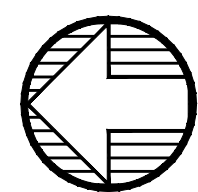
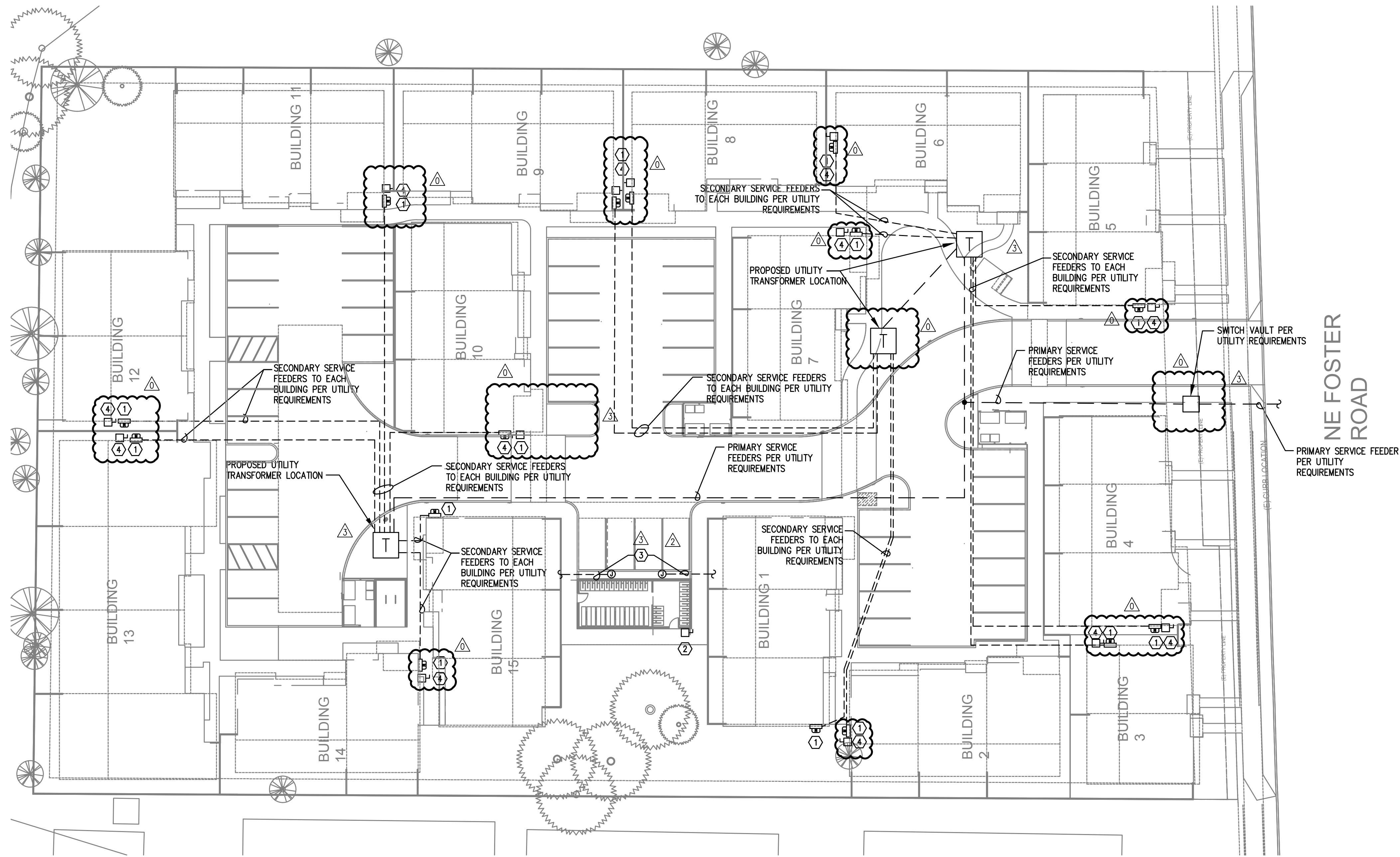


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1 SITE ELECTRICAL POWER PLAN
 E1.01 SCALE: 1" = 20'-0"

GENERAL NOTES:

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

UTILITY REQUIREMENTS

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

KEYED POWER NOTES:

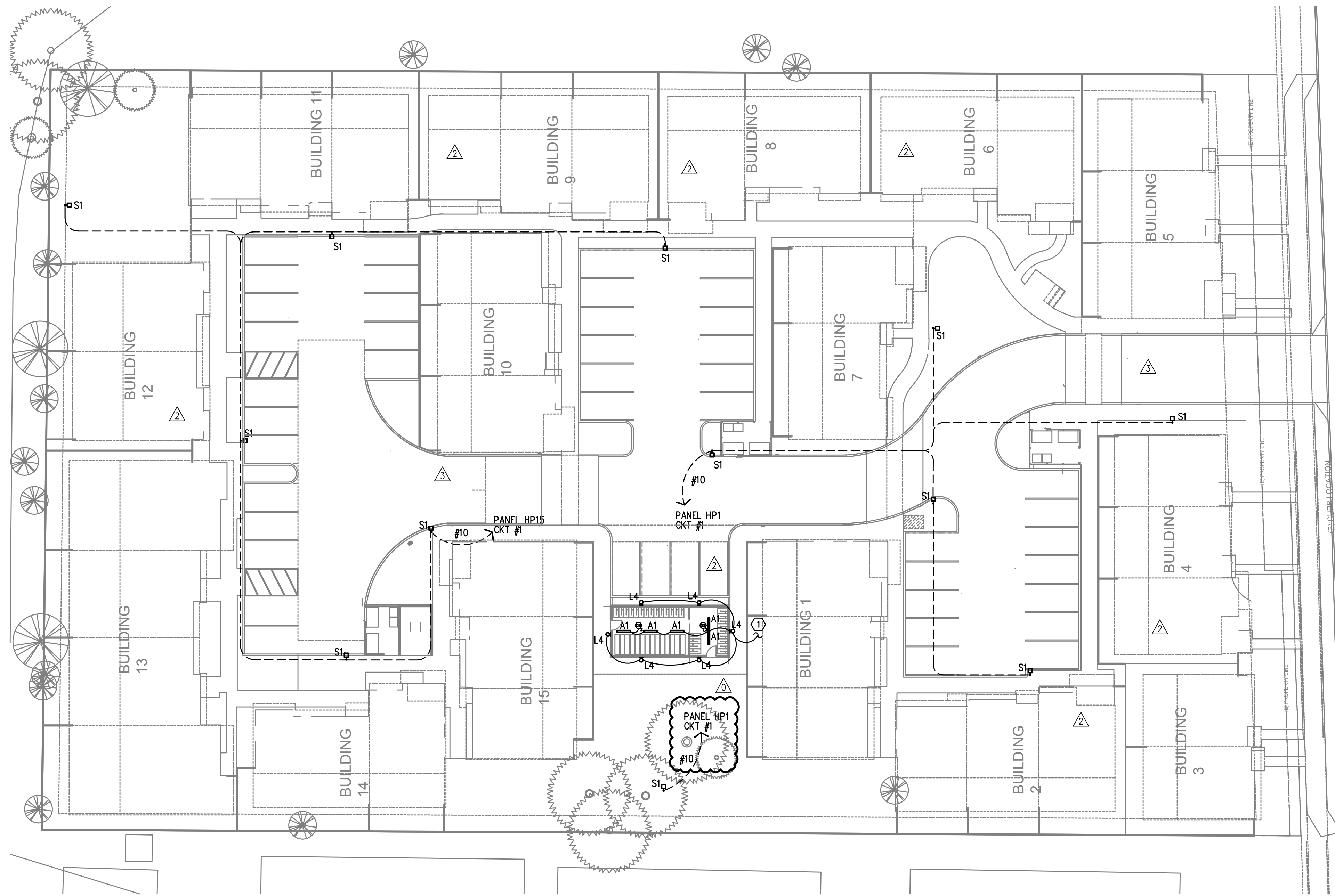
- 1. REFER TO ELECTRICAL ONE-LINE DIAGRAM AND BUILDING POWER PLANS FOR ADDITIONAL INFORMATION REGARDING "SOLAR READY" INSTALLATION REQUIREMENTS.
- 2. PROVIDE NEMA 3R 20A, 120V, 1P DISCONNECT SWITCH AT BIKE STORAGE BUILDING FOR LIGHTING FED FROM THE MAIN HOUSE PANEL LOCATED AT BUILDINGS #1. ROUTE CONDUCTORS UNDERGROUND IN 3/4" PVC CONDUIT.
- 3. PROVIDE ONE 1" SCHEDULE 40 PVC CONDUIT WITH PULL STRING, ROUTED UNDERGROUND FROM LOCATION NEAR THE HOUSE PANEL TO THE LOCATION FOR FUTURE EV CHARGING STATION. STUB-UP AND CAP AT BOTH ENDS. THE END LOCATED AT THE CHARGING STATION LOCATION TO BE FLUSH WITH GRADE.
- 4. PROVIDE ONE NEMA 3R 20A, 120V, 1P DISCONNECT SWITCH AT EACH APARTMENT BUILDING FOR LIGHTING & DEVICES FED FROM THE MAIN HOUSE PANEL LOCATED AT BUILDINGS #1 & #15. ROUTE CONDUCTORS UNDERGROUND IN 3/4" PVC CONDUIT.

REVISIONS

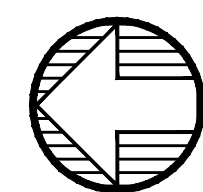
09/18/2020	REVIEW COMMENTS
10/09/2020	REVIEW COMMENTS
11/25/2020	REVIEW COMMENTS
12/07/2020	ELECTRICAL REVISIONS
04/07/2021	REVIEW COMMENTS

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NE FOSTER ROAD



1 SITE LIGHTING PLAN
E1.02 SCALE: 1" = 20'-0"

GENERAL SITE LIGHTING NOTES:

- A. ALL SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND NATION CODES.
- B. ALL PLANS ARE CONSIDERED DIAGRAMMATICAL. THEREFORE ALL EQUIPMENT SIZES AND DEVICE LOCATIONS ARE APPROXIMATE AND SUBJECT TO FIELD CONDITIONS AND PRODUCT APPROVAL.
- C. REFER TO SHEETS E1.11 FOR ONE-LINE DIAGRAM, LOAD SUMMARY INFORMATION AND TYPICAL FEEDER SCHEDULE.
- D. REFER TO E2 SERIES SHEETS FOR EXTERIOR BUILDING LIGHT LOCATIONS.
- E. REFER TO SHEET E1.14 FOR LIGHT FIXTURE SCHEDULE.
- G. SITE LIGHTING SHALL ALSO BE PROVIDED WITH DUSK-TIL-DAWN LIGHTING CONTROL AND MOTION SENSOR TO AUTOMATICALLY REDUCE LIGHT LEVELS BY 30% DURING PERIODS OF LOW ACTIVITY.
- H. BUILDING MOUNTED LIGHT FIXTURES TYPE "S2" SHALL BE CONTROLLED VIA PHOTOCELL AND SHALL ACT AS EGRESS LIGHTING IN THE EVENT OF POWER FAILURE. THESE FIXTURES ARE TO BE SEPARATE FROM TENANT CONTROLLED "PORCH" LIGHTS.

KEYED POWER NOTES:

- 1. BIKE STORAGE LIGHT FIXTURES TO BE CIRCUITED TO THE HOUSE BRANCH PANEL LOCATED AT BUILDING #1 VIA DISCONNECT SWITCH SHOWN ON SHEET E1.01. EXTERIOR LIGHT FIXTURES TO OPERATE VIA ROOF MOUNTED, FIELD ADJUSTED PHOTOCELL. PROVIDE CEILING MOUNTED OCCUPANCY SENSORS AS SHOWN FOR INTERIOR LIGHTING CONTROL. REFER TO LUMINAIRE FIXTURE SCHEDULE ON SHEET E1.14.



FOSTER TOWNHOMES

13415 SE FOSTER ROAD / PORTLAND / OR

HABITAT FOR HUMANITY

REVISIONS

- △ 09/18/2020 REVIEW COMMENTS
- △ 10/09/2020 REVIEW COMMENTS
- △ 11/25/2020 REVIEW COMMENTS
- △ 12/07/2020 ELECTRICAL REVISIONS
- △ 04/07/2021 REVIEW COMMENTS

PERMIT DOCUMENTS

ISSUE DATE 07/01/2020

SITE LIGHTING PLAN

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MFIA CIRCUIT DIRECTORY									
Loadcenter Name		mounting		location					
LC-2-Bedroom (TYPICAL)		RECESSED		200A MLO (SCCR: 10K)					
service	phase	1	2	L1	L2	no.	no.	a/p	service
LIGHTS-KITCHEN/LIVING	20/1(A)	1	*	2	20/1(A)	1	*	2	20/1(A) APPLIANCE CIRCUIT
LTS & RECEPT- BATH	20/1	3	*	4	20/1(A)	1	*	4	20/1(A) APPLIANCE CIRCUIT
LTS - BEDROOMS	20/1(A)	5	*	6	20/1	1	*	6	20/1 REFRIGERATOR
RECEPTACLES	20/1(A)	7	*	8	20/1(A)	7	*	8	20/1(A) MICRO/HOOD
RECEPTACLES	20/1(A)	9	*	10	50/2	9	*	10	50/2 RANGE
SPARE	20/1(A)	11	*	12	*	*	*	*	*
SPARE	20/1(A)	13	*	14	20/1	13	*	14	20/1 DISHWASHER
WASHER	20/1	15	*	16	20/1	15	*	16	20/1 DISPOSAL
DRYER	30/2	17	*	18	20/1	17	*	18	20/1 AC PORT
WATER HEATER	30/2	19	*	20	50/2	19	*	20	50/2 HEAT - IHP/OHP
SMART PANEL	20/1	25	*	24	40/2	25	*	24	40/2 PV SOLAR SYSTEM (FUTURE)
BLANK		27	*	28	40/2	27	*	28	40/2 EV CHARGER (FUTURE)
BLANK		29	*	30	*	*	*	*	*
BLANK		31	*	32					BLANK
BLANK		33	*	34					BLANK
BLANK		35	*	36					BLANK
BLANK		37	*	38					BLANK
BLANK		39	*	40					BLANK
BLANK		41	*	42					BLANK

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

MFIA CIRCUIT DIRECTORY									
Loadcenter Name		mounting		location					
LC-4-Bedroom (TYPICAL)		RECESSED		200A MLO (SCCR: 10K)					
service	phase	1	2	L1	L2	no.	no.	a/p	service
LIGHTS-KITCHEN/LIVING	20/1(A)	1	*	2	20/1(A)	1	*	2	20/1(A) APPLIANCE CIRCUIT
LTS & RECEPT- BATH	20/1	3	*	4	20/1(A)	1	*	4	20/1(A) APPLIANCE CIRCUIT
LTS - BEDROOMS	20/1(A)	5	*	6	20/1	1	*	6	20/1 REFRIGERATOR
RECEPTACLES	20/1(A)	7	*	8	20/1(A)	7	*	8	20/1(A) MICRO/HOOD
RECEPTACLES	20/1(A)	9	*	10	50/2	9	*	10	50/2 RANGE
RECEPTACLES	20/1(A)	11	*	12	*	*	*	*	*
RECEPTACLES	20/1(A)	13	*	14	20/1	13	*	14	20/1 DISHWASHER
WASHER	20/1	15	*	16	20/1	15	*	16	20/1 DISPOSAL
DRYER	30/2	17	*	18	20/1	17	*	18	20/1 AC PORT
WATER HEATER	30/2	19	*	20	50/2	19	*	20	50/2 HEAT - IHP/OHP
SMART PANEL	20/1	25	*	24	40/2	25	*	24	40/2 PV SOLAR SYSTEM (FUTURE)
BLANK		27	*	28	40/2	27	*	28	40/2 EV CHARGER (FUTURE)
BLANK		29	*	30	*	*	*	*	*
BLANK		31	*	32					BLANK
BLANK		33	*	34					BLANK
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BLANK		39	*	40					BLANK
BLANK		41	*	42					BLANK

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

MFIA PANEL SCHEDULE										
panel		mounting		location						
HOUSE PANEL 'HP' (TYP)		SURFACE NEMA 3R		BLDG 1 & 15						
service	phase	1	2	L1	L2	no.	no.	a/p	service	
LIGHTS - SITE	1500	20/1	1	*	2	20/1	1	*	2	500 RECEPT - RISER RM
EV CHARGING (FUTURE)	30/2	3	*	4	20/1	3	*	4	500 IRRIGATION	
APT BLDG DISCONNECT	1500	20/1	7	*	8	20/1	7	*	8	500 FIRE ALARM
APT BLDG DISCONNECT	1500	20/1	9	*	10	20/1	9	*	10	500 COMMUNICATIONS
APT BLDG DISCONNECT	1500	20/1	11	*	12	20/1	11	*	12	1500 APT BLDG DISCONNECT
APT BLDG DISCONNECT	1500	20/1	13	*	14	20/1	13	*	14	1500 APT BLDG DISCONNECT
BLANK		15	*	16						BLANK
BLANK		17	*	18						BLANK
BLANK		19	*	20						BLANK
BLANK		21	*	22						BLANK
BLANK		23	*	24						BLANK
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BLANK		27	*	28						BLANK
BLANK		29	*	30						BLANK
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Line 1 8500 VA
 Line 2 5500 VA

NOTES:
 line-line voltage 240
 largest motor (va) 0
 Total Connected 14000 VA
 load code: line 1 line 2 total factor calculated load (va)
 1. LIGHTS= 1500 0 VA 1500 1.25 1875
 2. RECEPT.= 500 0 VA 500 1 + 0.5 500
 3. HEATING= 0 0 VA 0 1.00 0
 4. KITCHEN= 0 0 VA 0 1.00 0
 5. EQUIP.= 6500 5500 VA 12000 1.00 12000
 6. MOTORS= 0 0 VA 0 * 0
 7. SUB-PANEL= 0 0 VA 0 1.00 0
 (* 125% of the largest motor + 100% of the balance) TOTAL = 14375

MFIA CIRCUIT DIRECTORY									
Loadcenter Name		mounting		location					
LC-3-Bedroom (TYPICAL)		RECESSED		200A MLO (SCCR: 10K)					
service	phase	1	2	L1	L2	no.	no.	a/p	service
LIGHTS-KITCHEN/LIVING	20/1(A)	1	*	2	20/1(A)	1	*	2	20/1(A) APPLIANCE CIRCUIT
LTS & RECEPT- BATH	20/1	3	*	4	20/1(A)	1	*	4	20/1(A) APPLIANCE CIRCUIT
LTS - BEDROOMS	20/1(A)	5	*	6	20/1	1	*	6	20/1 REFRIGERATOR
RECEPTACLES	20/1(A)	7	*	8	20/1(A)	7	*	8	20/1(A) MICRO/HOOD
RECEPTACLES	20/1(A)	9	*	10	50/2	9	*	10	50/2 RANGE
RECEPTACLES	20/1(A)	11	*	12	*	*	*	*	*
SPARE	20/1(A)	13	*	14	20/1	13	*	14	20/1 DISHWASHER
WASHER	20/1	15	*	16	20/1	15	*	16	20/1 DISPOSAL
DRYER	30/2	17	*	18	20/1	17	*	18	20/1 AC PORT
WATER HEATER	30/2	19	*	20	50/2	19	*	20	50/2 HEAT - IHP/OHP
SMART PANEL	20/1	25	*	24	40/2	25	*	24	40/2 PV SOLAR SYSTEM (FUTURE)
BLANK		27	*	28	40/2	27	*	28	40/2 EV CHARGER (FUTURE)
BLANK		29	*	30	*	*	*	*	*
BLANK		31	*	32					BLANK
BLANK		33	*	34					BLANK
BLANK		35	*	36					BLANK
BLANK		37	*	38					BLANK
BLANK		39	*	40					BLANK
BLANK		41	*	42					BLANK

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

MFIA CIRCUIT DIRECTORY									
Loadcenter Name		mounting		location					
LC-5-Bedroom (TYPICAL)		RECESSED		200A MLO (SCCR: 10K)					
service	phase	1	2	L1	L2	no.	no.	a/p	service
LIGHTS-KITCHEN/LIVING	20/1(A)	1	*	2	20/1(A)	1	*	2	20/1(A) APPLIANCE CIRCUIT
LTS & RECEPT- BATH	20/1	3	*	4	20/1(A)	1	*	4	20/1(A) APPLIANCE CIRCUIT
LTS - BEDROOMS	20/1(A)	5	*	6	20/1	1	*	6	20/1 REFRIGERATOR
RECEPTACLES	20/1(A)	7	*	8	20/1(A)	7	*	8	20/1(A) MICRO/HOOD
RECEPTACLES	20/1(A)	9	*	10	50/2	9	*	10	50/2 RANGE
RECEPTACLES	20/1(A)	11	*	12	*	*	*	*	*
RECEPTACLES	20/1(A)	13	*	14	20/1	13	*	14	20/1 DISHWASHER
WASHER	20/1	15	*	16	20/1	15	*	16	20/1 DISPOSAL
DRYER	30/2	17	*	18	20/1	17	*	18	20/1 AC PORT
WATER HEATER	30/2	19	*	20	50/2	19	*	20	50/2 HEAT - IHP/OHP
SMART PANEL	20/1	25	*	24	40/2	25	*	24	40/2 PV SOLAR SYSTEM (FUTURE)
BLANK		27	*	28	40/2	27	*	28	40/2 EV CHARGER (FUTURE)
BLANK		29	*	30	*	*	*	*	*
BLANK		31	*	32					BLANK
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BLANK		41	*	42					BLANK

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

MECHANICAL EQUIPMENT SCHEDULE									
NO.	EQUIPMENT NAME	HP/KW	VOLTS	PH	AMPS	CONDUIT	WIRE	GND	CIRCUIT
EF-1	EXHAUST FAN NO.1	11.0W	120	1		1/2"	#12	#12	SEE UNIT PLANS
EH-1	WALL HEATER NO.1	1.6KW	240	1		1/2"	#12	#12	SEE UNIT PLANS
IHP-1	MINI SPLIT SYST NO.1 (INDOOR)								
OHP-1	MINI SPLIT SYST NO.1 (OUTDOOR)		208	1	42.0 MCA	3/4"	#6	#10	SEE UNIT PLANS
WH-1	WATER HEATER NO.1	4.5KW	208	1		1/2"	#12	#12	SEE UNIT PLANS

GENERAL EQUIPMENT NOTES:

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



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REVISIONS

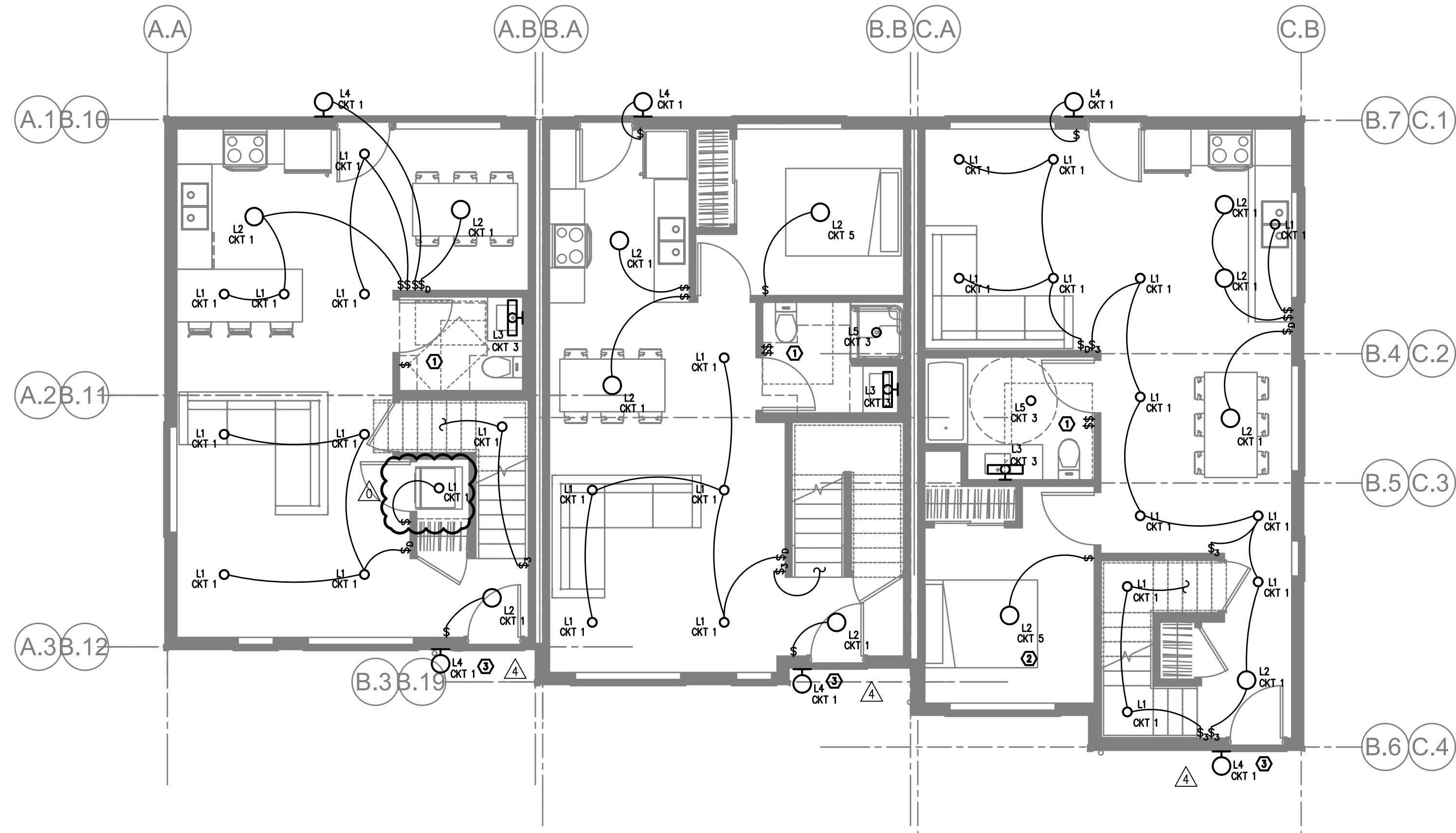
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10/09/2020	REVIEW COMMENTS
11/25/2020	REVIEW COMMENTS
12/07/2020	ELECTRICAL REVISIONS
04/07/2021	REVIEW COMMENTS

PERMIT DOCUMENTS
 ISSUE DATE 07/01/2020
**ELECTRICAL
 PANEL
 SCHEDULES**

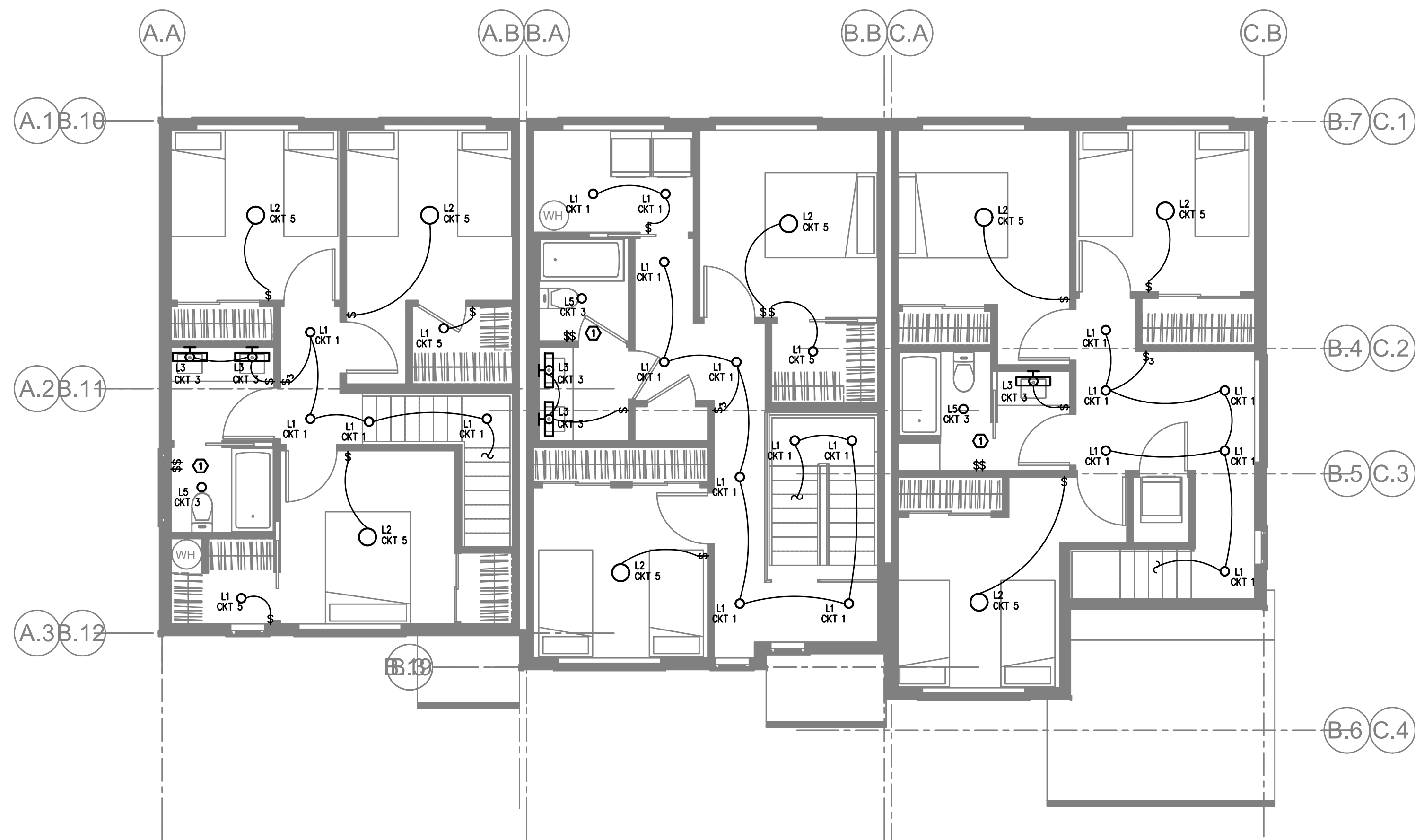
E0-1.14

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1
BUILDING 1
GROUND FLOOR – LIGHTING PLAN
 SCALE: 3/16" = 1'-0"



2
BUILDING 1
SECOND FLOOR – LIGHTING PLAN
 SCALE: 3/16" = 1'-0"

GENERAL NOTES:

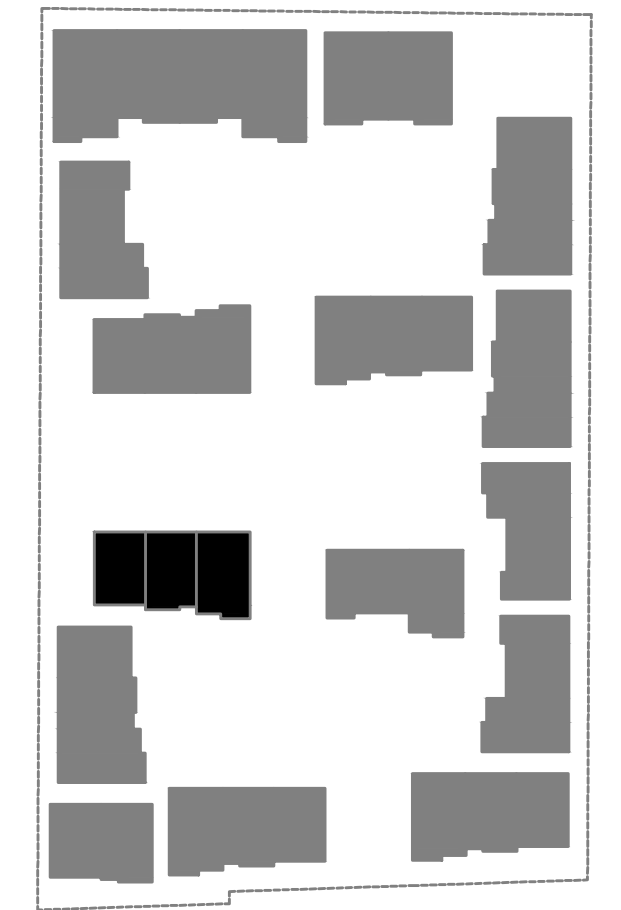
- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- C. REFER TO SHEET E1.3 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
- D. ALL LIGHT SWITCHES SHALL BE ROCKER STYLE, SUCH AS LEVITON DECORA, OR APPROVED EQUAL.
- E. REFER TO E3 SERIES SHEETS FOR TYPICAL UNIT POWER PLANS.
- F. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE MECHANICAL PLAN SHEETS AND COORDINATE WITH THE MECHANICAL INSTALLER TO AVOID CONFLICTS BETWEEN HVAC EQUIPMENT AND LIGHT FIXTURES WITHIN THE APARTMENT UNITS.



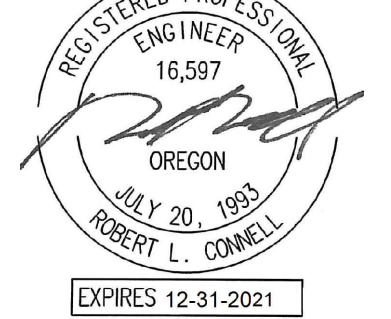
KEYED NOTES:

- 1. REFER TO E1.21 FOR TYPICAL BATHROOM SWITCHING DIAGRAM.
- 2. NOT USED.
- 3. TOWNHOUSE UNIT ENTRY LIGHTS SHALL BE PROVIDED WITH ROOF MOUNTED PHOTOCELLS FOR DUSK-TILL-DAWN OPERATION. CIRCUIT LIGHT AS INDICATED ON THE PLANS. FIELD ADJUST PHOTOCELL.

KEY PLAN



07.06.2020



REVISIONS

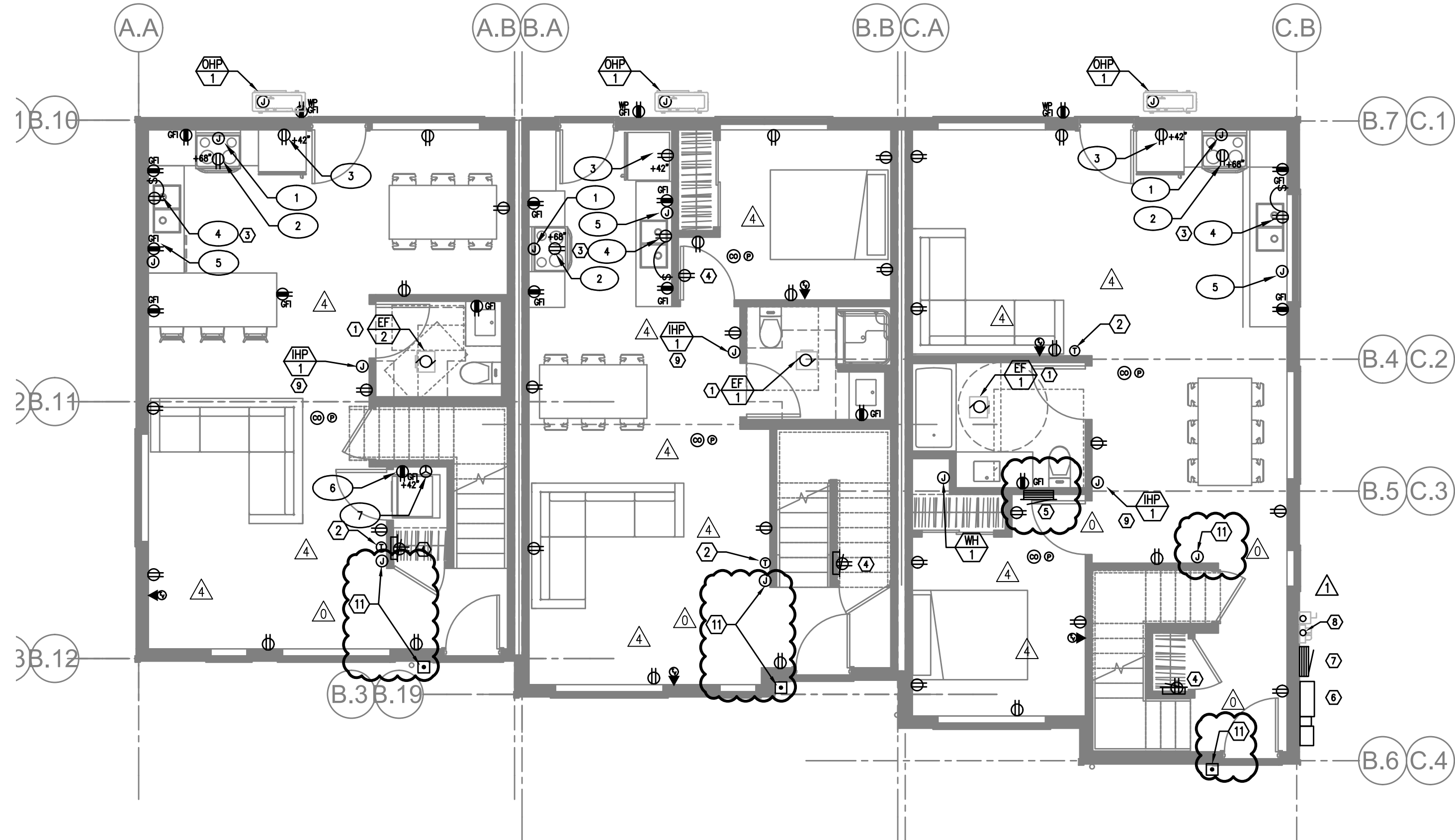
△	09/18/2020	REVIEW COMMENTS
△	10/09/2020	REVIEW COMMENTS
△	11/25/2020	REVIEW COMMENTS
△	12/07/2020	ELECTRICAL REVISIONS
△	04/07/2021	REVIEW COMMENTS

PERMIT DOCUMENTS

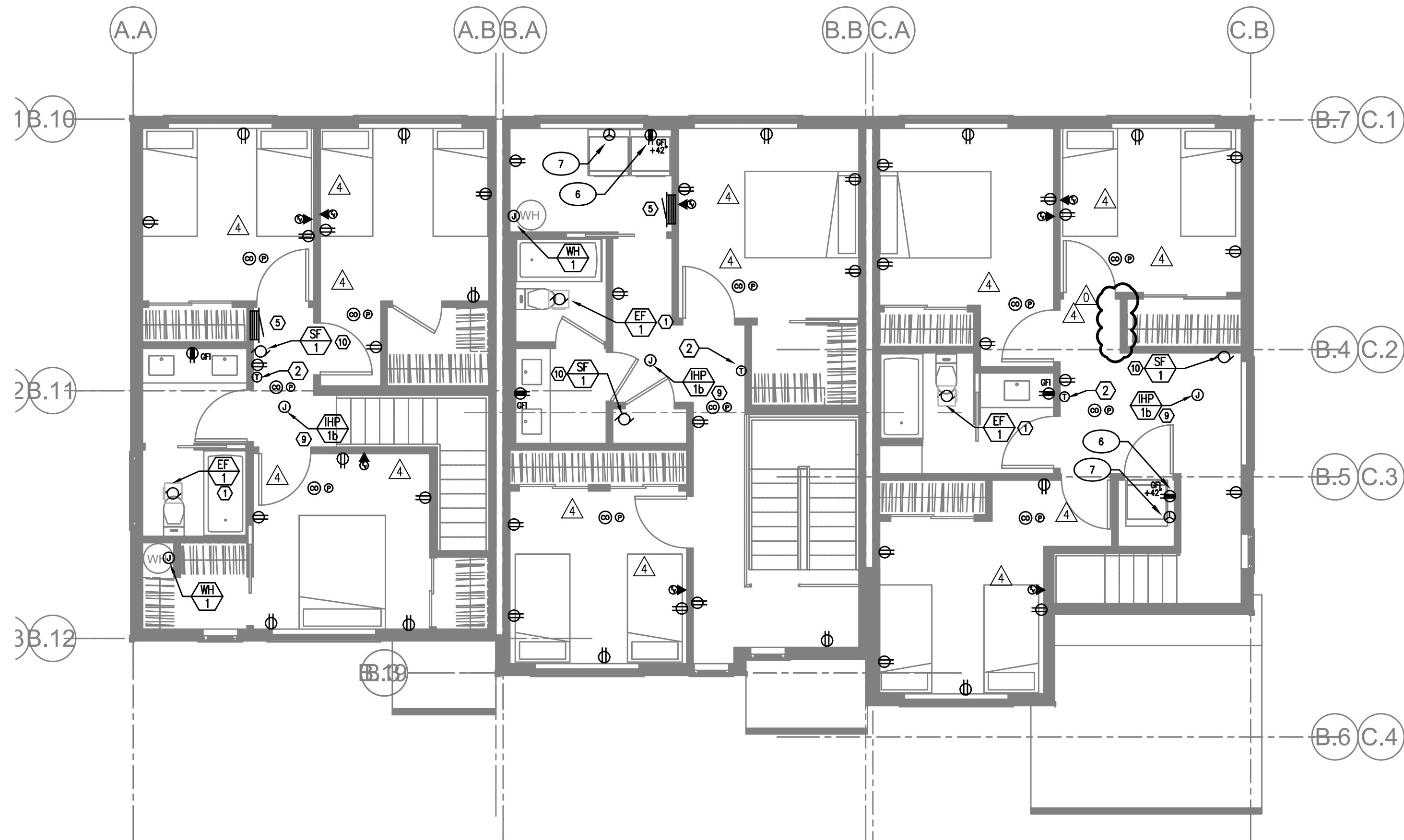
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BUILDING 1
1 GROUND FLOOR – POWER PLAN
 E3.01 SCALE: 3/16" = 1'-0"



BUILDING 1
2 SECOND FLOOR – POWER PLAN
 E3.01 SCALE: 3/16" = 1'-0"

GENERAL POWER NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES.
- C. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR, AS REQUIRED. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- D. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS AS REQUIRED. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.
- E. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- F. COORDINATE WITH DIVISION 23 FOR EXACT LOCATION AND POWER REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH IN. REFER TO SHEET E1.4 FOR MECHANICAL EQUIPMENT SCHEDULE.
- G. SERVICE ENTRANCE AND METERING EQUIPMENT SHOWN TO APPROXIMATE SCALE, BASED ON SIEMENS PRODUCTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ENDURING THAT INSTALLED EQUIPMENT FITS THE SPACE PROVIDED AND THAT ALL REQUIRED WORKING CLEARANCES ARE PROVIDED.
- H. FIRE ALARM & DETECTION SYSTEMS ARE TO BE DESIGNED AND INSTALLED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM SYSTEM DESIGNER FOR EXACT LOCATIONS AND PROVIDE ROUGH IN ONLY.
- I. ANY LOW VOLTAGE TELECOM DEVICES SHOWN ARE STRICTLY DIAGRAMMATIC AND SHOWN FOR REFERENCE ONLY. LOW VOLTAGE SYSTEMS ARE TO BE DESIGNED AND INSTALLED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE SERVICE PROVIDER FOR EXACT LOCATIONS AND PROVIDE ROUGH IN ONLY.

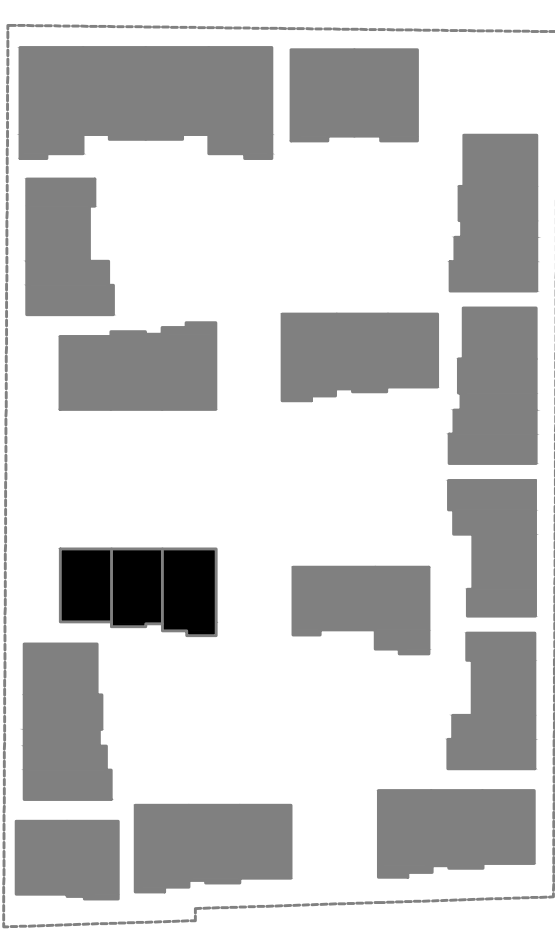
KEYED NOTES:

- 1. BATHROOM EXHAUST FAN CONTROLLED VIA LIGHT SWITCHES. REFER TO TYPICAL UNIT LIGHTING PLANS ON E2 SERIES SHEETS.
- 2. PROVIDE POWER CONNECTION FOR THERMOSTAT. COORDINATE INSTALLATION WITH MECHANICAL EQUIPMENT INSTALLER.
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- 7. NEMA 3R HOUSE BRANCH PANEL. PANELS LOCATED AT BUILDINGS #1 & #15 ONLY. REFER TO ONE LINE DIAGRAM ON SHEET E1.11. PROVIDE ONE NEMA 3R 30A, 120V, 1P DISCONNECT SWITCH AT ALL OTHER BUILDINGS FOR BUILDING LIGHTS AND POWER. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
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APPLIANCE SCHEDULE

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- 2. HOOD/MICROWAVE: CKT LC-8
- 3. REFRIGERATOR: CKT LC-6
- 4. DISPOSAL: CKT LC-14
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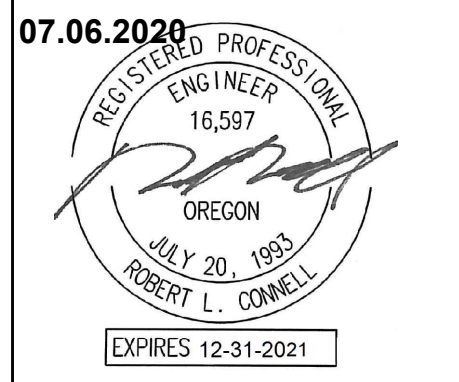
KEY PLAN



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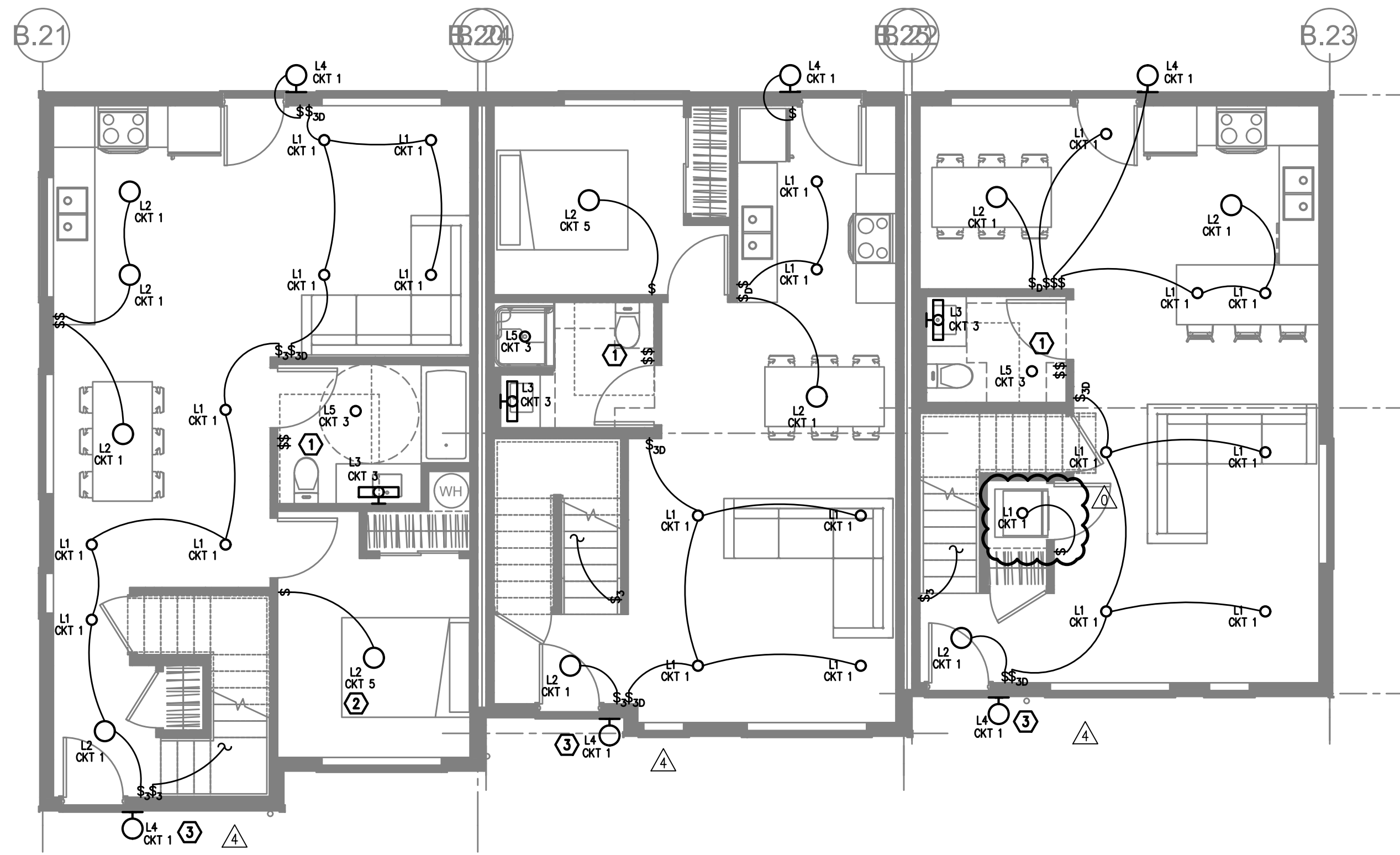
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REVISIONS

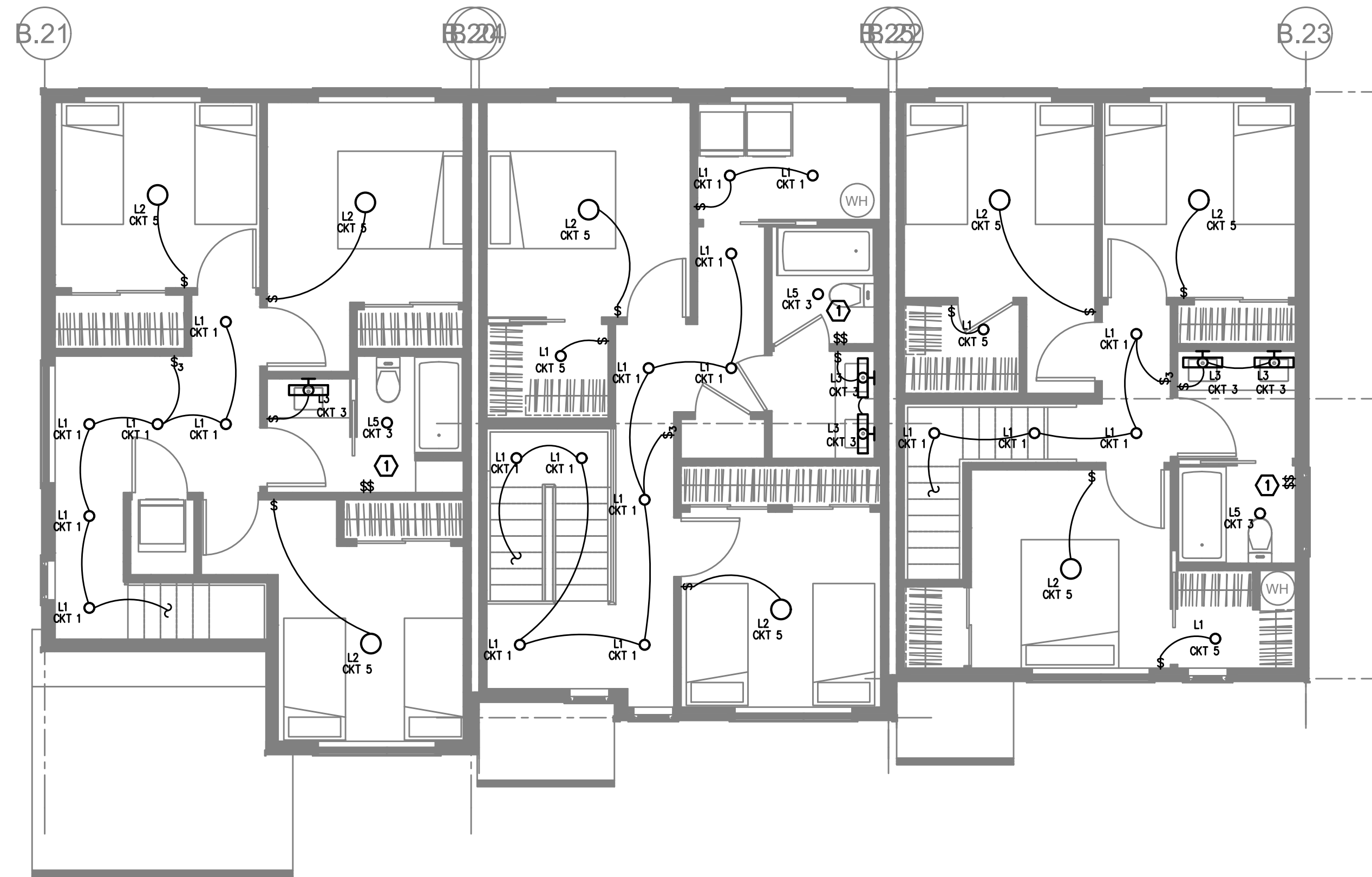
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△	12/07/2020	ELECTRICAL REVISIONS
△	04/07/2021	REVIEW COMMENTS

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 ISSUE DATE 07/01/2020

**BUILDING 1
 POWER PLANS
 E1-3.01**



1 BUILDING 2
 GROUND FLOOR – LIGHTING PLAN
 SCALE: 3/16" = 1'-0"



2 BUILDING 2
 SECOND FLOOR – LIGHTING PLAN
 SCALE: 3/16" = 1'-0"

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- C. REFER TO SHEET E1.3 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
- D. ALL LIGHT SWITCHES SHALL BE ROCKER STYLE, SUCH AS LEVITON DECORA, OR APPROVED EQUAL.
- E. REFER TO E3 SERIES SHEETS FOR TYPICAL UNIT POWER PLANS.
- F. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE MECHANICAL PLAN SHEETS AND COORDINATE WITH THE MECHANICAL INSTALLER TO AVOID CONFLICTS BETWEEN HVAC EQUIPMENT AND LIGHT FIXTURES WITHIN THE APARTMENT UNITS.



KEYED NOTES:

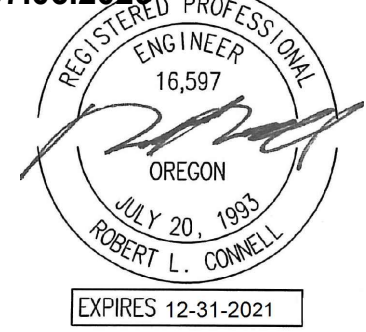
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KEY PLAN



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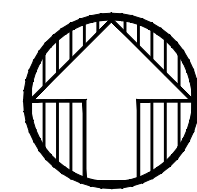
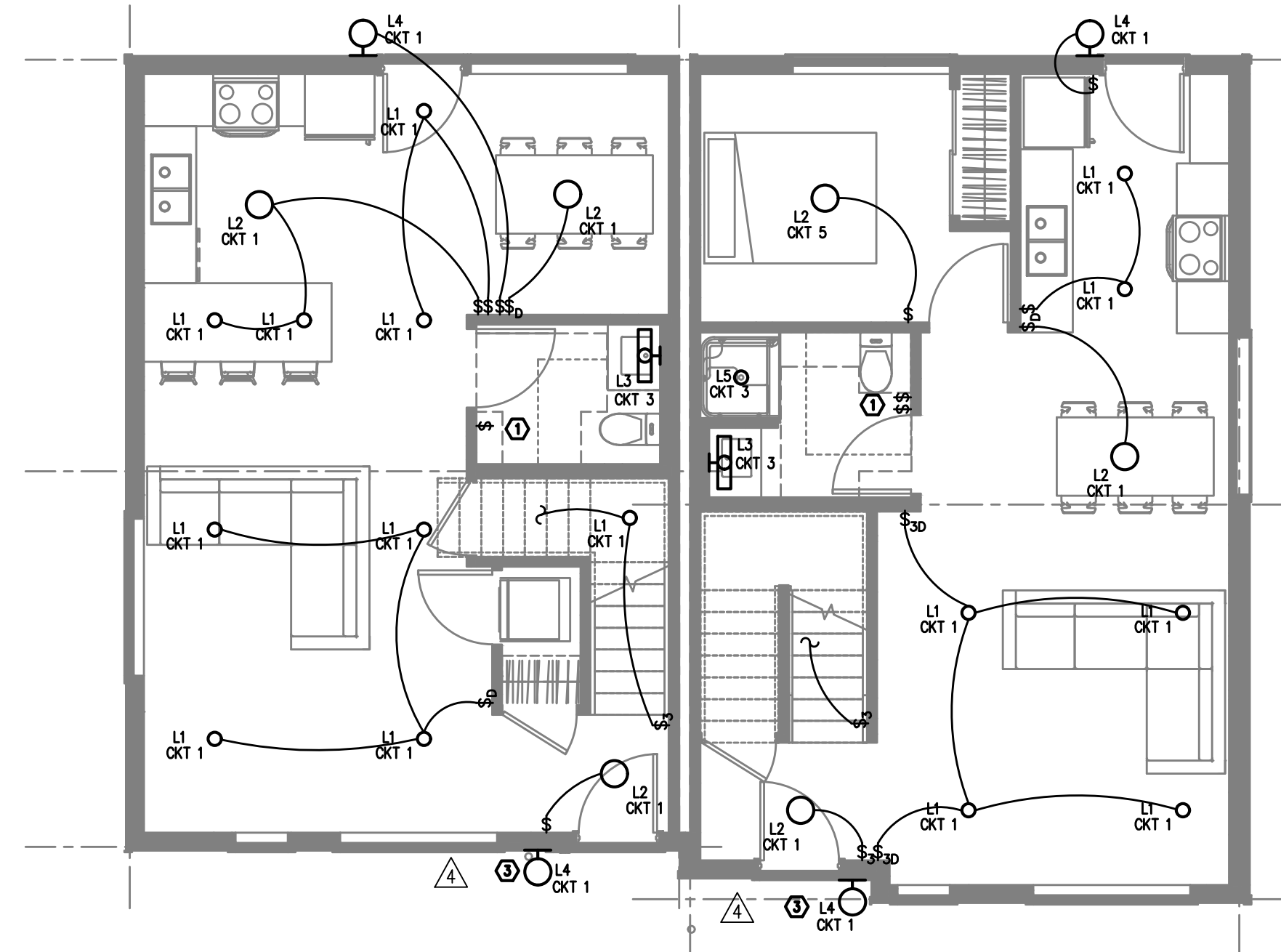
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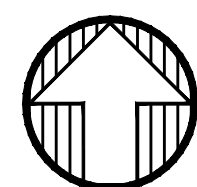
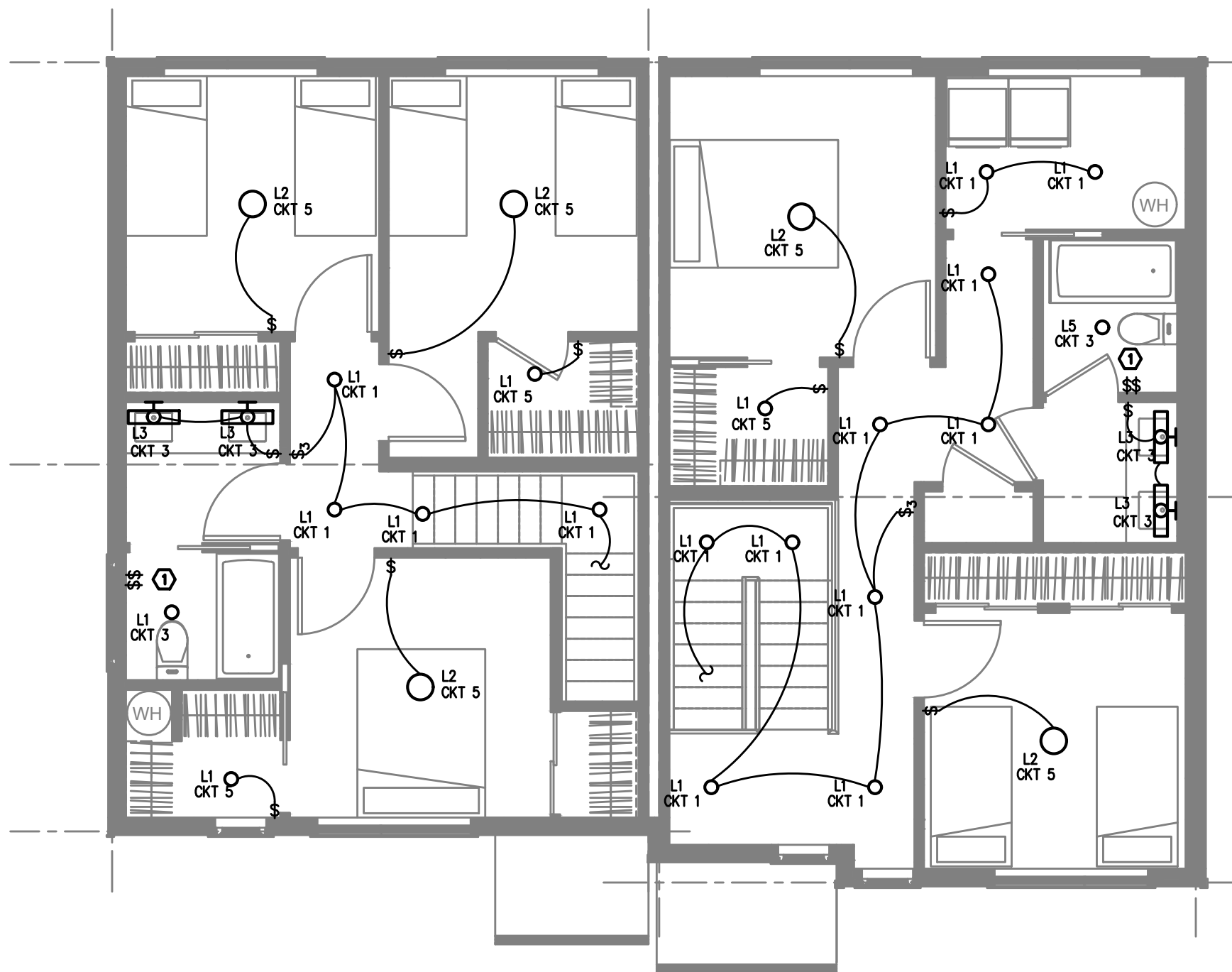
BUILDING 2
LIGHTING PLANS
E2-2.01

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BUILDING #3
1 GROUND FLOOR – LIGHTING PLAN
 SCALE: 3/16" = 1'-0"



BUILDING 3
2 SECOND FLOOR – LIGHTING PLAN
 SCALE: 3/16" = 1'-0"

GENERAL NOTES:

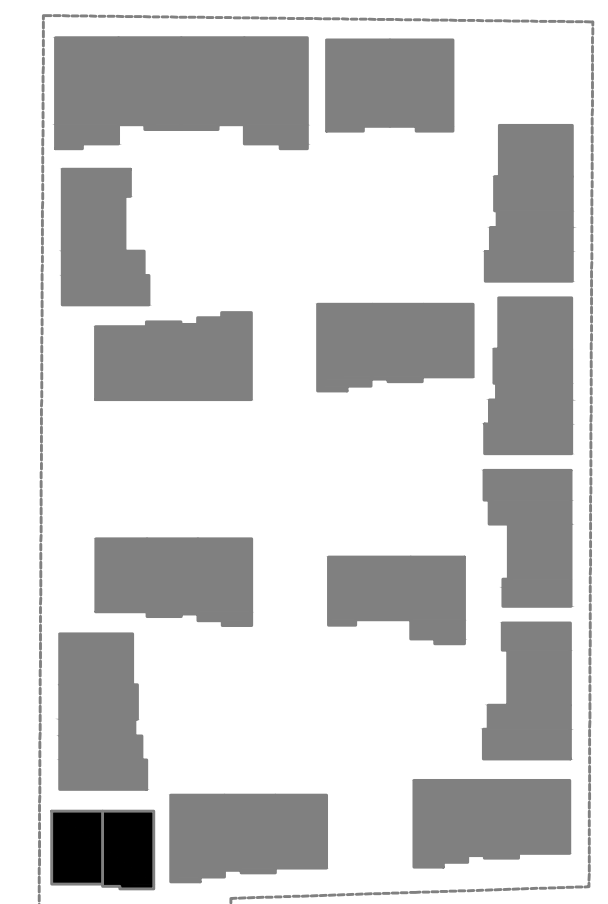
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KEY PLAN



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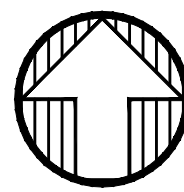
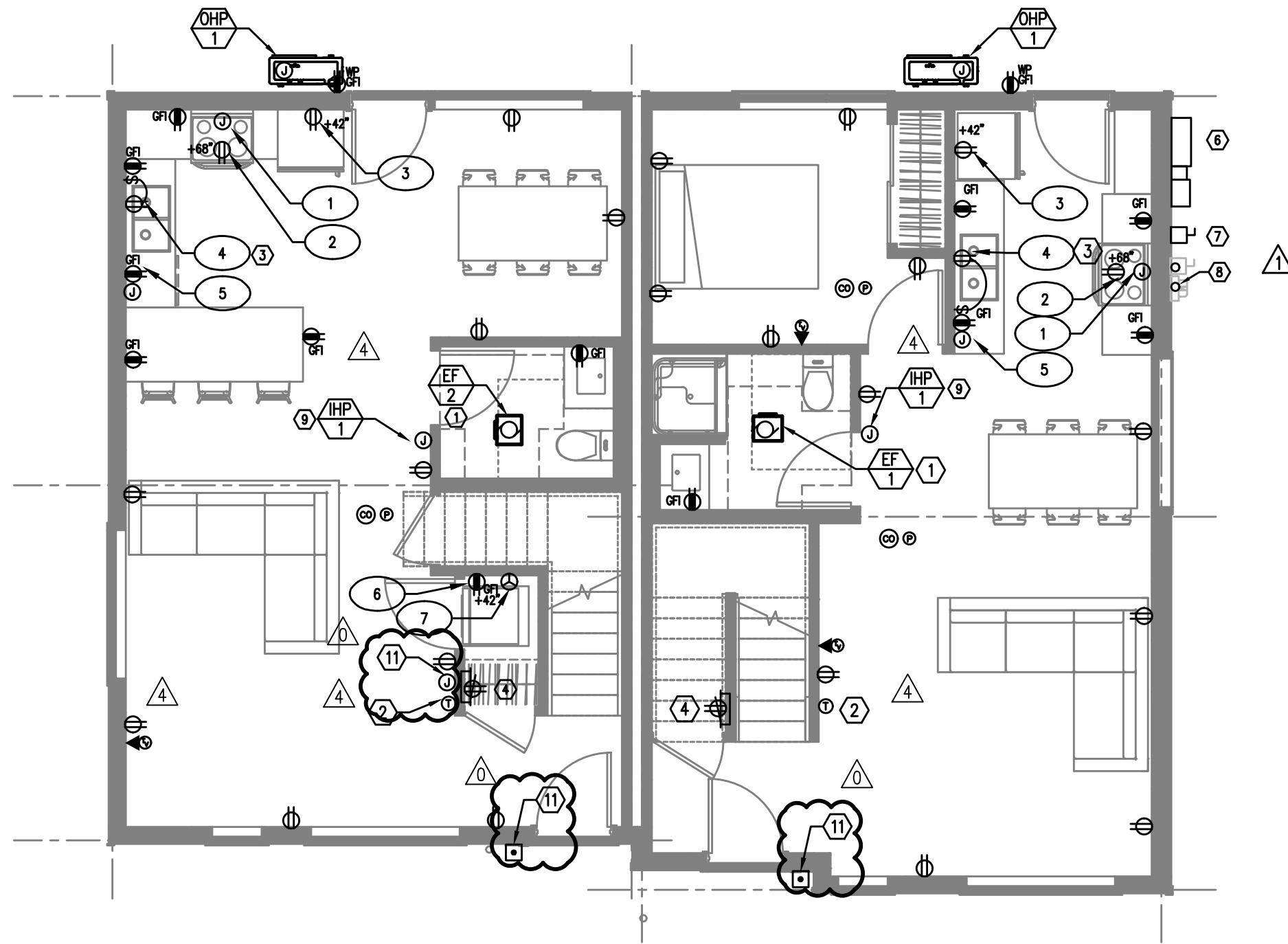
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**BUILDING 3
 LIGHTING PLANS**

E3-2.01

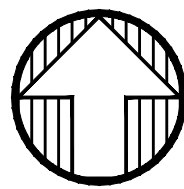
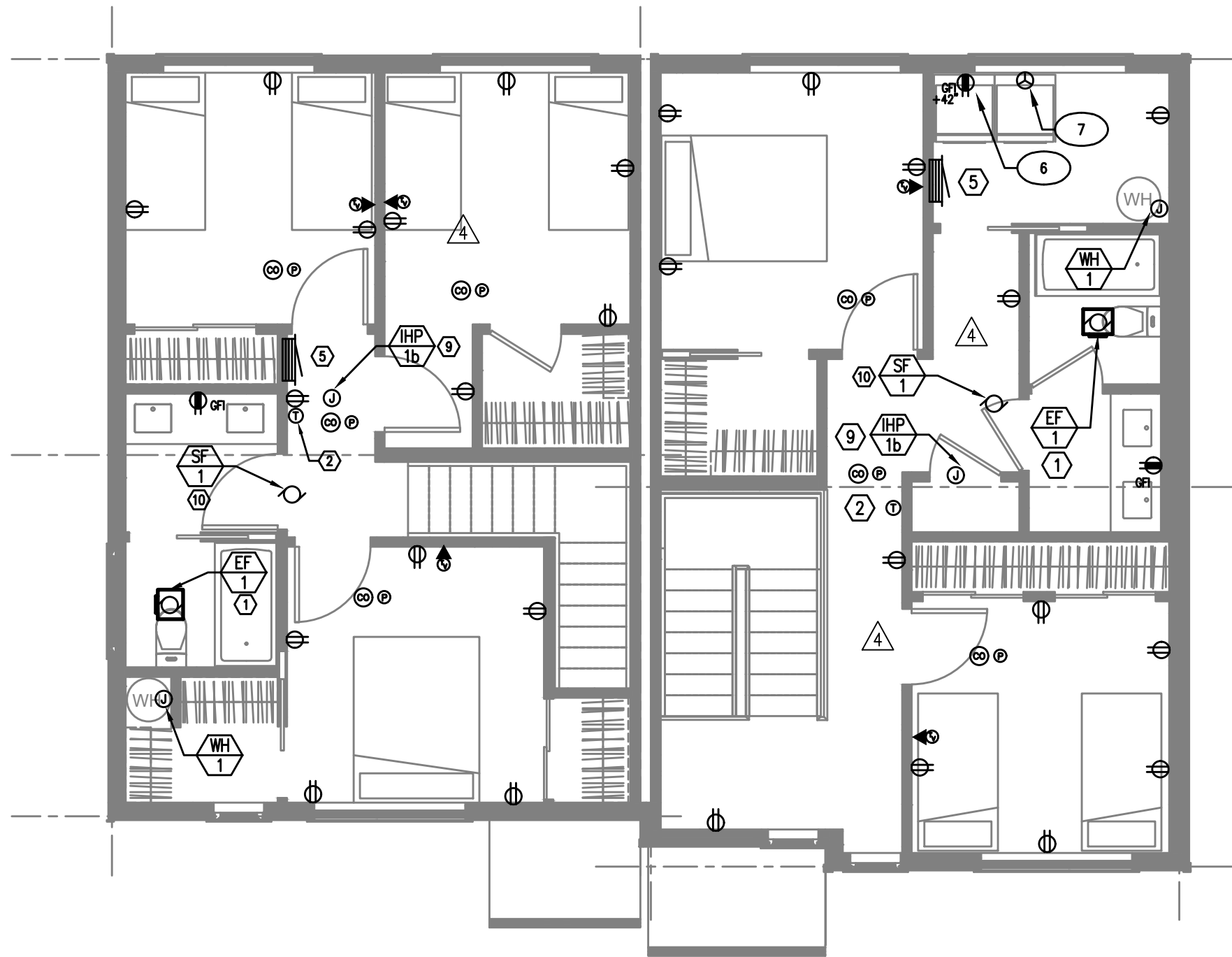
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1
E3.01

BUILDING 3
GROUND FLOOR – POWER PLAN
SCALE: 3/16" = 1'-0"



2
E3.01

BUILDING 3
SECOND FLOOR – POWER PLAN
SCALE: 3/16" = 1'-0"

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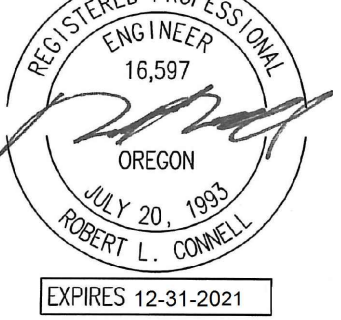
APPLIANCE SCHEDULE

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4. DISPOSAL: CKT LC-14
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KEY PLAN



07.06.2020



REVISIONS

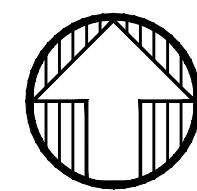
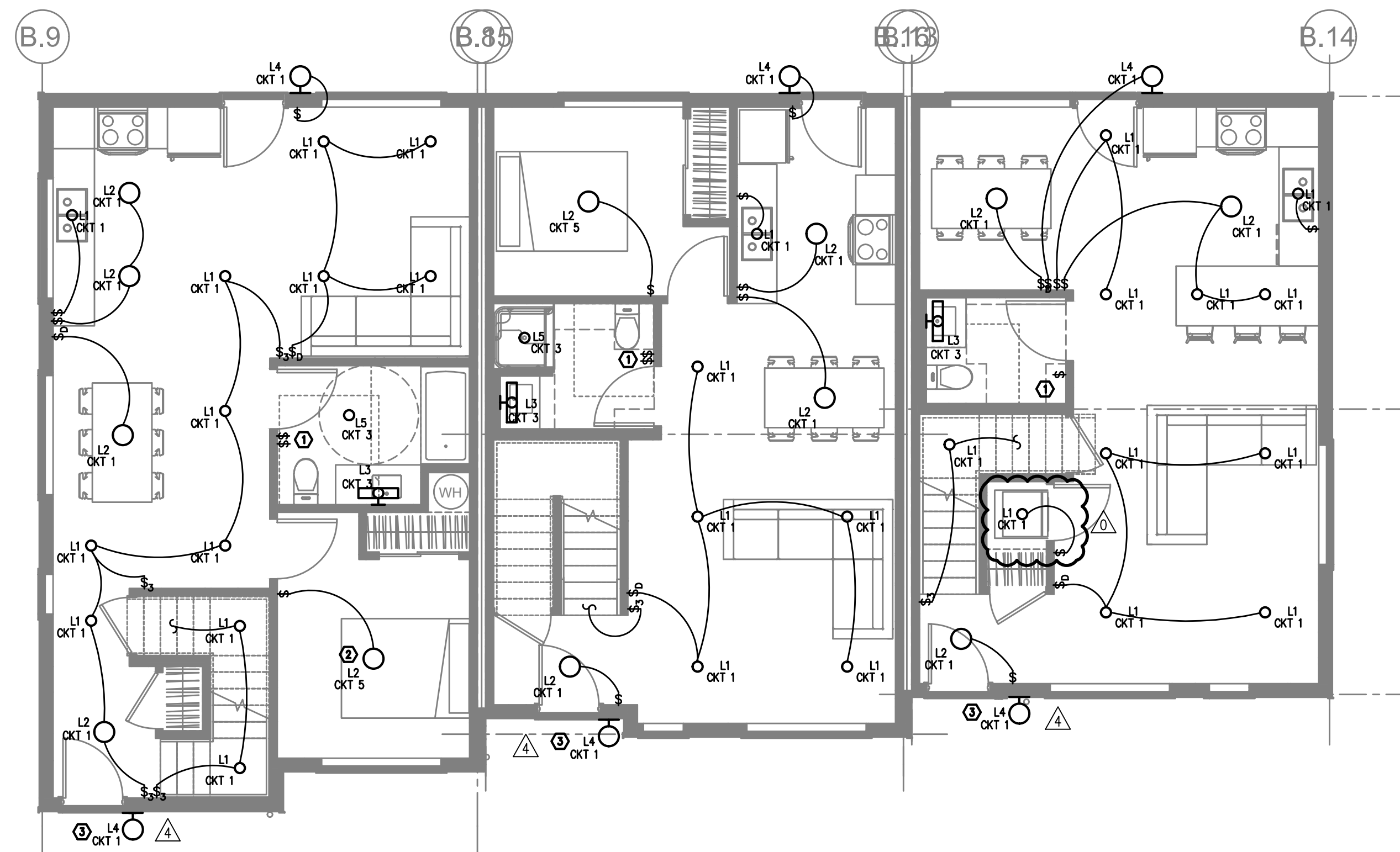
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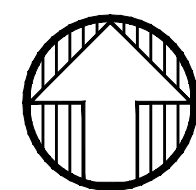
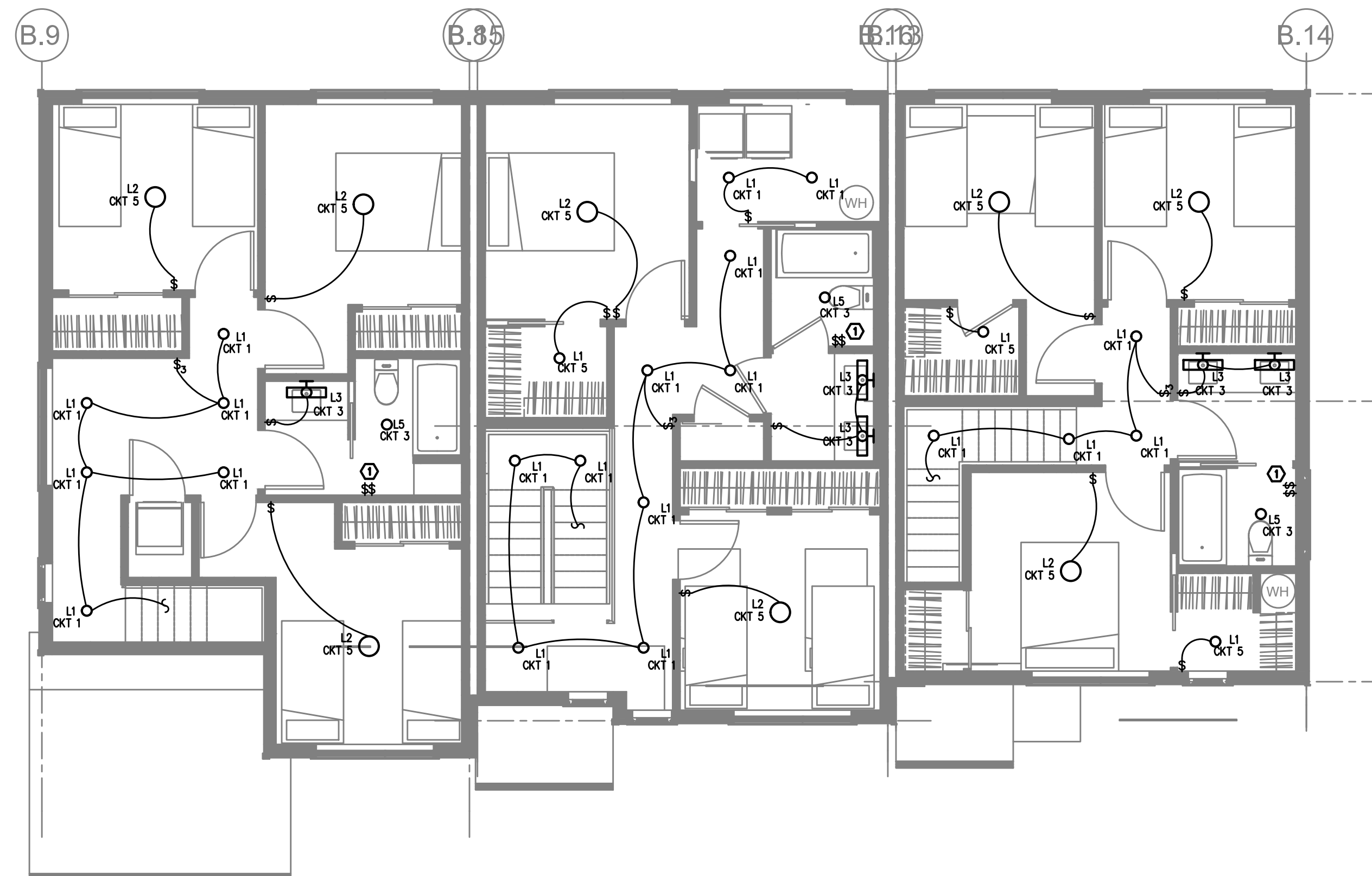
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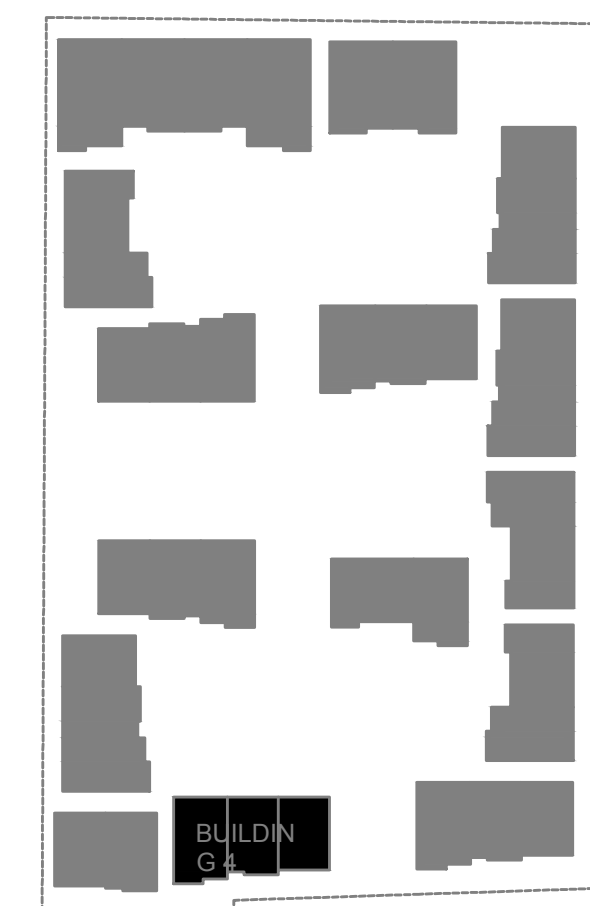


BUILDING 4
1 GROUND FLOOR – LIGHTING PLAN
E2.01 SCALE: 3/16" = 1'-0"



BUILDING 4
2 SECOND FLOOR – LIGHTING PLAN
E2.01 SCALE: 3/16" = 1'-0"

KEY PLAN



GENERAL NOTES:

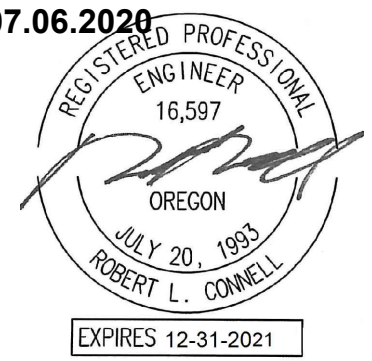
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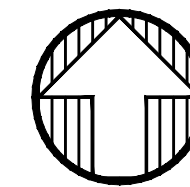
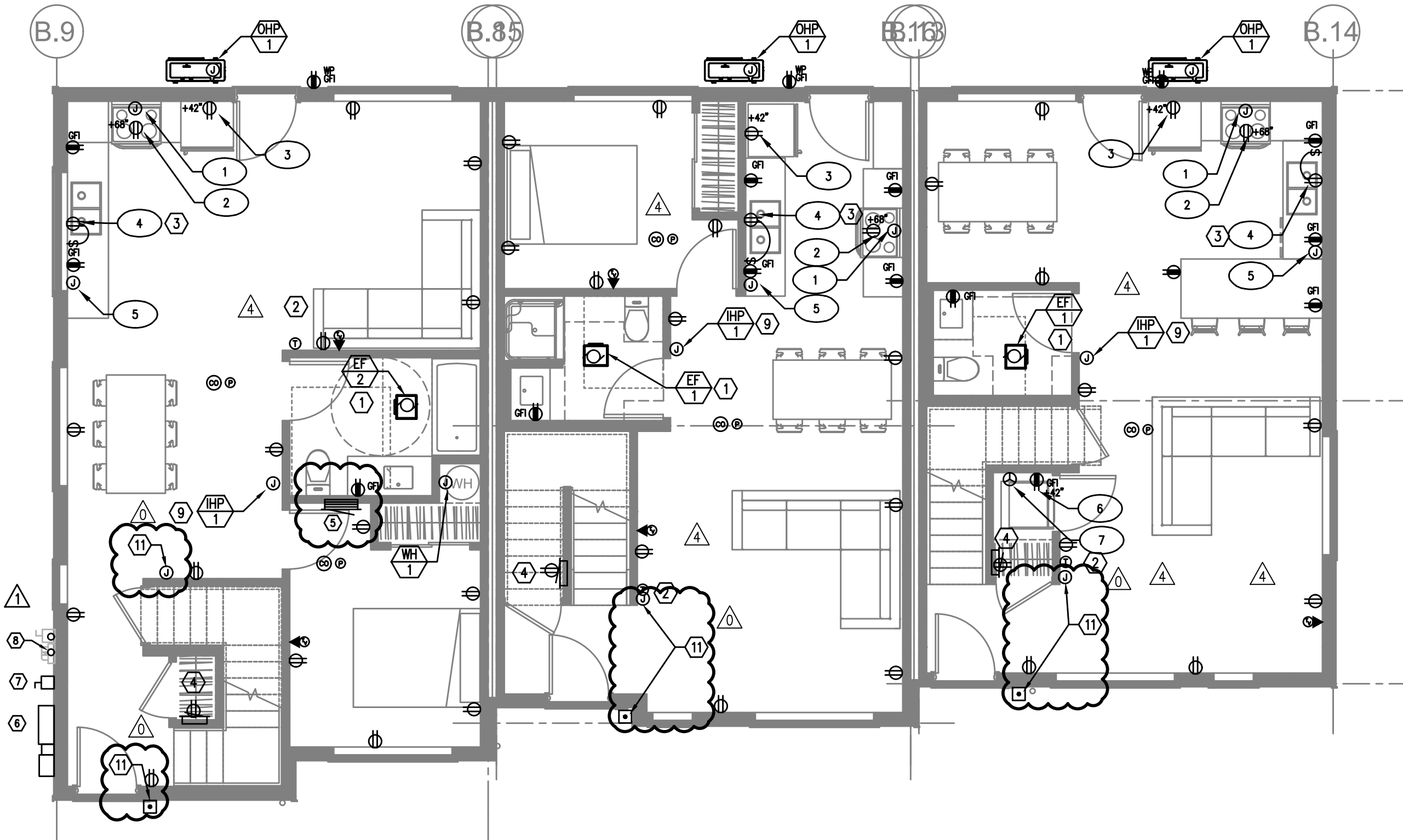
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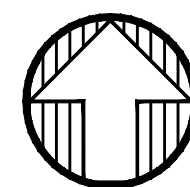
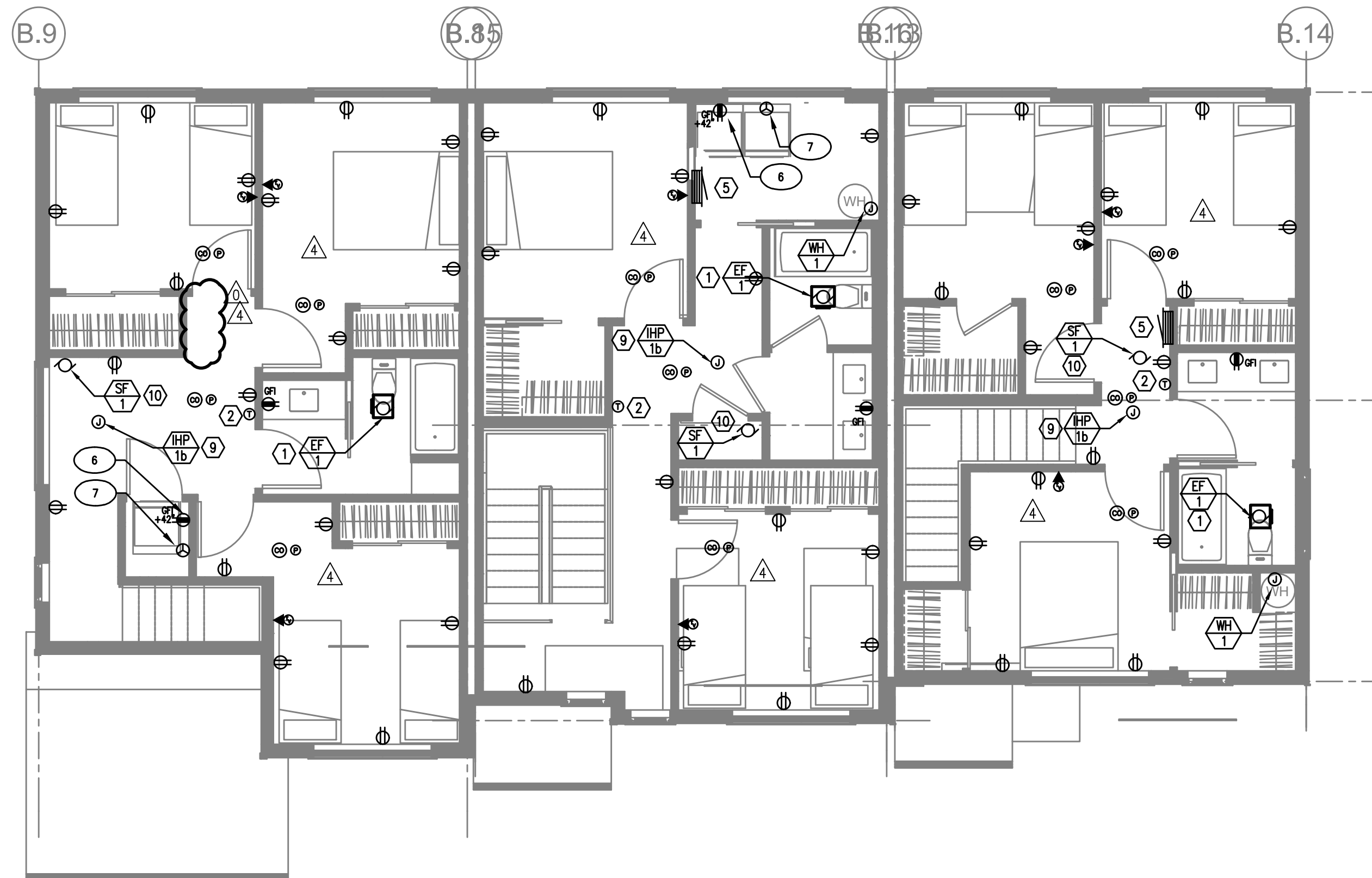
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BUILDING 4
1 GROUND FLOOR – POWER PLAN
 E3.01 SCALE: 3/16" = 1'-0"



BUILDING 4
2 SECOND FLOOR – POWER PLAN
 E2.01 SCALE: 3/16" = 1'-0"

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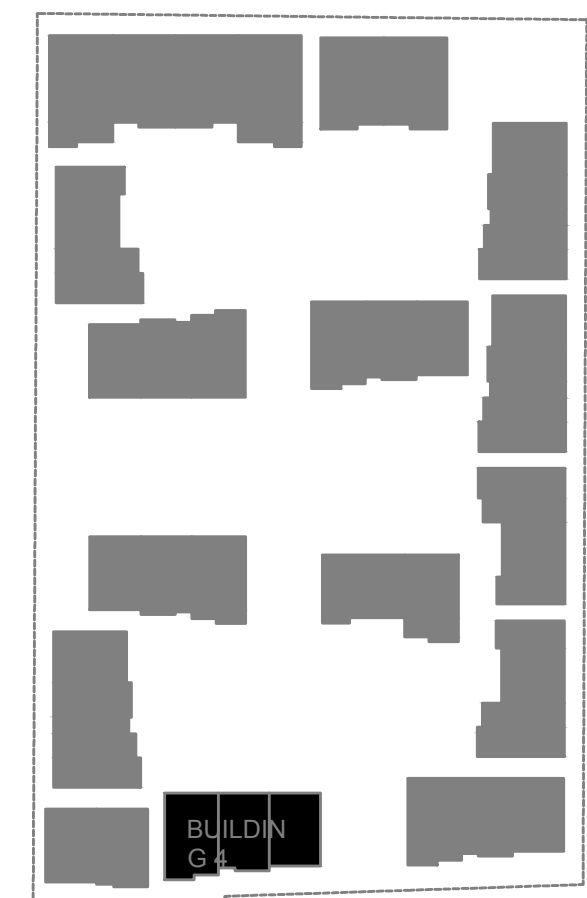
KEYED NOTES:

1. BATHROOM EXHAUST FAN CONTROLLED VIA LIGHT SWITCHES. REFER TO TYPICAL UNIT LIGHTING PLANS ON E2 SERIES SHEETS.
2. PROVIDE POWER CONNECTION FOR THERMOSTAT. COORDINATE INSTALLATION WITH MECHANICAL EQUIPMENT INSTALLER.
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2. HOOD/MICROWAVE: CKT LC-8
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4. DISHWASHER: CKT LC-14
5. DISH WASHER: CKT LC-16
6. LAUNDRY/WASHER: CKT LC-15
7. DRYER: CKT LC-17,19

KEY PLAN



PRELIMINARY
 NOT FOR
 CONSTRUCTION

07.06.2020



FOSTER TOWNHOMES
 13415 SE FOSTER ROAD / PORTLAND / OR
 HABITAT FOR HUMANITY

REVISIONS

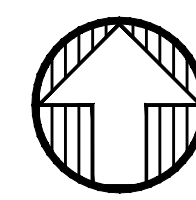
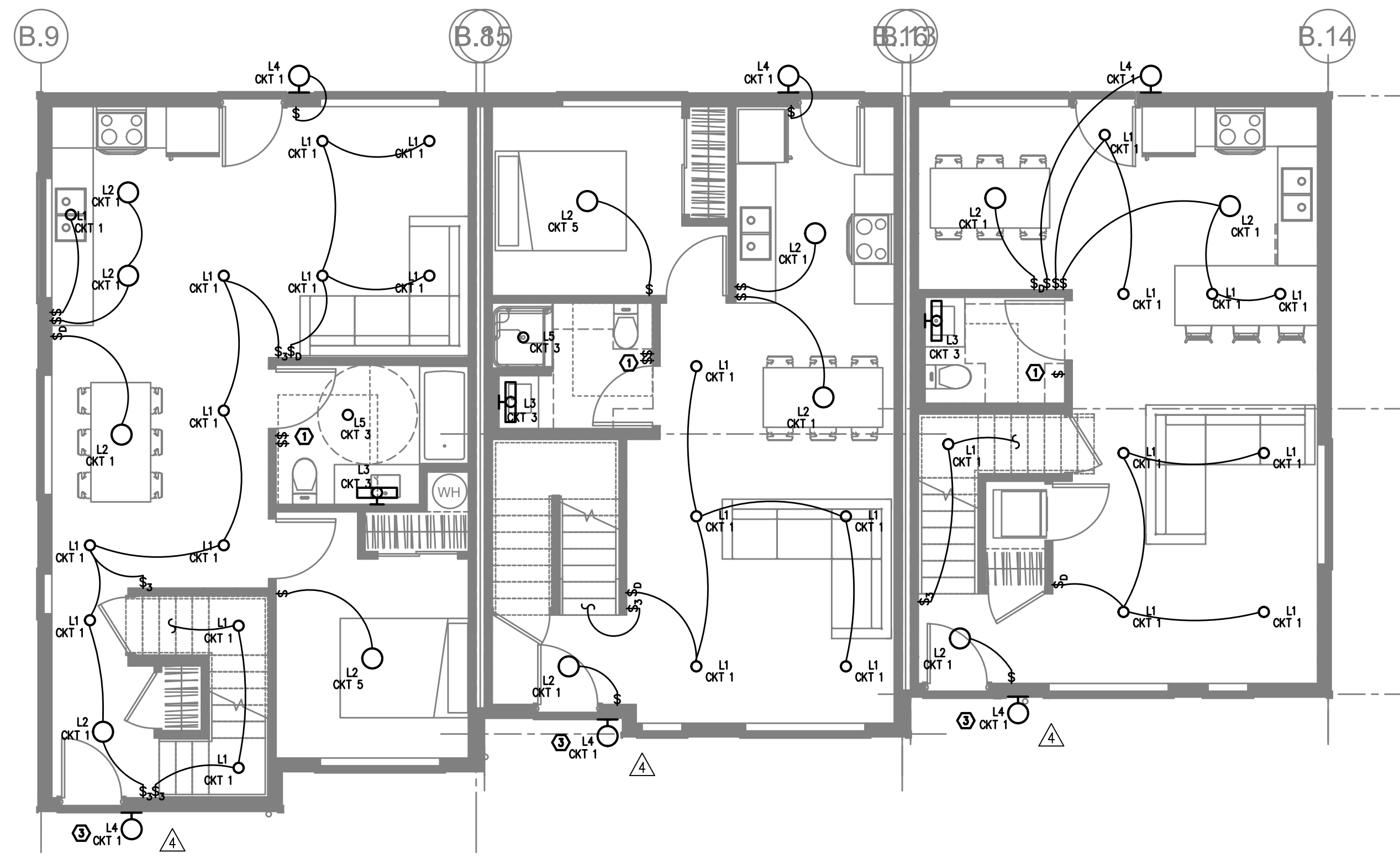
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△	04/07/2021	REVIEW COMMENTS

PERMIT DOCUMENTS
 ISSUE DATE 07/01/2020

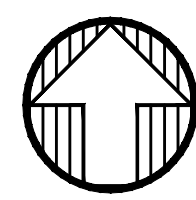
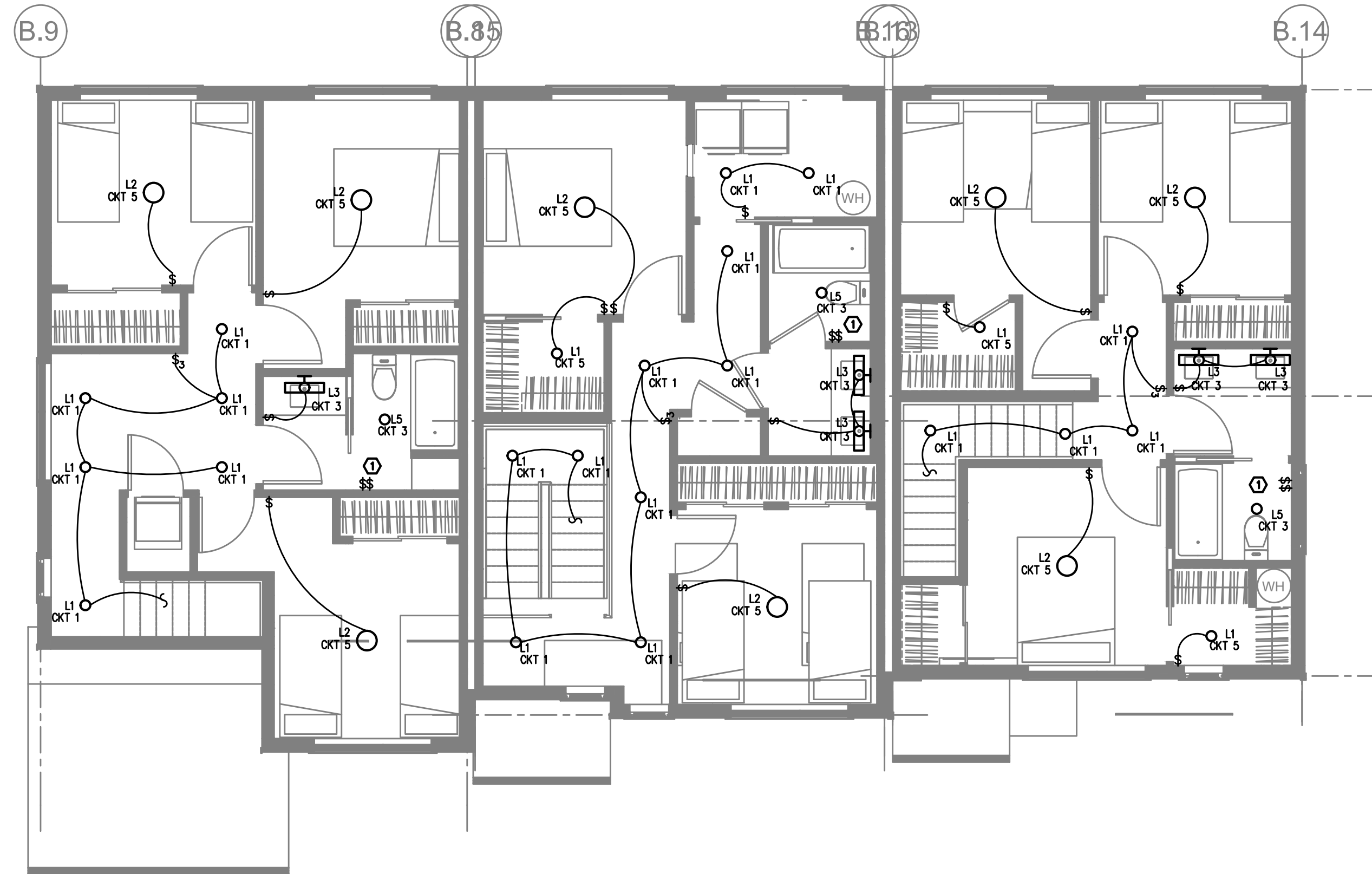
**BUILDING 4
 POWER PLANS
 E4-3.01**

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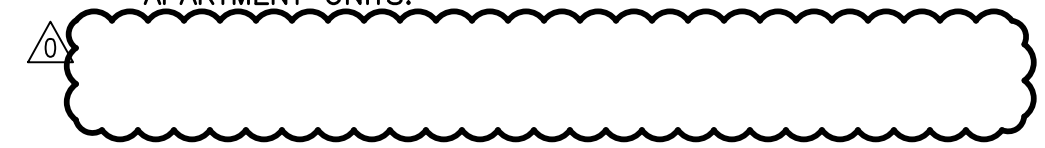
BUILDING 5
1 GROUND FLOOR – LIGHTING PLAN
 E2.01 SCALE: 3/16" = 1'-0"



BUILDING 5
2 SECOND FLOOR – LIGHTING PLAN
 E2.01 SCALE: 3/16" = 1'-0"

GENERAL NOTES:

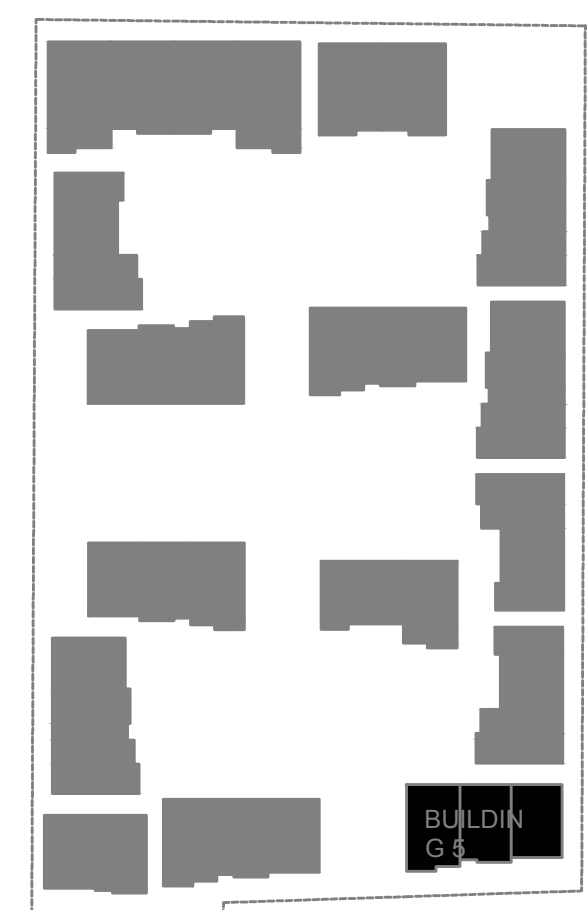
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KEY PLAN



REVISIONS

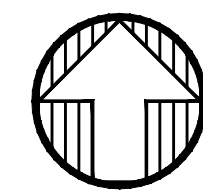
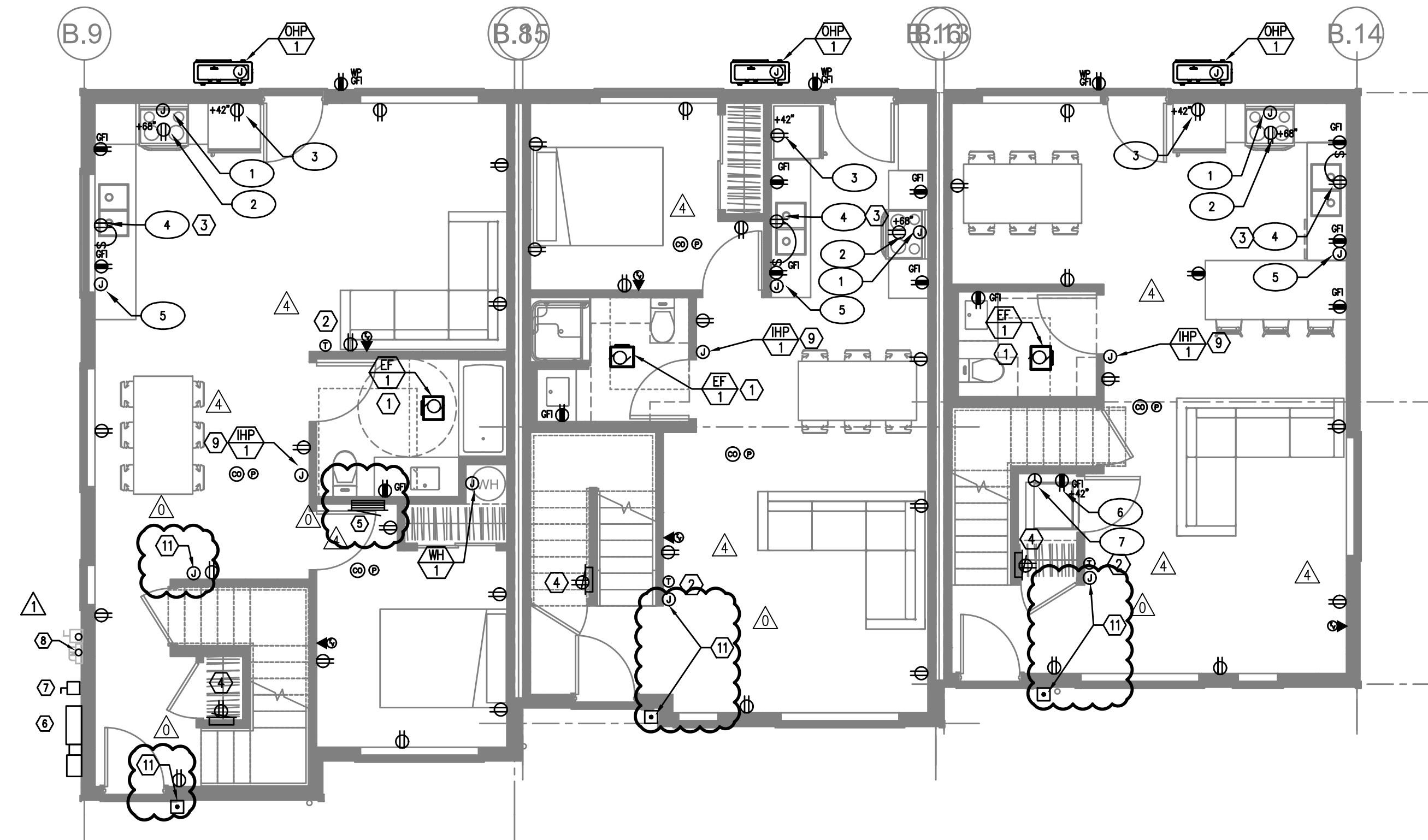
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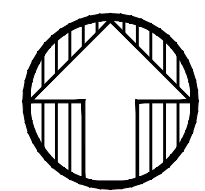
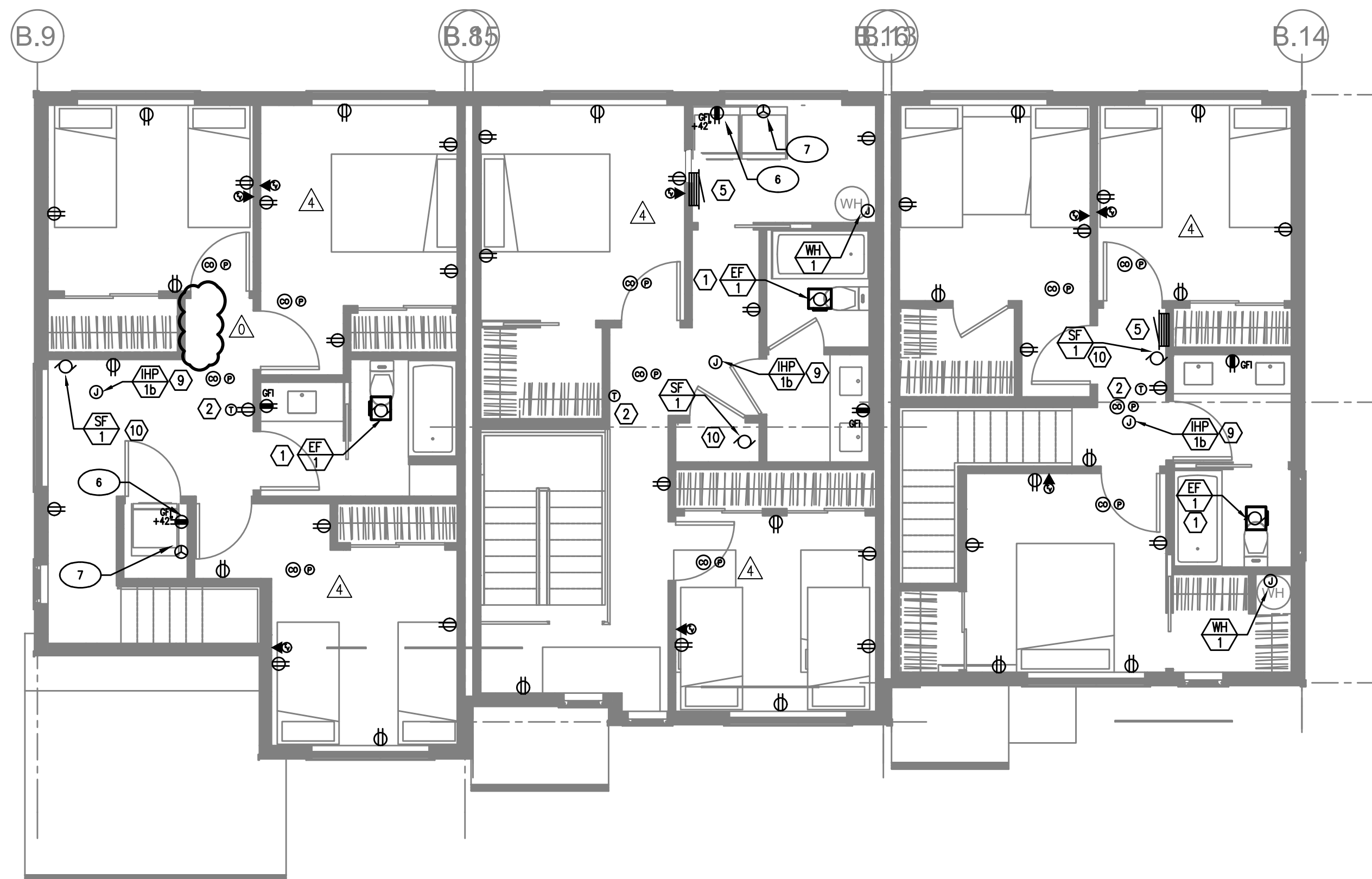
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BUILDING 5
1 GROUND FLOOR – POWER PLAN
E3.01 SCALE: 3/16" = 1'-0"



BUILDING 5
2 SECOND FLOOR – POWER PLAN
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KEY PLAN



07.06.2020



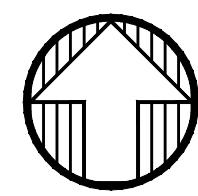
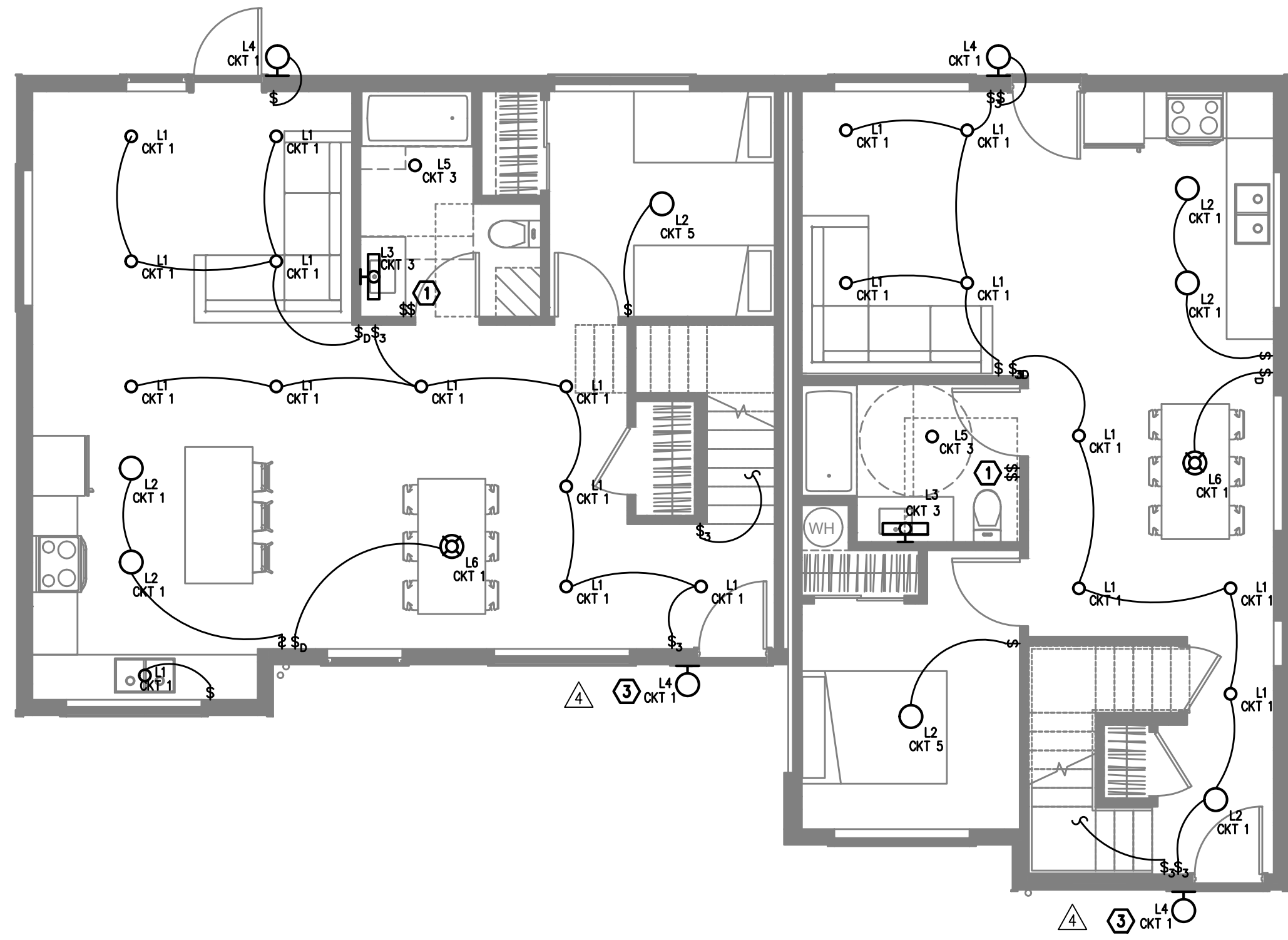
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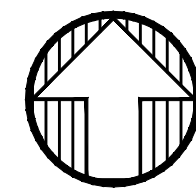
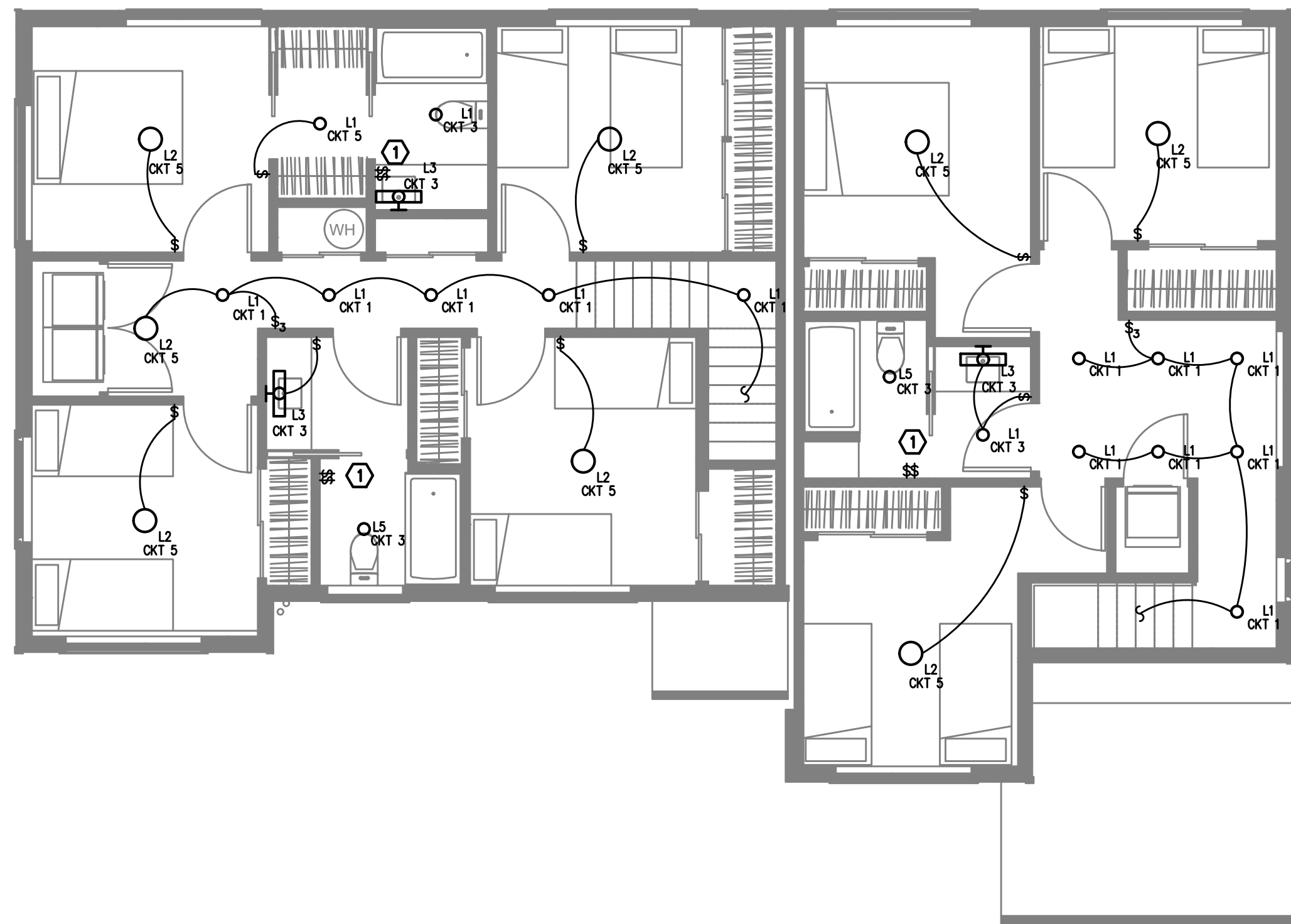
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BUILDING 6
1 GROUND FLOOR – LIGHTING PLAN
 E2.01 SCALE: 3/16" = 1'-0"



BUILDING 6
2 SECOND FLOOR – LIGHTING PLAN
 E2.01 SCALE: 3/16" = 1'-0"

GENERAL NOTES:

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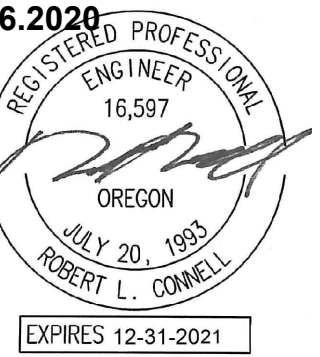
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KEY PLAN



07.06.2020



REVISIONS

- △ 09/18/2020 REVIEW COMMENTS
- △ 10/09/2020 REVIEW COMMENTS
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- △ 04/07/2021 REVIEW COMMENTS

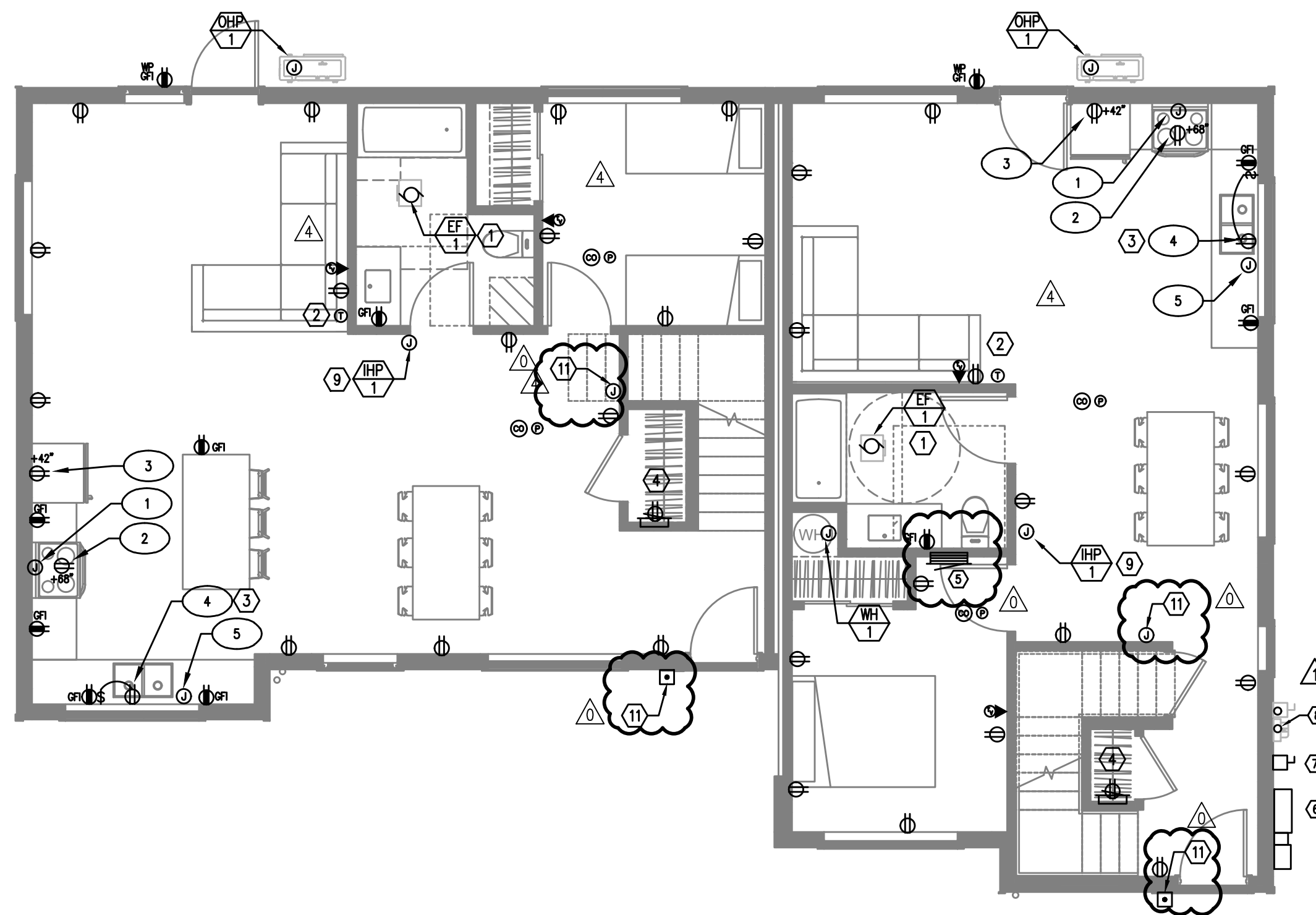
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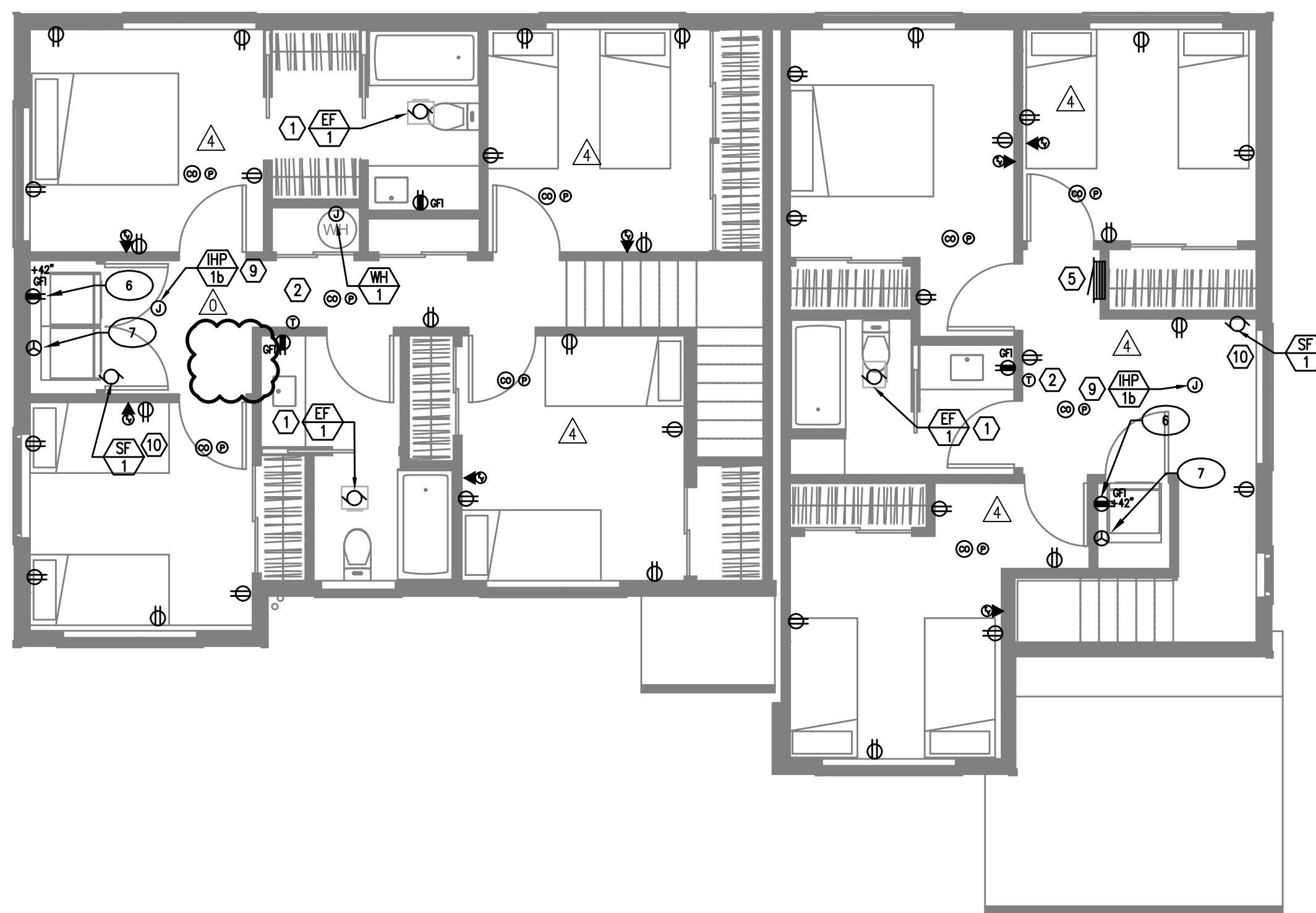
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1 BUILDING 6
E3.01 GROUND FLOOR – POWER PLAN
 SCALE: 3/16" = 1'-0"



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KEY PLAN



07.06.2020



REVISIONS

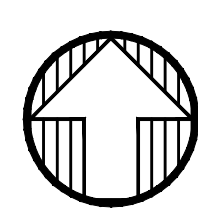
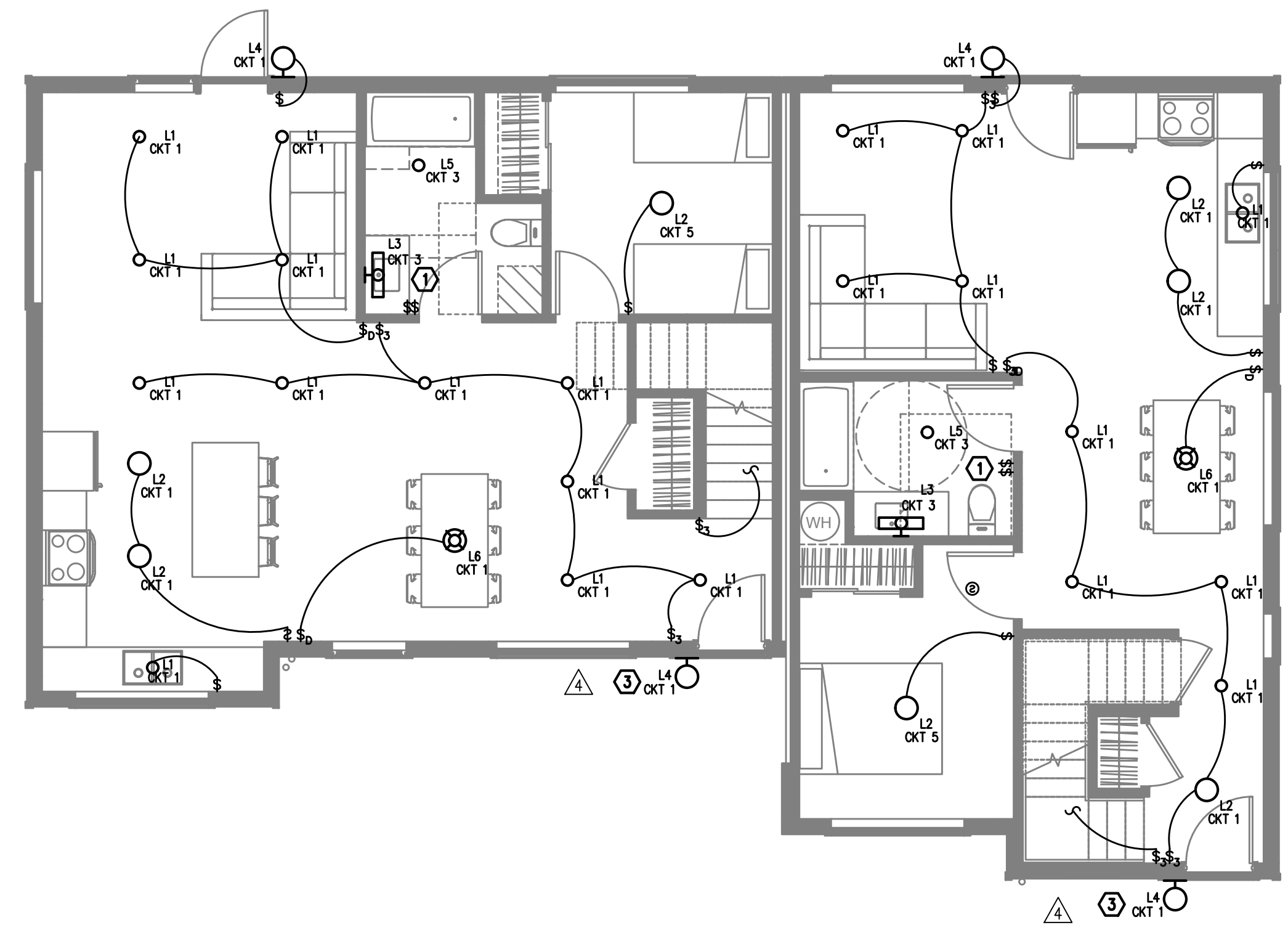
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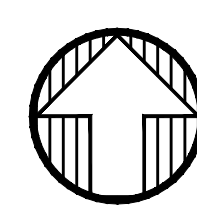
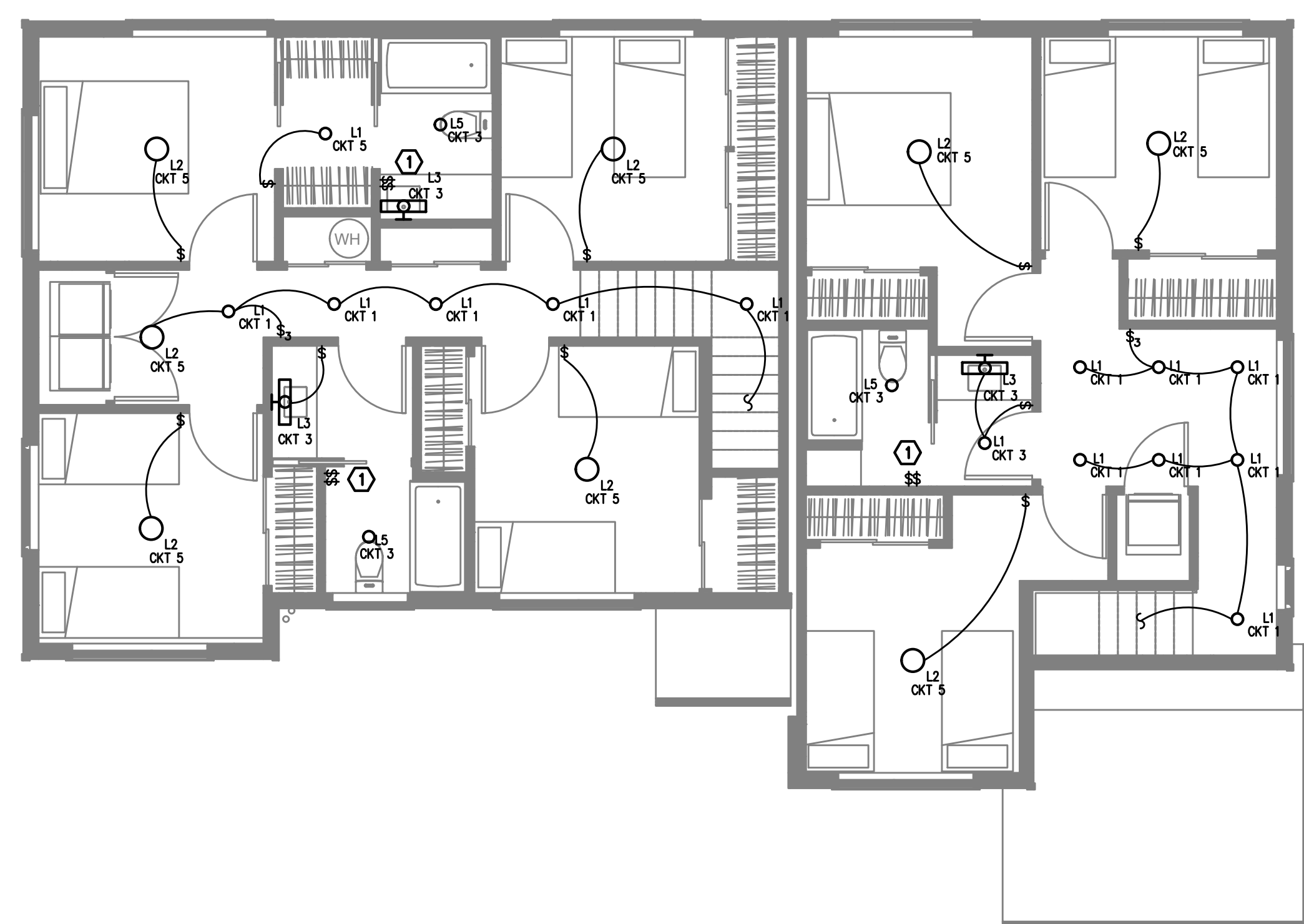
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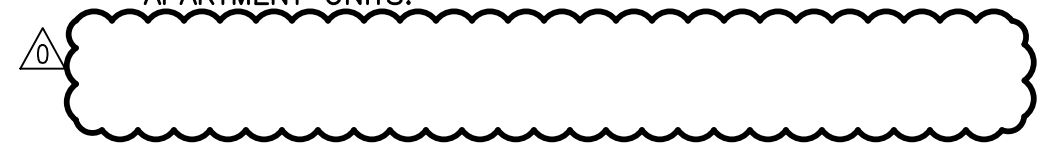
BUILDING 7
1 GROUND FLOOR – LIGHTING PLAN
 E2.01 SCALE: 3/16" = 1'-0"



BUILDING 7
2 SECOND FLOOR – LIGHTING PLAN
 E2.01 SCALE: 3/16" = 1'-0"

GENERAL NOTES:

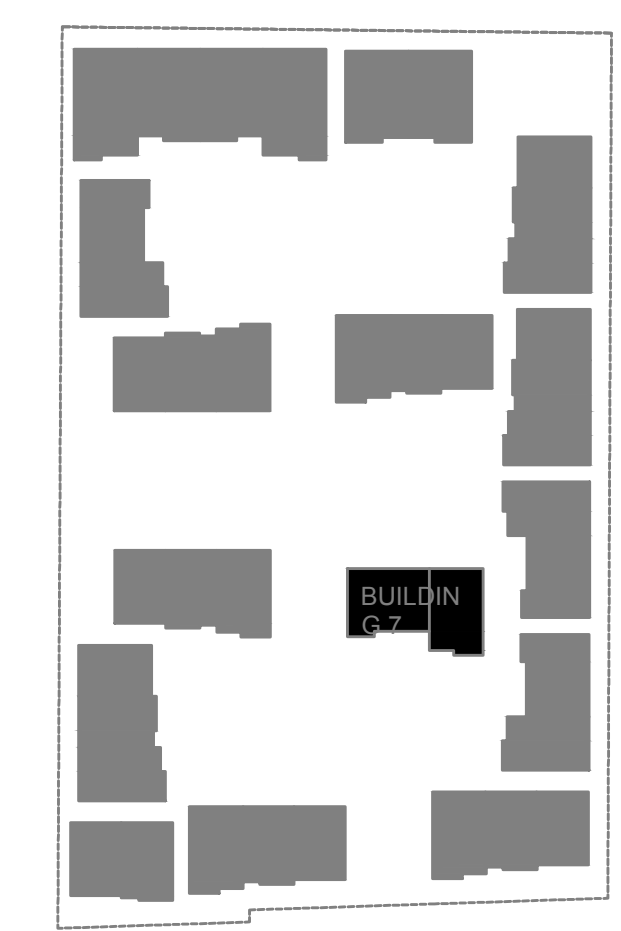
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- 2. NOT USED.
- 3. TOWNHOUSE UNIT ENTRY LIGHTS SHALL BE PROVIDED WITH ROOF MOUNTED PHOTOCELLS FOR DUSK-TILL-DAWN OPERATION. CIRCUIT LIGHT AS INDICATED ON THE PLANS. FIELD ADJUST PHOTOCELL.

KEY PLAN



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PRELIMINARY
 NOT FOR CONSTRUCTION



FOSTER TOWNHOMES
 13415 SE FOSTER ROAD / PORTLAND / OR
 HABITAT FOR HUMANITY

REVISIONS

△	09/18/2020	REVIEW COMMENTS
△	10/09/2020	REVIEW COMMENTS
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△	12/07/2020	ELECTRICAL REVISIONS
△	04/07/2021	REVIEW COMMENTS

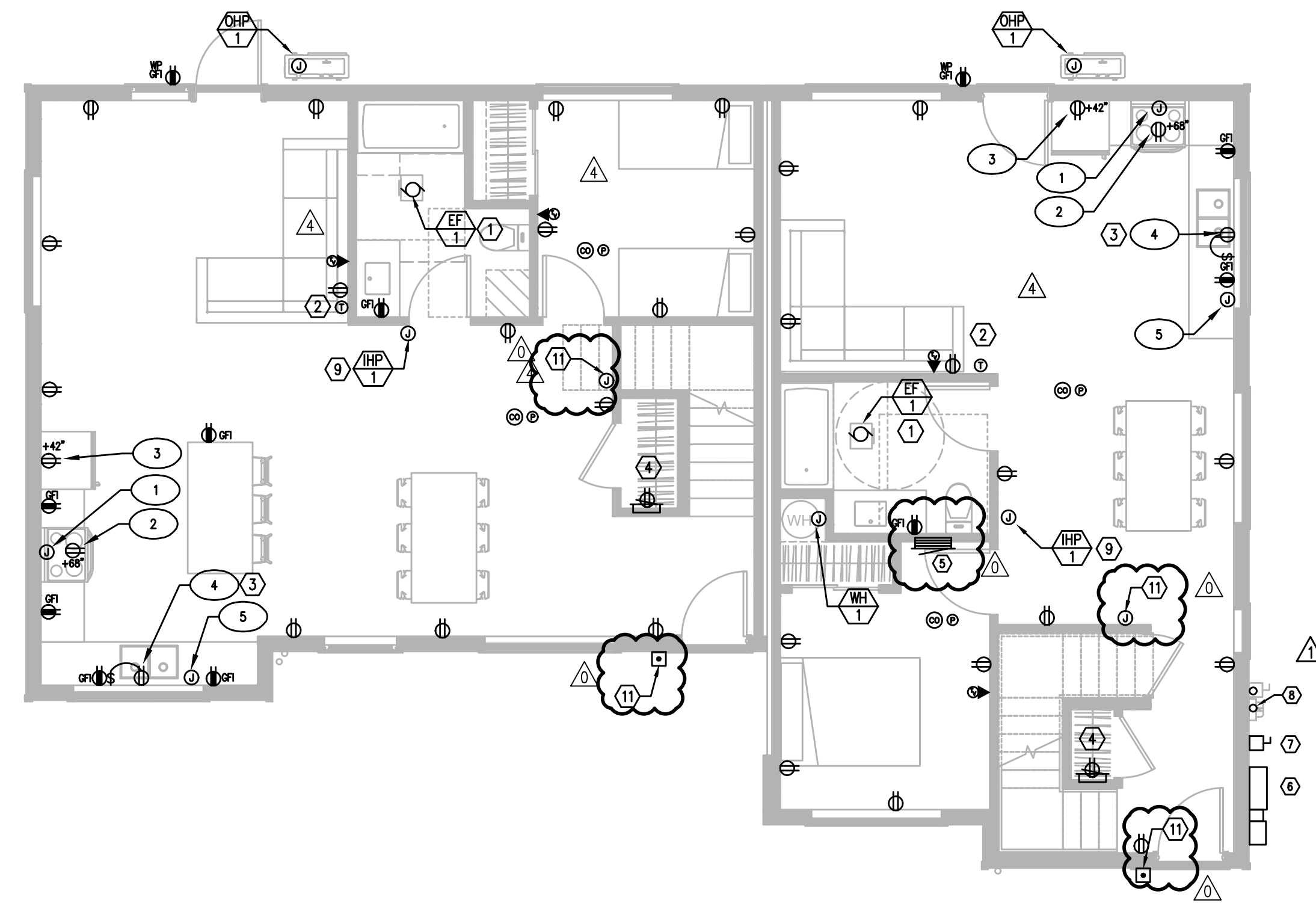
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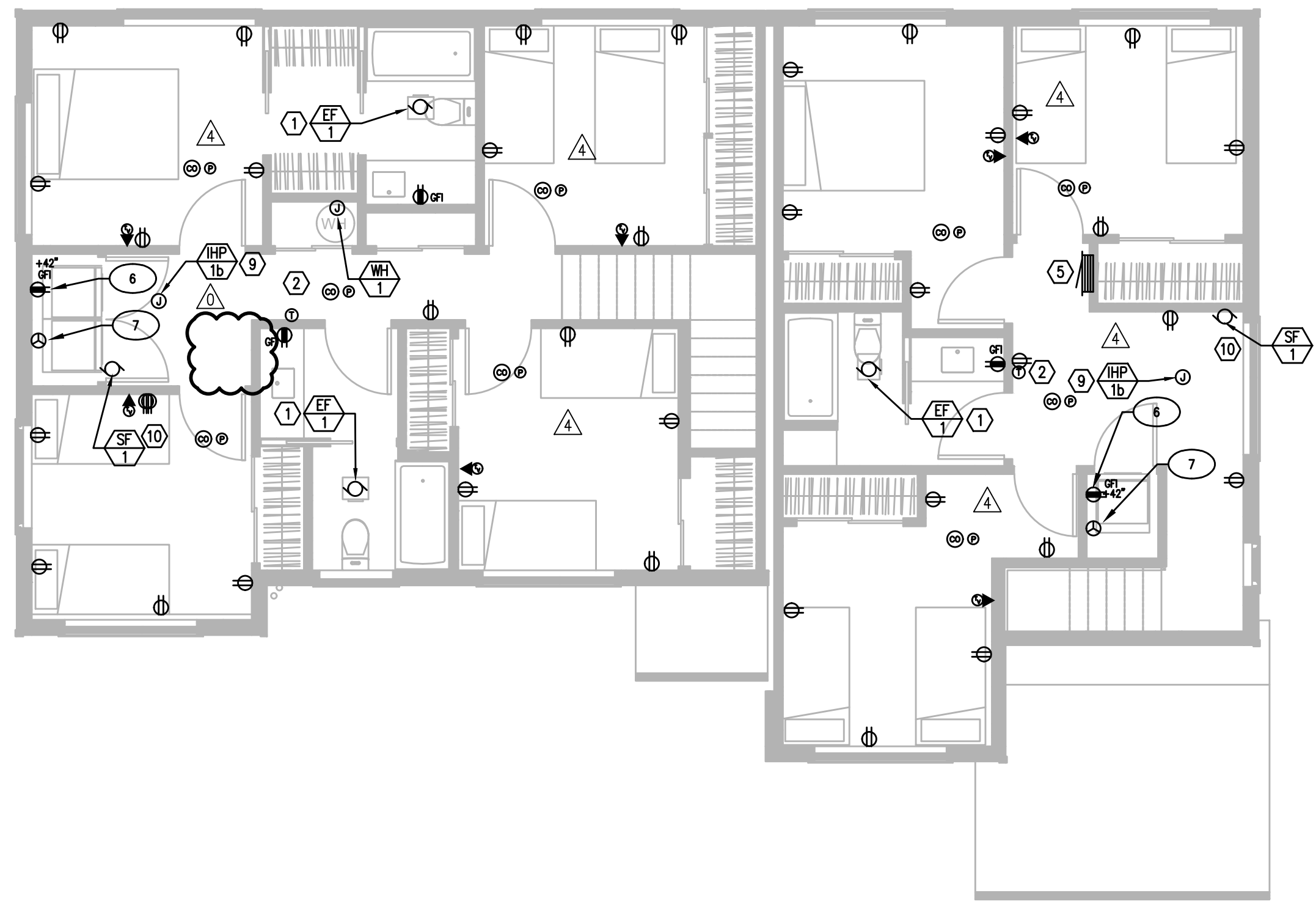
BUILDING 7
LIGHTING PLANS
E7-2.01

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1
E3.01
BUILDING 7
GROUND FLOOR – POWER PLAN
 SCALE: 3/16" = 1'-0"



2
E3.01
BUILDING 7
SECOND FLOOR – POWER PLAN
 SCALE: 3/16" = 1'-0"

GENERAL POWER NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES.
- C. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR, AS REQUIRED. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- D. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS AS REQUIRED. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.
- E. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- F. COORDINATE WITH DIVISION 23 FOR EXACT LOCATION AND POWER REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH IN. REFER TO SHEET E1.4 FOR MECHANICAL EQUIPMENT SCHEDULE.
- G. SERVICE ENTRANCE AND METERING EQUIPMENT SHOWN TO APPROXIMATE SCALE, BASED ON SIEMENS PRODUCTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ENDURING THAT INSTALLED EQUIPMENT FITS THE SPACE PROVIDED AND THAT ALL REQUIRED WORKING CLEARANCES ARE PROVIDED.
- H. FIRE ALARM & DETECTION SYSTEMS ARE TO BE DESIGNED AND INSTALLED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM SYSTEM DESIGNER FOR EXACT LOCATIONS AND PROVIDE ROUGH IN ONLY.
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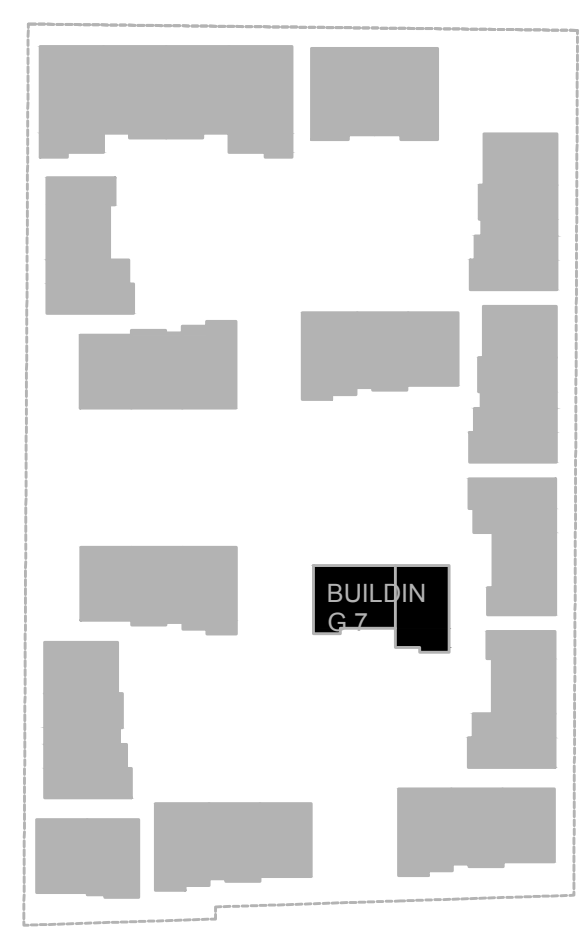
KEYED NOTES:

- 1. BATHROOM EXHAUST FAN CONTROLLED VIA LIGHT SWITCHES. REFER TO TYPICAL UNIT LIGHTING PLANS ON E2 SERIES SHEETS.
- 2. PROVIDE POWER CONNECTION FOR THERMOSTAT. COORDINATE INSTALLATION WITH MECHANICAL EQUIPMENT INSTALLER.
- 3. PROVIDE ONE 15A, 120V DUPLEX RECEPTACLE, MOUNTED UNDER KITCHEN SINK FOR FUTURE GARBAGE DISPOSAL BY OWNER. CIRCUIT AS INDICATED.
- 4. 'SMART PANEL' PER UTILITY REQUIREMENTS, NON-METALLIC, 42"H x 14"W, WITH POWER OUTLET.
- 5. RESIDENTIAL LOAD CENTER. REFER TO SHEET E1.14 FOR TYPICAL PANEL CIRCUIT DIRECTORIES.
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- 7. NEMA 3R HOUSE BRANCH PANEL. PANELS LOCATED AT BUILDINGS #1 & #15 ONLY. REFER TO ONE LINE DIAGRAM ON SHEET E1.11. PROVIDE ONE NEMA 3R 30A, 120V, 1P DISCONNECT SWITCH AT ALL OTHER BUILDINGS FOR BUILDING LIGHTS AND POWER. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
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APPLIANCE SCHEDULE

- 1. RANGE: CKT LC-10,12
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- 4. DISPOSAL: CKT LC-14
- 5. DISH WASHER: CKT LC-16
- 6. LAUNDRY/WASHER: CKT LC-15

KEY PLAN



REVISIONS

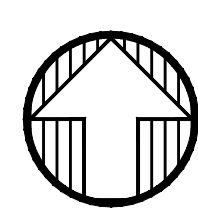
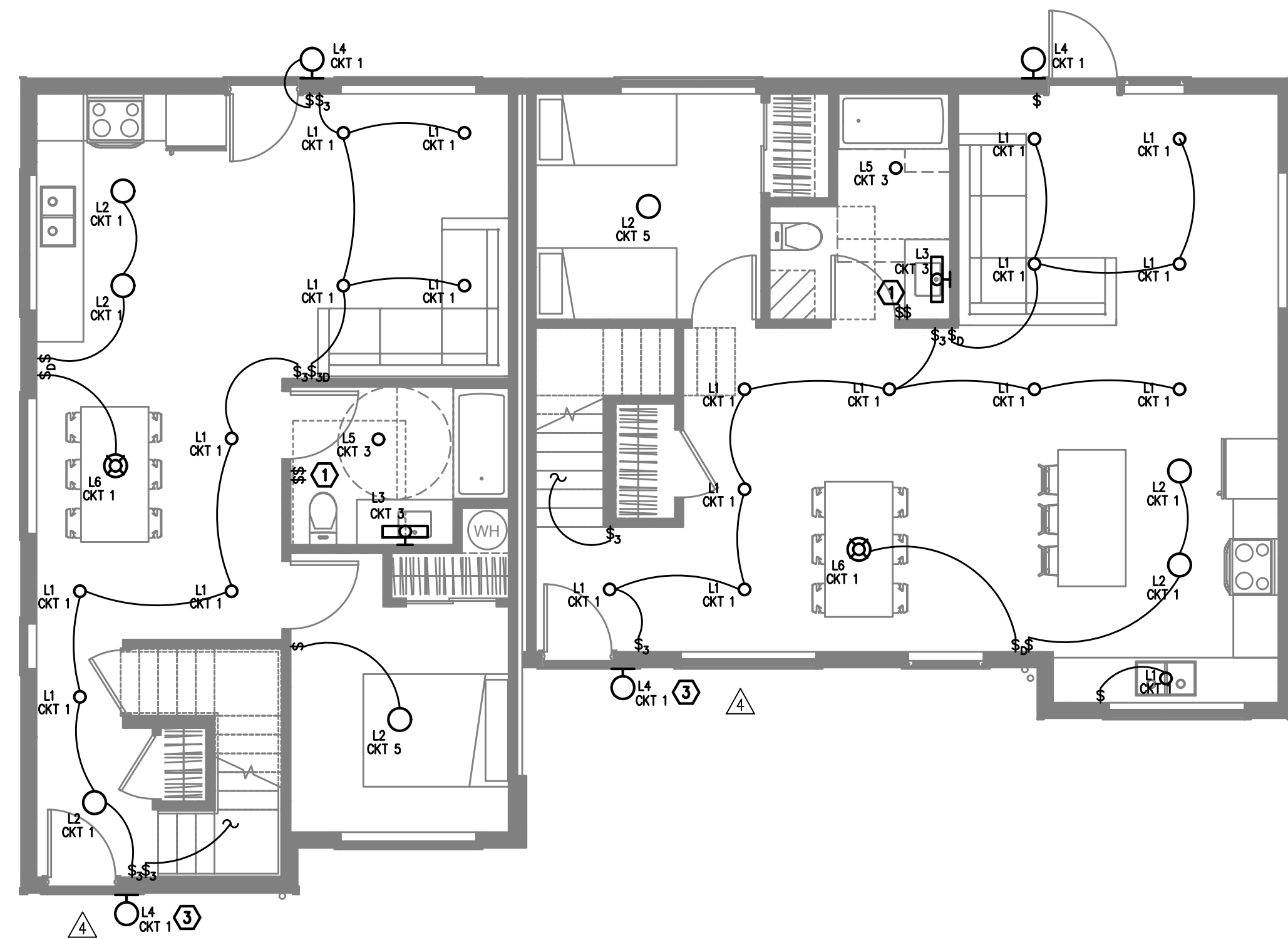
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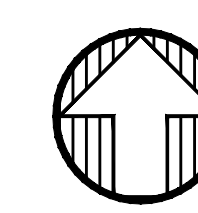
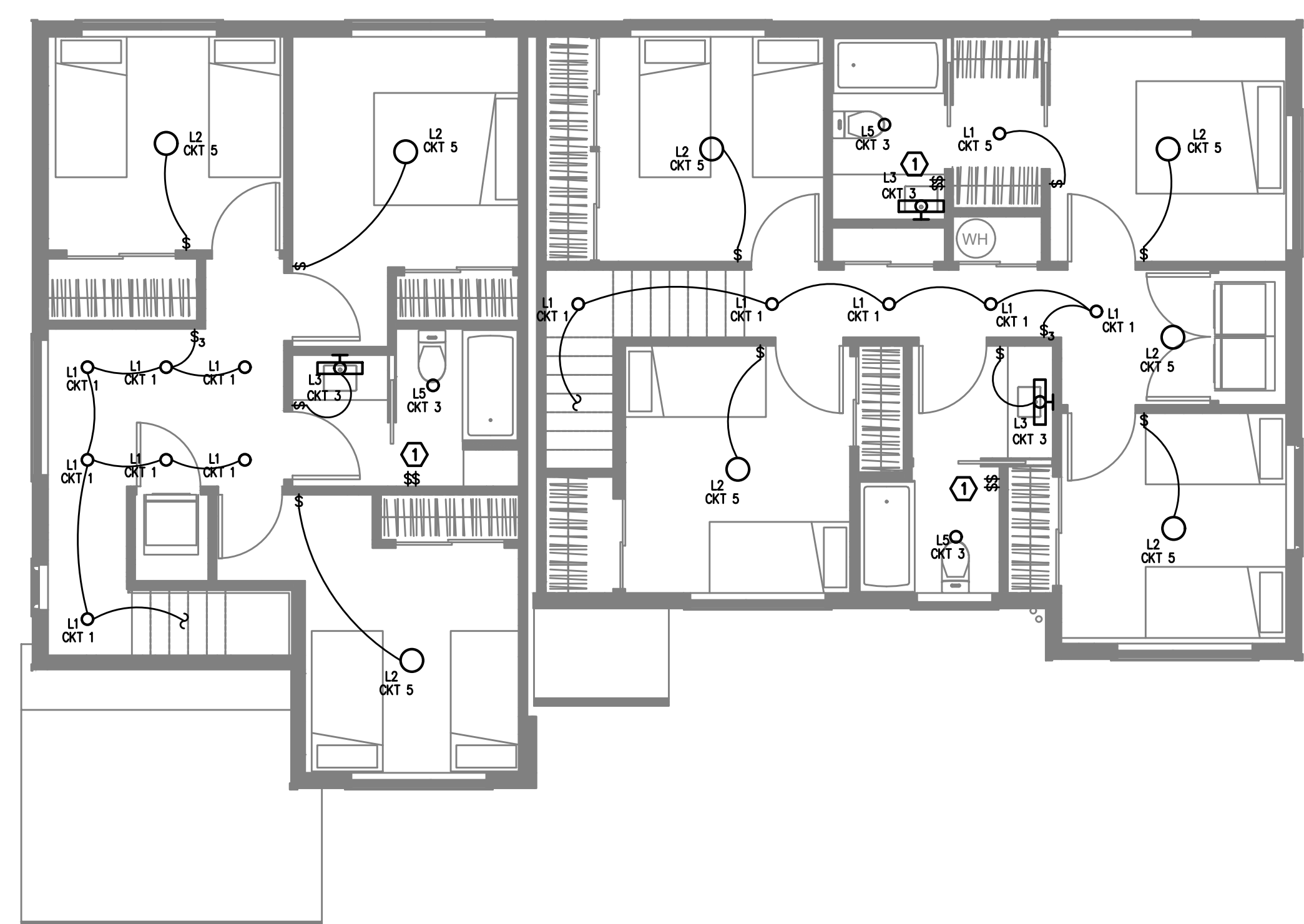
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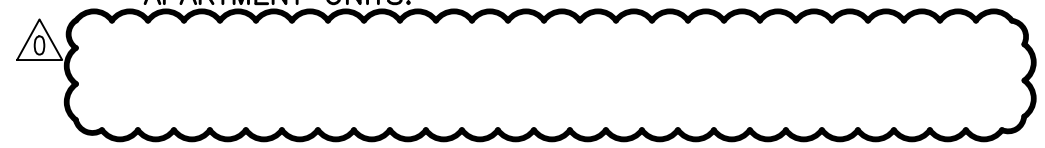
BUILDING 8
1 GROUND FLOOR – LIGHTING PLAN
 E2.01 SCALE: 3/16" = 1'-0"



BUILDING 8
2 SECOND FLOOR – LIGHTING PLAN
 E2.01 SCALE: 3/16" = 1'-0"

GENERAL NOTES:

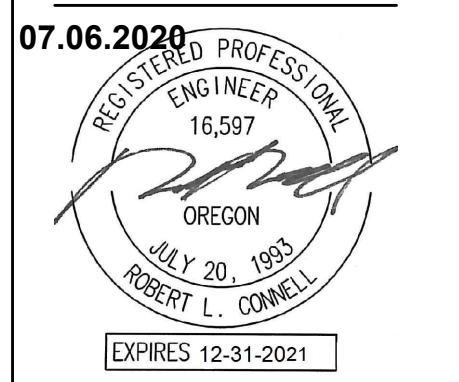
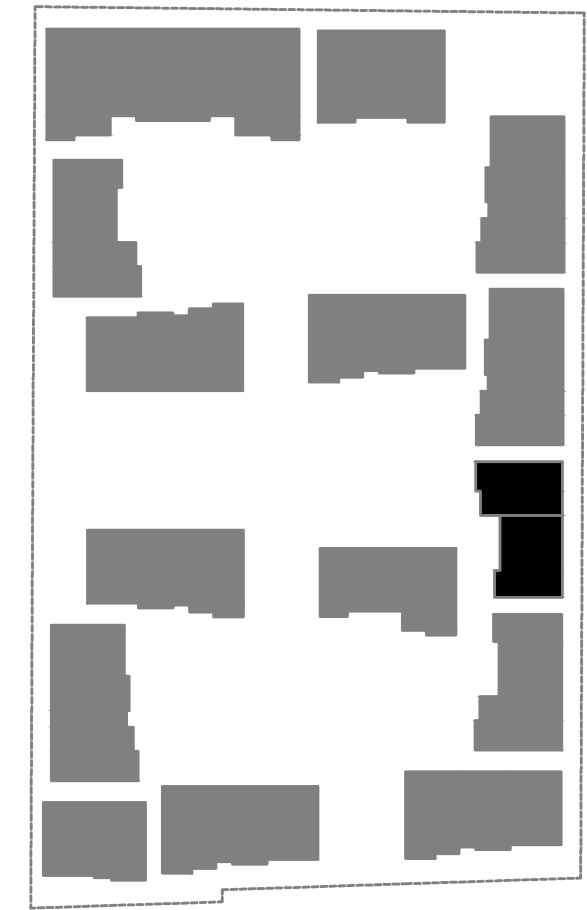
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KEY PLAN



REVISIONS

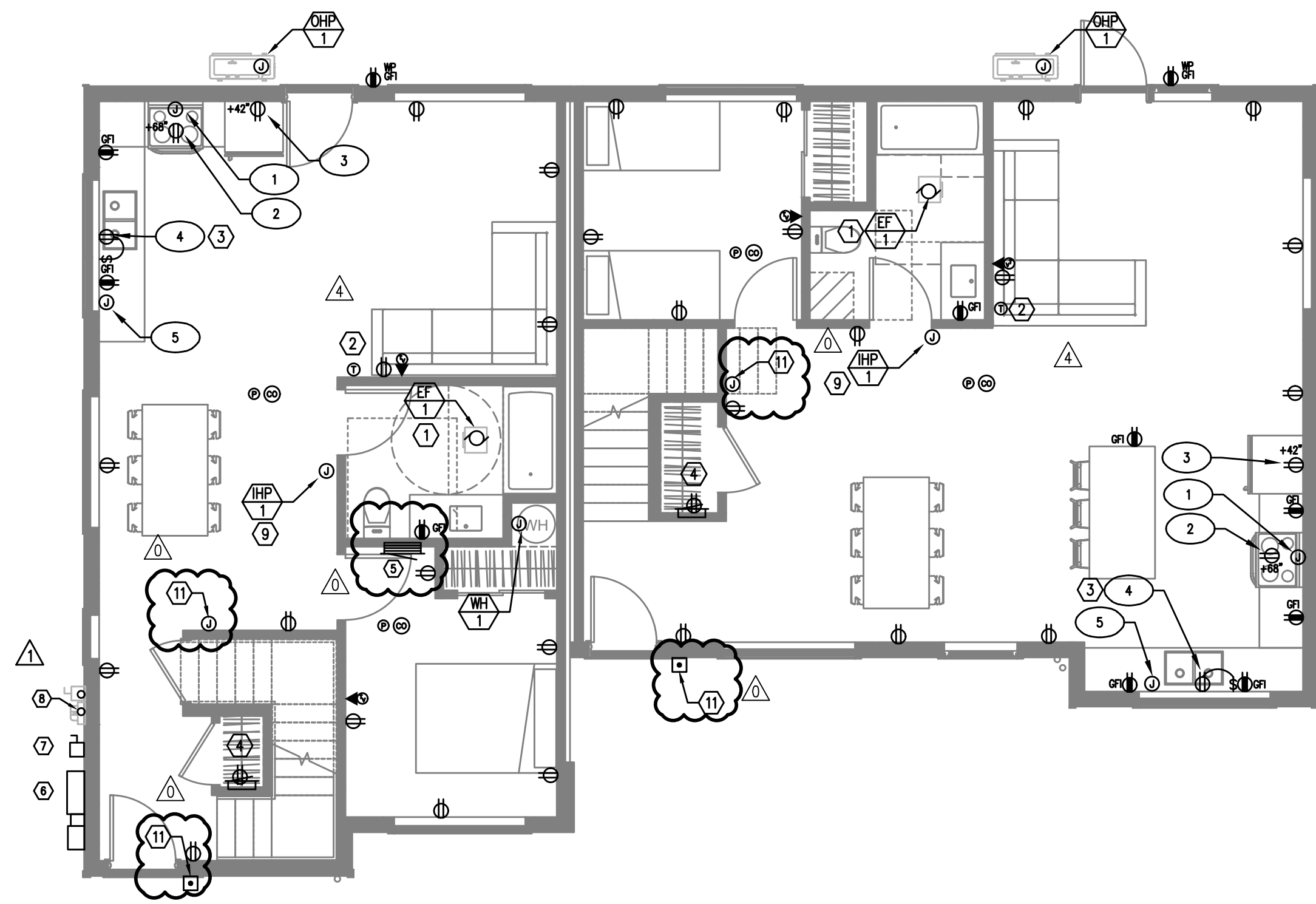
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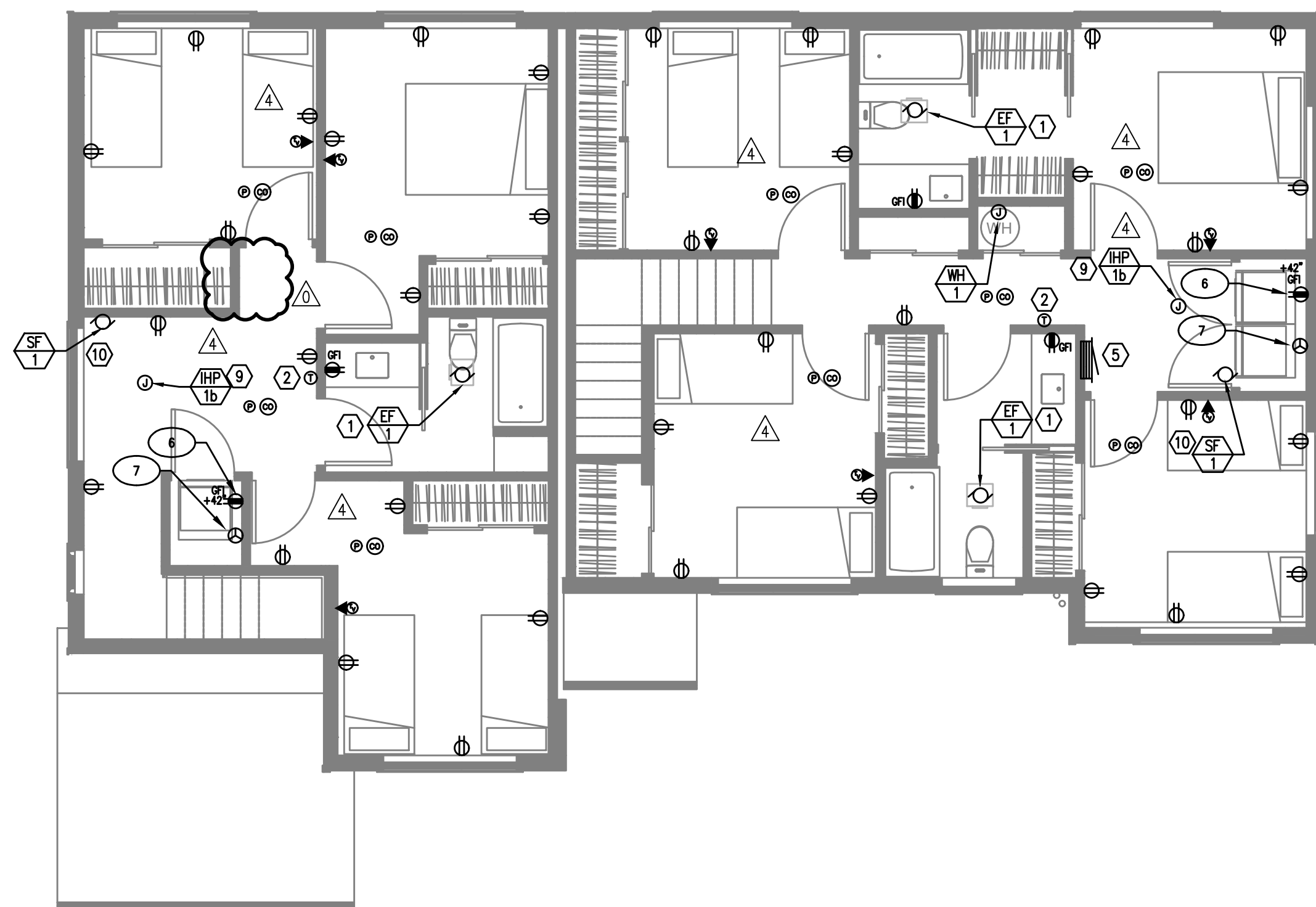
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1 BUILDING 8
E3.01 GROUND FLOOR – POWERPLAN
 SCALE: 3/16" = 1'-0"



2 BUILDING 8
E3.01 SECOND FLOOR – POWERPLAN
 SCALE: 3/16" = 1'-0"

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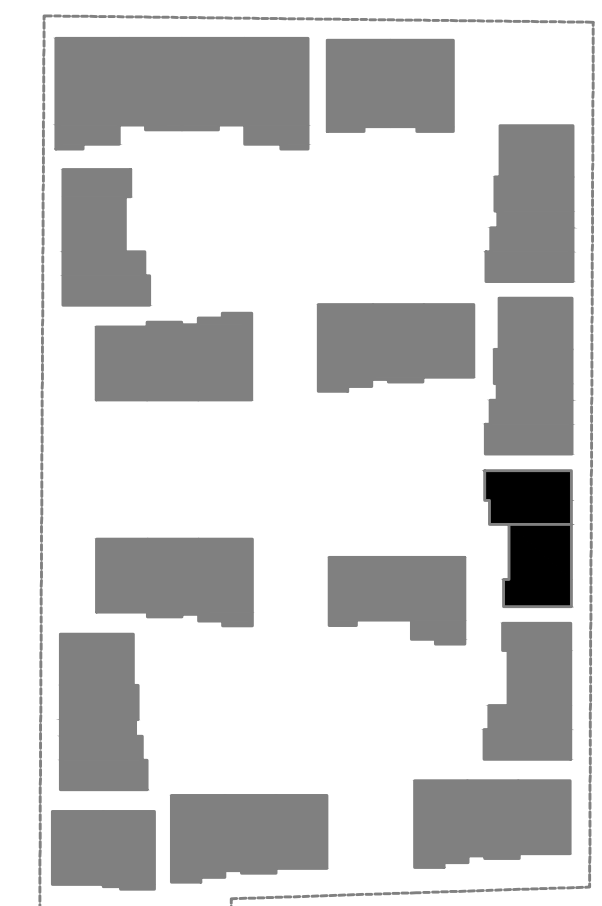
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7. DRYER: CKT LC-17,18

KEY PLAN



REVISIONS

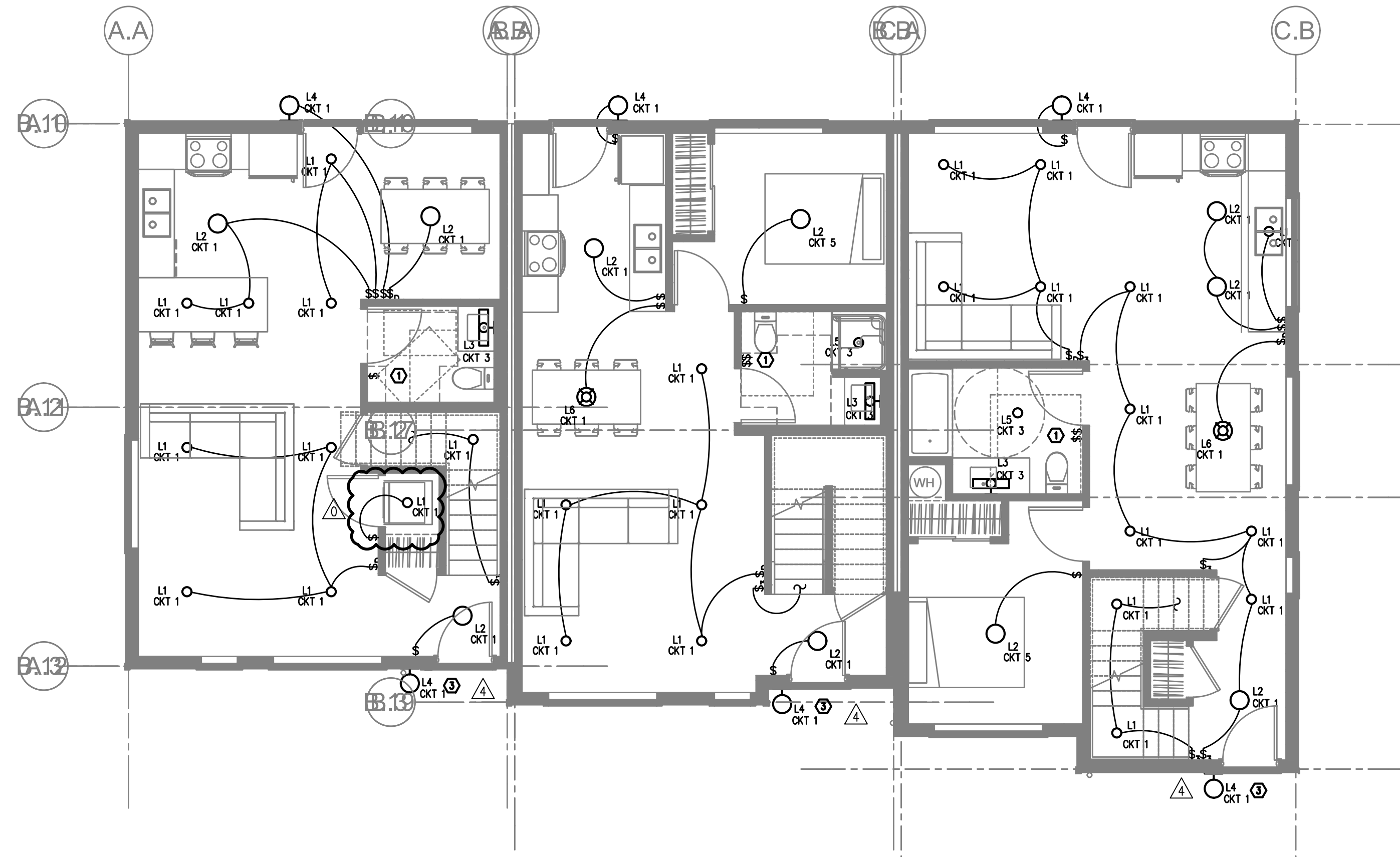
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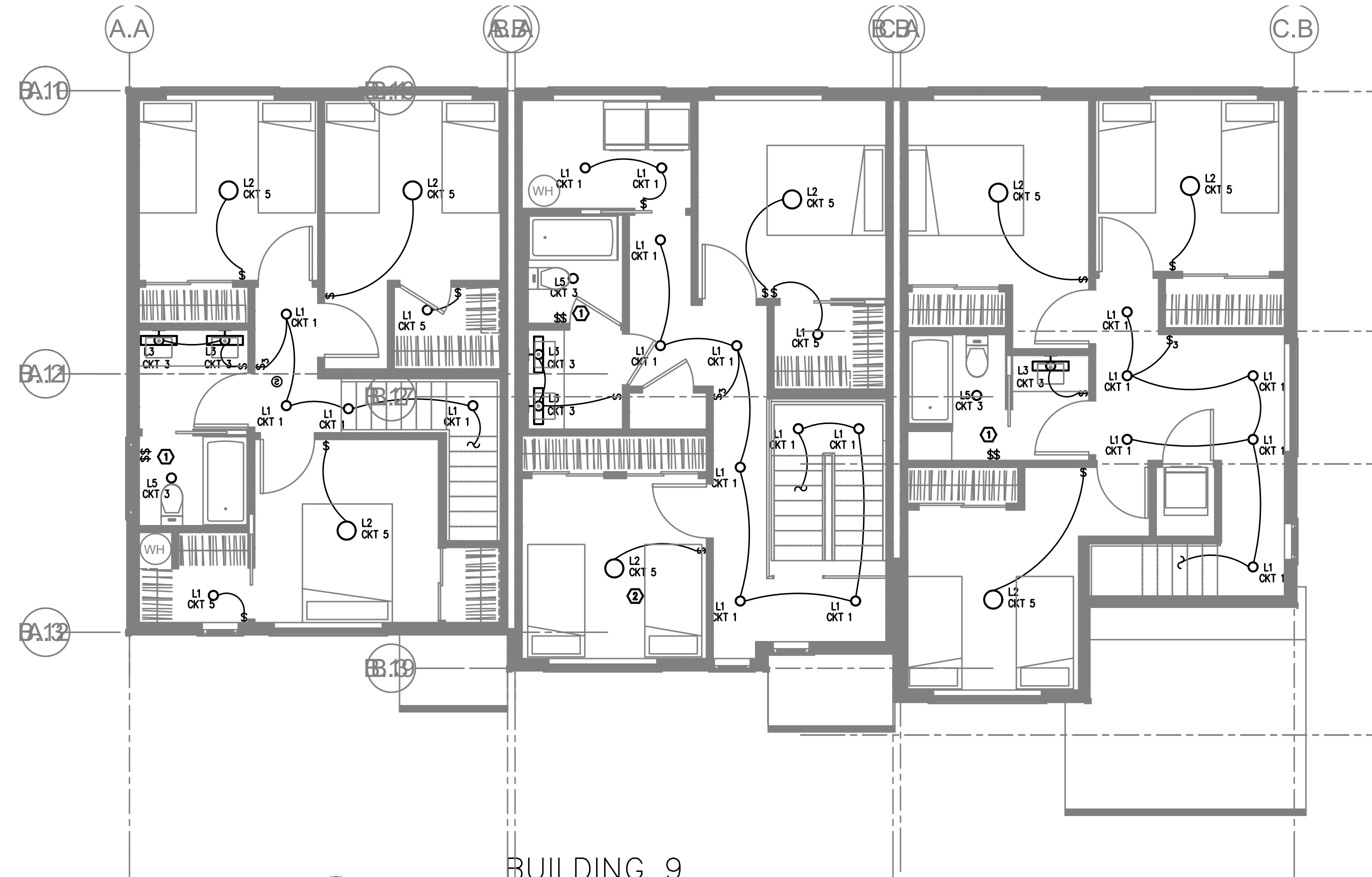
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BUILDING 9
1 GROUND FLOOR – LIGHTING PLAN
 SCALE: 3/16" = 1'-0"



BUILDING 9
2 SECOND FLOOR – LIGHTING PLAN
 SCALE: 3/16" = 1'-0"

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 CONTACT: DENISE TAYLOR

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07.06.2020
 REGISTERED PROFESSIONAL
 ENGINEER
 16,597
 OREGON
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 ROBERT L. CONNELL
 EXPIRES 12-31-2021

FOSTER TOWNHOMES

13415 SE FOSTER ROAD / PORTLAND / OR

HABITAT FOR HUMANITY

REVISIONS

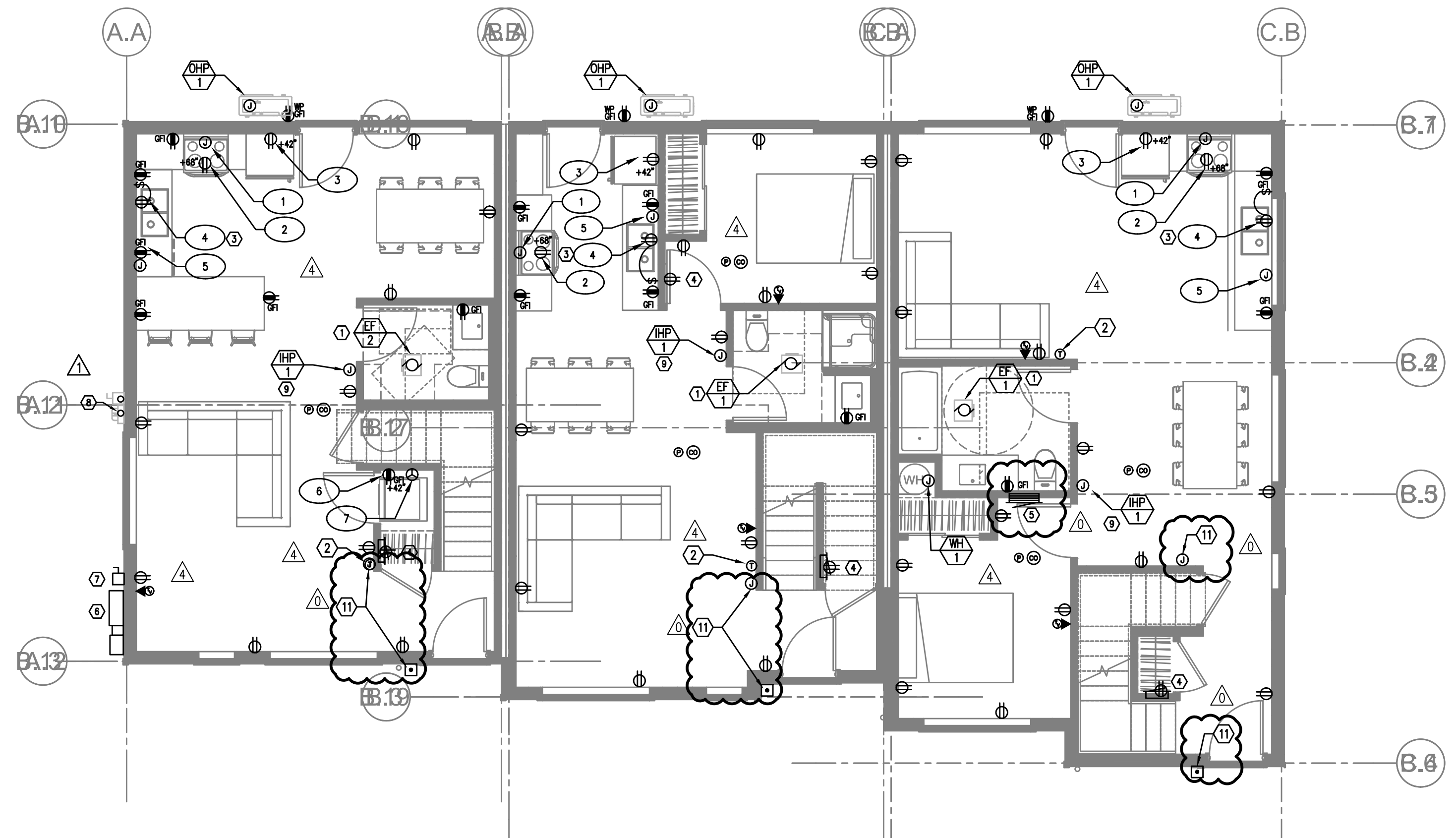
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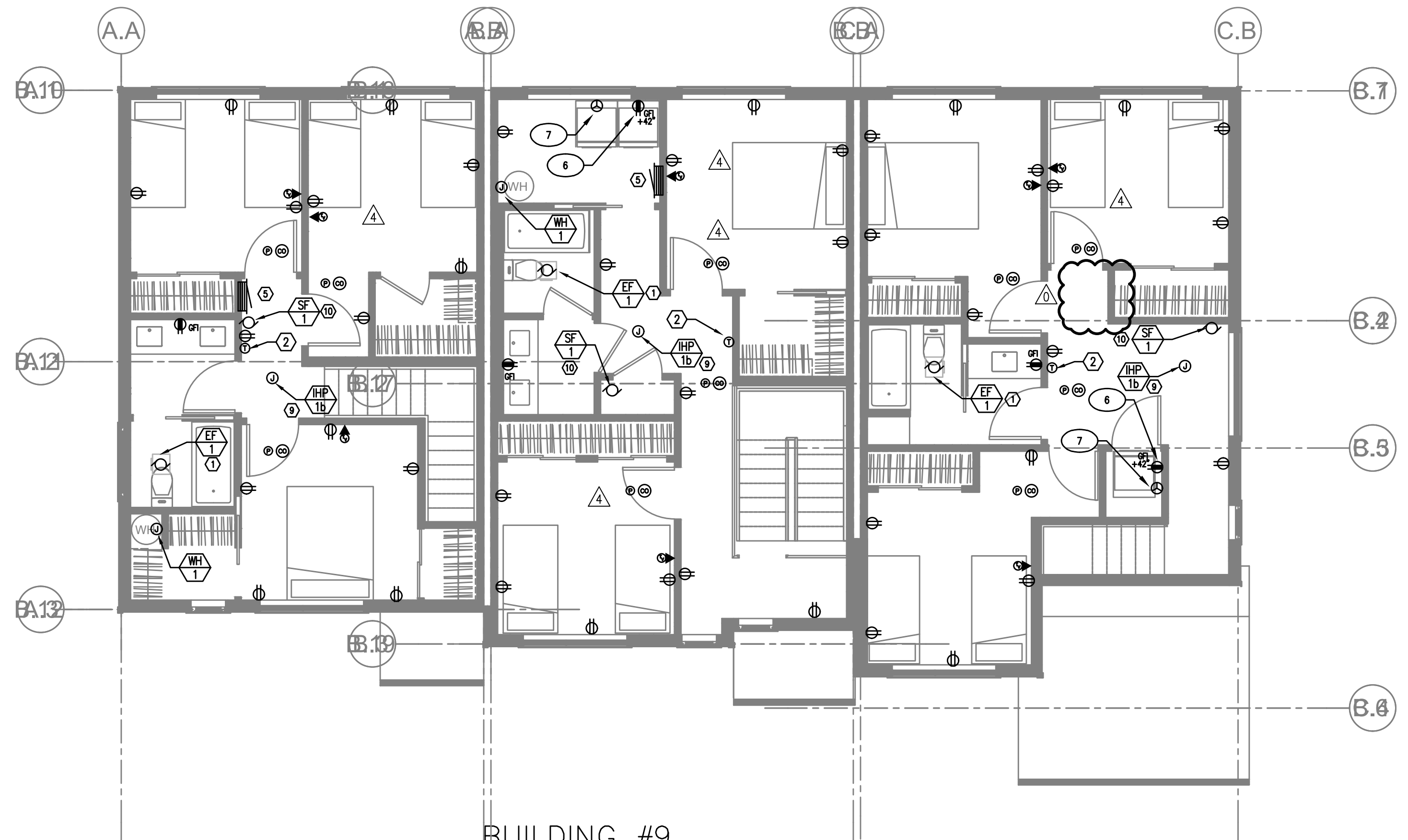
BUILDING 9
LIGHTING PLANS
E9-2.01

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BUILDING #9
1 GROUND FLOOR – POWER PLAN
 SCALE: 3/16" = 1'-0"



BUILDING #9
2 SECOND FLOOR – POWER PLAN
 SCALE: 3/16" = 1'-0"

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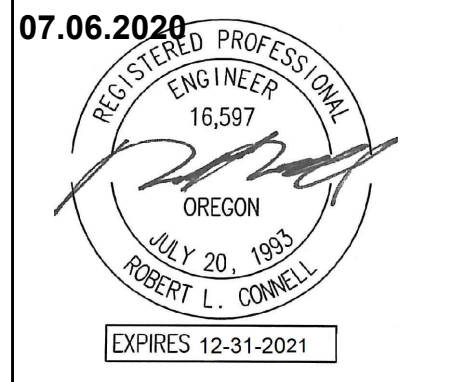
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- 7. DRYER: CKT LC-17,19

KEY PLAN

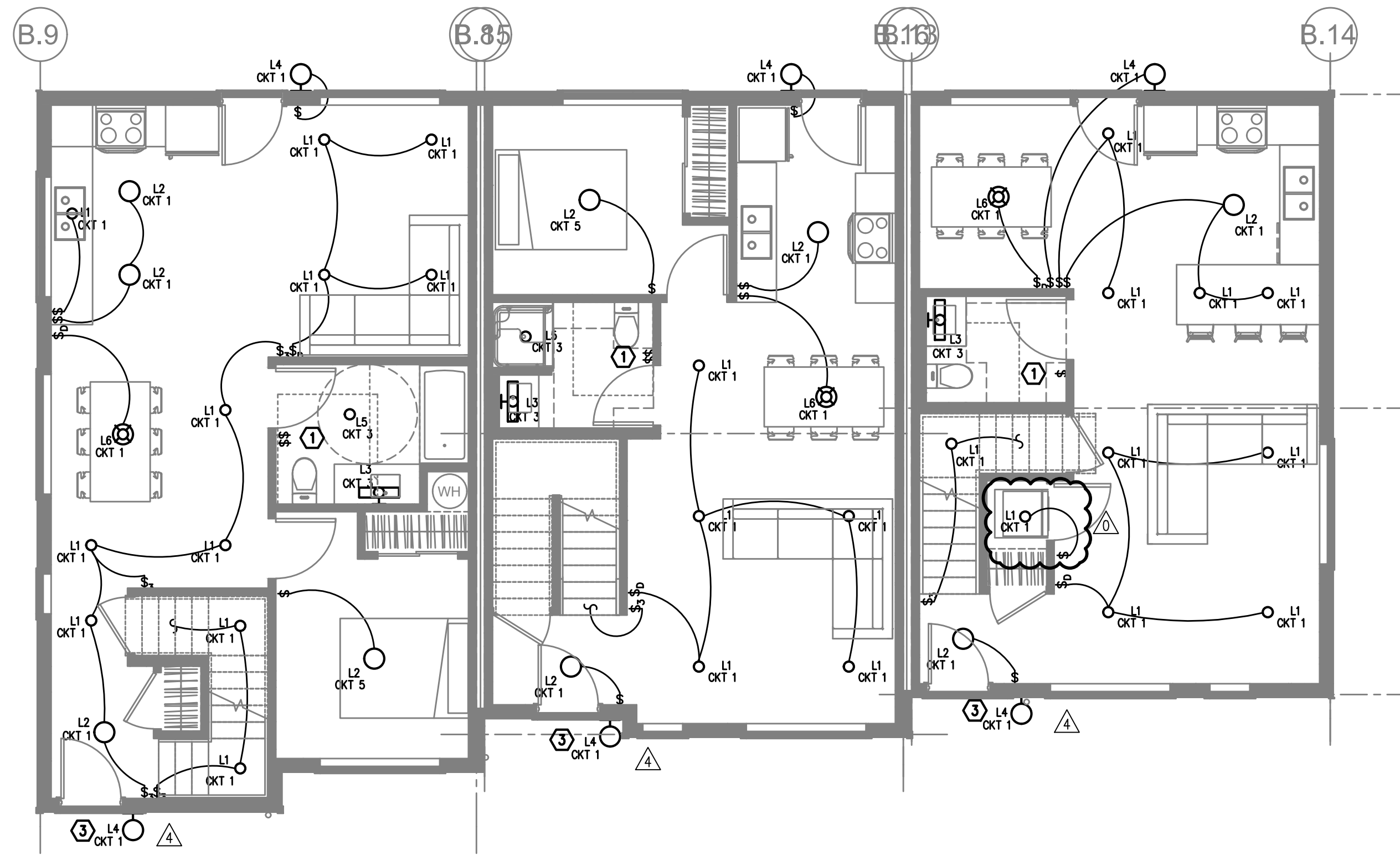


REVISIONS

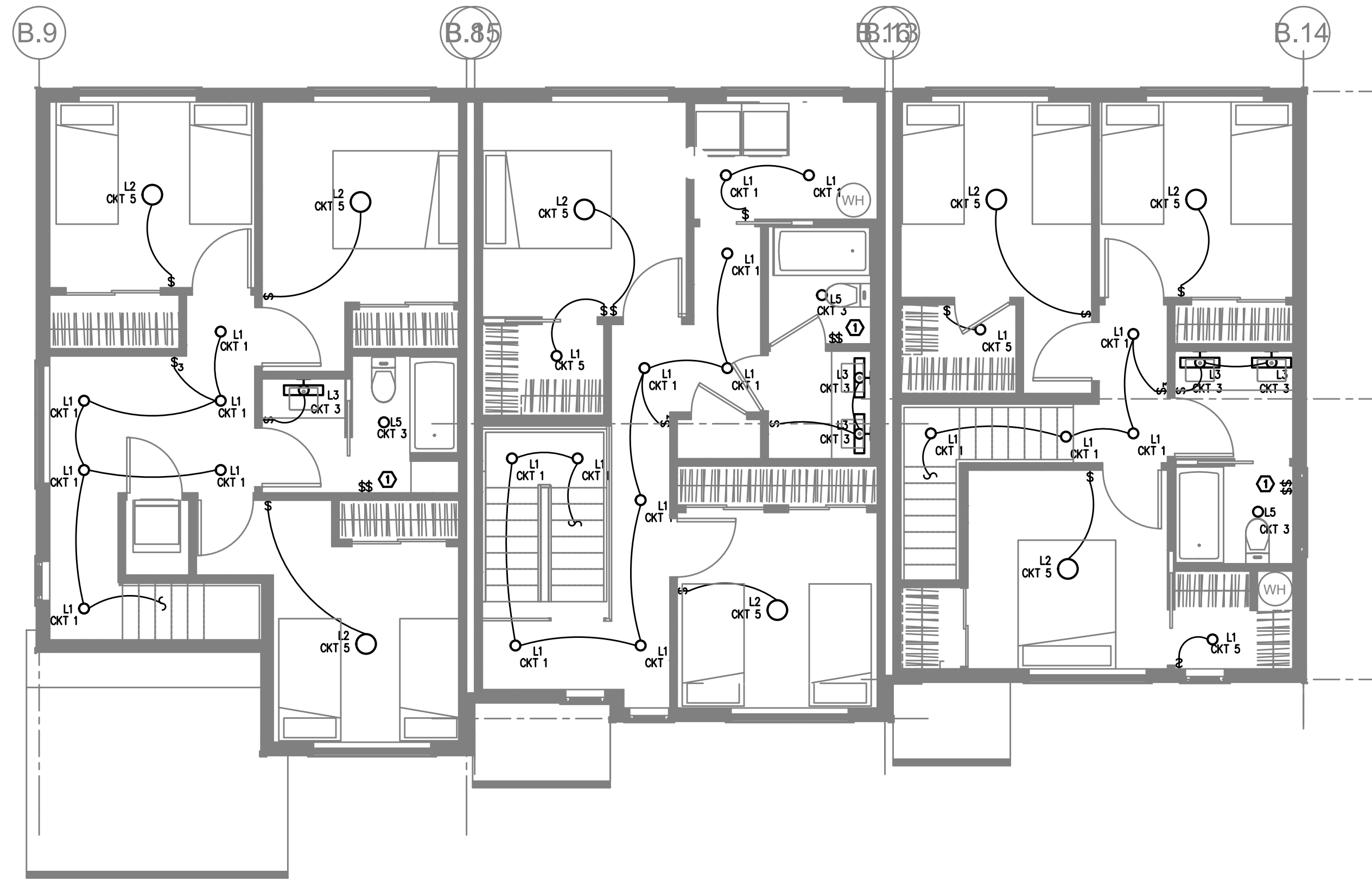
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12/07/2020	ELECTRICAL REVISIONS
04/07/2021	REVIEW COMMENTS

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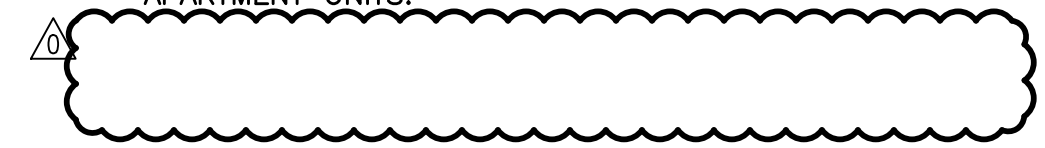
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 BUILDING 10
 GROUND FLOOR – LIGHTING PLAN
 SCALE: 3/16" = 1'-0"



1
 BUILDING 10
 SECOND FLOOR – LIGHTING PLAN
 SCALE: 3/16" = 1'-0"

GENERAL NOTES:

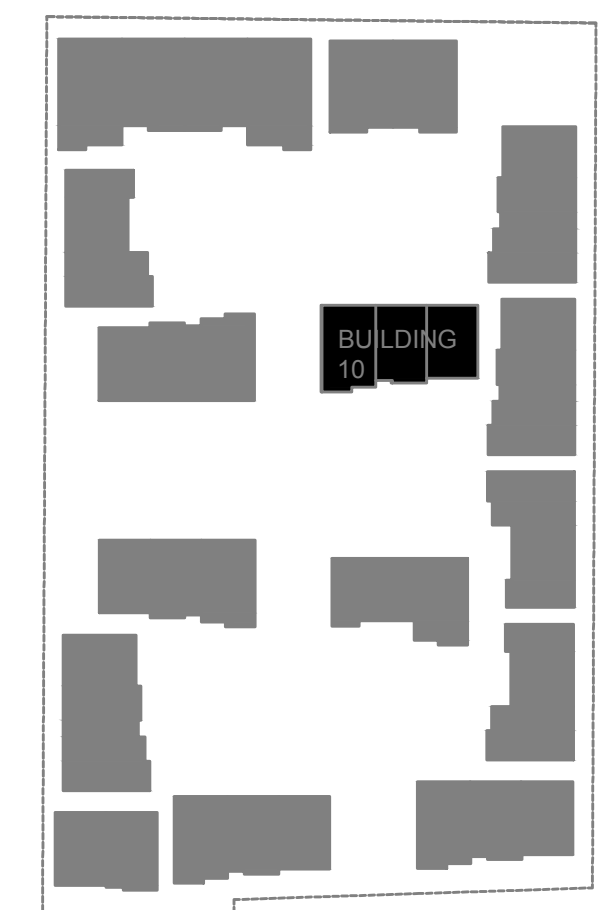
- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- C. REFER TO SHEET E1.3 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
- D. ALL LIGHT SWITCHES SHALL BE ROCKER STYLE, SUCH AS LEVITON DECORA, OR APPROVED EQUAL.
- E. REFER TO E3 SERIES SHEETS FOR TYPICAL UNIT POWER PLANS.
- F. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE MECHANICAL PLAN SHEETS AND COORDINATE WITH THE MECHANICAL INSTALLER TO AVOID CONFLICTS BETWEEN HVAC EQUIPMENT AND LIGHT FIXTURES WITHIN THE APARTMENT UNITS.



KEYED NOTES:

- 1. REFER TO E1.21 FOR TYPICAL BATHROOM SWITCHING DIAGRAM.
- 2. NOT USED.
- 3. TOWNHOUSE UNIT ENTRY LIGHTS SHALL BE PROVIDED WITH ROOF MOUNTED PHOTOCELLS FOR DUSK-TILL-DAWN OPERATION. CIRCUIT LIGHT AS INDICATED ON THE PLANS. FIELD ADJUST PHOTOCELL.

KEY PLAN



07.06.2020



REVISIONS

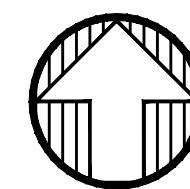
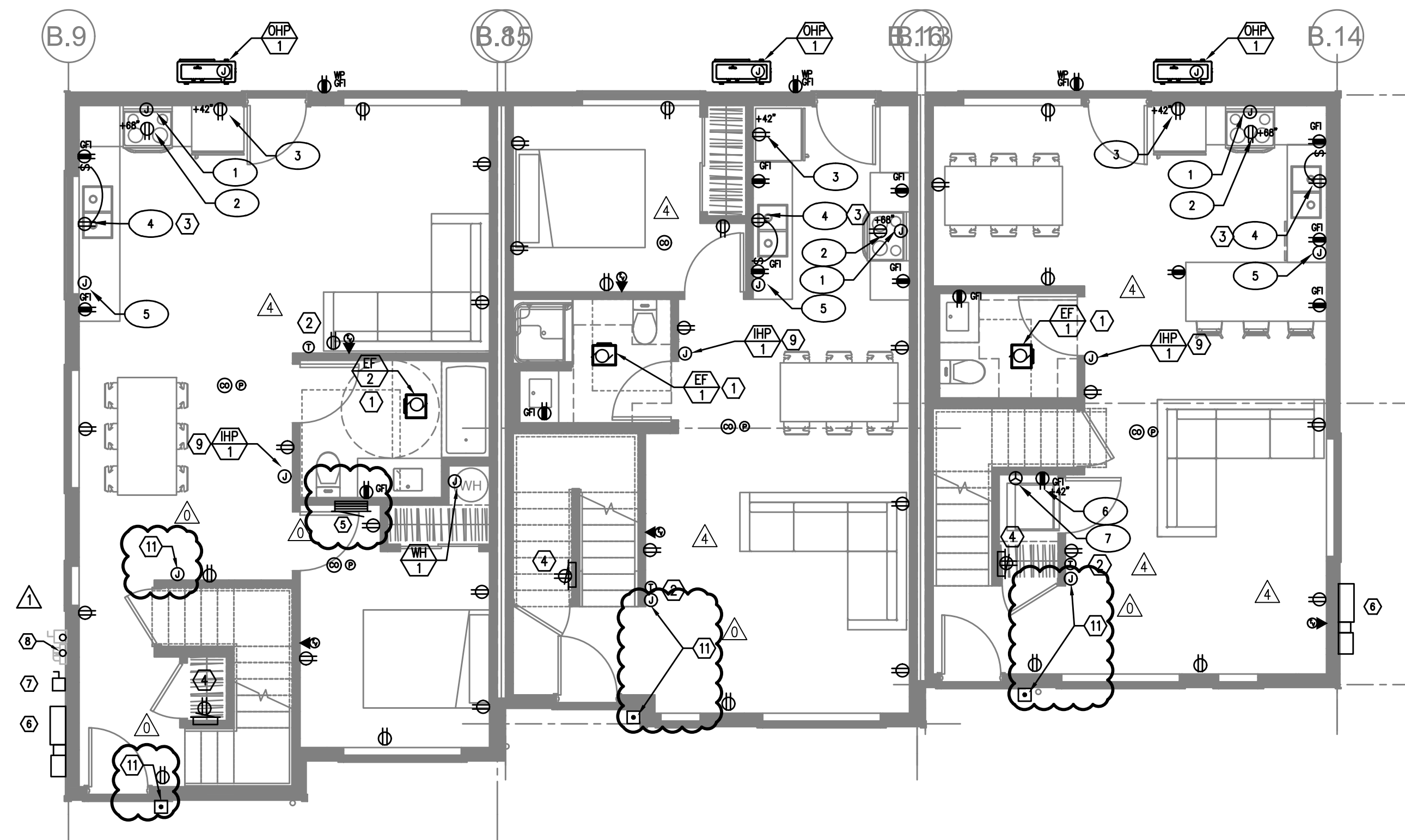
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- 04/07/2021 REVIEW COMMENTS

PERMIT DOCUMENTS

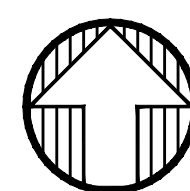
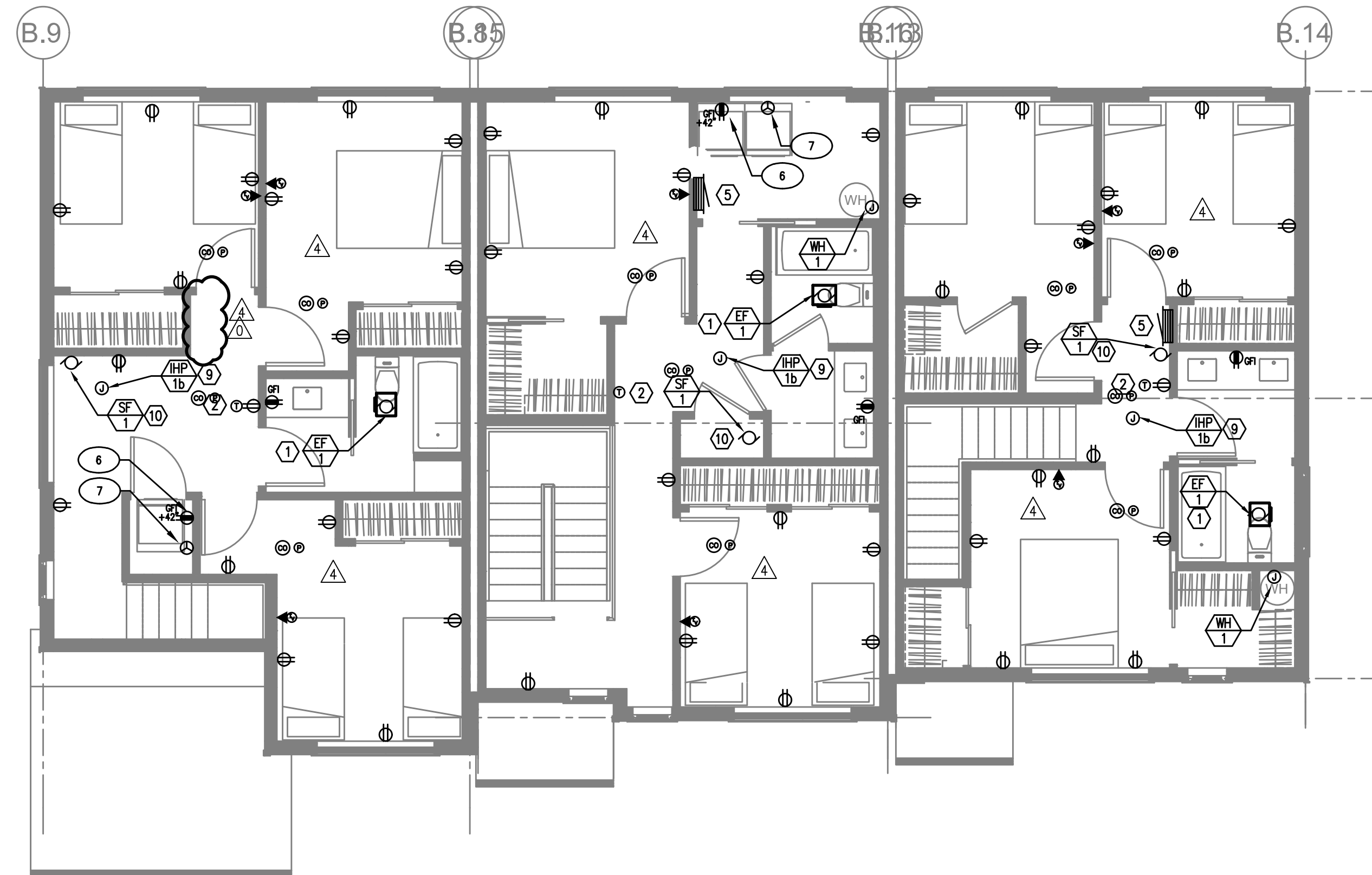
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BUILDING #10
1 GROUND FLOOR – POWER PLAN
 E3.01 SCALE: 3/16" = 1'-0"



BUILDING #10
2 SECOND FLOOR – POWER PLAN
 E3.01 SCALE: 3/16" = 1'-0"

GENERAL POWER NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES.
- C. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR, AS REQUIRED. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- D. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS AS REQUIRED. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.
- E. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- F. COORDINATE WITH DIVISION 23 FOR EXACT LOCATION AND POWER REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH IN. REFER TO SHEET E1.4 FOR MECHANICAL EQUIPMENT SCHEDULE.
- G. SERVICE ENTRANCE AND METERING EQUIPMENT SHOWN TO APPROXIMATE SCALE, BASED ON SIEMENS PRODUCTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ENDURING THAT INSTALLED EQUIPMENT FITS THE SPACE PROVIDED AND THAT ALL REQUIRED WORKING CLEARANCES ARE PROVIDED.
- H. FIRE ALARM & DETECTION SYSTEMS ARE TO BE DESIGNED AND INSTALLED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM SYSTEM DESIGNER FOR EXACT LOCATIONS AND PROVIDE ROUGH IN ONLY.
- I. ANY LOW VOLTAGE TELECOM DEVICES SHOWN ARE STRICTLY DIAGRAMMATIC AND SHOWN FOR REFERENCE ONLY. LOW VOLTAGE SYSTEMS ARE TO BE DESIGNED AND INSTALLED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE SERVICE PROVIDER FOR EXACT LOCATIONS AND PROVIDE ROUGH IN ONLY.

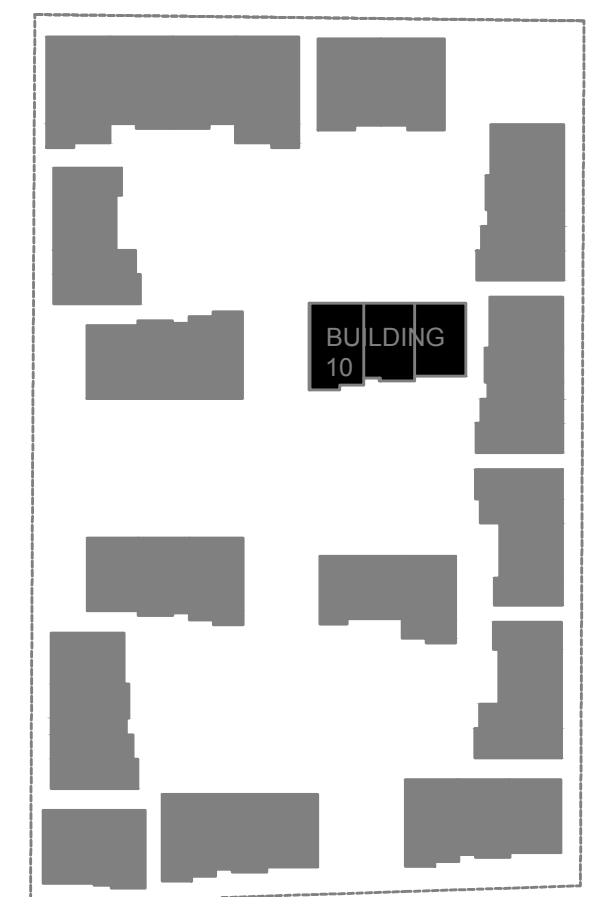
KEYED NOTES:

- 1. BATHROOM EXHAUST FAN CONTROLLED VIA LIGHT SWITCHES. REFER TO TYPICAL UNIT LIGHTING PLANS ON E2 SERIES SHEETS.
- 2. PROVIDE POWER CONNECTION FOR THERMOSTAT. COORDINATE INSTALLATION WITH MECHANICAL EQUIPMENT INSTALLER.
- 3. PROVIDE ONE 15A, 120V DUPLEX RECEPTACLE, MOUNTED UNDER KITCHEN SINK FOR FUTURE GARBAGE DISPOSAL BY OWNER. CIRCUIT AS INDICATED.
- 4. 'SMART PANEL' PER UTILITY REQUIREMENTS, NON-METALLIC, 42"H x 14"W, WITH POWER OUTLET.
- 5. RESIDENTIAL LOAD CENTER. REFER TO SHEET E1.14 FOR TYPICAL PANEL CIRCUIT DIRECTORIES.
- 6. TYPICAL LOCATION FOR BUILDING UTILITY METERS. REFER TO SHEET E1.01 FOR ADDITIONAL INFORMATION. METERING EQUIPMENT SHALL BE INSTALLED IN UTILITY PROVIDER APPROVED LOCATION. REFER TO THE UTILITY PROVIDER'S ELECTRICAL SERVICE REQUIREMENTS FOR ADDITIONAL INFORMATION.
- 7. NEMA 3R HOUSE BRANCH PANEL. PANELS LOCATED AT BUILDINGS #1 & #15 ONLY. REFER TO ONE-LINE DIAGRAM ON SHEET E1.11. PROVIDE ONE NEMA 3R 30A, 120V, 1P DISCONNECT SWITCH AT ALL OTHER BUILDINGS FOR BUILDING LIGHTS AND POWER. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- 8. FUTURE PV SOLAR SYSTEM BY OTHERS. PROVIDE TWO 2" CONDUITS W/ PULL STRINGS, ROUTED FROM THE EQUIPMENT ROOM TO THE ROOF AND CAP BOTH ENDS.
- 9. INDOOR PORTION OF THE HVAC SPLIT SYSTEM IS INTERCONNECTED WITH THE CORRESPONDING OUTDOOR UNIT. COORDINATE EXACT ELECTRICAL REQUIREMENTS AND LOCATIONS WITH THE MECHANICAL EQUIPMENT INSTALLER.
- 10. TIE CONTINUOUS OPERATION SUPPLY FAN INTO HALLWAY RECEPTACLE CIRCUIT.
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APPLIANCE SCHEDULE

- 1. RANGE: CKT LC-10,12
- 2. FOOD MICROWAVE: CKT LC-8
- 3. REFRIGERATOR: CKT LC-6
- 4. DISPOSAL: CKT LC-14
- 5. DISH WASHER: CKT LC-16
- 6. LAUNDRY/WASHER: CKT LC-15
- 7. DRYER: CKT LC-17,19

KEY PLAN



07.06.2020



REVISIONS

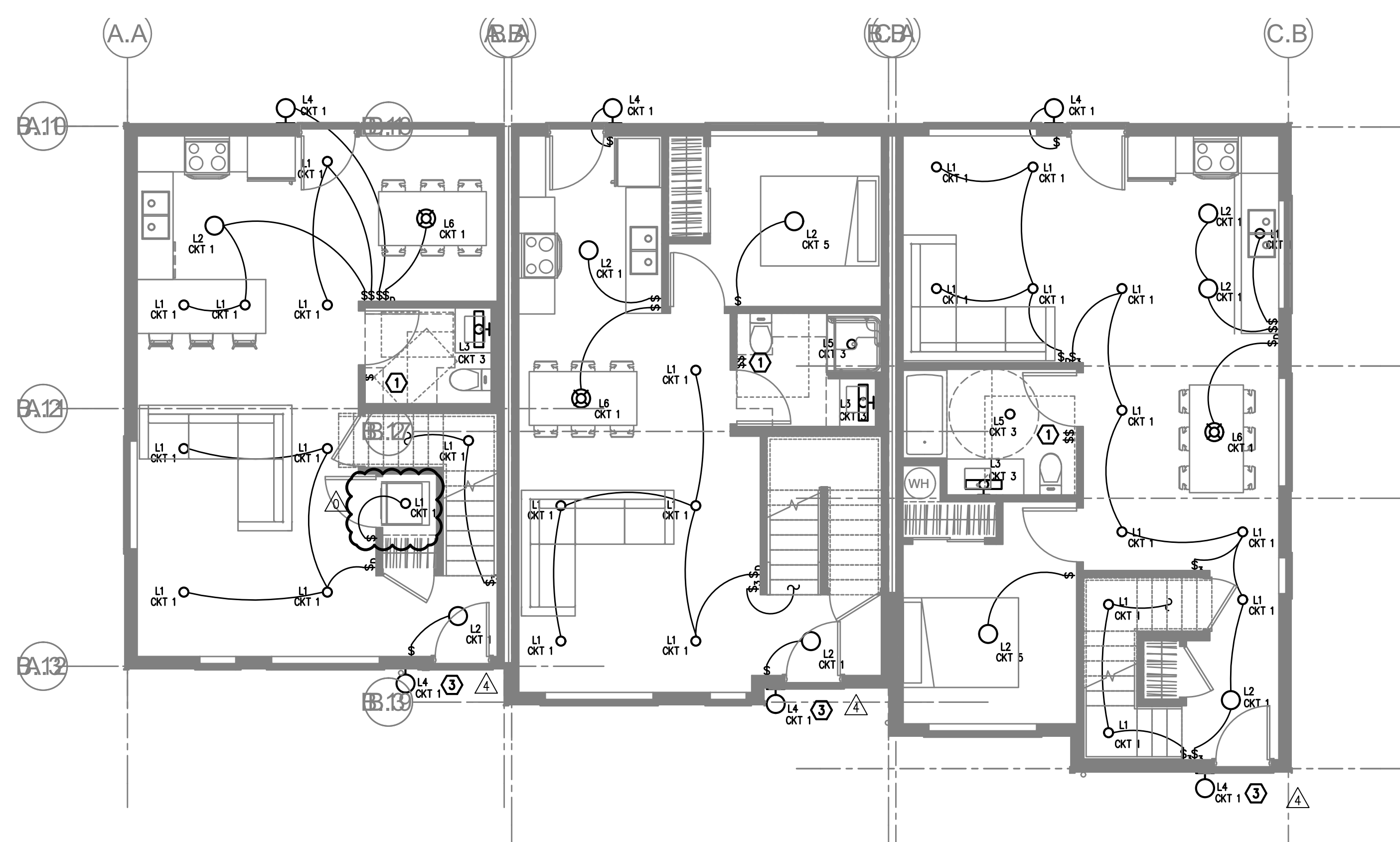
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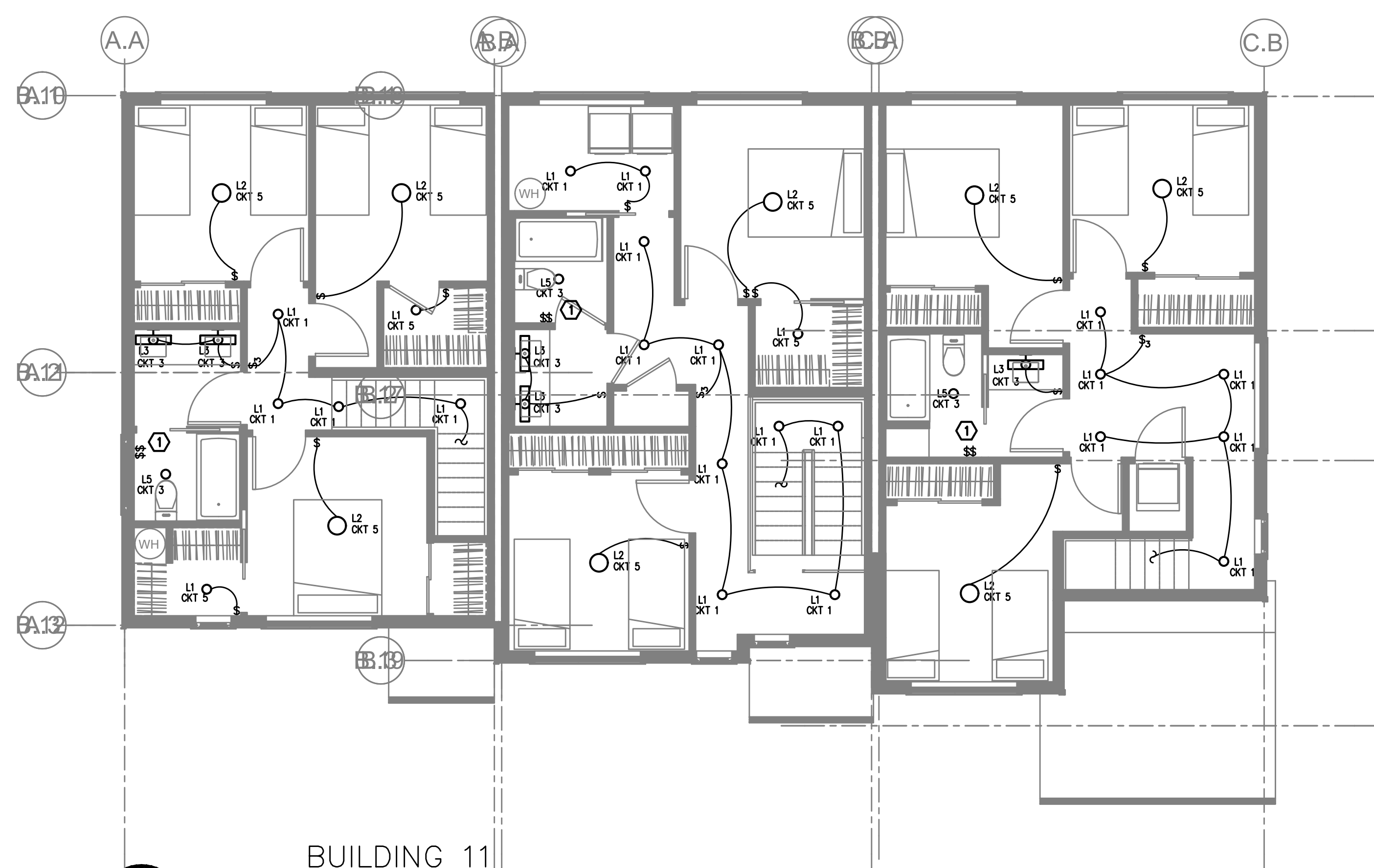
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BUILDING 11
1 GROUND FLOOR – LIGHTING PLAN
 SCALE: 3/16" = 1'-0"



BUILDING 11
2 SECOND FLOOR – LIGHTING PLAN
 SCALE: 3/16" = 1'-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.
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KEY PLAN



REVISIONS

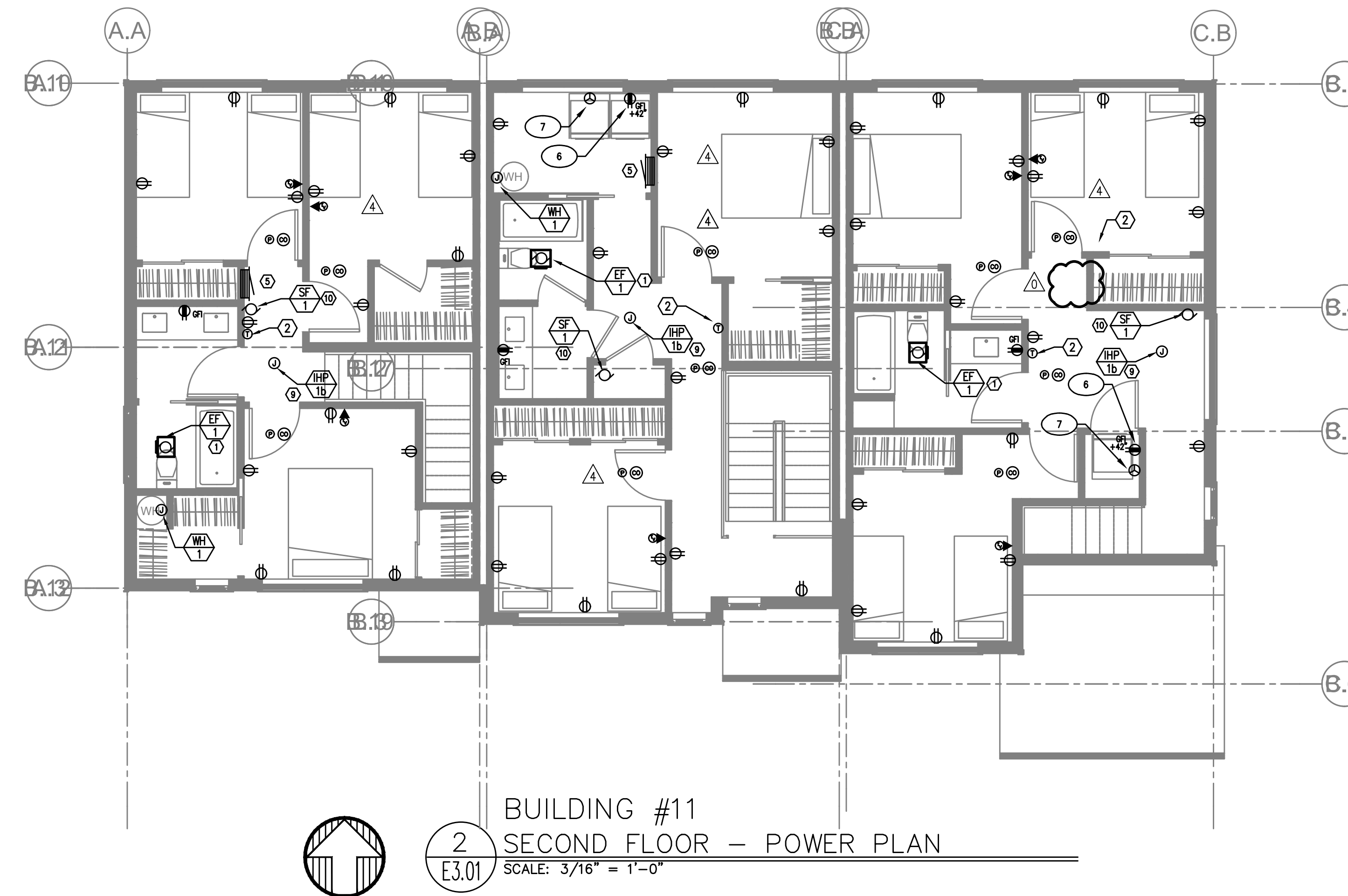
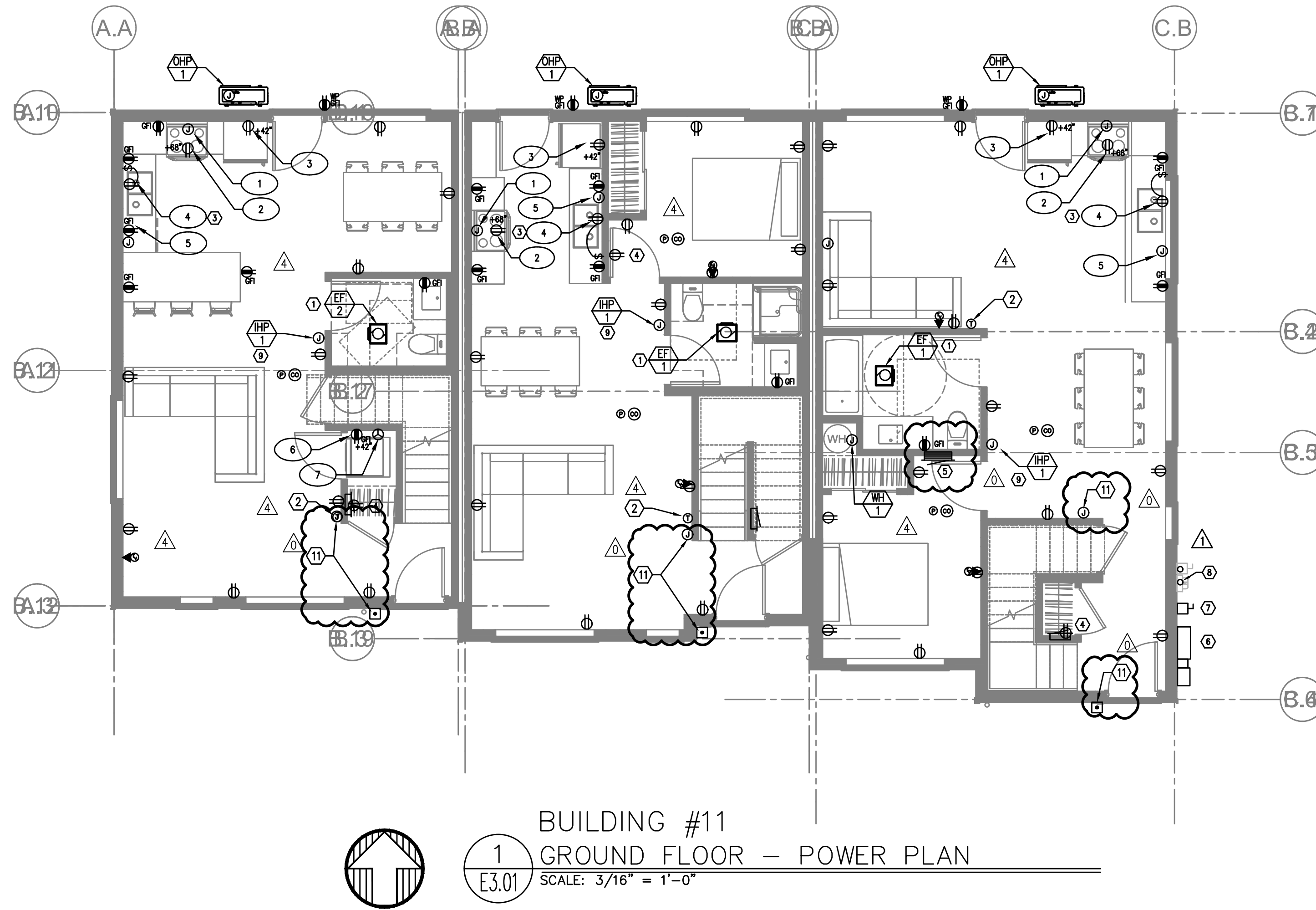
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APPLIANCE SCHEDULE

- 1. RANGE: CKT LC-10,12
- 2. TOASTY MICROWAVE: CKT LC-8
- 3. REFRIGERATOR: CKT LC-6
- 4. DISPOSAL: CKT LC-14
- 5. DISH WASHER: CKT LC-16
- 6. LAUNDRY/WASHER: CKT LC-15
- 7. DRYER: CKT LC-17,19

KEY PLAN



ARCHITECTURE, LLC

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MFA Consulting Engineers
 2007 S.E. Ash St.
 Portland, OR 97214
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 CONTACT: DENISE TAYLOR

PRELIMINARY
 NOT FOR
 CONSTRUCTION

07.06.2020



FOSTER TOWNHOMES
 13415 SE FOSTER ROAD / PORTLAND / OR

HABITAT FOR HUMANITY

REVISIONS

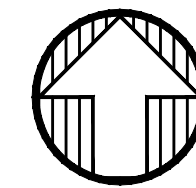
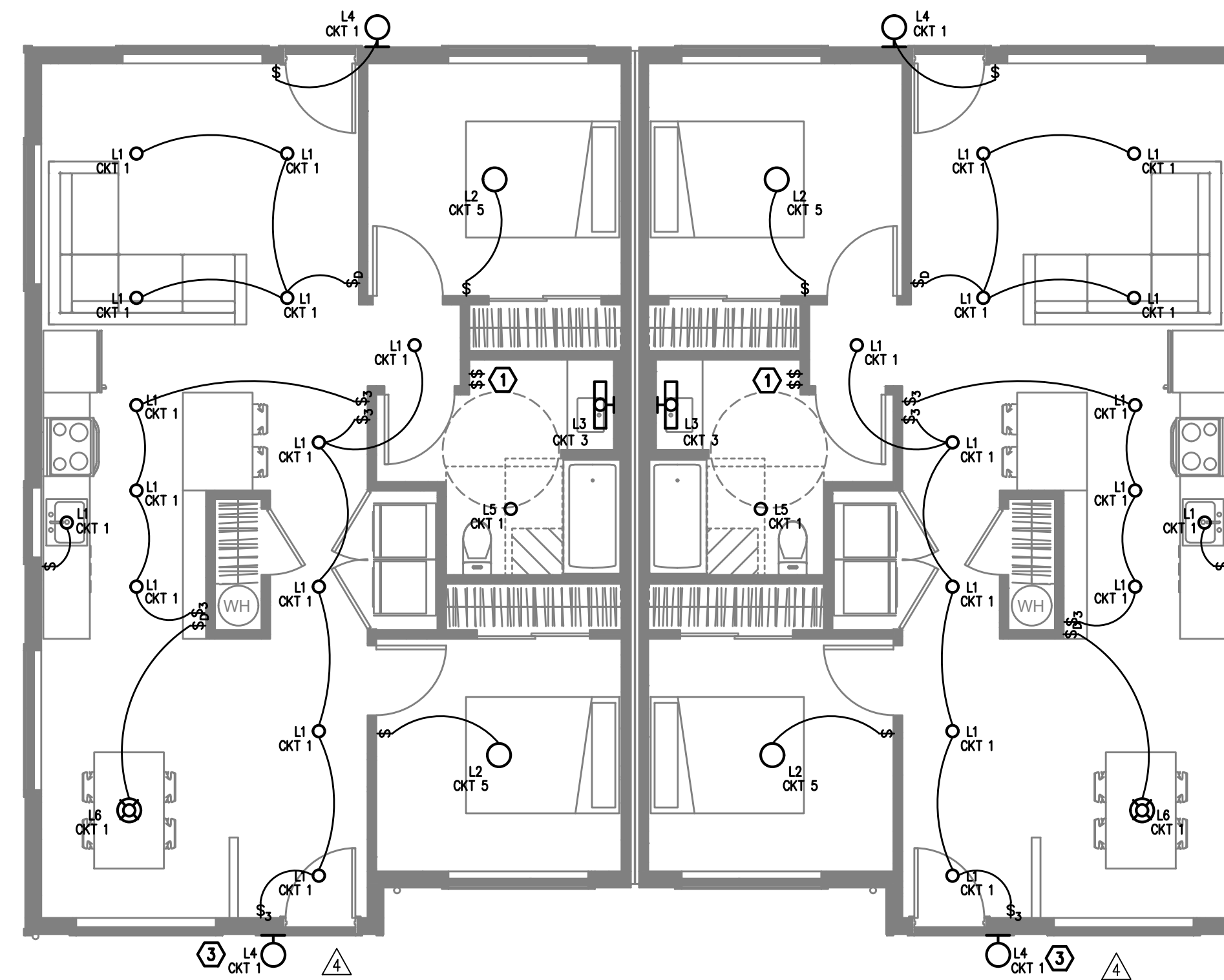
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BUILDING #11
POWER PLANS

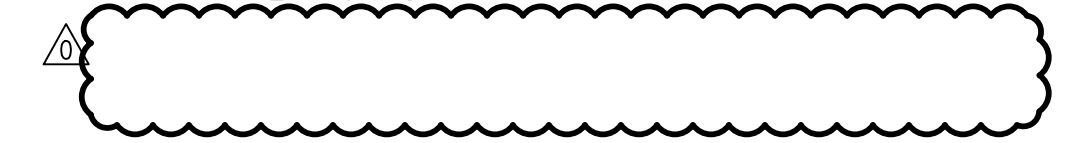
E11-3.01



BUILDING 12
1 GROUND FLOOR – LIGHTING PLAN
 SCALE: 3/16" = 1'-0"

GENERAL NOTES:

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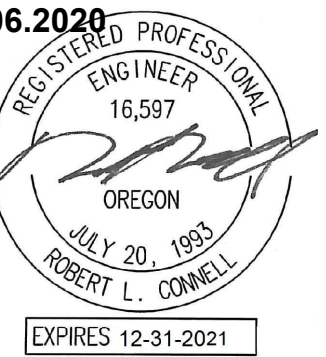
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- 2. NOT USED.
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KEY PLAN



07.06.2020



REVISIONS

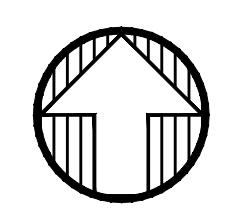
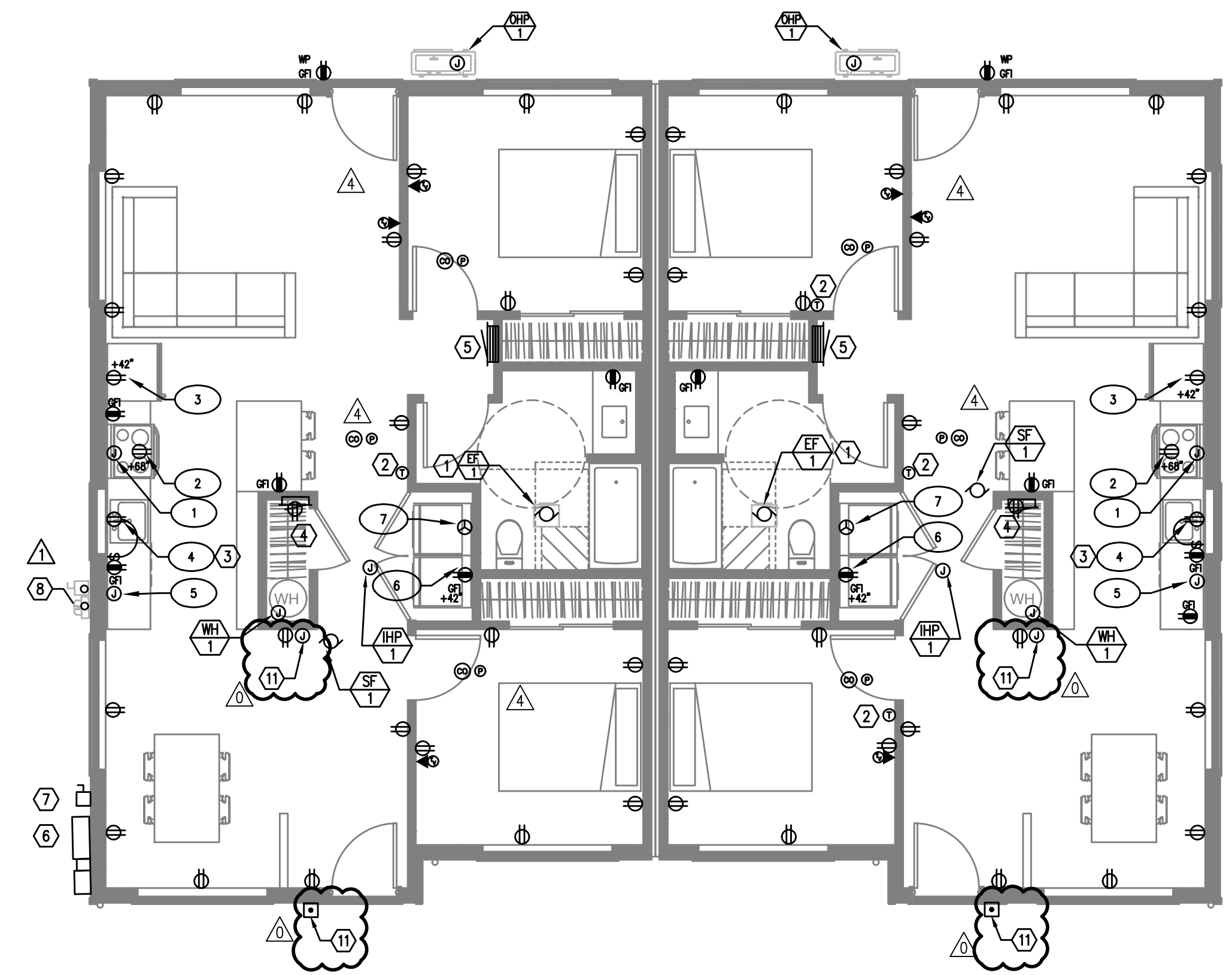
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BUILDING #12
1 GROUND FLOOR - POWER PLAN
 E3.01 SCALE: 3/16" = 1'-0"

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.
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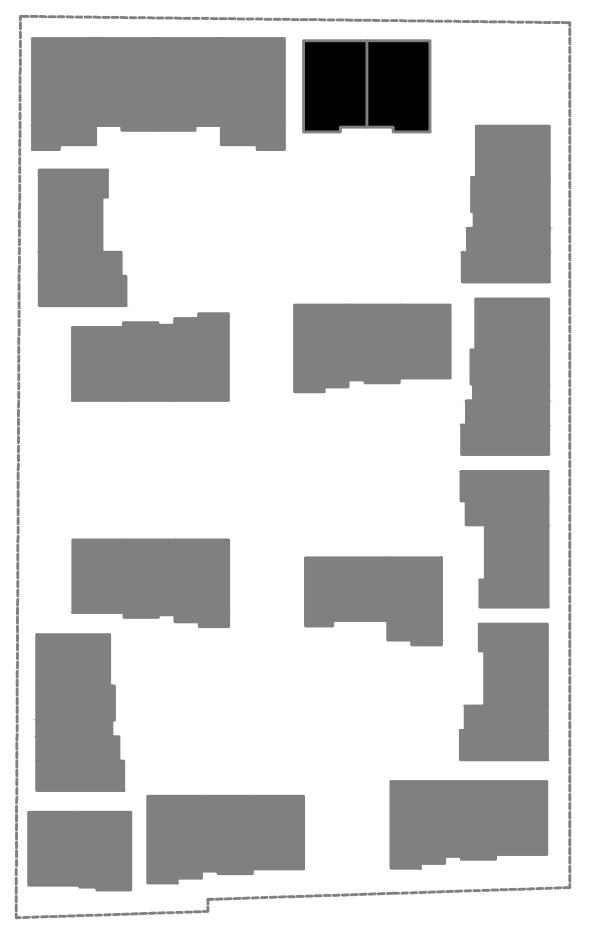
KEYED NOTES:

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2. PROVIDE POWER CONNECTION FOR THERMOSTAT. COORDINATE INSTALLATION WITH MECHANICAL EQUIPMENT INSTALLER.
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10. TIE CONTINUOUS OPERATION SUPPLY FAN INTO HALLWAY RECEPTACLE CIRCUIT.
11. DOORBELL PER OWNER'S REQUIREMENTS. CONSULT ARCHITECT FOR EXACT LOCATION PRIOR TO ROUGH IN. CONSULT MANUFACTURER'S INSTALLATION MANUAL FOR POWER REQUIREMENTS AND TIE INTO THE NEAREST RECEPTACLE CIRCUIT.

APPLIANCE SCHEDULE

1. RANGE: CKT LC-10,12
2. HOOD/MICROWAVE: CKT LC-8
3. REFRIGERATOR: CKT LC-6
4. DISPOSAL: CKT LC-14
5. DISH WASHER: CKT LC-16
6. LAUNDRY/WASHER: CKT LC-15
7. DRYER: CKT LC-17,19

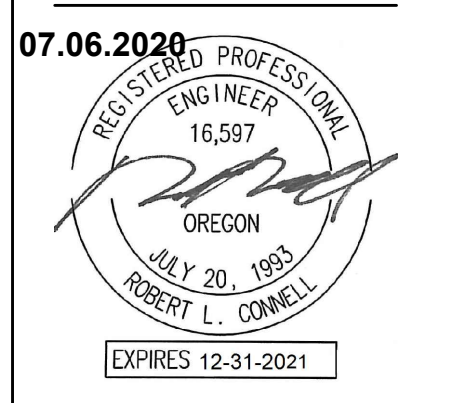
KEY PLAN



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 CONTACT: DENISE TAYLOR

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 HABITAT FOR HUMANITY

REVISIONS

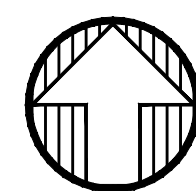
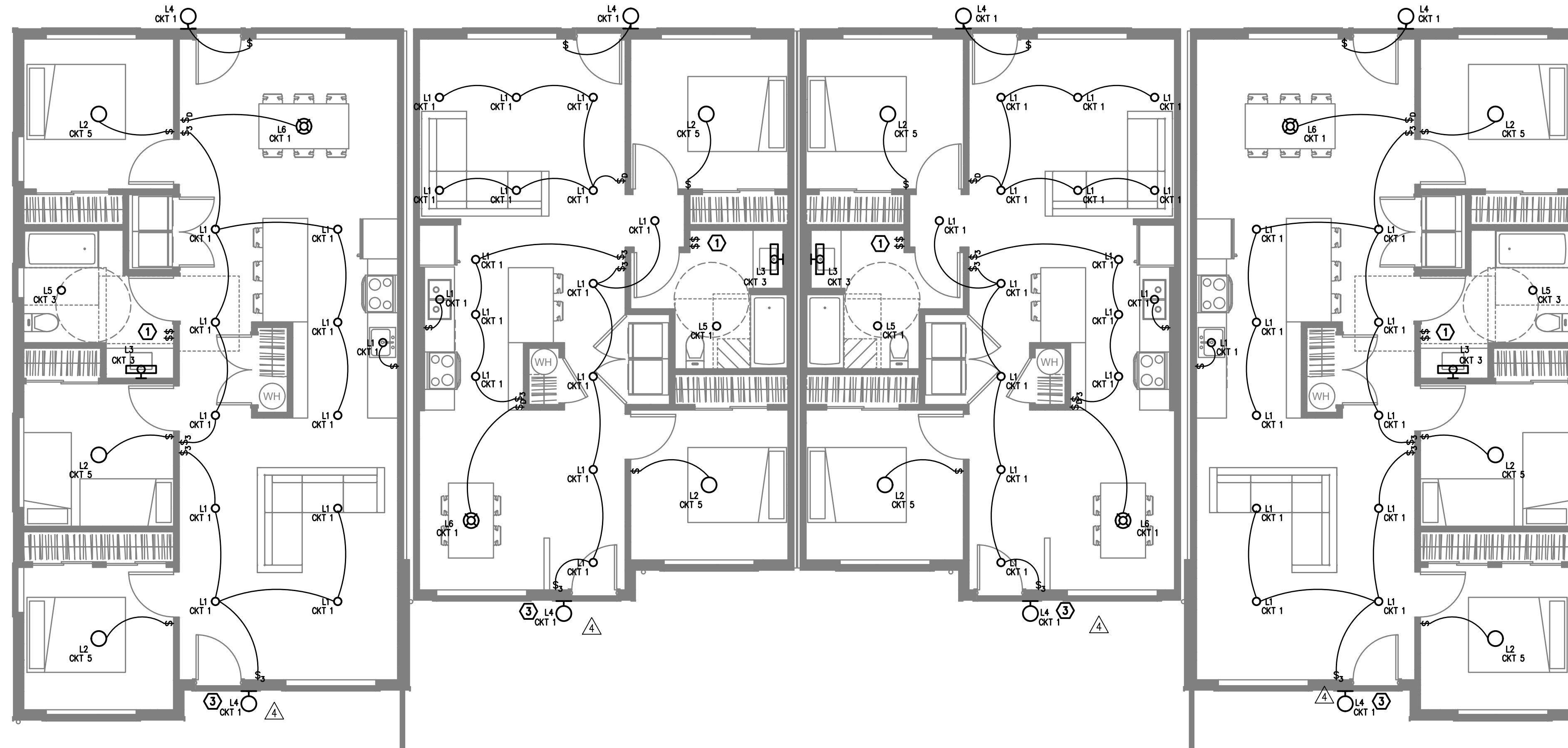
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10/09/2020	REVIEW COMMENTS
11/25/2020	REVIEW COMMENTS
12/07/2020	ELECTRICAL REVISIONS
04/07/2021	REVIEW COMMENTS

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BUILDING #12
POWER PLANS
E12-3.01

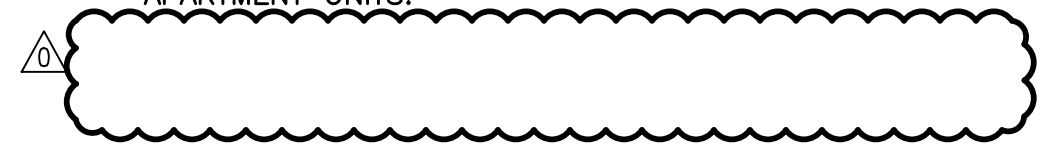
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BUILDING 13
 1
 E.2.01 GROUND FLOOR – LIGHTING PLAN
 SCALE: 3/16" = 1'-0"

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. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- C. REFER TO SHEET E1.3 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.
- D. ALL LIGHT SWITCHES SHALL BE ROCKER STYLE, SUCH AS LEVITON DECORA, OR APPROVED EQUAL.
- E. REFER TO E3 SERIES SHEETS FOR TYPICAL UNIT POWER PLANS.
- F. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE MECHANICAL PLAN SHEETS AND COORDINATE WITH THE MECHANICAL INSTALLER TO AVOID CONFLICTS BETWEEN HVAC EQUIPMENT AND LIGHT FIXTURES WITHIN THE APARTMENT UNITS.



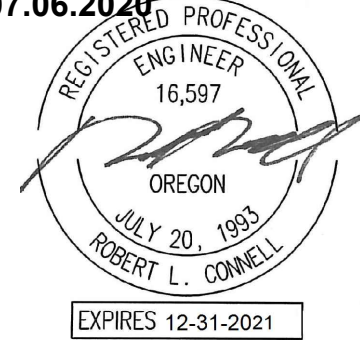
KEYED NOTES:

- 1. REFER TO E1.21 FOR TYPICAL BATHROOM SWITCHING DIAGRAM.
- 2. NOT USED.
- 3. TOWNHOUSE UNIT ENTRY LIGHTS SHALL BE PROVIDED WITH ROOF MOUNTED PHOTOCELLS FOR DUSK-TILL-DAWN OPERATION. CIRCUIT LIGHT AS INDICATED ON THE PLANS. FIELD ADJUST PHOTOCELL.

KEY PLAN



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- △ 04/07/2021 REVIEW COMMENTS

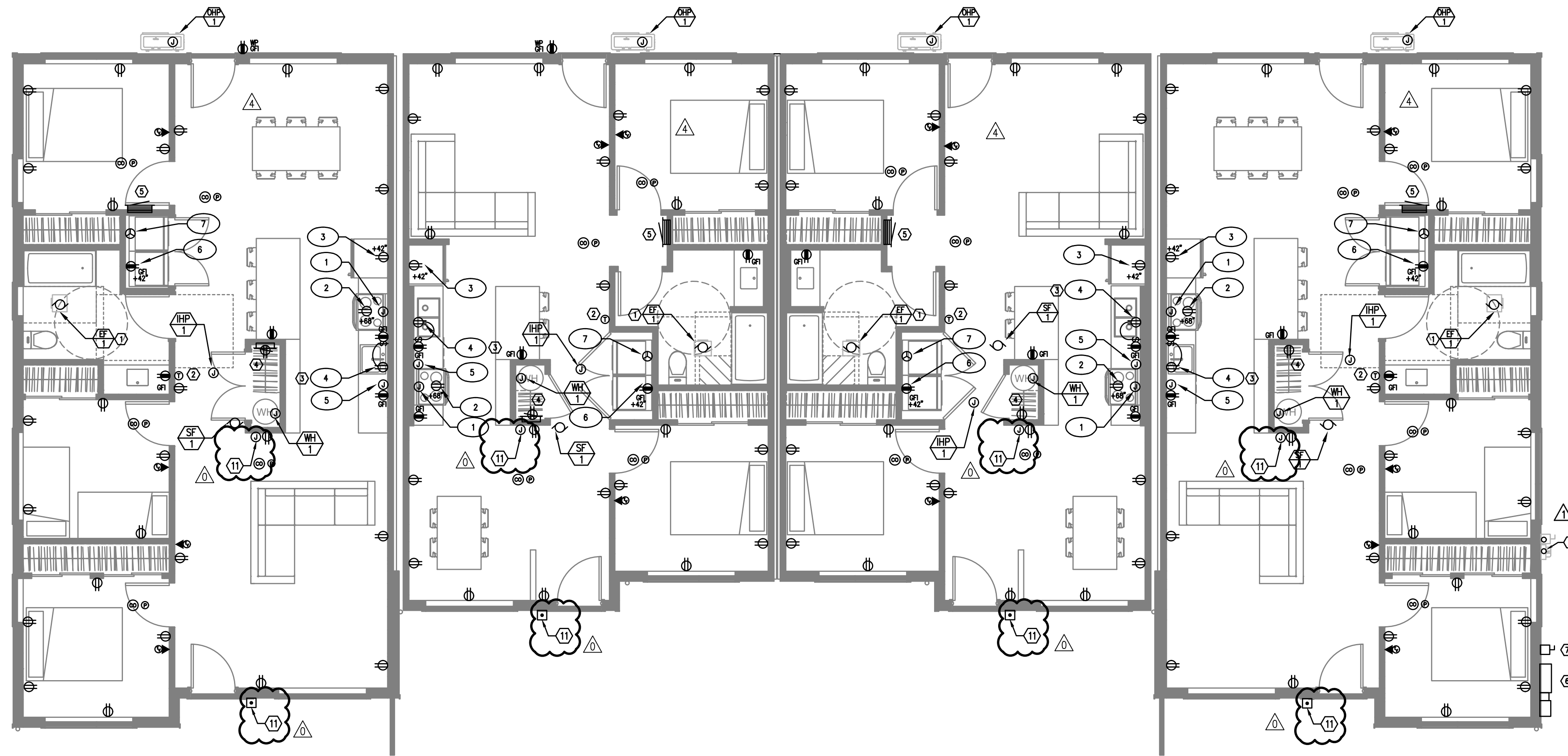
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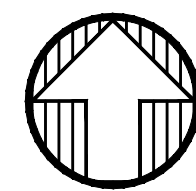
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**BUILDING 13
 LIGHTING PLANS**

E13-2.01

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BUILDING #13
1 GROUND FLOOR – POWER PLAN
 SCALE: 3/16" = 1'-0"

GENERAL POWER NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES.
- C. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR, AS REQUIRED. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- D. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS AS REQUIRED. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.
- E. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- F. COORDINATE WITH DIVISION 23 FOR EXACT LOCATION AND POWER REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH IN. REFER TO SHEET E1.4 FOR MECHANICAL EQUIPMENT SCHEDULE.
- G. SERVICE ENTRANCE AND METERING EQUIPMENT SHOWN TO APPROXIMATE SCALE, BASED ON SIEMENS PRODUCTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ENDURING THAT INSTALLED EQUIPMENT FITS THE SPACE PROVIDED AND THAT ALL REQUIRED WORKING CLEARANCES ARE PROVIDED.
- H. FIRE ALARM & DETECTION SYSTEMS ARE TO BE DESIGNED AND INSTALLED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM SYSTEM DESIGNER FOR EXACT LOCATIONS AND PROVIDE ROUGH IN ONLY.
- I. ANY LOW VOLTAGE TELECOM DEVICES SHOWN ARE STRICTLY DIAGRAMMATIC AND SHOWN FOR REFERENCE ONLY. LOW VOLTAGE SYSTEMS ARE TO BE DESIGNED AND INSTALLED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE SERVICE PROVIDER FOR EXACT LOCATIONS AND PROVIDE ROUGH IN ONLY.

KEYED NOTES:

1. BATHROOM EXHAUST FAN CONTROLLED VIA LIGHT SWITCHES. REFER TO TYPICAL UNIT LIGHTING PLANS ON E2 SERIES SHEETS.
2. PROVIDE POWER CONNECTION FOR THERMOSTAT. COORDINATE INSTALLATION WITH MECHANICAL EQUIPMENT INSTALLER.
3. PROVIDE ONE 15A, 120V DUPLEX RECEPTACLE, MOUNTED UNDER KITCHEN SINK FOR FUTURE GARBAGE DISPOSAL BY OWNER. CIRCUIT AS INDICATED.
4. 'SMART PANEL' PER UTILITY REQUIREMENTS, NON-METALLIC, 42"H x 14"W, WITH POWER OUTLET.
5. RESIDENTIAL LOAD CENTER. REFER TO SHEET E1.14 FOR TYPICAL PANEL CIRCUIT DIRECTORIES.
6. TYPICAL LOCATION FOR BUILDING UTILITY METERS. REFER TO SHEET E1.01 FOR ADDITIONAL INFORMATION. METERING EQUIPMENT SHALL BE INSTALLED IN UTILITY PROVIDER APPROVED LOCATION. REFER TO THE UTILITY PROVIDER'S ELECTRICAL SERVICE REQUIREMENTS FOR ADDITIONAL INFORMATION.
7. NEMA 3R HOUSE BRANCH PANEL. PANELS LOCATED AT BUILDINGS #1 & #15 ONLY. REFER TO ONE LINE DIAGRAM ON SHEET E1.11. PROVIDE ONE NEMA 3R 30A, 120V, 1P DISCONNECT SWITCH AT ALL OTHER BUILDINGS FOR BUILDING LIGHTS AND POWER. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
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KEY PLAN



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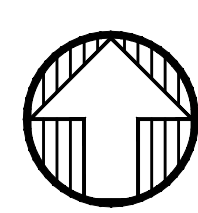
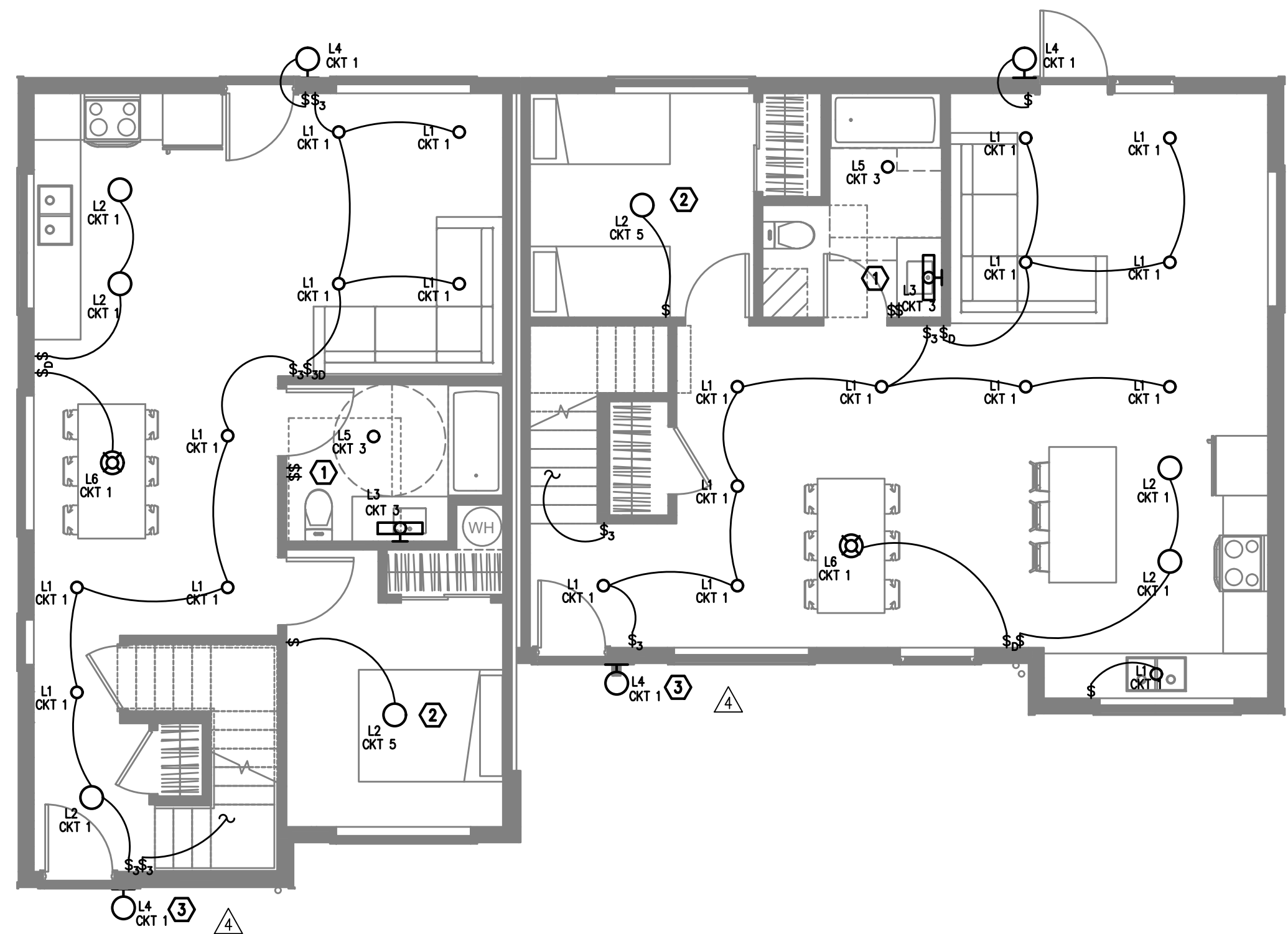
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**BUILDING #13
 POWER PLANS**

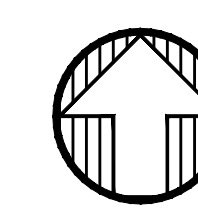
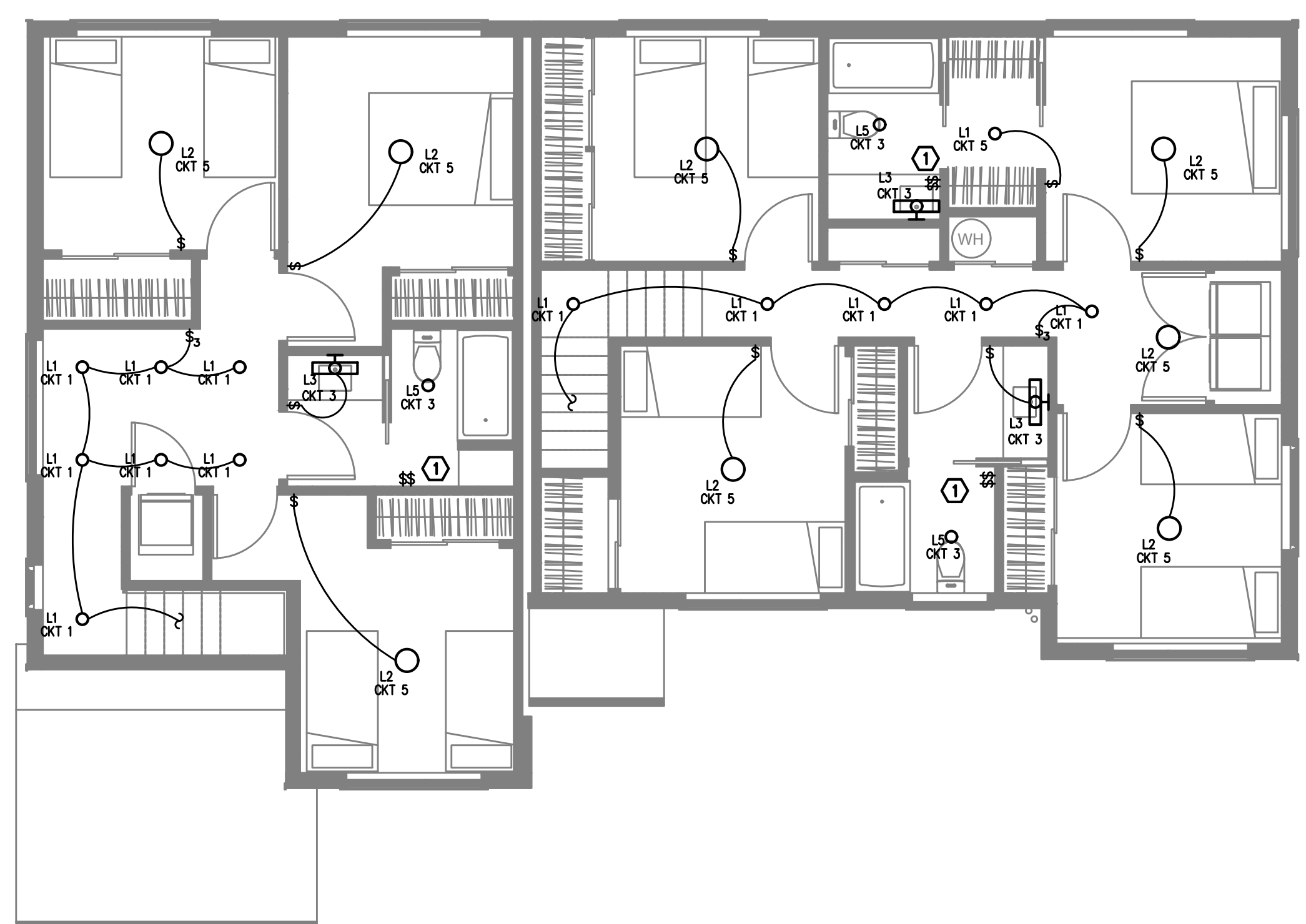
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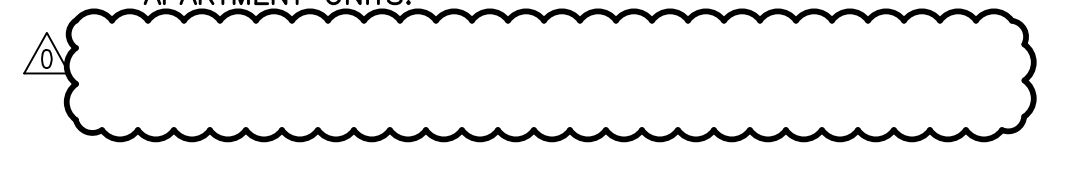
BUILDING 14
1 GROUND FLOOR – LIGHTING PLAN
 E2.01 SCALE: 3/16" = 1'-0"



BUILDING 14
2 SECOND FLOOR – LIGHTING PLAN
 E2.01 SCALE: 3/16" = 1'-0"

GENERAL NOTES:

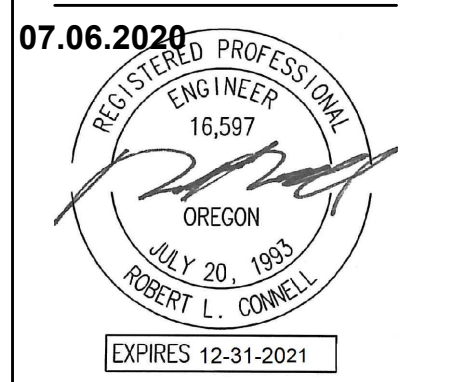
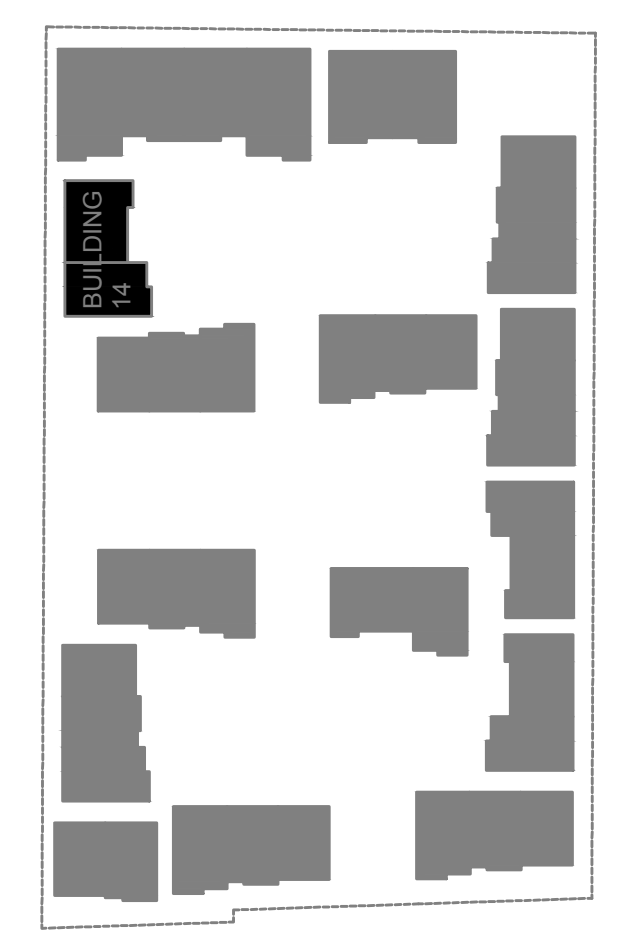
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KEY PLAN



REVISIONS

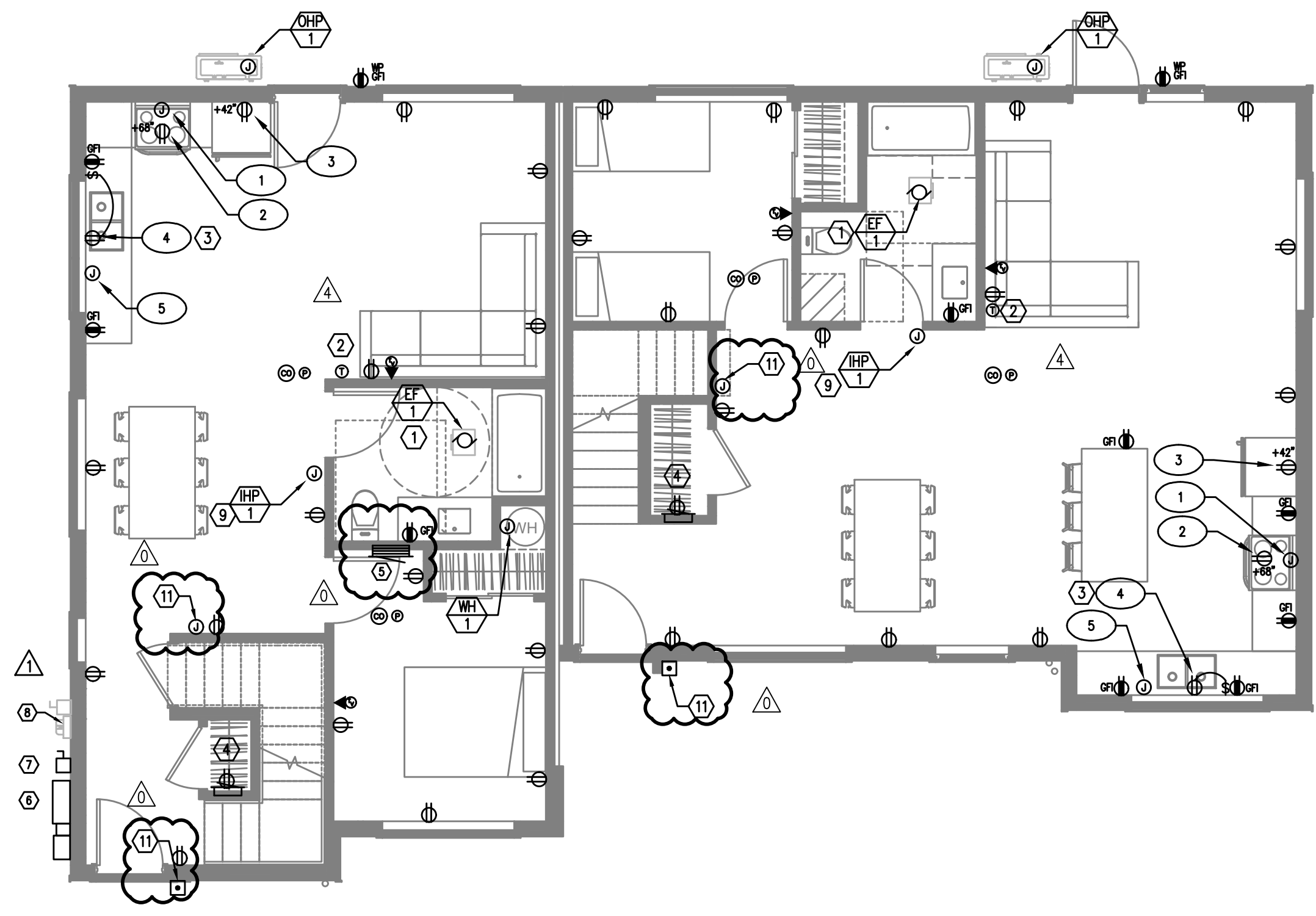
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PERMIT DOCUMENTS

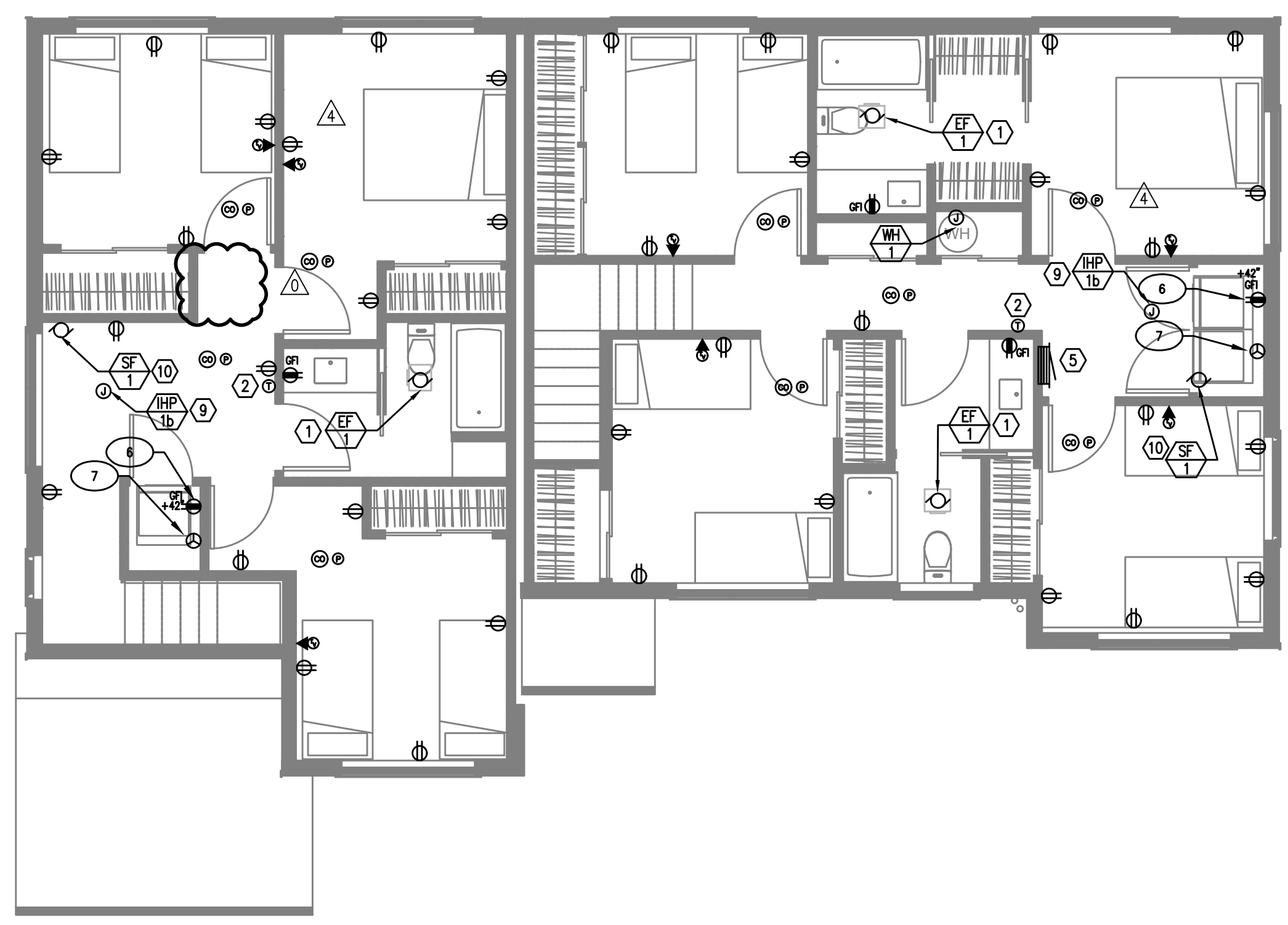
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1
E3.01
BUILDING TYPE 14
GROUND FLOOR – POWER PLAN
 SCALE: 3/16" = 1'-0"



2
E3.01
BUILDING TYPE 14
SECOND FLOOR – POWER PLAN
 SCALE: 3/16" = 1'-0"

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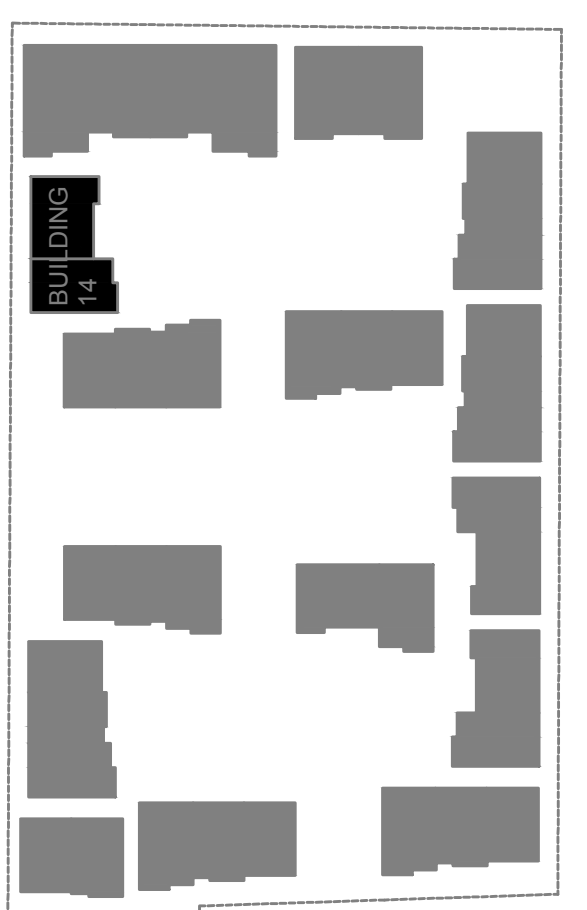
KEYED NOTES:

- 1. BATHROOM EXHAUST FAN CONTROLLED VIA LIGHT SWITCHES. REFER TO TYPICAL UNIT LIGHTING PLANS ON E2 SERIES SHEETS.
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- 4. 'SMART PANEL' PER UTILITY REQUIREMENTS, NON-METALLIC, 42"H x 14"W, WITH POWER OUTLET.
- 5. RESIDENTIAL LOAD CENTER. REFER TO SHEET E1.14 FOR TYPICAL PANEL CIRCUIT DIRECTORIES.
- 6. TYPICAL LOCATION FOR BUILDING UTILITY METERS. REFER TO SHEET E1.01 FOR ADDITIONAL INFORMATION. METERING EQUIPMENT SHALL BE INSTALLED IN UTILITY PROVIDER APPROVED LOCATION. REFER TO THE UTILITY PROVIDER'S ELECTRICAL SERVICE REQUIREMENTS FOR ADDITIONAL INFORMATION.
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- 7. DRYER: CKT LC-17,19

KEY PLAN



REVISIONS

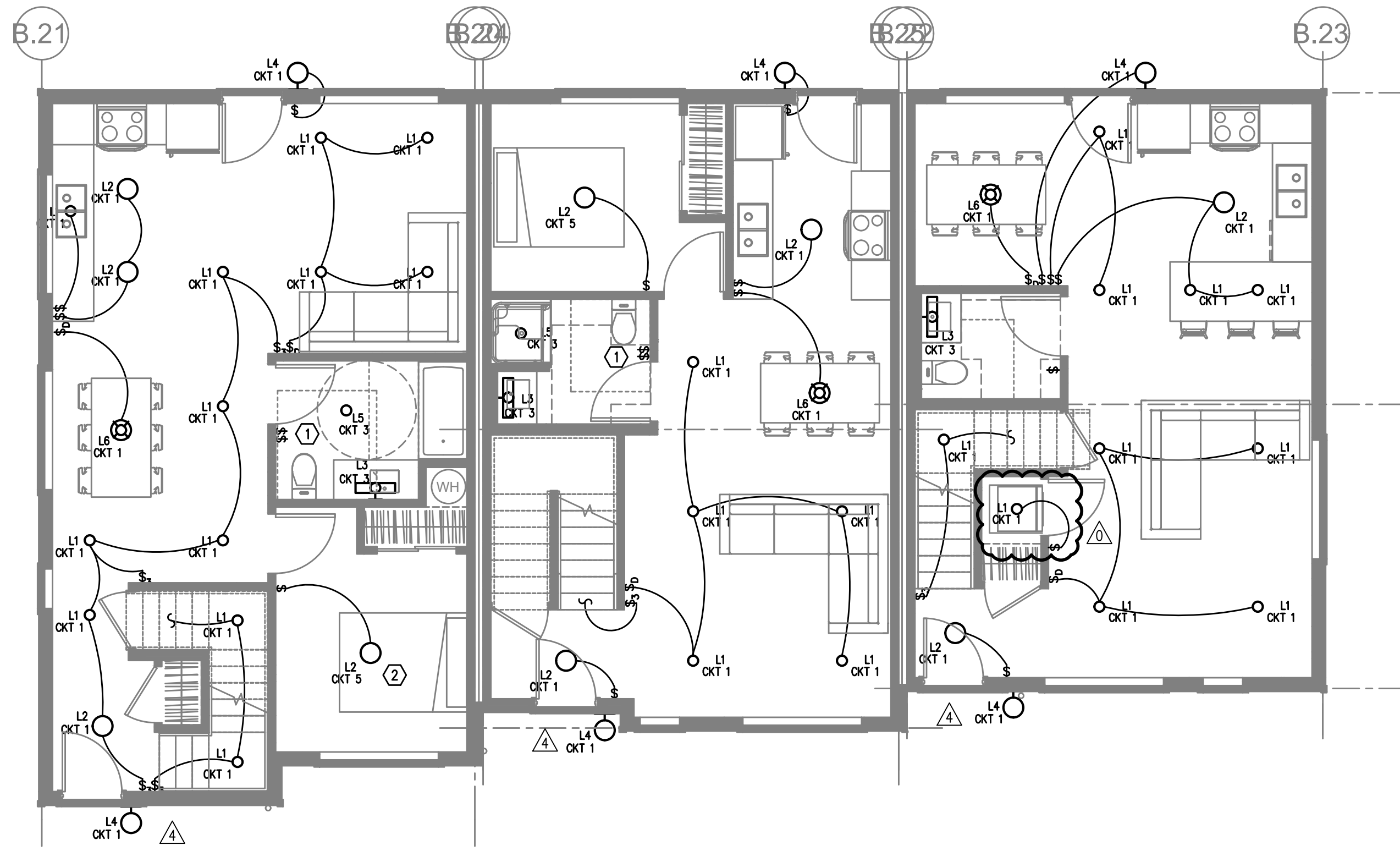
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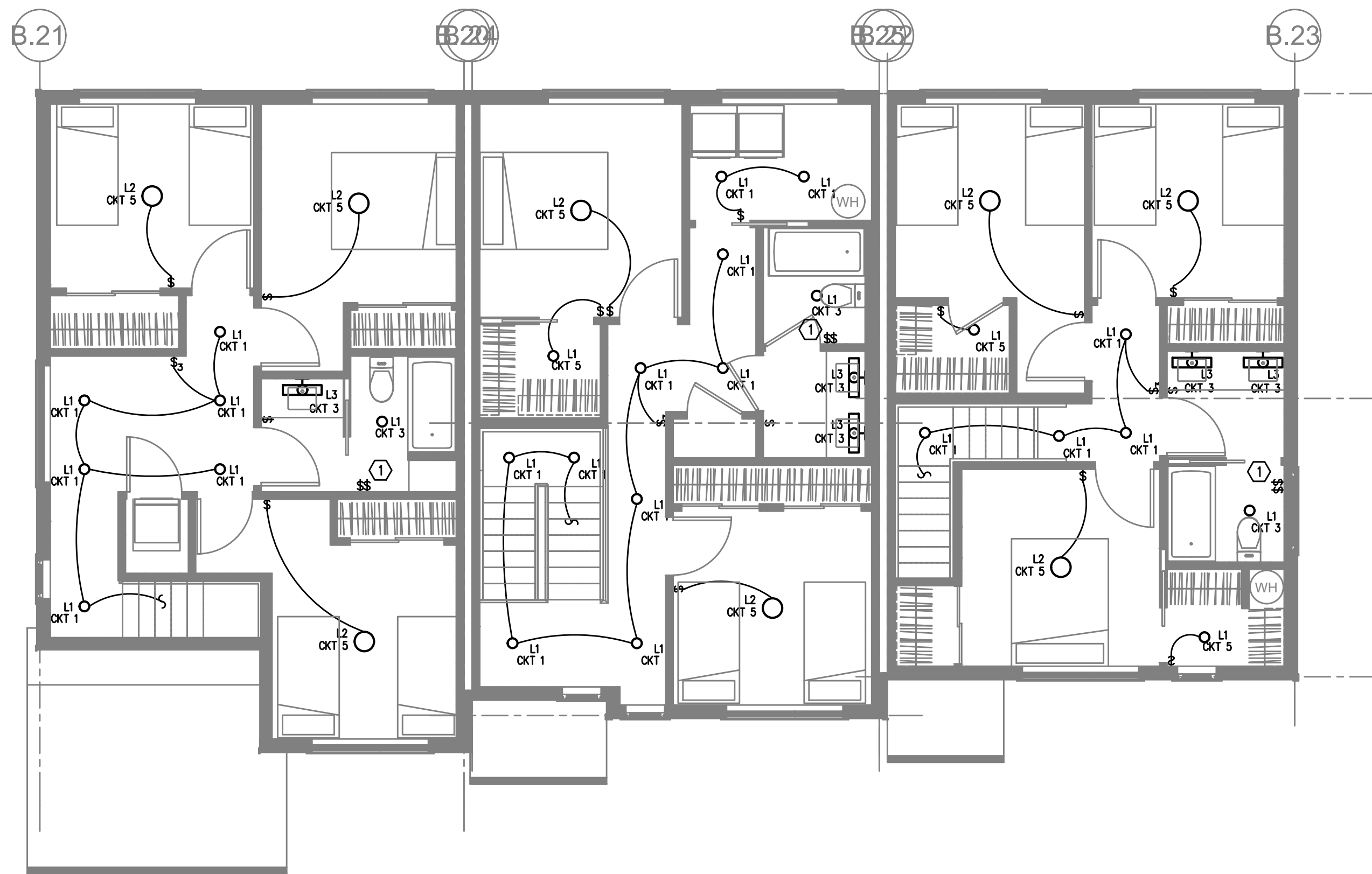
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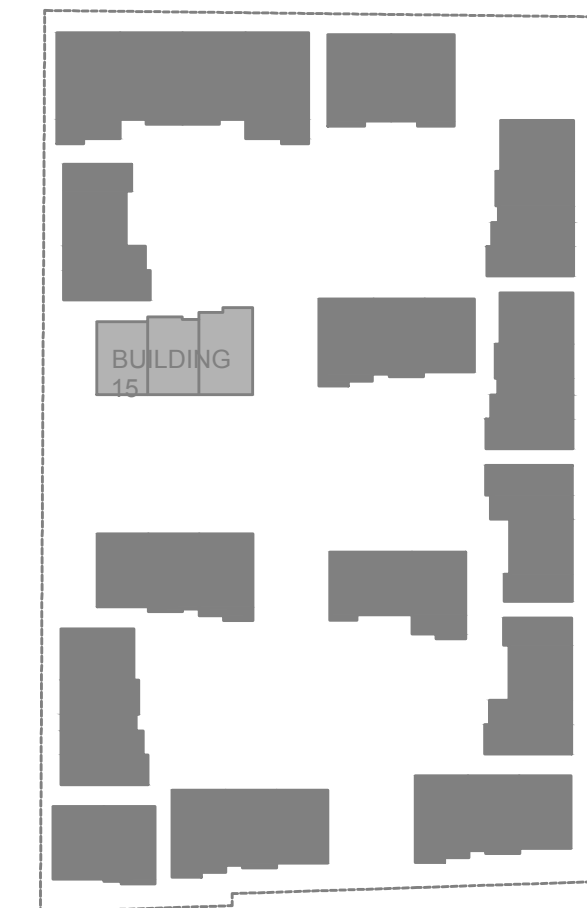


BUILDING 15
1 GROUND FLOOR – LIGHTING PLAN
 SCALE: 3/16" = 1'-0"



BUILDING 15
2 SECOND FLOOR – LIGHTING PLAN
 SCALE: 3/16" = 1'-0"

KEY PLAN



GENERAL NOTES:

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KEYED NOTES:

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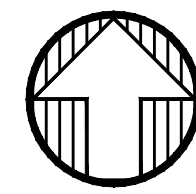
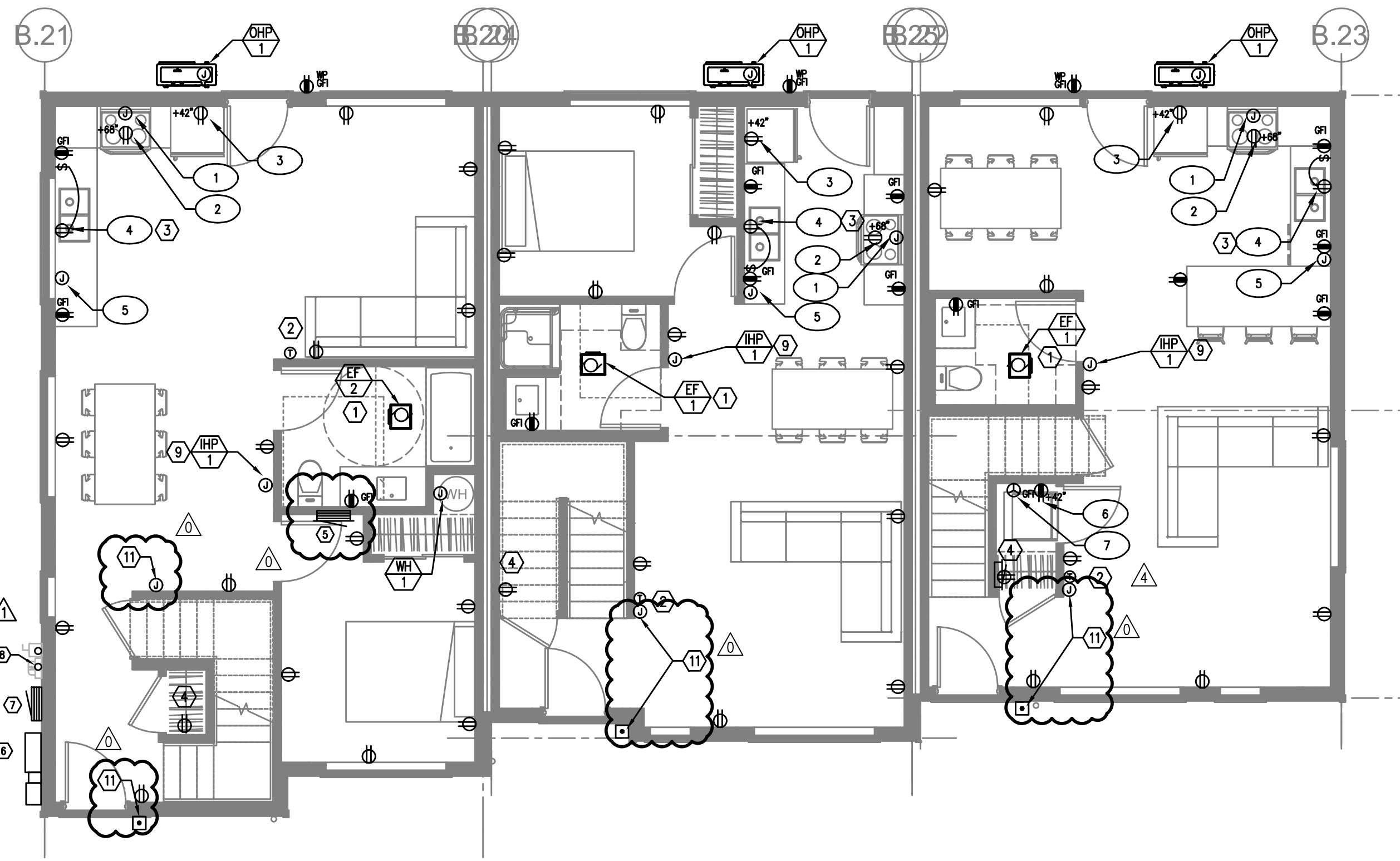
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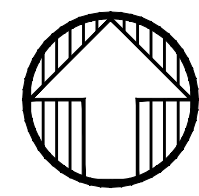
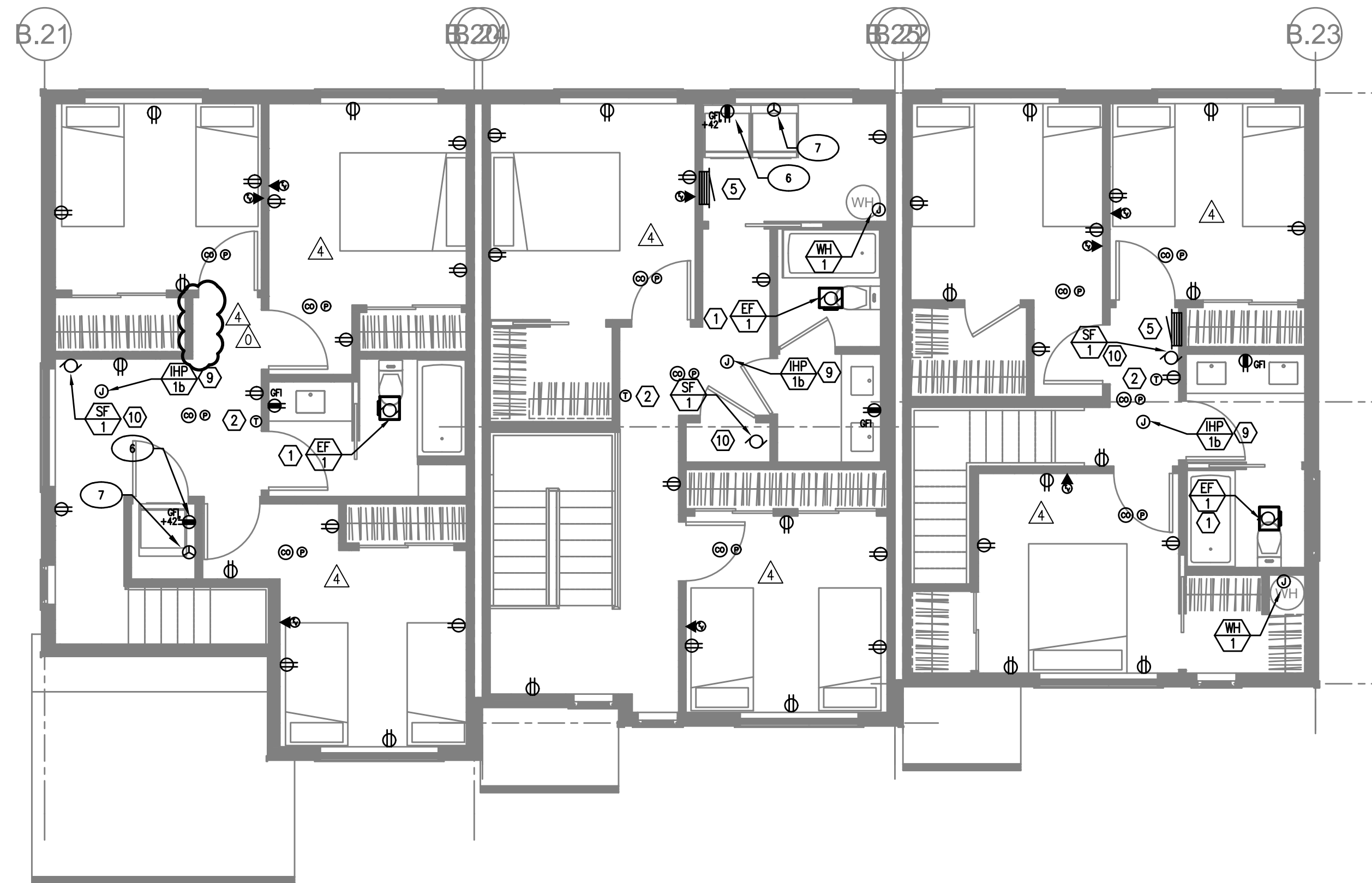
BUILDING 15
LIGHTING PLANS
E15-2.01

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1
E3.01 BUILDING #15
GROUND FLOOR – POWER PLAN
SCALE: 3/16" = 1'-0"



2
E3.01 BUILDING #15
SECOND FLOOR – POWER PLAN
SCALE: 3/16" = 1'-0"

GENERAL POWER NOTES:

- A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.
- B. WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES.
- C. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR, AS REQUIRED. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.
- D. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS AS REQUIRED. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.
- E. THE ELECTRICAL CONTRACTOR SHALL REFER TO THE ARCHITECTURAL DRAWINGS FOR ALL MOUNTING HEIGHTS AND FINISHES OF DEVICES AND FIXTURES.
- F. COORDINATE WITH DIVISION 23 FOR EXACT LOCATION AND POWER REQUIREMENTS OF ALL MECHANICAL EQUIPMENT PRIOR TO ROUGH IN. REFER TO SHEET E1.4 FOR MECHANICAL EQUIPMENT SCHEDULE.
- G. SERVICE ENTRANCE AND METERING EQUIPMENT SHOWN TO APPROXIMATE SCALE, BASED ON SIEMENS PRODUCTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ENDURING THAT INSTALLED EQUIPMENT FITS THE SPACE PROVIDED AND THAT ALL REQUIRED WORKING CLEARANCES ARE PROVIDED.
- H. FIRE ALARM & DETECTION SYSTEMS ARE TO BE DESIGNED AND INSTALLED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE FIRE ALARM SYSTEM DESIGNER FOR EXACT LOCATIONS AND PROVIDE ROUGH IN ONLY.
- I. ANY LOW VOLTAGE TELECOM DEVICES SHOWN ARE STRICTLY DIAGRAMMATIC AND SHOWN FOR REFERENCE ONLY. LOW VOLTAGE SYSTEMS ARE TO BE DESIGNED AND INSTALLED BY OTHERS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE SERVICE PROVIDER FOR EXACT LOCATIONS AND PROVIDE ROUGH IN ONLY.

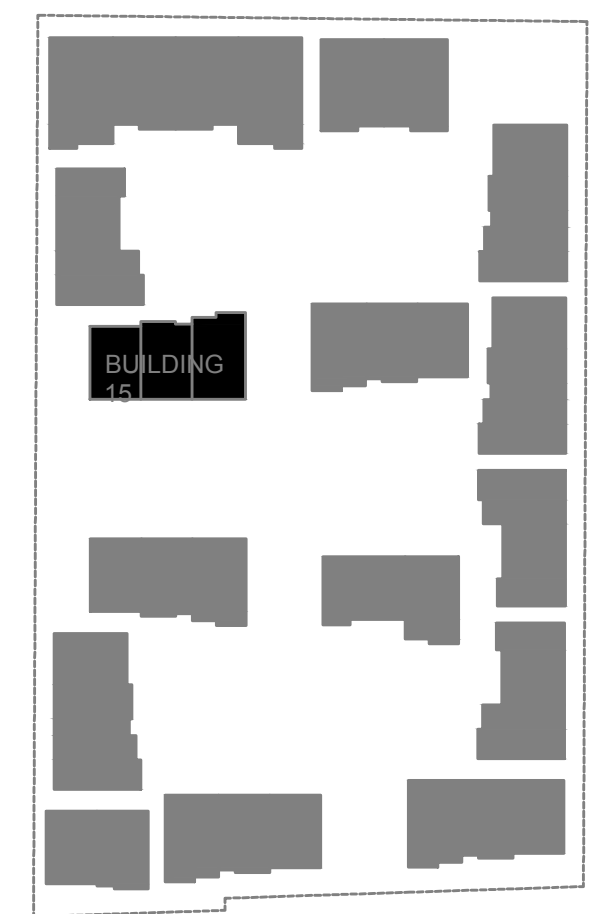
KEYED NOTES:

1. BATHROOM EXHAUST FAN CONTROLLED VIA LIGHT SWITCHES. REFER TO TYPICAL UNIT LIGHTING PLANS ON E2 SERIES SHEETS.
2. PROVIDE POWER CONNECTION FOR THERMOSTAT. COORDINATE INSTALLATION WITH MECHANICAL EQUIPMENT INSTALLER.
3. PROVIDE ONE 15A, 120V DUPLEX RECEPTACLE, MOUNTED UNDER KITCHEN SINK FOR FUTURE GARBAGE DISPOSAL BY OWNER. CIRCUIT AS INDICATED.
4. 'SMART PANEL' PER UTILITY REQUIREMENTS, NON-METALLIC, 42"H x 14"W, WITH POWER OUTLET.
5. RESIDENTIAL LOAD CENTER. REFER TO SHEET E1.14 FOR TYPICAL PANEL CIRCUIT DIRECTORIES.
6. TYPICAL LOCATION FOR BUILDING UTILITY METERS. REFER TO SHEET E1.01 FOR ADDITIONAL INFORMATION. METERING EQUIPMENT SHALL BE INSTALLED IN UTILITY PROVIDER APPROVED LOCATION. REFER TO THE UTILITY PROVIDER'S ELECTRICAL SERVICE REQUIREMENTS FOR ADDITIONAL INFORMATION.
7. NEMA 3R HOUSE BRANCH PANEL. PANELS LOCATED AT BUILDINGS #1 & #15 ONLY. REFER TO ONE-LINE DIAGRAM ON SHEET E1.11. PROVIDE ONE NEMA 3R 30A, 120V, 1P DISCONNECT SWITCH AT ALL OTHER BUILDINGS FOR BUILDING LIGHTS AND POWER. REFER TO ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
8. FUTURE PV SOLAR SYSTEM BY OTHERS. PROVIDE TWO 2" CONDUITS W/ PULL STRINGS, ROUTED FROM THE EQUIPMENT ROOM TO THE ROOF AND CAP BOTH ENDS.
9. INDOOR PORTION OF THE HVAC SPLIT SYSTEM IS INTERCONNECTED WITH THE CORRESPONDING OUTDOOR UNIT. COORDINATE EXACT ELECTRICAL REQUIREMENTS AND LOCATIONS WITH THE MECHANICAL EQUIPMENT INSTALLER.
10. TIE CONTINUOUS OPERATION SUPPLY FAN INTO HALLWAY RECEPTACLE CIRCUIT.
11. DOORBELL PER OWNER'S REQUIREMENTS. CONSULT ARCHITECT FOR EXACT LOCATION PRIOR TO ROUGH IN. CONSULT MANUFACTURER'S INSTALLATION MANUAL FOR POWER REQUIREMENTS AND TIE INTO THE NEAREST RECEPTACLE CIRCUIT.

APPLIANCE SCHEDULE

1. RANGE: CKT LC-10,12
2. TOASTY MICROWAVE: CKT LC-8
3. REFRIGERATOR: CKT LC-6
4. DISPOSAL: CKT LC-14
5. DISH WASHER: CKT LC-16
6. LAUNDRY/WASHER: CKT LC-15
7. DRYER: CKT LC-17,19

KEY PLAN



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PRELIMINARY
NOT FOR
CONSTRUCTION

07.06.2020



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HABITAT FOR HUMANITY

REVISIONS

- 09/18/2020 REVIEW COMMENTS
- 10/09/2020 REVIEW COMMENTS
- 11/25/2020 REVIEW COMMENTS
- 12/07/2020 ELECTRICAL REVISIONS
- 04/07/2021 REVIEW COMMENTS

PERMIT DOCUMENTS

ISSUE DATE 07/01/2020

**BUILDING #15
POWER PLANS**

E15-3.01