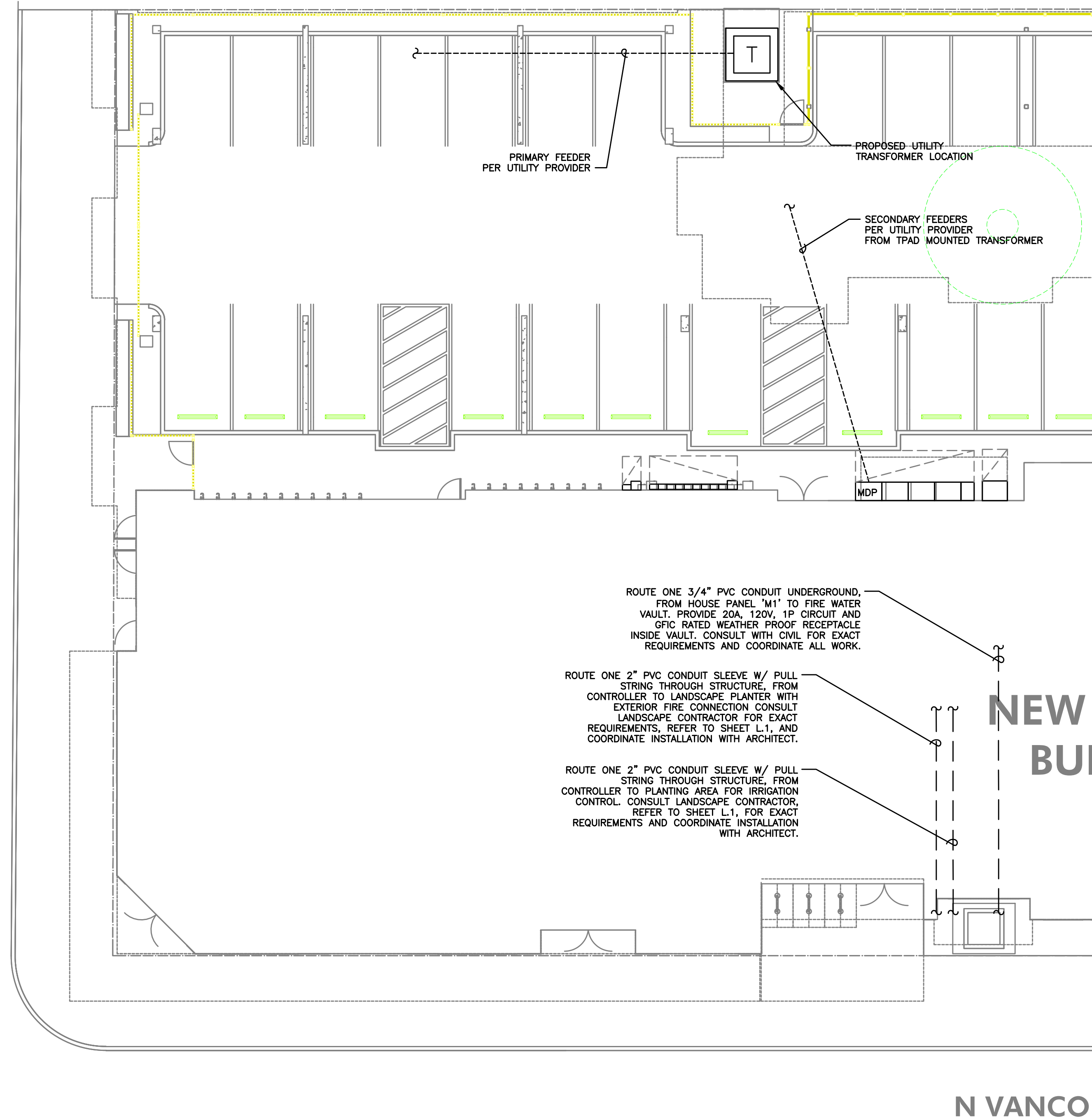
REVISIONS

**VANCOUVER AVE PHASE I
MIXED USE BUILDING**
3956 VANCOUVER AVE, PORTLAND, OR 97227

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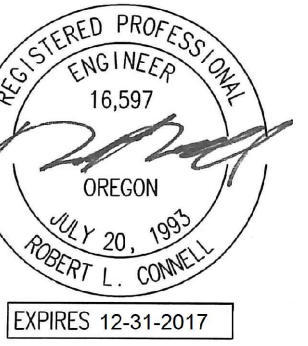
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1 SITE ELECTRICAL PLAN - NORTH
E1.01 SCALE: 1" = 10'-0"

GENERAL NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. REFER TO CIVIL UTILITY PLANS FOR EXACT LOCATION OF TRANSFORMER AND VAULT.
- C. U.G. PRIMARY FEEDER SHALL HAVE MINIMUM 48" BURY.
- D. U.G. SECONDARY FEEDER SHALL HAVE MINIMUM 36" BURY.
- E. REFER TO ONE LINE DIAGRAM SHEET E1.11 FOR FEEDER SCHEDULE.
- F. SECONDARY CONDUIT SWEEPS SHALL BE MIN. 60" RADIUS WITH A MINIMUM OF 7'-0" STRAIGHT CONDUIT RUN BETWEEN SWEEPS.
- G. LOCATION AND INSTALLATION OF PRIMARY AND SECONDARY CONDUITS, TRANSFORMER AND TRANSFORMER VAULT SHALL BE PROVIDED PER PGE RULES AND REQUIREMENTS.
- H. REFER TO CIVIL ENGINEERING PLANS FOR EXITING UTILITY LOCATIONS.

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DATE: 03-31-2016

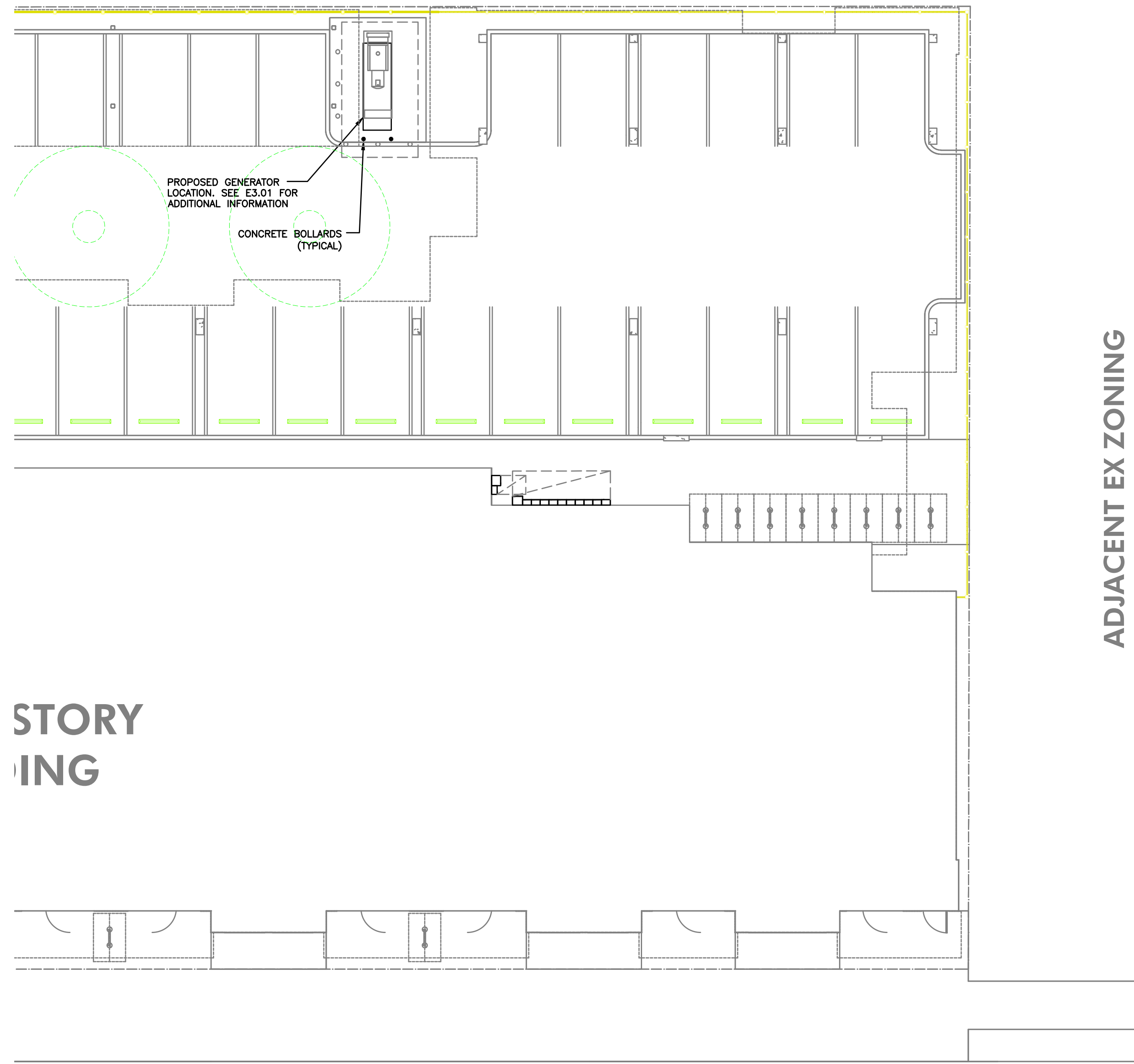
REVISIONS

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SHEET:
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- C. U.G. PRIMARY FEEDER SHALL HAVE MINIMUM 48" BURY.
- D. U.G. SECONDARY FEEDER SHALL HAVE MINIMUM 36" BURY.
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- F. SECONDARY CONDUIT SWEEPS SHALL BE MIN. 60" RADIUS WITH A MINIMUM OF 7'-0" STRAIGHT CONDUIT RUN BETWEEN SWEEPS.
- G. LOCATION AND INSTALLATION OF PRIMARY AND SECONDARY CONDUITS, TRANSFORMER AND TRANSFORMER VAULT SHALL BE PROVIDED PER PGE RULES AND REQUIREMENTS.
- H. REFER TO CIVIL ENGINEERING PLANS FOR EXISTING UTILITY LOCATIONS.

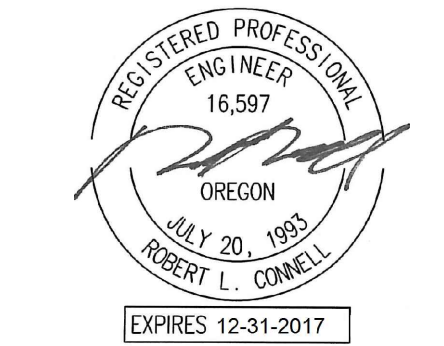


STORY
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R AVE.

2 SITE ELECTRICAL PLAN - SOUTH
E1.01 SCALE: 1" = 10'-0"

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PROJECT # 20XX-XX
DATE: 03-31-2016

REVISIONS

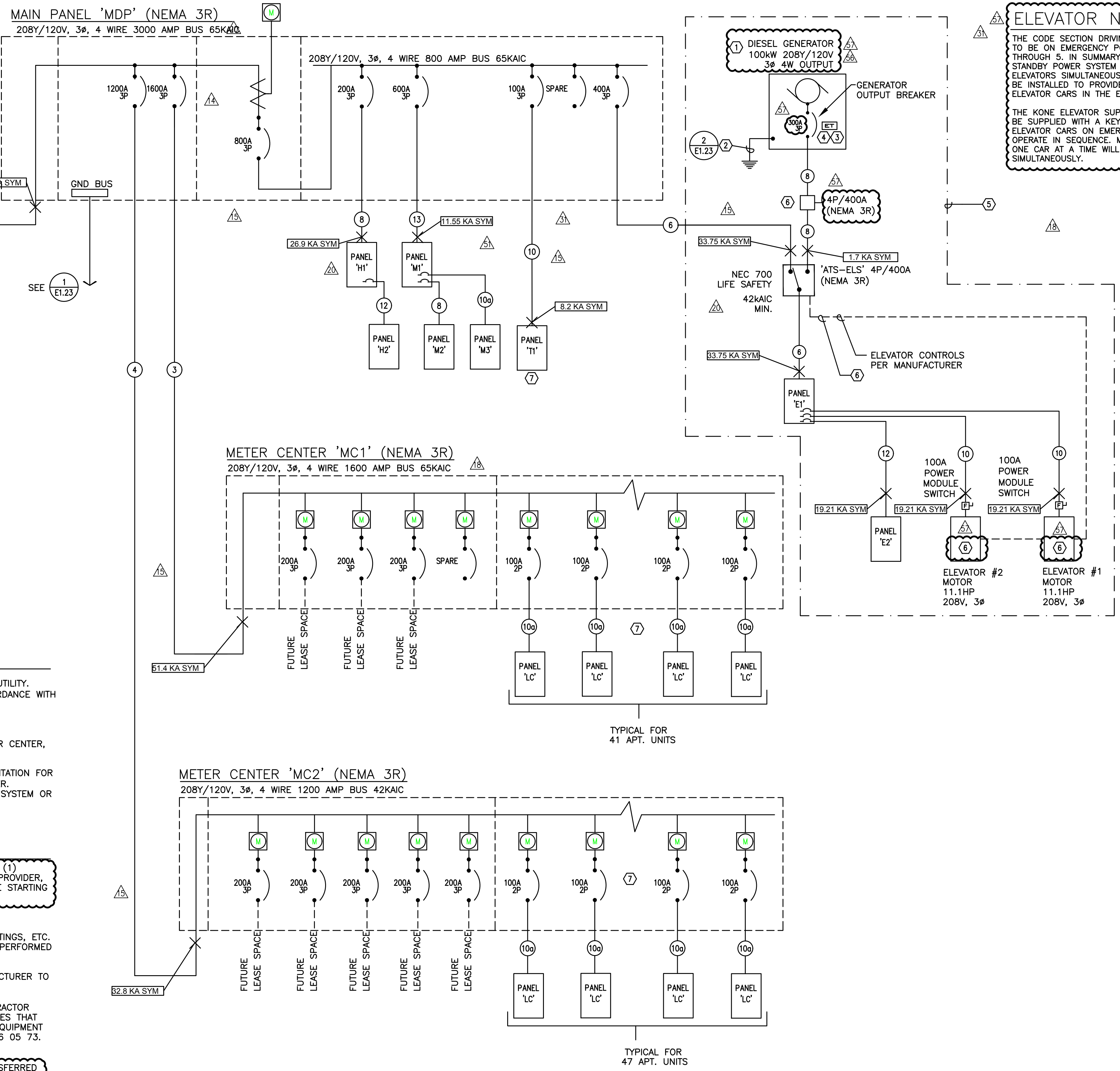
02.02.18	COORDINATION
05.10.19	COORDINATION
07.26.19	COORDINATION
08.30.19	COORDINATION

**VANCOUVER AVE PHASE I
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ELEVATOR NOTE
THE CODE SECTION DRIVING THE REQUIREMENT FOR BOTH ELEVATORS TO BE ON EMERGENCY POWER IS ASME A17.1, SECTION 2.27.2.1 THROUGH 5. IN SUMMARY IT STATES THAT IF THE EMERGENCY OR STANDBY POWER SYSTEM IS NOT CAPABLE OF OPERATING ALL ELEVATORS SIMULTANEOUSLY, THEN A SELECTOR SWITCH WILL NEED TO BE INSTALLED TO PROVIDE AUTOMATIC SELECTION BETWEEN THE TWO ELEVATOR CARS IN THE EVENT OF A POWER OUTAGE.
THE KONE ELEVATOR SUPPLIER HAS VERIFIED THAT THE ELEVATOR CAN BE SUPPLIED WITH A KEY SWITCH TO OPERATE AND SELECT THE ELEVATOR CARS ON EMERGENCY POWER, AND THAT THE CARS WILL OPERATE IN SEQUENCE. MFIA UNDERSTANDS THIS TO MEAN THAT ONLY ONE CAR AT A TIME WILL OPERATE ON EMERGENCY POWER AND NOT SIMULTANEOUSLY.



FEEDER SCHEDULE (COPPER)

NO.	AMPS	CONDUIT	CONDUCTOR
1		* (5) 4"	BY UTILITY CO. & (1) GND
2		* (5) 4"	BY UTILITY CO. & (1) GND
3	1600A	* (4) 4"	ea w/ (4) #600Kcmil & (1) #4/0 GND
4	1200A	* (3) 4"	ea w/ (4) #600Kcmil & (1) #3/0 GND
5	800A	* (2) 4"	ea w/ (4) #600Kcmil & (1) #1/0 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
10a	100A	1 1/2"	(3) #1 & (1) #8 GND
11	125A	1 1/2"	(3) #1 & (1) #6 GND
12	60A	1 1/4"	(4) #4 & (1) #10 GND
13	600A	* (2) 3"	ea w/ (4) #350Kcmil & (1) #1 GND

- * PARALLEL FEEDER
- ONE-LINE GENERAL NOTES:**
- COORDINATE ALL WORK ASSOCIATED WITH ELECTRIC SERVICE WITH LOCAL UTILITY. PROVIDE ALL CONDUIT, GROUNDING, TRANSFORMER VAULT/PAD, ETC., IN ACCORDANCE WITH SERVING UTILITY REQUIREMENTS.
 - COORDINATE METERING REQUIREMENTS WITH UTILITY.
 - FOR LOAD CENTER FEEDER LENGTHS GREATER THAN 145'-0" FROM METER CENTER, INCREASE WIRE SIZE ONE SIZE UP FOR VOLTAGE DROP.
 - 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.
- ONE-LINE NOTES:**
- GENERATOR SIZED BASED ON CONNECTED LIFE SAFETY PANEL LOADS AND (1) ELEVATOR WITH A MOTOR STARTING RATE OF 53 AMPS. PER THE GENERATOR PROVIDER, THE AUTOMATIC TRANSFER SWITCH SHALL FUNCTION IN TWO STEPS TO REDUCE STARTING INRUSH. CONSULT GENERATOR VENDOR FOR ADDITIONAL INFORMATION.
 - PROVIDE GROUND FOR SEPARATELY DERIVED SYSTEM PER NEC.
 - PROVIDE ELECTRONIC TRIP CIRCUIT BREAKER. EXACT BREAKER TYPE, SETTINGS, ETC. TO BE VERIFIED AND AS DETERMINED BY SELECTIVE COORDINATION STUDY AS PERFORMED BY THE ELECTRICAL DISTRIBUTION EQUIPMENT MANUFACTURER.
 - COORDINATE INSTALLATION OF OUTPUT BREAKER WITH GENERATOR MANUFACTURER TO SELECTIVELY COORDINATE WITH POWER STUDY RECOMMENDATIONS.
 - 'LIFE SAFETY' BRANCH TO MEET ALL REQUIREMENTS OF NEC 700. CONTRACTOR SHALL BE AWARE THAT MFIA HAS ATTEMPTED TO INDICATE EQUIPMENT AND SIZES THAT WILL SELECTIVELY COORDINATE, BUT WILL NOT BE KNOWN UNTIL ELECTRICAL EQUIPMENT MANUFACTURER PERFORMS THE REQUIRED POWER STUDIES AS SPECIFIED IN 26 05 73. CHANGES MAY BE NECESSARY AFTER THE BID.
 - ELEVATOR TO BE PROVIDED WITH 30 SECOND DELAYED START WHEN TRANSFERRED TO THE EMERGENCY POWER SYSTEM IN THE EVENT OF NORMAL POWER FAILURE. CONSULT MANUFACTURER'S REPRESENTATIVE FOR ADDITIONAL INFORMATION.
 - ALL TWO BEDROOM APARTMENTS UNITS TO BE PROVIDED WITH A 125A LOAD CENTER, TYPICAL.

1
E1.11 ELECTRICAL ONE-LINE DIAGRAM
208/120v, 3ph, 4w



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PROJECT # 20XX-XX DATE: 03-31-2016

REVISIONS table with columns for date and description, including entries for 09.21.18 COORDINATION and 01.25.19 COORDINATION.

VANCOUVER AVE PHASE I MIXED USE BUILDING 3956 VAN COUVER AVE, PORTLAND, OR 97227

MECHANICAL EQUIPMENT SCHEDULE

Main Mechanical Equipment Schedule table with columns for NO., EQUIPMENT NAME, HP/KW, VOLTS, PH, AMPS, CONDUIT, WIRE, GND, CIRCUIT.

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.

MFA PANEL SCHEDULE table for panel E1, 120/208V, 3 phase, 170 connected load amps.

MFA PANEL SCHEDULE table for panel E2, 120/208V, 3 phase, 45 connected load amps.

MFA PANEL SCHEDULE table for panel H1, 120/208V, 3 phase, 181 connected load amps.

MFA PANEL SCHEDULE table for panel H2, 120/208V, 3 phase, 71 connected load amps.

MFA PANEL SCHEDULE table for panel H3, 120/240V, 3 phase, 104 connected load amps.

MFA PANEL SCHEDULE table for panel T1, 120/208V, 3 phase, 81 connected load amps.

MFA PANEL SCHEDULE table for panel M1, 120/208V, 3 phase, 507 connected load amps.

MFA PANEL SCHEDULE table for panel M2, 120/208V, 3 phase, 161 connected load amps.

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PROJECT # 20XX-XX DATE: 03-31-2016

Table with 2 columns: REVISIONS, Description. Includes entries for 04.14.17 COORDINATION, 06.30.17 COORDINATION, 07.14.17 COORDINATION, and 06.22.18 COORDINATION.

VANCOUVER AVE PHASE I MIXED USE BUILDING 3956 VANCOUVER AVE, PORTLAND, OR 97227

SHEET: E1.14

MFI Consulting Engineers 2007 S.E. Ash St. Portland, OR 97214 PHN: (503) 234-0548 FAX: (503) 234-0877 www.mfi-inc.com CONTACT: DENISE TAYLOR

DWELLING UNIT LOAD CALCULATION Project: Vancouver Mixed Use Apartments Unit Type: C Studio Area: 538 square feet. Includes load calculation table and notes.

DWELLING UNIT LOAD CALCULATION Project: Vancouver Mixed Use Apartments Unit Type: B 1 bed/1 bath Area: 696 square feet. Includes load calculation table and notes.

DWELLING UNIT LOAD CALCULATION Project: Vancouver Mixed Use Apartments Unit Type: A 2 bed/2 bath Area: 905 square feet. Includes load calculation table and notes.

DWELLING UNIT LOAD CALCULATION Project: Vancouver Mixed Use Apartments Unit Type: F 1Bed/1Bath Area: 662 square feet. Includes load calculation table and notes.

DWELLING UNIT LOAD CALCULATION Project: Vancouver Mixed Use Apartments Unit Type: E 1 bed/1 bath Area: 603 square feet. Includes load calculation table and notes.

DWELLING UNIT LOAD CALCULATION Project: Vancouver Mixed Use Apartments Unit Type: D Studio Area: 495 square feet. Includes load calculation table and notes.

DWELLING UNIT LOAD CALCULATION Project: Vancouver Mixed Use Apartments Unit Type: I (ADA) Studio Area: 523 square feet. Includes load calculation table and notes.

DWELLING UNIT LOAD CALCULATION Project: Vancouver Mixed Use Apartments Unit Type: H Studio Area: 551 square feet. Includes load calculation table and notes.

DWELLING UNIT LOAD CALCULATION Project: Vancouver Mixed Use Apartments Unit Type: G Studio Area: 538 square feet. Includes load calculation table and notes.

MFA CIRCUIT DIRECTORY 17-May-18. Table with columns: Loadcenter Name, voltage, phase, bus & main, location, service. Includes notes on breaker and wire sizing.

MFA CIRCUIT DIRECTORY 17-May-18. Table with columns: Loadcenter Name, voltage, phase, bus & main, location, service. Includes notes on breaker and wire sizing.

MFA CIRCUIT DIRECTORY 17-May-18. Table with columns: Loadcenter Name, voltage, phase, bus & main, location, service. Includes notes on breaker and wire sizing.



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PROJECT # 20XX-XX DATE: 03-31-2016

Table with 2 columns: REVISIONS, COORDINATION. Row 1: 06.22.18 COORDINATION.

VANCOUVER AVE PHASE I MIXED USE BUILDING 3956 VANCOUVER AVE, PORTLAND, OR 97227

SHEET: E1.15

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DWELLING UNIT LOAD CALCULATION. Project: Vancouver Mixed Use Apartments. Unit Type: J 2 bed/2 bath. Area: 986 square feet. Minimum Size Feeder (NEC 220.40): General lighting load at 3 VA / SF 2,950 VA, Small Appliance load (2 ckt at 1500VA each) 3,000 VA, Laundry Load (1 ckt at 1500VA) 1,500 VA, Electric Range 8,000 VA, Other Cooking Appliance Load (Microwave Oven) 1,580 VA, Dishwasher Load 744 VA, Electric Dryer Load 5,400 VA, Electric Water Heater Load 0 VA, Disposal load 864 VA, Other motor loads 0 VA. Total "General Loads" 24,046 VA. First 10 kVA of "general loads" at 100% 10,000 VA, Remainder of "general loads" at 40% 5,818 VA. Net "general load" 15,818 VA. Largest of: 6,500 VA of electric space heating (less than 4) at 65%, 0 VA of electric space heating (4 or more) at 40%, 0 VA of air conditioning/cooling/heat pumps at 100%. TOTAL LOAD 19,843 VA. For 120/208-volt, 3-wire, single-phase service or feeder, 19,843 VA / 208 volts = 95 Amps. Therefore, this dwelling unit shall be permitted to be served by a 100 amp service.

DWELLING UNIT LOAD CALCULATION. Project: Vancouver Mixed Use Apartments. Unit Type: K 2 bed/2 bath. Area: 1,013 square feet. Minimum Size Feeder (NEC 220.40): General lighting load at 3 VA / SF 3,039 VA, Small Appliance load (2 ckt at 1500VA each) 3,000 VA, Laundry Load (1 ckt at 1500VA) 1,500 VA, Electric Range 8,000 VA, Other Cooking Appliance Load (Microwave Oven) 1,580 VA, Dishwasher Load 744 VA, Electric Dryer Load 5,400 VA, Electric Water Heater Load 0 VA, Disposal load 864 VA, Other motor loads 0 VA. Total "General Loads" 24,127 VA. First 10 kVA of "general loads" at 100% 10,000 VA, Remainder of "general loads" at 40% 5,651 VA. Net "general load" 15,651 VA. Largest of: 6,500 VA of electric space heating (less than 4) at 65%, 0 VA of electric space heating (4 or more) at 40%, 0 VA of air conditioning/cooling/heat pumps at 100%. TOTAL LOAD 19,876 VA. For 120/208-volt, 3-wire, single-phase service or feeder, 19,876 VA / 208 volts = 96 Amps. Therefore, this dwelling unit shall be permitted to be served by a 100 amp service.

DWELLING UNIT LOAD CALCULATION. Project: Vancouver Mixed Use Apartments. Unit Type: L 1 bed/1 bath. Area: 558 square feet. Minimum Size Feeder (NEC 220.40): General lighting load at 3 VA / SF 1,674 VA, Small Appliance load (2 ckt at 1500VA each) 3,000 VA, Laundry Load (1 ckt at 1500VA) 1,500 VA, Electric Range 8,000 VA, Other Cooking Appliance Load (Microwave Oven) 1,580 VA, Dishwasher Load 744 VA, Electric Dryer Load 5,400 VA, Electric Water Heater Load 0 VA, Disposal load 864 VA, Other motor loads 0 VA. Total "General Loads" 22,762 VA. First 10 kVA of "general loads" at 100% 10,000 VA, Remainder of "general loads" at 40% 5,105 VA. Net "general load" 15,105 VA. Largest of: 5,000 VA of electric space heating (less than 4) at 65%, 3,250 VA of electric space heating (4 or more) at 40%, 0 VA of air conditioning/cooling/heat pumps at 100%. TOTAL LOAD 18,355 VA. For 120/208-volt, 3-wire, single-phase service or feeder, 18,355 VA / 208 volts = 88 Amps. Therefore, this dwelling unit shall be permitted to be served by a 100 amp service.

DWELLING UNIT LOAD CALCULATION. Project: Vancouver Mixed Use Apartments. Unit Type: M 2 bed/1 bath. Area: 809 square feet. Minimum Size Feeder (NEC 220.40): General lighting load at 3 VA / SF 2,427 VA, Small Appliance load (2 ckt at 1500VA each) 3,000 VA, Laundry Load (1 ckt at 1500VA) 1,500 VA, Electric Range 8,000 VA, Other Cooking Appliance Load (Microwave Oven) 1,580 VA, Dishwasher Load 744 VA, Electric Dryer Load 5,400 VA, Electric Water Heater Load 0 VA, Disposal load 864 VA, Other motor loads 0 VA. Total "General Loads" 23,515 VA. First 10 kVA of "general loads" at 100% 10,000 VA, Remainder of "general loads" at 40% 5,406 VA. Net "general load" 15,406 VA. Largest of: 6,500 VA of electric space heating (less than 4) at 65%, 4,225 VA of electric space heating (4 or more) at 40%, 0 VA of air conditioning/cooling/heat pumps at 100%. TOTAL LOAD 19,631 VA. For 120/208-volt, 3-wire, single-phase service or feeder, 19,631 VA / 208 volts = 94 Amps. Therefore, this dwelling unit shall be permitted to be served by a 100 amp service.

DWELLING UNIT LOAD CALCULATION. Project: Vancouver Mixed Use Apartments. Unit Type: N 2 bed/1 bath. Area: 693 square feet. Minimum Size Feeder (NEC 220.40): General lighting load at 3 VA / SF 2,079 VA, Small Appliance load (2 ckt at 1500VA each) 3,000 VA, Laundry Load (1 ckt at 1500VA) 1,500 VA, Electric Range 8,000 VA, Other Cooking Appliance Load (Microwave Oven) 1,580 VA, Dishwasher Load 744 VA, Electric Dryer Load 5,400 VA, Electric Water Heater Load 0 VA, Disposal load 864 VA, Other motor loads 0 VA. Total "General Loads" 23,167 VA. First 10 kVA of "general loads" at 100% 10,000 VA, Remainder of "general loads" at 40% 5,267 VA. Net "general load" 15,267 VA. Largest of: 6,500 VA of electric space heating (less than 4) at 65%, 4,225 VA of electric space heating (4 or more) at 40%, 0 VA of air conditioning/cooling/heat pumps at 100%. TOTAL LOAD 19,492 VA. For 120/208-volt, 3-wire, single-phase service or feeder, 19,492 VA / 208 volts = 94 Amps. Therefore, this dwelling unit shall be permitted to be served by a 100 amp service.

DWELLING UNIT LOAD CALCULATION. Project: Vancouver Mixed Use Apartments. Unit Type: O (ADA) 1Bed/1Bath. Area: 635 square feet. Minimum Size Feeder (NEC 220.40): General lighting load at 3 VA / SF 1,905 VA, Small Appliance load (2 ckt at 1500VA each) 3,000 VA, Laundry Load (1 ckt at 1500VA) 1,500 VA, Electric Range 8,000 VA, Other Cooking Appliance Load (Microwave Oven) 1,580 VA, Dishwasher Load 744 VA, Electric Dryer Load 5,400 VA, Electric Water Heater Load 0 VA, Disposal load 864 VA, Other motor loads 0 VA. Total "General Loads" 22,993 VA. First 10 kVA of "general loads" at 100% 10,000 VA, Remainder of "general loads" at 40% 5,197 VA. Net "general load" 15,197 VA. Largest of: 6,500 VA of electric space heating (less than 4) at 65%, 3,250 VA of electric space heating (4 or more) at 40%, 0 VA of air conditioning/cooling/heat pumps at 100%. TOTAL LOAD 18,447 VA. For 120/208-volt, 3-wire, single-phase service or feeder, 18,447 VA / 208 volts = 89 Amps. Therefore, this dwelling unit shall be permitted to be served by a 100 amp service.

DWELLING UNIT LOAD CALCULATION. Project: Vancouver Mixed Use Apartments. Unit Type: P 2Bed/2Bath. Area: 1,028 square feet. Minimum Size Feeder (NEC 220.40): General lighting load at 3 VA / SF 3,084 VA, Small Appliance load (2 ckt at 1500VA each) 3,000 VA, Laundry Load (1 ckt at 1500VA) 1,500 VA, Electric Range 8,000 VA, Other Cooking Appliance Load (Microwave Oven) 1,580 VA, Dishwasher Load 744 VA, Electric Dryer Load 5,400 VA, Electric Water Heater Load 0 VA, Disposal load 864 VA, Other motor loads 0 VA. Total "General Loads" 24,172 VA. First 10 kVA of "general loads" at 100% 10,000 VA, Remainder of "general loads" at 40% 5,669 VA. Net "general load" 15,669 VA. Largest of: 6,500 VA of electric space heating (less than 4) at 65%, 4,225 VA of electric space heating (4 or more) at 40%, 0 VA of air conditioning/cooling/heat pumps at 100%. TOTAL LOAD 19,894 VA. For 120/208-volt, 3-wire, single-phase service or feeder, 19,894 VA / 208 volts = 96 Amps. Therefore, this dwelling unit shall be permitted to be served by a 100 amp service.

DWELLING UNIT LOAD CALCULATION. Project: Vancouver Mixed Use Apartments. Unit Type: Q 2 bed/1 bath. Area: 689 square feet. Minimum Size Feeder (NEC 220.40): General lighting load at 3 VA / SF 2,067 VA, Small Appliance load (2 ckt at 1500VA each) 3,000 VA, Laundry Load (1 ckt at 1500VA) 1,500 VA, Electric Range 8,000 VA, Other Cooking Appliance Load (Microwave Oven) 1,580 VA, Dishwasher Load 744 VA, Electric Dryer Load 5,400 VA, Electric Water Heater Load 0 VA, Disposal load 864 VA, Other motor loads 0 VA. Total "General Loads" 23,155 VA. First 10 kVA of "general loads" at 100% 10,000 VA, Remainder of "general loads" at 40% 5,262 VA. Net "general load" 15,262 VA. Largest of: 6,500 VA of electric space heating (less than 4) at 65%, 4,225 VA of electric space heating (4 or more) at 40%, 0 VA of air conditioning/cooling/heat pumps at 100%. TOTAL LOAD 19,487 VA. For 120/208-volt, 3-wire, single-phase service or feeder, 19,487 VA / 208 volts = 94 Amps. Therefore, this dwelling unit shall be permitted to be served by a 100 amp service.

DWELLING UNIT LOAD CALCULATION. Project: Vancouver Mixed Use Apartments. Unit Type: R 2 bed/2 bath. Area: 888 square feet. Minimum Size Feeder (NEC 220.40): General lighting load at 3 VA / SF 2,664 VA, Small Appliance load (2 ckt at 1500VA each) 3,000 VA, Laundry Load (1 ckt at 1500VA) 1,500 VA, Electric Range 8,000 VA, Other Cooking Appliance Load (Microwave Oven) 1,580 VA, Dishwasher Load 744 VA, Electric Dryer Load 5,400 VA, Electric Water Heater Load 0 VA, Disposal load 864 VA, Other motor loads 0 VA. Total "General Loads" 23,752 VA. First 10 kVA of "general loads" at 100% 10,000 VA, Remainder of "general loads" at 40% 5,501 VA. Net "general load" 15,501 VA. Largest of: 6,500 VA of electric space heating (less than 4) at 65%, 4,225 VA of electric space heating (4 or more) at 40%, 0 VA of air conditioning/cooling/heat pumps at 100%. TOTAL LOAD 19,726 VA. For 120/208-volt, 3-wire, single-phase service or feeder, 19,726 VA / 208 volts = 95 Amps. Therefore, this dwelling unit shall be permitted to be served by a 100 amp service.

DWELLING UNIT LOAD CALCULATION. Project: Vancouver Mixed Use Apartments. Unit Type: S 1Bed/1Bath. Area: 515 square feet. Minimum Size Feeder (NEC 220.40): General lighting load at 3 VA / SF 1,545 VA, Small Appliance load (2 ckt at 1500VA each) 3,000 VA, Laundry Load (1 ckt at 1500VA) 1,500 VA, Electric Range 8,000 VA, Other Cooking Appliance Load (Microwave Oven) 1,580 VA, Dishwasher Load 744 VA, Electric Dryer Load 5,400 VA, Electric Water Heater Load 0 VA, Disposal load 864 VA, Other motor loads 0 VA. Total "General Loads" 22,833 VA. First 10 kVA of "general loads" at 100% 10,000 VA, Remainder of "general loads" at 40% 5,053 VA. Net "general load" 15,053 VA. Largest of: 5,000 VA of electric space heating (less than 4) at 65%, 3,250 VA of electric space heating (4 or more) at 40%, 0 VA of air conditioning/cooling/heat pumps at 100%. TOTAL LOAD 18,303 VA. For 120/208-volt, 3-wire, single-phase service or feeder, 18,303 VA / 208 volts = 88 Amps. Therefore, this dwelling unit shall be permitted to be served by a 100 amp service.



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PROJECT # 20XX-XX
DATE: 03-31-2016

REVISIONS	
06.30.17	COORDINATION
07.14.17	COORDINATION
02.02.18	COORDINATION
03.30.18	COORDINATION

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LIGHTING FIXTURE LIST

TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
'A'	(2) F25T8 54 W	TEXAS FLUORESCENTS	C SERIES	TYPE :4' GEN. PURPOSE STRIP MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :NA VOLTAGE :120V BALLAST :ELECTRONIC	RETAIL SPACE
'A1' 'A1E'	LED 3500K 2000 LM/80CRI 24W	LITHONIA (OR APPROVED EQUAL)	ZL2N 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
'A2'	LED 3500K 1800 LM/80CRI 24W	LITHONIA (OR APPROVED EQUAL)	XWLED SERIES	TYPE :4' ENCLOSED INDUSTRIAL MOUNTING :SURFACE HOUSING :POLYCARBONATE LENS/REFL :CLEAR POLYCARBONATE VOLTAGE :MVOLT BALLAST :LED DRIVER	ELEVATOR PIT
'B1' (2)	LED 3500K 2152 LM 18.7W	LITHONIA (OR APPROVED EQUAL)	WL4 20LP835 SERIES	TYPE :4' WRAP AROUND MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	STAIRWELLS, EQUIP RMS
LF01 (5)	LED 3500K 775LM/80CRI 9W	USAI LIGHTING (OR APPROVED EQUAL)	BEVELED 2.1 3321 SERIES	TYPE :4" DIA. DOWNLIGHT MOUNTING :RECESSED (TRIMLESS) HOUSING :STEEL LENS/REFL :ACRYLIC (90° REFLECTOR) VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT PROVIDE APPROPRIATE HOUSING FOR IC RATED CEILING RESTROOMS, CORRIDORS, LOBBY, OFFICE
LF02 (3)	LED 3000K 120LM 3W/HEAD	BRUCK LIGHTING (OR APPROVED EQUAL)	LEDRA2 SPOT 135711 SERIES	TYPE :ADJ. TRACK HEAD MOUNTING :TRACK HOUSING :ALUMINUM LENS/REFL :GIMBLE VOLTAGE :MVOLT BALLAST :LED DRIVER	MEDIUM FLOOD DISTRIBUTION. FINISH PER ARCHITECT FIELD AIMED LOBBY, CORRIDORS
LF03 (5)	LED 3500K 300LM 5W	JUNO LIGHTING (OR APPROVED EQUAL)	MG1162RD03LM35K SERIES	TYPE :3" DIA. ADJ. DOWNLIGHT MOUNTING :RECESSED HOUSING :ALUMINUM LENS/REFL :GIMBLE VOLTAGE :MVOLT BALLAST :LED DRIVER	NARROW FLOOD DISTRIBUTION. FINISH PER ARCHITECT FIXTURE SHALL BE IC RATED WHERE REQUIRED. FIELD AIMED LOBBY, CORRIDORS
LF04 (3) (6)	LED 2700K 560LM/80CRI 7W	ZANEEN LIGHTING (OR APPROVED EQUAL)	BO-LA D9-6057 SERIES	TYPE :PENDANT TRACK HEAD MOUNTING :TRACK HOUSING :STEEL LENS/REFL :GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT CONSULT DECORATOR TO VERIFY MOUNTING HEIGHT LOBBY, COMMUNITY ROOM
LF05 (5)	LED 3500K 625LM/80CRI 9W	USAI LIGHTING (OR APPROVED EQUAL)	BEVELED 2.1 3021 SERIES	TYPE :4" DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :DEEP REGRESS VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT PROVIDE APPROPRIATE HOUSING FOR IC RATED CEILING CORRIDORS, LOBBY
LF06 (6)	LED 2700K 845LM/80CRI 11W	ZANEEN LIGHTING (OR APPROVED EQUAL)	BO-LA D9-2209 SERIES	TYPE :DIRECTIONAL SPOT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT FIELD AIM PER DECORATOR CORRIDORS, LOBBY
LF07 (3) (6)	LED 2700K 845LM/80CRI 11W	ZANEEN LIGHTING (OR APPROVED EQUAL)	BO-LA D9-6040 SERIES	TYPE :ADJ. TRACK HEAD MOUNTING :TRACK HOUSING :STEEL LENS/REFL :GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT FIELD AIM PER DECORATOR CORRIDORS, LOBBY
LF08 (3)	LED 3500K 340LM/FT 2W/FT	VOLT LIGHTING GROUP CORE LIGHTING GROUP (OR APPROVED EQUAL)	MX35K-24V SERIES APL-90 CHANNEL	TYPE :LED TAPE LIGHT MOUNTING :SELF-ADHESIVE HOUSING :ALUMINUM CHANNEL LENS/REFL :CLEAR LENS VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	CORRIDORS, LOBBY
LF10	LED 3000K 750LM 12W	CORE LIGHTING (OR APPROVED EQUAL)	RLD-410C SERIES	TYPE :4" DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :ALUMINUM LENS/REFL :WHITE BAFFLE VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT FIXTURE SHALL BE IC RATED WHERE REQUIRED. RESTROOMS, FITNESS RM
LF11 (3)	LED 3500K 350LM/FT 4.5W/FT	PRUDENTIAL LIGHTING (OR APPROVED EQUAL)	BIO2 LED35L0M4WLD1R SERIES	TYPE :LINEAR WALL WASHER MOUNTING :SURFACE HOUSING :ALUMINUM LENS/REFL :FROSTED ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT VERIFY MOUNTING HEIGHT & ANGLE OF DISTRIBUTION FITNESS ROOM
LF12 (3)	LED 3500K 555LM/FT 4W/FT	CORE LIGHTING (OR APPROVED EQUAL)	CSL-320 L1 SERIES	TYPE :LINEAR DIRECT/INDIRECT MOUNTING :SUSPENDED (CABLE HUNG) HOUSING :ALUMINUM LENS/REFL :FROSTED ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT VERIFY MOUNTING HEIGHT BIKE STORAGE

LIGHTING FIXTURE LIST

TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
LF13 (1) (3)	LED 3500K 340LM/FT 2W/FT	VOLT LIGHTING GROUP CORE LIGHTING GROUP (OR APPROVED EQUAL)	MX35K-24V SERIES APL-90 CHANNEL	TYPE :LED TAPE LIGHT MOUNTING :SELF-ADHESIVE HOUSING :ALUMINUM CHANNEL LENS/REFL :CLEAR LENS VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	CONSULT ARCHITECT FOR EXACT INSTALLATION LOCATIONS CORRIDORS, LOBBY
LF14	LED 3500K 1220LM/HEAD 14W/HEAD	ZANEEN LIGHTING (OR APPROVED EQUAL)	2LOOK4LIGHT SYSTEM L38477 SERIES	TYPE :CHANNEL/SPOT LIGHT MOUNTING :RECESSED HOUSING :ALUMINUM LENS/REFL :GUMMETAL FINISH VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT CONSULT LIGHTING PLANS FOR CHANNEL LENGTH AND QUANTITY OF HEADS. COMMUNITY ROOM
LF15 (3)	LED 3500K 350LM/FT 4.5W/FT	PRUDENTIAL LIGHTING (OR APPROVED EQUAL)	BIO2 LED35L0M4W1G SERIES	TYPE :LINEAR WALL GRAZER MOUNTING :SURFACE (WALL) HOUSING :ALUMINUM LENS/REFL :FROSTED ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT VERIFY MOUNTING HEIGHT ROOF TERRACE RESTRM
LF16	LED 3000K 2W	ELCO LIGHTING (OR APPROVED EQUAL)	ELST20W SERIES	TYPE :STEP LIGHT MOUNTING :RECESSED (WALL) HOUSING :STEEL LENS/REFL :FROSTED ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT VERIFY MOUNTING HEIGHT COMMUNITY ROOM
LF17 (7)	LED A19 3000K 18W	TOM DIXON LIGHTING (OR APPROVED EQUAL)	"FELT" SERIES	TYPE :PENDANT CLUSTER MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :PRESSED FELT SHADE VOLTAGE :MVOLT BALLAST :INTEGRAL LED DRIVER	CONSULT DECORATOR FOR QUANTITY AND MOUNTING HEIGH FOR EACH FIXTURE COMMUNITY ROOM
LF18 (3)	LED 3500K 286LM 3.8W	JUNO LIGHTING (OR APPROVED EQUAL)	USTR1 SERIES	TYPE :UNDER CABINET PUCK MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :NA VOLTAGE :12VAC BALLAST :INTEGRAL LED DRIVER	CONSULT DECORATOR FOR FINISH CONTRACTOR TO PROVIDE ALL COMPONENTS FOR INSTALL VERIFY SWITCHING WITH INTERIOR DECORATOR. COMMUNITY ROOM
LF19	LED 3500K 775LM/80CRI 9W	USAI LIGHTING (OR APPROVED EQUAL)	BEVELED 2.1 3321 SERIES	TYPE :4" DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :TRIMLESS VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT PROVIDE APPROPRIATE HOUSING FOR IC RATED CEILING TERRACE RESTROOM
'X1' 'X2'	LED (GREEN LETTERS) (1.5W)	LITHONIA DMF LIGHTING (OR APPROVED EQUAL)	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	TYPE 'X2' SIMILAR TO 'X1' EXCEPT WITH DUAL FACE AND/OR DIRCTIONAL ARROWS
'X3'	LED (GREEN LETTERS) (3.5W)	LITHONIA (OR APPROVED EQUAL)	WLTE EL SERIES	TYPE :EXIT SIGN MOUNTING :UNIVERSAL HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	UL LISTED WET LOCATION
'SA'	LED 3000K 1488LM 31W	BEGA (OR APPROVED EQUAL)	6057LED SERIES	TYPE :7.5" DIA. CYLINDER MOUNTING :SURFACE HOUSING :ALUMINUM LENS/REFL :PARTIALLY FROSTED GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT UL LISTED WET LOCATION BUILDING EXTERIOR, CANOPY
'SA1' (LF-02)	LED 3000K 750LM 12W	CORE LIGHTING (OR APPROVED EQUAL)	RLD-420C SERIES	TYPE :4" SQ. DOWNLIGHT MOUNTING :RECESSED HOUSING :ALUMINUM LENS/REFL :PLASTIC VOLTAGE :MVOLT BALLAST :LED DRIVER	FINISH PER ARCHITECT UL LISTED WET LOCATION COVERED TERRACE
'SB'	LED 4000k 4245 LUMENS 56 W	LSI LIGHTING (OR APPROVED EQUAL)	CROSSOVER (XPG3) SERIES	TYPE :GARAGE LIGHT MOUNTING :SURFACE HOUSING :ALUMINUM LENS/REFL :TEMPERED GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER	PARKING GARAGE
'SD'	LED 2000K 2739 LUMEN 50 W	BEGA LIGHTING LSI INDUSTRIES (OR APPROVED EQUAL)	2260L SERIES SWS SERIES	TYPE :WALL SCONCE MOUNTING :SURFACE (+8"-0" AFF MIN) HOUSING :STEEL LENS/REFL :TEMEPERED MATT GLASS VOLTAGE :120V BALLAST :LED DRIVER	FINISH PER ARCHITECT 1ST FLOOR COURTYARD

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. VERIFY ALL FIXTURE FINISHES WITH ARCHITECT PRIOR TO BID.
- D. VERIFY ALL FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO BID.
- E. VERIFY ALL FIXTURE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH IN.
- F. ALL INTERIOR LIGHTING SHALL BE 3500 KELVIN UNLESS OTHERWISE NOTED. THE EXCEPTION TO THIS WILL BE THE LIGHT FIXTURES IN THE APARTMENT UNITS, FIXTURES IN MAINTENANCE AREAS AND TEMPORARY LIGHTING.
- G. ALL PRODUCT SUBSTITUTIONS AND VALUE ENGINEERING SHALL BE SUBMITTED DURING BID PHASE, SHALL MEET DESIGN INTENT AND IS SUBJECT TO OWNER APPROVAL.
- H. NOT USED.
- 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.

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.

FIXTURE TO BE FIELD AIMED SUCH THAT THE LIGHT OUTPUT IS DIRECTED TOWARD THE CENTER OF THE CORRIDOR.

FIXTURE(S) SHALL BE PROVIDED WITH DIMMING CAPABILITY.
2. STAIRWELL AND CORRIDOR FIXTURES TO BE EQUIPPED WITH FACTORY INSTALLED OCCUPANCY SENSORS FOR LIGHT REDUCTION DURING PERIODS OF NO ACTIVITY.
3. CONTRACTOR SHALL PROVIDE ALL NECESSARY COMPONENTS FOR COMPLETE INSTALL PER INTERIOR DECORATOR'S DIRECTION.
4. PROVIDE ALTERNATE PRICING FOR SIMILAR TYPE FIXTURE WITH LED LAMPING. FIXTURE SHALL BE 3500K, 2400 LUMEN (MINIMUM) AND 100 WATTS (MAX.).
5. IF NECESSARY, CONTRACTOR SHALL PROVIDE IC RATED BOXES FOR FIXTURES NOT MEETING INSULATED CEILING REQUIREMENTS.
6. CONSULT PRODUCT VENDOR AND PROVIDE WITH 3500K LAMPS IF AVAILABLE.
7. FIXTURE RATED FOR 60W MAX. INCANDESCENT LAMP. PROVIDE WITH LED REPLACEMENT LAMP OF COMPARABLE LUMEN OUTPUT.



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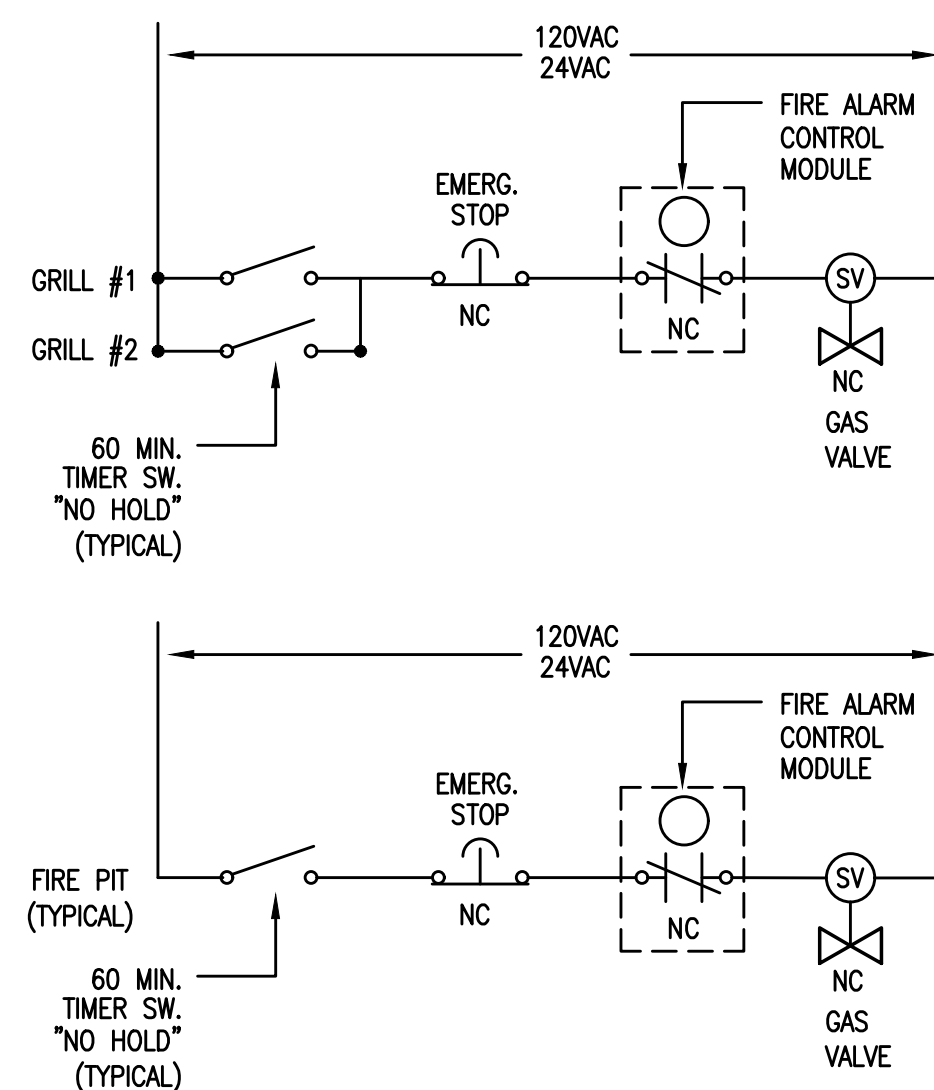
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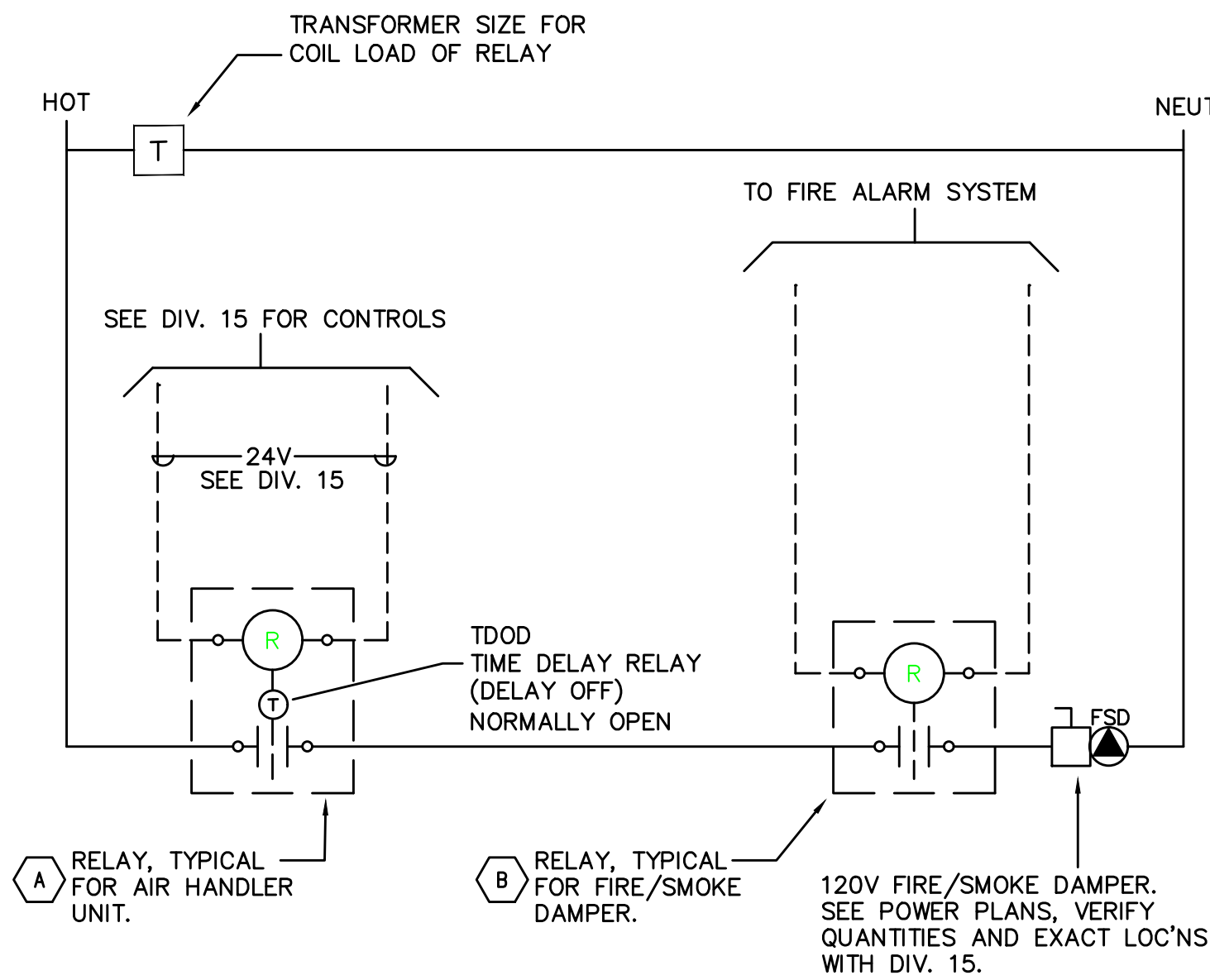
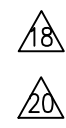
LIGHTING FIXTURE LIST - TYPICAL LIVING UNITS					
TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
'UA' ② ③	LED 786 LUMEN 3500K (10W)	HALO (OR APPROVED OTHER)	SMD4R SERIES	TYPE :4" DIA. DOWNLIGHT MOUNTING :SURFACE (J-BOX) HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT. UNIT KITCHEN, HALL, CLOSET, LIVING
'UB'	LED 750 LUMEN 3500K (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, BEDROOM
'UC'	LED 1000 LUMEN 3000K 15W	DMF LIGHTING (OR APPROVED EQUAL)	DCC2-LARGE SERIES	TYPE :4.5" DIA. PENDANT MOUNTING :SURFACE (STEM HUNG) HOUSING :ALUMINUM LENS/REFL :N/A VOLTAGE :120V BALLAST :LED DRIVER (DIMMING)	VERIFY MOUNTING HEIGHT WITH INTERIOR DESIGNER. LOFT UNIT ONLY
'UD'	LED 3000K 3200 LUMENS 50W	LEDALITE (OR APPROVED EQUAL)	24R5LCE SERIES	TYPE :4" LINEAR LED LIGHT MOUNTING :SUSPENDED (CABLE HUNG) HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	VERIFY MOUNTING HEIGHT WITH INTERIOR DESIGNER. LOFT UNIT ONLY
'UF' ④	LED 3000K (5W)	MAJESTIC MIRROR & FRAME (OR APPROVED EQUAL)	ARGYLE SMALL-V SERIES	TYPE :23.5"x37.5" BACK-LIT MIRROR MOUNTING :SURFACE HOUSING :PER MFR LENS/REFL :PER MFR VOLTAGE :120V BALLAST :LED DRIVER	MOUNTING HEIGHT AND FINISH PER ARCHITECT. VERIFY WIRING METHOD PRIOR TO ROUGH IN. UNIT BATHROOM
'UH' ①	N/A 500 W	KING (OR APPROVED EQUAL)	WHFC1210	TYPE :CEILING HEATER MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :NA VOLTAGE :120V BALLAST :NA	UNIT BATHROOM

KEYED LIGHTING NOTES:

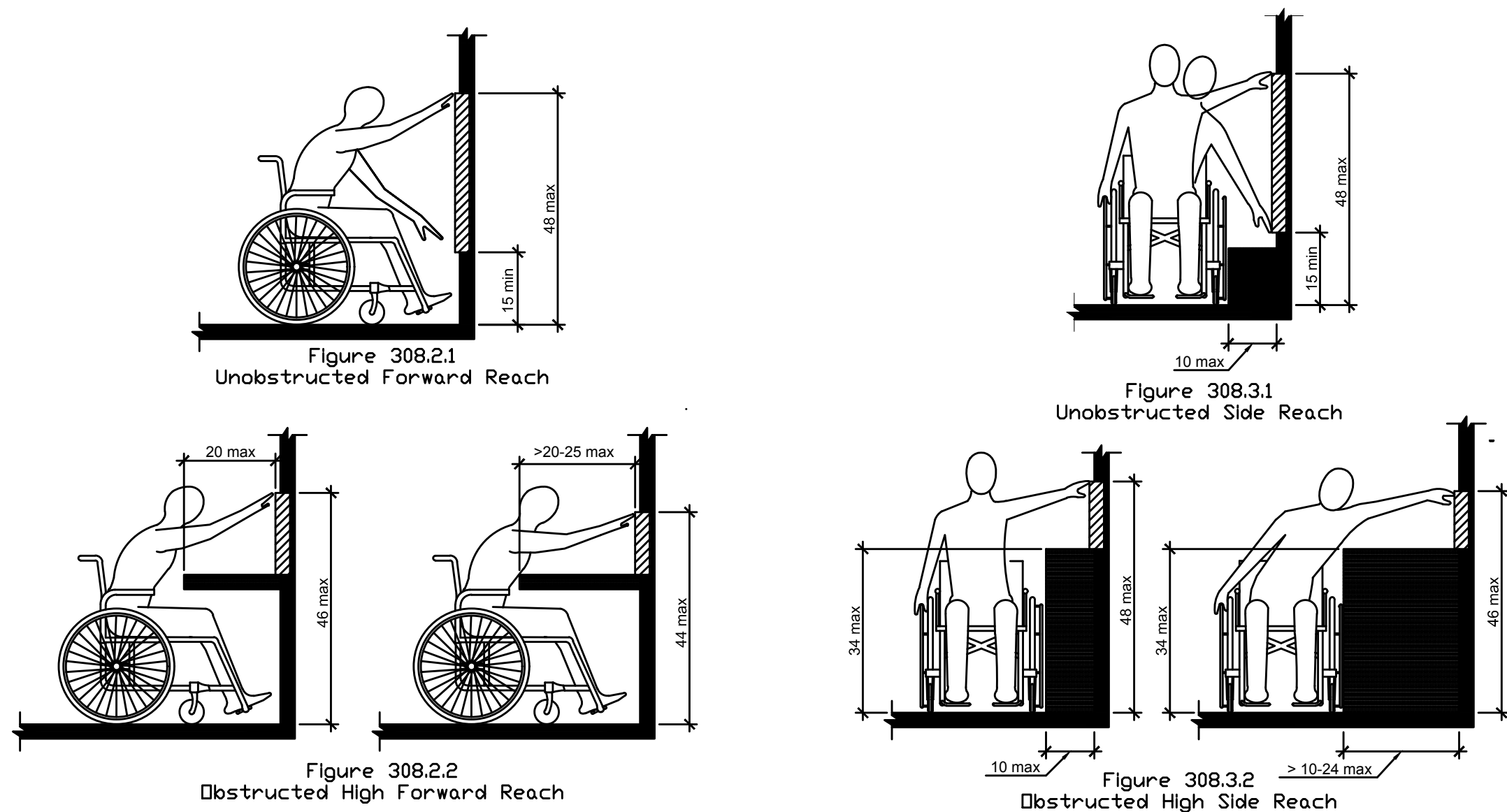
- ELECTRICAL CONTRACTOR TO PROVIDE BATHROOM HEATERS AND COORDINATE INSTALLATION WITH THE MECHANICAL CONTRACTOR. EACH HEATER SHALL BE CONTROLLED VIA WALL MOUNTED THERMOSTAT, KING ELECTRICAL MODEL K101 OR APPROVED OTHER, MOUNTED PER ADA REACH REQUIREMENTS (48" AFF). REFER TO TYPICAL ENLARGED UNIT PLANS FOR ADDITIONAL INFORMATION.
- 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.
- TYPE 'UA' FIXTURES LOCATED IN UNIT BATHROOMS SHALL BE 3000K COLOR TEMPERATURE. ALL OTHER 'UA' FIXTURES SHALL BE AS INDICATED.
- BACK-LIT MIRROR FIXTURE TYPE 'UF' IS A CUSTOM FIXTURE AND SIZE WILL VARY PER EACH UNIT BATHROOM INSTALLATION. CONTRACTOR SHALL CONSULT WITH ARCHITECTURAL INTERIOR ELEVATIONS FOR THE FIXTURE REQUIREMENTS IN EACH UNIT TYPE, INCLUDING MOUNTING HEIGHT AND LOCATION.



3 ROOFTOP GAS APPLIANCE EMERGENCY SHUT-OFF DIAGRAM
E1.22 SCALE: NONE

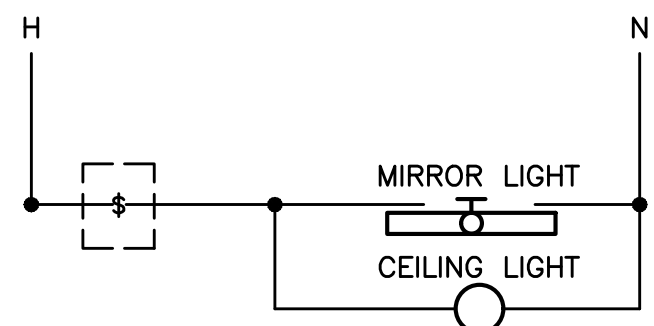


1 SMOKE/FIRE DAMPER CONTROL DIAGRAM
E1.22

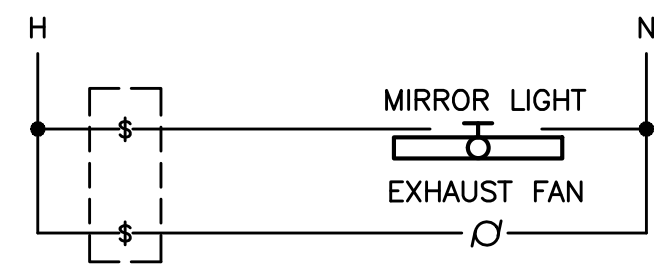


2 ADA REACH REQUIREMENTS
E1.22 N.T.S.

308.2 Forward Reach.
308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48" maximum and the low forward reach shall be 15" minimum above the floor or ground.
308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor or ground space shall extend beneath the element for a distance not less than the required reach depth over the obstruction. The high forward reach shall be 48" maximum where the reach depth is 20" maximum. Where the reach depth exceeds 20", the high forward reach shall be 44" maximum and the reach depth shall be 25" maximum.
308.3 Side Reach.
308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48" maximum and the low side reach shall be 15" minimum above the floor or ground.
Exception: Existing elements shall be permitted at 54" maximum above the floor or ground.
308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an object and the high side reach is over an obstruction, the height of the obstruction shall be 34" maximum and the depth of the obstruction shall 24" maximum. The high side reach shall be 48" maximum for a reach depth of 10" maximum. Where the reach depth exceeds 10", the high side reach shall be 46" maximum for a reach depth of 24" maximum.

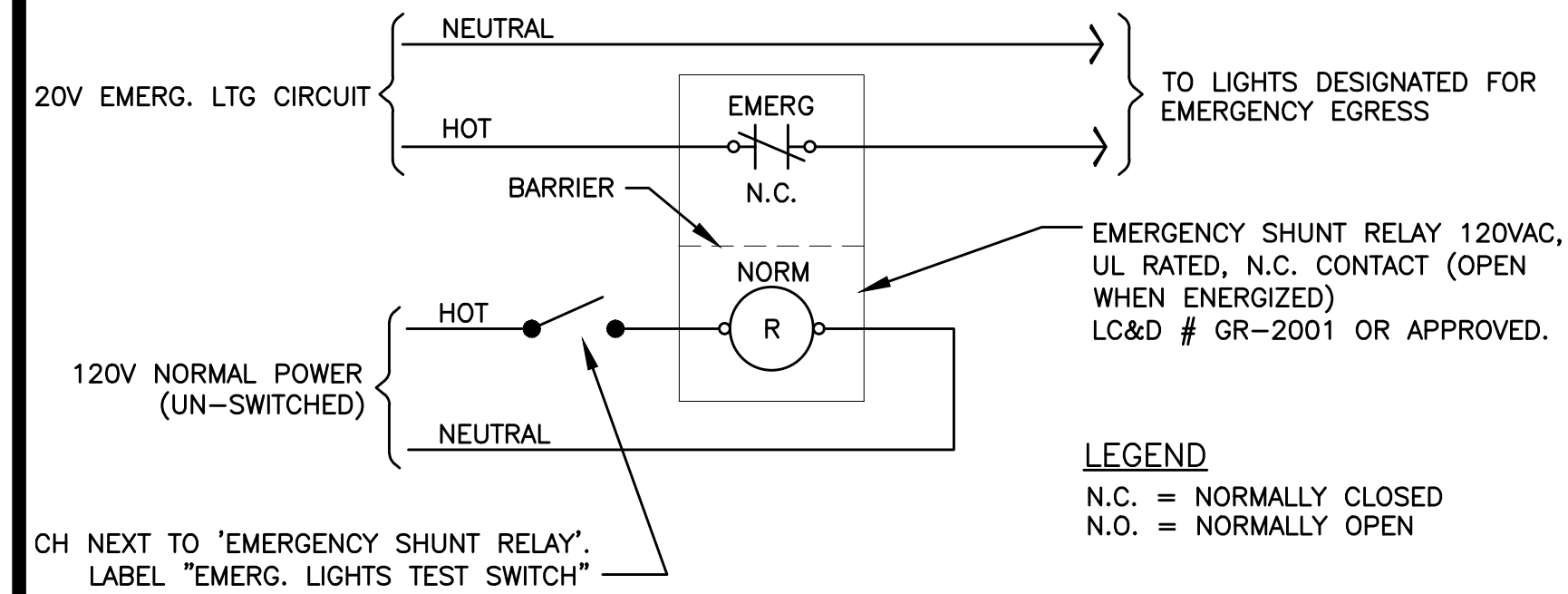


BATHROOM WITH CEILING LIGHT

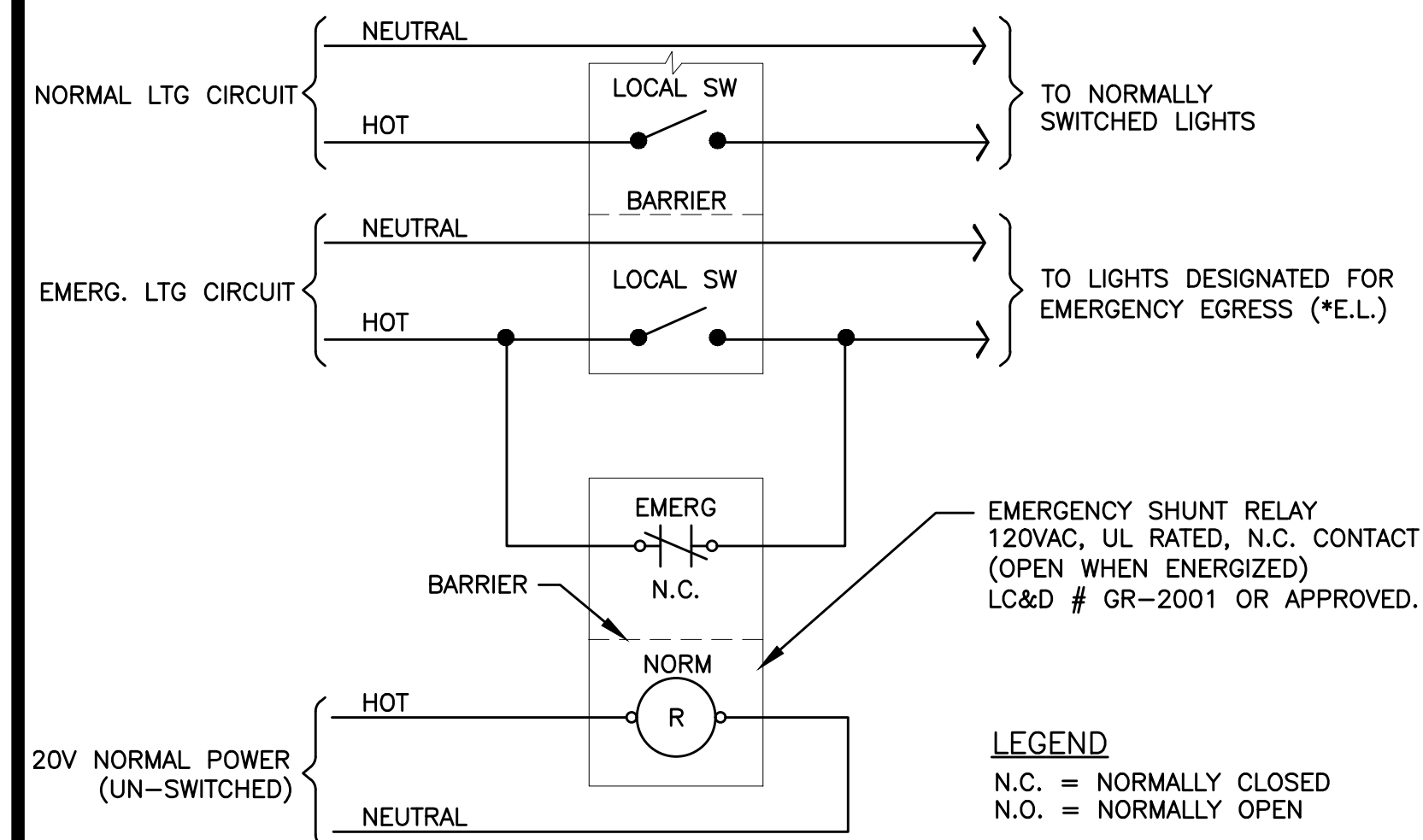


BATHROOM WITH EXHAUST FAN

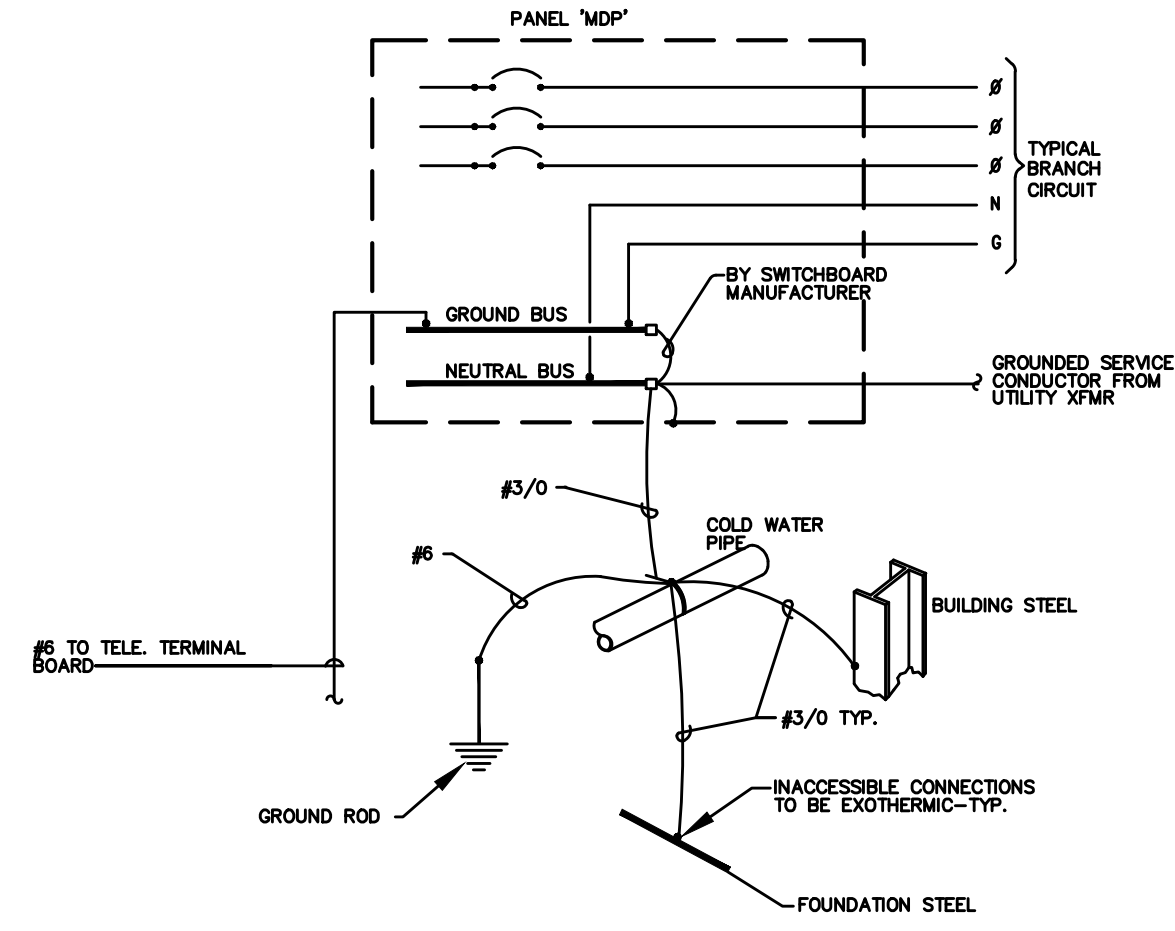
1 BATHROOM SWITCHING DIAGRAM - TYPICAL
E1.23 NO SCALE



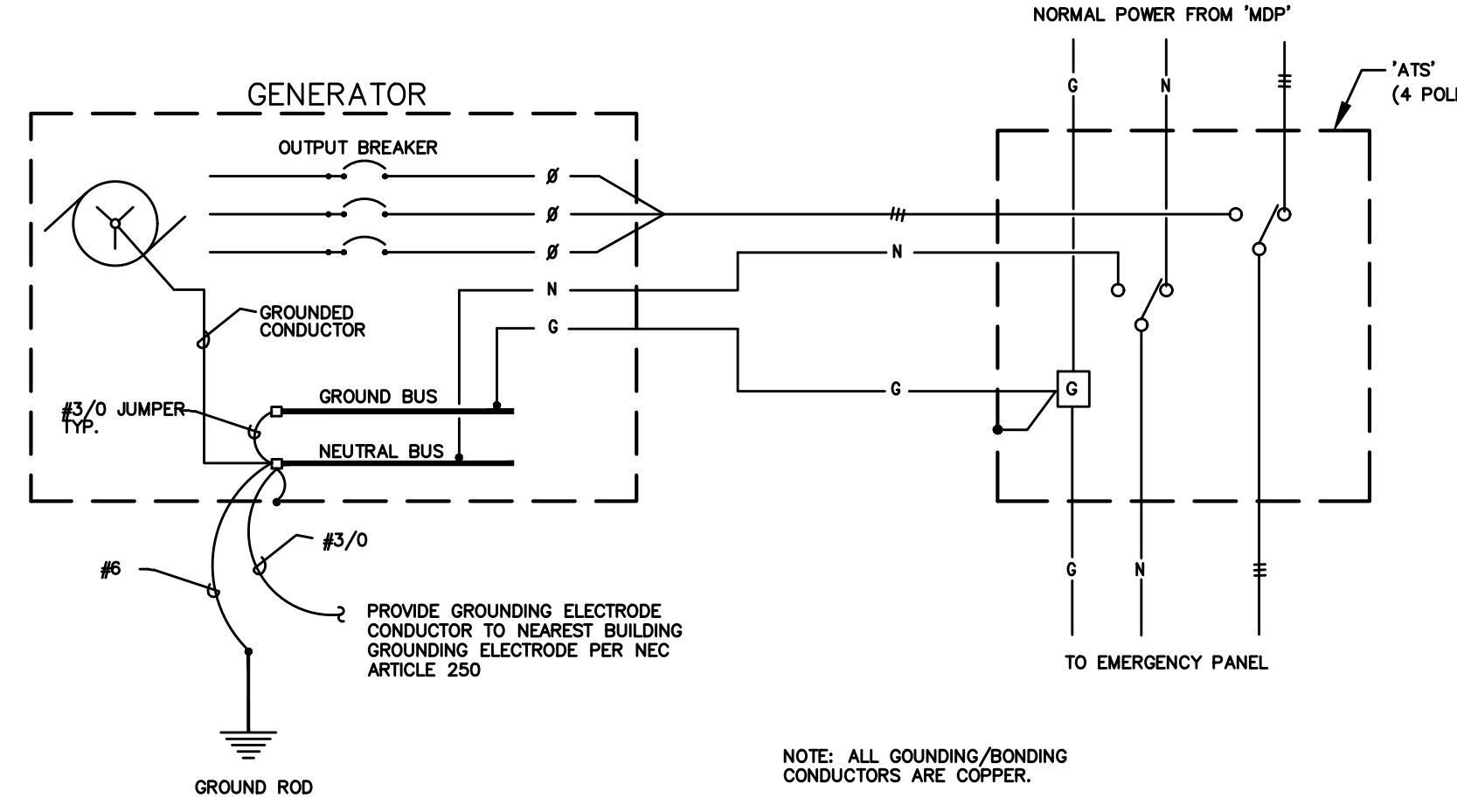
2 EMERGENCY EGRESS LIGHTING - UNSWITCHED
E1.23 NO SCALE



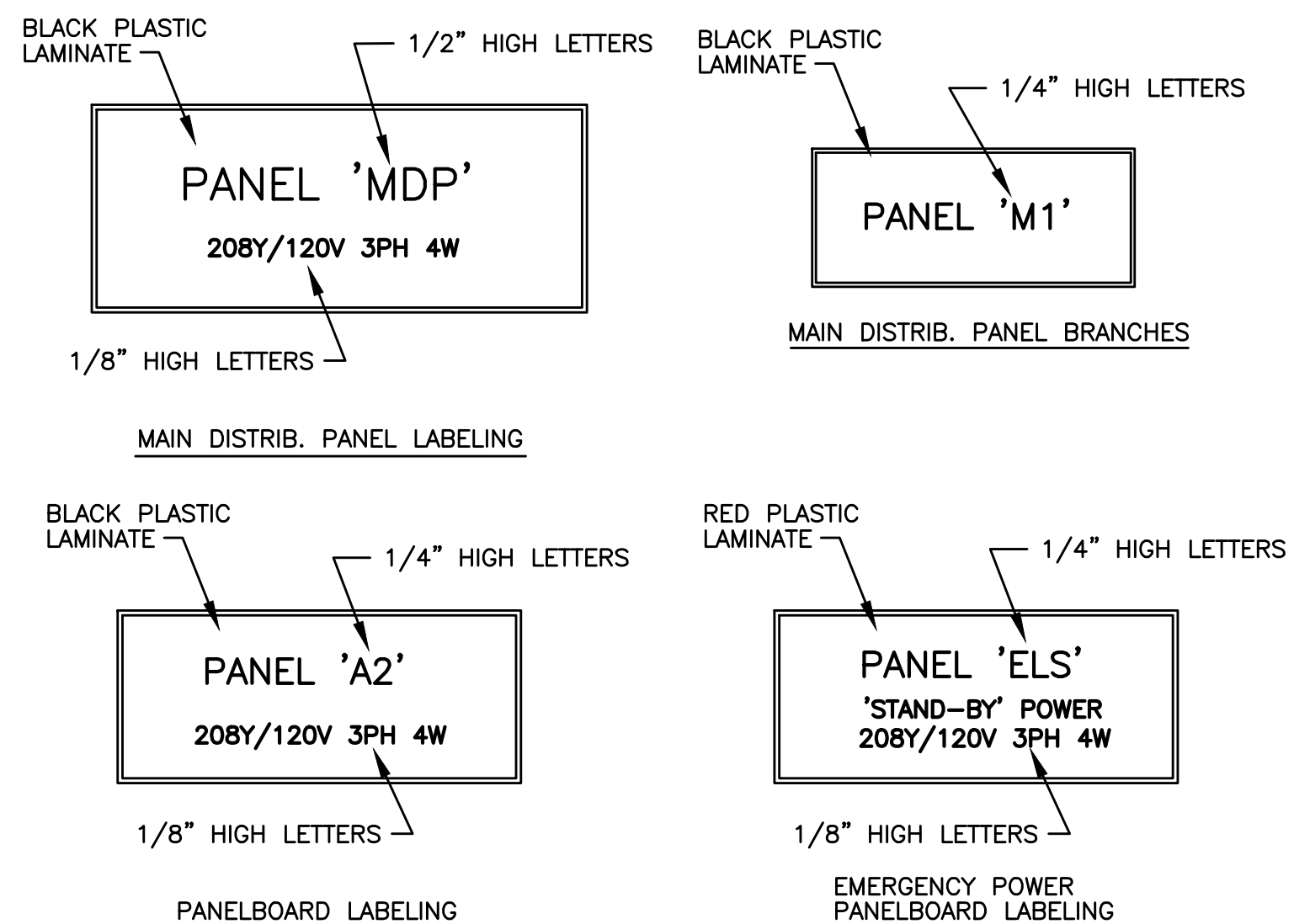
3 EMERGENCY EGRESS LIGHTING - SWITCHED
E1.23 NO SCALE



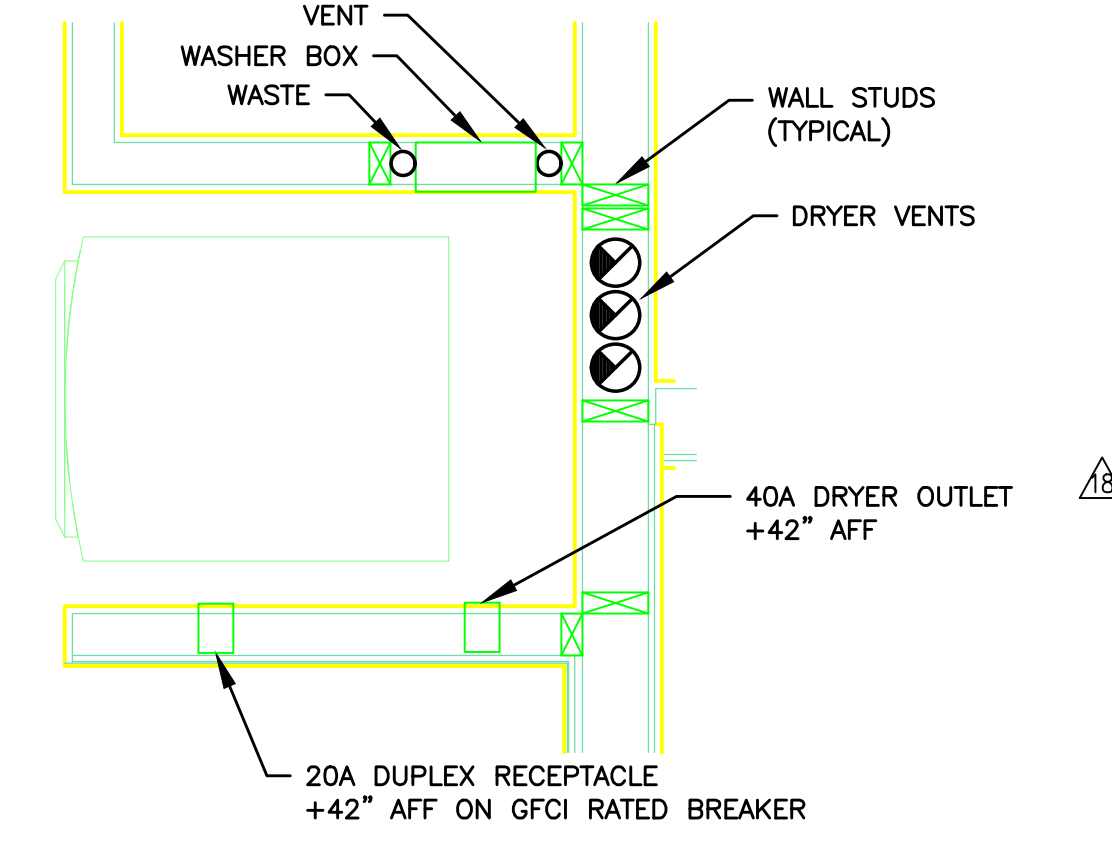
4 GROUNDING/BONDING DIAGRAM
E1.23 208Y/120V, 3Ø, 4 WIRE



5 GENERATOR - ELECTRICAL GROUNDING/BONDING DETAIL
E1.23 NO SCALE

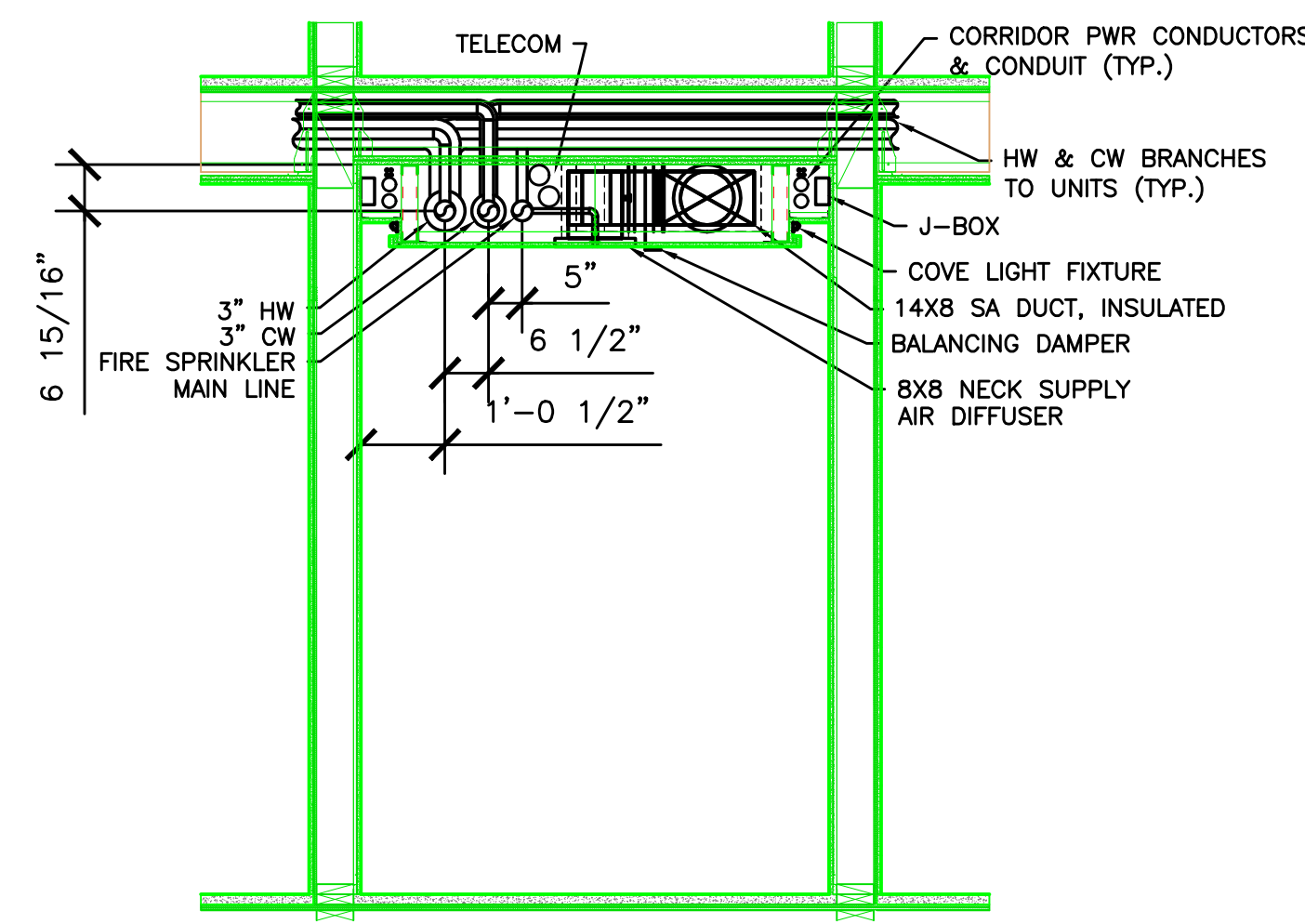


6 SWITCHBOARD/PANEL LABELING DETAIL
E1.23 NO SCALE



7 TYPICAL WASHER/DRYER ALCOVE
E1.23 NO SCALE

NOTE:
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.



NOTES:
1. UNIT ELECTRICAL PANEL FEEDERS ARE NOT TO BE RUN IN CORRIDOR.
2. COVE LIGHT FIXTURES TO BE FIELD AIMED TO MAXIMIZE LUMEN OUTPUT DIRECTED INTO THE CORRIDOR.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES TO ENSURE PROPER COORDINATION OF EQUIPMENT WITHIN THE CEILING CAVITY.
4. REFER TO MECHANICAL SHEET M6.04 FOR ADDITIONAL INFORMATION.

8 CORRIDOR SECTION
E1.23 NO SCALE



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PROJECT # 20XX-XX
DATE: 03-31-2016

REVISIONS
06.30.17 COORDINATION

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PROJECT # 20XX-XX
DATE: 03-31-2016

REVISIONS

02.23.18	COORDINATION
06.22.18	COORDINATION
01.25.19	COORDINATION

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CHELSEA SWITCH SCHEDULE - 1ST FLOOR

SWITCH #	GENERAL LOCATION	BUTTONS		ASSOCIATED RELAY(S)	ENGRAVED LABELING	FUNCTION	DESCRIPTION
		TOTAL	#				
CS1a	LEASE OFFICE	6	1	R3	ZONE 1 ON/OFF	ON/OFF	LOBBY MAIL ROOM & CORRIDOR DOWNLIGHTS
			2	R3	ZONE 1 RAISE	RAISE	LOBBY MAIL ROOM & CORRIDOR DOWNLIGHTS
			3	R3	ZONE 1 LOWER	LOWER	LOBBY MAIL ROOM & CORRIDOR DOWNLIGHTS
			4	R4	ZONE 2 ON/OFF	ON/OFF	LOBBY PENDANT LIGHTS
			5	R4	ZONE 2 RAISE	RAISE	LOBBY PENDANT LIGHTS
			6	R4	ZONE 2 LOWER	LOWER	LOBBY PENDANT LIGHTS

CHELSEA SWITCH SCHEDULE - 1ST FLOOR

SWITCH #	GENERAL LOCATION	BUTTONS		ASSOCIATED RELAY(S)	ENGRAVED LABELING	FUNCTION	DESCRIPTION
		TOTAL	#				
CS1b	LEASE OFFICE	6	1	R5	ZONE 1 ON/OFF	ON/OFF	LOBBY COVE LIGHTS
			2	R5	ZONE 1 RAISE	RAISE	LOBBY COVE LIGHTS
			3	R5	ZONE 1 LOWER	LOWER	LOBBY COVE LIGHTS
			4	R6	ZONE 2 ON/OFF	ON/OFF	LOBBY ACCENT & TRACK LIGHTS
			5	R6	ZONE 2 RAISE	RAISE	LOBBY ACCENT & TRACK LIGHTS
			6	R6	ZONE 2 LOWER	LOWER	LOBBY ACCENT & TRACK LIGHTS

CHELSEA SWITCH SCHEDULE - 1ST FLOOR

SWITCH #	GENERAL LOCATION	BUTTONS		ASSOCIATED RELAY(S)	ENGRAVED LABELING	FUNCTION	DESCRIPTION
		TOTAL	#				
CS1c	LEASE OFFICE	3	1	R19	EGRESS	ON/OFF	LOBBY EGRESS
			2	R19	EGRESS	RAISE	LOBBY EGRESS
			3	R19	EGRESS	LOWER	LOBBY EGRESS

CHELSEA SWITCH SCHEDULE - 2ND FLOOR

SWITCH #	GENERAL LOCATION	BUTTONS		ASSOCIATED RELAY(S)	ENGRAVED LABELING	FUNCTION	DESCRIPTION
		TOTAL	#				
CS2a	2ND FLOOR TRASH RM	6	1	R7	ZONE 1 ON/OFF	ON/OFF	DOWNLIGHTS AT UNIT ENTRIES
			2	R7	ZONE 1 RAISE	RAISE	DOWNLIGHTS AT UNIT ENTRIES
			3	R7	ZONE 1 LOWER	LOWER	DOWNLIGHTS AT UNIT ENTRIES
			4	R8	ZONE 2 ON/OFF	ON/OFF	LOBBY ACCENT & TRACK LIGHTS
			5	R8	ZONE 2 RAISE	RAISE	LOBBY ACCENT & TRACK LIGHTS
			6	R8	ZONE 2 LOWER	LOWER	LOBBY ACCENT & TRACK LIGHTS

CHELSEA SWITCH SCHEDULE - 2ND FLOOR

SWITCH #	GENERAL LOCATION	BUTTONS		ASSOCIATED RELAY(S)	ENGRAVED LABELING	FUNCTION	DESCRIPTION
		TOTAL	#				
CS2b	2ND FLOOR TRASH RM	3	1	R20	ZONE 3 ON/OFF	ON/OFF	COVE LIGHTS ON EMERG. POWER
			2	R20	ZONE 3 RAISE	RAISE	COVE LIGHTS ON EMERG. POWER
			3	R20	ZONE 3 LOWER	LOWER	COVE LIGHTS ON EMERG. POWER

CHELSEA SWITCH NOTES:

A. REGARDLESS OF SETTING, EGRESS LIGHTING SHALL REMAIN "ON" AT ALL TIMES. MANUAL SWITCHING IS ONLY PROVIDED FOR MAINTENANCE PURPOSES.

B. EGRESS LIGHTING SHALL MEET CODE MINIMUM REQUIREMENT OF (1) FOOTCANDLE AVERAGE, MEASURED AT THE FLOOR AT ALL TIMES. CONSULT VENDOR FOR PROCEDURE TO SET DIMMING LIMITS FOR THE RESIDENT FLOOR COVE LIGHTS.

C. CONTRACTOR TO PROVIDE LOCKING COVERS AT ALL SWITCH LOCATIONS TO PREVENT TAMPERING ONCE LIGHT LEVELS ARE SET BY THE OWNER.

GENERAL NOTES:

A. DESIGN IS BASED ON 'LCD' COMPANY EQUIPMENT. THE LIGHTING CONTROL SYSTEM WILL BE INSTALLED COMPLETE WITH ALL FUNCTIONS MEETING THE DESIGN INTENT.

B. ADEQUATE TRAINING SHALL BE PROVIDED TO THE OWNER (& REPRESENTATIVES) TO FULLY UNDERSTAND LIGHTING CONTROL SYSTEM FUNCTIONS, PROGRAMMING, MAINTENANCE, RE-PROGRAMMING RELAYS, ETC.

C. REFER TO SHEET E1.25 FOR CHELSEA SWITCH INFORMATION.

'LCP' - DETAIL NOTES:

1. RELAYS R1, R2, R12, R17, R18 & R24 ARE PHOTOCELL/TIMELOCK CONTROLLED. VERIFY WITH OWNER FOR TIMELOCK SETTINGS. DESIGN INTENT IS FOR DUSK-TIL-DAWN OPERATION.

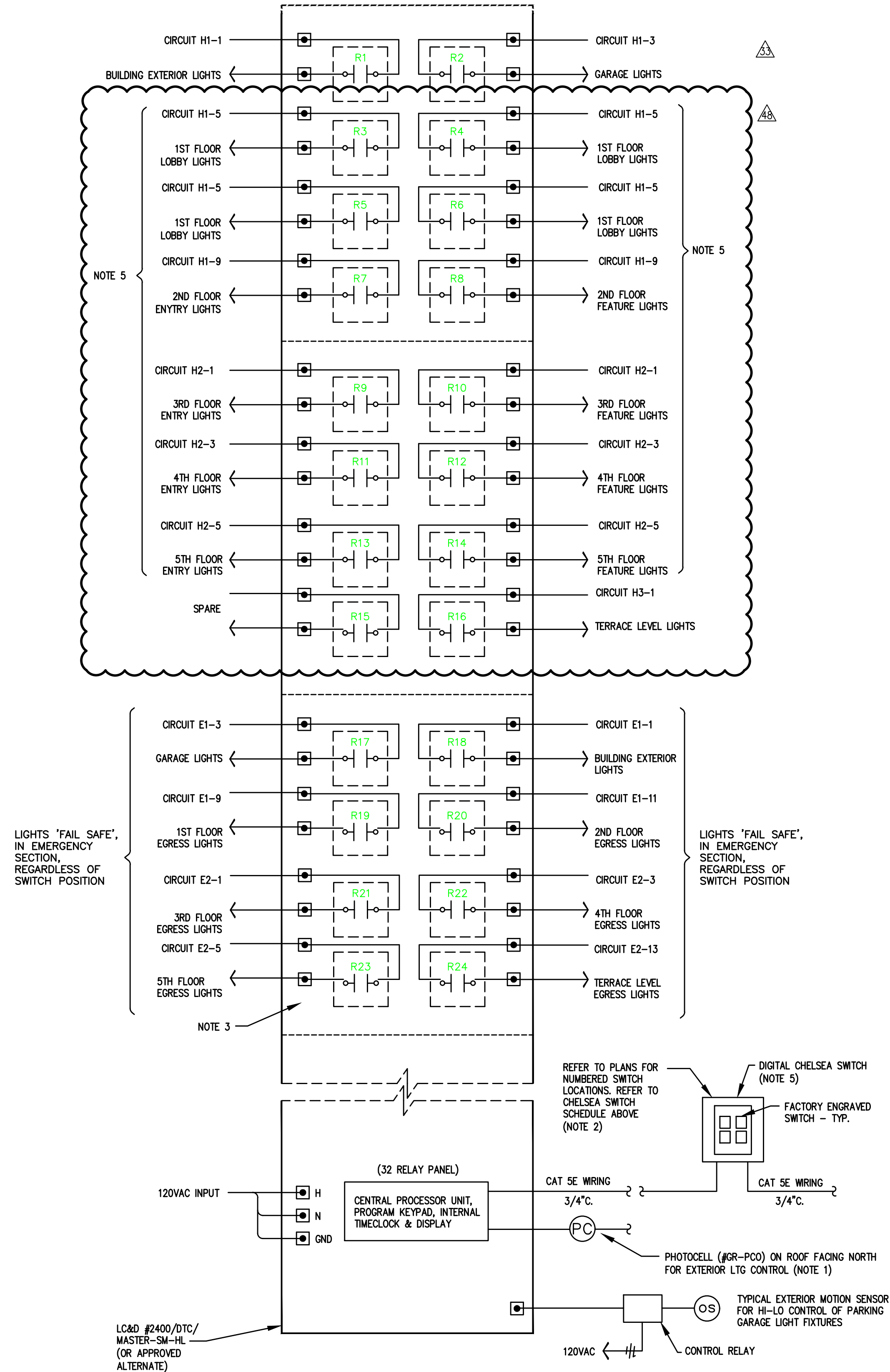
2. RELAYS R3 - R11 ARE TIMELOCK CONTROLLED AS WELL AS MANUALLY SWITCHED BY CHELSEA SWITCH. COORDINATE WITH OWNER FOR SET TIMES.

3. UL924 BARRIERED SECTION FOR EMERGENCY CIRCUITS.

4. RELAYS R19 - R23 INTENDED TO BE CONSTANT "ON".

5. CHELSEA SWITCHES FOR CORRIDOR LIGHTS ON FLOORS 2, 3, 4 & 5 TO HAVE LOCKING COVER.

MASTER PANEL 'LCP'



1 LIGHTING CONTROL SYSTEM DIAGRAM
E1.24 NO SCALE



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PROJECT # 20XX-XX
DATE: 03-31-2016

REVISIONS	
33	02.23.18 COORDINATION
32	06.22.18 COORDINATION
31	01.25.19 COORDINATION

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CHELSEA SWITCH SCHEDULE – 3RD FLOOR

SWITCH #	GENERAL LOCATION	BUTTONS		ASSOCIATED RELAY(S)	ENGRAVED LABELING	FUNCTION	DESCRIPTION
		TOTAL	#				
CS3a	3RD FLOOR TRASH RM	6	1	R9	ZONE 1 ON/OFF	ON/OFF	DOWNLIGHTS AT UNIT ENTRIES
			2	R9	ZONE 1 RAISE	RAISE	DOWNLIGHTS AT UNIT ENTRIES
			3	R9	ZONE 1 LOWER	LOWER	DOWNLIGHTS AT UNIT ENTRIES
			4	R10	ZONE 2 ON/OFF	ON/OFF	LOBBY ACCENT & TRACK LIGHTS
			5	R10	ZONE 2 RAISE	RAISE	LOBBY ACCENT & TRACK LIGHTS
			6	R10	ZONE 2 LOWER	LOWER	LOBBY ACCENT & TRACK LIGHTS

CHELSEA SWITCH SCHEDULE – 3RD FLOOR

SWITCH #	GENERAL LOCATION	BUTTONS		ASSOCIATED RELAY(S)	ENGRAVED LABELING	FUNCTION	DESCRIPTION
		TOTAL	#				
CS3b	3RD FLOOR TRASH RM	3	1	R21	ZONE 3 ON/OFF	ON/OFF	COVE LIGHTS ON EMERG. POWER
			2	R21	ZONE 3 RAISE	RAISE	COVE LIGHTS ON EMERG. POWER
			3	R21	ZONE 3 LOWER	LOWER	COVE LIGHTS ON EMERG. POWER

CHELSEA SWITCH SCHEDULE – 4TH FLOOR

SWITCH #	GENERAL LOCATION	BUTTONS		ASSOCIATED RELAY(S)	ENGRAVED LABELING	FUNCTION	DESCRIPTION
		TOTAL	#				
CS4a	4TH FLOOR TRASH RM	6	1	R11	ZONE 1 ON/OFF	ON/OFF	DOWNLIGHTS AT UNIT ENTRIES
			2	R11	ZONE 1 RAISE	RAISE	DOWNLIGHTS AT UNIT ENTRIES
			3	R11	ZONE 1 LOWER	LOWER	DOWNLIGHTS AT UNIT ENTRIES
			4	R12	ZONE 2 ON/OFF	ON/OFF	LOBBY ACCENT & TRACK LIGHTS
			5	R12	ZONE 2 RAISE	RAISE	LOBBY ACCENT & TRACK LIGHTS
			6	R12	ZONE 2 LOWER	LOWER	LOBBY ACCENT & TRACK LIGHTS

CHELSEA SWITCH SCHEDULE – 4TH FLOOR

SWITCH #	GENERAL LOCATION	BUTTONS		ASSOCIATED RELAY(S)	ENGRAVED LABELING	FUNCTION	DESCRIPTION
		TOTAL	#				
CS4b	4TH FLOOR TRASH RM	3	1	R22	ZONE 3 ON/OFF	ON/OFF	COVE LIGHTS ON EMERG. POWER
			2	R22	ZONE 3 RAISE	RAISE	COVE LIGHTS ON EMERG. POWER
			3	R22	ZONE 3 LOWER	LOWER	COVE LIGHTS ON EMERG. POWER

CHELSEA SWITCH SCHEDULE – 5TH FLOOR

SWITCH #	GENERAL LOCATION	BUTTONS		ASSOCIATED RELAY(S)	ENGRAVED LABELING	FUNCTION	DESCRIPTION
		TOTAL	#				
CS5a	5TH FLOOR TRASH RM	6	1	R13	ZONE 1 ON/OFF	ON/OFF	DOWNLIGHTS AT UNIT ENTRIES
			2	R13	ZONE 1 RAISE	RAISE	DOWNLIGHTS AT UNIT ENTRIES
			3	R13	ZONE 1 LOWER	LOWER	DOWNLIGHTS AT UNIT ENTRIES
			4	R14	ZONE 2 ON/OFF	ON/OFF	LOBBY ACCENT & TRACK LIGHTS
			5	R14	ZONE 2 RAISE	RAISE	LOBBY ACCENT & TRACK LIGHTS
			6	R14	ZONE 2 LOWER	LOWER	LOBBY ACCENT & TRACK LIGHTS

CHELSEA SWITCH SCHEDULE – 5TH FLOOR

SWITCH #	GENERAL LOCATION	BUTTONS		ASSOCIATED RELAY(S)	ENGRAVED LABELING	FUNCTION	DESCRIPTION
		TOTAL	#				
CS5b	5TH FLOOR ELEV. LOBBY	3	1	R23	ZONE 3 ON/OFF	ON/OFF	COVE LIGHTS ON EMERG. POWER
			2	R23	ZONE 3 RAISE	RAISE	COVE LIGHTS ON EMERG. POWER
			3	R23	ZONE 3 LOWER	LOWER	COVE LIGHTS ON EMERG. POWER

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SHEET:

E1.25



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PROJECT # 20XX-XX
DATE: 03-31-2016

REVISIONS	
△ 02.02.18	COORDINATION
△ 02.23.18	COORDINATION
△ 01.25.19	COORDINATION
△ 07.05.19	COORDINATION

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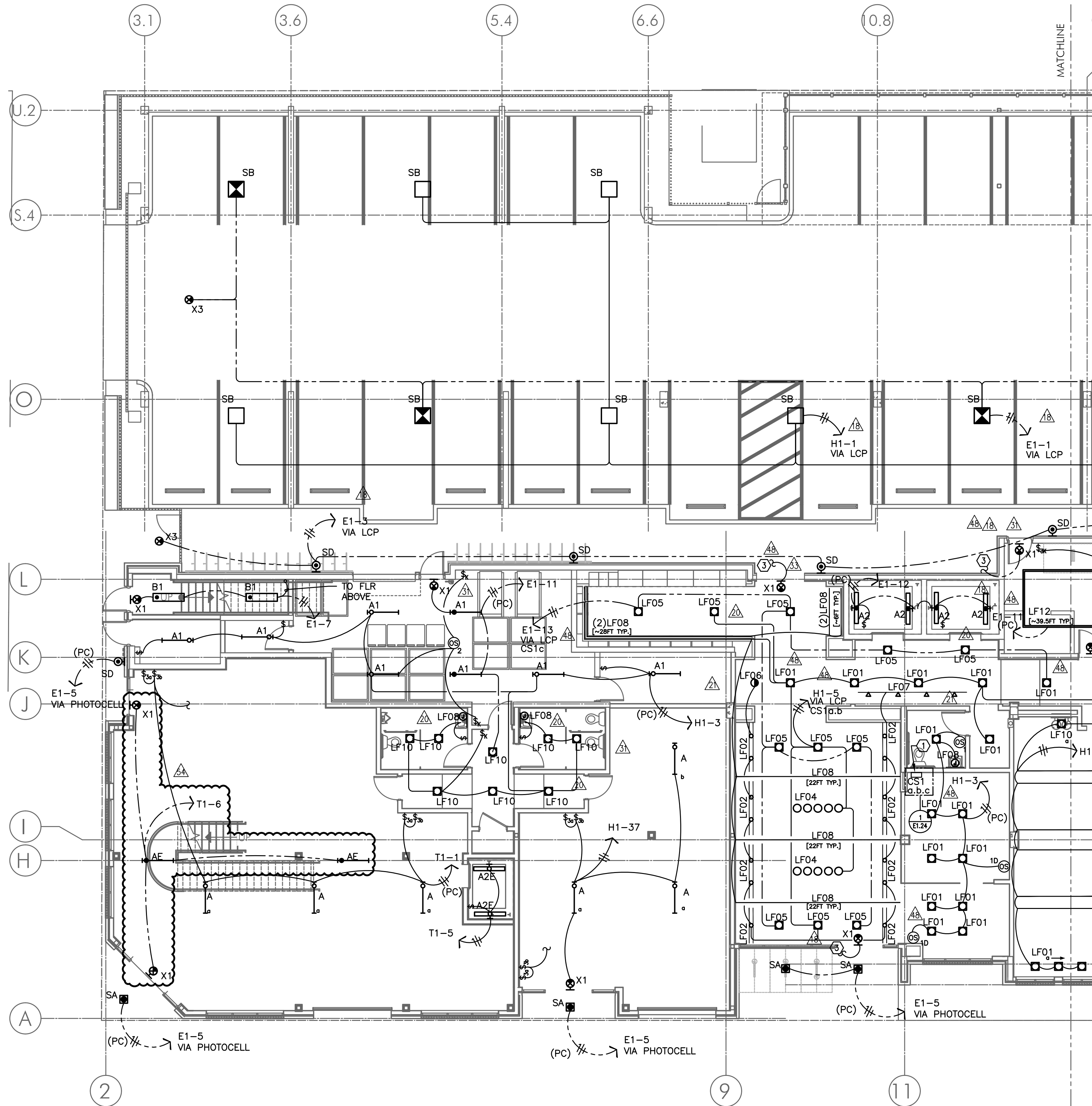
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E2.01n

GENERAL NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. LIGHTING AND RECEPTACLES IN THE RETAIL LEASE SPACES SHALL BE PROVIDED WITH TEMPORARY CIRCUITS FROM THE HOUSE BRANCH PANELS AS INDICATED ON THE PLANS. AT SUCH TIME THAT EACH SPACE IS LEASED AND BUILT TO SUIT THE TENANT, THE TEMPORARY POWER CIRCUITS SHALL BE DISCONNECTED AND REMOVED, WITH THE BREAKERS NOTED AS "SPARE".
- C. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- △ D. NOT USED.
- E. REFER TO E400 SERIES SHEETS FOR TYPICAL APARTMENT UNIT POWER AND LIGHTING LAYOUT.
- F. REFER TO E1.21 FOR LUMINAIRE 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.
- △ △ F. LOW VOLTAGE POWER SUPPLIES FOR LED COVE LIGHTS SHALL BE LOCATED AS INDICATED IN SHEET NOTE #2 BELOW. QUANTITY & SIZE OF POWER SUPPLIES SHALL BE PER MANUFACTURER RECOMMENDATION. REFER TO MFR PRODUCT SUBMITTALS FOR MORE INFORMATION.

KEYED NOTES:

- 1. PROVIDE LOCKING SWITCH COVER.
- △ 2. LOW VOLTAGE TRANSFORMERS FOR COVE LIGHTING PER MANUFACTURER'S REQUIREMENTS. MOUNT DEVICES CLOSE TO CEILING OR ABOVE, IF PROVIDING ACCESS PANEL. WIRING TO BE #12 AWG TO MEET MANUFACTURER'S REQUIREMENTS FOR 5% VOLTAGE DROP. MAXIMUM WIRING RUN TO BE 80'-0".
- △ 3. ALL EXIT SIGNS AND ELEVATOR THRESHOLD LIGHTS SHALL BE CONSTANT 'ON'. TIE INTO CIRCUIT SERVING STAIRWELL #1.
- △ 4. ALL EXIT SIGNS SHALL BE CONSTANT 'ON'. TIE INTO CIRCUIT SERVING STAIRWELL #2.



1 LIGHTING PLAN - FIRST FLOOR (NORTH)
SCALE: 1/8" = 1'-0"

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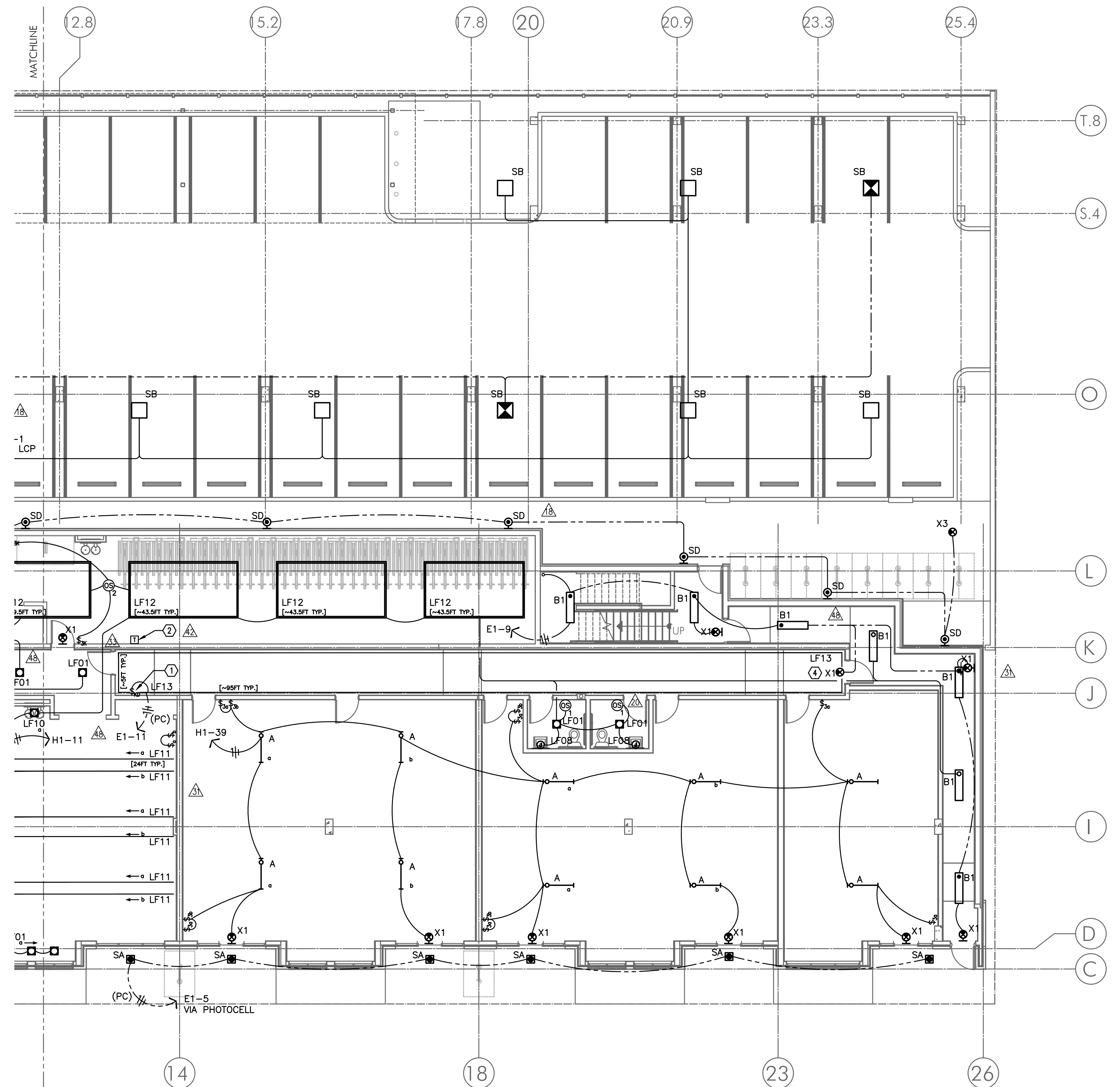
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SHEET:
E2.01s



GENERAL NOTES:

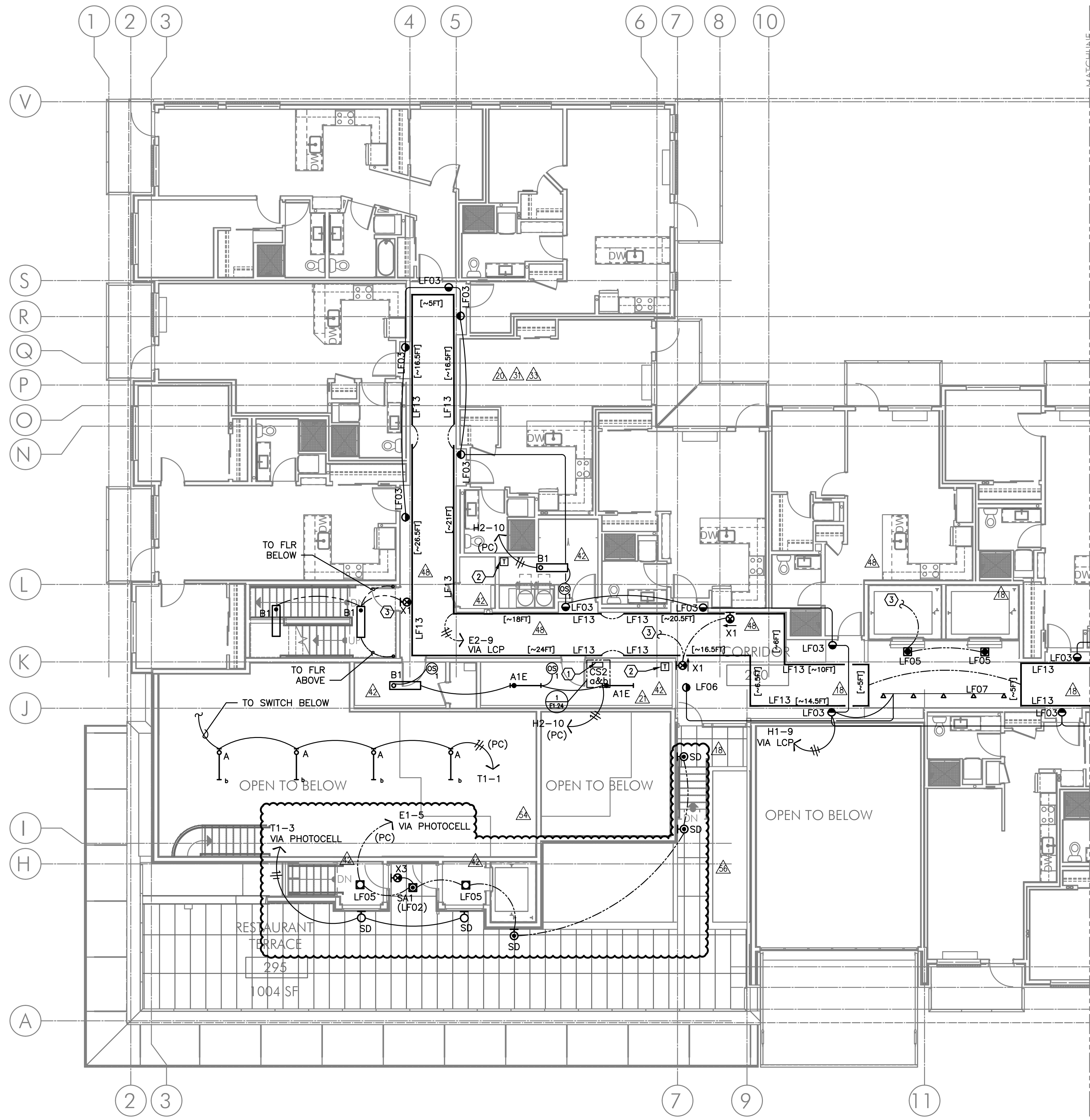
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- B. LIGHTING AND RECEPTACLES IN THE RETAIL LEASE SPACES SHALL BE PROVIDED WITH TEMPORARY CIRCUITS FROM THE HOUSE BRANCH PANELS AS INDICATED ON THE PLANS. AT SUCH TIME THAT EACH SPACE IS LEASED AND BUILT TO SUIT THE TENANT, THE TEMPORARY POWER CIRCUITS SHALL BE DISCONNECTED AND REMOVED, WITH THE BREAKERS NOTED AS "SPARE".
- C. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- △ D. NOT USED.
- E. REFER TO E400 SERIES SHEETS FOR TYPICAL APARTMENT UNIT POWER AND LIGHTING LAYOUT.
- F. REFER TO E1.21 FOR LUMINAIRE 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.
- △ F. LOW VOLTAGE POWER SUPPLIES FOR LED COVE LIGHTS SHALL BE LOCATED AS INDICATED IN SHEET NOTE #2 BELOW. QUANTITY & SIZE OF POWER SUPPLIES SHALL BE PER MANUFACTURER RECOMMENDATION. REFER TO MFR PRODUCT SUBMITTALS FOR MORE INFORMATION.

KEYED NOTES:

- 1. PROVIDE LOCKING SWITCH COVER.
- △ 2. LOW VOLTAGE TRANSFORMERS FOR COVE LIGHTING PER MANUFACTURER'S REQUIREMENTS. MOUNT DEVICES CLOSE TO CEILING OR ABOVE, IF PROVIDING ACCESS PANEL. WIRING TO BE #12 AWG TO MEET MANUFACTURER'S REQUIREMENTS FOR 5% VOLTAGE DROP. MAXIMUM WIRING RUN TO BE 80'-0".
- △ 3. ALL EXIT SIGNS AND ELEVATOR THRESHOLD LIGHTS SHALL BE CONSTANT 'ON'. TIE INTO CIRCUIT SERVING STAIRWELL #1.
- 4. ALL EXIT SIGNS SHALL BE CONSTANT 'ON'. TIE INTO CIRCUIT SERVING STAIRWELL #2.

2 LIGHTING PLAN - FIRST FLOOR (SOUTH)
SCALE: 1/8" = 1'-0"

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

GENERAL NOTES:

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- B. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- C. REFER TO E400 SERIES SHEETS FOR TYPICAL APARTMENT UNIT POWER AND LIGHTING LAYOUT.
- D. REFER TO E1.21 FOR LUMINAIRE SCHEDULE.
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- F. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.
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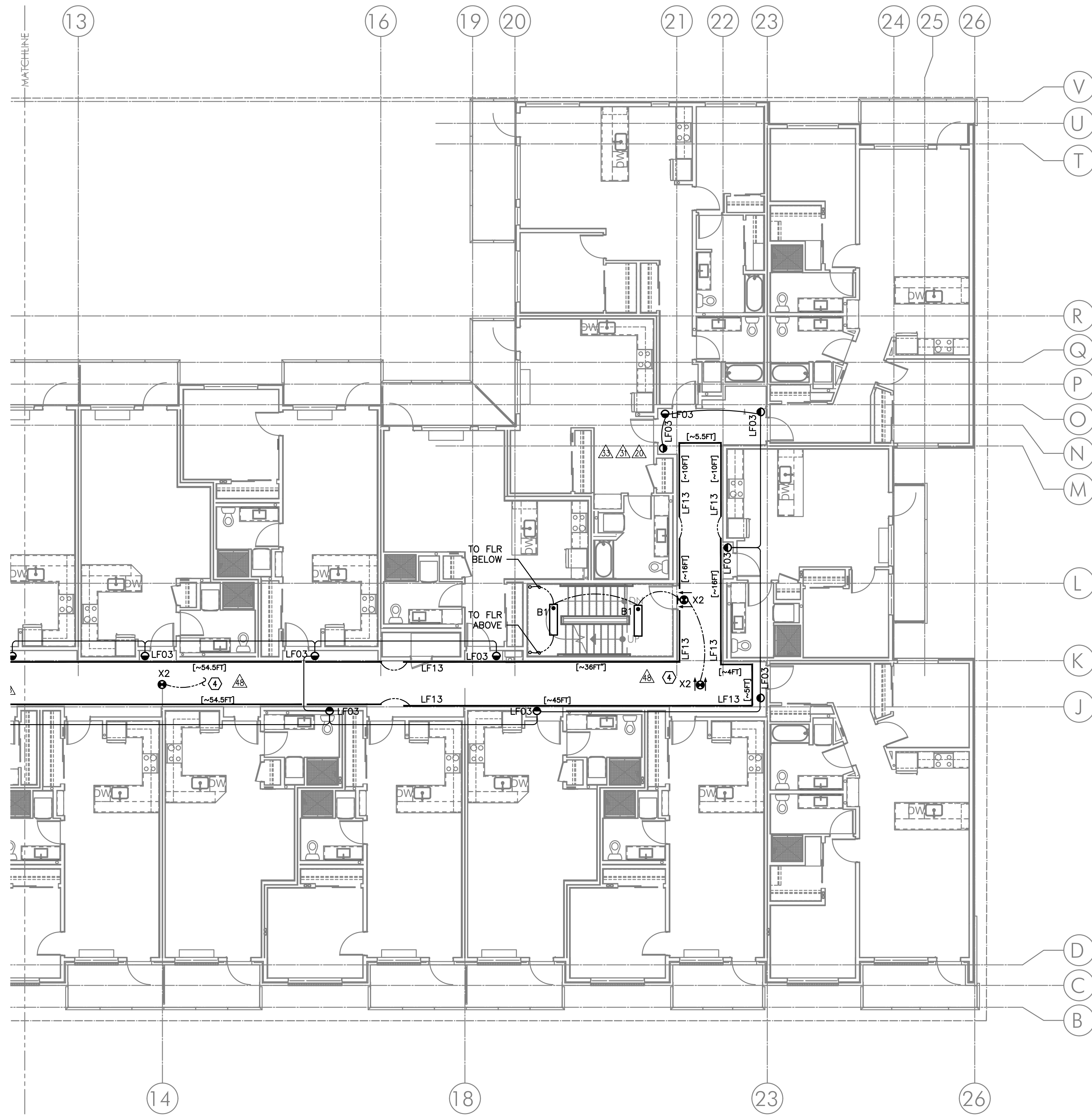


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PROJECT # 20XX-XX
 DATE: 03-31-2016

REVISIONS	
06.22.18	COORDINATION
01.25.19	COORDINATION
07.05.19	COORDINATION
07.26.19	COORDINATION

**VANCOUVER AVE PHASE I
 MIXED USE BUILDING**
 3956 VANCOUVER AVE, PORTLAND, OR 97227



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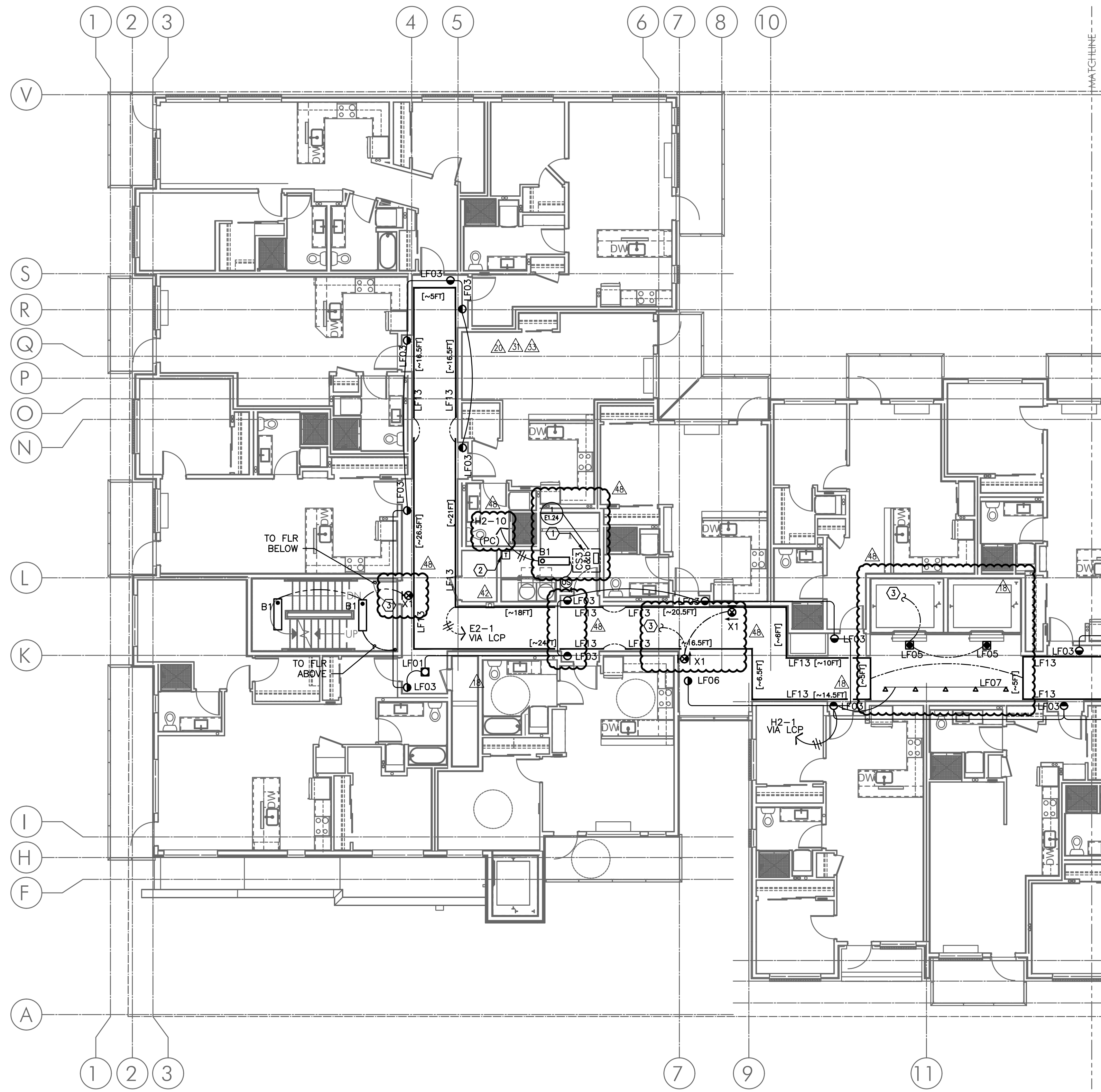
PROJECT # 20XX-XX
DATE: 03-31-2016

REVISIONS	
3	02.02.18 COORDINATION
2	02.23.18 COORDINATION
1	01.25.19 COORDINATION

**VANCOUVER AVE PHASE I
MIXED USE BUILDING**
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CONTACT: DENISE TAYLOR

SHEET:
E2.02s



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PROJECT # 20XX-XX
DATE: 03-31-2016

REVISIONS	
02.23.18	COORDINATION
06.22.18	COORDINATION
01.25.19	COORDINATION

**VANCOUVER AVE PHASE I
MIXED USE BUILDING**
3956 VANCOUVER AVE, PORTLAND, OR 97227

1 LIGHTING PLAN - THIRD FLOOR (NORTH)
E2.03 SCALE: 1/8" = 1'-0"

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E
F
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SHEET:
E2.03n



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PROJECT # 20XX-XX
DATE: 03-31-2016

REVISIONS	
Δ 02.23.18	COORDINATION
Δ 06.22.18	COORDINATION
Δ 01.25.19	COORDINATION

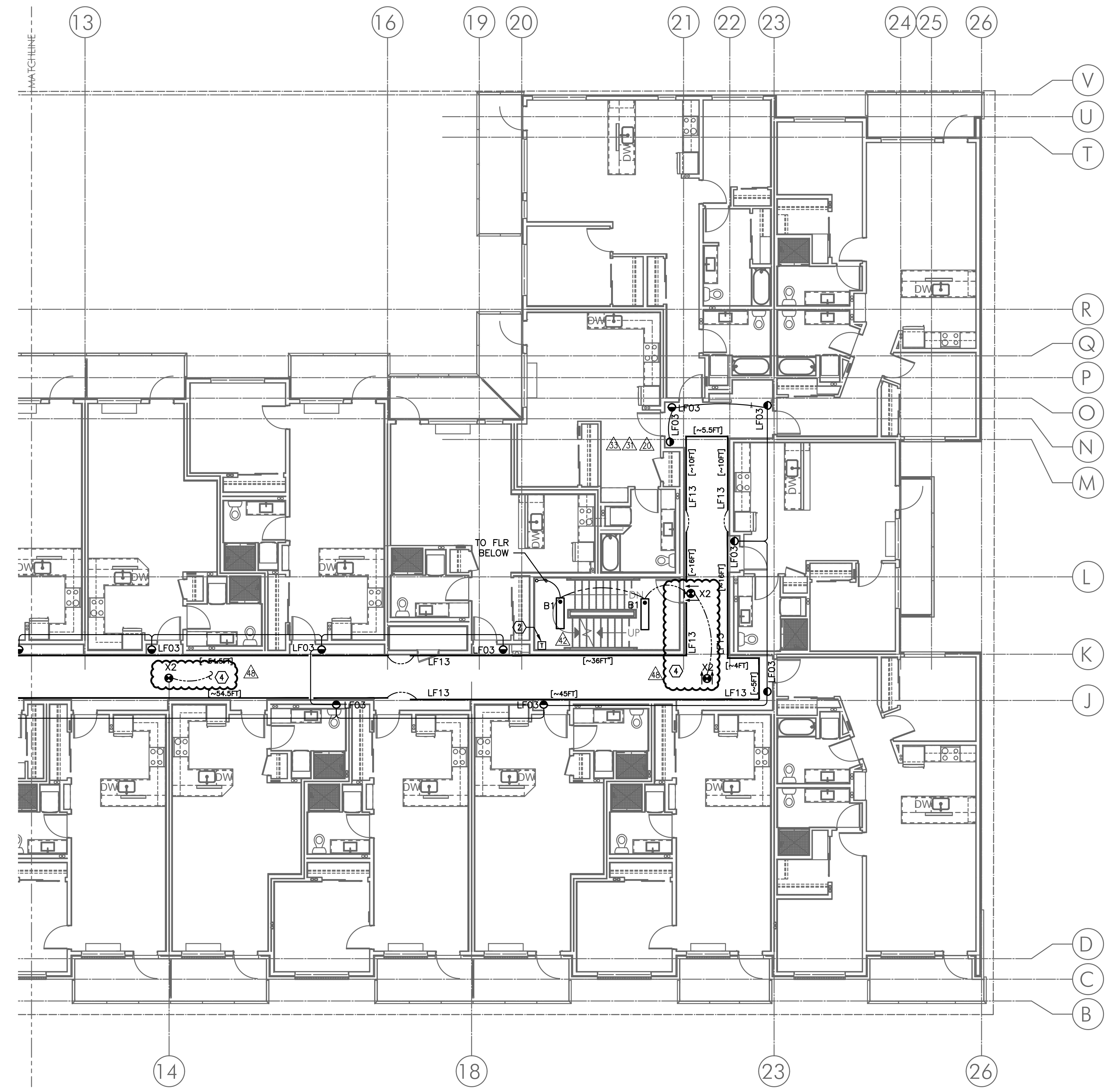
**VANCOUVER AVE PHASE I
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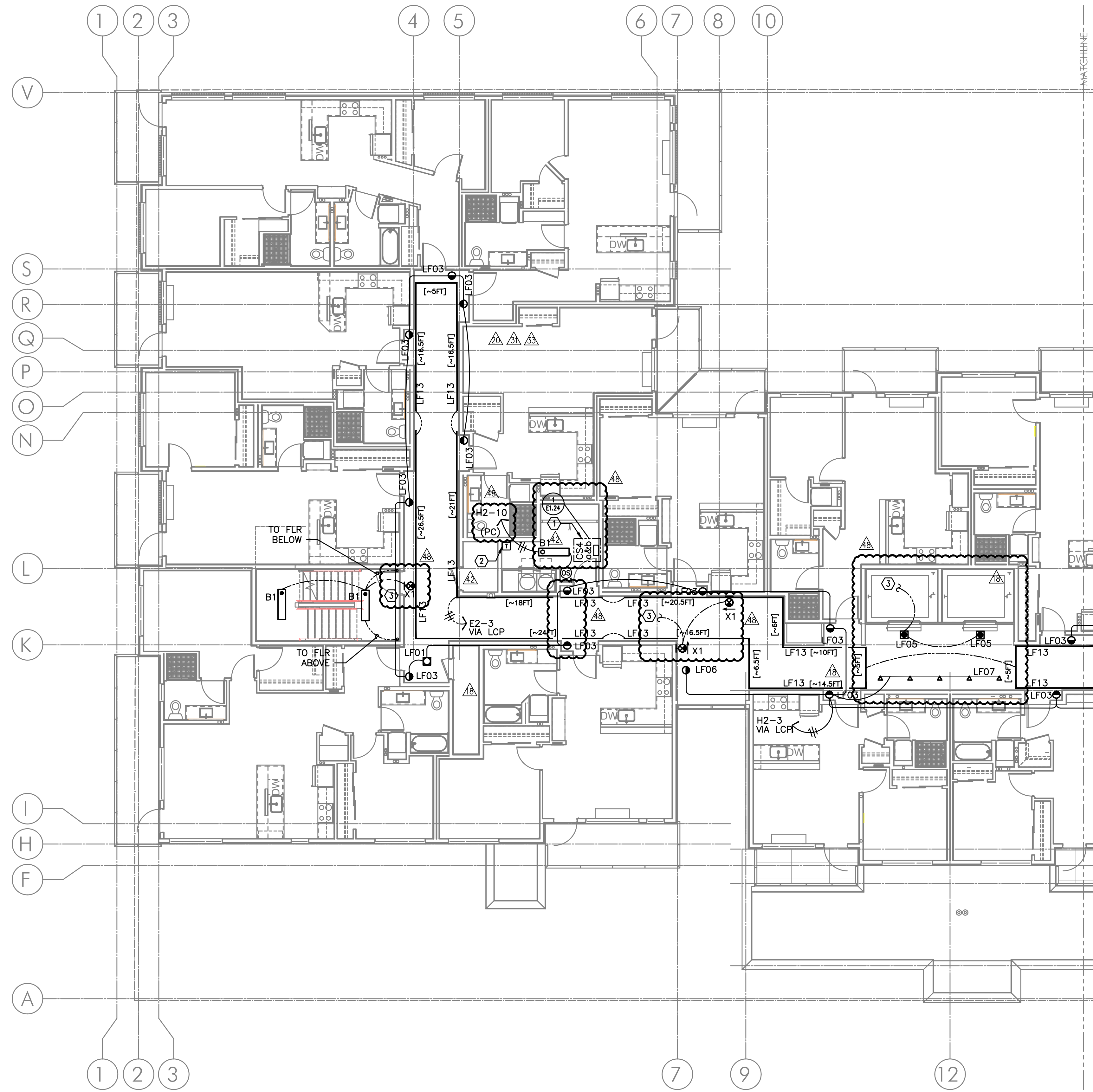
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2 LIGHTING PLAN - THIRD FLOOR (SOUTH)
E2.03 SCALE: 1/8" = 1'-0"

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SHEET:
E2.03s



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KEYED NOTES:

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



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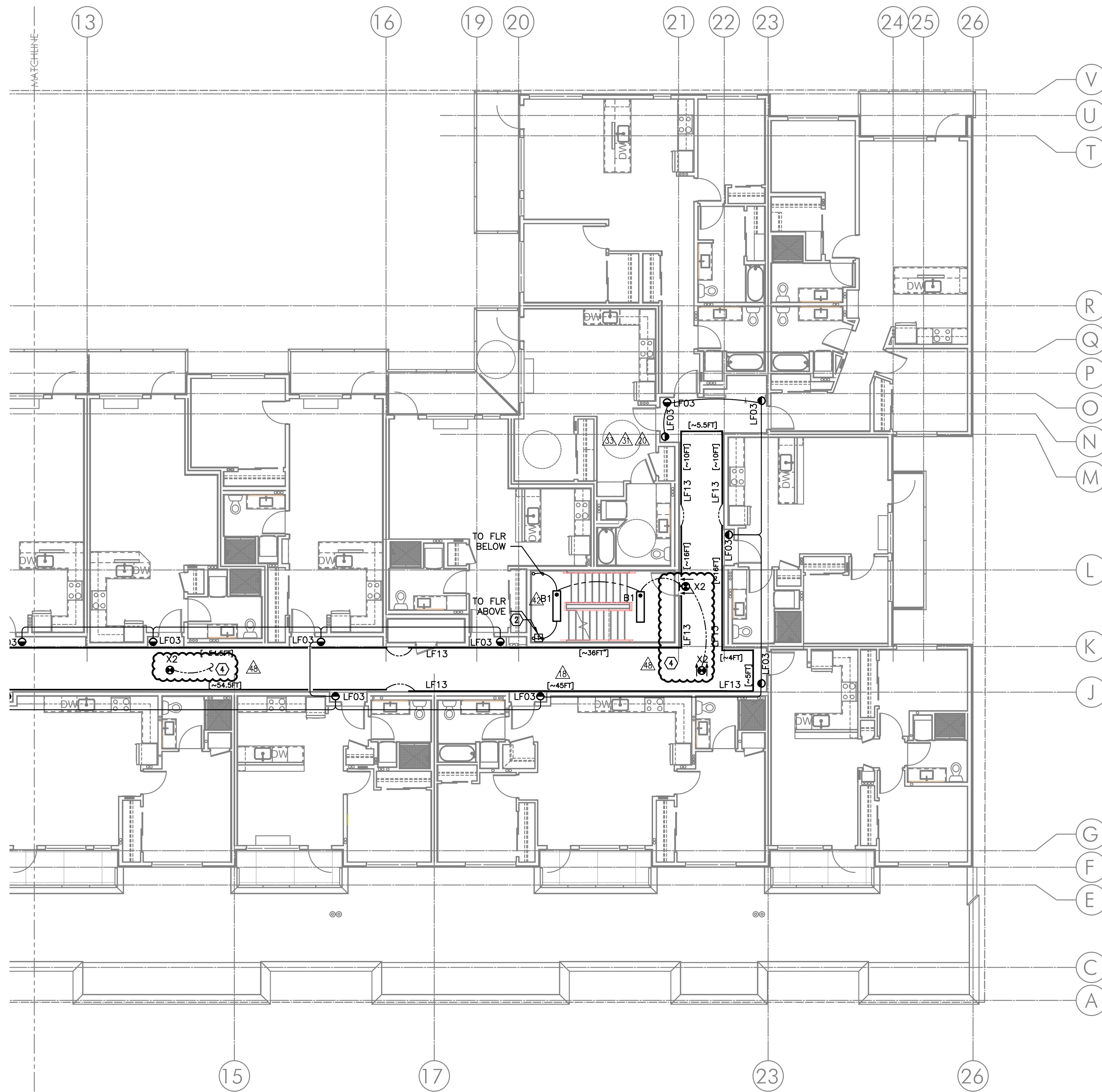
PROJECT # 20XX-XX
DATE: 03-31-2016

REVISIONS	
02.23.18	COORDINATION
06.22.18	COORDINATION
01.25.19	COORDINATION

**VANCOUVER AVE PHASE I
MIXED USE BUILDING**
3956 VANCOUVER AVE, PORTLAND, OR 97227

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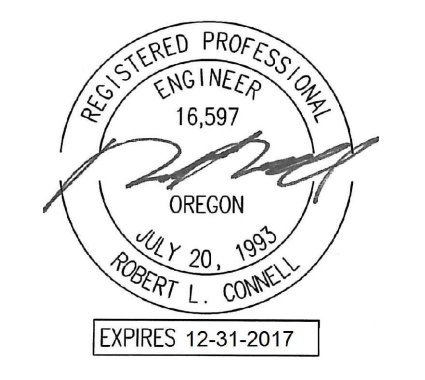
2 LIGHTING PLAN - FOURTH FLOOR (SOUTH)
 E2.04 SCALE: 1/8" = 1'-0"

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PROJECT # 20XX-XX
 DATE: 03-31-2016

REVISIONS	
A3	02.23.18 COORDINATION
A2	06.22.18 COORDINATION
A1	01.25.19 COORDINATION

**VANCOUVER AVE PHASE I
 MIXED USE BUILDING**
 3956 VANCOUVER AVE, PORTLAND, OR 97227



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PROJECT # 20XX-XX
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REVISIONS	
△ 06.22.18	COORDINATION
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△ 05.10.19	COORDINATION

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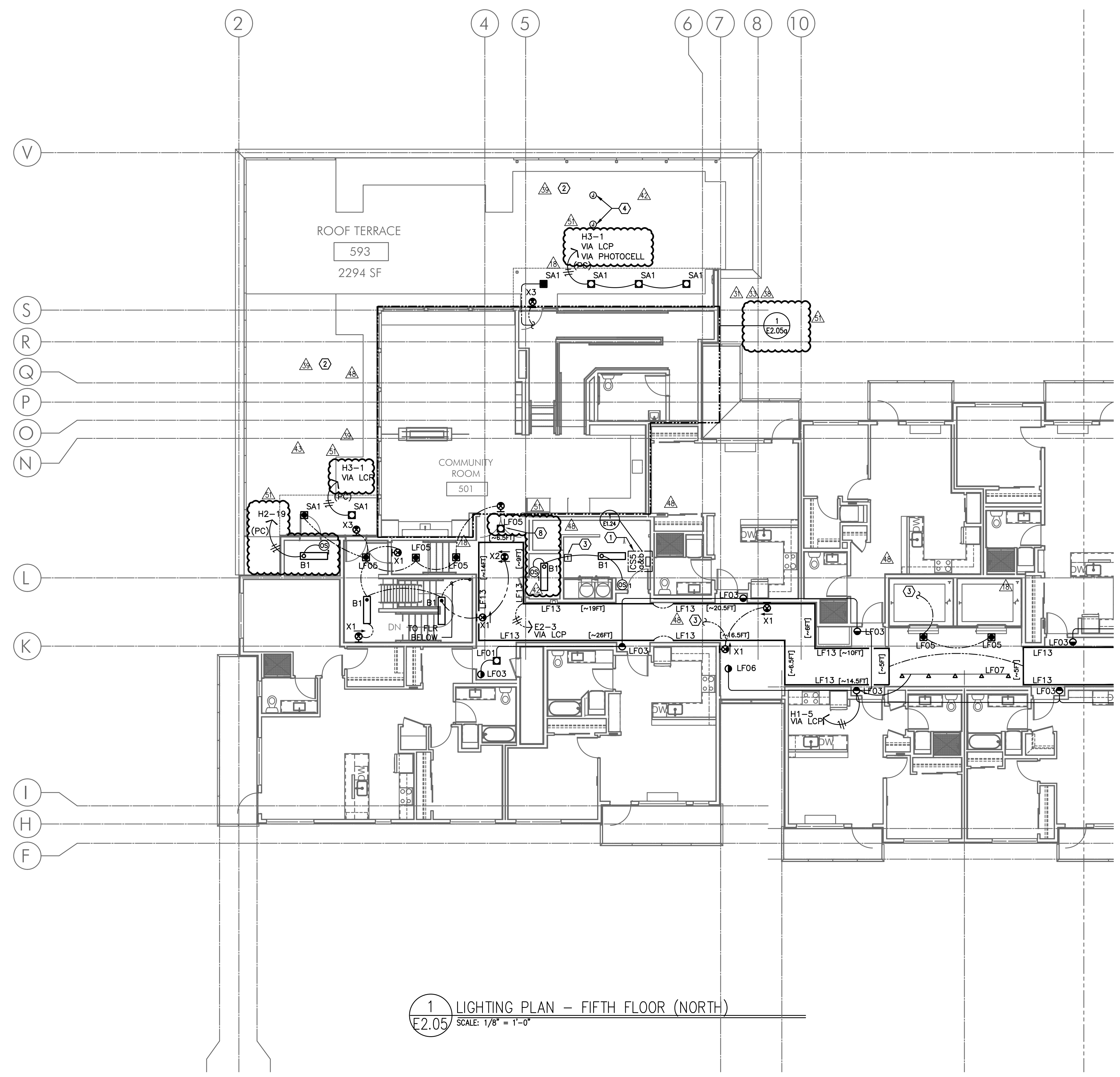
SHEET:
E2.05n

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- E. REFER TO E400 SERIES SHEETS FOR TYPICAL APARTMENT UNIT POWER AND LIGHTING LAYOUT.
- F. REFER TO E1.21 FOR LUMINAIRE 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. LOW VOLTAGE POWER SUPPLIES FOR LED COVE LIGHTS SHALL BE LOCATED AS INDICATED IN SHEET NOTE #3 BELOW. POWER SUPPLIES SHALL BE INSTALLED IN THE TRASH ROOM AND SOUTH STAIRWELL, WITH EACH LOCATION SERVING ONE HALF OF THE CORRIDOR COVE LIGHTS. QUANTITY & SIZE OF POWER SUPPLIES SHALL BE PER MANUFACTURER RECOMMENDATION. REFER TO MFR PRODUCT SUBMITTALS FOR MORE INFORMATION.

KEYED NOTES:

- 1. PROVIDE LOCKING SWITCH COVER.
- 2. REFER TO BOTH LANDSCAPING AND DECORATOR'S PLAN SETS FOR EXACT LOCATION OF ALL LIGHT FIXTURES NOT SHOWN ON THIS PLAN SHEET. REFER TO SHEET E3.05 FOR ADDITIONAL CIRCUITING INFORMATION.
- 3. LOW VOLTAGE TRANSFORMERS FOR COVE LIGHTING PER MANUFACTURER'S REQUIREMENTS. MOUNT DEVICES CLOSE TO CEILING OR ABOVE, IF PROVIDING ACCESS PANEL. WIRING TO BE #12 AWG TO MEET MANUFACTURER'S REQUIREMENTS FOR 5% VOLTAGE DROP. MAXIMUM WIRING RUN TO BE 80'-0".
- 4. PROVIDE CEILING MOUNTED POWER CONNECTION TIED INTO THE TERRACE LIGHTING CIRCUIT FOR OWNER PROVIDED EXTERIOR PENDANT LIGHT FIXTURE. CONSULT ARCHITECT AND/OR INTERIOR DECORATOR FOR EXACT LOCATION, POWER REQUIREMENTS, MOUNTING HEIGHT AND LIGHTING CONTROL METHOD.
- 5. COORDINATE COMMUNITY ROOM LIGHTING CONTROLS WITH INTERIOR DECORATOR FOR TYPE(S) AND LOCATION(S).
- 6. ALL EXIT SIGNS AND ELEVATOR THRESHOLD LIGHTS SHALL BE CONSTANT 'ON'. TIE INTO CIRCUIT SERVING STAIRWELL #1.
- 7. ALL EXIT SIGNS SHALL BE CONSTANT 'ON'. TIE INTO CIRCUIT SERVING STAIRWELL #2.
- 8. TIE FIXTURE INTO "NORMAL POWER" CORRIDOR CIRCUIT, H1-5.



1 LIGHTING PLAN - FIFTH FLOOR (NORTH)
E2.05 SCALE: 1/8" = 1'-0"



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 # 20XX-XX
DATE: 03-31-2016

REVISIONS	
02.23.18	COORDINATION
06.22.18	COORDINATION
01.25.19	COORDINATION

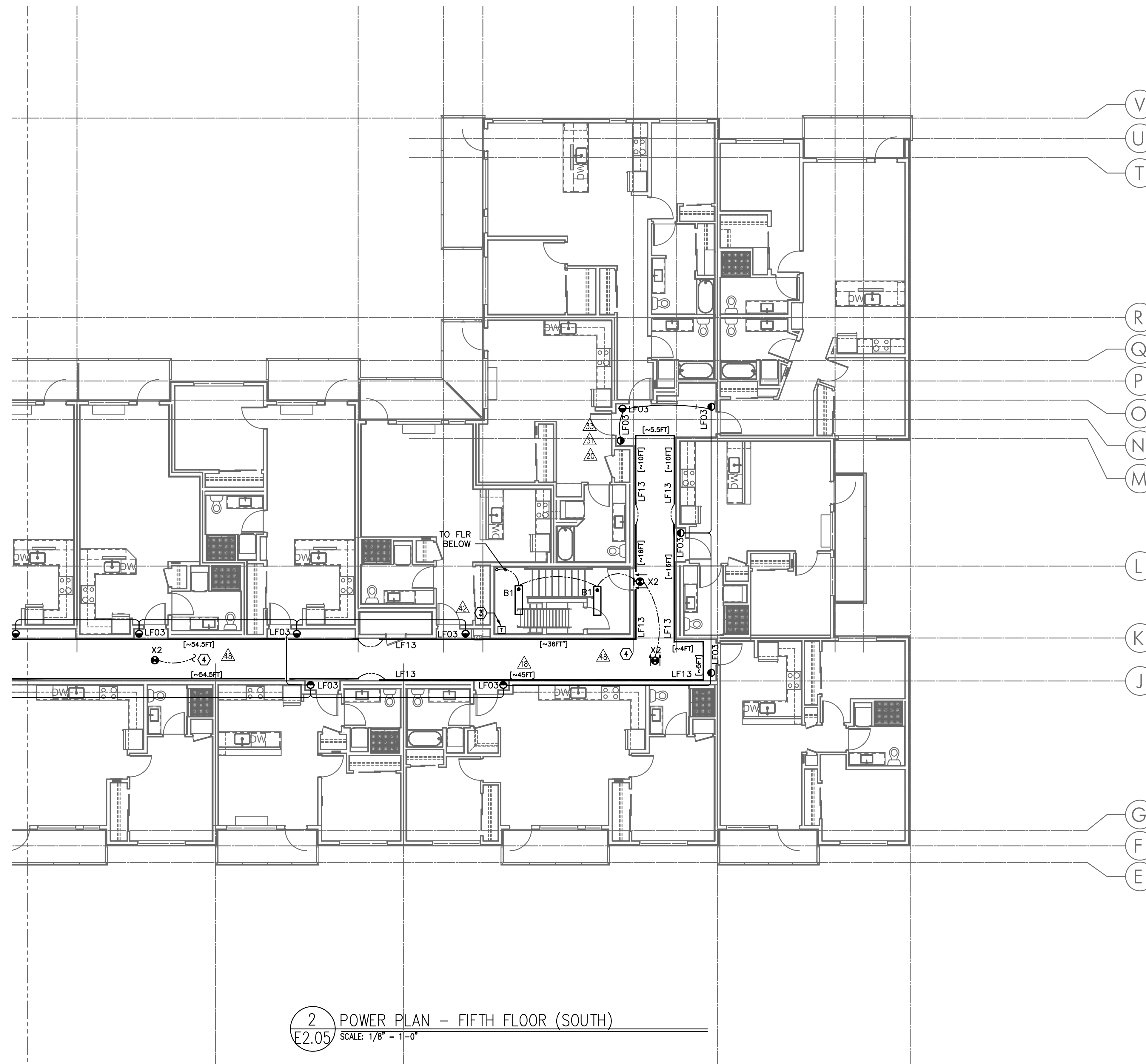
**VANCOUVER AVE PHASE I
MIXED USE BUILDING**
3956 VANCOUVER AVE, PORTLAND, OR 97227

GENERAL NOTES:

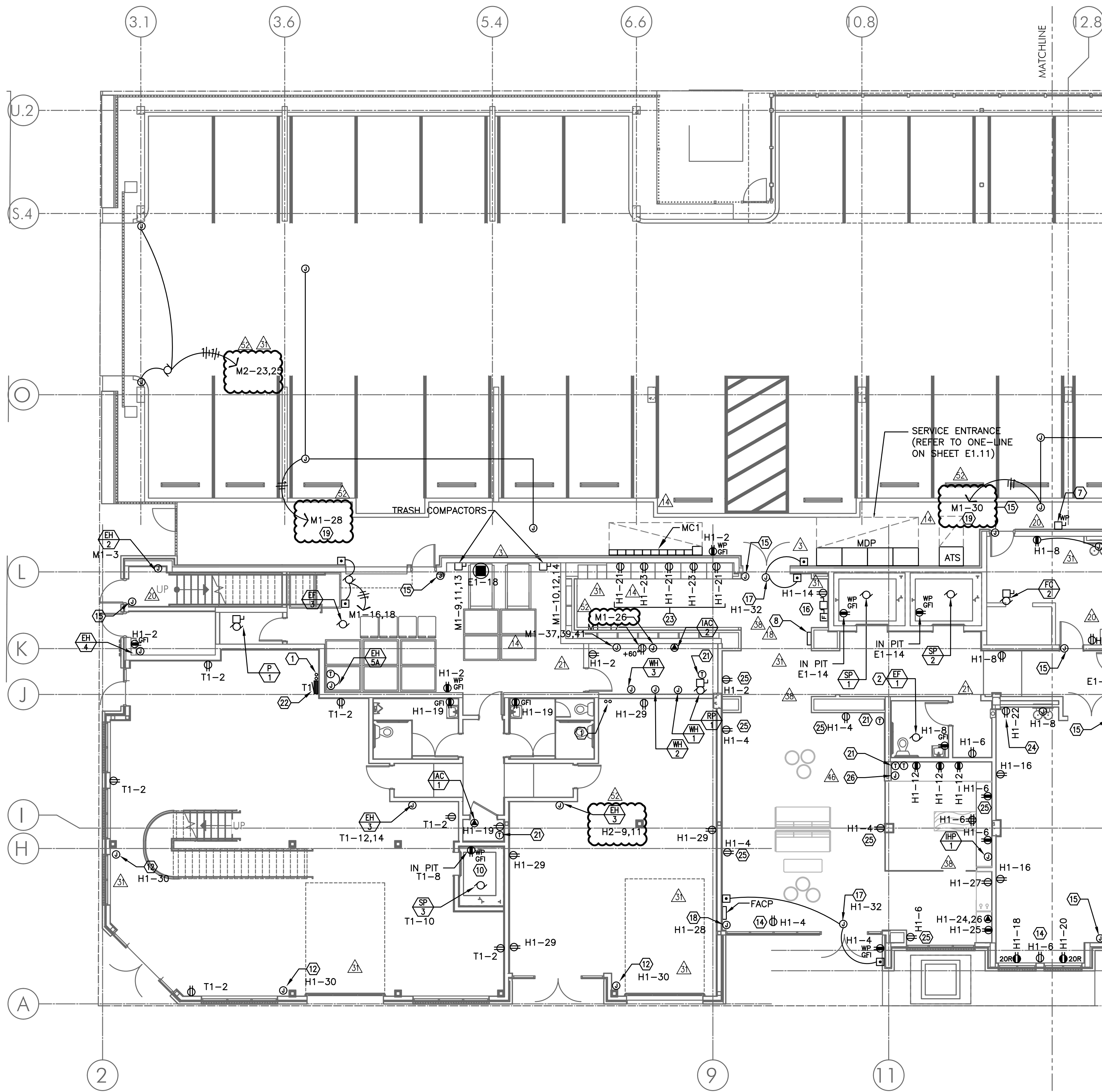
- ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- LIGHTING AND RECEPTACLES IN THE RETAIL LEASE SPACES SHALL BE PROVIDED WITH TEMPORARY CIRCUITS FROM THE HOUSE BRANCH PANELS AS INDICATED ON THE PLANS. AT SUCH TIME THAT EACH SPACE IS LEASED AND BUILT TO SUIT THE TENANT, THE TEMPORARY POWER CIRCUITS SHALL BE DISCONNECTED AND REMOVED, WITH THE BREAKERS NOTED AS "SPARE".
- THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- LOBBY LIGHTING TO BE HUNG AT VARYING HEIGHTS (BETWEEN 12'-0" AFF AND 8'-0" AFF) WITH FIXTURE OVERLAPPING. CONTRACTOR SHALL CONSULT WITH THE INTERIOR DESIGNER AND/OR ARCHITECT PRIOR TO ROUGH IN.
- REFER TO E400 SERIES SHEETS FOR TYPICAL APARTMENT UNIT POWER AND LIGHTING LAYOUT.
- REFER TO E1.21 FOR LUMINAIRE 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.
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KEYED NOTES:

- PROVIDE LOCKING SWITCH COVER.
- REFER TO BOTH LANDSCAPING AND DECORATOR'S PLAN SETS FOR EXACT LOCATION OF ALL LIGHT FIXTURES NOT SHOWN ON THIS PLAN SHEET. REFER TO SHEET E3.05 FOR ADDITIONAL CIRCUITING INFORMATION.
- LOW VOLTAGE TRANSFORMERS FOR COVE LIGHTING PER MANUFACTURER'S REQUIREMENTS. MOUNT DEVICES CLOSE TO CEILING OR ABOVE, IF PROVIDING ACCESS PANEL. WIRING TO BE #12 AWG TO MEET MANUFACTURER'S REQUIREMENTS FOR 5% VOLTAGE DROP. MAXIMUM WIRING RUN TO BE 80'-0".
- PROVIDE CEILING MOUNTED POWER CONNECTION TIED INTO THE TERRACE LIGHTING CIRCUIT FOR OWNER PROVIDED EXTERIOR PENDANT LIGHT FIXTURE. CONSULT ARCHITECT AND/OR INTERIOR DECORATOR FOR EXACT LOCATION, POWER REQUIREMENTS, MOUNTING HEIGHT AND LIGHTING CONTROL METHOD.
- COORDINATE COMMUNITY ROOM LIGHTING CONTROLS WITH INTERIOR DECORATOR FOR TYPE(S) AND LOCATION(S).
- ALL EXIT SIGNS AND ELEVATOR THRESHOLD LIGHTS SHALL BE CONSTANT 'ON'. TIE INTO CIRCUIT SERVING STAIRWELL #1.
- ALL EXIT SIGNS SHALL BE CONSTANT 'ON'. TIE INTO CIRCUIT SERVING STAIRWELL #2.
- TIE FIXTURE INTO "NORMAL POWER" CORRIDOR CIRCUIT, H1-5.



2 POWER PLAN - FIFTH FLOOR (SOUTH)
E2.05 SCALE: 1/8" = 1'-0"



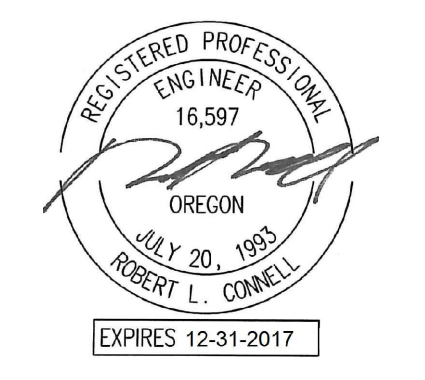
1 POWER PLAN - FIRST FLOOR (NORTH)
 E3.01 SCALE: 1/8" = 1'-0"

GENERAL POWER NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. 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. LIGHTING AND RECEPTACLES IN THE RETAIL LEASE SPACES SHALL BE PROVIDED WITH TEMPORARY CIRCUITS FROM THE HOUSE BRANCH PANELS AS INDICATED ON THE PLANS. AT SUCH TIME THAT EACH SPACE IS LEASED AND BUILT TO SUIT THE TENANT, THE TEMPORARY POWER CIRCUITS SHALL BE DISCONNECTED AND REMOVED, WITH THE BREAKERS NOTED AS "SPARE".
- E. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- F. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS.
- G. REFER TO INTERIOR DECORATOR AND ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATION(S) AND ELEVATIONS FOR RECEPTACLES & DEVICES LOCATED IN THE MAIN LOBBY AND LEASE OFFICE. OTHER DEVICES SHOWN ON THE ELECTRICAL PLANS NOT INDICATED ON THE DECORATOR'S OR ARCHITECT'S DRAWINGS, SHALL BE INSTALLED AT STANDARD MOUNTING HEIGHT AS INDICATED THE SYMBOL LIST.
- F. PER IFC 5704.2.3.2. TANKS MORE THAN 100 GALLONS (379 L) IN CAPACITY, WHICH ARE PERMANENTLY INSTALLED OR MOUNTED AND USED FOR THE STORAGE OF CLASS I, II OR III LIQUIDS, SHALL BEAR A LABEL AND PLACARD IDENTIFYING THE MATERIAL THEREIN. PLACARDS SHALL BE IN ACCORDANCE WITH NFPA 704.

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 CAPP OFF.
- 2. EXHAUST FAN TO BE TIED INTO LIGHTING CIRCUIT FOR THIS AREA.
- 3. 120V GENERATOR BLOCK HEATER. FED FROM PANEL EM.
- 4. 120V GENERATOR BATTERY CHARGER. FED FROM PANEL EM.
- 5. GENERATOR OUTPUT BREAKER AND CONTROL SECTION. FED FROM PANEL EM.
- 6. POWER AND CONTROL TO TRANSFER SWITCH AND REMOTE ANNUNCIATOR. SEE ONE-LINE DIAGRAM ON SHEET E1.11.
- 7. GENERATOR DISCONNECT. SEE ONE-LINE DIAGRAM ON SHEET E1.11.
- 8. GENERATOR REMOTE ANNUNCIATOR. FED FROM PANEL EM.
- 9. EXHAUST FAN TO BE TIED INTO LIGHTING CIRCUIT FOR THIS AREA. REFER TO DETAIL 3/E1.23 FOR TYPICAL BATHROOM SWITCHING DIAGRAM.
- 10. ELEVATOR FOR RETAIL LEASE SPACE TO BE PROVIDED WITH TEMPORARY POWER FROM THE HOUSE SEQUENCE UNTIL TENANT IMPROVEMENT FOR THE SPACE IS PERFORMED (UNDER SEPARATE CONTRACT). VERIFY EXACT POWER REQUIREMENTS WITH THE ELEVATOR MANUFACTURER PRIOR TO THE START OF ANY WORK AND CIRCUIT ACCORDINGLY.
- 11. CONCRETE BOLLARDS LOCATED FOR THE PROTECTION OF THE GENERATOR EQUIPMENT.
- 12. 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.
- 13. DIESEL GENERATOR TANK SHALL BE DOUBLE WALLED AND EQUIPPED WITH OVERFILL PROTECTION (AUTO SHUTOFF), 5 GALLON INFILL SPILL BUCKET WITH DRAIN BACK, 12FT ABOVE GRADE TANK FUME VENTING AND ONSITE PRESSURE TESTING PER CITY REQUIREMENTS.
- 14. RECEPTACLE LOCATED ABOVE WINDOW.
- 15. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL 'EM' FOR BUILDING ENTRY ACCESS CONTROLS.
- 16. VERIFY ELEVATOR EQUIPMENT LOCATION WITH ARCHITECT AND/OR ELEVATOR PROVIDER.
- 17. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR AUTOMATIC DOOR OPENERS.
- 18. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR BUILDING SIGN. CONSULT WITH SIGN INSTALLER FOR EXACT CONNECTION LOCATION(S) PRIOR TO ROUGH IN. CIRCUIT AS INDICATED VIA LIGHTING CONTROL PANEL.
- 19. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR HEAT TRACE (WHERE USED). CONSULT MECHANICAL PLANS TO VERIFY REQUIREMENTS AND LOCATIONS.
- 20. PROVIDE SWITCHED RECEPTACLES AND SWITCHES ABOVE COUNTER AS INDICATED, FOR OWNER PROVIDED SWING ARM LIGHT FIXTURE, AND TIE INTO LIGHTING CIRCUIT FOR THIS AREA.
- 21. PROVIDE WIRE CONNECTION FOR THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- 22. REFER TO ONE-LINE DIAGRAM KEY NOTE #7 ON SHEET E1.11 FOR ADDITIONAL INFORMATION.
- 23. PACKAGE CONCIERGE SYSTEM. MOUNT DUPLEX RECEPTACLES AT 76" AFF.
- 24. PROVIDE A TOTAL OF SEVEN 15A SINGLE OUTLET/USB PORT RECEPTACLE DEVICES WITHIN THE "CUBBIES" AS DIRECTED BY THE INTERIOR DECORATOR. DEVICES SHALL BE LEVITON T5631-2W OR APPROVED EQUAL. FINISH COLOR PER DECORATOR'S DIRECTION.
- 25. PROVIDE ONE 20A, 120V, 1P RECEPTACLE WITH USB PORT, MOUNTED AT 18" AFF AS INDICATED. CONSULT ARCHITECT AND/OR INTERIOR DESIGNER PLANS FOR EXACT LOCATION AND PRODUCT TYPE PRIOR TO ROUGH IN.
- 26. PROVIDE ROUGH IN FOR SYMETRIX SYSTEM CONTROL. CONSULT INTERIORS GROUP FOR EXACT LOCATION. COORDINATE WITH SYSTEM INSTALLER FOR EXACT REQUIREMENTS.



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.

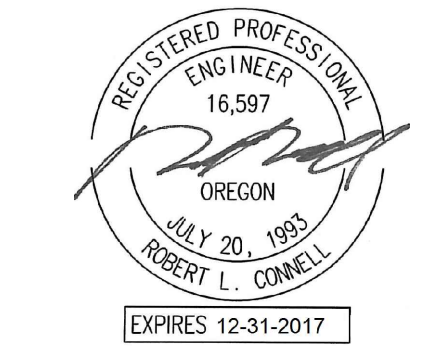
PROJECT # 20XX-XX
 DATE: 03-31-2016

REVISIONS	
3A	02.02.18 COORDINATION
3B	03.30.18 COORDINATION
3C	09.21.18 COORDINATION
3D	05.17.19 COORDINATION

**VANCOUVER AVE PHASE I
 MIXED USE BUILDING**
 3956 VANCOUVER AVE, PORTLAND, OR 97227

SHEET:
E3.01n

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PROJECT # 20XX-XX
DATE: 03-31-2016

REVISIONS	
07.14.17	COORDINATION
02.02.18	COORDINATION
08.24.18	COORDINATION
05.17.19	COORDINATION

**VANCOUVER AVE PHASE I
MIXED USE BUILDING**
3956 VANCOUVER AVE, PORTLAND, OR 97227

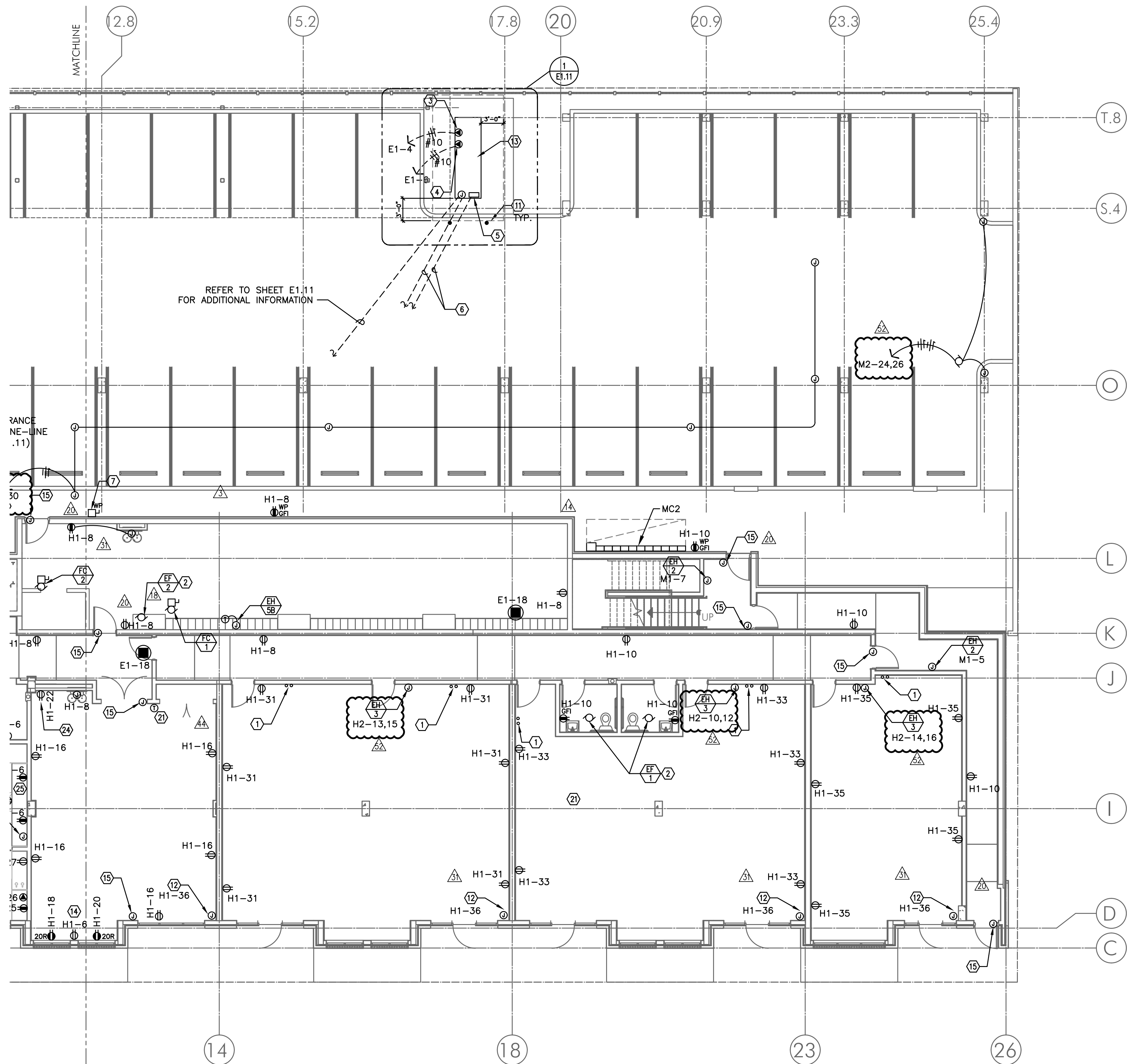
SHEET:
E3.01s

GENERAL POWER NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
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- G. REFER TO INTERIOR DECORATOR AND ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATION(S) AND ELEVATIONS FOR RECEPTACLES & DEVICES LOCATED IN THE MAIN LOBBY AND LEASE OFFICE. OTHER DEVICES SHOWN ON THE ELECTRICAL PLANS NOT INDICATED ON THE DECORATOR'S OR ARCHITECT'S DRAWINGS, SHALL BE INSTALLED AT STANDARD MOUNTING HEIGHT AS INDICATED THE SYMBOL LIST.
- F. PER IFC 5704.2.3.2, TANKS MORE THAN 100 GALLONS (379 L) IN CAPACITY, WHICH ARE PERMANENTLY INSTALLED OR MOUNTED AND USED FOR THE STORAGE OF CLASS I, II OR III LIQUIDS, SHALL BEAR A LABEL AND PLACARD IDENTIFYING THE MATERIAL THEREIN. PLACARDS SHALL BE IN ACCORDANCE WITH NFPA 704.

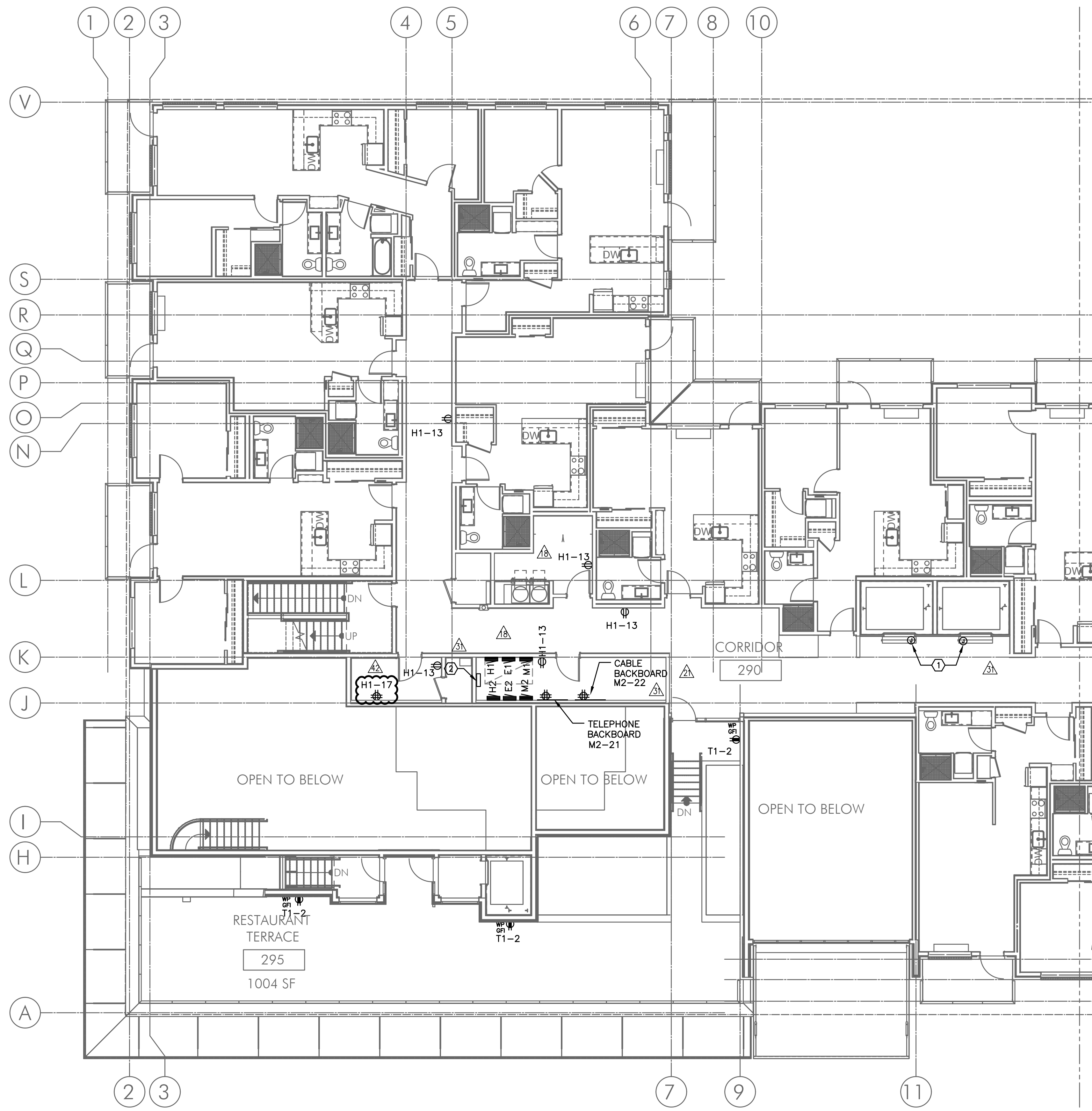
KEYED NOTES:

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- 2. EXHAUST FAN TO BE TIED INTO LIGHTING CIRCUIT FOR THIS AREA.
- 3. 120V GENERATOR BLOCK HEATER. FED FROM PANEL EM.
- 4. 120V GENERATOR BATTERY CHARGER. FED FROM PANEL EM.
- 5. GENERATOR OUTPUT BREAKER AND CONTROL SECTION. FED FROM PANEL EM.
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- 10. ELEVATOR FOR RETAIL LEASE SPACE TO BE PROVIDED WITH TEMPORARY POWER FROM THE HOUSE SERVICE UNTIL TENANT IMPROVEMENT FOR THE SPACE IS PERFORMED (UNDER SEPARATE CONTRACT). VERIFY EXACT POWER REQUIREMENTS WITH THE ELEVATOR MANUFACTURER PRIOR TO THE START OF ANY WORK AND CIRCUIT ACCORDINGLY.
- 11. CONCRETE BOLLARDS LOCATED FOR THE PROTECTION OF THE GENERATOR EQUIPMENT.
- 12. 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.
- 13. DIESEL GENERATOR TANK SHALL BE DOUBLE WALLED AND EQUIPPED WITH OVERFILL PROTECTION (AUTO SHUTOFF), 5 GALLON INFILL SPILL BUCKET WITH DRAIN BACK, 12FT ABOVE GRADE TANK FUME VENTING AND ONSITE PRESSURE TESTING PER CITY REQUIREMENTS.
- 14. RECEPTACLE LOCATED ABOVE WINDOW.
- 15. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL 'EM' FOR BUILDING ENTRY ACCESS CONTROLS.
- 16. VERIFY ELEVATOR EQUIPMENT LOCATION WITH ARCHITECT AND/OR ELEVATOR PROVIDER.
- 17. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR AUTOMATIC DOOR OPENERS.
- 18. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR BUILDING SIGN. CONSULT WITH SIGN INSTALLER FOR EXACT CONNECTION LOCATION(S) PRIOR TO ROUGH IN. CIRCUIT AS INDICATED VIA LIGHTING CONTROL PANEL.
- 19. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR HEAT TRACE (WHERE USED). CONSULT MECHANICAL PLANS TO VERIFY REQUIREMENTS AND LOCATIONS.
- 20. PROVIDE SWITCHED RECEPTACLES AND SWITCHES ABOVE COUNTER AS INDICATED, FOR OWNER PROVIDED SWING ARM LIGHT FIXTURE, AND TIE INTO LIGHTING CIRCUIT FOR THIS AREA.
- 21. PROVIDE WIRE CONNECTION FOR THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- 22. REFER TO ONE-LINE DIAGRAM KEY NOTE #7 ON SHEET E1.11 FOR ADDITIONAL INFORMATION.
- 23. PACKAGE CONCIERGE SYSTEM. MOUNT DUPLEX RECEPTACLES AT 76" AFF.
- 24. PROVIDE A TOTAL OF SEVEN 15A SINGLE OUTLET/USB PORT RECEPTACLE DEVICES WITHIN THE "CUBBIES" AS DIRECTED BY THE INTERIOR DECORATOR. DEVICES SHALL BE LEVITON T5631-2W OR APPROVED EQUAL. FINISH COLOR PER DECORATOR'S DIRECTION.
- 25. PROVIDE ONE 20A, 120V, 1P RECEPTACLE WITH USB PORT, MOUNTED AT 18" AFF AS INDICATED. CONSULT ARCHITECT AND/OR INTERIOR DESIGNER PLANS FOR EXACT LOCATION AND PRODUCT TYPE PRIOR TO ROUGH IN.
- 26. PROVIDE ROUGH IN FOR SYMETRIX SYSTEM CONTROL. CONSULT INTERIORS GROUP FOR EXACT LOCATION. COORDINATE WITH SYSTEM INSTALLER FOR EXACT REQUIREMENTS.



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

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CONTACT: DENISE TAYLOR



GENERAL POWER NOTES:

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- D. ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL PLANS AND COORDINATE WITH THE MECHANICAL INSTALLER FOR ALL ELECTRICAL POWER AND CONNECTION REQUIREMENTS PRIOR TO BIDDING & ROUGH IN.
- E. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E1.12.
- F. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- G. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS.

KEYED NOTES:

- 1. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM THE EMERGENCY PANEL "E2" 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.
- 2. LIGHTING CONTROL PANEL. FED FROM PANEL EM.



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PROJECT # 20XX-XX
DATE: 03-31-2016

REVISIONS	
06.30.17	COORDINATION
07.21.17	COORDINATION
02.02.18	COORDINATION
06.22.18	COORDINATION

**VANCOUVER AVE PHASE I
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1 POWER PLAN - SECOND FLOOR (NORTH)
E3.02 SCALE: 1/8" = 1'-0"

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CONTACT: DENISE TAYLOR

SHEET:
E3.02n



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PROJECT # 20XX-XX
DATE: 03-31-2016

REVISIONS

**VANCOUVER AVE PHASE I
MIXED USE BUILDING**
3956 VANCOUVER AVE, PORTLAND, OR 97227

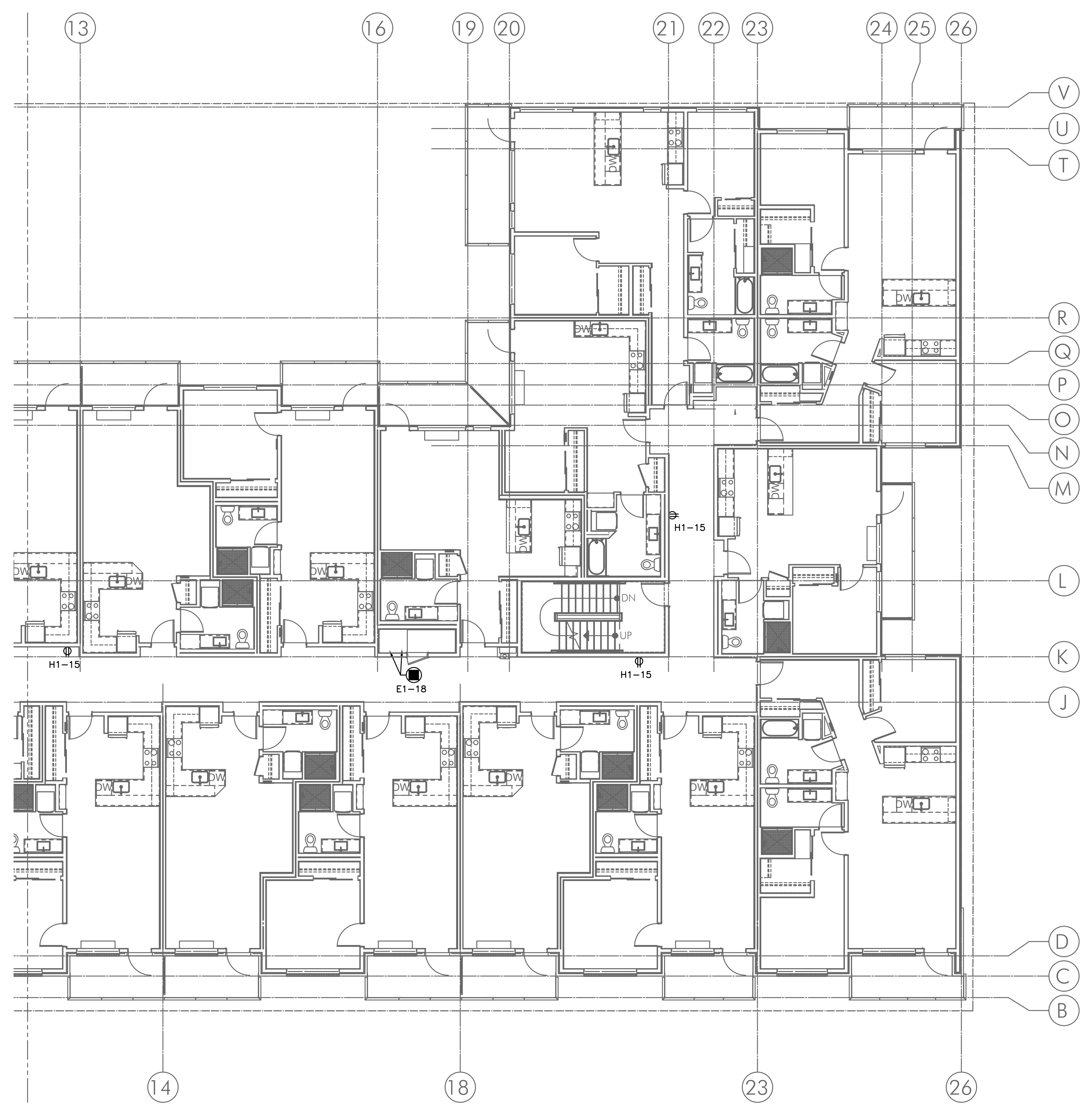
SHEET:
E3.02s

GENERAL POWER NOTES:

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- G. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS.

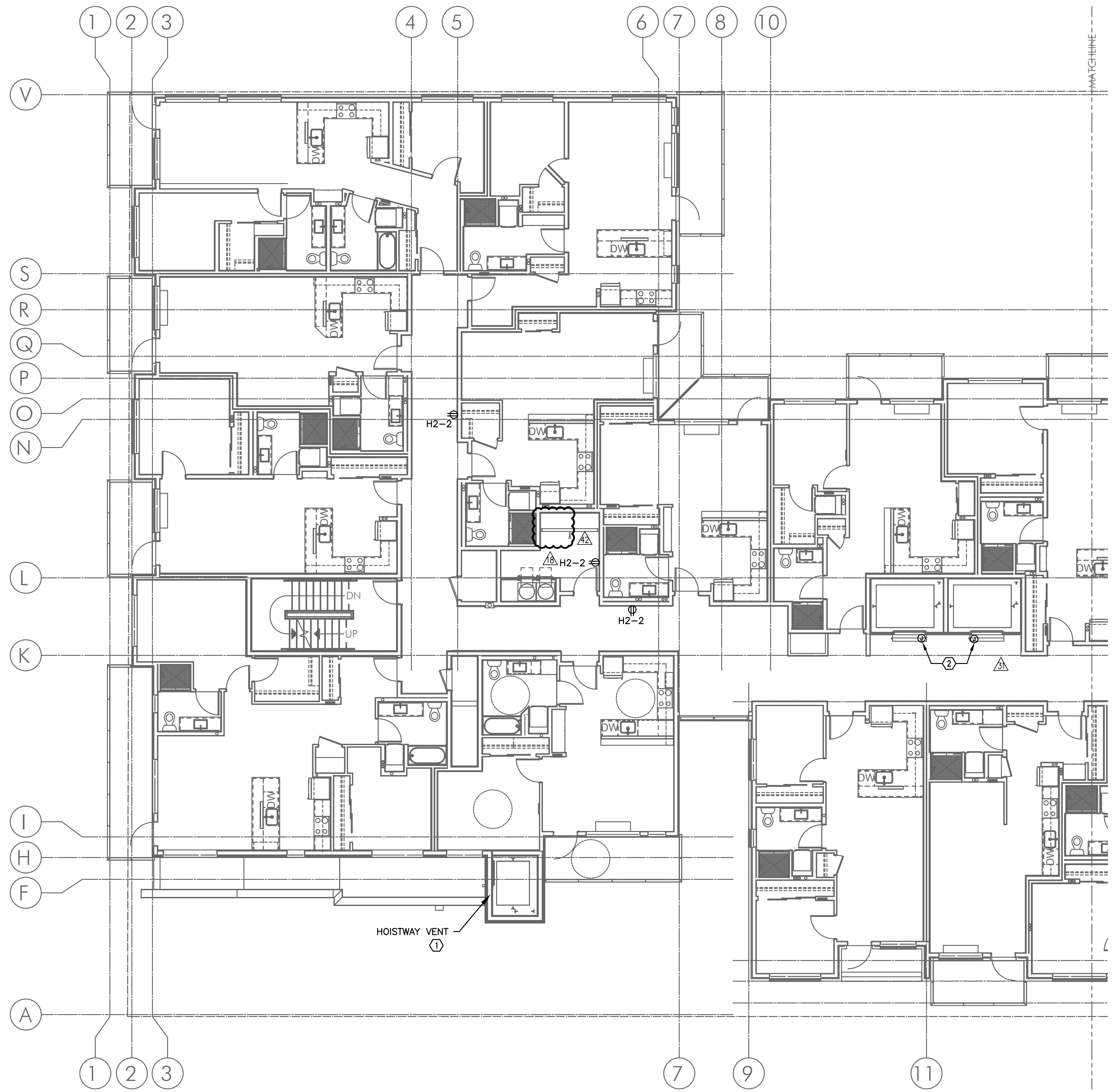
KEYED NOTES:

- 1. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM THE EMERGENCY PANEL "E2" 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.
- 2. LIGHTING CONTROL PANEL. FED FROM PANEL EM.



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

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CONTACT: DENISE TAYLOR



GENERAL POWER NOTES:

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PROJECT # 20XX-XX
DATE: 03-31-2016

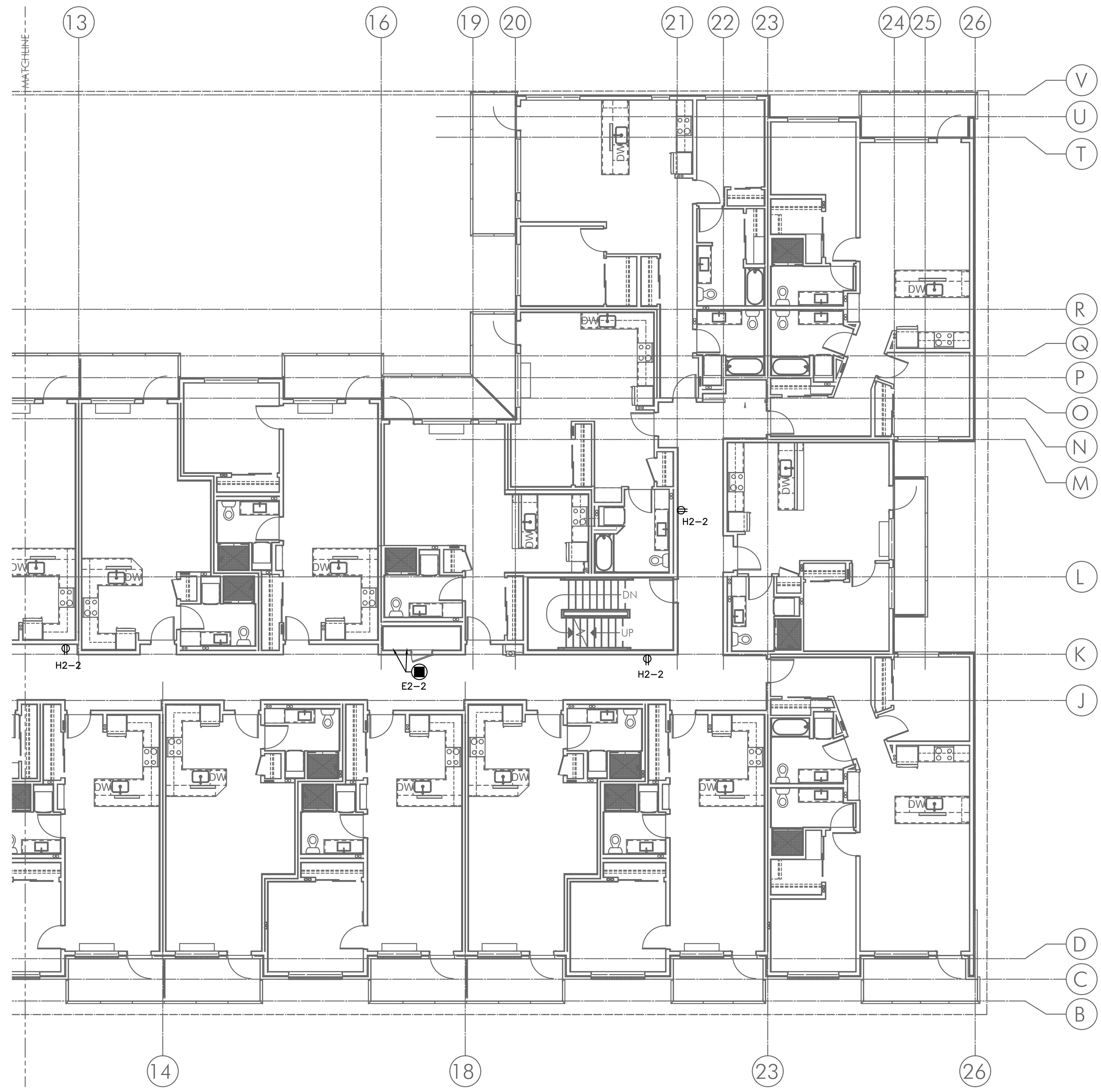
REVISIONS	
1	06.30.17 COORDINATION
2	02.02.18 COORDINATION
3	06.22.18 COORDINATION

**VANCOUVER AVE PHASE I
MIXED USE BUILDING**
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1 POWER PLAN - THIRD FLOOR (NORTH)
E3.03 SCALE: 1/8" = 1'-0"

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SHEET:
E3.03n



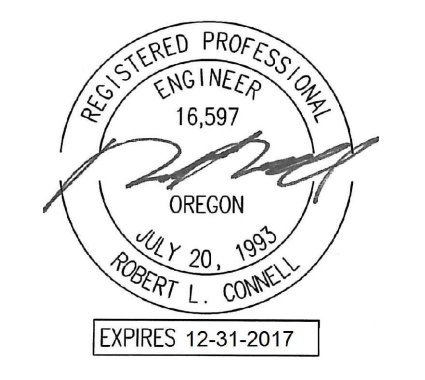
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KEYED NOTES:

- 1. CONSULT MECHANICAL PLANS FOR POWER REQUIREMENTS PRIOR TO ROUGH IN AND CIRCUIT TO EMERGENCY PANEL 'E2'.
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2 POWER PLAN - THIRD FLOOR (SOUTH)
E3.03 SCALE: 1/8" = 1'-0"



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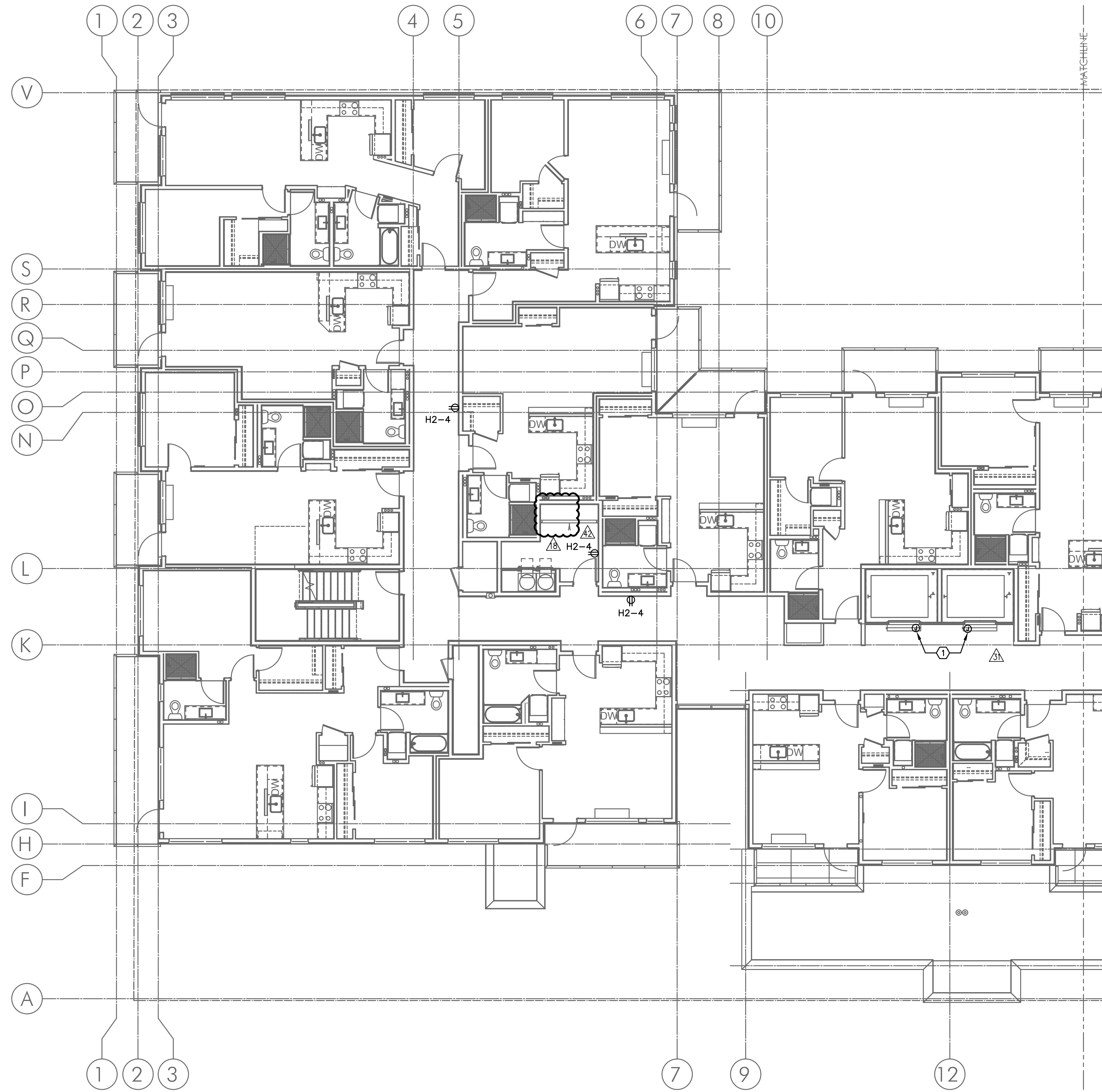
PROJECT # 20XX-XX
 DATE: 03-31-2016

REVISIONS

**VANCOUVER AVE PHASE I
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SHEET:
E3.03s



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

GENERAL POWER NOTES:

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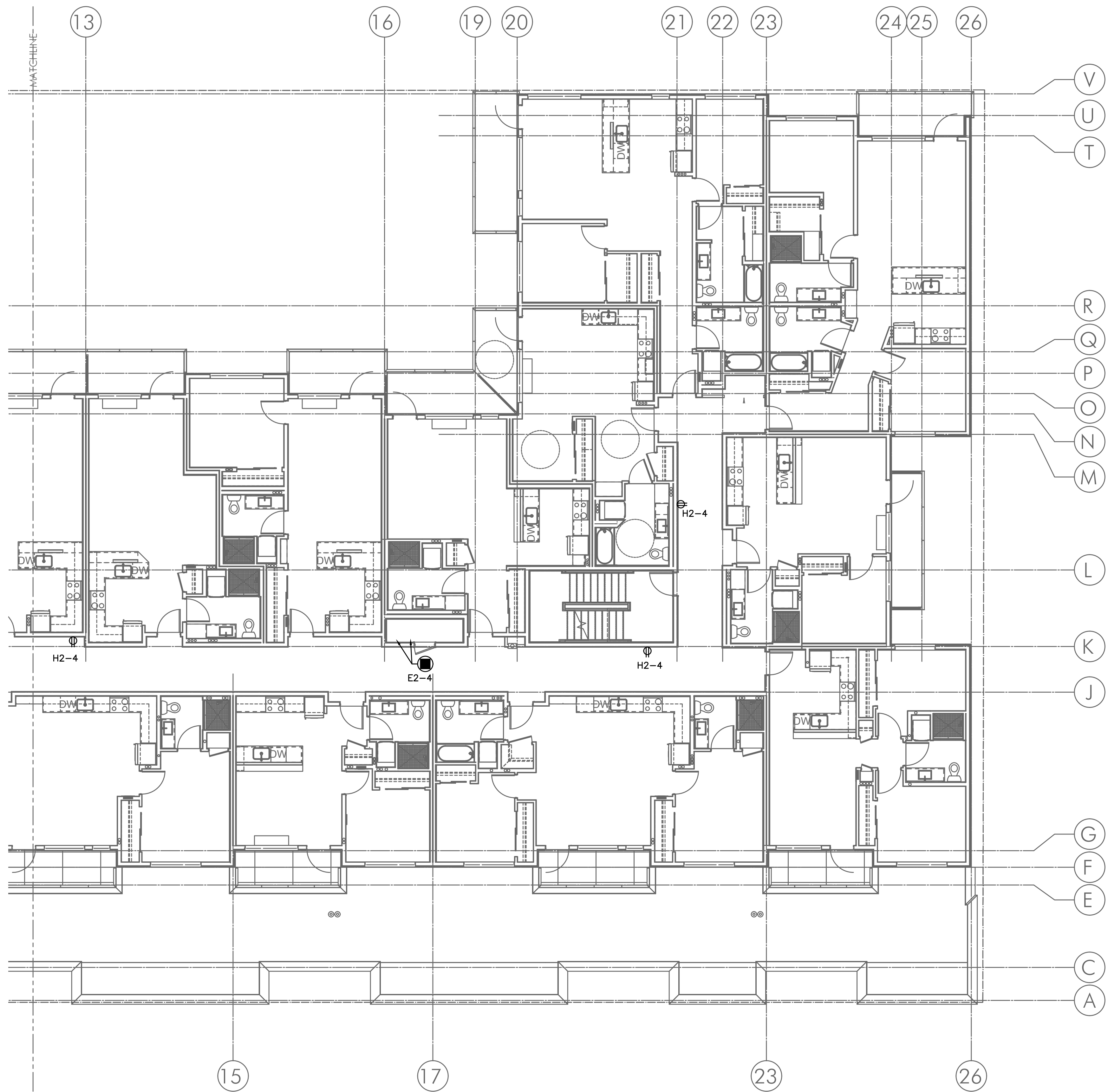
PROJECT # 20XX-XX
 DATE: 03-31-2016

REVISIONS	
06.30.17	COORDINATION
02.02.18	COORDINATION
06.22.18	COORDINATION

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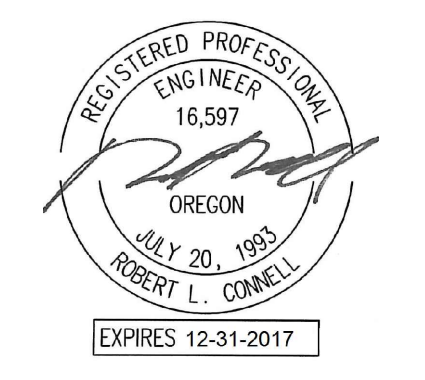
2 POWER PLAN - FOURTH FLOOR (SOUTH)
 E3.04 SCALE: 1/8" = 1'-0"

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KEYED NOTES:

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PROJECT # 20XX-XX
 DATE: 03-31-2016

REVISIONS

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 MIXED USE BUILDING**
 3956 VANCOUVER AVE, PORTLAND, OR 97227



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PROJECT # 20XX-XX
DATE: 03-31-2016

REVISIONS

03.30.18	COORDINATION
04.20.18	COORDINATION
06.22.18	COORDINATION
05.10.19	COORDINATION

**VANCOUVER AVE PHASE I
MIXED USE BUILDING**
3956 VANCOUVER AVE, PORTLAND, OR 97227

SHEET:
E3.05n

GENERAL POWER NOTES:

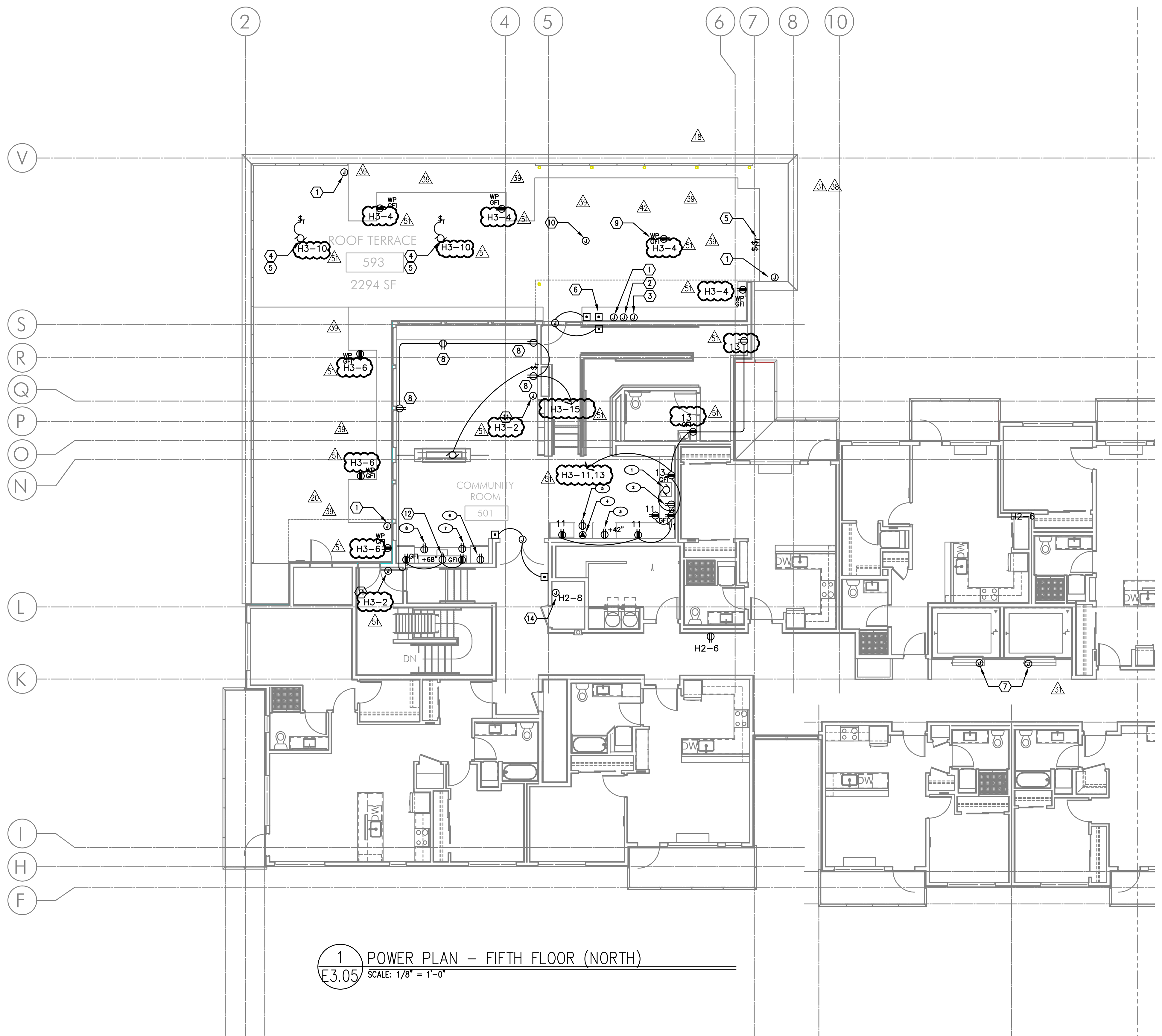
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KEYED NOTES:

- ELECTRICAL CONTRACTOR TO COORDINATE WITH LANDSCAPE PROVIDER FOR EXACT LOCATION OF POWER CONNECTIONS TO LOW VOLTAGE LIGHTING. LANDSCAPE LIGHTING SHALL BE CIRCUITED VIA CIRCUIT H3-3 AS INDICATED ON PLANS.
- PROVIDE WEATHER PROOF J-BOX FOR ADDITIONAL/FUTURE LIGHTING TIED INTO LIGHTING CIRCUIT H3-3.
- PROVIDE WEATHER PROOF J-BOX FOR FUTURE DEVICES AND CIRCUIT TO SPARE CIRCUIT IN PANEL 'H3'.
- 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.
- 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 'H3'. SEE DETAIL 3/E1.22 FOR EMERGENCY SHUFF-OFF DIAGRAM. COORDINATE LOCATION WITH LANDSCAPE CONTRACTOR.
- PROVIDE EMERGENCY SHUTOFF CONTROLS FOR GAS APPLIANCES LOCATED ON TERRACE. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. CIRCUIT FROM PANEL 'E2'. SEE DETAIL 3/E1.22 FOR EMERGENCY SHUFF-OFF DIAGRAM. PROVIDE WEATHER PROOF LABEL EACH BUTTON WITH DEVICE IT CONTROLS.
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- PROVIDE ONE 20A, 120V, 1P RECEPTACLE WITH USB PORT, MOUNTED AT 18" AFF AS INDICATED. CONSULT ARCHITECT AND/OR INTERIOR DESIGNER PLANS FOR EXACT LOCATION AND PRODUCT TYPE PRIOR TO ROUGH IN.
- COORDINATE RECEPTACLE LOCATION AT WORK COUNTER WITH FURNITURE PROVIDER/INSTALLER. PROVIDE ONE COUNTER HEIGHT 20A, WEATHERPROOF GFCI DUPLEX RECEPTACLE AT ISLAND COUNTER. TIE INTO NEAREST GENERAL PURPOSE RECEPTACLE CIRCUIT. CONSULT ARCHITECT AND/OR INTERIOR DECORATOR FOR EXACT LOCATION AND FINISH REQUIREMENTS.
- PROVIDE POWER CONNECTION AT TERRACE CANOPY FOR PENDANT FIXTURE BY OTHERS. CONSULT LANDSCAPE & DECORATOR PLANS FOR EXACT LOCATION AND QUANTITY. TIE INTO LIGHTING CIRCUIT H2-13. UNLESS OTHERWISE SPECIFIED, FIXTURES SHALL BE CONTROLLED VIA LCP & PHOTOCCELL.
- PROVIDE ROUGH IN FOR A/V SYSTEM AS REQUIRED. CONSULT INTERIORS GROUP FOR EXACT LOCATION. COORDINATE WITH SYSTEM INSTALLER FOR EXACT REQUIREMENTS.
- COORDINATE WITH INTERIORS GROUP FOR EXACT RECEPTACLE LOCATION AND MOUNTING HEIGHT FOR THE WALL MOUNT TV.
- PROVIDE ROUGH IN FOR SYMETRIX SYSTEM CONTROL. CONSULT INTERIORS GROUP FOR EXACT LOCATION. COORDINATE WITH SYSTEM INSTALLER FOR EXACT REQUIREMENTS.
- PROVIDE ONE DEDICATED 20A CIRCUIT WITH #6 GROUND AND FIRE RATED BACKBOARD. CONSULT INTERIORS GROUP FOR EXACT ELECTRICAL REQUIREMENTS, LOCATION & MOUNTING HEIGHT PRIOR TO ROUGH IN. CIRCUIT AS INDICATED.

APPLIANCE SCHEDULE

- DISPOSAL: 120V, 1P, CKT H3-20
- DISHWASHER: 120V, 1P, 12A, CKT H3-18
- REFRIGERATOR: 120V, 1P, 10A, CKT H3-20
- WALL OVEN: 208V, 1P, 30A, CKT H3-10,12
- MICROWAVE OVEN: 120V, 1P, 20A, CKT H3-22
- MOBILE KEG COOLER: 120V, 1P, 15A, CKT H3-21
- U.C. FRIDGE: 120V, 1P, 2.3A, CKT H3-19 (PC)
- U.C. ICE MACHINE: 120V, 1P, 3.4A, CKT H3-19 (PC)



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

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PROJECT # 20XX-XX
DATE: 03-31-2016

REVISIONS

NO.	DESCRIPTION

**VANCOUVER AVE PHASE I
MIXED USE BUILDING**
3956 VANCOUVER AVE, PORTLAND, OR 97227

SHEET:

E3.05s

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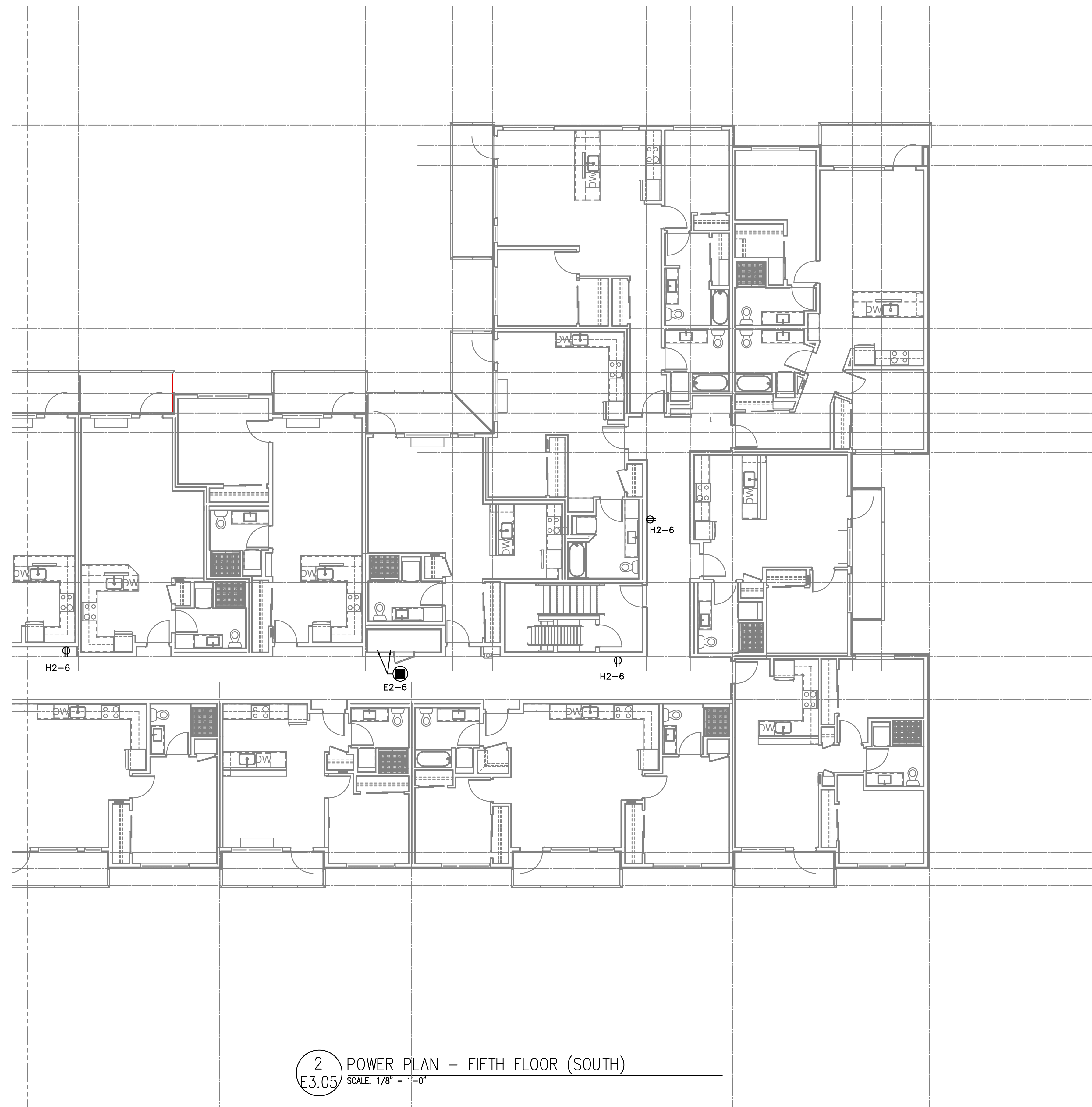
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- PROVIDE ROUGH IN FOR SYMETRIX SYSTEM CONTROL. CONSULT INTERIORS GROUP FOR EXACT LOCATION. COORDINATE WITH SYSTEM INSTALLER FOR E REQUIREMENTS.
- PROVIDE ONE DEDICATED 20A CIRCUIT WITH #6 GROUND AND FIRE RATED BACKBOARD. CONSULT INTERIORS GROUP FOR EXACT ELECTRICAL REQUIREMENTS, LOCATION & MOUNTING HEIGHT PRIOR TO ROUGH IN. CIRCUIT AS INDICATED.

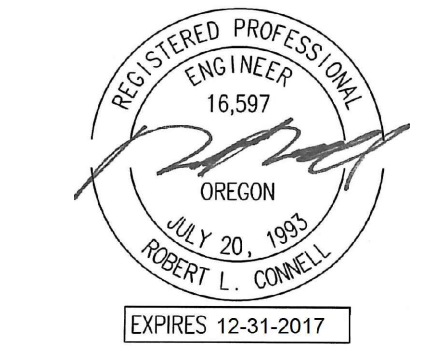
APPLIANCE SCHEDULE

- DISPOSAL: 120V, 1P, CKT H3-20
- DISHWASHER: 120V, 1P, 12A, CKT H3-18
- REFRIGERATOR: 120V, 1P, 10A, CKT H3-20
- WALL OVEN: 208V, 1P, 30A, CKT H3-10,12
- MICROWAVE OVEN: 120V, 1P, 20A, CKT H3-22
- MOBILE KEG COOLER: 120V, 1P, 15A, CKT H3-21
- U.C. FRIDGE: 120V, 1P, 2.3A, CKT H3-19 (PC)
- U.C. ICE MACHINE: 120V, 1P, 3.4A, CKT H3-19

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



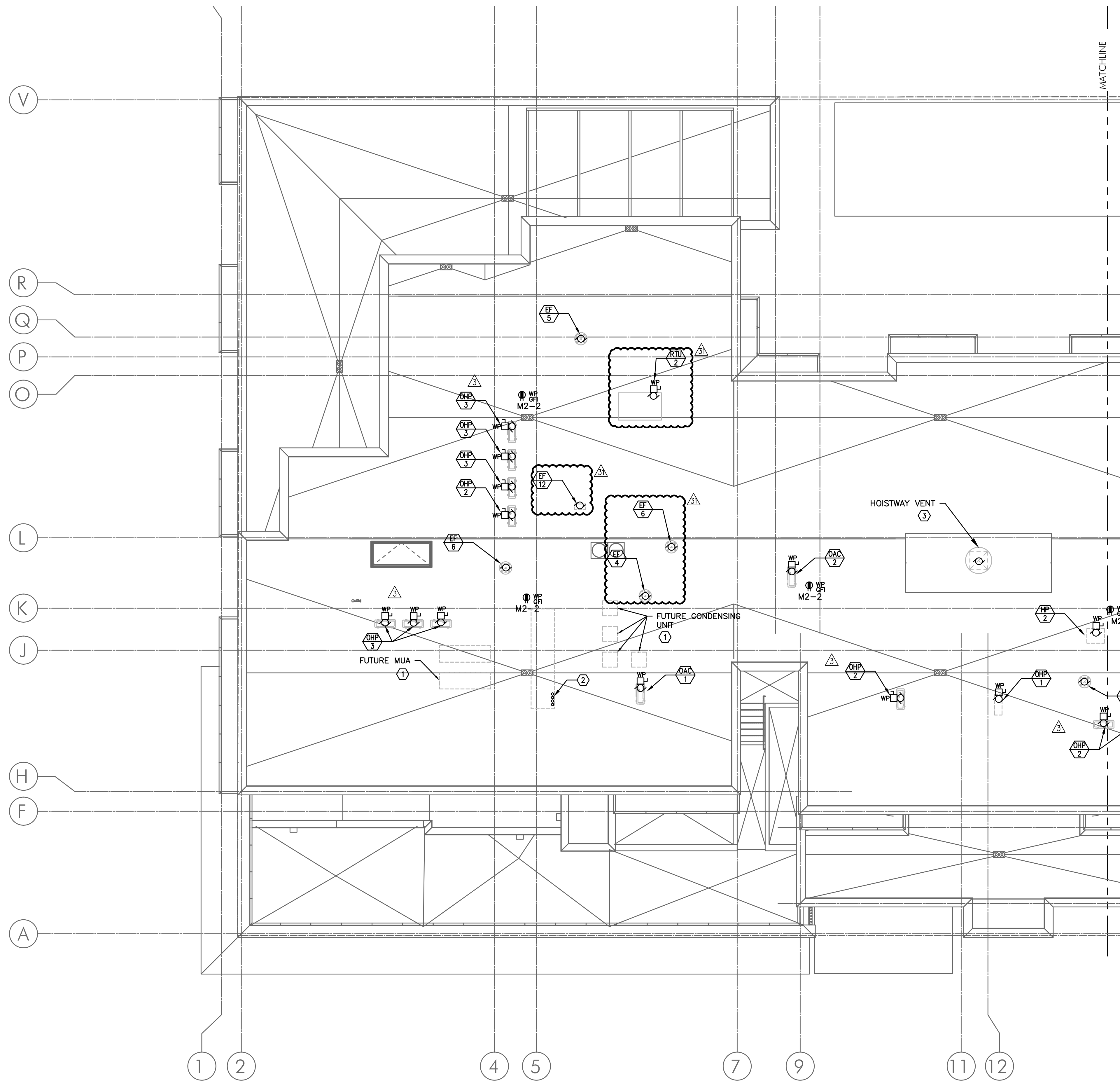
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PROJECT # 20XX-XX DATE: 03-31-2016

REVISIONS	
Δ	09.09.16 COORDINATION
Δ	02.02.18 COORDINATION

VANCOUVER AVE PHASE I MIXED USE BUILDING 3956 VANCOUVER AVE, PORTLAND, OR 97227

SHEET: E3.06n



GENERAL POWER NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. 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. ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL PLANS AND COORDINATE WITH THE MECHANICAL INSTALLER FOR ALL ELECTRICAL POWER AND CONNECTION REQUIREMENTS PRIOR TO BIDDING & ROUGH IN.
- E. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E1.12.
- F. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- G. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS.
- H. ELECTRICAL CONTRACTOR SHALL CONSULT MECHANICAL PLANS FOR THE PURPOSE OF COORDINATING APARTMENT DESIGNATION(S) OF ROOF MOUNTED HEAT PUMP UNITS.

KEYED NOTES:

- 1. ROUTE (1) EMPTY 2" CONDUIT WITH PULL STRING, FROM RETAIL LEASE SPACE FOR FUTURE ROOFTOP EQUIPMENT, AT EACH LOCATION INDICATED AND CAP OFF.
- 2. ROUTE (4) EMPTY 4" CONDUIT WITH PULL STRING, IN SHAFT, FROM RETAIL LEASE SPACE FOR FUTURE ROOFTOP EQUIPMENT, AT EACH LOCATION INDICATED AND CAP OFF.
- 3. CONSULT MECHANICAL PLANS FOR POWER REQUIREMENTS PRIOR TO ROUGH IN AND CIRCUIT TO EMERGENCY PANEL 'E2'.

1 ROOF POWER PLAN - (NORTH) SCALE: 1/8" = 1'-0"

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PROJECT # 20XX-XX DATE: 03-31-2016

Table with 2 columns: REVISIONS, and empty rows for revision details.

VANCOUVER AVE PHASE I MIXED USE BUILDING 3956 VANCOUVER AVE, PORTLAND, OR 97227

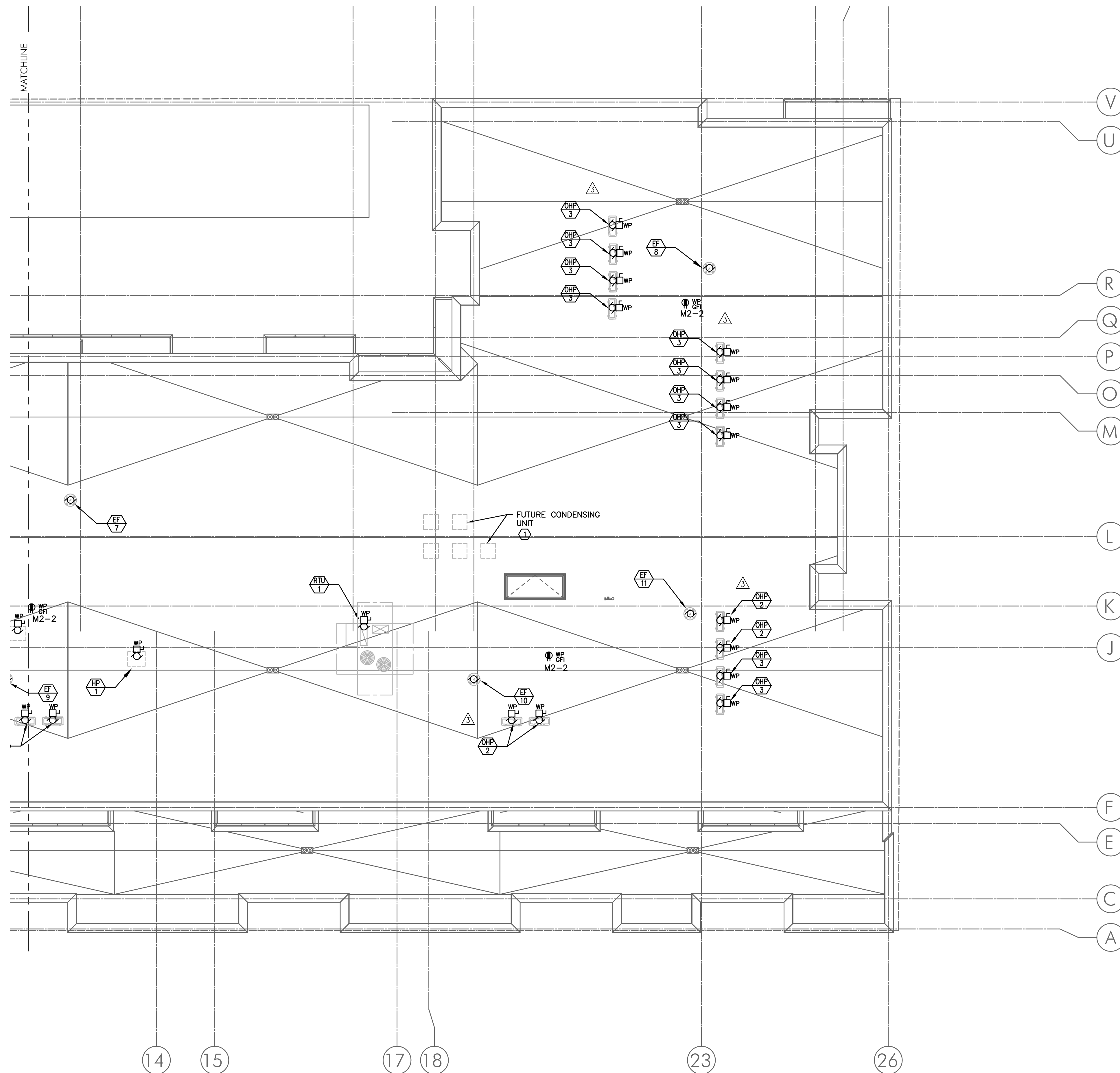
SHEET: E3.06s

GENERAL POWER NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS... B. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR... C. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS... D. ELECTRICAL CONTRACTOR SHALL REFER TO MECHANICAL PLANS AND COORDINATE WITH THE MECHANICAL INSTALLER... E. REFER TO MECHANICAL EQUIPMENT SCHEDULE ON SHEET E1.12... F. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES... G. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE APARTMENT UNITS... H. ELECTRICAL CONTRACTOR SHALL CONSULT MECHANICAL PLANS FOR THE PURPOSE OF COORDINATING APARTMENT DESIGNATION(S) OF ROOF MOUNTED HEAT PUMP UNITS.

KEYED NOTES:

- 1. ROUTE (1) EMPTY 2" CONDUIT WITH PULL STRING, FROM RETAIL LEASE SPACE FOR FUTURE ROOFTOP EQUIPMENT, AT EACH LOCATION INDICATED AND CAP OFF. 2. ROUTE (4) EMPTY 4" CONDUIT WITH PULL STRING, IN SHAFT, FROM RETAIL LEASE SPACE FOR FUTURE ROOFTOP EQUIPMENT, AT EACH LOCATION INDICATED AND CAP OFF. 3. CONSULT MECHANICAL PLANS FOR POWER REQUIREMENTS PRIOR TO ROUGH IN AND CIRCUIT TO EMERGENCY PANEL 'E2'.



2 ROOF POWER PLAN - (SOUTH) SCALE: 1/8" = 1'-0"

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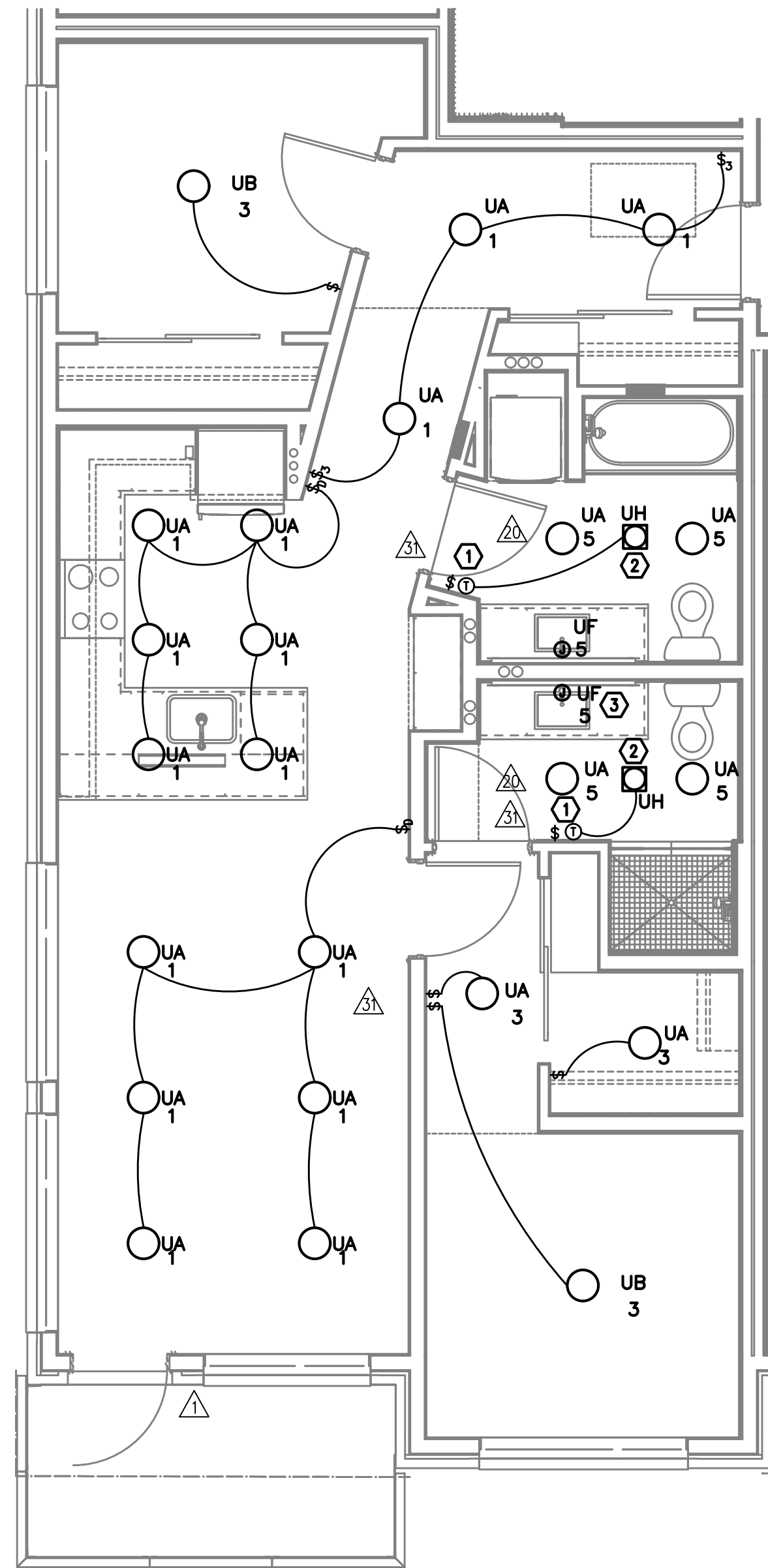
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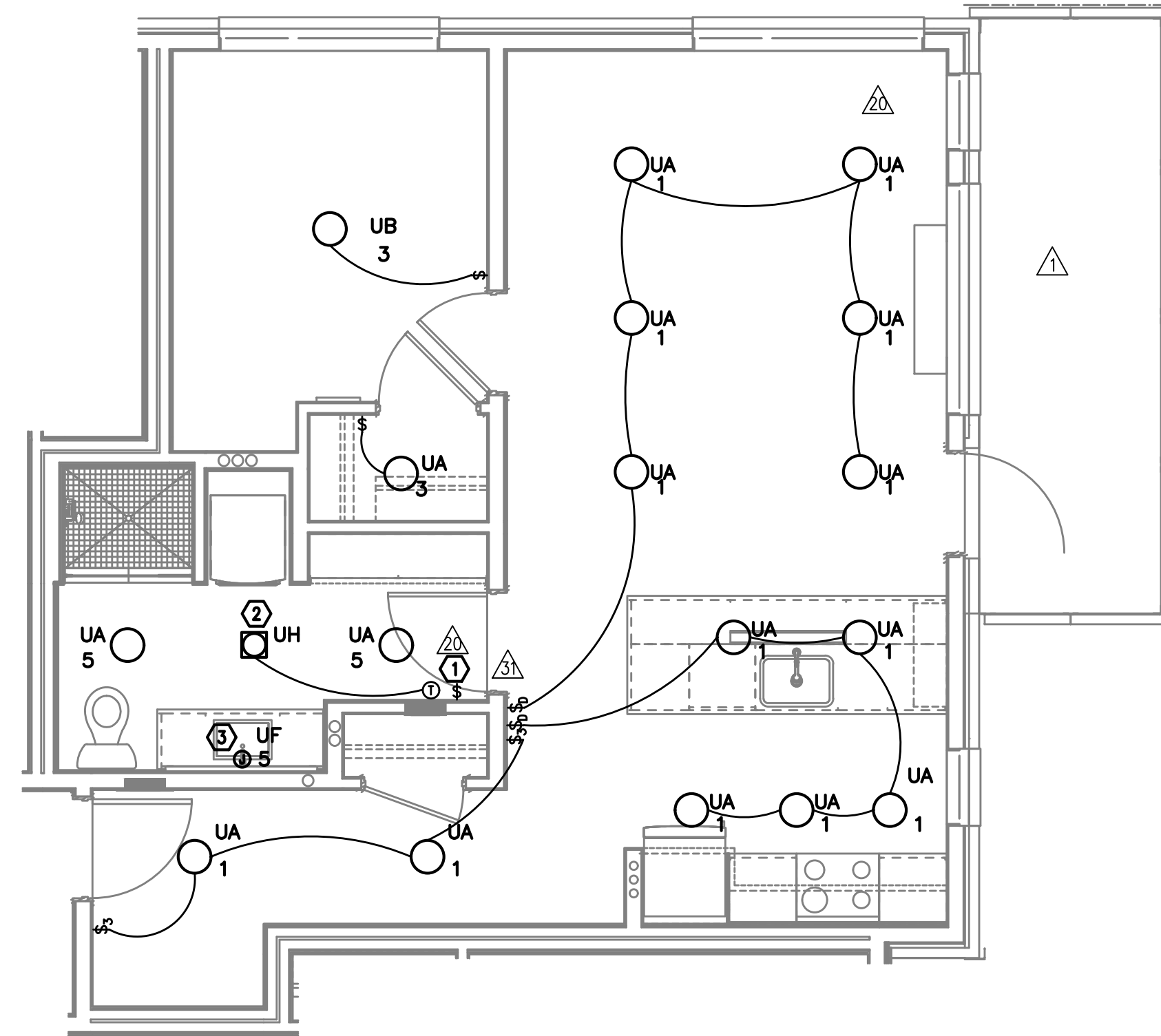
REVISIONS	
△	06.15.16 COORDINATION
△	06.30.17 COORDINATION
△	07.14.17 COORDINATION
△	02.02.18 COORDINATION

**VANCOUVER AVE PHASE I
MIXED USE BUILDING**
3956 VANCOUVER AVE, PORTLAND, OR 97227

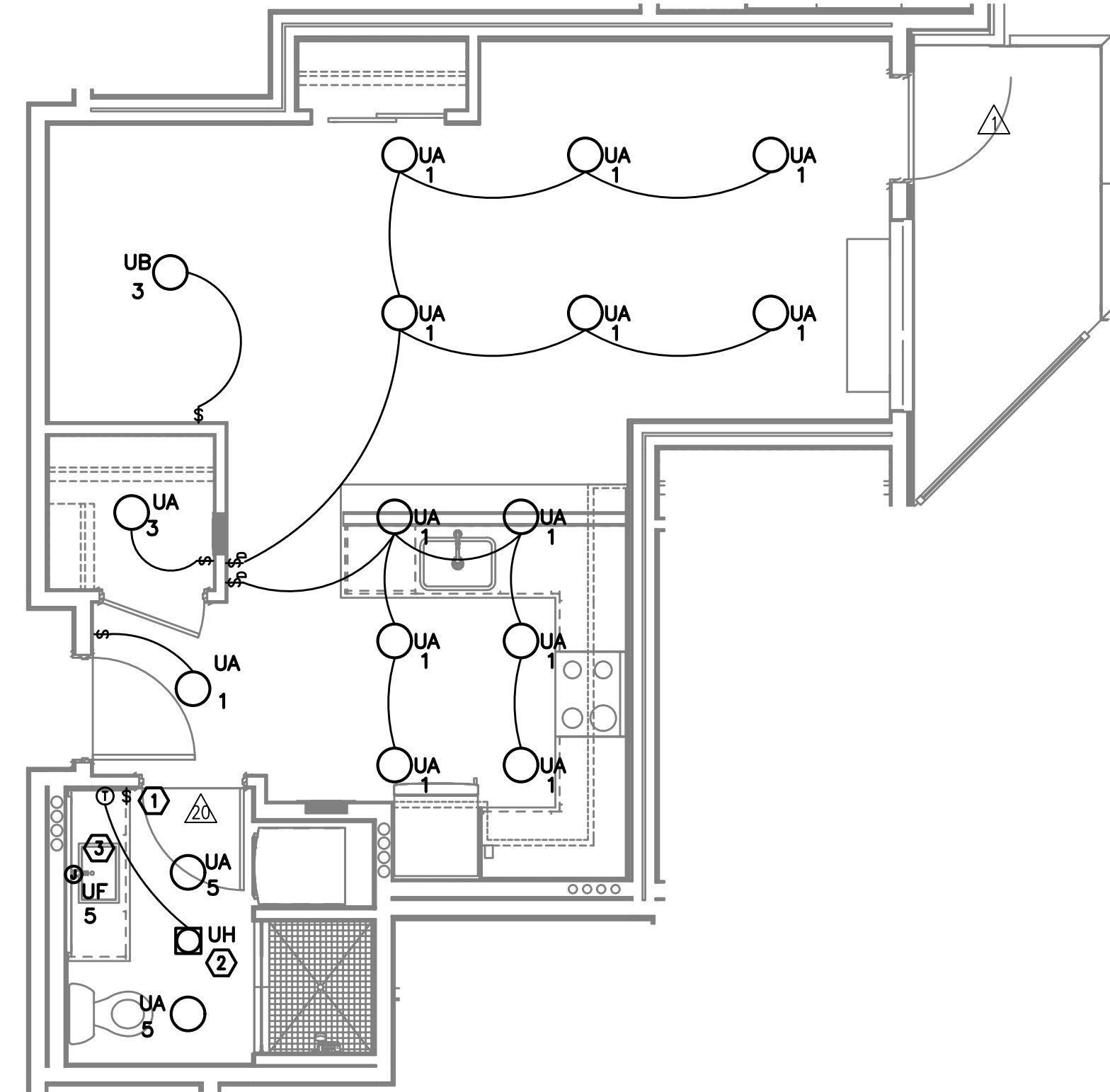
SHEET:
E4.01



△ 1 UNIT TYPE 'A' - LIGHTING
E4.01 SCALE: 1/4" = 1'-0"



△ 2 UNIT TYPE 'B' LOFT - LIGHTING
E4.01 SCALE: 1/4" = 1'-0"



△ 3 UNIT TYPE 'C' - LIGHTING
E4.01 SCALE: 1/4" = 1'-0"

GENERAL NOTES (APARTMENT UNITS):

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

KEYED NOTES (APARTMENT UNITS):

- △ 1 REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.22.
- △ 2 PROVIDE ONE DEDICATED 20A CIRCUIT FOR BATHROOM CEILING HEATER FROM TENANT LOADCENTER. PROVIDE THERMOSTAT AS INDICATED.
- △ 3 PROVIDE ONE 15A RECEPTACLE, MOUNTED ABOVE VANITY AND TIED INTO THE BATHROOM LIGHT SWITCH FOR BACK-LIT MIRROR. REFER TO MANUFACTURER'S INSTALLATION GUIDE AND COORDINATE EXACT MOUNTING HEIGHT WITH THE INTERIOR DECORATOR AND/OR THE OWNER'S REPRESENTATIVE PRIOR TO ROUGH IN.

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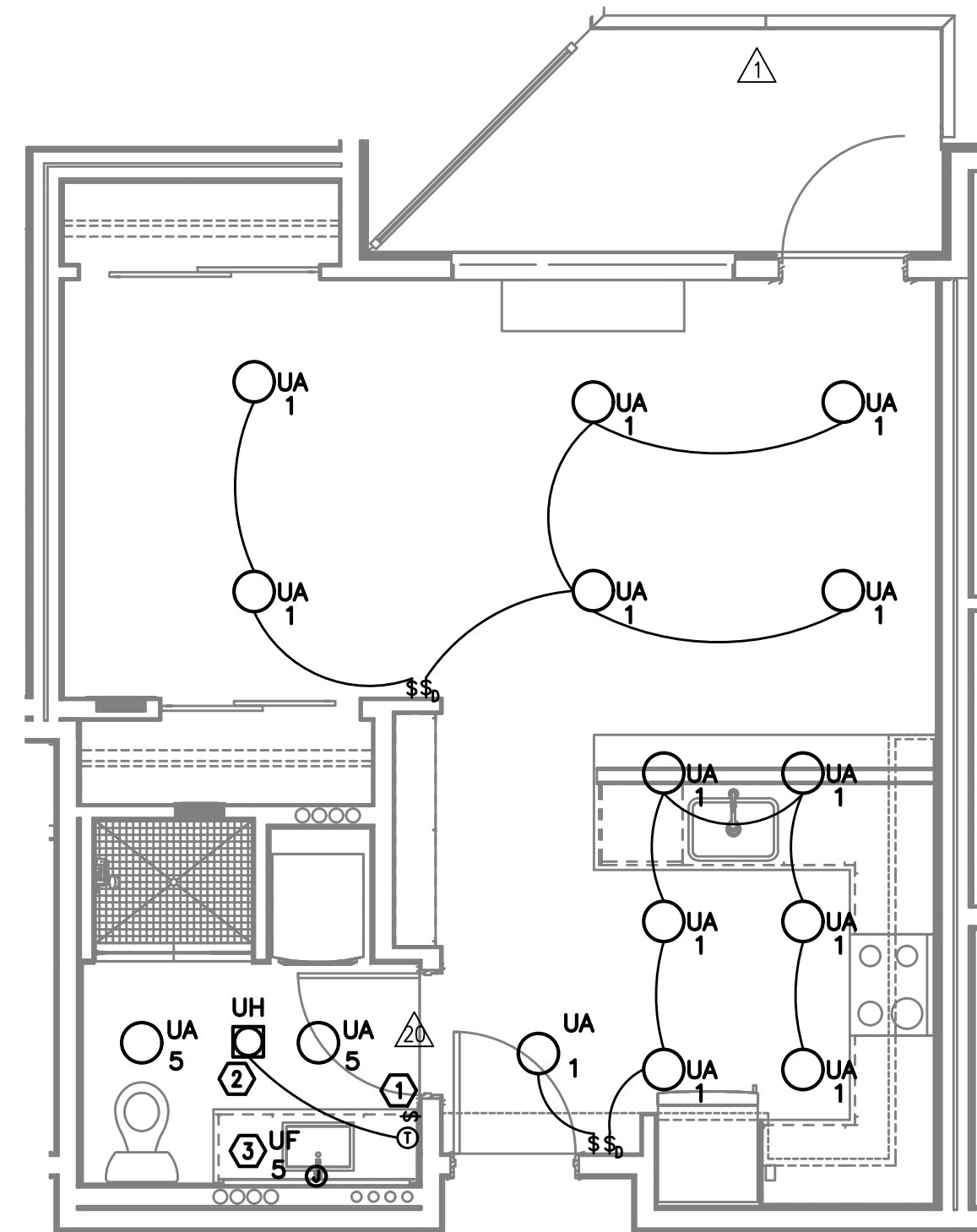


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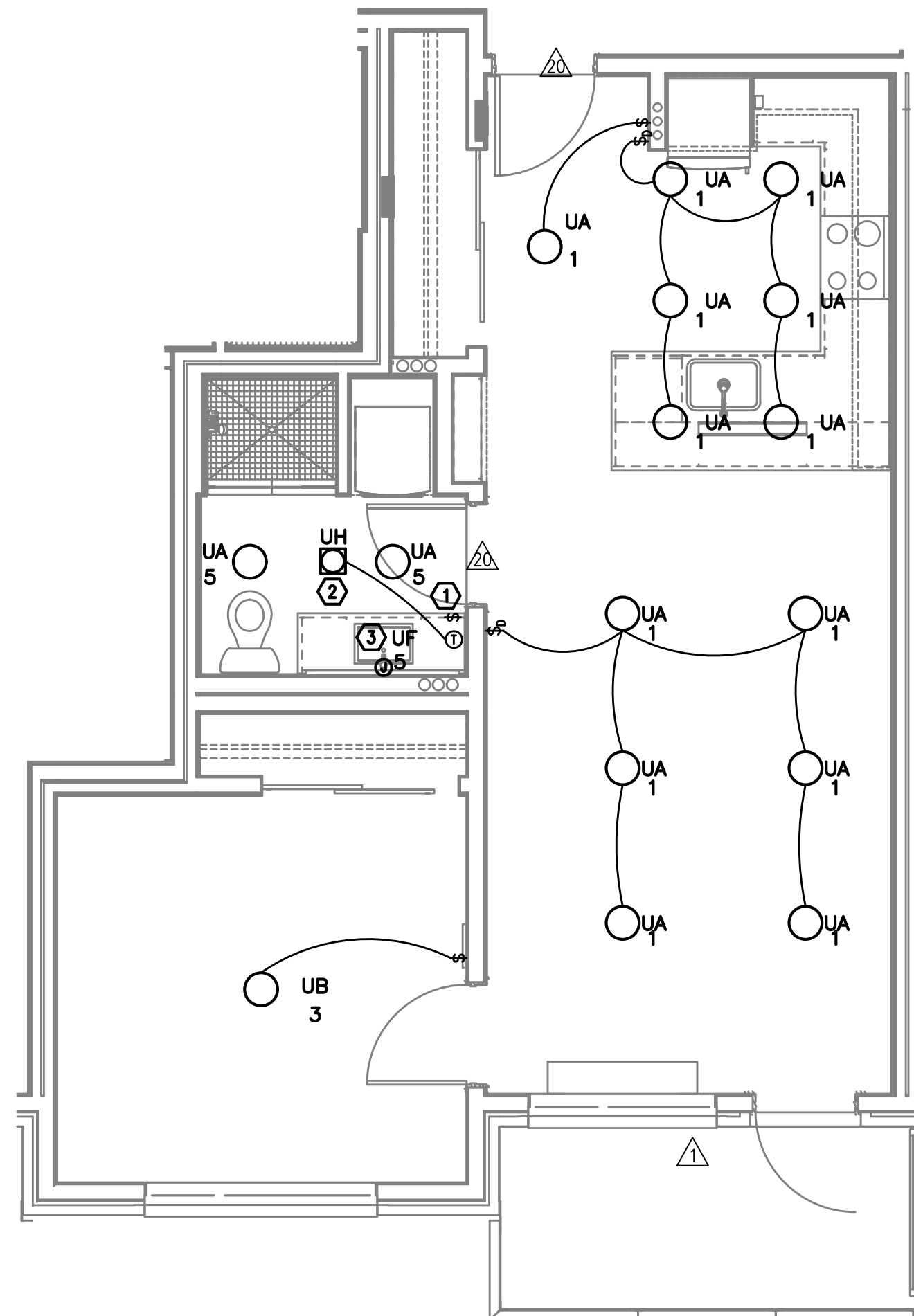
PROJECT # 20XX-XX
DATE: 03-31-2016

REVISIONS	
06.30.17	COORDINATION
07.14.17	COORDINATION
02.02.18	COORDINATION
06.22.18	COORDINATION

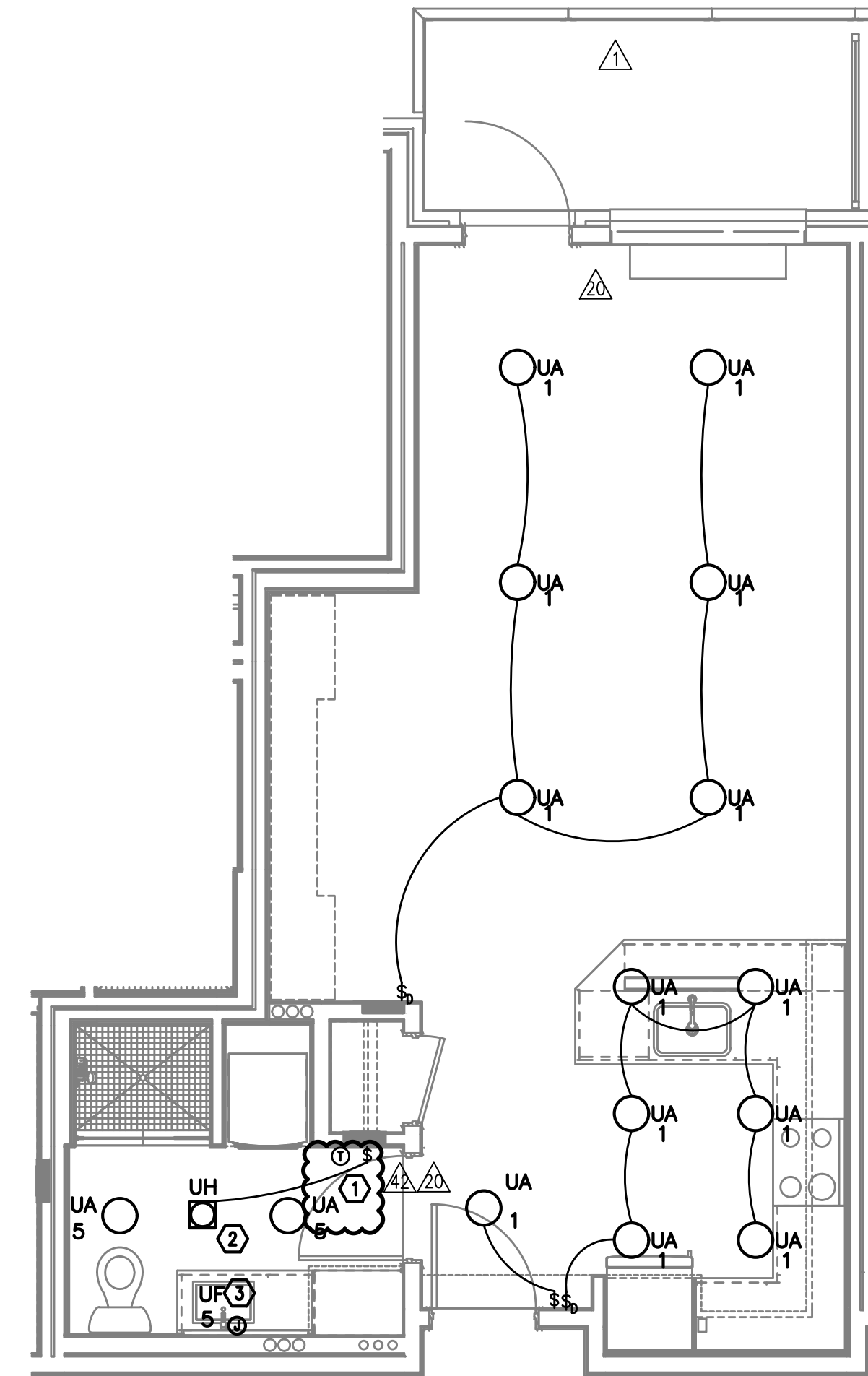
**VANCOUVER AVE PHASE I
MIXED USE BUILDING**
3956 VANCOUVER AVE, PORTLAND, OR 97227



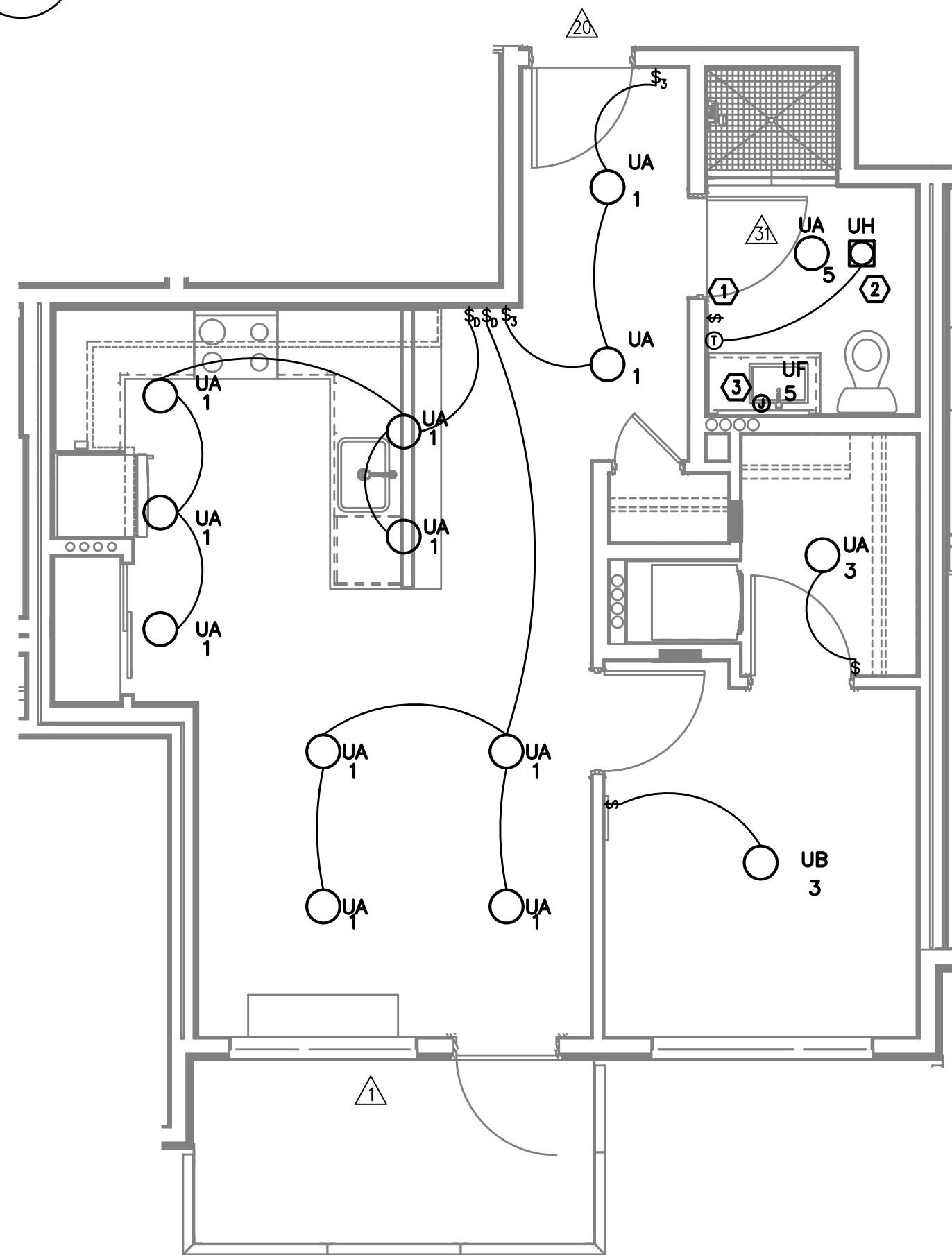
1 UNIT TYPE 'D' - LIGHTING
E4.02 SCALE: 1/4" = 1'-0"



3 UNIT TYPE 'F' - LIGHTING
E4.02 SCALE: 1/4" = 1'-0"



4 UNIT TYPE 'G' - LIGHTING
E4.02 SCALE: 1/4" = 1'-0"



2 UNIT TYPE 'E' - LIGHTING
E4.02 SCALE: 1/4" = 1'-0"

GENERAL NOTES (APARTMENT UNITS):

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

KEYED NOTES (APARTMENT UNITS):

- 1 REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.22.
- 2 PROVIDE ONE DEDICATED 20A CIRCUIT FOR BATHROOM CEILING HEATER FROM TENANT LOADCENTER. PROVIDE THERMOSTAT AS INDICATED.
- 3 PROVIDE ONE 15A RECEPTACLE, MOUNTED ABOVE VANITY AND TIED INTO THE BATHROOM LIGHT SWITCH FOR BACK-LIT MIRROR. REFER TO MANUFACTURER'S INSTALLATION GUIDE AND COORDINATE EXACT MOUNTING HEIGHT WITH THE INTERIOR DECORATOR AND/OR THE OWNER'S REPRESENTATIVE PRIOR TO ROUGH IN.

**M
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SHEET:

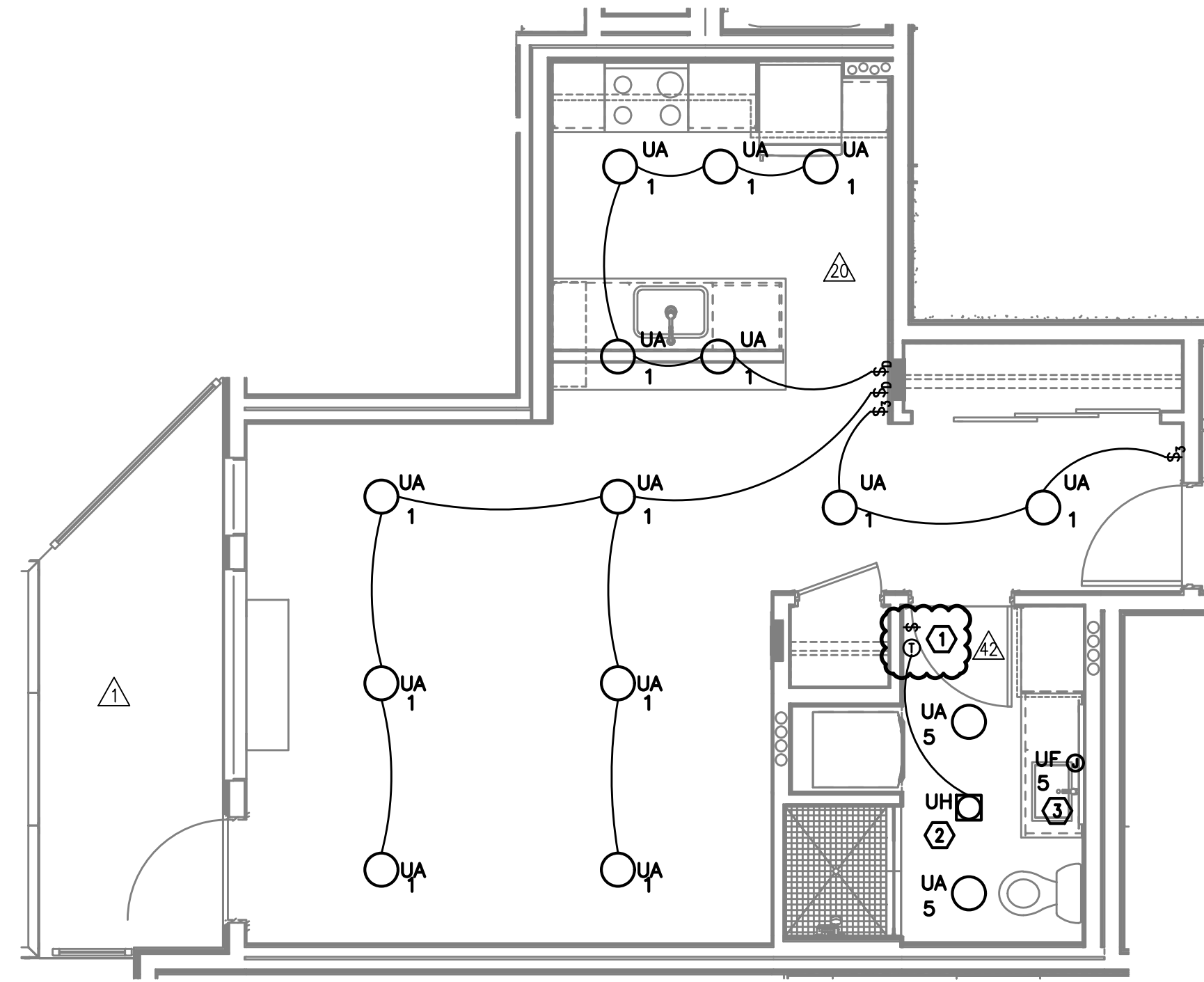
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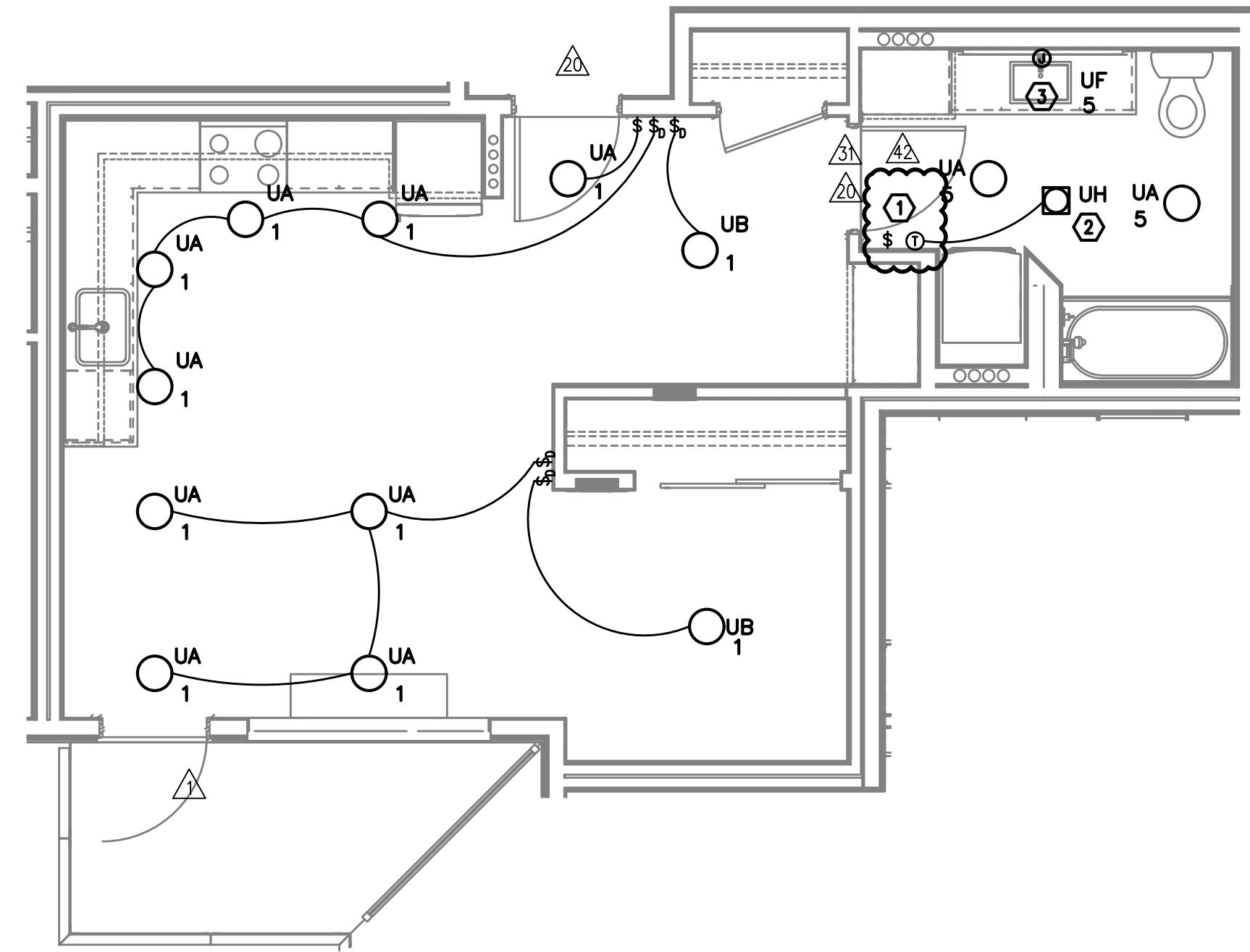
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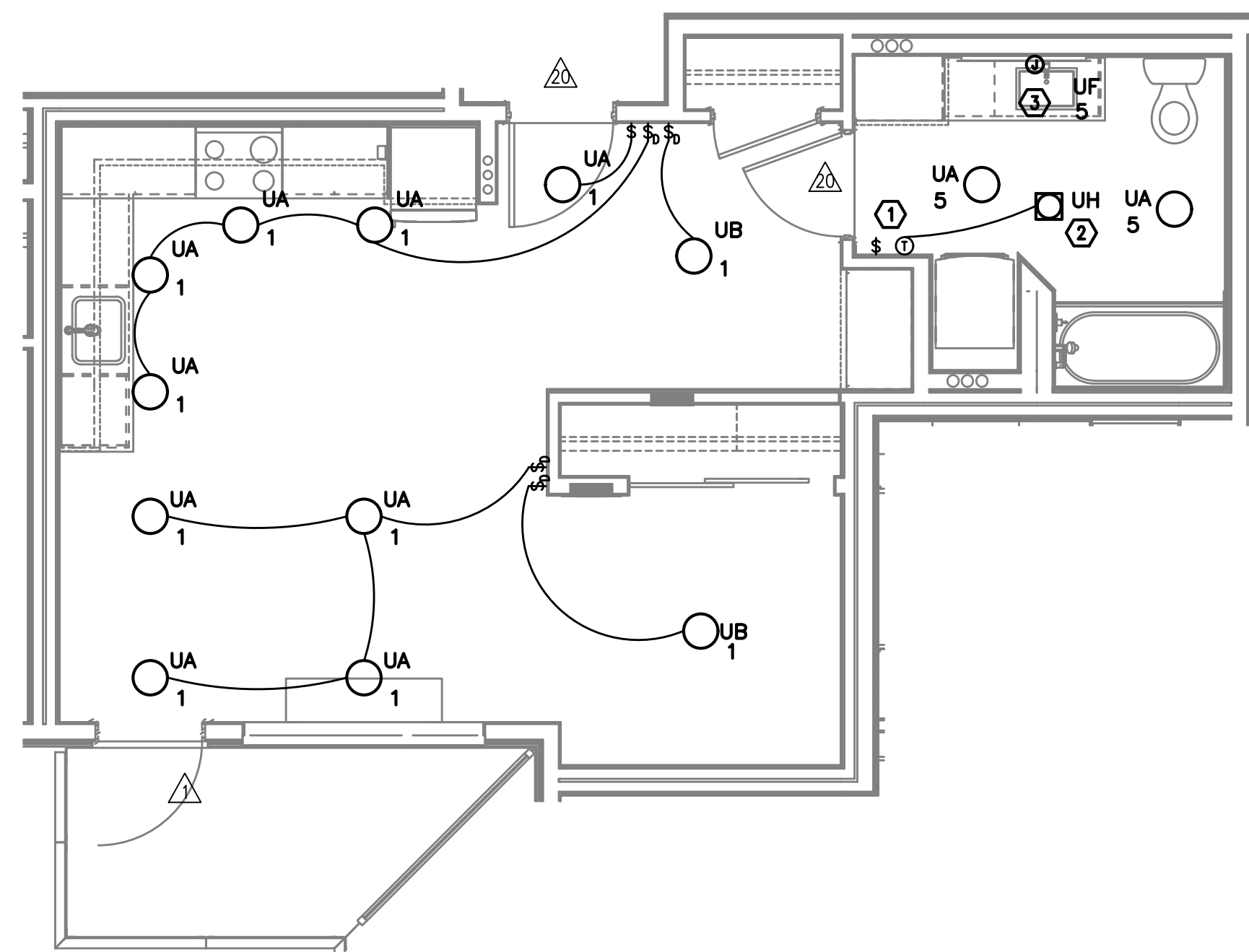
REVISIONS	
06.30.17	COORDINATION
07.14.17	COORDINATION
02.02.18	COORDINATION
06.22.18	COORDINATION



1 UNIT TYPE 'H' - LIGHTING
E4.03 SCALE: 1/4" = 1'-0"



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



2 UNIT TYPE 'I-ADA' - LIGHTING
E4.03 SCALE: 1/4" = 1'-0"

GENERAL NOTES (APARTMENT UNITS):

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

KEYED NOTES (APARTMENT UNITS):

- ① REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.22.
- ② PROVIDE ONE DEDICATED 20A CIRCUIT FOR BATHROOM CEILING HEATER FROM TENANT LOADCENTER. PROVIDE THERMOSTAT AS INDICATED.
- ③ PROVIDE ONE 15A RECEPTACLE, MOUNTED ABOVE VANITY AND TIED INTO THE BATHROOM LIGHT SWITCH FOR BACK-LIT MIRROR. REFER TO MANUFACTURER'S INSTALLATION GUIDE AND COORDINATE EXACT MOUNTING HEIGHT WITH THE INTERIOR DECORATOR AND/OR THE OWNER'S REPRESENTATIVE PRIOR TO ROUGH IN.

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SHEET:

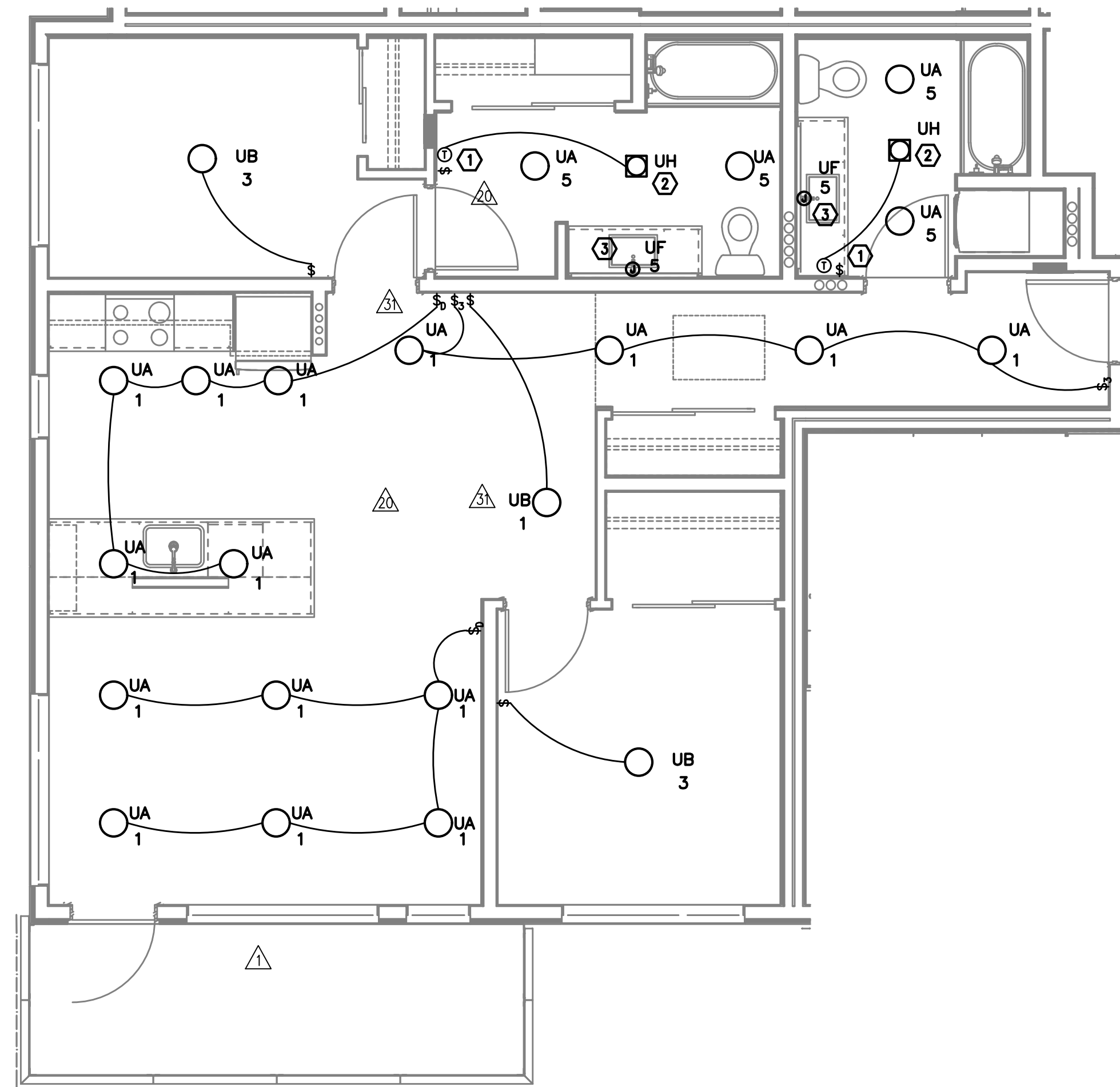
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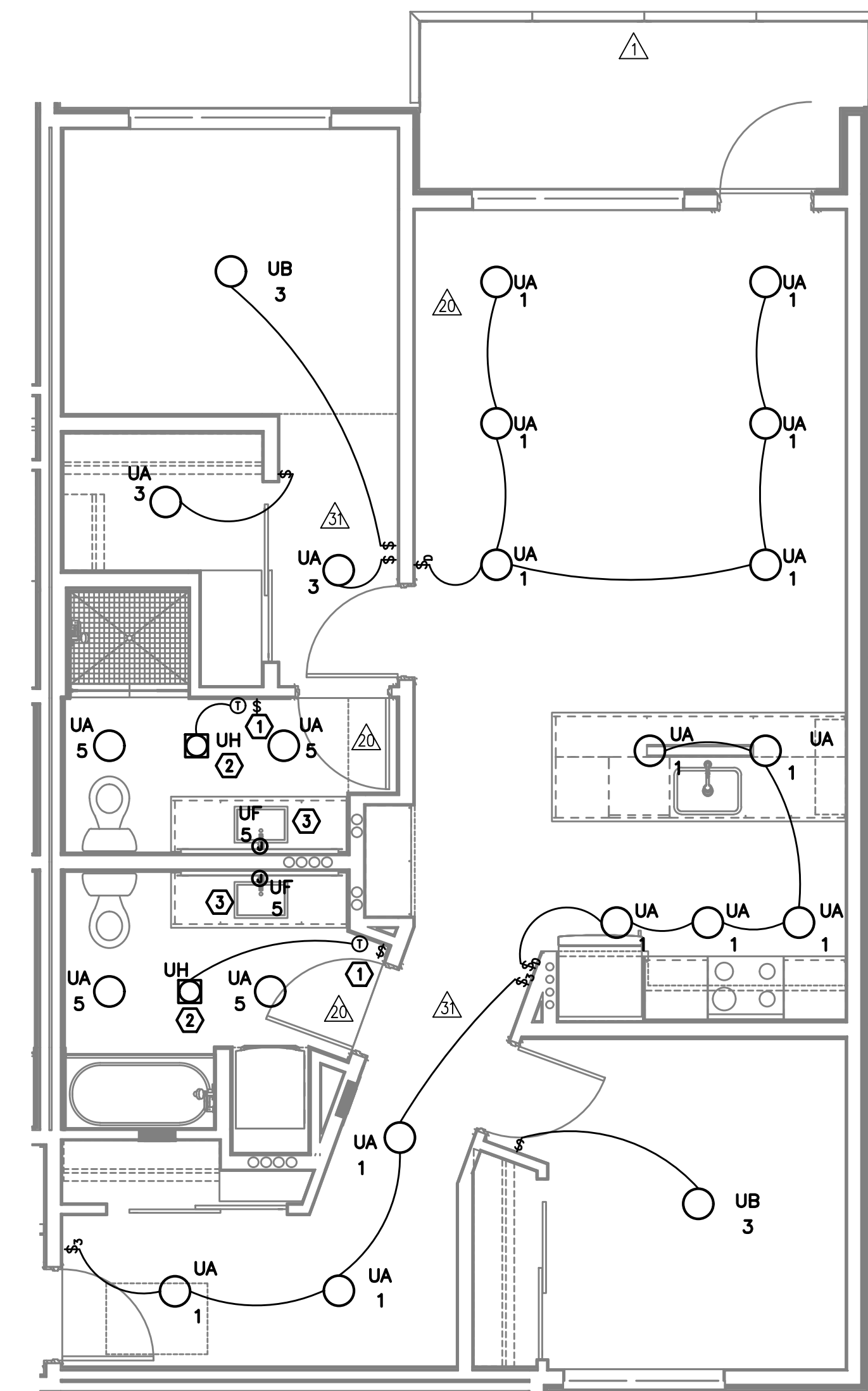
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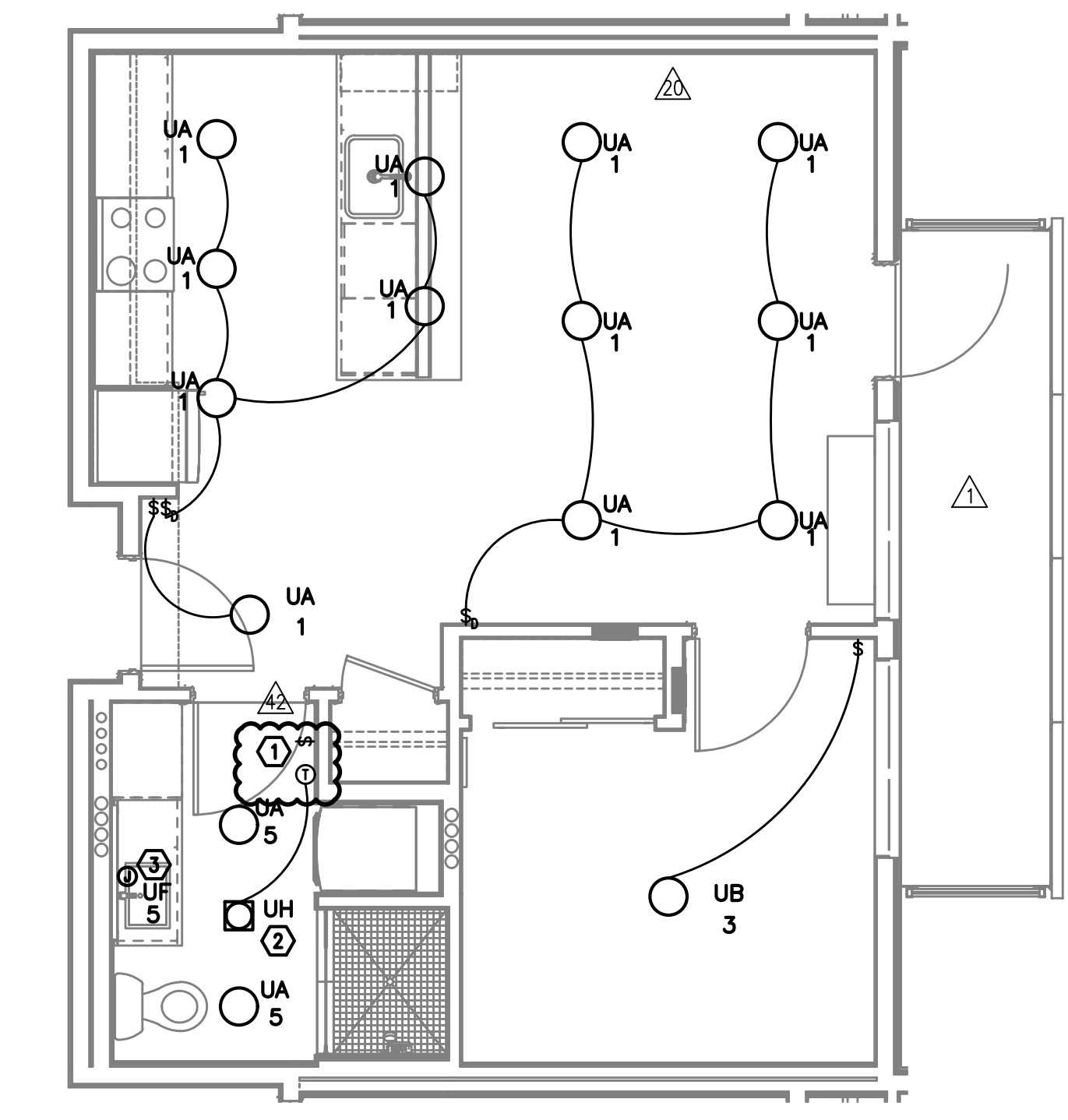
REVISIONS	
△ 06.15.16	COORDINATION
△ 06.30.17	COORDINATION
△ 07.14.17	COORDINATION
△ 02.02.18	COORDINATION



△ 1 UNIT TYPE 'J' - LIGHTING
E4.04 SCALE: 1/4" = 1'-0"



△ 2 UNIT TYPE 'K' - LIGHTING
E4.04 SCALE: 1/4" = 1'-0"



△ 3 UNIT TYPE 'L' - LIGHTING
E4.04 SCALE: 1/4" = 1'-0"

GENERAL NOTES (APARTMENT UNITS):

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- B. REFER TO SHEET E1.14 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
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SHEET:
E4.04



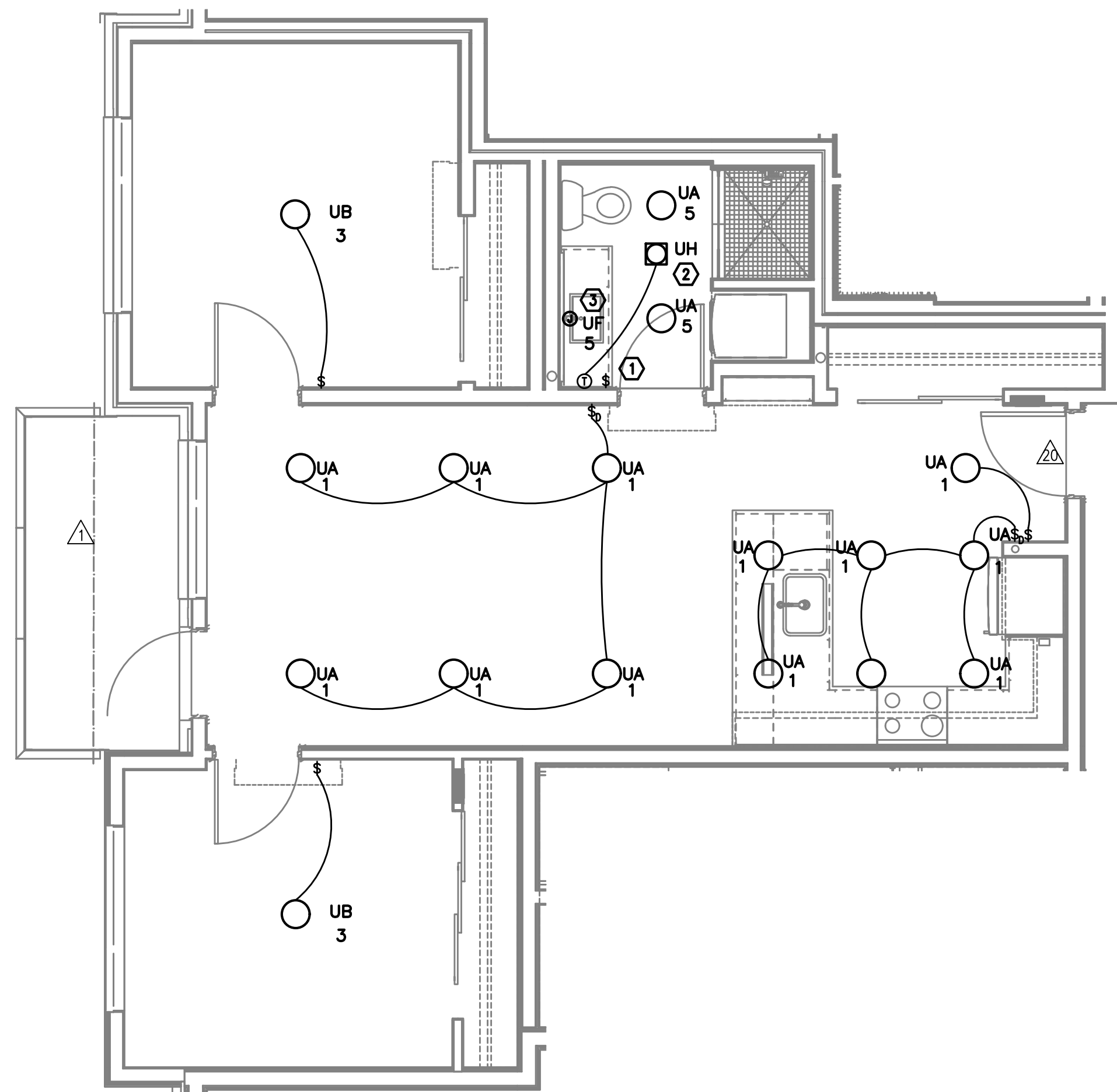
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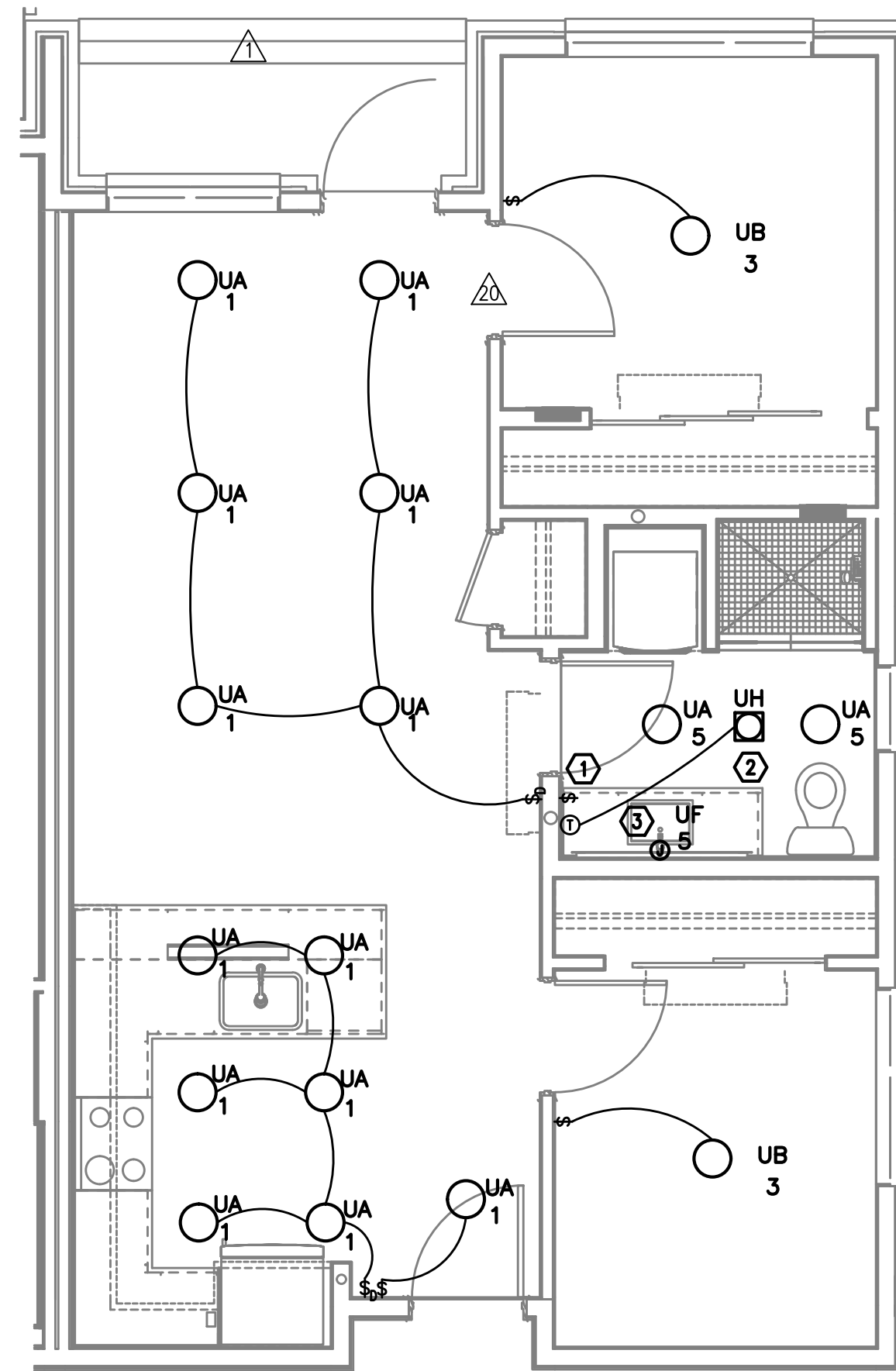
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△	07.14.17 COORDINATION
△	02.02.18 COORDINATION

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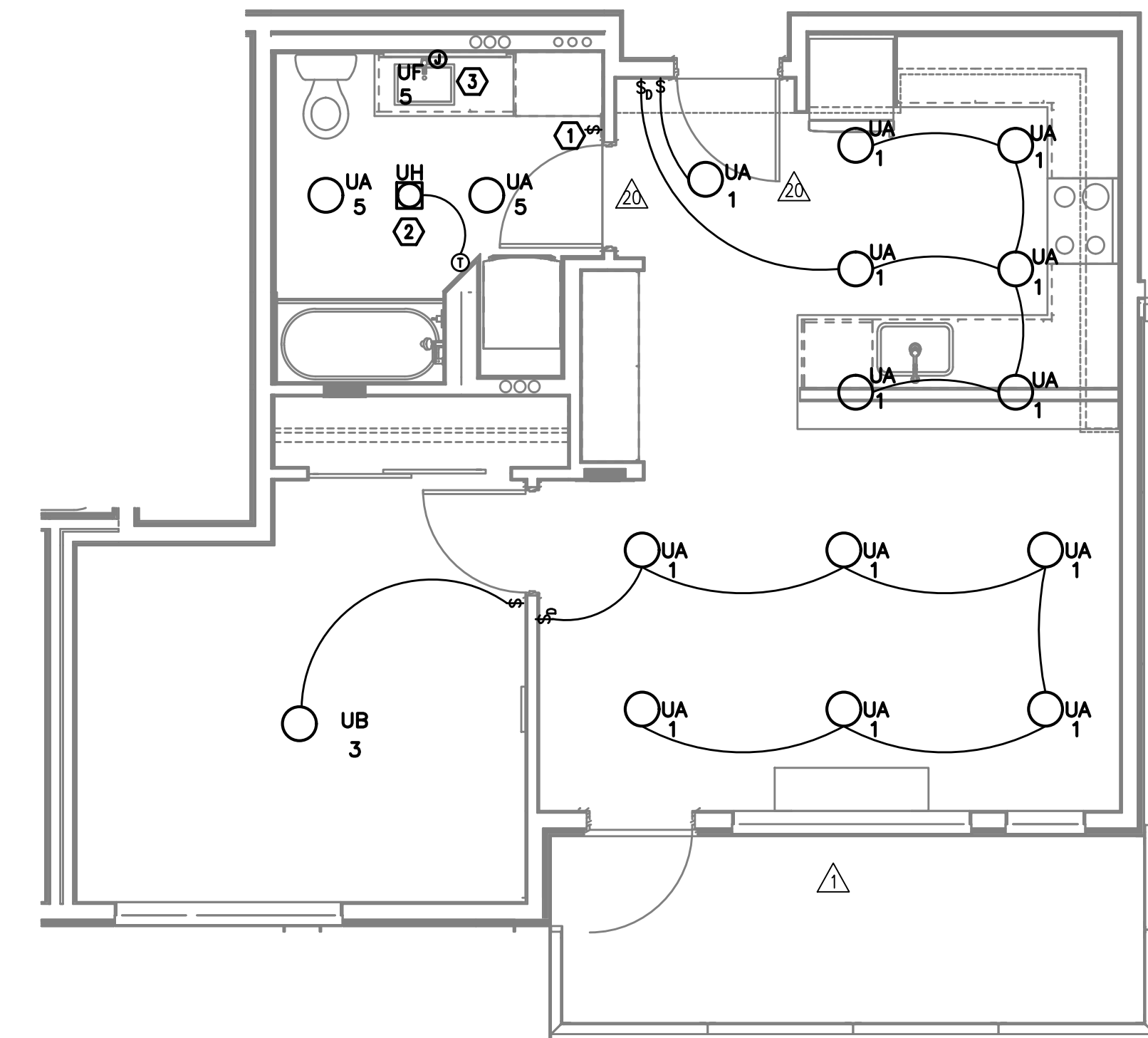
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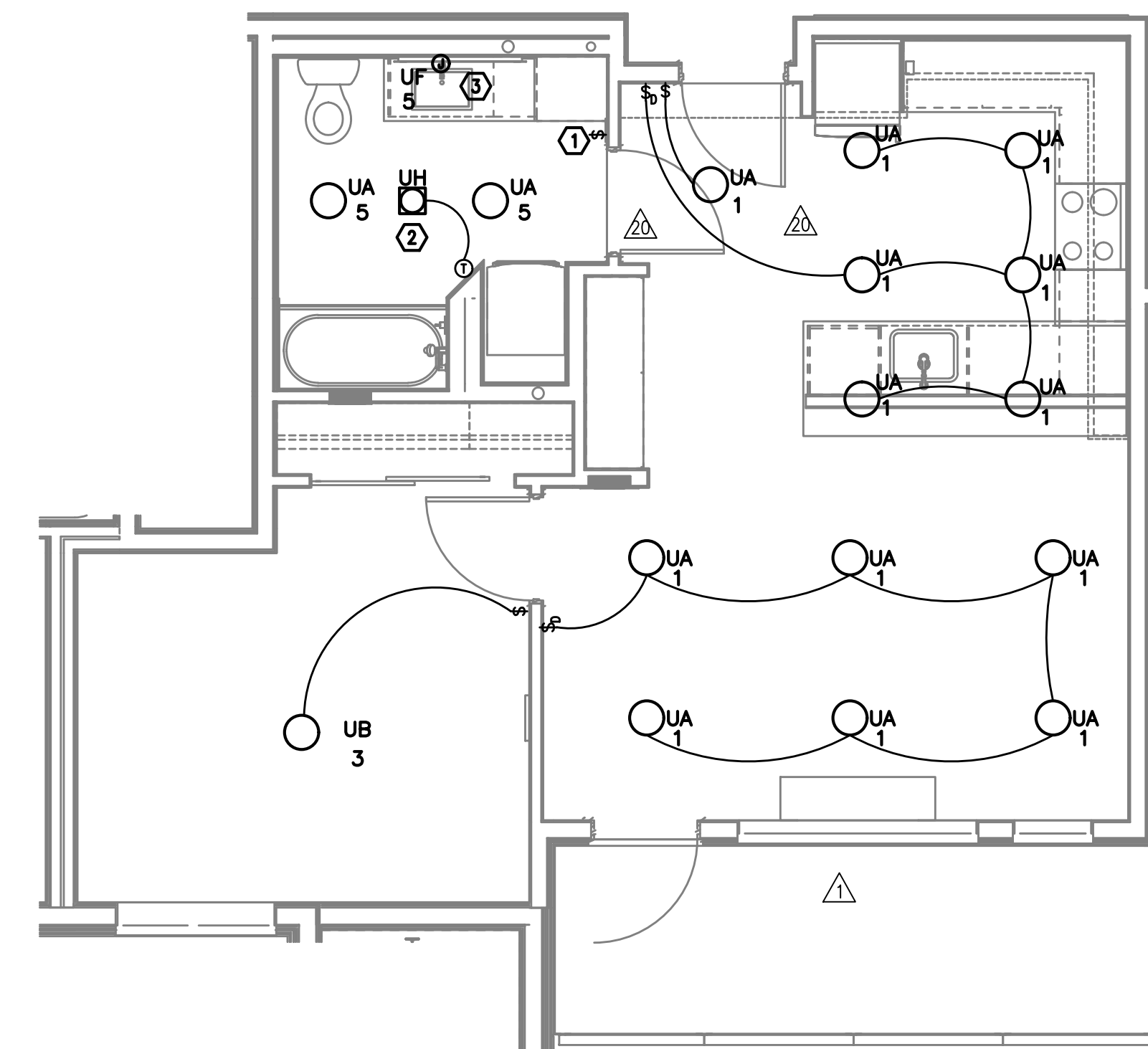
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E4.05 SCALE: 1/4" = 1'-0"



△ 2 UNIT TYPE 'N' - LIGHTING
E4.05 SCALE: 1/4" = 1'-0"



△ 3 UNIT TYPE 'O' - LIGHTING
E4.05 SCALE: 1/4" = 1'-0"



△ 4 UNIT TYPE 'O-ADA' - LIGHTING
E4.05 SCALE: 1/4" = 1'-0"

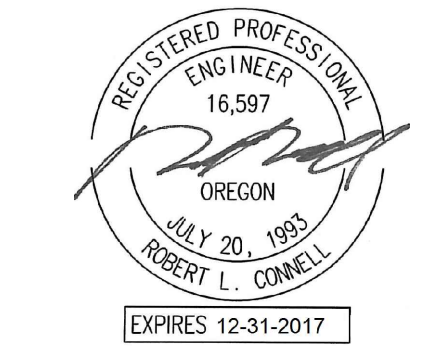
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KEYED NOTES (APARTMENT UNITS):

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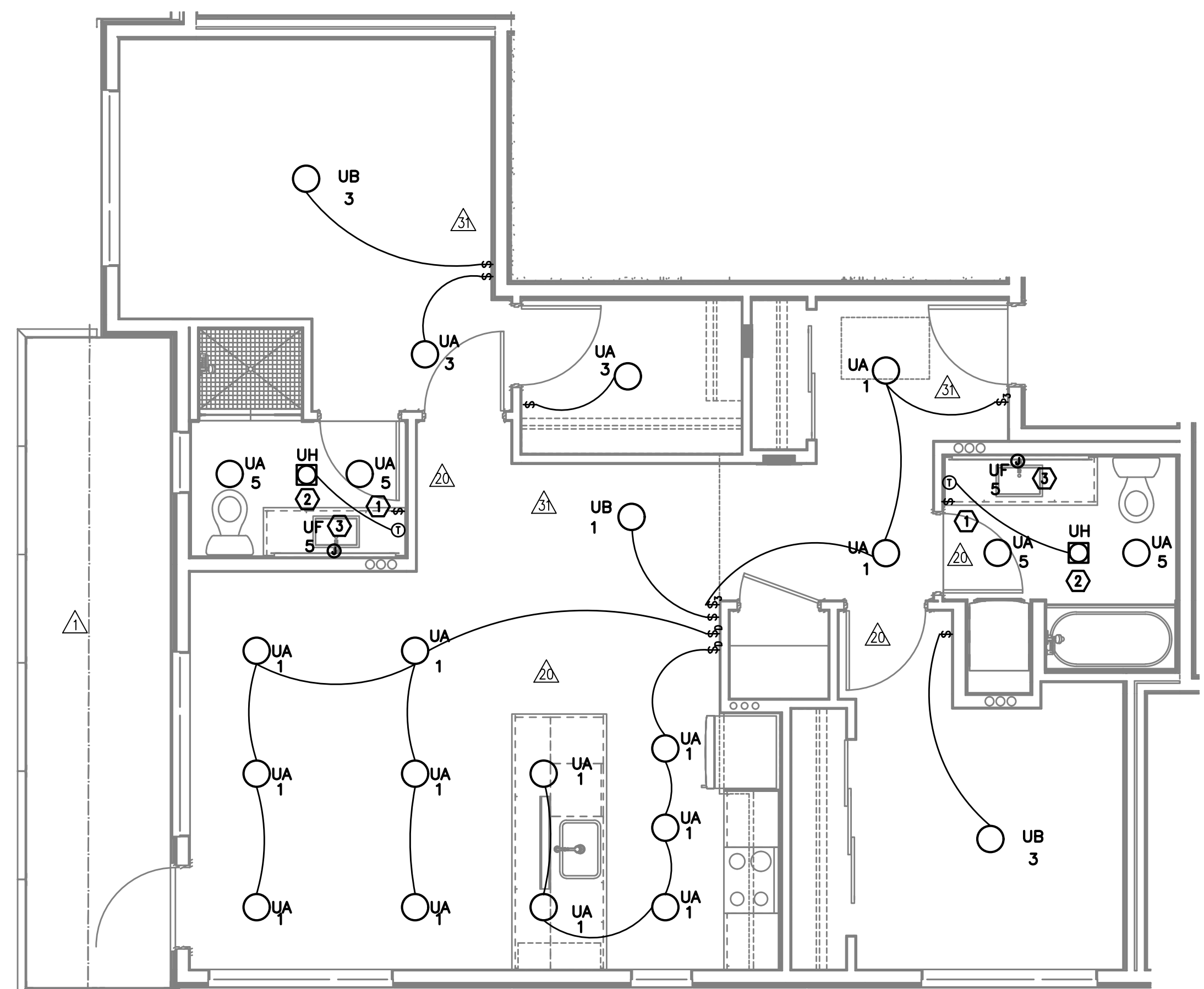
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△ 02.02.18	COORDINATION

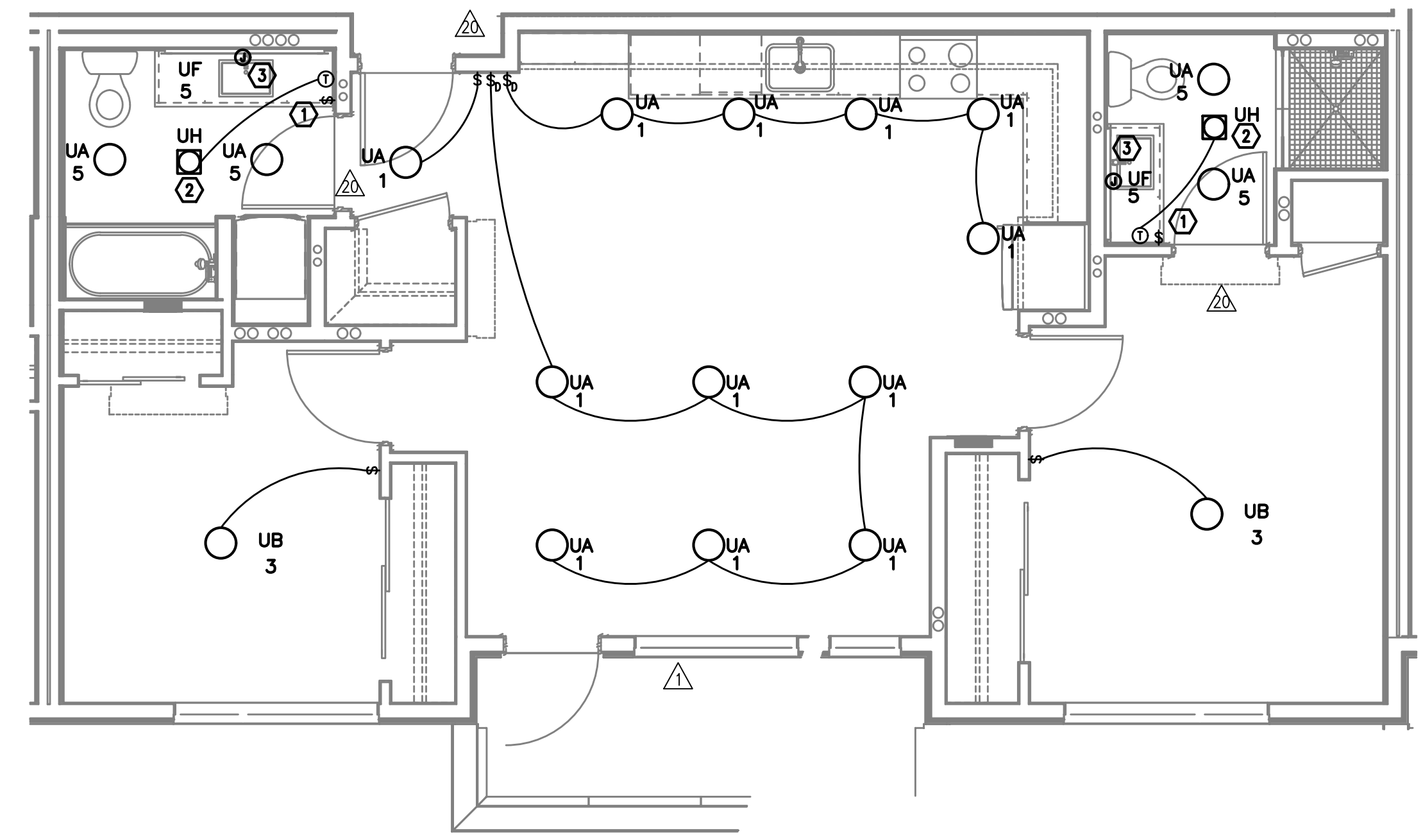
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SHEET:
E4.06

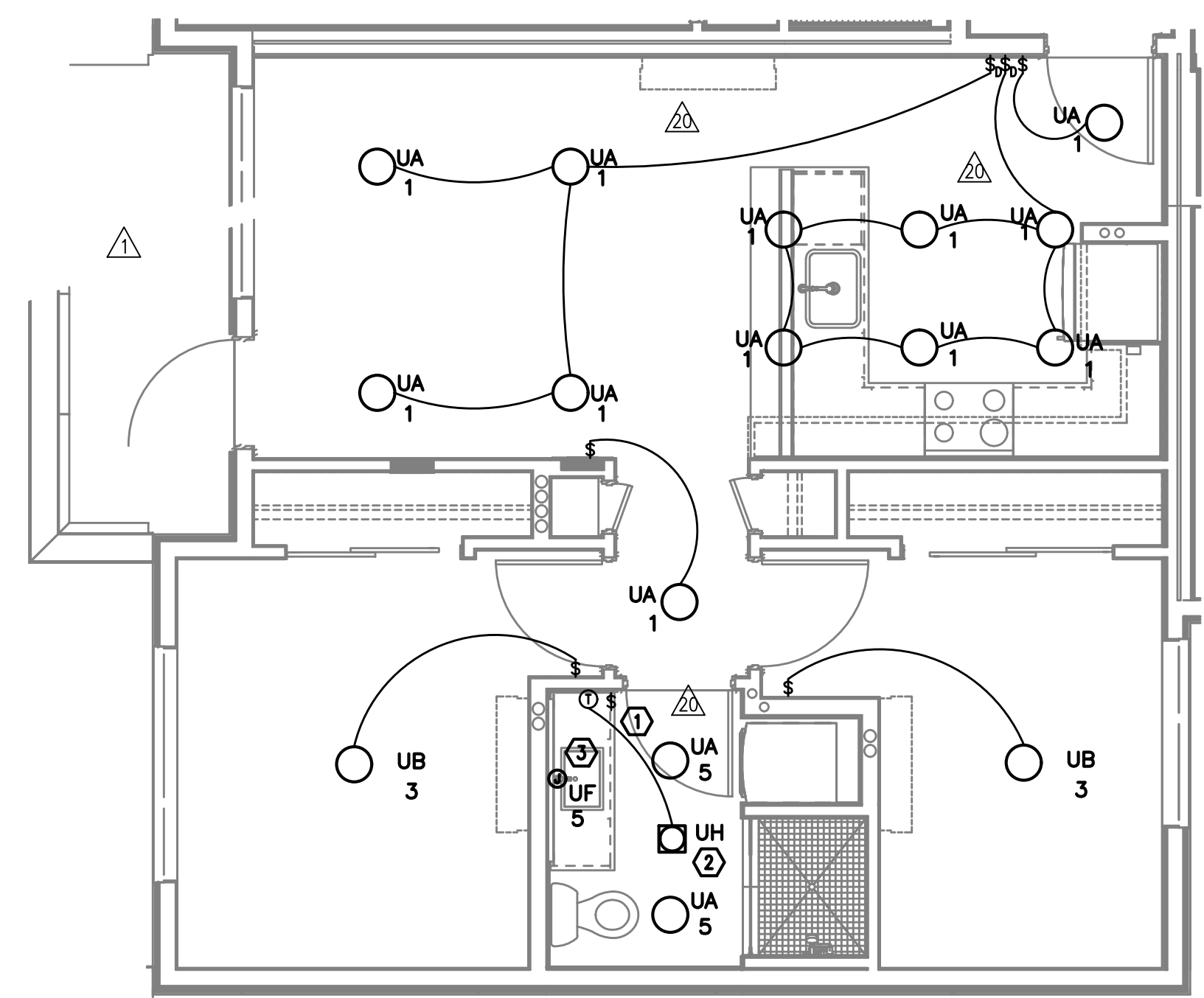
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A
INC. Consulting Engineers
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Portland, OR 97214
PH: (503) 234-0548
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CONTACT: DENISE TAYLOR



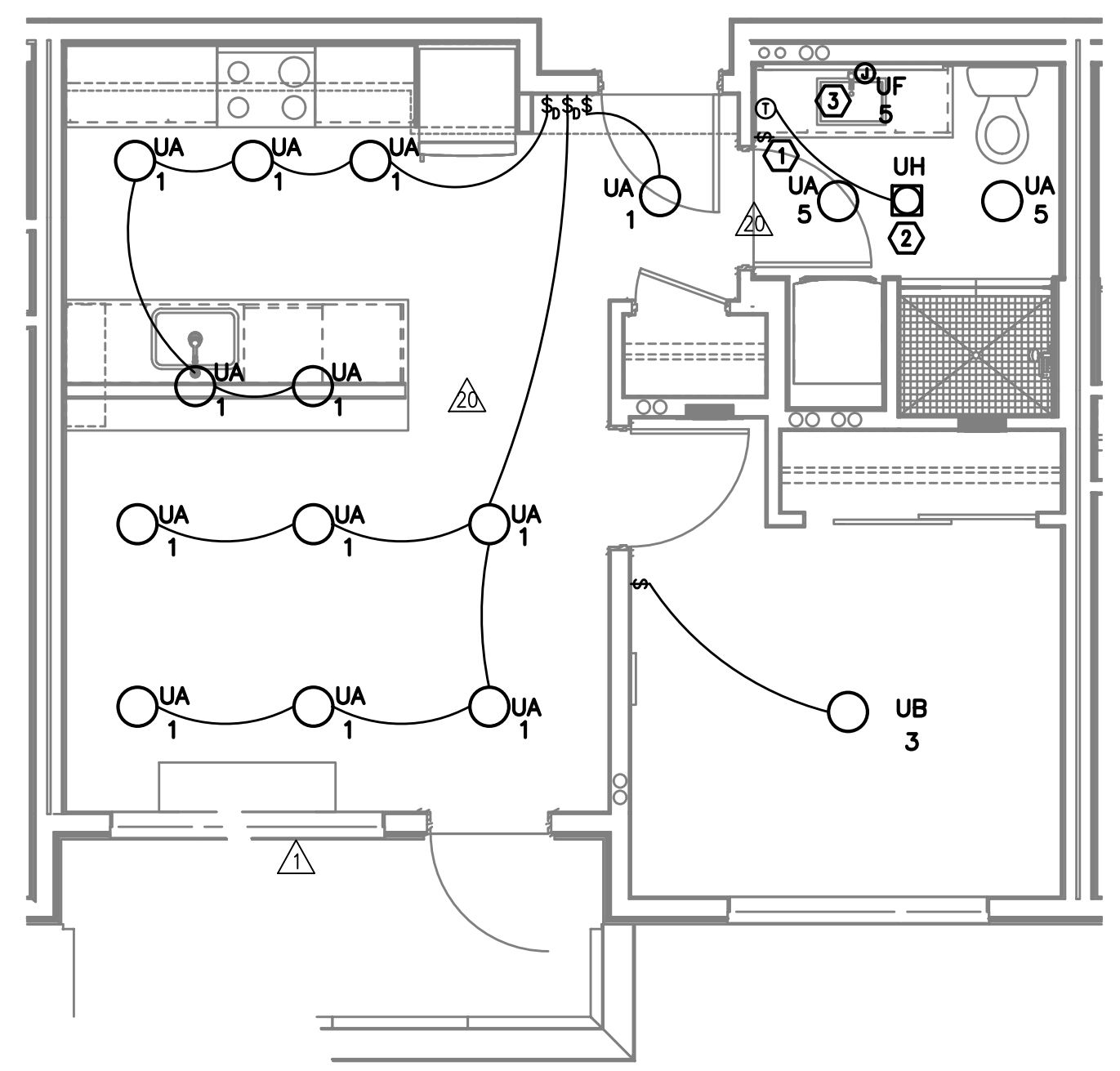
1 UNIT TYPE 'P' - LIGHTING
E4.06 SCALE: 1/4" = 1'-0"



3 UNIT TYPE 'R' - LIGHTING
E4.06 SCALE: 1/4" = 1'-0"



2 UNIT TYPE 'Q' - LIGHTING
E4.06 SCALE: 1/4" = 1'-0"



4 UNIT TYPE 'S' - LIGHTING
E4.06 SCALE: 1/4" = 1'-0"

GENERAL NOTES (APARTMENT UNITS):

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

KEYED NOTES (APARTMENT UNITS):

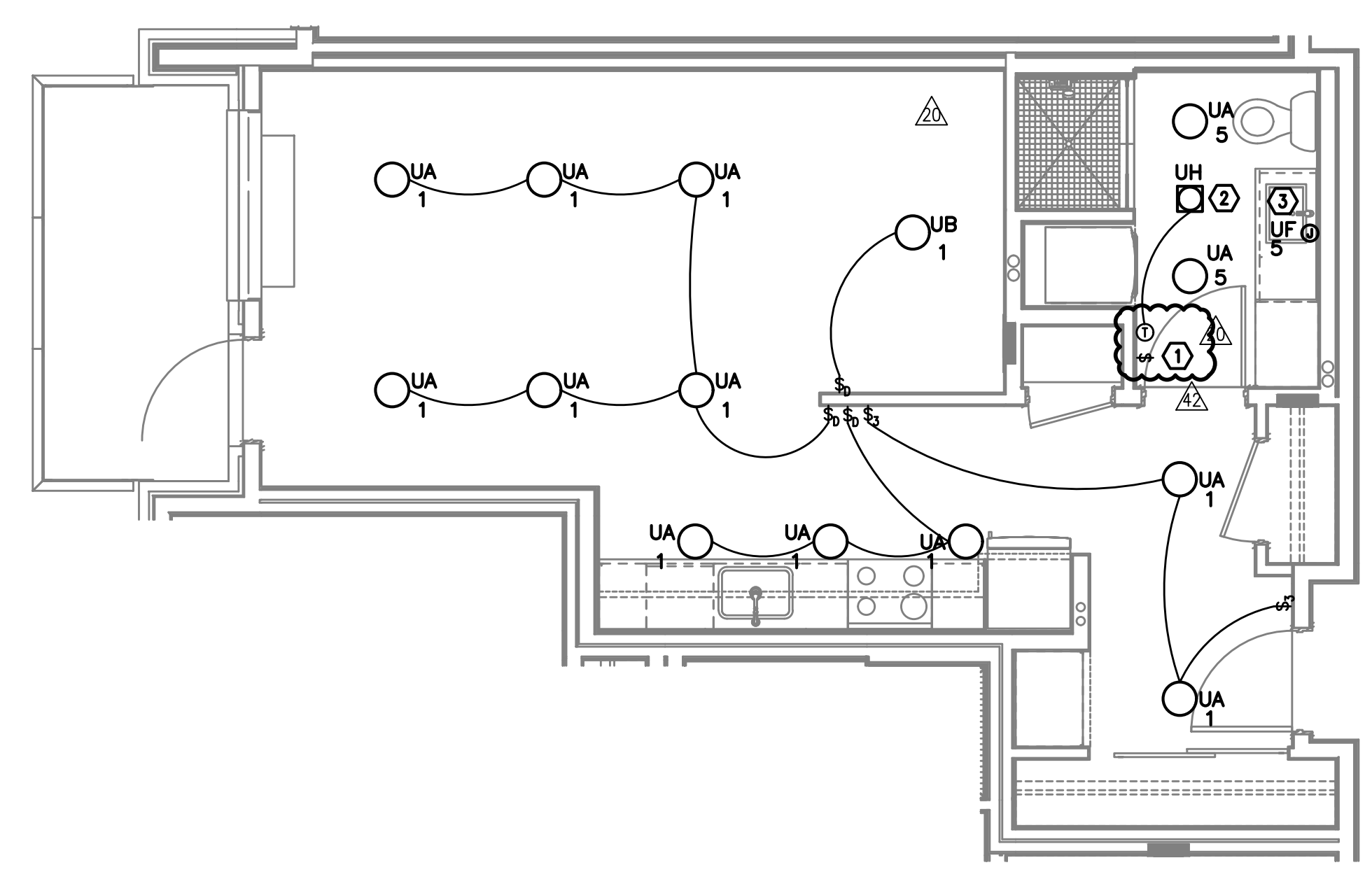
- △ ① REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.22.
- △ ② PROVIDE ONE DEDICATED 20A CIRCUIT FOR BATHROOM CEILING HEATER FROM TENANT LOADCENTER. PROVIDE THERMOSTAT AS INDICATED.
- △ ③ PROVIDE ONE 15A RECEPTACLE, MOUNTED ABOVE VANITY AND TIED INTO THE BATHROOM LIGHT SWITCH FOR BACK-LIT MIRROR. REFER TO MANUFACTURER'S INSTALLATION GUIDE AND COORDINATE EXACT MOUNTING HEIGHT WITH THE INTERIOR DECORATOR AND/OR THE OWNER'S REPRESENTATIVE PRIOR TO ROUGH IN.



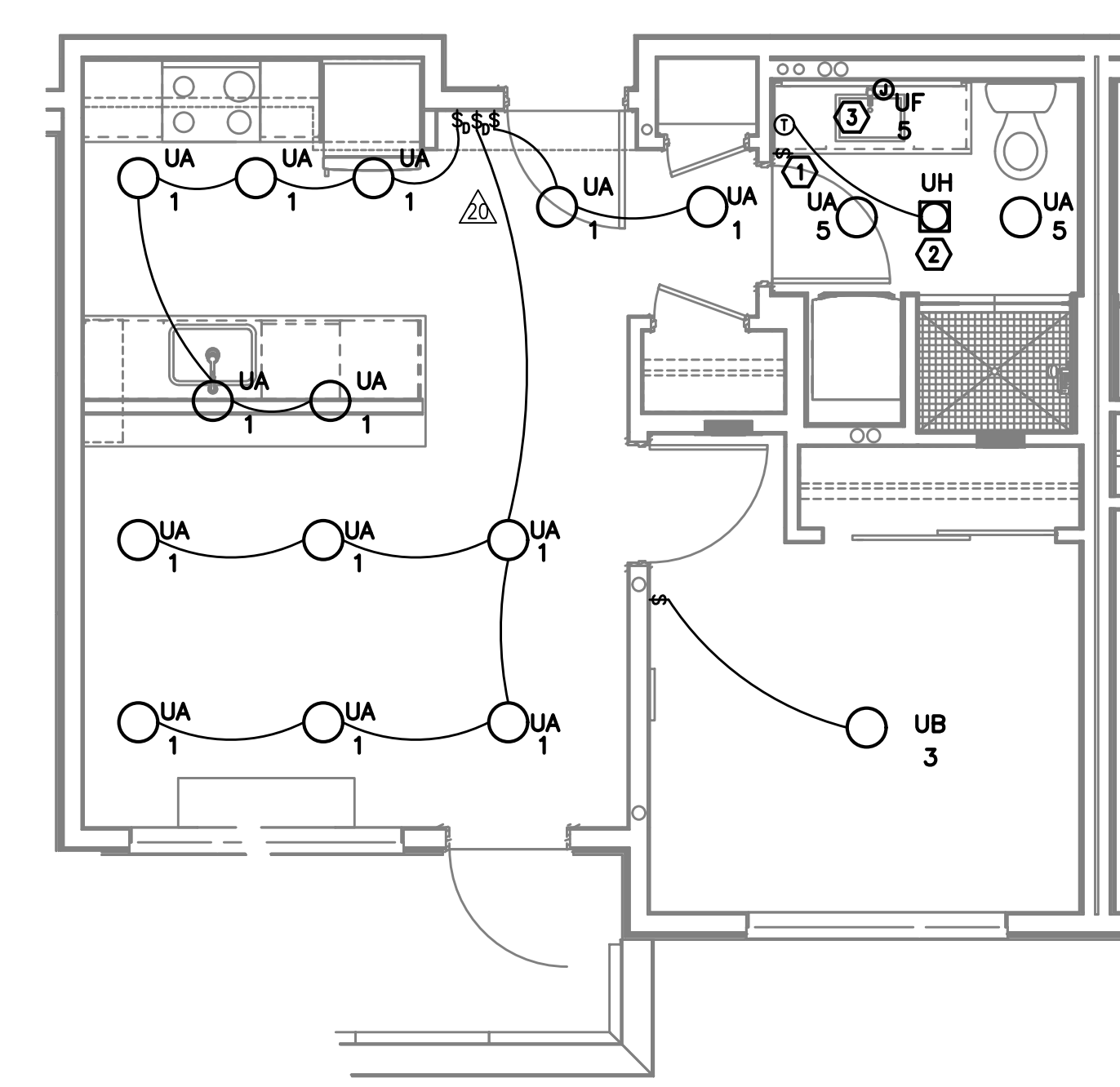
IN THE EVENT CONFLICTS ARE DISCOVERED BETWEEN THE ORIGINAL SIGNED AND SEALED DOCUMENTS PREPARED BY THE ARCHITECTS AND/OR THEIR CONSULTANTS, AND ANY COPY OF THE DOCUMENTS TRANSMITTED BY MAIL, FAX, ELECTRONICALLY OR OTHERWISE, THE ORIGINAL SIGNED AND SEALED DOCUMENTS SHALL GOVERN.

PROJECT # 20XX-XX
DATE: 03-31-2016

REVISIONS	
⚠	06.30.17 COORDINATION
⚠	07.14.17 COORDINATION
⚠	02.02.18 COORDINATION
⚠	06.22.18 COORDINATION



1 UNIT TYPE 'T' - LIGHTING
E4.07 SCALE: 1/4" = 1'-0"



2 UNIT TYPE 'U' - LIGHTING
E4.07 SCALE: 1/4" = 1'-0"

GENERAL NOTES (APARTMENT UNITS):

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

KEYED NOTES (APARTMENT UNITS):

- ⚠ ① REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.22.
- ⚠ ② PROVIDE ONE DEDICATED 20A CIRCUIT FOR BATHROOM CEILING HEATER FROM TENANT LOADCENTER. PROVIDE THERMOSTAT AS INDICATED.
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**VANCOUVER AVE PHASE I
MIXED USE BUILDING**
3956 VANCOUVER AVE, PORTLAND, OR 97227

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A** Consulting Engineers
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SHEET:
E4.07



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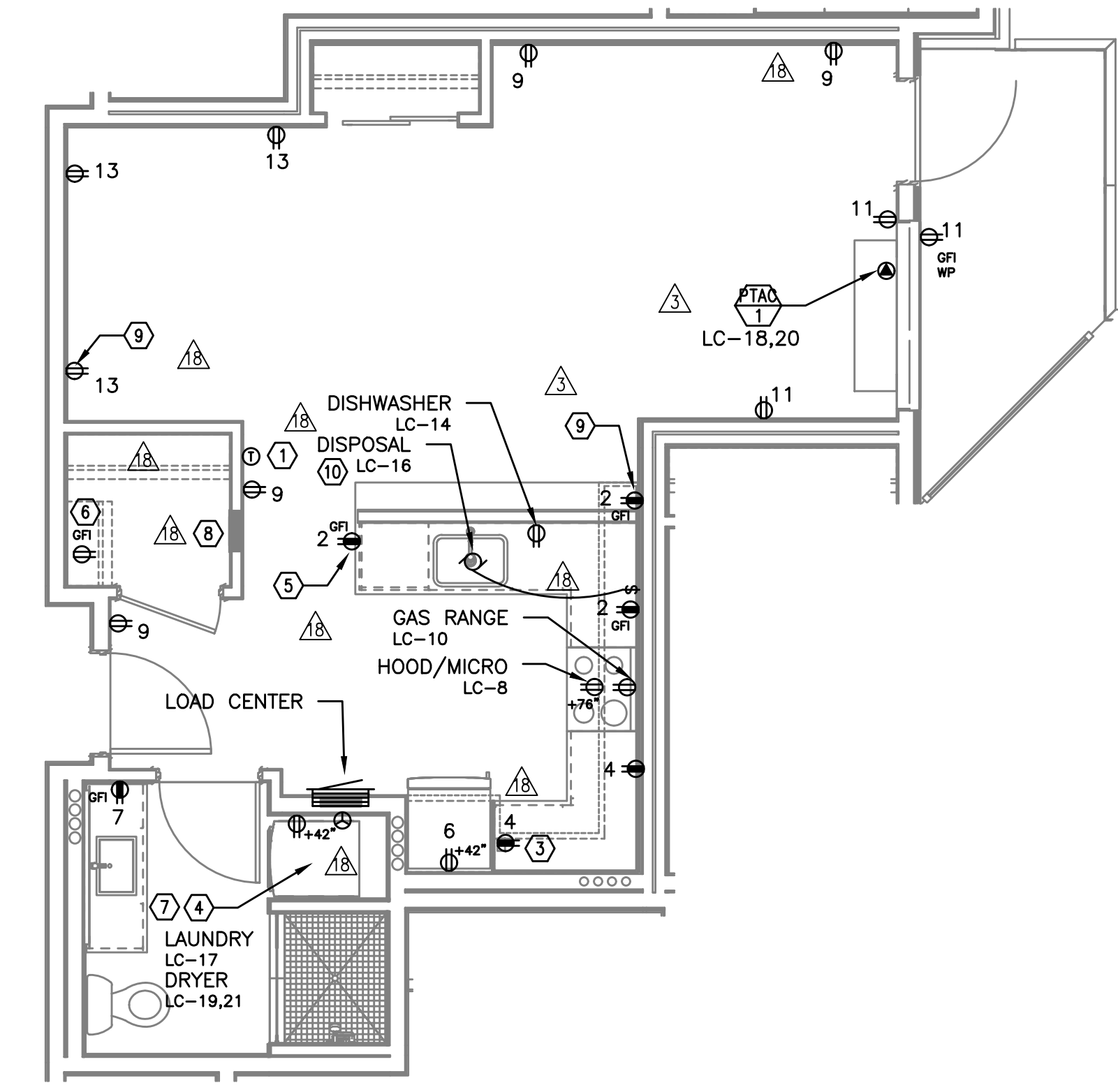
PROJECT # 20XX-XX
DATE: 03-31-2016

REVISIONS	
3	09.09.16 COORDINATION
8	06.30.17 COORDINATION
10	07.14.17 COORDINATION

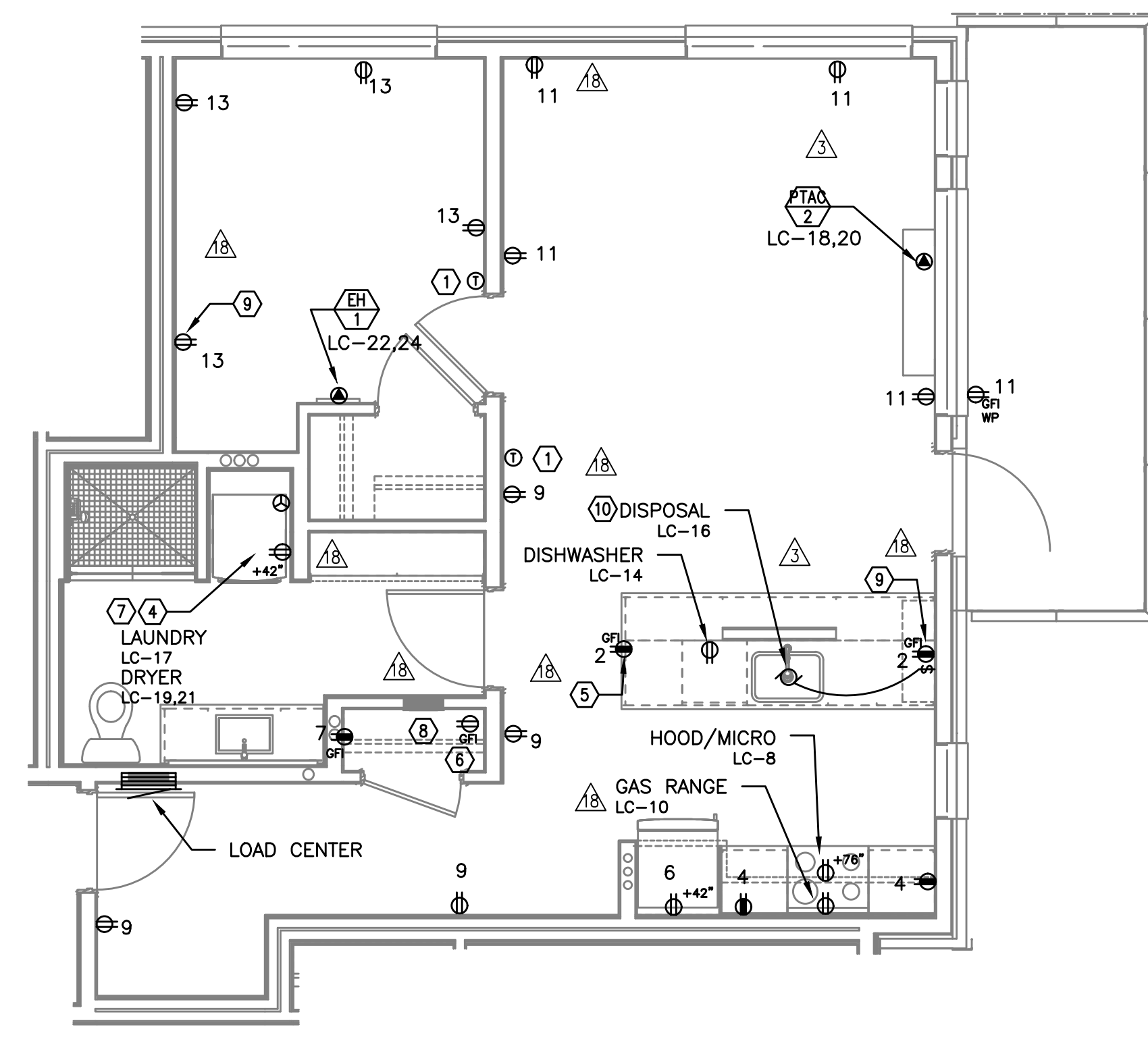
**VANCOUVER AVE PHASE I
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SHEET:
E4.11

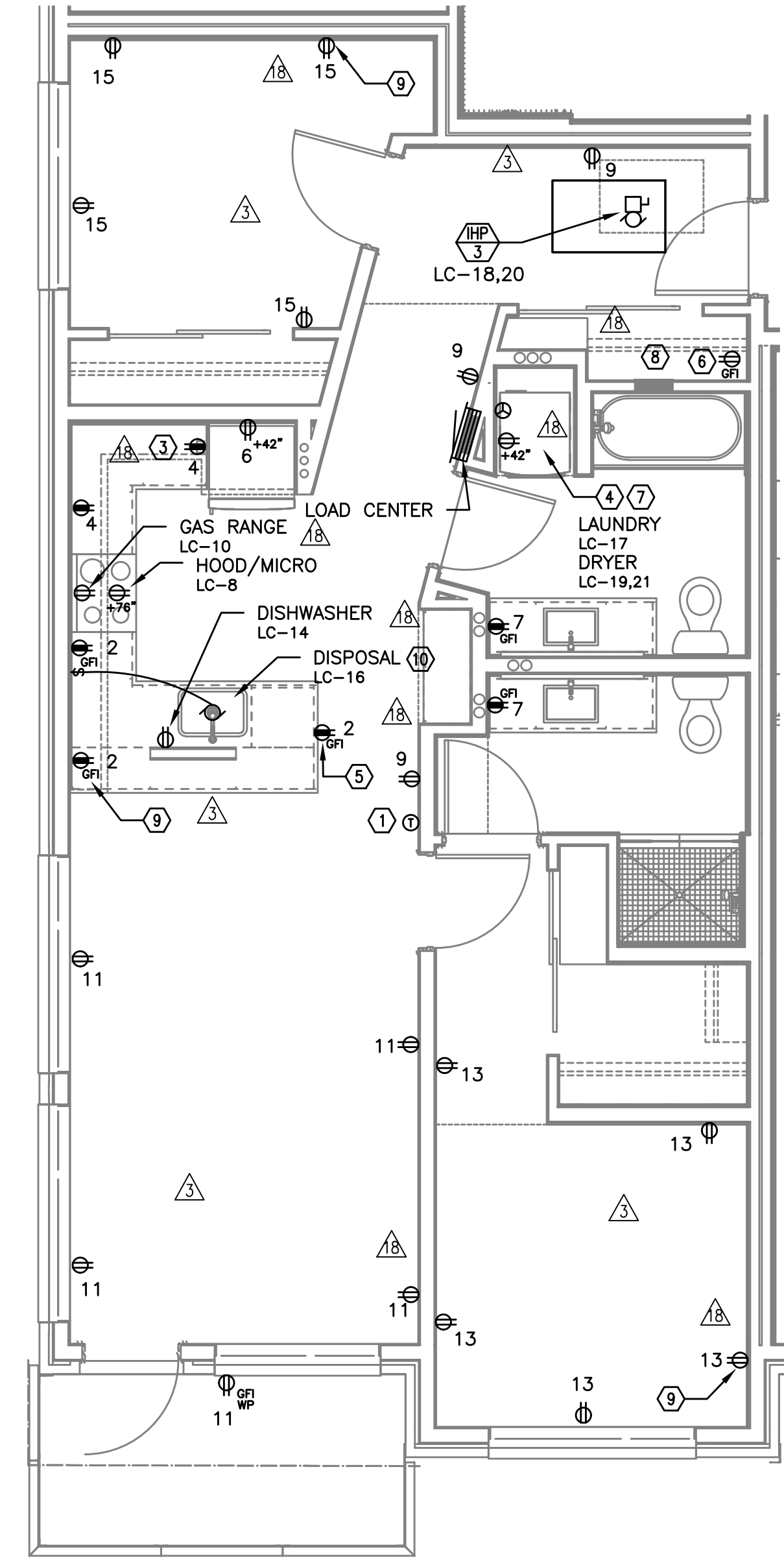
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www.MFIA-ENG.COM
CONTACT: DENISE TAYLOR



3 UNIT TYPE 'C' - POWER
E4.11 SCALE: 1/4" = 1'-0"



2 UNIT TYPE 'B' - POWER
E4.11 SCALE: 1/4" = 1'-0"



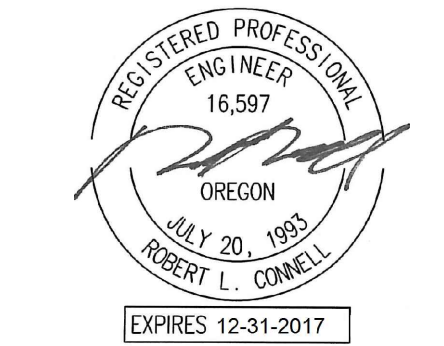
1 UNIT TYPE 'A' - POWER
E4.11 SCALE: 1/4" = 1'-0"

GENERAL NOTES (APARTMENT UNITS):

- 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 AND G2.01 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 E1.14 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

KEYED NOTES (APARTMENT UNITS):

- 1 PROVIDE WIRE CONNECTION FOR THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- 2 FOR UNITS USING MINI-SPLIT SYSTEMS, PROVIDE INTERCONNECTION BETWEEN INDOOR AND OUTDOOR UNITS AS REQUIRED. COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- 3 RECESSED 20A, 1P GFCI RATED, POP-UP COUNTER TOP RECEPTACLE, LEW ELECTRIC PUR20 SERIES OR APPROVED EQUAL. FINISH PER OWNER'S DIRECTION.
- 4 REFER TO DETAIL 4/E1.23 FOR TYPICAL LAUNDRY ALCOVE RECEPTACLE LOCATIONS. COORDINATE INSTALLATION WITH MECHANICAL & PLUMBING CONTRACTOR.
- 5 MOUNT DEVICES HORIZONTALLY, JUST UNDER THE EDGE OF THE COUNTER TOP.
- 6 PROVIDE ONE DEDICATED GFCI RATED 20A, 120V, 1P RECEPTACLE, LOCATED NEAR WATER SERVICE ENTRY INTO UNIT FOR WATER METER. MOUNT CLOSE TO CEILING AND CIRCUIT FROM TENANT PANEL. CONSULT PLUMBING PLANS AND COORDINATE EXACT LOCATION PRIOR TO ROUGH IN.
- 7 PROVIDE POWER CONNECTION FOR DRYER BOOSTER FAN WHERE REQUIRED. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION PRIOR TO ROUGH IN.
- 8 PROVIDE ONE 15A, RECEPTACLE CIRCUIT FROM TENANT LOAD CENTER FOR COMCAST SMART PANEL. COORDINATE WORK WITH SERVICE PROVIDER FOR EXACT LOCATION AND FINAL CONNECTION.
- 9 PROVIDE ONE 20A, 120V, 1P RECEPTACLE WITH USB PORT, MOUNTED AT 48" A.F.F. AT KITCHEN ISLAND/PENNISULA COUNTER & AT 18" AFF IN BEDROOMS. CONSULT ARCHITECT AND/OR INTERIOR DESIGNER FOR ADDITIONAL LOCATIONS WHERE REQUIRED.
- 10 PROVIDE ONE 20A, 120V, 1P GFCI DUPLEX RECEPTACLE UNDER KITCHEN SINK FOR DISPOSAL POWER CONNECTION.



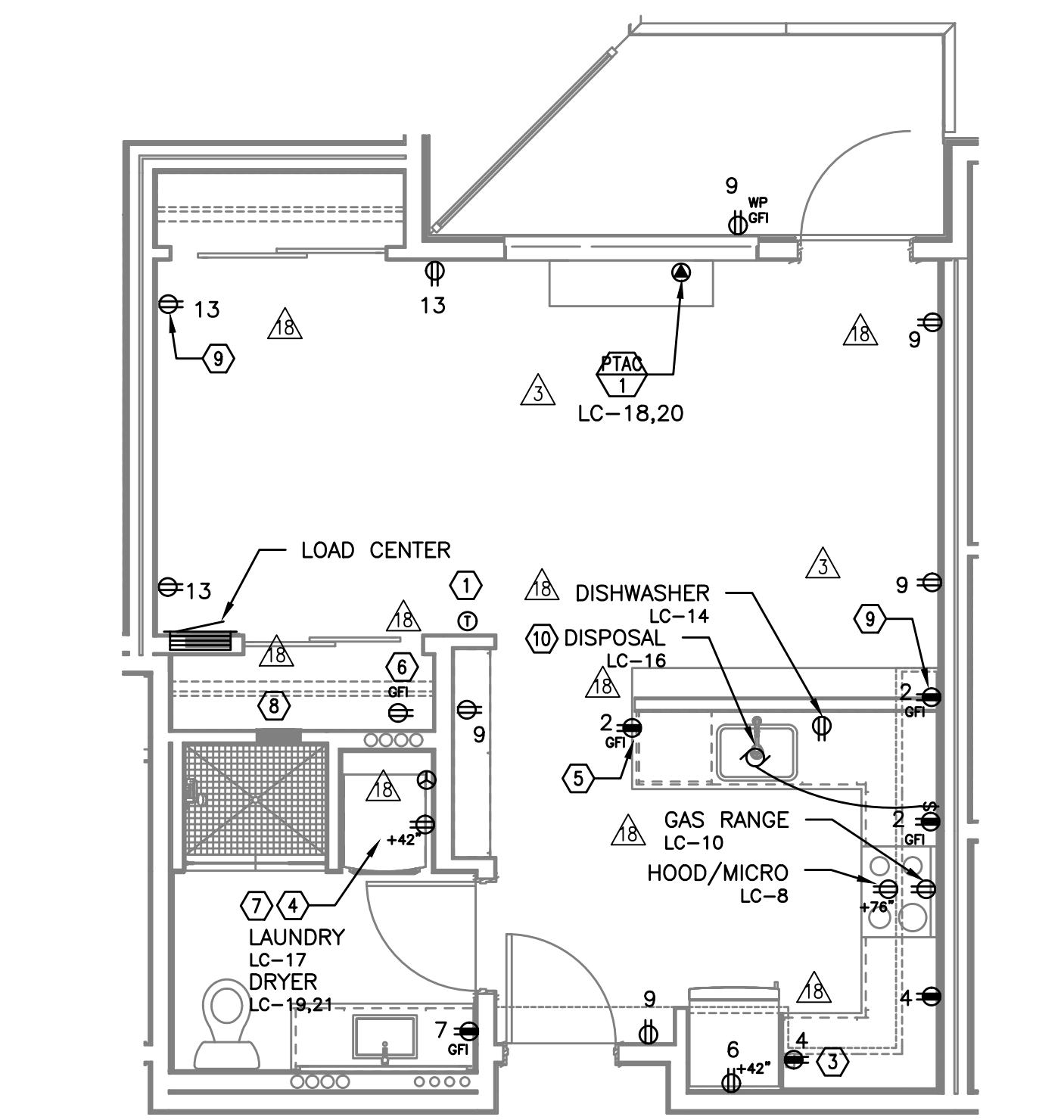
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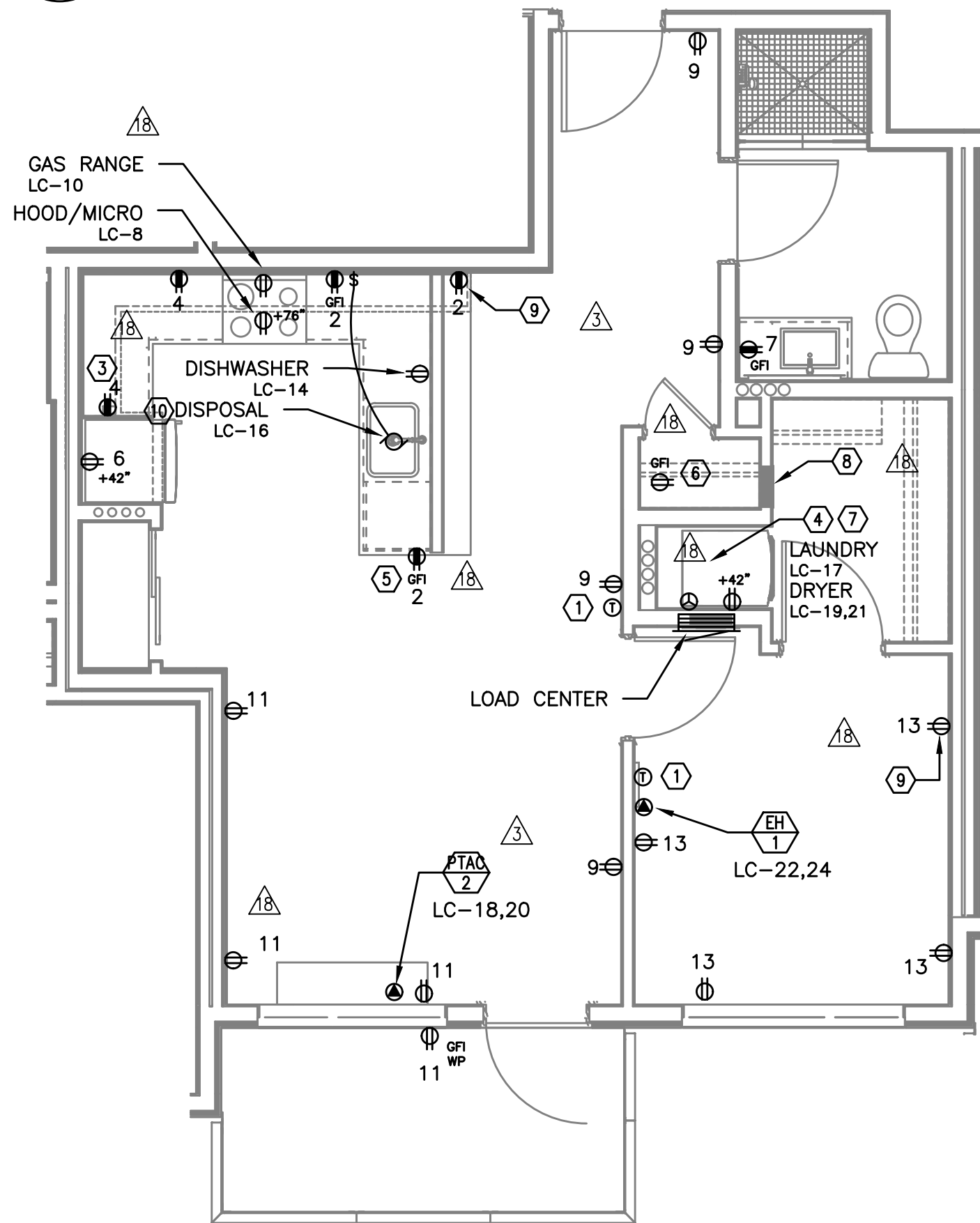
REVISIONS	
3	09.09.16 COORDINATION
8	06.30.17 COORDINATION
10	07.14.17 COORDINATION

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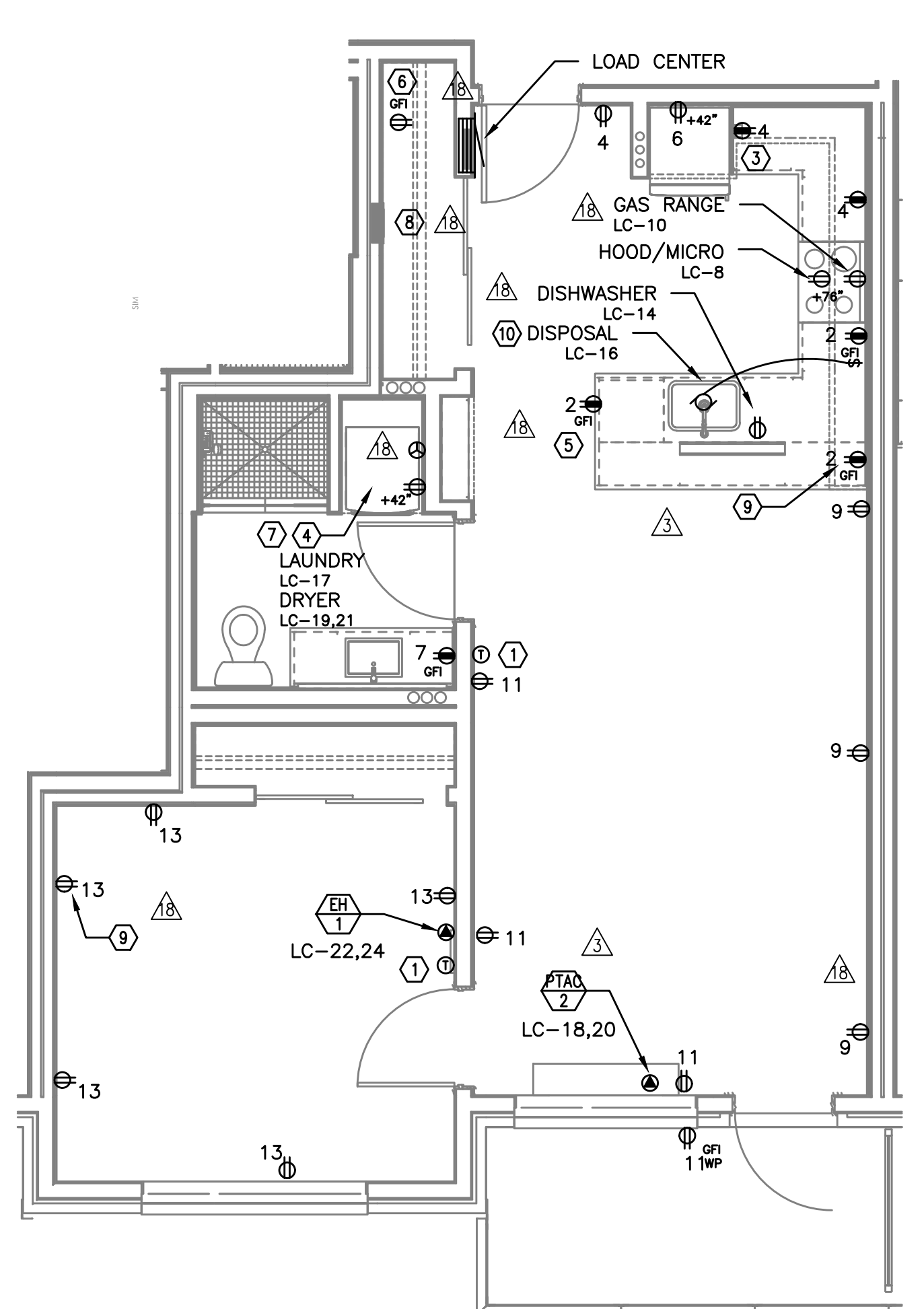
SHEET:
E4.12



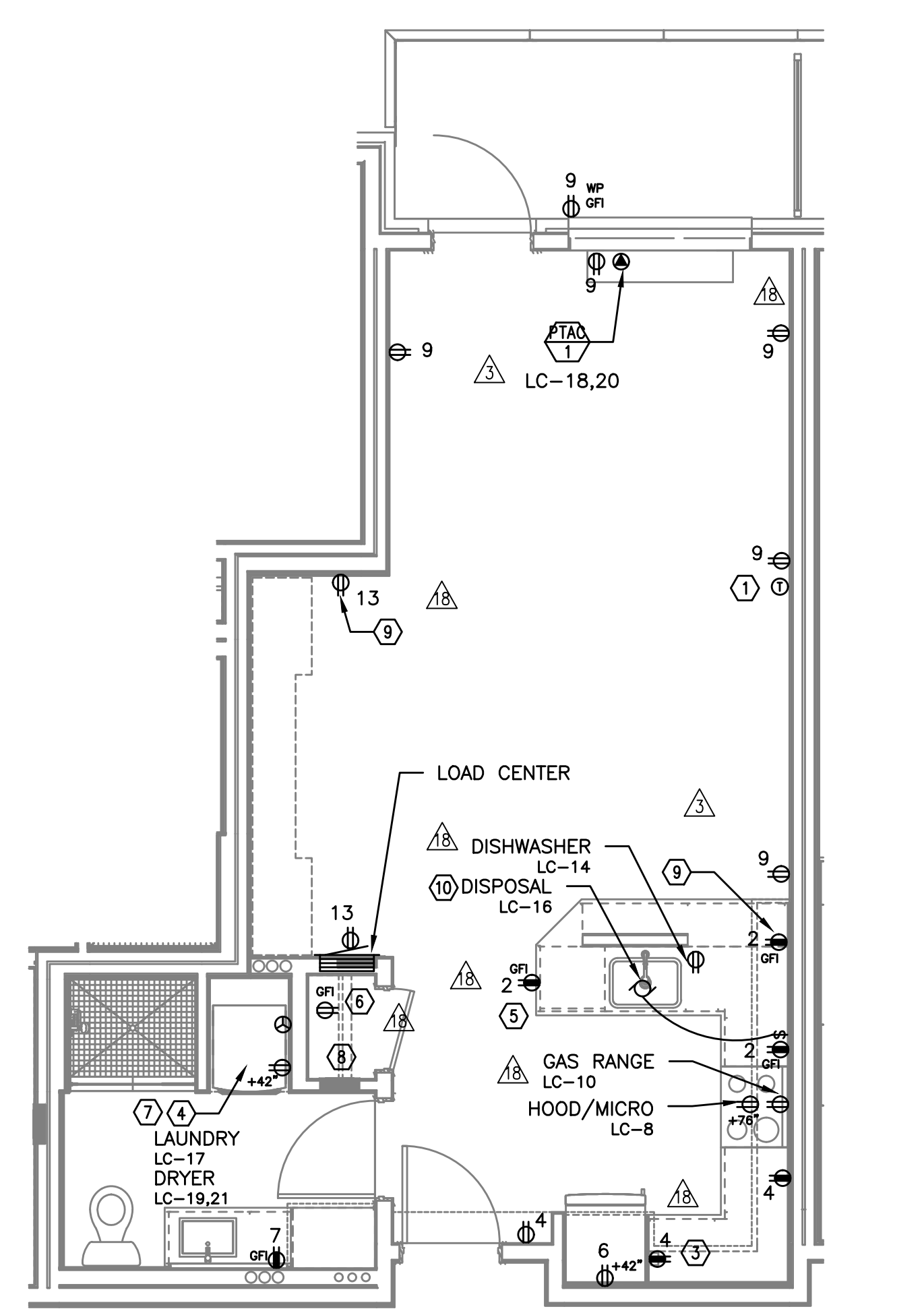
1 UNIT TYPE 'D' - POWER
E4.12 SCALE: 1/4" = 1'-0"



2 UNIT TYPE 'E' - POWER
E4.12 SCALE: 1/4" = 1'-0"



3 UNIT TYPE 'F' - POWER
E4.12 SCALE: 1/4" = 1'-0"



4 UNIT TYPE 'G' - POWER
E4.12 SCALE: 1/4" = 1'-0"

GENERAL NOTES (APARTMENT UNITS):

- 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 AND G2.01 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 E1.14 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

KEYED NOTES (APARTMENT UNITS):

- 1 PROVIDE WIRE CONNECTION FOR THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- 2 FOR UNITS USING MINI-SPLIT SYSTEMS, PROVIDE INTERCONNECTION BETWEEN INDOOR AND OUTDOOR UNITS AS REQUIRED. COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- 3 RECESSED 20A, 1P GFCI RATED, POP-UP COUNTER TOP RECEPTACLE, LEW ELECTRIC PUR20 SERIES OR APPROVED EQUAL. FINISH PER OWNER'S DIRECTION.
- 4 REFER TO DETAIL 4/E1.23 FOR TYPICAL LAUNDRY ALCOVE RECEPTACLE LOCATIONS. COORDINATE INSTALLATION WITH MECHANICAL & PLUMBING CONTRACTOR.
- 5 MOUNT DEVICES HORIZONTALLY, JUST UNDER THE EDGE OF THE COUNTER TOP.
- 6 PROVIDE ONE DEDICATED GFCI RATED 20A, 120V, 1P RECEPTACLE, LOCATED NEAR WATER SERVICE ENTRY INTO UNIT FOR WATER METER. MOUNT CLOSE TO CEILING AND CIRCUIT FROM TENANT PANEL. CONSULT PLUMBING PLANS AND COORDINATE EXACT LOCATION PRIOR TO ROUGH IN.
- 7 PROVIDE POWER CONNECTION FOR DRYER BOOSTER FAN WHERE REQUIRED. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION PRIOR TO ROUGH IN.
- 8 PROVIDE ONE 15A, RECEPTACLE CIRCUIT FROM TENANT LOAD CENTER FOR COMCAST SMART PANEL. COORDINATE WORK WITH SERVICE PROVIDER FOR EXACT LOCATION AND FINAL CONNECTION.
- 9 PROVIDE ONE 20A, 120V, 1P RECEPTACLE WITH USB PORT, MOUNTED AT 48" A.F.F. AT KITCHEN ISLAND/PENINSULA COUNTER & AT 18" AFF IN BEDROOMS. CONSULT ARCHITECT AND/OR INTERIOR DESIGNER FOR ADDITIONAL LOCATIONS WHERE REQUIRED.
- 10 PROVIDE ONE 20A, 120V, 1P GFCI DUPLEX RECEPTACLE UNDER KITCHEN SINK FOR DISPOSAL POWER CONNECTION.

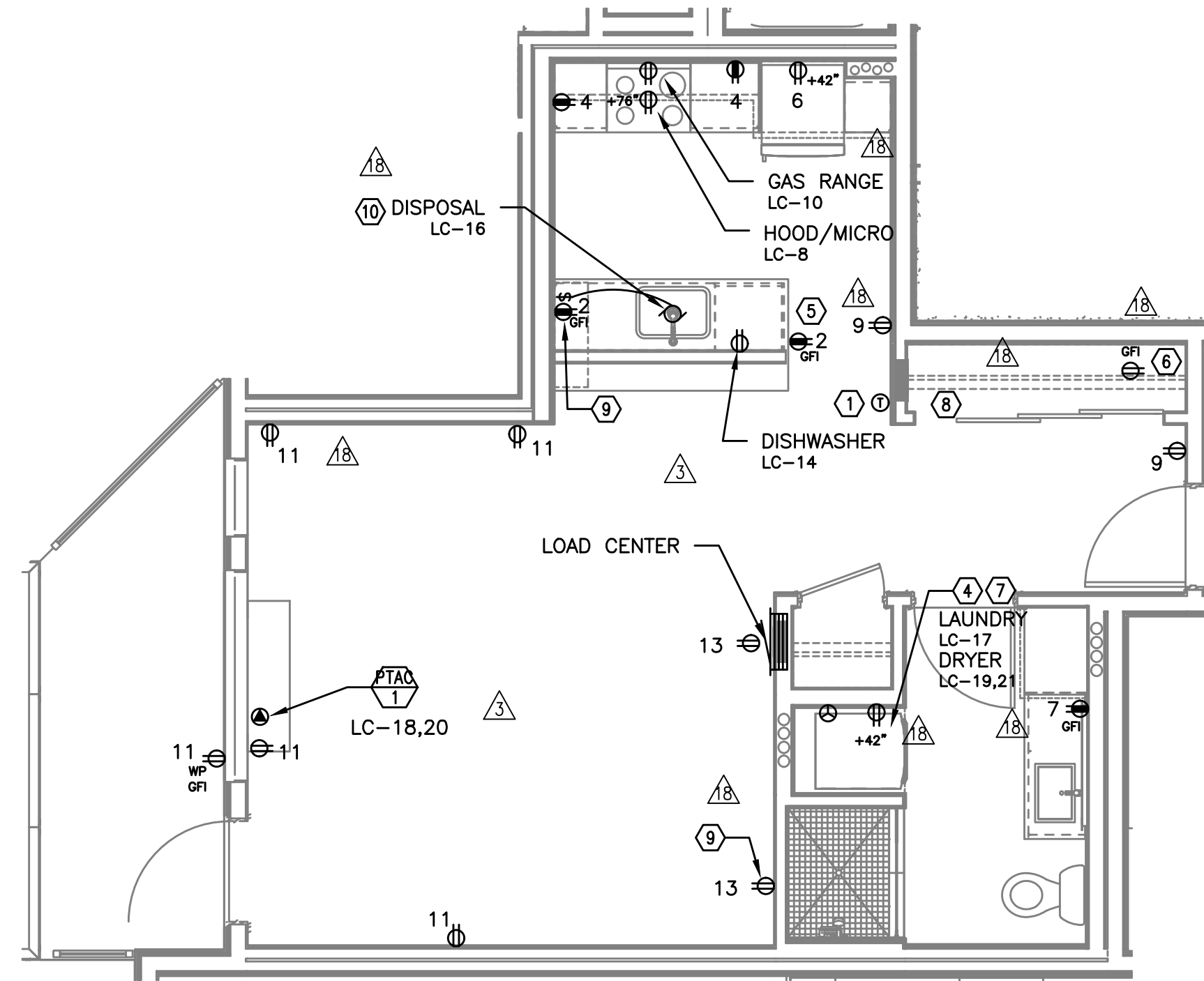
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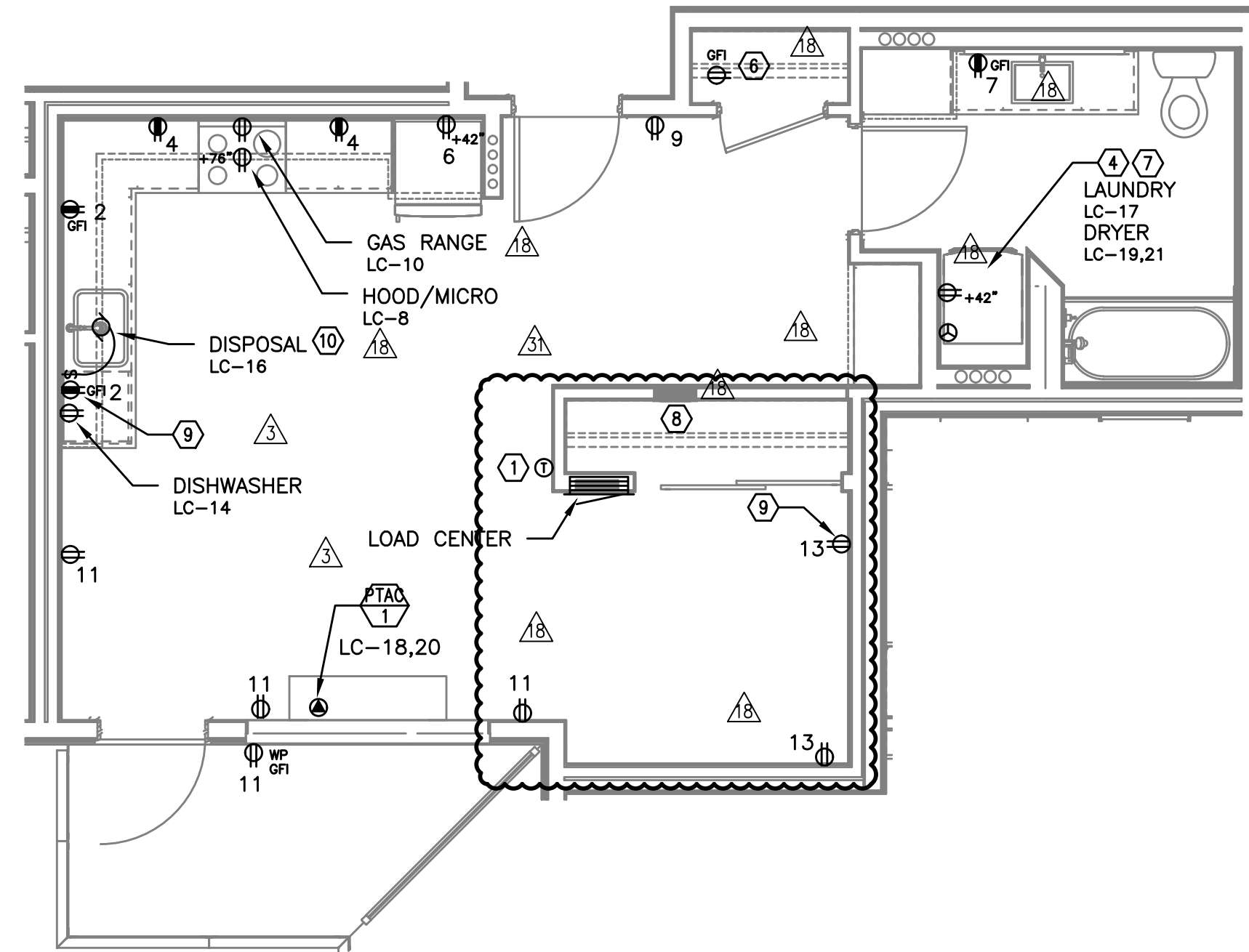
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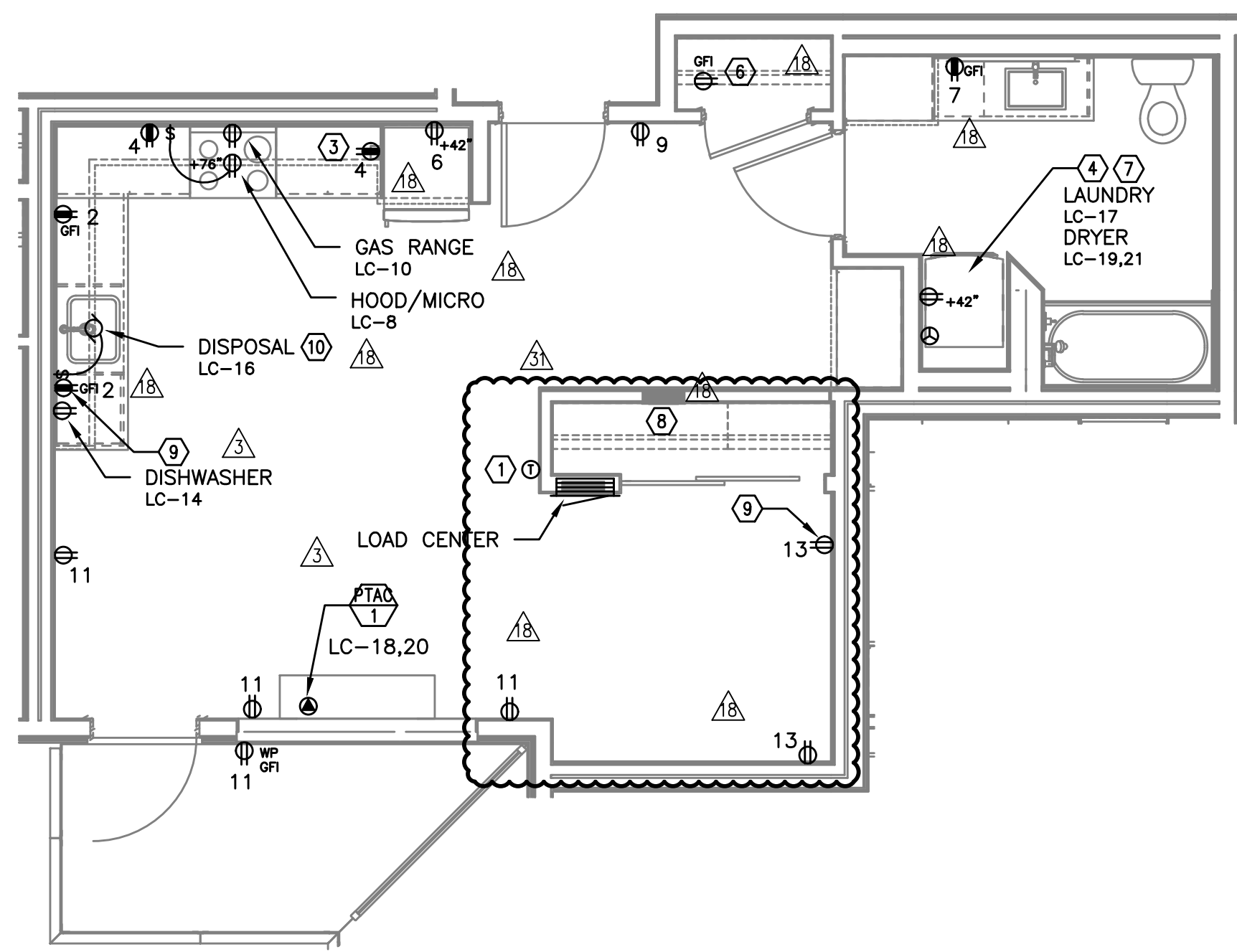
REVISIONS	
09.09.16	COORDINATION
06.30.17	COORDINATION
07.14.17	COORDINATION
02.02.18	COORDINATION



1 UNIT TYPE 'H' - POWER
E4.13 SCALE: 1/4" = 1'-0"



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



2 UNIT TYPE 'I-ADA' - POWER
E4.13 SCALE: 1/4" = 1'-0"

GENERAL NOTES (APARTMENT UNITS):

- 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 AND G2.01 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 E1.14 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

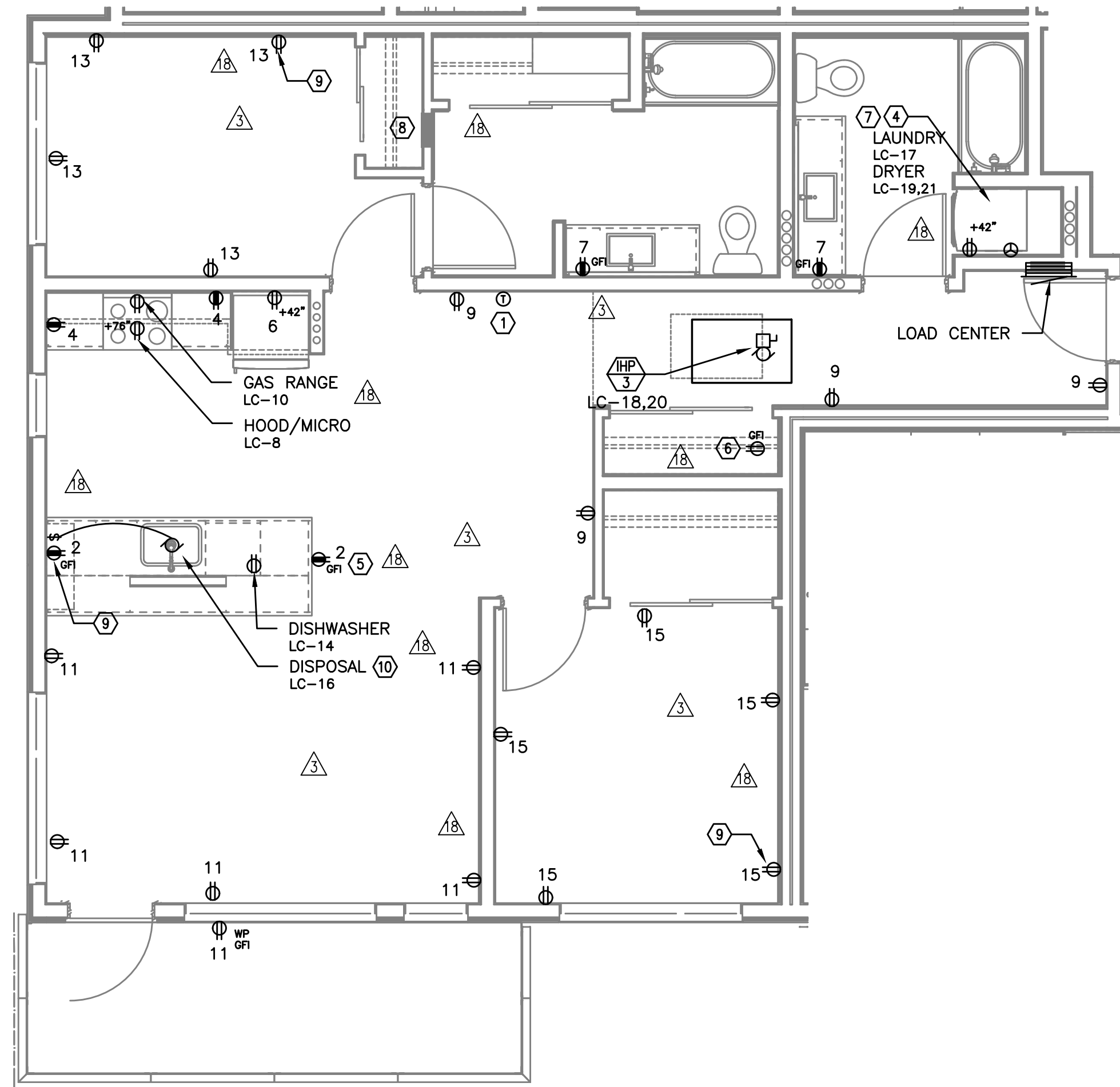
KEYED NOTES (APARTMENT UNITS):

- ① PROVIDE WIRE CONNECTION FOR THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- ② FOR UNITS USING MINI-SPLIT SYSTEMS, PROVIDE INTERCONNECTION BETWEEN INDOOR AND OUTDOOR UNITS AS REQUIRED. COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- ③ RECESSED 20A, 1P GFIC RATED, POP-UP COUNTER TOP RECEPTACLE, LEW ELECTRIC PUR20 SERIES OR APPROVED EQUAL. FINISH PER OWNER'S DIRECTION.
- ④ REFER TO DETAIL 4/E1.23 FOR TYPICAL LAUNDRY ALCOVE RECEPTACLE LOCATIONS. COORDINATE INSTALLATION WITH MECHANICAL & PLUMBING CONTRACTOR.
- ⑤ MOUNT DEVICES HORIZONTALLY, JUST UNDER THE EDGE OF THE COUNTER TOP.
- ⑥ PROVIDE ONE DEDICATED GFIC RATED 20A, 120V, 1P RECEPTACLE, LOCATED NEAR WATER SERVICE ENTRY INTO UNIT FOR WATER METER. MOUNT CLOSE TO CEILING AND CIRCUIT FROM TENANT PANEL. CONSULT PLUMBING PLANS AND COORDINATE EXACT LOCATION PRIOR TO ROUGH IN.
- ⑦ PROVIDE POWER CONNECTION FOR DRYER BOOSTER FAN WHERE REQUIRED. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION PRIOR TO ROUGH IN.
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- ⑩ PROVIDE ONE 20A, 120V, 1P GFIC DUPLEX RECEPTACLE UNDER KITCHEN SINK FOR DISPOSAL POWER CONNECTION.

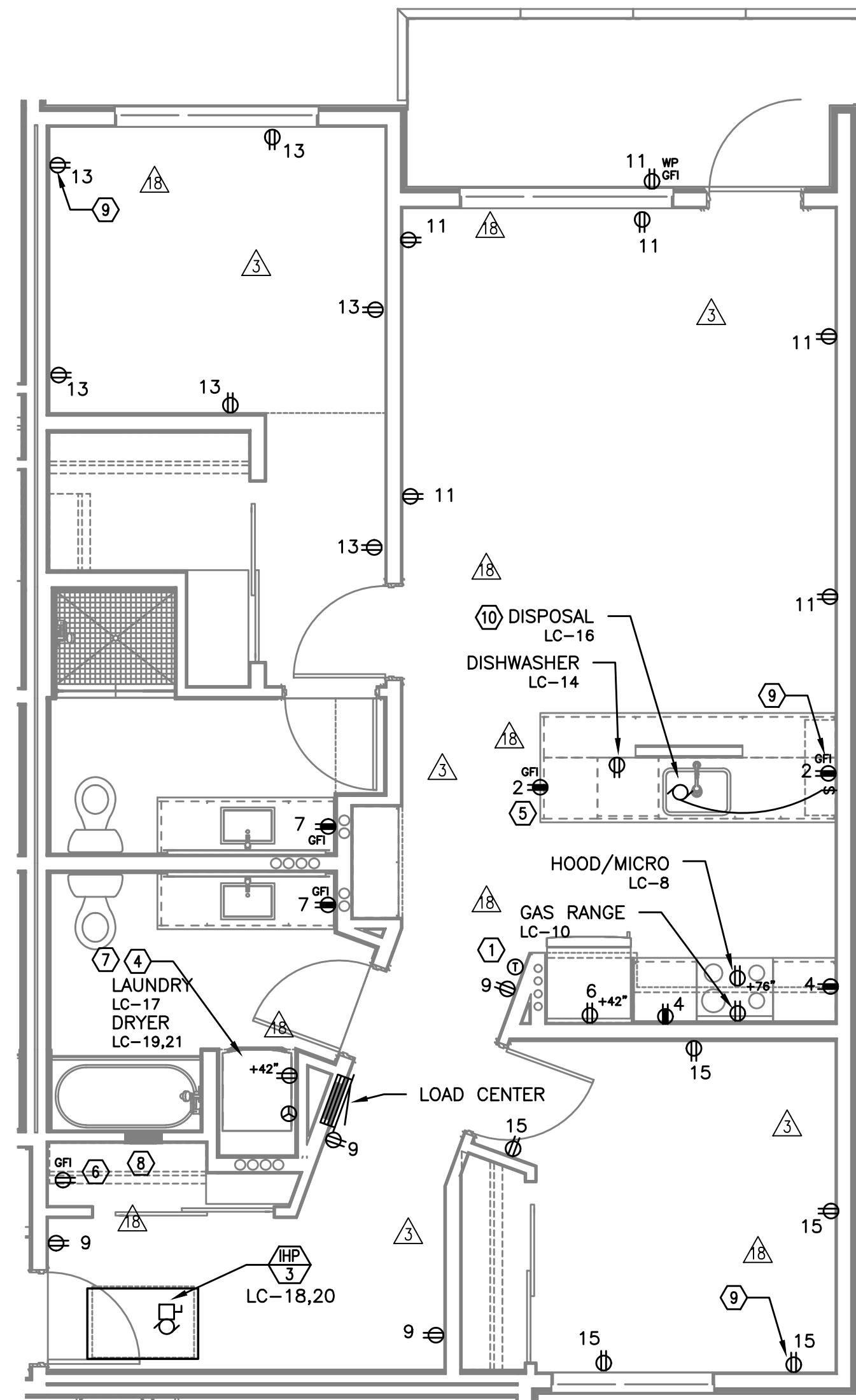
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SHEET:
E4.13

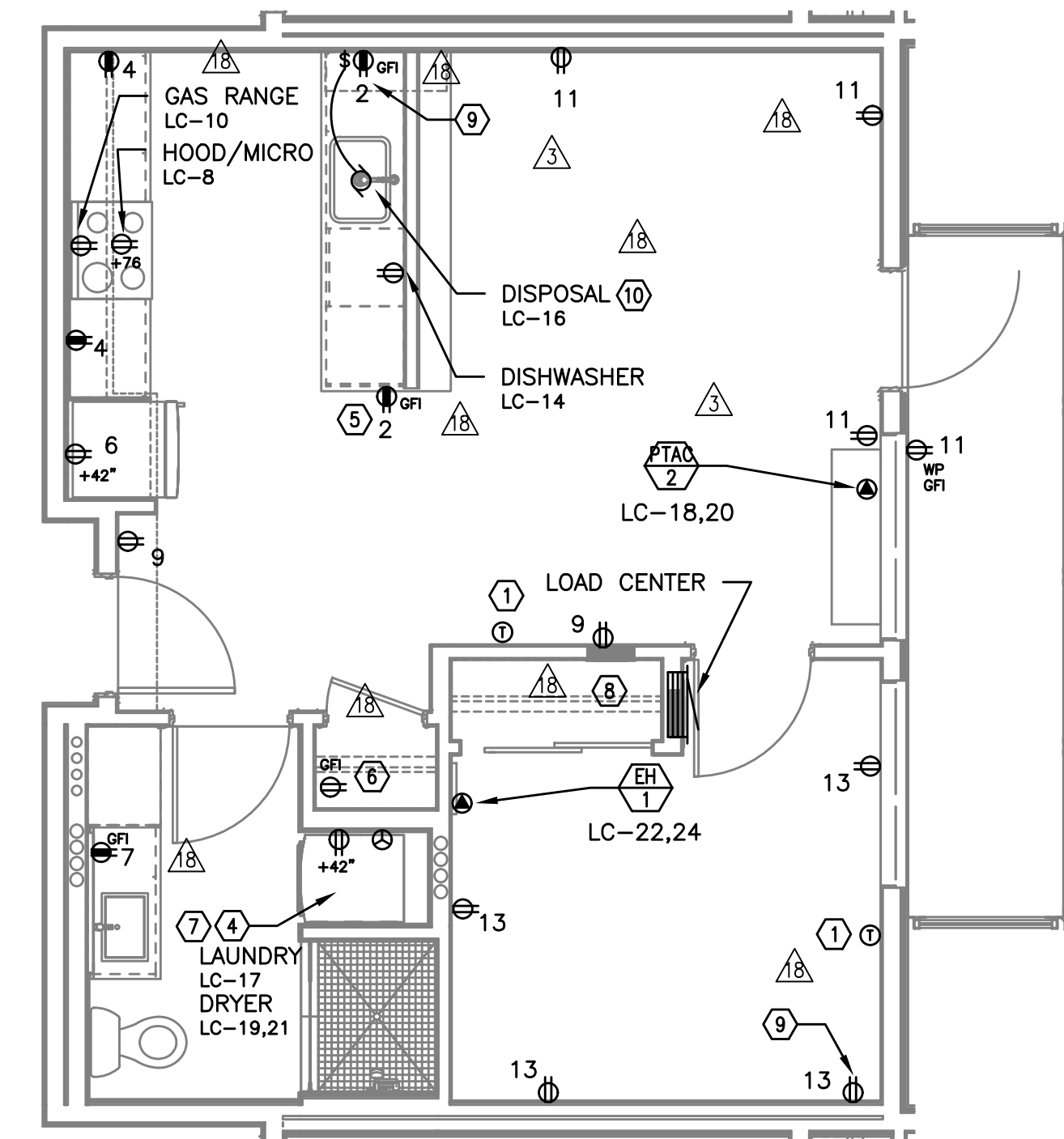
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1 UNIT TYPE 'J' - POWER
E4.14 SCALE: 1/4" = 1'-0"



1 UNIT TYPE 'K' - POWER
E4.14 SCALE: 1/4" = 1'-0"



2 UNIT TYPE 'L' - POWER
E4.14 SCALE: 1/4" = 1'-0"

GENERAL NOTES (APARTMENT UNITS):

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- ⑦ PROVIDE POWER CONNECTION FOR DRYER BOOSTER FAN WHERE REQUIRED. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION PRIOR TO ROUGH IN.
- ⑧ PROVIDE ONE 15A RECEPTACLE CIRCUIT FROM TENANT LOAD CENTER FOR COMCAST SMART PANEL. COORDINATE WORK WITH SERVICE PROVIDER FOR EXACT LOCATION AND FINAL CONNECTION.
- ⑨ PROVIDE ONE 20A, 120V, 1P RECEPTACLE WITH USB PORT, MOUNTED AT 48" A.F.F AT KITCHEN ISLAND/PENINSULA COUNTER & AT 18" AFF IN BEDROOMS. CONSULT ARCHITECT AND/OR INTERIOR DESIGNER FOR ADDITIONAL LOCATIONS WHERE REQUIRED.
- ⑩ PROVIDE ONE 20A, 120V, 1P GFCI DUPLEX RECEPTACLE UNDER KITCHEN SINK FOR DISPOSAL POWER CONNECTION.

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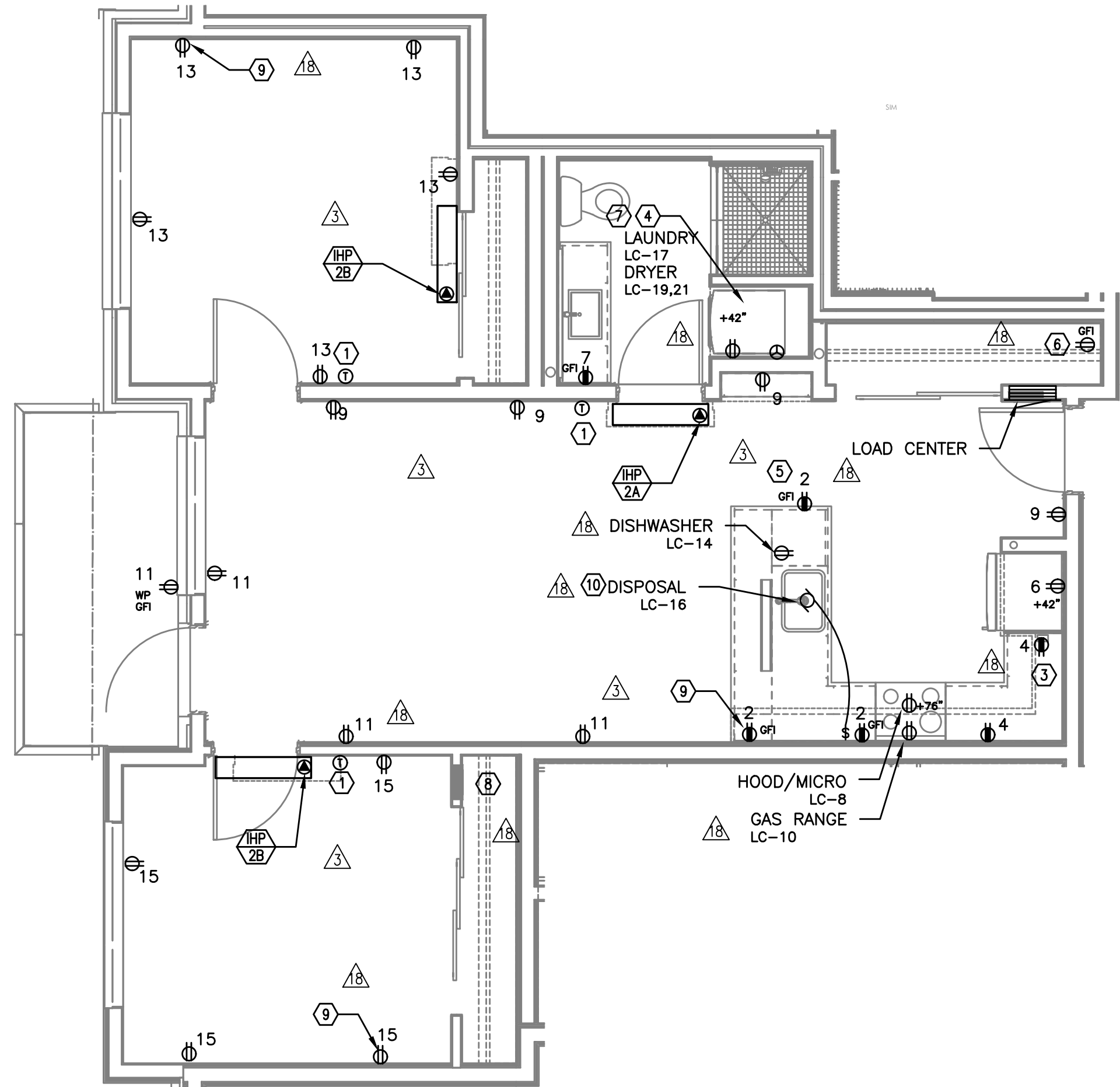
PROJECT # 20XX-XX
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REVISIONS	
①	09.09.16 COORDINATION
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③	07.14.17 COORDINATION

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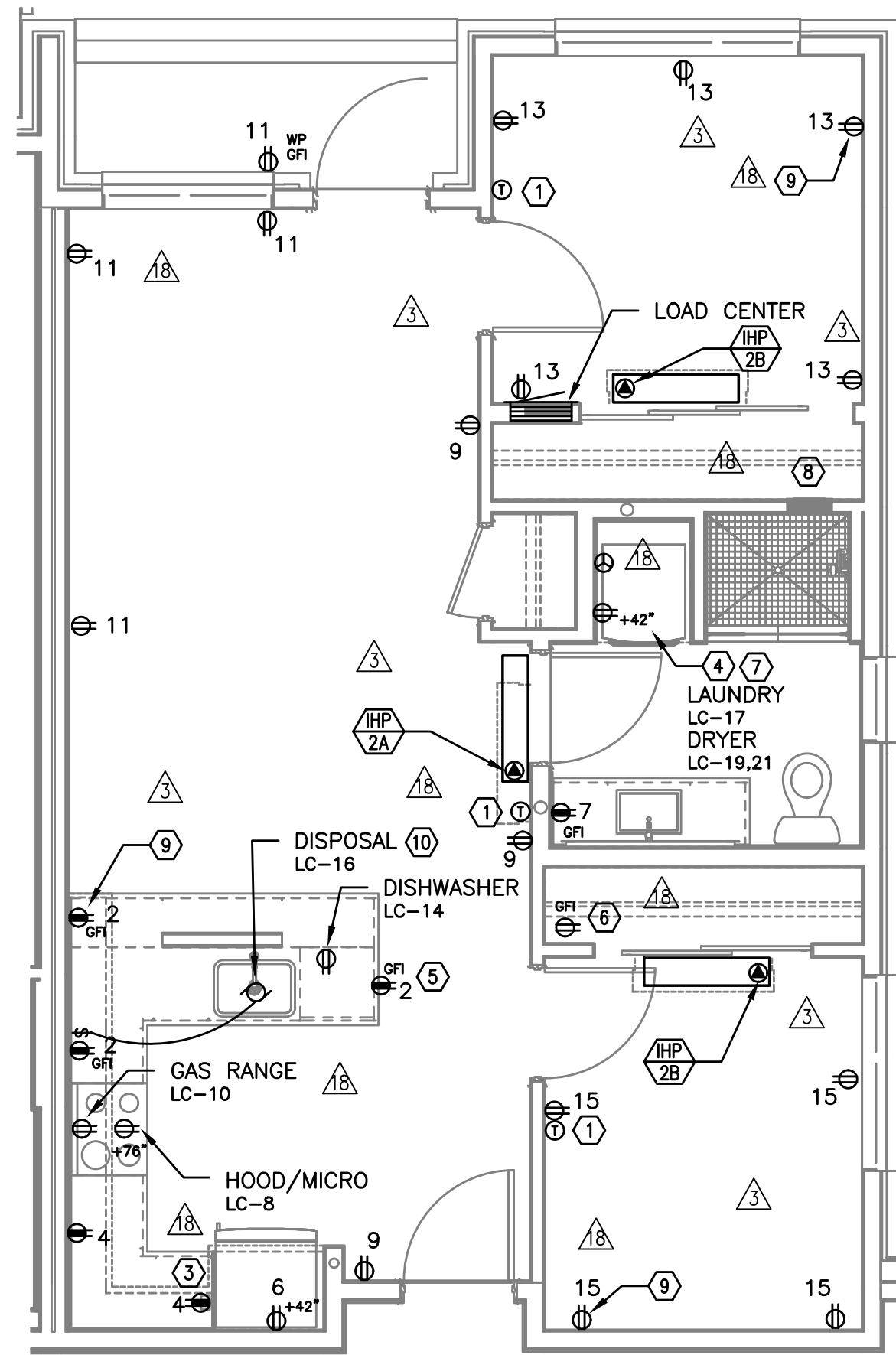
E4.14



1 UNIT TYPE 'M' - POWER
E4.15 SCALE: 1/4" = 1'-0"

GENERAL NOTES (APARTMENT UNITS):

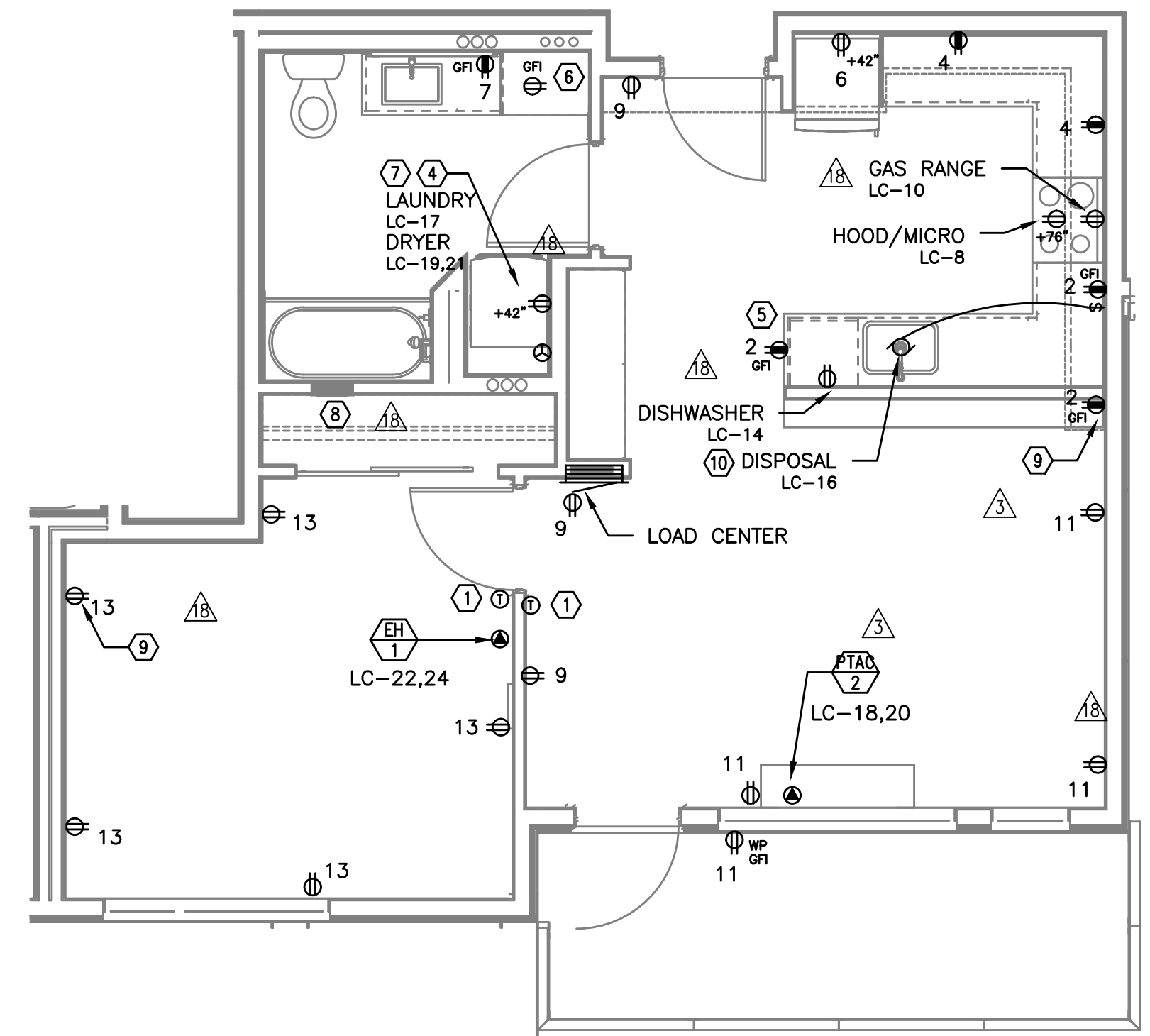
- A. KITCHEN RECEPTACLES LOCATED IN ISLANDS OR PENINSULAS WHERE THE BACK SPLASH WILL NOT ACCOMMODATE VERTICAL PLACEMENT OR THE DUPLEX RECEPTACLE, THE CONTRACTOR SHALL ROTATE THE DEVICE 90 DEGREES SO THAT THE RECEPTACLE IS INSTALLED HORIZONTALLY.
- B. REFER TO DETAILS ON SHEET E1.23 AND G2.01 FOR ADDITIONAL 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 E1.14 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.



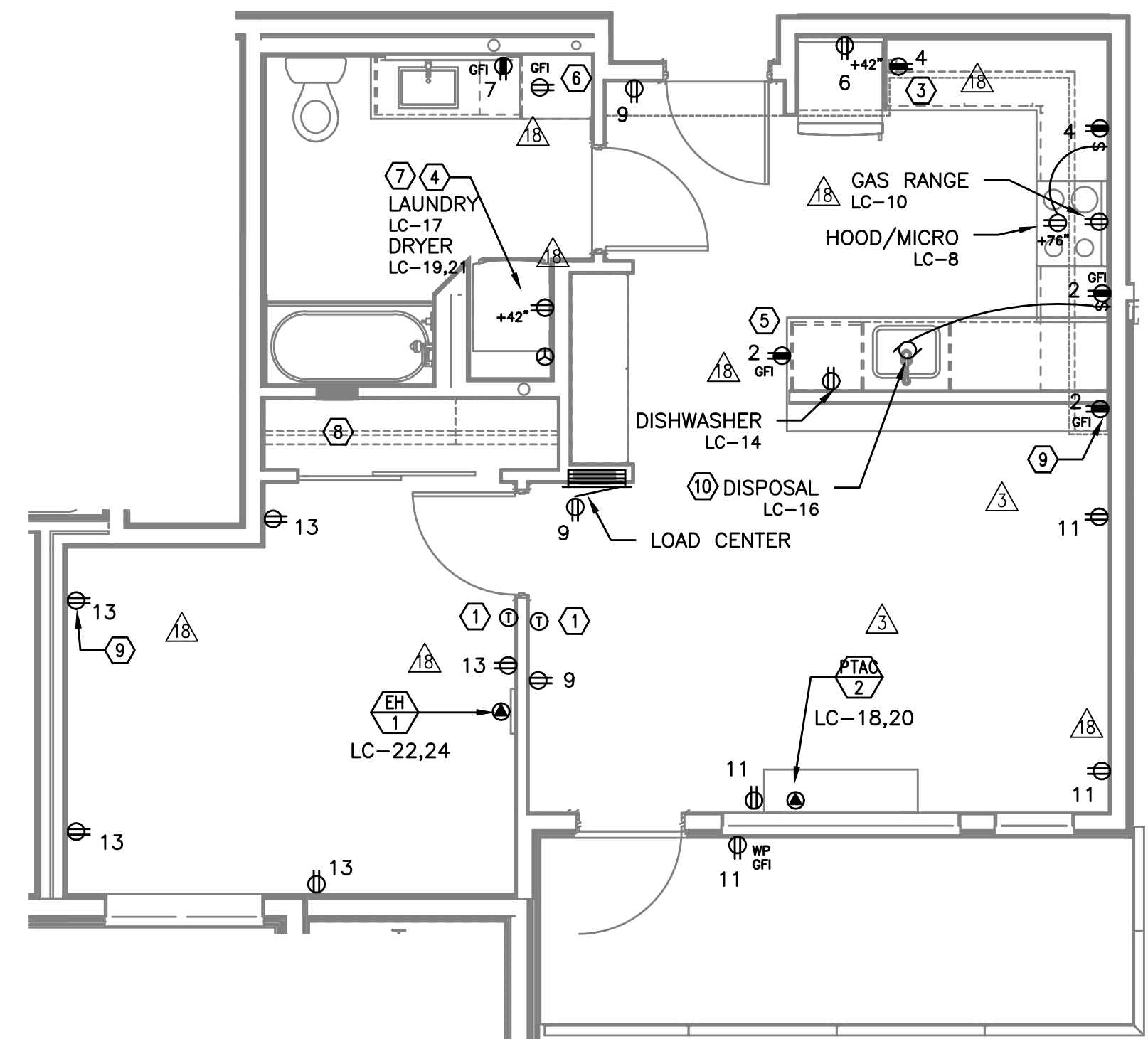
2 UNIT TYPE 'N' - POWER
E4.15 SCALE: 1/4" = 1'-0"

KEYED NOTES (APARTMENT UNITS):

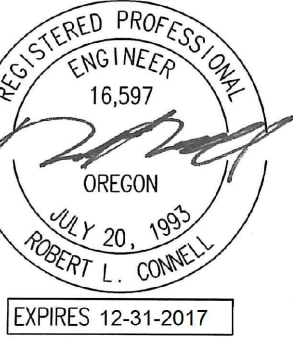
- 1 PROVIDE WIRE CONNECTION FOR THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- 2 FOR UNITS USING MINI-SPLIT SYSTEMS, PROVIDE INTERCONNECTION BETWEEN INDOOR AND OUTDOOR UNITS AS REQUIRED. COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
- 3 RECESSED 20A, 1P GFCI RATED, POP-UP COUNTER TOP RECEPTACLE, LEW ELECTRIC PUR20 SERIES OR APPROVED EQUAL. FINISH PER OWNER'S DIRECTION.
- 4 REFER TO DETAIL 4/E1.23 FOR TYPICAL LAUNDRY ALCOVE RECEPTACLE LOCATIONS. COORDINATE INSTALLATION WITH MECHANICAL & PLUMBING CONTRACTOR.
- 5 MOUNT DEVICES HORIZONTALLY, JUST UNDER THE EDGE OF THE COUNTER TOP.
- 6 PROVIDE ONE DEDICATED GFCI RATED 20A, 120V, 1P RECEPTACLE, LOCATED NEAR WATER SERVICE ENTRY INTO UNIT FOR WATER METER. MOUNT CLOSE TO CEILING AND CIRCUIT FROM TENANT PANEL. CONSULT PLUMBING PLANS AND COORDINATE EXACT LOCATION PRIOR TO ROUGH IN.
- 7 PROVIDE POWER CONNECTION FOR DRYER BOOSTER FAN WHERE REQUIRED. REFER TO MECHANICAL PLANS FOR ADDITIONAL INFORMATION PRIOR TO ROUGH IN.
- 8 PROVIDE ONE 15A, RECEPTACLE CIRCUIT FROM TENANT LOAD CENTER FOR COMCAST SMART PANEL. COORDINATE WORK WITH SERVICE PROVIDER FOR EXACT LOCATION AND FINAL CONNECTION.
- 9 PROVIDE ONE 20A, 120V, 1P RECEPTACLE WITH USB PORT, MOUNTED AT 48" A.F.F AT KITCHEN ISLAND/PENNINSULA COUNTER & AT 18" AFF IN BEDROOMS. CONSULT ARCHITECT AND/OR INTERIOR DESIGNER FOR ADDITIONAL LOCATIONS WHERE REQUIRED.
- 10 PROVIDE ONE 20A, 120V, 1P GFCI DUPLEX RECEPTACLE UNDER KITCHEN SINK FOR DISPOSAL POWER CONNECTION.



3 UNIT TYPE 'O' - POWER
E4.15 SCALE: 1/4" = 1'-0"



4 UNIT TYPE 'O-ADA' - POWER
E4.15 SCALE: 1/4" = 1'-0"



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 # 20XX-XX
DATE: 03-31-2016

REVISIONS	
3	09.09.16 COORDINATION
6	06.30.17 COORDINATION
7	07.14.17 COORDINATION

VANCOUVER AVE PHASE I
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SHEET:

E4.15

M
E
I
A
INC. Consulting Engineers
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Portland, OR 97214
PH: (503) 234-0548
FAX: (503) 234-0877
WWW.MEIA-ENG.COM
CONTACT: DENISE TAYLOR



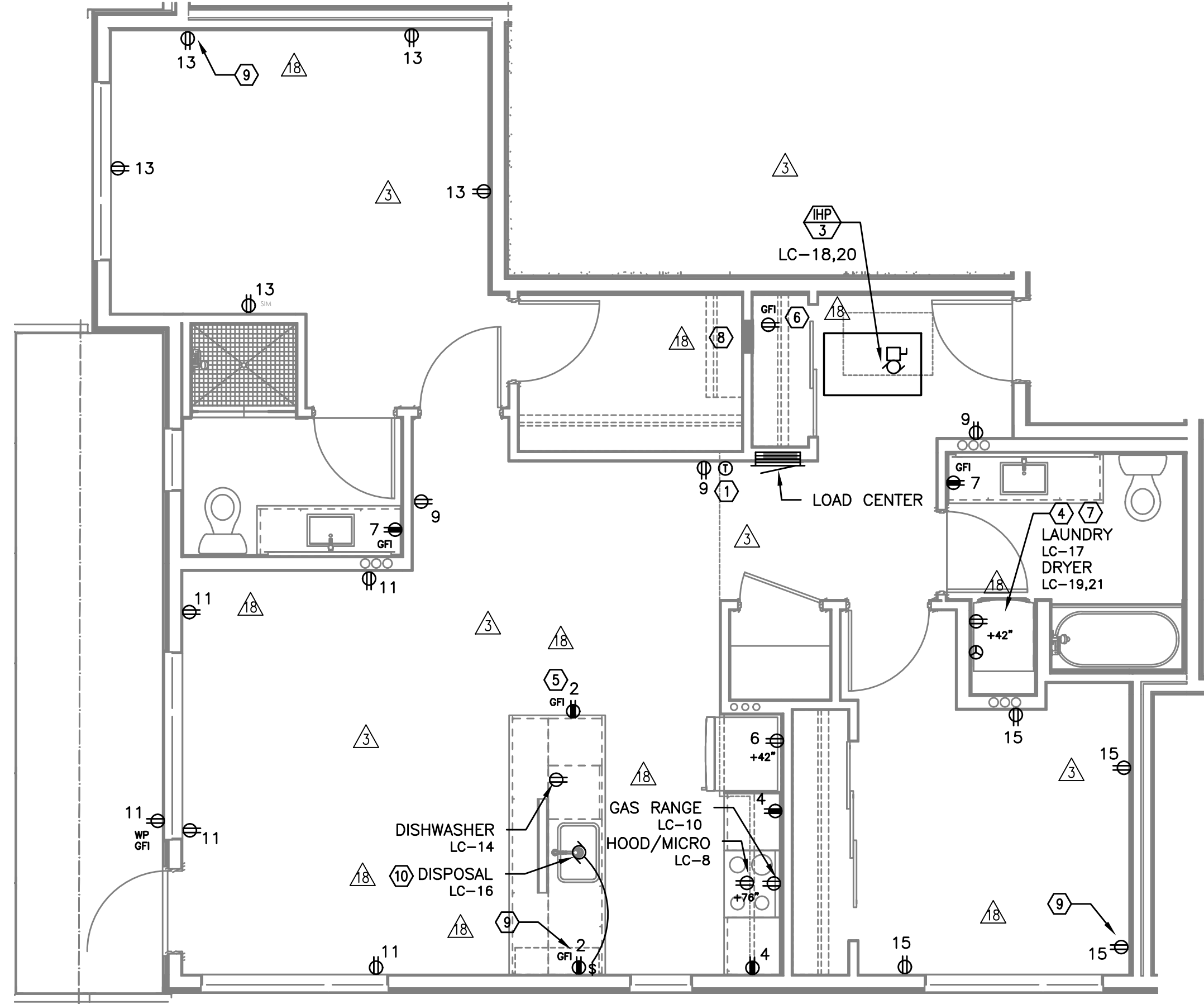
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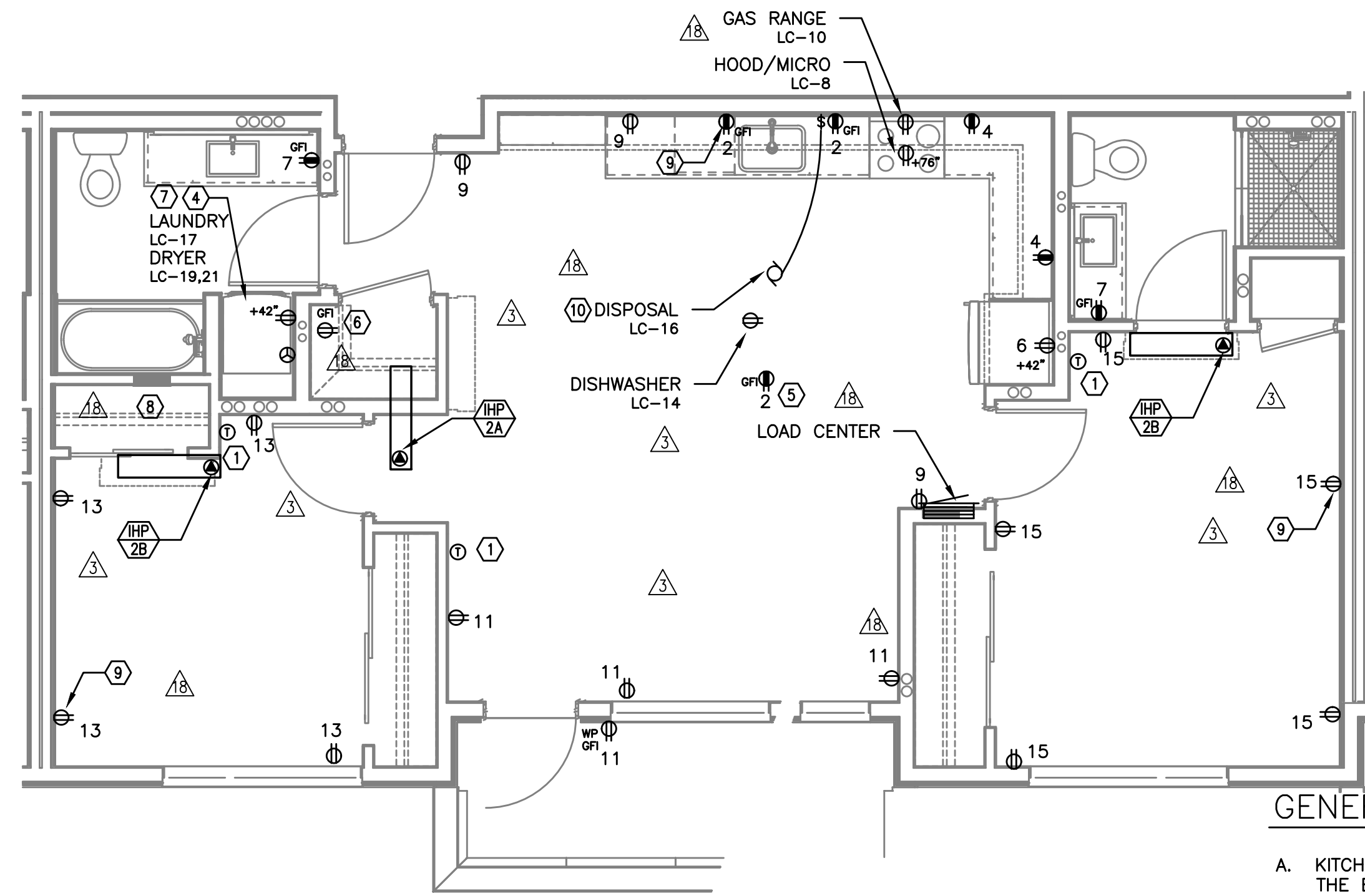
REVISIONS	
09.09.16	COORDINATION
06.30.17	COORDINATION
07.14.17	COORDINATION

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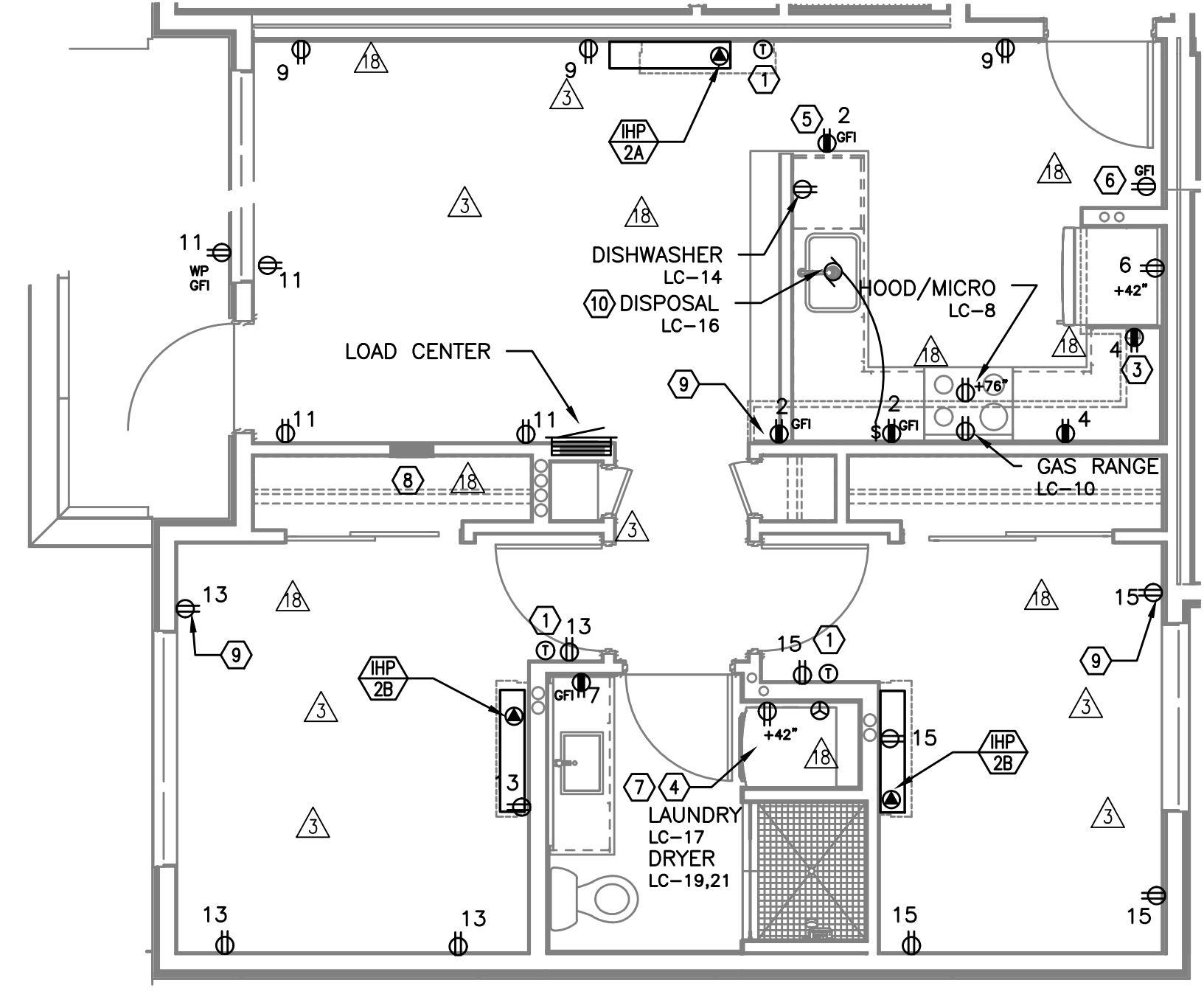
SHEET:
E4.16



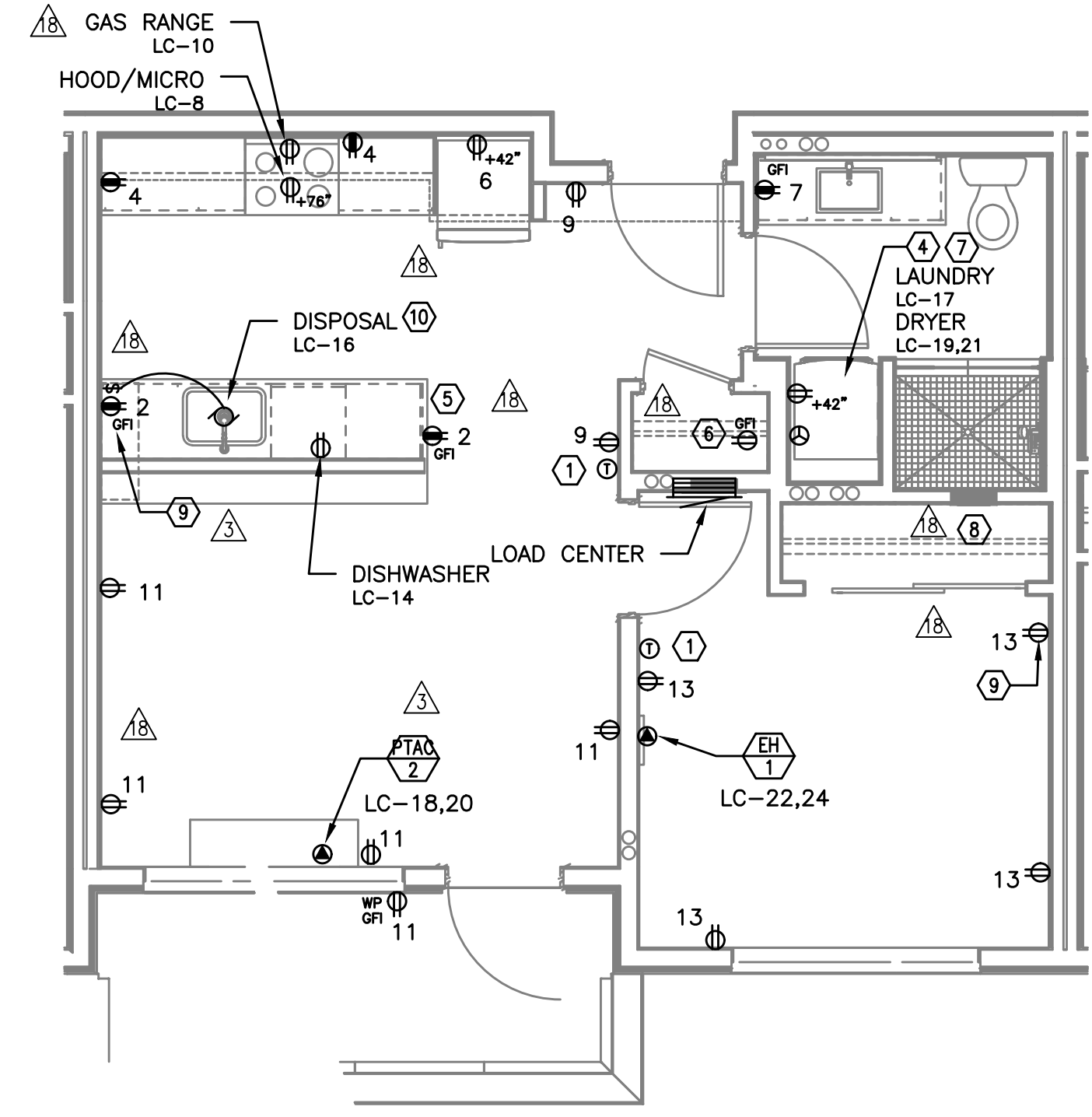
1 UNIT TYPE 'P' - POWER
E4.16 SCALE: 1/4" = 1'-0"



3 UNIT TYPE 'R' - POWER
E4.16 SCALE: 1/4" = 1'-0"



2 UNIT TYPE 'Q' - POWER
E4.16 SCALE: 1/4" = 1'-0"



4 UNIT TYPE 'S' - POWER
E4.16 SCALE: 1/4" = 1'-0"

GENERAL NOTES (APARTMENT UNITS):

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- B. REFER TO DETAILS ON SHEET E1.23 AND G2.01 FOR ADDITIONAL INFORMATION REGARDING ADA REACH REQUIREMENTS FOR RECEPTACLE AND SWITCH MOUNTING HEIGHT.
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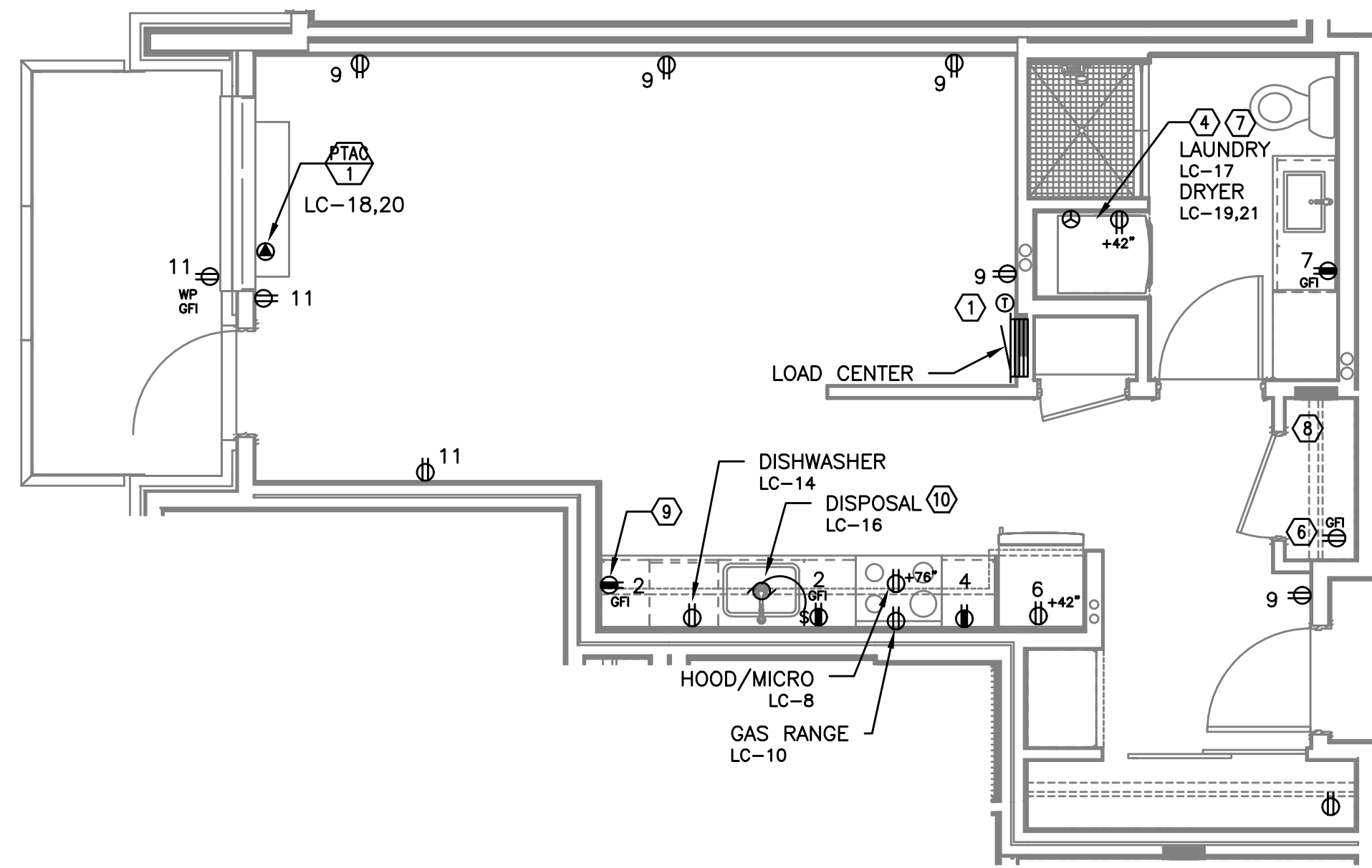
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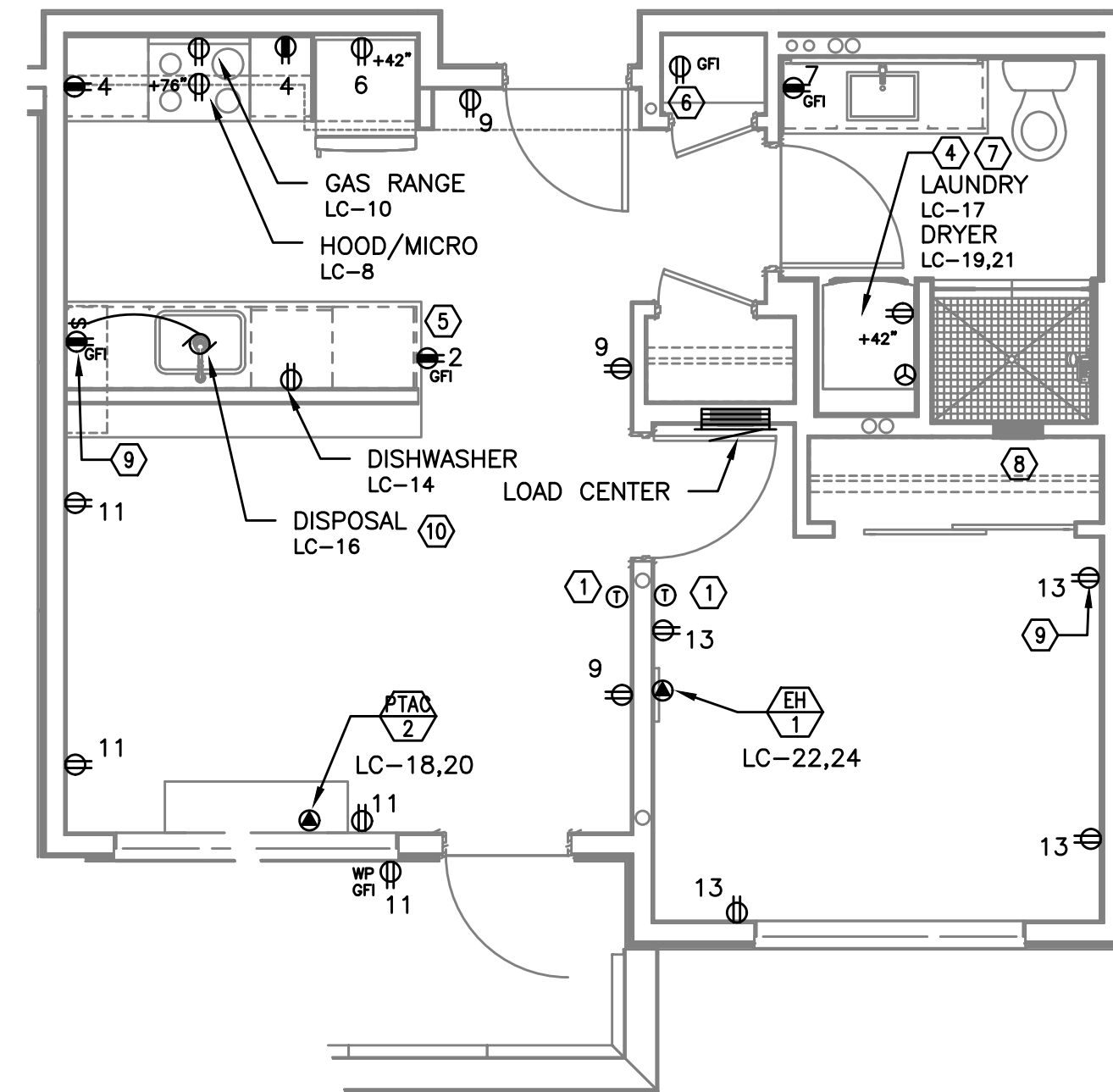
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PROJECT # 20XX-XX
DATE: 03-31-2016

REVISIONS	
18.06.30.17	COORDINATION
20.07.14.17	COORDINATION



1 UNIT TYPE 'T' - POWER
E4.17 SCALE: 1/4" = 1'-0"



2 UNIT TYPE 'U' - POWER
E4.17 SCALE: 1/4" = 1'-0"

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