ELECTRICAL SYMBOL LIST

LIGHTING SYMBOLS

- LIGHT FIXTURE, RECESSED
- LIGHT FIXTURE, RECESSED – EMERGENCY
- LIGHT FIXTURE, SURFACE MOUNT
- LIGHT FIXTURE, SURFACE MOUNT – EMERGENCY
- LIGHT FIXTURE, STRIP
- LIGHT FIXTURE, STRIP – EMERGENCY
- DOWNLIGHT FIXTURE, RECESSED
- DOWNLIGHT FIXTURE, RECESSED, WALLWASH
- DOWNLIGHT FIXTURE, RECESSED – EMERGENCY
- LIGHT FIXTURE, WALL MOUNT
- LIGHT FIXTURE, CEILING MOUNT
- RECESSED LIGHT FIXTURE, WALL MOUNT
- LIGHT FIXTURE, WALL MOUNT
- LIGHT FIXTURE, WALL SCONCE
- LIGHT FIXTURE, COVE – RECESSED
- LIGHT FIXTURE, COVE – SURFACE
- EXIT SIGN, UNIVERSAL MOUNT, W/ DIRECTIONAL ARROW
- EXIT SIGN, WALL MOUNT, +8'–0" A.F.F.
- EMERGENCY LIGHT W/ BATTERY PACK, +8'–0" A.F.F.
- FLOOD LIGHT
- AREA LUMINAIRE
- AREA LUMINAIRE W/STANDBY LAMP
- AREA LUMINAIRE, WALL MOUNT
- AREA LUMINAIRE, POLE MOUNT

SWITCH SYMBOLS

- $ SWITCH, SPST +48" A.F.F.
- $_2$ SWITCH, DPST +48" A.F.F.
- $_3$ SWITCH, 3–WAY +48" A.F.F.
- $_4$ SWITCH, 4–WAY +48" A.F.F.
- $_M$ SWITCH, MOMENTARY +48" A.F.F.
- $_D$ SWITCH, DIMMER +48" A.F.F.
- $_P$ SWITCH, SPST, W/PILOT LIGHT +48" A.F.F.
- $_{3P}$ SWITCH, 3–WAY, W/PILOT LIGHT +48" A.F.F.
- $_K$ SWITCH, KEY–OPERATED +48" A.F.F.
- $_T$ SWITCH, TIMED +48" A.F.F.
- $ EXISTING SWITCH, SPST
- PC PHOTOCELL CONTROL
- OS OCCUPANCY SENSOR CONTROL

WIRING SYMBOLS

- 2A–9 PANEL & CIRCUIT NUMBER
- HOMERUN TO PANEL
- #10 CONDUCTOR SIZE (IF OTHER THAN #12)
- PHASE CONDUCTOR
- NEUTRAL CONDUCTOR
- GROUND CONDUCTOR
- CONCEALED CONDUIT
- 1–1/4"C CONDUIT SIZE
- CONDUIT (UNDER SLAB OR FLOOR)
- FLEXIBLE CONNECTION
- CONDUIT, STUBBED & CAPPED
- NORMAL POWER CIRCUIT LINETYPE
- EMERGENCY POWER CIRCUIT LINETYPE
- EXISTING POWER CIRCUIT LINETYPE

FIRE RATED INSTALLATION NOTE:

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

POWER SYMBOLS

- RECEPTACLE, SINGLE +18" A.F.F.
- RECEPTACLE, DUPLEX +18" A.F.F.
- RECEPTACLE, QUAD +18" A.F.F.
- RECEPTACLE, DUPLEX +6" ABV COUNTER
- RECEPTACLE, DUPLEX +18" A.F.F. (ONE OUTLET SWITCHED)
- RECEPTACLE, DUPLEX +18" A.F.F. (BOTH OUTLETS SWITCHED)
- RECEPTACLE, DUPLEX, PEDESTAL MOUNT
- RECEPTACLE, DUPLEX, FLUSH FLOOR MOUNT
- RECEPTACLE, SPECIAL (COORDINATE WITH EQUIPMENT SERVED)
- RELAY
- TIME CLOCK CONTROL
- PUSHBUTTON STATION
- JUNCTION BOX
- JUNCTION BOX, EMERGENCY CIRCUIT
- THERMOSTAT
- TRANSFORMER
- DISCONNECT, NON–FUSED
- DISCONNECT, FUSED
- ELECTRICAL CONNECTION
- ELECTRICAL CONNECTION, SINGLE MOTOR
- ELECTRICAL CONNECTION, MULTI–MOTOR
- ELECTRICAL DISTRIBUTION PANEL, RECESSED
- ELECTRICAL DISTRIBUTION PANEL, SURFACE
- MISCELLANEOUS PANEL, RECESSED
- MISCELLANEOUS PANEL, SURFACE
- FLUSH FLOOR BOX (W/ DEVICES AS SHOWN ON PLAN)
- FIRE SMOKE DAMPER

ONE–LINE DIAGRAM SYMBOLS

- PANEL 'A' — ELECTRICAL DISTRIBUTION PANELBOARD (MLO)
- PANEL 'A' 3P — ELECTRICAL DISTRIBUTION PANELBOARD (MCB)
- SUB–FEED CIRCUIT BREAKER
- 200/3 — CIRCUIT BREAKER (TRIP RATING & POLES AS INDICATED ON PLAN)
- MAIN SWITCH (RATING & POLES AS INDICATED ON PLAN)
- 200A 3P / 200A RK1 — FUSE (RATING & CLASS AS INDICATED ON PLAN)
- NORM / EMERG 200/3 — TRANSFER SWITCH (MANUAL OR AUTOMATIC)
- GEN — GENERATOR (RATING AS INDICATED ON PLAN)
- TRANSFORMER (RATING AS INDICATED ON PLAN)
- 200A RK1 — FUSE (RATING & CLASS AS INDICATED ON PLAN)
- GROUND — GROUND SYSTEM (SIZE AS INDICATED ON PLAN)
- WATER PIPE GROUND ELECTRODE
- TRANSIENT VOLTAGE SURGE SUPPRESSOR
- M — UTILITY METER & METER BASE
- C.T. — UTILITY METER CURRENT TRANSFORMER
- 1 — FEEDER NO. (SEE FEEDER SCHEDULE)
- 480/120V — POTENTIAL TRANSFORMER (RATING AS INDICATED ON PLANS)

ABBREVIATIONS

'A'	LIGHT FIXTURE TYPE (SEE FIXTURE LIST)
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINAL GRADE
A.F.I.	ARC FAULT INTERRUPTER
A.T.S.	TRANSFER SWITCH, AUTOMATIC
C	CONDUIT
C.O.	CONDUIT ONLY
CATV	CABLE TELEVISION
CB	CIRCUIT BREAKER
CCTV	CLOSED CIRCUIT TELEVISION
C.T.	CURRENT TRANSFORMER
(E)	EXISTING
E.L.	EMERGENCY LIGHT
E.L.C.	EXTERIOR LIGHTING CONTROL
FACP	FIRE ALARM CONTROL PANEL
G.F.I.	GROUND FAULT INTERRUPTER
GND	GROUND
H.I.D.	HIGH INTENSITY DISCHARGE
HP	HORSEPOWER
I.G.	ISOLATED GROUND
I R	INFRARED
JB	JUNCTION BOX
LCP	LIGHTING CONTROL PANEL
MCB	MAIN CIRCUIT BREAKER
MLO	MAIN LUGS ONLY
M.T.S.	TRANSFER SWITCH, MANUAL
(N)	NEW
N.I.C.	NOT IN CONTRACT
N.L.	NIGHT LIGHT
OL	OVERLOAD
O.L.C.	OFFICE LIGHTING CONTROL
P	POLE
P.A.	PUBLIC ADDRESS
PC	PARTIAL CIRCUIT
PH	PHASE
PRI	PRIMARY
R.T.U.	REMOTE TELEMETRY UNIT
SEC	SECONDARY
SCCR	SHORT CIRCUIT CURRENT RATING
T.V.S.S.	TRANSIENT VOLTAGE SURGE SUPPRESSOR
U.G.	UNDERGROUND
U.O.N.	UNLESS OTHERWISE NOTED
VFD	VARIABLE FREQUENCY DRIVE
W	WIRE
W.G.	WIRE GUARD
W.P.	WEATHERPROOF
W.T.	WATERTIGHT
X.P.	EXPLOSION PROOF

NOTATIONS

- 1 — DRAWING NOTE
- 2/E3 — DETAIL REFERENCE: TOP=DETAIL NO., BOTTOM=SHEET NO.
- EF-2 — MECHANICAL EQUIPMENT MARK NO. (SEE EQUIPMENT SCHEDULE)
- A — EQUIPMENT NO. (SEE EQUIPMENT SCHEDULE)
- AA — EQUIPMENT NO. (SEE EQUIPMENT SCHEDULE)
- AAA — EQUIPMENT NO. (SEE EQUIPMENT SCHEDULE)
- 'A' 2–32 — FIXTURE REFERENCE: TOP=TYPE, BOTTOM=LAMP QTY & WATTS

GENERAL CONSTRUCTION NOTES:

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

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

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

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

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

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

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. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE & NATIONAL CODES.

C. CONTRACTOR SHALL REVIEW THE DIVISION 26 SPECIFICATIONS AND THE ENTIRE DRAWING PACKAGE FOR THIS PROJECT PRIOR TO THE START OF ANY WORK.

D. THE ELECTRICAL CONTRACTOR SHALL CONSULT WITH ALL OTHER TRADES AND PROVIDE THE APPROPRIATE POWER CONNECTION(S) AND COORDINATE EXACT LOCATIONS PRIOR TO ROUGH IN.

E. THE ELECTRICAL CONTRACTOR SHALL IMMEDIATELY ADVISE THE ARCHITECT OF ANY DISCREPANCIES DISCOVERED WITHIN THE DOCUMENTS.

F. ALL PRODUCT SUBMITTALS AND SUBSTITUTIONS SHALL BE PROVIDED TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO PLACING ANY ORDERS.

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

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

I. REFER TO INTERIOR DECORATOR AND/OR ARCHITECTURAL DRAWINGS FOR EXACT LOCATION(S) AND ELEVATIONS FOR FIXTURES & DEVICES.

J. ELECTRICAL PANELS LOCATED IN PUBLIC OR UNSECURED SPACES SHALL BE PROVIDED WITH A LOCKABLE DOOR PANEL.

K. SERVICE ENTRANCE AND METERING EQUIPMENT SHOWN TO APPROXIMATE SCALE, BASED ON INDUSTRY STANDARD PRODUCTS. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT WILL FIT THE SPACE AND MAINTAIN REQUIRED WORKING CLEARANCES.

L. COORDINATE WITH LOCAL UTILITY PROVIDER FOR EXACT SERVICE CONDUIT AND CONDUCTORS REQUIREMENTS.

M. ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH PGE ELECTRICAL SERVICE REQUIREMENTS.

⚠ N. THERE SHALL BE NO SURFACE MOUNTED DEVICES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.

O. ELECTRICAL CONTRACTOR SHALL CONSULT ARCHITECTURAL AND INTERIOR DECORATOR'S PLAN DOCUMENTS SUCH AS INTERIOR ELEVATIONS, REFLECTED CEILING PLANS, ETC., FOR FIXTURE AND DEVICE DIMENSIONS NOT OTHERWISE NOTED ON THE ELECTRICAL PLANS.

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EXPIRES: July 5th, 2020

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

REVISIONS

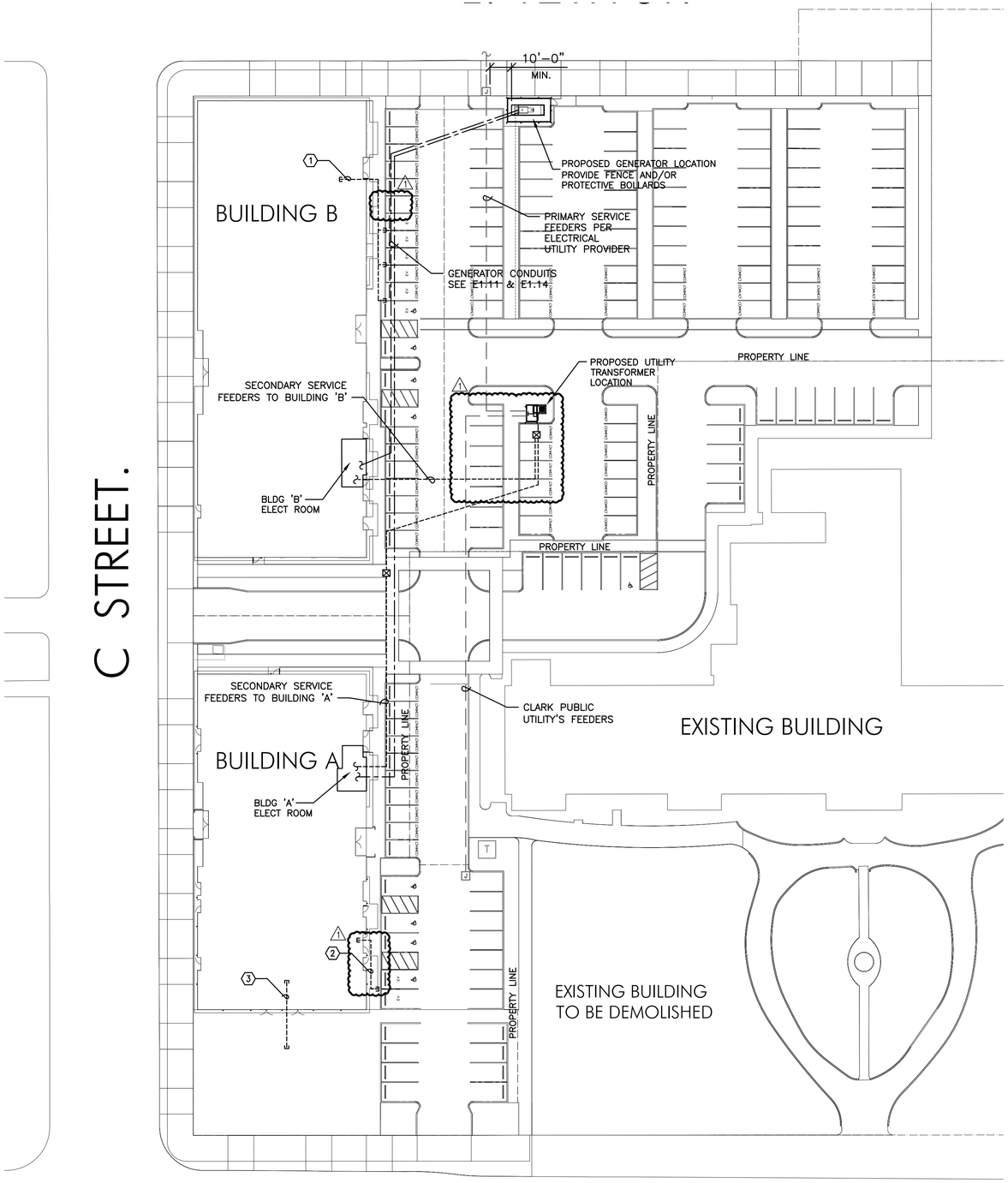
⚠ PLAN REVIEW 01.24.2020

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1 E1.01 SITE ELECTRICAL PLAN
SCALE: 1" = 30'-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 CLARK PUBLIC UTILITIES ELECTRICAL SERVICE REQUIREMENTS.

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

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

H. REFER TO SHEETS E1.11 & E1.14 FOR ONE-LINE DIAGRAM, LOAD SUMMARY INFORMATION AND TYPICAL FEEDER SCHEDULE.

I. SECONDARY CONDUIT SWEEPS SHALL BE MINIMUM 60 INCH RADIUS WITH A MINIMUM OF 7'-0" STRAIGHT CONDUIT RUN BETWEEN SWEEPS.

J. CONTRACTOR SHALL REVIEW CLARK PUBLIC UTILITIES ELECTRICAL SERVICE REQUIREMENTS PRIOR TO THE START OF ANY WORK.

K. LOCATION AND INSTALLATION OF THE PRIMARY AND SECONDARY CONDUITS, TRANSFORMER, ETC. SHALL BE PROVIDED PER CLARK PUBLIC UTILITES ELECTRICAL SERVICE REQUIREMENTS.

L. CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND SPECIFICATIONS IN DETAIL AND REFER TO THE DOCUMENTS THROUGHOUT THE CONSTRUCTION.

⬡ KEYED POWER NOTES:

⚠1. ROUTE (3) 3/4" PVC CONDUIT W/ PULL STRING FROM BUILDING 'B' ELECTRICAL ROOM #198 TO PARKING LOT LOCATION FOR FUTURE EV CHARGING STATION. STUB-UP FLUSH WITH FINISHED GRADE AND CAP AT BOTH ENDS. RESERVE (4) 40A, 208V, 1P CIRCUITS IN PANEL 'M1' FOR FUTURE ELECTRICAL CONNECTION.

2. ROUTE ONE 3/4" PVC CONDUIT W/ PULL STRING FROM BUILDING 'A' ELECTRICAL ROOM #292 TO PARKING LOT LOCATION FOR FUTURE EV CHARGING STATION. STUB-UP FLUSH WITH FINISHED GRADE AND CAP AT BOTH ENDS. RESERVE ONE 40A, 208V, 1P CIRCUITS IN PANEL 'M1' FOR FUTURE ELECTRICAL CONNECTION.

3. PROVIDE (2) 3/4" PVC CONDUIT W/ PULL STRING, ROUTED UNDERGROUND FROM MAINTENANCE ROOM #192A TO BUILDING EXTERIOR FOR FUTURE CCTV CONNECTIONS AND CAP AT BOTH ENDS.

CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES BEFORE TRENCHING.

UTILITY REQUIREMENTS

1. CUSTOMER TO PROVIDE ALL TRENCHING AND BACKFILLING. TRENCH TO BE 36 INCHES DEEP AND 30 INCHES WIDE, MEASURED FROM FINAL GRADE.

2. ALL UTILITY CONDUCTORS TO BE INSTALLED IN GRAY SCHEDULE 40, ELECTRICAL GRADE, PVC CONDUIT WITH NYLON PULL STRINGS (MIN 500 LBS. TEST). CLARK PUBLIC UTILITIES TO DETERMINE THE SIZE AND NUMBER OF CONDUITS REQUIRED. ALL ELBOWS TO BE 36 INCH (MIN) RADIUS. ALL BENDS MAY BE FACTORY MADE. IF MORE THAN 270 DEGREES OF BENDS OR IF RUN IS LONGER THAN 150 FEET, BENDS MUST BE RIGID STEEL.

3. CONSULT WITH UTILITY REPRESENTATIVE 2 WEEKS BEFORE STARTING MAIN POWER TRENCHING FOR A PRE-CONSTRUCTION CONFERENCE. INCLUDED IN THIS CONFERENCE WILL BE EXCAVATOR, CPU, TELCO, CATV, AND GAS.

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

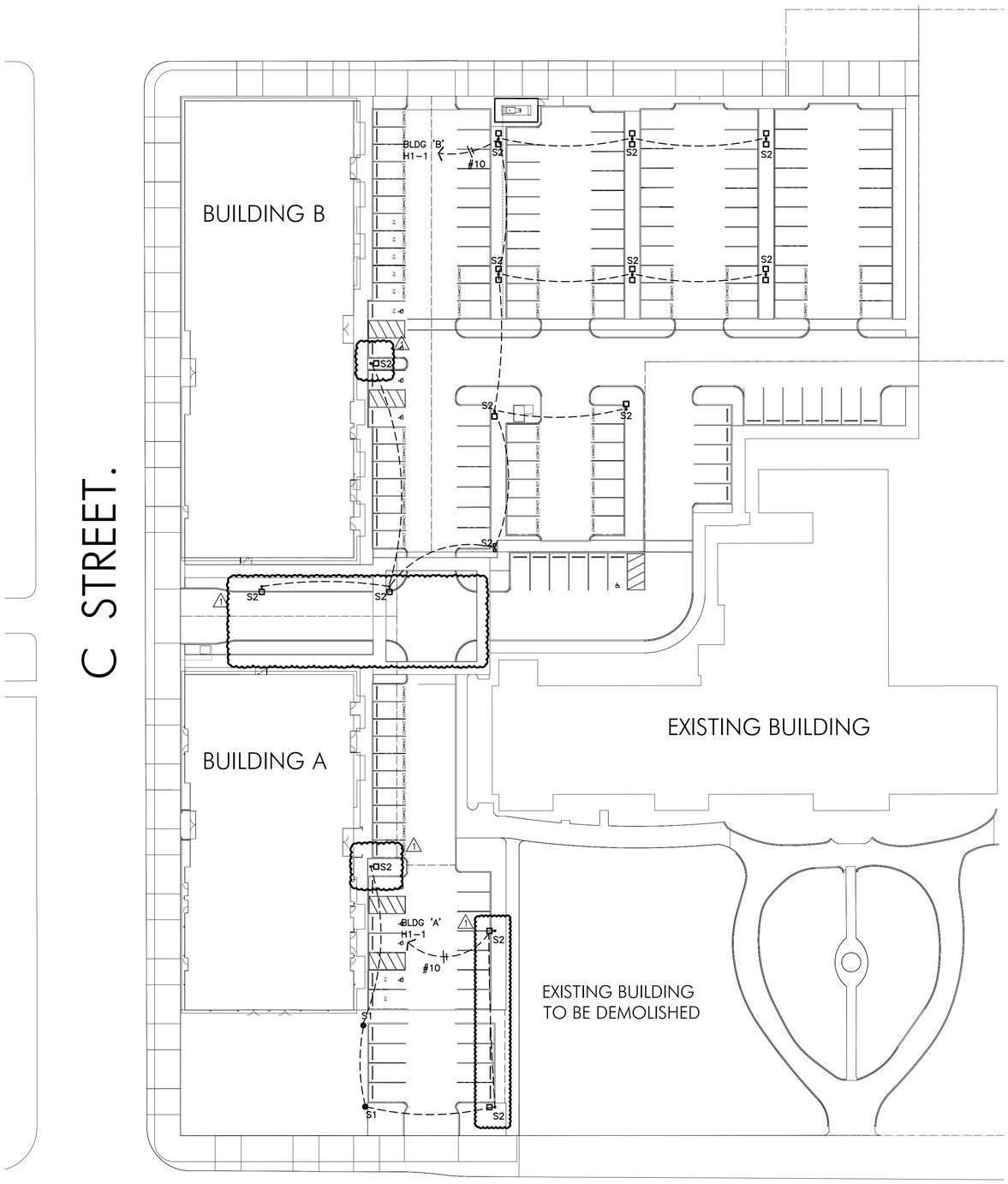
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⚠ PLAN REVIEW 01.24.2020

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1 E1.02 SITE LIGHTING PLAN
SCALE: 1" = 30'-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 CLARK PUBLIC UTILITIES ELECTRICAL SERVICE REQUIREMENTS.

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

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

H. REFER TO SHEETS E1.11 & E1.14 FOR ONE-LINE DIAGRAM, LOAD SUMMARY INFORMATION AND TYPICAL FEEDER SCHEDULE.

I. SECONDARY CONDUIT SWEEPS SHALL BE MINIMUM 60 INCH RADIUS WITH A MINIMUM OF 7'-0" STRAIGHT CONDUIT RUN BETWEEN SWEEPS.

J. CONTRACTOR SHALL REVIEW CLARK PUBLIC UTILITIES ELECTRICAL SERVICE REQUIREMENTS PRIOR TO THE START OF ANY WORK.

K. LOCATION AND INSTALLATION OF THE PRIMARY AND SECONDARY CONDUITS, TRANSFORMER, ETC. SHALL BE PROVIDED PER CLARK PUBLIC UTILITES ELECTRICAL SERVICE REQUIREMENTS.

L. CONTRACTOR SHALL REVIEW ALL PROJECT DOCUMENTS AND SPECIFICATIONS IN DETAIL AND REFER TO THE DOCUMENTS THROUGHOUT THE CONSTRUCTION.

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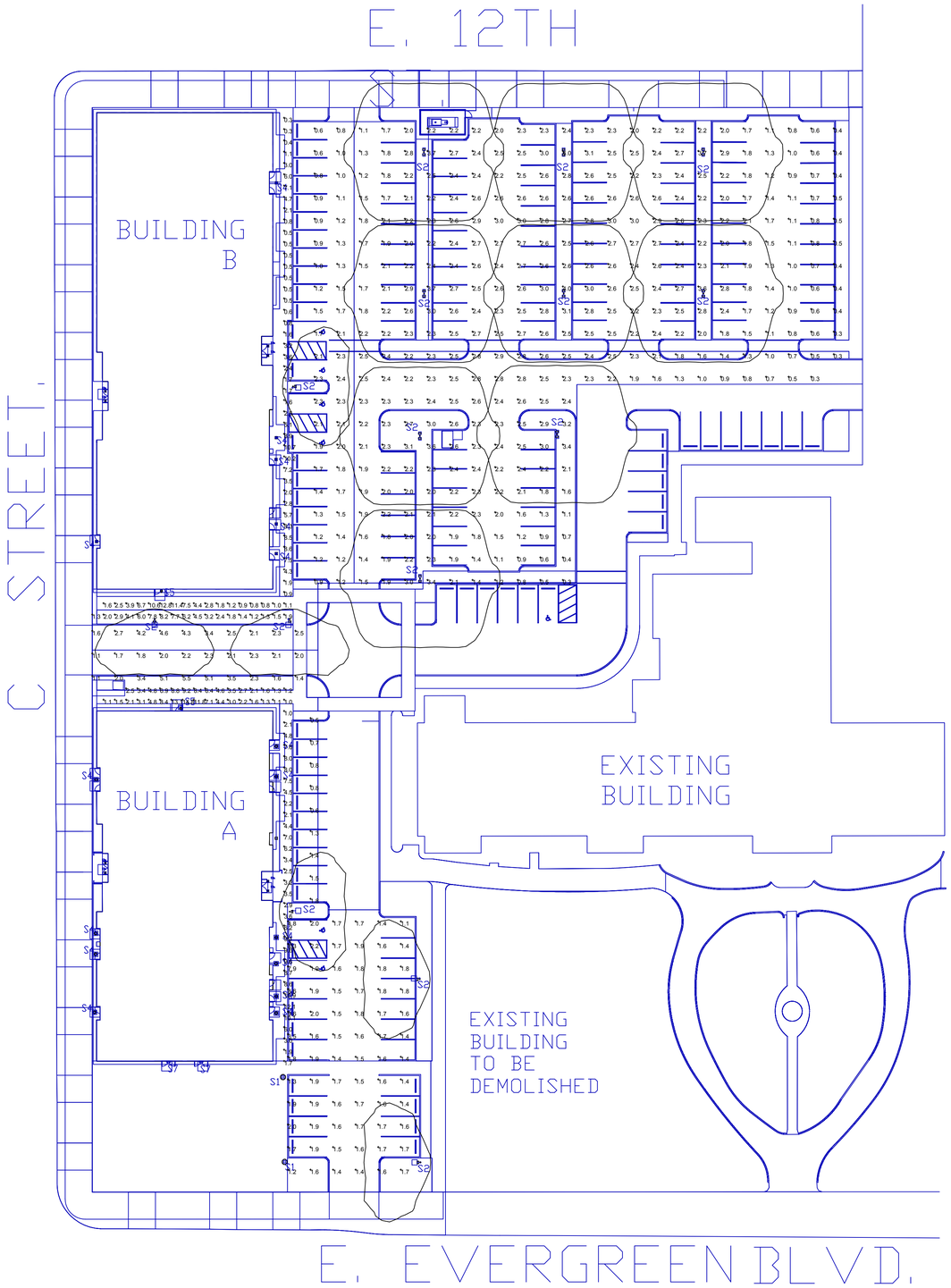
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1 E1.03 SITE LIGHTING PHOTOMETRIC STUDY
SCALE: N.T.S.

LUMINAIRE SCHEDULE

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
○	S1	2	SP1-FLR-Y5-32LED-4K-550 CLEAR CYLINDER LENS	SPECTRA	C-70-CRI DATA SHOWN IS ABSOLUTE.	SP1-FLR-Y5-32LED-4K-550.ies	Absolute	1.00	56.3
▭	S2	9	DSX0 LED P2 30K T3M MVOLT	DSX0 LED P2 30K T3M MVOLT	LED	DSX0_LED_P2_30K_T3M_MVOLT.ies	Absolute	1.00	98
◠	S5	2	PWS-48L-300-NW-G2-3	Pureform LDGN Sconce (PWS), 48 LED's, 4000K CCT, TYPE 3 OPTIC,	(3) LED ARRAY(S) DRIVEN AT 300mA	PWS-48L-300-NW-G2-3.ies	Absolute	1.00	46.8
◪	S3	8	1010-B1-S-10-LSTD4-9014-M2-30KS-50-NCSM MOD to ROUND	n/a	n/a	1020-B1-S-10-LRTD4-9014-M2-30KS-50-MOD.IES	Absolute	1.00	14.9
◠	S3a	0	DS-CD0517-N35-WT	Surface-mounted Luminaires		DS-CD0517-N35-WT.IES	Absolute	1.00	16.7241
□	S4	17	P4RDL20835CLZ10U	LYTEPROFILE 4.5 INCH ROUND	LED	P4RDL20835CLZ10U.ies	Absolute	1.00	19.7
▭	S2a	6	DSX0 LED P2 30K T3M MVOLT	DSX0 LED P2 30K T3M MVOLT	LED	DSX0_LED_P2_30K_T3M_MVOLT.ies	Absolute	1.00	49

STATISTICS

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Bldg A Walks	+	5.2 fc	14.8 fc	1.0 fc	14.8:1	5.2:1
Bldg B Walkway	+	3.6 fc	12.8 fc	0.3 fc	42.7:1	12.0:1
Driveway	+	2.7 fc	5.5 fc	1.1 fc	5.0:1	2.5:1
N. Parking Lot	+	2.0 fc	4.0 fc	0.3 fc	13.3:1	6.7:1
S. Parking Lot	+	2.0 fc	9.6 fc	0.5 fc	19.2:1	4.0:1

NOTES:

1. Photometric studies are for reference only and shall not be used for construction purposes.
Refer to the electrical site plan sheet, E1.01 for additional information.

2. Photometric data is based on manufacturer provided IES files.
Illuminance calculations are approximate and may differ from actual field measurements.

3. Refer to Light Fixture Schedule on sheet E1.21 for fixture and pole heights.

4. Data does not factor in existing light fixtures on adjacent properties.

5. For the purposes of this study, areas with "0.0" lumen levels have been masked to provide the statistics shown in the table.

6. Building mounted light fixtures are for reference and mounting heights are approximate.

7. All street lighting shown in this study is for reference only, to demonstrate their contrabution to the site lighting levels.

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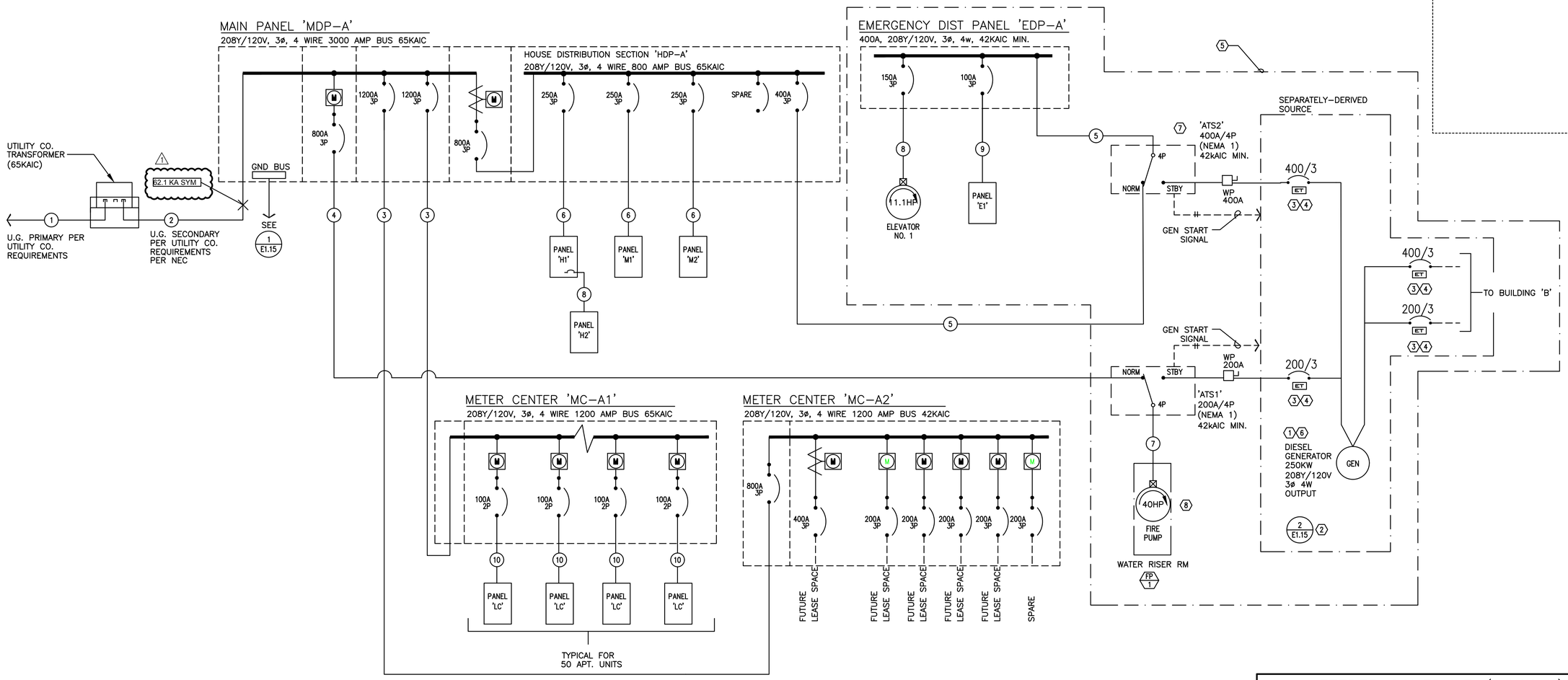
PROJECT # 2017-053
DATE: 11/06/2019

REVISIONS
1 PLAN REVIEW 01.24.2020

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

SHEET: E1.03

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BUILDING 'A' ELECTRICAL ONE-LINE DIAGRAM

1 / E1.11

208/120v, 3ph, 4w

FEEDER SCHEDULE (COPPER)

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

* PARALLEL FEEDER

ONE-LINE GENERAL NOTES:

A. COORDINATE ALL WORK ASSOCIATED WITH ELECTRIC SERVICE WITH LOCAL UTILITY. PROVIDE ALL CONDUIT, GROUNDING, TRANSFORMER VAULT/PAD, ETC., IN ACCORDANCE WITH SERVING UTILITY REQUIREMENTS.

B. COORDINATE METERING REQUIREMENTS WITH UTILITY.

C. FOR LOAD CENTER FEEDER LENGTHS GREATER THAN 145'-0" FROM METER CENTER, INCREASE WIRE SIZE ONE SIZE UP FOR VOLTAGE DROP.

D. PER NEC 240.87, THE ELECTRICAL CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR ARC ENERGY REDUCTION DEVICE(S) FOR CIRCUIT BREAKERS 1200A OR GREATER. CONTRACTOR SHALL PROVIDE AN ENERGY-REDUCING ACTIVE FLASH MITIGATION SYSTEM OR OTHER METHOD APPROVED BY THE NEC.

E. USE OF ALUMINUM CONDUCTORS, AS ALLOWED BY CODE, MAY BE SUBSTITUTED FOR COPPER. CONTRACTOR SHALL PROVIDE WRITTEN SUBSTITUTION REQUEST DEMONSTRATING THE THAT THE PROPOSED PRODUCT IS EQUIVALENT TO COPPER IN ALL ASPECTS.

⬡ ONE-LINE NOTES:

1. ESTIMATED GENERATOR STARTING LOAD IS BASED ON THE ELEVATOR & FIRE PUMP MOTORS BEING PROVIDED WITH REDUCED STARTING.

2. PROVIDE GROUND FOR SEPARATELY DERIVED SYSTEM PER NEC.

3. PROVIDE ELECTRONIC TRIP CIRCUIT BREAKER. EXACT BREAKER TYPE, SETTINGS, ETC. TO BE VERIFIED AND AS DETERMINED BY SELECTIVE COORDINATION STUDY AS PERFORMED BY THE ELECTRICAL DISTRIBUTION EQUIPMENT MANUFACTURER.

4. COORDINATE INSTALLATION OF OUTPUT BREAKERS WITH GENERATOR MANUFACTURER TO SELECTIVELY COORDINATE WITH POWER STUDY RECOMMENDATIONS.

5. 'LIFE SAFETY' BRANCH TO MEET ALL REQUIREMENTS OF NEC 700. CONTRACTOR SHALL BE AWARE THAT MFIA HAS ATTEMPTED TO INDICATE EQUIPMENT AND SIZES THAT WILL SELECTIVELY COORDINATE, BUT WILL NOT BE KNOWN UNTIL ELECTRICAL EQUIPMENT MANUFACTURER PERFORMS THE REQUIRED POWER STUDIES AS SPECIFIED IN 26 05 73. CHANGES MAY BE NECESSARY AFTER THE BID.

6. GENERATOR IS SIZED TO OPERATE ONLY ONE ELEVATOR AT A TIME. COORDINATE WITH ELEVATOR & GENERATOR PROVIDERS FOR AUTOMATIC SEQUENTIAL OPERATION AS REQUIRED UNDER ASME A17.1, SECTION 2.27.2.1 THROUGH 2.27.2.5.

7. THE AUTOMATIC TRANSFER SWITCH FOR THE EMERGENCY PANEL "EDP" SHALL OPERATE SUCH THAT THE EGRESS LOADS ARE SWITCHED TO GENERATOR POWER WITHIN 10 SECONDS AND THE ELEVATOR(S) SWITCHED WITHIN 60 SECONDS OF A POWER FAILURE.

8. CONSULT MECHANICAL, PLUMBING AND/OR FIRE ALARM PLANS AND VERIFY EXACT POWER REQUIREMENTS FOR THE FIRE PUMP.

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Estimated Loads — Aegis I – Bldg A — Main distribution Center "MDP–A"

LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
PANEL H1/H2	6,606	32,880	1,500		13,134		
PANEL M1/M2			25,200		10,200	80,139	
PANEL E1	6,250	1,500	0	0	10,000	2,352	
Elevator 1 (40hp)						43,200	43,200
Fire Pump						43,200	
Residential Meters (MC–A1)				350,000			
Retail Meters (MC–A2)				138,000			
SUBTOTAL	12,856	34,380	26,700	488,000	33,334	168,891	43,200
X–FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	16,070	22,190	26,700	488,000	33,334	168,891	10,800

CONN LOAD:	807	KVA

VOLTS:	208	3ph
TOTAL CALC:	766	KVA
CALC AMPS:	2126	AMPS

Aegis I – Bldg A — Emergency Distribution Panel "EDP–A"

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

CONN LOAD:	105	KVA

VOLTS:	208	3ph
TOTAL CALC:	74	KVA
CALC AMPS:	206	AMPS

Estimated Loads — Aegis I – Bldg 'A' — Commercial Meter Center "MC–A2"

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

CONN LOAD:	123	KVA

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

Estimated Loads — Aegis I – Bldg A & B — Generator Load Summary

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

CONN LOAD:	387	KVA

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

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

UNIT TYPE:	QTY PER FLOOR						TOTAL	AREA (SF)	LTG/RECEPT (3VA / SF)	SM APPL (1500VA X 2)	LAUNDRY (1500VA)	COOKING (CONNECTED)	MICROWAVE (CONNECTED)	DISHWASHER (CONNECTED)	ELECT DRYER (CONNECTED)	WATER HEATER (CONNECTED)	DISPOSAL (CONNECTED)	MOTORS (CONNECTED)	LARGEST OF: AC/HEATING (CONNECTED)
	Lvl 1	Lvl 2	Lvl 3	Lvl 4	Lvl 5	Lvl 6													
Studio	----	2	2	2	2	----	8	540	1620	3000	1500	8000	1500	1200	3500	0	900	0	3500
1bed/1bath	----	7	7	7	5	----	26	750	2250	3000	1500	8000	1500	1200	3500	0	900	0	5000
2bed/2bath	----	4	4	4	4	----	16	985	2955	3000	1500	8000	1500	1200	3500	0	900	0	5500
TOTALS:	0	13	13	13	11	0	50	39580	118740	150000	75000	400000	75000	60000	175000	0	45000	0	246000

VOLTS:	208	3ph	
TOTAL CONNECTED:	1345	KVA	
DEMAND FACTOR:	0.26		Based on Total Number of Residential Units = 46 – 50 (See N.E.C. Article: 220.84)
TOTAL CALCULATED:	350	KVA	
CALCULATED AMPS:	971	AMPS	

NOTE:

BUILDING 'A' MECHANICAL EQUIPMENT SCHEDULE

NO.	EQUIPMENT NAME	HP/KW	VOLTS	PH	AMPS	CONDUIT	WIRE	GND	CIRCUIT
EF–1	EXHAUST FAN NO.1	8.2HP	120	1		1/2"	#12	#12	SEE UNIT PLANS
EF–2	EXHAUST FAN NO.2	135W	120	1		1/2"	#12	#12	SEE E3.01
EF–3	EXHAUST FAN NO.3	1/10HP	120	1		1/2"	#12	#12	M1–20
EF–4	EXHAUST FAN NO. 4	57W	120	1		1/2"	#12	#12	M2–13
EF–5	EXHAUST FAN NO.5	1/2HP	120	1		1/2"	#12	#12	M2–13
EF–6	EXHAUST FAN NO.6		120	1		1/2"	#12	#12	M2–15
EF–7	EXHAUST FAN NO.7	1/4HP	120	1		1/2"	#12	#12	M2–19
EF–8	EXHAUST FAN NO.8	3/4HP	120	1		1/2"	#12	#12	M2–17
EF–9	EXHAUST FAN NO.9	1/2HP	120	1		1/2"	#12	#12	M2–19
EH–1	ELECTRIC WALL HEATER NO.1	1.5 KW	120	1		1/2"	#12	#12	SEE UNIT PLANS
EH–2	ELECTRIC WALL HEATER NO.2	500W	120	1		1/2"	#12	#12	SEE E3.01
EH–3	ELECTRIC WALL HEATER NO.3	3.0 KW	208	1		1/2"	#12	#12	SEE E3.01
EH–4	ELECTRIC WALL HEATER NO.4	3.0 KW	208	1		1/2"	#12	#12	H1–26
EH–5	ELECTRIC WALL HEATER NO.5	3.0 KW	208	1		1/2"	#12	#12	M1–14,16,18
FC–1	FAN COIL UNIT NO.1	11.3KW	208	3		1/2"	#12	#12	M1–8,10,12
HP–1	HEAT PUMP NO.1		208	3	31.8MCA	3/4"	#8	#10	M2–14,16,18
IAC–1	MINI SPLIT SYST NO.1 (INDOOR)								
OAC–1	MINI SPLIT SYST NO.1 (OUTDOOR)		208	1	28.0 MCA	1/2"	#10	#10	M2–2,4
IAC–2	MINI SPLIT SYST NO.2 (INDOOR)								
OAC–2	MINI SPLIT SYST NO.2 (OUTDOOR)		208	1	28.0 MCA	1/2'	#10	#10	M2–6,8
IHP–1	MINI SPLIT SYST NO.1 (INDOOR) (A & B)								
OHP–1	MINI SPLIT SYST NO.1 (OUTDOOR)		208	1	42.0 MCA	3/4"	#6	#10	SEE UNIT PLANS
IHP–2	MINI SPLIT SYST NO.2 (INDOOR) (A & B)								
OHP–2	MINI SPLIT SYST NO.2 (OUTDOOR)		208	1	22.1 MCA	3/4"	#10	#10	SEE UNIT PLANS
RTU–1	AIR HANDLING UNIT NO.1		208	3	30.0MCA	3/4'	#6	#10	M2–1,3,5
RTU–2	AIR HANDLING UNIT NO.2		208	3	24.0 MCA	1/2'	#10	#10	M2–7,9,11
PTHP–1	THRU–WALL HEAT/AC NO.1	3.5KW	208	1	10.6 MCA	1/2"	#12	#12	REFER TO UNIT PLANS
PTHP–2	THRU–WALL HEAT/AC NO.2	3.5KW	208	1	12.1 MCA	1/2"	#10	#10	REFER TO UNIT PLANS
SP–1	SUMP PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	E1–16
RP–1	RECIRC PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	M1–15
RP–2	RECIRC PUMP NO.2	1/2HP	120	1		1/2"	#12	#12	M1–32
BP–1	BOOSTER PUMP NO.1	(2) 5HP	208	3	28.8 EA.	1"	#4	#10	M1–31,33,35
WH–1	WATER HEATER NO.1 (GAS)		120	1		1/2"	#12	#12	M1–13 (PC)
WH–2	WATER HEATER NO.2 (GAS)		120	1		1/2"	#12	#12	M1–13 (PC)
WH–3	WATER HEATER NO.3 (GAS)		120	1		1/2"	#12	#12	M1–30 (PC)
WH–4	WATER HEATER NO.4 (GAS)		120	1		1/2"	#12	#12	M1–30 (PC)

1 / E1.12 BUILDING 'A' LOAD SUMMARY & EQUIPMENT SCHEDULE
SCALE: NONE

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.

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MFIA PANEL SCHEDULE

panel		mounting		location BLDG 'A'			connected load amps
E1		SURFACE		2nd Flr Rm 294			56
voltage		phase		bus & main			calculated load amps
120/208V		3		100A SCCR: 22K		MLO	60

C	service	va	a/p	no.	a b c	no.	a/p	va	service	C
	SPARE		20/1	1	*	2	20/1	1500	SMOKE DAMPERS - FLR 1	5
1	LIGHTS - BLDG EXTERIOR	500	20/1	3	*	4	20/1	1500	SMOKE DAMPERS - FLR 2&3	5
1	LIGHTS - FLR 1 EGRESS	422	20/1	5	*	6	20/1	1500	SMOKE DAMPERS - FLR 4&5	5
	SPARE	0	20/1	7	*	8	20/1	1500	ELEVATOR PIT - LTS & PLUGS	2
1	LIGHTS - STAIR 1	266	20/1	9	*	10	20/1	1500	ELEVATOR CAD LIGHTS	1
1	LIGHTS - STAIR 2	266	20/1	11	*	12	20/1	1500	ELEVATOR CONTROLLER (OPT)	5
1	LIGHTS - FLR 2 & 3 EGRESS	1296	20/1	13	*	14	20/1	1176	ELEVATOR RELIEF VENT	6
1	LIGHTS - FLR 4, 5 & 6 EGRESS	1500	20/1	15	*	16	20/1	1176	SP-1 (ELEVATOR PIT)	6
1	LIGHTS - TERRACE	500	20/1	17	*	18	20/1	1500	ELEVATOR SMOKE CURTAINS	5
5	FACP	500	20/1	19	*	20	20/1	500	EMERGENCY GAS SHUT OFF	5
5	DAS	500	20/1	21	*	22	20/1	500	EMERGENCY GAS SHUT OFF	5
5	GENERATOR ANNUNCIATOR	500	20/1	23	*	24	20/1	0	SPARE	
	BLANK			25	*	26			BLANK	
	BLANK			27	*	28			BLANK	
	BLANK			29	*	30			BLANK	
	BLANK			31	*	32			BLANK	
	BLANK			33	*	34			BLANK	
	BLANK			35	*	36			BLANK	
	BLANK			37	*	38			BLANK	
	BLANK			39	*	40			BLANK	
	BLANK			41	*	42			BLANK	

Phase A	6472 VA	NOTES:	line-line voltage
Phase B	7442 VA		208
Phase C	6188 VA		largest motor (va)
Total Connected	20102 VA		0

load code:	ph. A	ph. B	ph. C		total	factor	calculated load (va)
1. LIGHTS=	1296	3766	1188	VA	6250	1.25	7813
2. RECEPT.=	1500	0	0	VA	1500	1 + 0.5	1500
3. HEATING=	0	0	0	VA	0	1.00	0
4. KITCHEN=	0	0	0	VA	0	1.00	0
5. EQUIP.=	2500	2500	5000	VA	10000	1.00	10000
6. MOTORS=	1176	1176	0	VA	2352	*	2352
7. MISC=	0	0	0	VA	0	1.00	0
(* 125% of the largest motor + 100% of the balance)					TOTAL =		21665

MFIA PANEL SCHEDULE

panel		mounting		location BLDG 'A'			connected load amps
H1		SURFACE		2nd Flr Rm 294			145
voltage		phase		bus & main			calculated load amps
120/208V		3		250A SCCR: 22K		MLO	138

C	service	va	a/p	no.	a b c	no.	a/p	va	service	C
1	LIGHTS - SITE/PARKING	500	20/1	1	*	2	20/1	1080	RECEPT - FLR 1	2
1	LIGHTS - BLDG EXTERIOR	500	20/1	3	*	4	20/1	900	RECEPT - FLR 1	2
1	LIGHTS - FLR 1 (LOBBY DÉCOR)	814	20/1	5	*	6	20/1	1080	RECEPT - FLR 1 (E. LOBBY)	2
1	LIGHTS - FLR 1 (LOBBY & CORRID)	222	20/1	7	*	8	20/1	1500	RECEPT - FLR 1 (PKG SYSTEM)	2
1	LIGHTS - FLR 1 (BOH)	464	20/1	9	*	10	20/1	1500	AUTO DOORS	5
5	BUILDING SIGNS	1500	20/1	11	*	12	20/1	1440	RECEPT - FLR 1	2
1	LIGHTS - FLR 2 & 3	566	20/1	13	*	14	20/1	360	RECEPT - FLR 1 (ELEV EQ RM)	2
5	UNIT ENTRY SYSTEM	1500	20/1	15	*	16	20/1	720	RECEPT - FLR 1 (W. LOBBY)	2
	SPARE	0	20/1	17	*	18	20/1	500	PHONE BOARD	5
5	FIREPLACE	360	20/1	19	*	20	20/1	500	COMMUNICATIONS BOARD	5
2	RECEPT - FLR 2	1080	20/1	21	*	22	20/1	1500	ACCESS CONTROL SYSTEM	5
2	RECEPT - FLR 3	1080	20/1	23	*	24	20/1	500	EH-2 (N. STAIR)	3
2	RECEPT - MAINT. RM	1500	20/1	25	*	26	20/1	500	EH-4 (RISER RM)	3
2	SECURITY SYSTEM	1500	20/1	27	*	28	20/1	500	EH-2 (S. STAIR)	3
5	A/V SYSTEM	1500	20/1	29	*	30	20/1			
2	LEASE D&E (TEMP LTS & PLUGS)	1500	20/1	31	*	32	20/1		SPARE	
2	LEASE B&C (TEMP LTS & PLUGS)	1500	20/1	33	*	34	20/1		SPARE	
2	LEASE A (TEMP LTS & PLUGS)	1500	20/1	35	*	36	20/1		SPARE	
7	PANEL H2	8320	150/3	37	*	38	20/1		SPARE	
7	*	6554	*	39	*	40	20/1		SPARE	
7	*	7150	*	41	*	42	20/1		SPARE	

Phase A	16908 VA	NOTES:	line-line voltage
Phase B	18218 VA		208
Phase C	17064 VA		largest motor (va)
Total Connected	52190 VA		0

load code:	ph. A	ph. B	ph. C		total	factor	calculated load (va)
1. LIGHTS=	1288	964	814	VA	3066	1.25	3833
2. RECEPT.=	5940	5700	5100	VA	16740	1 + 0.5	13370
3. HEATING=	500	500	500	VA	1500	1.00	1500
4. KITCHEN=	0	0	0	VA	0	1.00	0
5. EQUIP.=	860	4500	3500	VA	8860	1.00	8860
6. MOTORS=	0	0	0	VA	0	*	0
7. MISC=	8320	6554	7150	VA	22024	1.00	22024
(* 125% of the largest motor + 100% of the balance)					TOTAL =		49587

MFIA PANEL SCHEDULE

panel		mounting		location BLDG 'A'			connected load amps
M1		SURFACE		2nd Flr Rm 292			160
voltage		phase		bus & main			calculated load amps
120/208V		3		250A (SCCR: 22K)		MLO	160

C	service	va	a/p	no.	a b c	no.	a/p	va	service	C
6	TRASH COMPACTOR	2100	40/3	1	*	2	50/3	3864	BP-1	6
6	*	2100	*	3	*	4	*	3864	*	6
6	*	2100	*	5	*	6	*	3864	*	6
6	TRASH COOMPACTOR	2100	40/3	7	*	8	20/3	1356	FC-1	6
6	*	2100	*	9	*	10	*	1356	*	6
6	*	2100	*	11	*	12	*	1356	*	6
3	WH-1,2 (GAS)	600	20/1	13	*	14	20/2	1500	EH-5 (TRASH RM)	3
6	RP-1	1176	20/1	15	*	16	*	1500	*	3
	SPARE	0	20/1	17	*	18	20/2	1500	EH-5 (BIKE RM)	3
3	EH-3 (TEMP)	1500	20/2	19	*	20	*	1500	*	3
3	*	1500	*	21	*	22	20/1	218	EF-3 (TRASH RM)	6
3	EH-3 (TEMP)	1500	20/2	23	*	24	20/1	1500	DRINKING FOUNTAIN	5
3	*	1500	*	25	*	26	20/1	0	SPARE	
3	EH-3 (TEMP)	1500	20/2	27	*	28	20/1	0	SPARE	
3	*	1500	*	29	*	30	20/1	600	WH-3,4 (GAS)	3
3	EH-3 (TEMP)	1500	20/2	31	*	32	20/1	1176	RP-2	6
3	*	1500	*	33	*	34	40/3		EV CHARGING STATION (FUTURE)	5
3	EH-3 (TEMP)	1500	20/2	35	*	36	*		*	5
3	*	1500	*	37	*	38	*		*	5
3	EH-3 (TEMP)	1500	20/2	39	*	40	20/1	0	SPARE	
3	*	1500	*	41	*	42	20/1	0	SPARE	

Phase A	20196 VA	NOTES:	line-line voltage
Phase B	18314 VA		208
Phase C	19020 VA		largest motor (va)
Total Connected	57530 VA		0

load code:	ph. A	ph. B	ph. C		total	factor	calculated load (va)
1. LIGHTS=	0	0	0	VA	0	1.25	0
2. RECEPT.=	0	0	0	VA	0	1 + 0.5	0
3. HEATING=	9600	7500	8100	VA	25200	1.00	25200
4. KITCHEN=	0	0	0	VA	0	1.00	0
5. EQUIP.=	0	0	1500	VA	1500	1.00	1500
6. MOTORS=	10596	10814	9420	VA	30830	*	30830
7. MISC=	0	0	0	VA	0	1.00	0
(* 125% of the largest motor + 100% of the balance)					TOTAL =		57530

MFIA PANEL SCHEDULE

panel		mounting		location: BLDG 'A'			connected load amps
H2		SURFACE		5th Flr Rm 594			61
voltage		phase		bus & main			calculated load amps
120/208V		3		150A SCCR: 22K		MLO	55

C	service	va	a/p	no.	a b c	no.	a/p	va	service	C
1	LIGHTS - FLR 4, 5, & 6	650	20/1	1	*	2	20/1	1080	RECEPT - 4TH FLR	2
1	LIGHTS - COMMUNITY RM	1000	20/1	3	*	4	20/1	1080	RECEPT - 5TH FLR	2
	SPARE		20/1	5	*	6	20/1	1300	RECEPT - COMMUNITY RM	2
1	LIGHTS - TERRACE	500	20/1	7	*	8	20/1	450	RECEPT - COMMUNITY RM	2
2	RECEPT - TERRACE	1080	20/1	9	*	10	20/1	500	RECEPT - COMMUNITY RM	2
2	RECEPT - TERRACE	1260	20/1	11	*	12	20/1	1200	RECEPT - COMMUNITY RM	2
2	RECEPT - TERRACE	1260	20/1	13	*	14	20/1	1500	RECEPT - COMMUNITY RM	2
	SPARE	0	20/1	15	*	16	20/1	1650	RECEPT - COMMUNITY RM	2
2	RECEPT - ROOF	1080	20/1	17	*	18	20/1	360	RECEPT - COMMUNITY RM	2
5	IRRIGATION	500	20/1	19	*	20	20/1	1080	RECEPT - COMMUNITY RM	2
5	LANDSCAPE LIGHTING	524	20/1	21	*	22	20/1	720	RECEPT - COMMUNITY RM	2
5	LANDSCAPE LIGHTING	1950	20/1	23	*	24	20/1	0	SPARE	
5	LANDSCAPE LIGHTING	1300	20/1	25	*	26	20/1	0	SPARE	
	SPARE	0	20/1	27	*	28	20/1	0	SPARE	
	BLANK			29	*	30	20/1		BLANK	
	BLANK			31	*	32	20/1		BLANK	
	BLANK			33	*	34	20/1		BLANK	
	BLANK			35	*	36	20/1		BLANK	
	BLANK			37	*	38	20/1		BLANK	
	BLANK			39	*	40	20/1		BLANK	
	BLANK			41	*	42	20/1		BLANK	

Phase A	8320 VA	NOTES:	line-line voltage
Phase B	6554 VA		208
Phase C	7150 VA		largest motor (va)
Total Connected	22024 VA		0

load code:	ph. A	ph. B	ph. C		total	factor	calculated load (va)
1. LIGHTS=	1150	1000	0	VA	2150	1.25	2688
2. RECEPT.=	5370	5030	5200	VA	15600	1 + 0.5	12800
3. HEATING=	0	0	0	VA	0	1.00	0
4. KITCHEN=	0	0	0	VA	0	1.00	0
5. EQUIP.=	1800	524	1950	VA	4274	1.00	4274
6. MOTORS=	0	0	0	VA	0	*	0
7. MISC=	0	0	0	VA	0	1.00	0
(* 125% of the largest motor + 100% of the balance)					TOTAL =		19762

MFIA PANEL SCHEDULE

panel		mounting		location BLDG 'A'			connected load amps
M2		SURFACE		5th Flr Rm 592			135
voltage		phase		bus & main			calculated load amps
120/208V		3		250A (SCCR: 42K)		MLO	135

C	service	va	a/p	no.	a b c	no.	a/p	va	service	C
6	RTU-1	3600	50/3	1	*	2	30/3	2912	IAC/OAC-1	6
6	*	3600	*	3	*	4	*	2912	*	6
6	*	3600	*	5	*	6	30/3	2912	IAC/OAC-2	6
6	RTU-2	2880	30/3	7	*	8	*	2912	*	6
6	*	2880	*	9	*	10	20/1	0	SPARE	
6	*	2880	*	11	*	12	20/1	0	SPARE	
6	EF-4	57	20/1	13	*	14	40/3	3816	HP-1	6
6	EF-5	1176	20/1	15	*	16	*	3816	*	6
6	EF-6	1176	20/1	17	*	18	*	3816	*	6
6	EF-7	696	20/1	19	*	20	20/1	0	SPARE	
6	EF-8	718	20/2	21	*	22	20/1	0	SPARE	
6	*	718	*	23	*	24	20/1	0	SPARE	
6	EF-9	1176	20/1	25	*	26	20/1	0	SPARE	
	SPARE	0	20/1	27	*	28	20/1	500	GAS APPLIANCES AT TERRACE	5
	SPARE	0	20/1	29	*	30	20/1	0	SPARE	
	BLANK			31	*	32			BLANK	
	BLANK			33	*	34			BLANK	
	BLANK			35	*	36			BLANK	
	BLANK			37	*	38			BLANK	
	BLANK			39	*	40			BLANK	
	BLANK			41	*	42			BLANK	

Phase A	18049 VA	NOTES:	line-line voltage
Phase B	15602 VA		208
Phase C	15102 VA		largest motor (va)
Total Connected	48753 VA		0

load code:	ph. A	ph. B	ph. C		total	factor	calculated load (va)
1. LIGHTS=	0	0	0	VA	0	1.25	0
2. RECEPT.=	0	0	0	VA	0	1 + 0.5	0
3. HEATING=	0	0	0	VA	0	1.00	0
4. KITCHEN=	0	0	0	VA	0	1.00	0
5. EQUIP.=	0	500	0	VA	500	1.00	500
6. MOTORS=	18049	15102	15102	VA	48253	*	48253
7. MISC=	0	0	0	VA	0	1.00	0
(* 125% of the largest motor + 100% of the balance)					TOTAL =		48753

1 E1.13 BUILDING 'A' PANEL SCHEDULES
SCALE: NONE

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

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

REVISIONS

1 PLAN REVIEW 01.24.2020

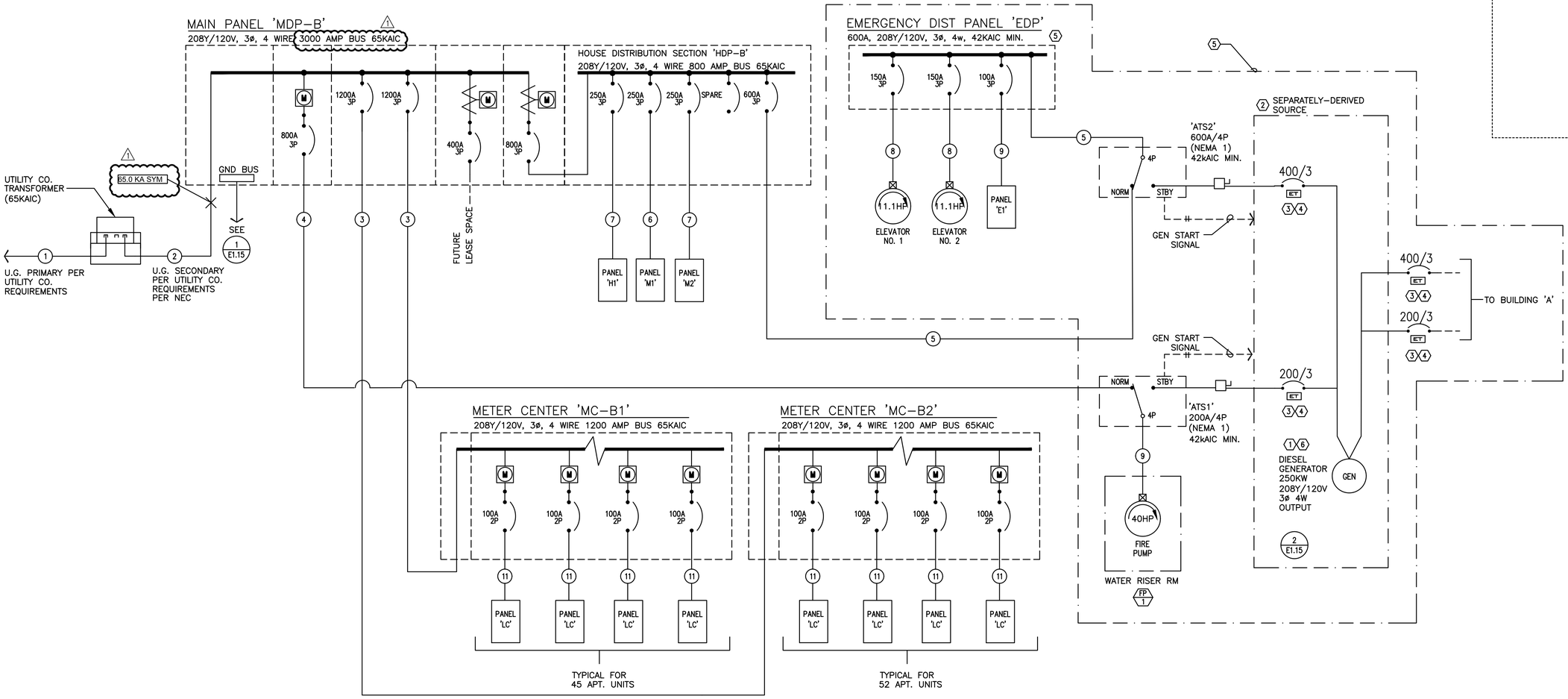
AEGIS MIXED-USE DEVELOPMENT

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BUILDING 'B' ELECTRICAL ONE-LINE DIAGRAM

1 / E1.14

208/120v, 3ph, 4w

ONE-LINE GENERAL NOTES:

A. COORDINATE ALL WORK ASSOCIATED WITH ELECTRIC SERVICE WITH LOCAL UTILITY. PROVIDE ALL CONDUIT, GROUNDING, TRANSFORMER VAULT/PAD, ETC., IN ACCORDANCE WITH SERVING UTILITY REQUIREMENTS.

B. COORDINATE METERING REQUIREMENTS WITH UTILITY.

C. FOR LOAD CENTER FEEDER LENGTHS GREATER THAN 145'-0" FROM METER CENTER, INCREASE WIRE SIZE ONE SIZE UP FOR VOLTAGE DROP.

D. PER NEC 240.87, THE ELECTRICAL CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR ARC ENERGY REDUCTION DEVICE(S) FOR CIRCUIT BREAKERS 1200A OR GREATER. CONTRACTOR SHALL PROVIDE AN ENERGY-REDUCING ACTIVE FLASH MITIGATION SYSTEM OR OTHER METHOD APPROVED BY THE NEC.

E. USE OF ALUMINUM CONDUCTORS, AS ALLOWED BY CODE, MAY BE SUBSTITUTED FOR COPPER. CONTRACTOR SHALL PROVIDE WRITTEN SUBSTITUTION REQUEST DEMONSTRATING THE THAT THE PROPOSED PRODUCT IS EQUIVALENT TO COPPER IN ALL ASPECTS.

⬡ ONE-LINE NOTES:

1. ESTIMATED GENERATOR STARTING LOAD IS BASED ON THE ELEVATOR & FIRE PUMP MOTORS ARE PROVIDED WITH SOFT-START

2. PROVIDE GROUND FOR SEPARATELY DERIVED SYSTEM PER NEC.

3. PROVIDE ELECTRONIC TRIP CIRCUIT BREAKER. EXACT BREAKER TYPE, SETTINGS, ETC. TO BE VERIFIED AND AS DETERMINED BY SELECTIVE COORDINATION STUDY AS PERFORMED BY THE ELECTRICAL DISTRIBUTION EQUIPMENT MANUFACTURER.

4. COORDINATE INSTALLATION OF OUTPUT BREAKER WITH GENERATOR MANUFACTURER TO SELECTIVELY COORDINATE WITH POWER STUDY RECOMMENDATIONS.

5. 'LIFE SAFETY' BRANCH TO MEET ALL REQUIREMENTS OF NEC 700. CONTRACTOR SHALL BE AWARE THAT MFIA HAS ATTEMPTED TO INDICATE EQUIPMENT AND SIZES THAT WILL SELECTIVELY COORDINATE, BUT WILL NOT BE KNOWN UNTIL ELECTRICAL EQUIPMENT MANUFACTURER PERFORMS THE REQUIRED POWER STUDIES AS SPECIFIED IN 26 05 73. CHANGES MAY BE NECESSARY AFTER THE BID.

6. GENERATOR SIZED TO OPERATE ONLY ONE ELEVATOR AT A TIME. COORDINATE WITH ELEVATOR PROVIDER FOR AUTOMATIC SEQUENTIAL OPERATION AS REQUIRED UNDER ASME A17.1, SECTION 2.27.2.1 THROUGH 2.27.2.5.

7. THE AUTOMATIC TRANSFER SWITCH FOR THE EMERGENCY PANEL "EDP" SHALL OPERATE SUCH THAT THE EGRESS LOADS ARE SWITCHED TO GENERATOR POWER WITHIN 10 SECONDS AND THE ELEVATOR(S) SWITCHED WITHIN 60 SECONDS OF A POWER FAILURE .

FEEDER SCHEDULE (COPPER)

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

* PARALLEL FEEDER

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REVISIONS

1 PLAN REVIEW 01.24.2020

AEGIS MIXED-USE DEVELOPMENT

312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

SHEET: E1.14

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Estimated Loads — Aegis I – Bldg B — Main distribution Center "MDP-B"

LOAD:	LIGHTS	RECEPT	HEAT	MISC	EQUIP	MOTORS	LARGEST MOTOR
PANEL H1	6,606	19,380	1,500	0	9,500	0	
PANEL M1/M2	1,047	3,240	13,200			88,175	
PANEL E1	7,250	1,500			11,000	2,352	
Elevator 1 (40hp)						43,200	43,200
Elevator 2 (40hp)						43,200	
Fire Pump						43,200	
Residential Meters (MC-B1)				325,000			
Residential Meters (MC-B2)				346,000			
Retail Space 'F' 981sf @ 30w/sf				29,500			
SUBTOTAL	14,903	24,120	14,700	700,500	20,500	220,127	43,200
X-FACTOR	1.25	1 + .5	1	1	1	1	0.25
CODE LOAD:	18,629	17,060	14,700	700,500	20,500	220,127	10,800

CONN LOAD:	1038	KVA

VOLTS:	208	3ph
TOTAL CALC:	1002	KVA
CALC AMPS:	2782	AMPS

Aegis I – Bldg B — Emergency Distribution Panel 'EDP-B'

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

CONN LOAD:	152	KVA

VOLTS:	208	3ph
TOTAL CALC:	122	KVA
CALC AMPS:	338	AMPS

Estimated Loads — Aegis I – Bldg A & B — Generator Load Summary

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

CONN LOAD:	387	KVA

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

Aegis I – Bldg B — RESIDENTIAL LOAD SUMMARY 'MC-B1'

UNIT TYPE:	QTY PER FLOOR						TOTAL	AREA (SF)	LTG/RECEPT (3VA / SF)	SM APPL (1500VA X 2)	LAUNDRY (1500VA)	COOKING (CONNECTED)	MICROWAVE (CONNECTED)	DISHWASHER (CONNECTED)	ELECT DRYER (CONNECTED)	WATER HEATER (CONNECTED)	DISPOSAL (CONNECTED)	MOTORS (CONNECTED)	LARGEST OF: AC/HEATING (CONNECTED)
	Lvl 1	Lvl 2	Lvl 3	Lvl 4	Lvl 5	Lvl 6													
Studio	0	2	2	2	2	2	10	540	1620	3000	1500	8000	1500	1200	3500	0	900	0	3500
1bed/1bath	0	4	4	4	4	4	20	750	2250	3000	1500	8000	1500	1200	3500	0	900	0	5000
2bed/2bath	0	3	3	3	3	3	15	985	2955	3000	1500	8000	1500	1200	3500	0	900	0	5500
TOTALS:	0	9	9	9	9	9	45	35175	105525	135000	67500	360000	67500	54000	157500	0	40500	0	217500

VOLTS:	208	3ph
TOTAL CONNECTED:	1205	KVA
DEMAND FACTOR:	0.27	Based on Total Number of Residential Units = 43-45 (See N.E.C. Article: 220.84)
TOTAL CALCULATED:	325	KVA
CALCULATED AMPS:	903	AMPS

NOTE:

Aegis I – Bldg B — RESIDENTIAL LOAD SUMMARY 'MC-B2'

UNIT TYPE:	QTY PER FLOOR						TOTAL	AREA (SF)	LTG/RECEPT (3VA / SF)	SM APPL (1500VA X 2)	LAUNDRY (1500VA)	COOKING (CONNECTED)	MICROWAVE (CONNECTED)	DISHWASHER (CONNECTED)	ELECT DRYER (CONNECTED)	WATER HEATER (CONNECTED)	DISPOSAL (CONNECTED)	MOTORS (CONNECTED)	LARGEST OF: AC/HEATING (CONNECTED)
	Lvl 1	Lvl 2	Lvl 3	Lvl 4	Lvl 5	Lvl 6													
Studio	3	2	2	2	2	2	13	540	1620	3000	1500	8000	1500	1200	3500	0	900	0	3500
1bed/1bath	2	5	5	5	5	5	27	750	2250	3000	1500	8000	1500	1200	3500	0	900	0	5000
2bed/2bath	2	2	2	2	2	2	12	985	2955	3000	1500	8000	1500	1200	3500	0	900	0	5500
TOTALS:	7	9	9	9	9	9	52	39090	117270	156000	78000	416000	78000	62400	182000	0	46800	0	246500

VOLTS:	208	3ph
TOTAL CONNECTED:	1383	KVA
DEMAND FACTOR:	0.25	Based on Total Number of Residential Units = 51-55 (See N.E.C. Article: 220.84)
TOTAL CALCULATED:	346	KVA
CALCULATED AMPS:	960	AMPS

NOTE:

BUILDING 'B' MECHANICAL EQUIPMENT SCHEDULE

NO.	EQUIPMENT NAME	HP/KW	VOLTS	PH	AMPS	CONDUIT	WIRE	GND	CIRCUIT
EF-1	EXHAUST FAN NO.1	9.9HP	120	1		1/2"	#12	#12	SEE UNIT PLANS
EF-2	EXHAUST FAN NO.2	10.8HP	120	1		1/2"	#12	#12	SEE UNIT PLANS
EF-3	EXHAUST FAN NO.3	8.2HP	120	1		1/2"	#12	#12	SEE E3.01
EF-4	EXHAUST FAN NO. 4	135W	120	1		1/2"	#12	#12	M1-21
EF-5	EXHAUST FAN NO.5	1/10HP	120	1		1/2"	#12	#12	M1-32,34,36
EF-6	EXHAUST FAN NO.6	1/4HP	120	1		1/2"	#12	#12	M2-5
EF-7	EXHAUST FAN NO.7	57W	120	1		1/2"	#12	#12	M2-32
EF-8	EXHAUST FAN NO.8	1/2HP	120	1		1/2"	#12	#12	M2-25
EF-9	EXHAUST FAN NO.9	3/4HP	120	1		1/2"	#12	#12	M2-27,29
EF-10	EXHAUST FAN NO.10	1/2HP	120	1		1/2"	#12	#12	M2-31
EF-11	EXHAUST FAN NO.11	1/2HP	120	1		1/2"	#12	#12	M2-33
EF-12	EXHAUST FAN NO.12	3/4HP	120	1		1/2"	#12	#12	M2-26,28
EF-13	EXHAUST FAN NO.13	1/2HP	120	1		1/2"	#12	#12	M2-30
EH-1	ELECTRIC WALL HEATER NO.1	1.5 KW	120	1		1/2"	#12	#12	SEE UNIT PLANS
EH-2	ELECTRIC WALL HEATER NO.2	500W	120	1		1/2"	#12	#12	SEE E3.01
EH-3	ELECTRIC WALL HEATER NO.3	3.0 KW	208	1		1/2"	#12	#12	SEE E3.01
EH-4	ELECTRIC WALL HEATER NO.4	3.0 KW	208	1		1/2"	#12	#12	H1-29
EH-5	ELECTRIC WALL HEATER NO.5	3.0 KW	208	1		1/2"	#12	#12	SEE E3.01
FC-1	FAN COIL UNIT NO.1	11.3KW	208	3		1/2"	#12	#12	M1-8,10,12
HP-1	HEAT PUMP NO.1		208	3	31.8 MCA	3/4"	#6	#10	M2-14,16,18
IAC-1	MINI SPLIT SYST NO.1 (INDOOR)								
OAC-1	MINI SPLIT SYST NO.1 (OUTDOOR)		208	1	28.0 MCA	1/2"	#10	#10	M2-7,9
IAC-2	MINI SPLIT SYST NO.2 (INDOOR)								
OAC-2	MINI SPLIT SYST NO.2 (OUTDOOR)		208	1	28.0 MCA	1/2'	#10	#10	M2-8,10
IHP-1	MINI SPLIT SYST NO.1 (INDOOR) (A & B)								
OHP-1	MINI SPLIT SYST NO.1 (OUTDOOR)		208	1	25.0 MCA	3/4"	#8	#10	SEE UNIT PLANS
IHP-2	MINI SPLIT SYST NO.2 (INDOOR) (A & B)								
OHP-2	MINI SPLIT SYST NO.2 (OUTDOOR)		208	1	18.7 MCA	1/2'	#12	#12	SEE UNIT PLANS
IHP-3	MINI SPLIT SYST NO.3 (INDOOR) (A & B)								
OHP-3	MINI SPLIT SYST NO.3 (OUTDOOR)		208	1	18.7 MCA	1/2'	#12	#12	SEE UNIT PLANS
IHP-4	MINI SPLIT SYST NO.4 (INDOOR)								
OHP-4	MINI SPLIT SYST NO.4 (OUTDOOR)		208	1	18.7 MCA	1/2'	#12	#12	SEE UNIT PLANS
IHP-5	MINI SPLIT SYST NO.5 (INDOOR)								
OHP-5	MINI SPLIT SYST NO.5 (OUTDOOR)		208	1	18.7 MCA	1/2'	#12	#12	SEE UNIT PLANS
RTU-1	AIR HANDLING UNIT NO.1		208	3	41.0 MCA	3/4'	#6	#10	M2-19,21,23
RTU-2	AIR HANDLING UNIT NO.2		208	3	30.0MCA	3/4"	#6	#10	M2-20,22,24
PTHP-1	THRU-WALL HEAT/AC NO.1	3.5KW	208	1	10.6 MCA	1/2"	#12	#12	REFER TO UNIT PLANS
PTHP-2	THRU-WALL HEAT/AC NO.2	3.5KW	208	1	12.1 MCA	1/2"	#10	#10	REFER TO UNIT PLANS
SP-1	SUMP PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	E1-16
RP-1	RECIRC PUMP NO.1	1/2HP	120	1		1/2"	#12	#12	M1-15
RP-2	RECIRC PUMP NO.2	1/2HP	120	1		1/2"	#12	#12	M1-16
BP-1	BOOSTER PUMP NO.1	(2) 5HP	208	3		3/4"	#6	#10	M1-2,4,6
WH-1	WATER HEATER NO.1 (GAS)		120	1		1/2"	#12	#12	M1-13 (PC)
WH-2	WATER HEATER NO.2 (GAS)		120	1		1/2"	#12	#12	M1-13 (PC)
WH-3	WATER HEATER NO.3 (GAS)		120	1		1/2"	#12	#12	M1-14 (PC)
WH-4	WATER HEATER NO.4 (GAS)		120	1		1/2"	#12	#12	M1-14 (PC)

1 / E1.15 BUILDING 'B' LOAD SUMMARY & EQUIPMENT SCHEDULE
SCALE: NONE

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.

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ROBERT L. CONNELL — STATE OF WASHINGTON — 20053 — REGISTERED PROFESSIONAL ENGINEER
EXPIRES: July 5th, 2020

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

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

REVISIONS
1 PLAN REVIEW 01.24.2020

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

SHEET: E1.15

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MFIA PANEL SCHEDULE

panel		mounting		location BLDG 'B'		connected load amps
E1		SURFACE		2nd Flr Rm 292		63
voltage		phase		bus & main		calculated load amps
120/208V		3		100A (SCCR: 22K) MLO		68

C	service	va	a/p	no.	a b c	no.	a/p	va	service	C
	SPARE	0	20/1	1	*	2	20/1	1500	SMOKE DAMPERS – FLR 1 & 2	5
1	LIGHTS – BLDG EXTERIOR	500	20/1	3	*	4	20/1	1500	SMOKE DAMPERS – FLR 3 & 4	5
1	LIGHTS – STAIR 1	500	20/1	5	*	6	20/1	1500	SMOKE DAMPERS – FLR 5 & 6	5
1	LIGHTS – STAIR 2	500	20/1	7	*	8	20/1	1500	ELEVATOR PIT LTS & PLUGS	2
1	LIGHTS – FLR 1	1200	20/1	9	*	10	20/1	1500	ELEVATOR CAB LIGHTS	1
1	LIGHTS – FLR 2 & 3	1232	20/1	11	*	12	20/1	1500	ELEVATOR CONTROLLER (OPT)	5
1	LIGHTS – FLR 4 & 5	1232	20/1	13	*	14	20/1	1176	ELEVATOR RELIEF VENT	6
1	LIGHTS – FLR 6	616	20/1	15	*	16	20/1	1176	SP–1 (ELEVATOR PIT)	6
5	SMOKE CURTAIN	1500	20/1	17	*	18	20/1	500	GENERATOR BLOCK HEATER	3
5	SMOKE CURTAIN	1500	20/1	19	*	20	20/1	500	GENERATOR BATTERY CHARGER	5
	SPARE	0	20/1	21	*	22	20/1	0	SPARE	
5	FACP	500	20/1	23	*	24	20/1	0	SPARE	
5	DAS	500	20/1	25	*	26	20/1	0	SPARE	
5	GENERATOR ANNUNCIATOR	500	20/1	27	*	28	20/1	0	SPARE	
	BLANK			29	*	30			BLANK	
	BLANK			31	*	32			BLANK	
	BLANK			33	*	34			BLANK	
	BLANK			35	*	36			BLANK	
	BLANK			37	*	38			BLANK	
	BLANK			39	*	40			BLANK	
	BLANK			41	*	42			BLANK	

Phase A	8408 VA	NOTES:	line–line voltage
Phase B	6992 VA		208
Phase C	7232 VA		largest motor (va)
Total Connected	22632 VA		0

load code:	ph. A	ph. B	ph. C		total	factor	calculated load (va)
1. LIGHTS=	1732	3816	1732	VA	7280	1.25	9100
2. RECEPT.=	1500	0	0	VA	1500	1 + 0.5	1500
3. HEATING=	0	0	500	VA	500	1.00	500
4. KITCHEN=	0	0	0	VA	0	1.00	0
5. EQUIP.=	4000	2000	5000	VA	11000	1.00	11000
6. MOTORS=	1176	1176	0	VA	2352	*	2352
7. MISC=	0	0	0	VA	0	1.00	0
(* 125% of the largest motor + 100% of the balance)					TOTAL =		24452

MFIA PANEL SCHEDULE

panel		mounting		location BLDG 'B'		connected load amps
H1		SURFACE		FLR 1 RM 198		113
voltage		phase		bus & main		calculated load amps
120/208V		3		250A (SCCR: 22K) MLO		104

C	service	va	a/p	no.	a b c	no.	a/p	va	service	C
1	LIGHTS – SITE/PARKING	1440	20/1	1	*	2	20/1	900	RECEPT – FLR 1	2
1	LIGHTS – BLDG EXTERIOR	500	20/1	3	*	4	20/1	900	RECEPT – FLR 1 (E. LOBBY)	2
1	LIGHTS – FLR 1 (LOBBY)	1032	20/1	5	*	6	20/1	1500	RECEPT – FLR 1 (OFFICE)	2
1	LIGHTS – FLR 1 (CORRIDOR)	267	20/1	7	*	8	20/1	1500	RECEPT – FLR 1 (PKG SYSTEM)	2
1	LIGHTS – FLR 1 (BOH)	1169	20/1	9	*	10	20/1	1080	RECEPT – FLR 1	2
1	LIGHTS – UNIT ENTRIES	500	20/1	11	*	12	20/1	1080	RECEPT – FLR 1	2
1	LIGHTS – FLR 2 & 3	698	20/1	13	*	14	20/1	1260	RECEPT – FLR 1 (W. LOBBY)	2
5	BUILDING SIGNS	1500	20/1	15	*	16	20/1	1500	RECEPT – FLR 1 (FITNESS)	2
5	DRINKING FOUNTAIN	1500	20/1	17	*	18	20/1	1500	RECEPT – FLR 1 (FITNESS)	2
5	UNIT ENTRY SYSTEM	1500	20/1	19	*	20	20/1	1500	RECEPT – FLR 1 (FITNESS)	2
2	RECEPT – FLR 2	1080	20/1	21	*	22	20/1	1500	RECEPT – FLR 1 (FITNESS)	2
2	RECEPT – FLR 3	1080	20/1	23	*	24	20/1	1500	AUTO DOORS	5
3	EH–2 (N. STAIR)	500	20/1	25	*	26	20/1	500	PHONE BOARD	5
3	EH–2 (S. STAIR)	500	20/1	27	*	28	20/1	500	COMMUNICATIONS BOARD	5
3	EH–4 (RISER)	500	20/1	29	*	30	20/1	500	ACCESS CONTROLS	5
5	A/V SYSTEM	1500	20/1	31	*	32	20/1	1500	RECEPT – MAINT. RM	2
5	FIREPLACE	500	20/1	33	*	34	20/1	1500	RECEPT – SECURITY	2
1	LTS & PLUGS (TEMP)	1500	20/1	35	*	36	20/1	1500	WALL FANS – FITNESS RM	5
	BLANK			37	*	38	20/1	1500	WALL FANS – FITNESS RM	5
	BLANK			39	*	40	20/1		SPARE	
	BLANK			41	*	42	20/1		SPARE	

Phase A	14565 VA	NOTES:	line–line voltage
Phase B	12229 VA		208
Phase C	13692 VA		largest motor (va)
Total Connected	40486 VA		0

load code:	ph. A	ph. B	ph. C		total	factor	calculated load (va)
1. LIGHTS=	2405	1669	3032	VA	7106	1.25	8883
2. RECEPT.=	6660	7560	5160	VA	19380	1 + 0.5	14690
3. HEATING=	500	500	500	VA	1500	1.00	1500
4. KITCHEN=	0	0	0	VA	0	1.00	0
5. EQUIP.=	5000	2500	5000	VA	12500	1.00	12500
6. MOTORS=	0	0	0	VA	0	*	0
7. MISC=	0	0	0	VA	0	1.00	0
(* 125% of the largest motor + 100% of the balance)					TOTAL =		37573

MFIA PANEL SCHEDULE

panel		mounting		location BLDG 'B'		connected load amps
M1		SURFACE		ELECT. RM 198		122
voltage		phase		bus & main		calculated load amps
120/208V		3		250A (SCCR: 22K) MLO		122

C	service	va	a/p	no.	a b c	no.	a/p	va	service	C
6	TRASH COMPACTOR	2100	40/3	1	*	2	50/3	3864	BP–1	6
6	*	2100	*	3	*	4	*	3864	*	6
6	*	2100	*	5	*	6	*	3864	*	6
6	TRASH COMPACTOR	2100	40/3	7	*	8	20/3	1356	FC–1	6
6	*	2100	*	9	*	10	*	1356	*	6
6	*	2100	*	11	*	12	*	1356	*	6
3	WH–1,2 (GAS)	600	20/1	13	*	14	20/1	600	WH–3,4 (GAS)	3
6	RP–1	1176	20/1	15	*	16	20/1	1176	RP–2	6
5	EV CHARGING (FUTURE)		40/2	17	*	18	20/1	0	SPARE	
5	*		*	19	*	20	20/1	0	SPARE	
5	*		*	21	*	22	20/1	0	SPARE	
5	EV CHARGING (FUTURE)		40/2	23	*	24	20/1	0	SPARE	
5	*		*	25	*	26	20/3	1500	EH–5 (BIKE RM)	3
5	*		*	27	*	28	*	1500	*	3
5	EV CHARGING (FUTURE)		40/2	29	*	30	*	1500	*	3
5	*		*	31	*	32	20/3	1500	EH–5 (TRASH RM)	3
5	*		*	33	*	34	*	1500	*	3
	SPARE	0	20/1	35	*	36	*	1500	*	3
	SPARE	0	20/1	37	*	38	20/1	135	EF–4	6
3	EH–3 (TEMP)	1500	20/2	39	*	40	20/1	0	SPARE	
3	*	1500	*	41	*	42	20/1	0	SPARE	

Phase A	13755 VA	NOTES:	line–line voltage
Phase B	16272 VA		208
Phase C	13920 VA		largest motor (va)
Total Connected	43947 VA		0

load code:	ph. A	ph. B	ph. C		total	factor	calculated load (va)
1. LIGHTS=	0	0	0	VA	0	1.25	0
2. RECEPT.=	0	0	0	VA	0	1 + 0.5	0
3. HEATING=	4200	4500	4500	VA	13200	1.00	13200
4. KITCHEN=	0	0	0	VA	0	1.00	0
5. EQUIP.=	0	0	0	VA	0	1.00	0
6. MOTORS=	9555	11772	9420	VA	30747	*	30747
7. MISC=	0	0	0	VA	0	1.00	0
(* 125% of the largest motor + 100% of the balance)					TOTAL =		43947

MFIA PANEL SCHEDULE

panel		mounting		location BLDG 'B'		connected load amps
M2		SURFACE		FLR 5 RM 592		175
voltage		phase		bus & main		calculated load amps
120/208V		3		250A (SCCR: 22K) MLO		175

C	service	va	a/p	no.	a b c	no.	a/p	va	service	C
1	LIGHTS – FLR 4 & 5	698	20/1	1	*	2	20/1	1080	RECEPT – FLR 4	2
1	LIGHTS – FLR 6	349	20/1	3	*	4	20/1	1080	RECEPT – FLR 5	2
6	EF–5	696	20/1	5	*	6	20/1	1080	RECEPT – FLR 6	2
6	IAC/OAC–1	2912	30/3	7	*	8	30/3	2912	IAC/OAC–2	6
6	*	2912	*	9	*	10	*	2912	*	6
	SPARE	0	20/1	11	*	12	20/1	1080	RECEPT – ROOF	2
	SPARE	0	20/1	13	*	14	50/3	3816	HP–1	6
	SPARE	0	20/1	15	*	16	*	3816	*	6
	SPARE	0	20/1	17	*	18	*	3816	*	6
6	RTU–1	4920	50/3	19	*	20	30/3	3600	RTU–2	6
6	*	4920	*	21	*	22	*	3600	*	6
6	*	4920	*	23	*	24	*	3600	*	6
6	EF–8	1176	20/1	25	*	26	20/2	718	EF–12	6
6	EF–9	718	20/2	27	*	28	*	718	*	6
6	*	718	*	29	*	30	20/1	1176	EF–13	6
6	EF–10	1176	20/1	31	*	32	20/1	500	EF–7	6
6	EF–11	1176	20/1	33	*	34			BLANK	
	BLANK			35	*	36			BLANK	
	BLANK			37	*	38			BLANK	
	BLANK			39	*	40			BLANK	
	BLANK			41	*	42			BLANK	

Phase A	23508 VA	NOTES:	line–line voltage
Phase B	22201 VA		208
Phase C	17086 VA		largest motor (va)
Total Connected	62795 VA		0

load code:	ph. A	ph. B	ph. C		total	factor	calculated load (va)
1. LIGHTS=	698	349	0	VA	1047	1.25	1309
2. RECEPT.=	1080	1080	2160	VA	4320	1 + 0.5	4320
3. HEATING=	0	0	0	VA	0	1.00	0
4. KITCHEN=	0	0	0	VA	0	1.00	0
5. EQUIP.=	0	0	0	VA	0	1.00	0
6. MOTORS=	21730	20772	14926	VA	57428	*	57428
7. MISC=	0	0	0	VA	0	1.00	0
(* 125% of the largest motor + 100% of the balance)					TOTAL =		63057

1 / E1.16 BUILDING 'B' PANEL SCHEDULES
SCALE: NONE

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ROBERT L. CONNELL — STATE OF WASHINGTON — 10053 — REGISTERED PROFESSIONAL ENGINEER

EXPIRES: July 5th, 2020

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

REVISIONS

1 PLAN REVIEW 01.24.2020

AEGIS MIXED-USE DEVELOPMENT

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DWELLING UNIT LOAD CALCULATION

Project: Aegis I

Unit Type: Studio

Area: 540 square feet(average)

Minimum Size Feeder (NEC 220.40):		
General lighting load at 3 VA / SF	1,620	VA
Small Appliance load (2 ckts at 1500VA each)	3,000	VA
Laundry Load (1 ckt at 1500VA)	1,500	VA
Range (GAS)	8,000	VA
Other Cooking Appliance Load (Microwave Oven)	1,500	VA
Dishwasher Load	1,200	VA
Electric Dryer Load	3,500	VA
Electric Water Heater Load	0	VA
Disposal load	900	VA
Other motor loads	0	VA
Total "General Loads"	21,220	VA
First 10 kVA of "general loads" at 100%	10,000	VA
Remainder of "general loads" at 40%	4,488	VA
Net "general load"	14,488	VA
Largest of: 3,500 VA of electric space heating (less than 4) at 65%	2,275	VA
-or- VA of electric space heating (4 or more) at 40%	0	VA
-or- VA of air conditioning/cooling/heat pumps at 100%	0	VA
TOTAL LOAD	16,763	VA
For 120/208-volt, 4-wire, three-phase service or feeder, 16,763 VA / 208 volts =	81	Amps

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

MFIA CIRCUIT DIRECTORY — 11-Oct-19

Loadcenter Name LC-STUDIO (TYPICAL)	mounting RECESSED			location		
voltage 208/120	phase 1			bus & main 100A MLO		(SCCR: 22K)
service	o/p	no.	L1 L2	no.	o/p	service
LIGHTS-KITCHEN/LIVING	20/1(A)	1	*	2	20/1(A)	APPLIANCE CIRCUIT
LTS & RECEPT - BATH	20/1	3	*	4	20/1(A)	APPLIANCE CIRCUIT
RECEPT - LIVING	20/1(A)	5	*	6	20/1	REFRIGERATOR
RECEPT - LIVING	20/1(A)	7	*	8	20/1	MICRO/HOOD
SPARE	20/1	9	*	10	20/1	RANGE (GAS)
SPARE	20/1	11	*	12	20/1	SPARE
WASHER	20/1(G)	13	*	14	20/1	DISHWASHER (WHERE USED)
DRYER	40/2	15	*	16	20/1	DISPOSAL
*	*	17	*	18	20/2	HEAT
DRYER BOOSTER (OPT)	20/1	19	*	20	*	*
WATER METER	20/1	21	*	22	20/1	SPARE
SMART PANEL	20/1	23	*	24	20/1	SPARE
BLANK	-----	25	*	26	20/1	SPARE
BLANK	-----	27	*	28	-----	BLANK
BLANK	-----	29	*	30	-----	BLANK

NOTES:
1. (A) DENOTES: ARC-FAULT INTERRUPTER CIRCUIT BREAKER. INSTALL PER NEC 210.12

2. LOADS FOR THIS PANEL ARE INDICATED ON THE "DWELLING UNIT LOAD CALCULATION".

3. BREAKER & WIRE SHALL BE SIZED FOR EQUIPMENT INSTALLED.

4. (G) DENOTES GFCI RATED BREAKER.

DWELLING UNIT LOAD CALCULATION

Project: Aegis I

Unit Type: 1Bedroom

Area: 750 square feet(average)

Minimum Size Feeder (NEC 220.40):		
General lighting load at 3 VA / SF	2,250	VA
Small Appliance load (2 ckts at 1500VA each)	3,000	VA
Laundry Load (1 ckt at 1500VA)	1,500	VA
Range (GAS)	8,000	VA
Other Cooking Appliance Load (Microwave Oven)	1,500	VA
Dishwasher Load	1,200	VA
Electric Dryer Load	3,500	VA
Electric Water Heater Load	0	VA
Disposal load	900	VA
Other motor loads	0	VA
Total "General Loads"	21,850	VA
First 10 kVA of "general loads" at 100%	10,000	VA
Remainder of "general loads" at 40%	4,740	VA
Net "general load"	14,740	VA
Largest of: 5,000 VA of electric space heating (less than 4) at 65%	3,250	VA
-or- VA of electric space heating (4 or more) at 40%	0	VA
-or- VA of air conditioning/cooling/heat pumps at 100%	0	VA
TOTAL LOAD	17,990	VA
For 120/208-volt, 4-wire, three-phase service or feeder, 17,990 VA / 208 volts =	86	Amps

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

MFIA CIRCUIT DIRECTORY — 11-Oct-19

Loadcenter Name LC-1BR (TYPICAL)	mounting RECESSED			location		
voltage 208/120	phase 1			bus & main 100A MLO		(SCCR: 22K)
service	o/p	no.	L1 L2	no.	o/p	service
LIGHTS-KITCHEN/LIVING	20/1(A)	1	*	2	20/1(A)	APPLIANCE CIRCUIT
LTS & RECEPT - BATH	20/1	3	*	4	20/1(A)	APPLIANCE CIRCUIT
LTS & RECEPT - BEDROOM	20/1(A)	5	*	6	20/1	REFRIGERATOR
RECEPT - LIVING	20/1(A)	7	*	8	20/1	MICRO/HOOD
SPARE	20/1(A)	9	*	10	20/1	RANGE (GAS)
SPARE	20/1(A)	11	*	12	20/1	SPARE
WASHER	20/1(G)	13	*	14	20/1	DISHWASHER (WHERE USED)
DRYER	40/2	15	*	16	20/1	DISPOSAL
*	*	17	*	18	20/2	HEAT
WATER METER	20/1	19	*	20	*	*
DRYER BOOSTER (OPT)	20/1	21	*	22	20/2	HEAT
SMART PANEL	20/1	23	*	24	*	*
BLANK	-----	25	*	26	20/1	SPARE
BLANK	-----	27	*	28	-----	BLANK
BLANK	-----	29	*	30	-----	BLANK

NOTES:
1. (A) DENOTES: ARC-FAULT INTERRUPTER CIRCUIT BREAKER. INSTALL PER NEC 210.12

2. LOADS FOR THIS PANEL ARE INDICATED ON THE "DWELLING UNIT LOAD CALCULATION".

3. BREAKER & WIRE SHALL BE SIZED FOR EQUIPMENT INSTALLED.

4. (G) DENOTES GFCI RATED BREAKER.

DWELLING UNIT LOAD CALCULATION

Project: Aegis I

Unit Type: 2Bedroom

Area: 985 square feet(average)

Minimum Size Feeder (NEC 220.40):		
General lighting load at 3 VA / SF	2,955	VA
Small Appliance load (2 ckts at 1500VA each)	3,000	VA
Laundry Load (1 ckt at 1500VA)	1,500	VA
Range (GAS)	8,000	VA
Other Cooking Appliance Load (Microwave Oven)	1,500	VA
Dishwasher Load	1,200	VA
Electric Dryer Load	3,500	VA
Electric Water Heater Load	0	VA
Disposal load	900	VA
Other motor loads	0	VA
Total "General Loads"	22,555	VA
First 10 kVA of "general loads" at 100%	10,000	VA
Remainder of "general loads" at 40%	5,022	VA
Net "general load"	15,022	VA
Largest of: 5,500 VA of electric space heating (less than 4) at 65%	3,575	VA
-or- VA of electric space heating (4 or more) at 40%	0	VA
-or- VA of air conditioning/cooling/heat pumps at 100%	0	VA
TOTAL LOAD	18,597	VA
For 120/208-volt, 4-wire, three-phase service or feeder, 18,597 VA / 208 volts =	89	Amps

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

MFIA CIRCUIT DIRECTORY — 14-Oct-19

Loadcenter Name LC-2BR (TYPICAL)	mounting RECESSED			location		
voltage 208/120	phase 1			bus & main 100A MLO		(SCCR: 22K)
service	o/p	no.	L1 L2	no.	o/p	service
LIGHTS-KITCHEN/LIVING	20/1(A)	1	*	2	20/1(A)	APPLIANCE CIRCUIT
LTS & RECEPT - BATH	20/1	3	*	4	20/1(A)	APPLIANCE CIRCUIT
RECEPT - LIVING	20/1(A)	5	*	6	20/1	REFRIGERATOR
RECEPT - LIVING	20/1(A)	7	*	8	20/1	MICRO/HOOD
LTS & RECEPT - BEDROOM	20/1(A)	9	*	10	20/1	RANGE (GAS)
LTS & RECEPT - BEDROOM	20/1(A)	11	*	12	20/1	SPARE
WASHER	20/1(G)	13	*	14	20/1	DISHWASHER
DRYER	40/2	15	*	16	20/1	DISPOSAL
*	*	17	*	18	50/2	HEAT
DRYER BOOSTER (OPT)	20/1	19	*	20	*	*
WATER METER (OPT)	20/1	21	*	22	20/2	HEAT
SMART PANEL	20/1	23	*	24	*	*
BLANK	-----	25	*	26	20/2	HEAT
BLANK	-----	27	*	28	*	*
BLANK	-----	29	*	30	-----	BLANK

NOTES:
1. (A) DENOTES: ARC-FAULT INTERRUPTER CIRCUIT BREAKER. INSTALL PER NEC 210.12.

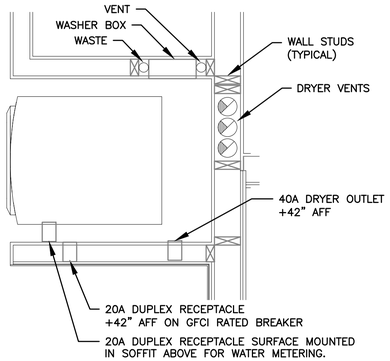
2. LOADS FOR THIS PANEL ARE INDICATED ON THE "DWELLING UNIT LOAD CALCULATION".

3. BREAKER & WIRE SHALL BE SIZED FOR EQUIPMENT INSTALLED.

4. (G) DENOTES GFCI RATED BREAKER.

TYPICAL RESIDENTIAL UNIT LOAD SUMMARY & LOAD CENTER SCHEDULES

1 / E1.17 — SCALE: NONE



NOTES:

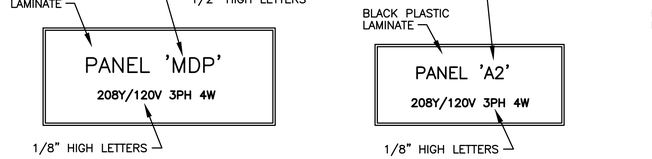
1. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE PLUMBING CONTRACTOR PRIOR TO ROUGH IN, TO ENSURE THAT ELECTRICAL DEVICES ARE NOT INSTALLED WHERE THEY WILL CREATE CONFLICT.

2. PREFERRED INSTALLATION SHALL HAVE THE ELECTRICAL DEVICES ON A WALL OPPOSITE THE WORK OF ANY OTHER TRADE.

3. COORDINATE WITH WATER METER INSTALLER FOR EXACT LOCATION OF DUPLEX RECEPTACLE, WHERE REQUIRED.

4. FIELD COORDINATE WITH ALL TRADES PRIOR TO ROUGH IN.

2 / E1.17 — TYPICAL WASHER/DRYER ALCOVE — NO SCALE



MAIN DISTRIB. PANEL LABELING — PANELBOARD LABELING — EMERGENCY POWER PANELBOARD LABELING

3 / E1.17 — SWITCHBOARD/PANEL LABELING DETAIL — NO SCALE

NOTE: ALL LETTERS ARE ENGRAVED WHITE

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EXPIRES: July 5th, 2020

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

REVISIONS

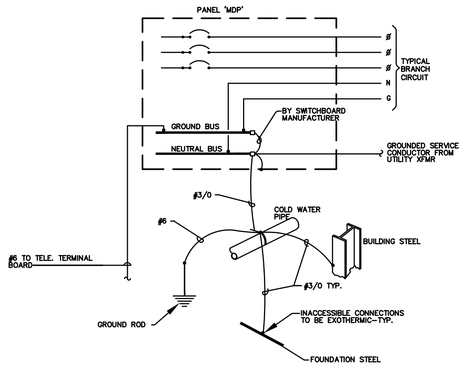
1 PLAN REVIEW 01.24.2020

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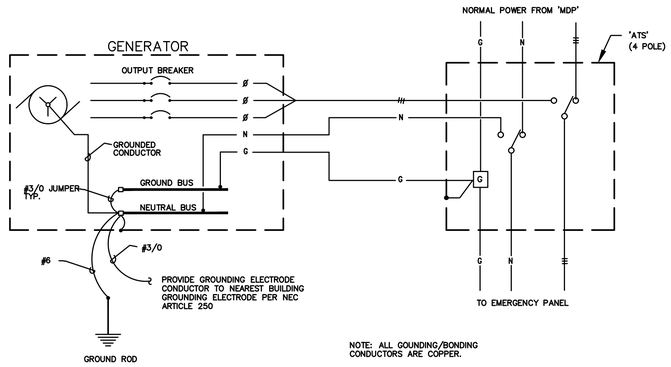
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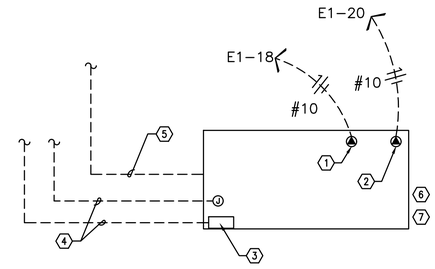
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1 E1.18 GROUNDING/BONDING DIAGRAM
208Y/120V, 3ø, 4 WIRE



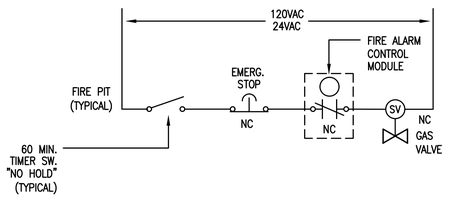
2 E1.18 GENERATOR – ELECTRICAL GROUNDING/BONDING DETAIL
NO SCALE

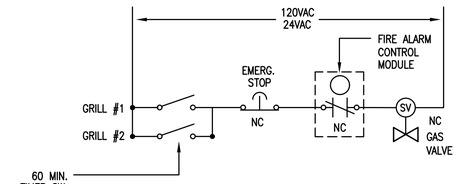


⚠1 3 E1.18 GENERATOR CIRCUITING DETAIL
NO SCALE

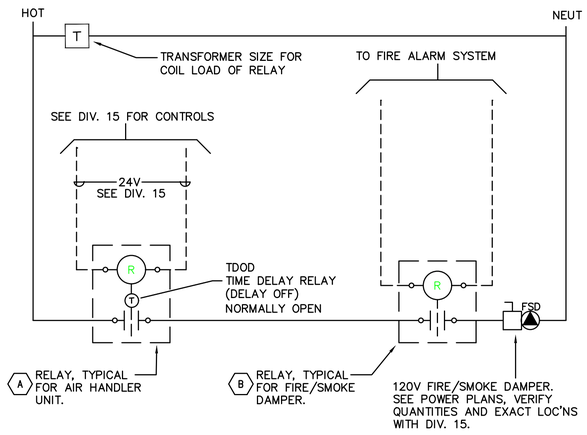
NOTES:

1. 120V GENERATOR BLOCK HEATER. PANEL E1 AT BUILDING 'B'.
2. 120V GENERATOR BATTERY CHARGER. PANEL E1 AT BUILDING 'B'.
3. GENERATOR OUTPUT BREAKER AND CONTROL SECTION. PANEL E1 AT BUILDING 'B'.
4. POWER AND CONTROL TO TRANSFER SWITCH AND REMOTE ANNUNCIATOR. SEE ONE-LINE DIAGRAM ON SHEET E1.11 & E1.14.
5. TO AUTOMATIC TRANSFER SWITCH.SEE E1.11 & E1.14.
6. DIESEL GENERATOR TO BE PROVIDED WITH DOUBLE-WALL FUEL TANK AND SPILL CONTAINMENT PER CITY OF PORTLAND REQUIREMENTS.
7. DIESEL GENERATOR TANK SHALL DOUBLE WALLED AND BE EQUIPPED WITH OVERFILL PROTECTION (AUTO SHUTOFF), 5 GALLON INFILL SPILL BUCKET WITH DRAIN BACK, 12FT ABOVE GRADE TANK FUME VENTING AND ONSITE PRESSURE TESTING PER CITY REQUIREMENTS.





⚠1 4 E1.18 ROOFTOP GAS APPLIANCE EMERGENCY SHUT-OFF DIAGRAM
SCALE: NONE



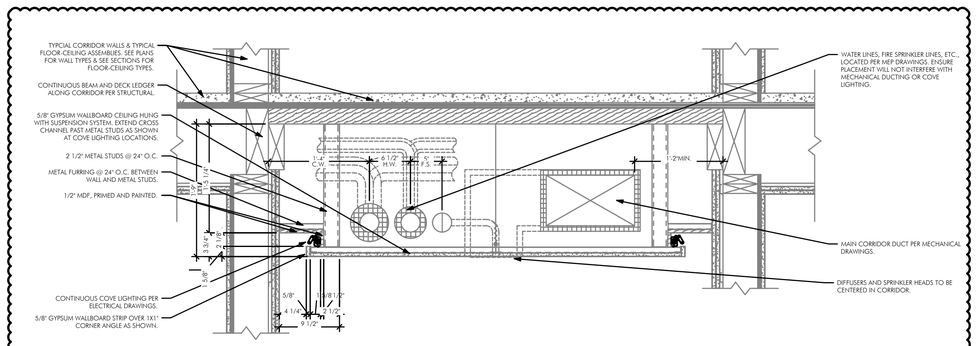
⚠1 5 E1.18 SMOKE/FIRE DAMPER CONTROL DIAGRAM
NO SCALE

ADDRESSABLE DETECTOR CONTROL

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

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

⚠1



6 E1.18 TYPICAL CORRIDOR CEILING SECTION
NO SCALE

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LIGHTING FIXTURE LIST

TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
A1 A1E	LED 3000K 2000LM/80CRI 25W	LITHONIA (OR APROVED OTHER)	ZL1N SERIES	TYPE :4' GEN. PURPOSE STRIP MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :DIFFUSED ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	TYPE 'AE' SIMILAR TO TYPE 'A' EXCEPT WITH EMERGENCY BATTERY BACK-UP EQUIP. RMS, TRASH RM, LEASE SPACE
A2	LED 3500K 3000LM/80CRI 23W	LITHONIA (OR APROVED OTHER)	FEML48 SERIES	TYPE :4' ENCLOSED INDUSTRIAL MOUNTING :SURFACE HOUSING :POLYCARBONATE LENS/REFL :CLEAR POLYCARBONATE VOLTAGE :MVOLT BALLAST :LED DRIVER	WALL MOUNT AT +7'-0" AFF IN ROOF TERRACE MECH. ROOM. ELEVATOR PIT & TOP OF SHAFT
B1 (2)	LED 3000K 2152LM/80CRI 18.7W	LITHONIA (OR APROVED OTHER)	WL4 20LP835 SERIES	TYPE :4' WRAP AROUND MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	PROVIDE WITH INTEGRAL OCCUPANCY SENSOR, DIM50 STANDBY MODE STAIRWELLS
B2	LED 3000K 3000LM/80CRI 20W	LITHONIA (OR APROVED OTHER)	CLXL48 SERIES	TYPE :4' WRAP AROUND MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :WIDE DIFFUSED VOLTAGE :MVOLT BALLAST :LED DRIVER	WIDE DISTRIBUTION STANDARD OUTPUT BIKE ROOM
B3	LED 3000K 3000LM/80CRI 28W	LITHONIA (OR APROVED OTHER)	CLXL36 SERIES	TYPE :3' WRAP AROUND MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :WIDE DIFFUSED VOLTAGE :MVOLT BALLAST :LED DRIVER	STANDARD OUTPUT ELEVATOR MACHINE ROOM
C1a/b (1) (3)	LED 3000K/90CRI 327LM/FT 2W/FT	ECOSENSE (OR APROVED OTHER)	TROV L35I SERIES	TYPE :LED COVE LIGHT MOUNTING :SURFACE (IN COVE) HOUSING :ALUMINUM LENS/REFL :CLEAR POLYCARBONATE/SNAP ON VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING-ELV)	C1a = 2FT LENGTH C1b = 4FT LENGTH CORRIDORS, LOBBY
C2	LED 650LM/80CRI 3000K 10W	LIGHTOLIER (OR APPROVED OTHER)	SSR SERIES	TYPE :5" DIA. DOWNLIGHT MOUNTING :SURFACE (J-BOX) HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING)	FINISH PER ARCHITECT. UL LISTED DAMP LOCATION RESTROOMS, DOG WASH
C3	LED 1000LM/80CRI 3000K 11W	LIGHTOLIER (OR APPROVED OTHER)	L4R SERIES	TYPE :4" DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :ACRYLIC/CLEAR DIFFUSE VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING)	IC RATED FINISH PER ARCHITECT. LOBBY, CORRIDORS
C4	LED 1500LM/80CRI 3000K 13W	LIGHTOLIER (OR APPROVED OTHER)	L5R SERIES	TYPE :5" DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :ACRYLIC/CLEAR DIFFUSE VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING)	IC RATED FINISH PER ARCHITECT. CORRIDORS
C5	LED 650LM/80CRI 3000K 8W	LIGHTOLIER (OR APPROVED OTHER)	L4RA SERIES	TYPE :4" DIA. ADJ.DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING)	IC RATED FIELD AIM PER ARCHITECT'S DIRECTION FINISH PER ARCHITECT. LOBBY, CORRIDOR
'X1'	LED (GREEN LETTERS) (1.5W)	LITHONIA DMF LIGHTING (OR APROVED OTHER)	LE EL N SERIES DLED500EM-G	TYPE :EXIT SIGN MOUNTING :UNIVERSAL HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE FACE/DUAL FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	
X2		NOT USED		TYPE : MOUNTING : HOUSING : LENS/REFL : VOLTAGE : BALLAST :	
'X3'	LED (GREEN LETTERS) (3.5W)	LITHONIA (OR APROVED OTHER)	WLTE EL SERIES BLACK FINISH	TYPE :EXIT SIGN MOUNTING :UNIVERSAL HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	UL LISTED WET LOCATION
'X4'	LED (GREEN LETTERS) (3.5W)	LITHONIA (OR APROVED OTHER)	LRE SERIES	TYPE :EXIT SIGN MOUNTING :RECESSED HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	MOUNTED CENTERED ABOVE DOOR UNLESS OTHERWISE NOTED.
'X5'	LED (GREEN LETTERS) (3.5W)	EATON (OR APROVED OTHER)	EUX SERIES	TYPE :EXIT SIGN MOUNTING :SURFACE HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	SURFACE MOUNT AT STOREFRONT MULLION
'X6'	LED (GREEN LETTERS) (3.5W)	EATON (OR APROVED OTHER)	EUX SERIES	TYPE :EXIT SIGN MOUNTING :SURFACE HOUSING :DIE-CAST ALUMINUM LENS/REFL :SINGLE/DOUBLE FACE VOLTAGE :MVOLT BALLAST :NICKLE CADMIUM BATTERY	SURFACE MOUNT AT CEILING

LIGHTING FIXTURE LIST - DECORATIVE

TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
LF1		NOT USED		TYPE : MOUNTING : HOUSING : LENS/REFL : VOLTAGE : BALLAST :	
LF2	LED 3000K/90CRI 5040LM 56W	KUZCO (OR APROVED OTHER)	EEREIE PR19347 SERIES	TYPE :LINEAR PENDANT MOUNTING :SUSPENDED HOUSING :ALUMINUM LENS/REFL :OPAL SILICON VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING/ELV)	FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR MAIL ROOMS
LF3		NOT USED		TYPE : MOUNTING : HOUSING : LENS/REFL : VOLTAGE : BALLAST :	
LF4	LED 3000K 850LM/90CRI 9W	USAI LIGHTING (OR APROVED OTHER)	B3RDM SERIES	TYPE :3" DIA DOWNLIGHT MOUNTING :RECESSED HOUSING :STEEL LENS/REFL :SOLITE VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING)	45 DEGREE BEAM SPREAD PROVIDE WITH USAI POWER SUPPLY BLACK BEVEL TRIM & MILLWORK FLANGE IC RATED BLDG A COFFEE BAR
LF5	(8) JCD/C9 LED 3000K/80CRI 24W	ARTCRAFT LIGHTING (OR APROVED OTHER)	AVENTURA SERIES	TYPE :LARGE PENDANT MOUNTING :SUSPENDED HOUSING : LENS/REFL : VOLTAGE :120V BALLAST :LED DRIVER (0/10 DIMMING)	FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR BLDG B LOBBY
LF6	(1) LED LAMP (MED. BASE) 3000K/80CRI 8W	SUN VALLEY BRONZE (OR APROVED OTHER)	HUDPEND-2000 SERIES	TYPE :SMALL PULLEY PENDANT MOUNTING :SUSPENDED HOUSING :UNKNOWN LENS/REFL :N/A VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING)	BLACK PATINE FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR. BLDG B LOUNGE
LF7	(1) G9 LED 3000K 220LM/80CRI 4W	ANDLight (OR APROVED OTHER)	ORB-P SERIES	TYPE :PENDANT MOUNTING :SUSPENDED HOUSING :STEEL WIRE LENS/REFL :ETCHED GLASS VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING)	BLACK FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR RESTROOM
LF8	(3) LED LAMPS (MED. BASE) 3000K/80CRI 225W	TROY LIGHTING (OR APROVED OTHER)	HENDRIX F6886 SERIES	TYPE :CHANDELIER MOUNTING :SUSPENDED HOUSING :UNKNOWN LENS/REFL :N/A VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING)	BLACK IRON FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR BLDG A CLUBROOM
LF9	(1) GU10 LED 3000K/80CRI 9W	RESTORATION HARDWARE (OR APROVED OTHER)	ORBITER II 68830997 SERIES	TYPE :SCONCE MOUNTING :SURFACE HOUSING :UNKNOWN LENS/REFL :N/A VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING)	BRONZE FINISH PER MOUNTING HEIGHT PER INTERIOR DECORATOR BLDG A CLUBROOM
LF10		NOT USED		TYPE : MOUNTING : HOUSING : LENS/REFL : VOLTAGE : BALLAST :	
LF11	LED 3000K/90CRI 780LM 13W	KUZCO LIGHTING (OR APROVED OTHER)	WS83218 SERIES	TYPE :SCONCE MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :OPAL GLASS VOLTAGE :120V BALLAST :LED DRIVER (DIMMING)	VERIFY ADA COMPLIANT BLACK FINISH PER INTERIOR DECORATOR MOUNTING HEIGHT PER INTERIOR DECORATOR TYPICAL UNIT ENTRY
LF12 (8)	LED 3000K/80CRI 750LM/FT 14W/FT	NULITE (OR APROVED OTHER)	RP14-B-FF SERIES	TYPE :8FT DIRECT/INDIRECT LINEAR MOUNTING :SUSPENDED HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (0-10 DIMMING)	60% DOWN-40% UP DISTRIBUTION MOUNT AT 10FT AFF TO BOTTOM OF FIXTURE. STANDARD WHITE FINISH BIKE ROOMS BLDG B FITNESS ROOM
LF13		NOT USED		TYPE : MOUNTING : HOUSING : LENS/REFL : VOLTAGE : BALLAST :	
LF14	LED 3000K/80CRI 1300LM 16W	KUZCO (OR APROVED OTHER)	FM11410 SERIES	TYPE :9" DIA DOWNLIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYYLIC VOLTAGE :120V BALLAST :LED DRIVER (0-10 DIMMING/ELV)	BLACK FINISH PER INTERIOR DECORATOR BLDG A WOOD CEILINGS
LF15		NOT USED		TYPE : MOUNTING : HOUSING : LENS/REFL : VOLTAGE : BALLAST :	
LF16	(1) G9 LED (WEDGE BASE) 3000K/80CRI 13W	HUDSON VALLEY LIGHTING (OR APROVED OTHER)	68701-AGB SERIES	TYPE :WALL SCONCE MOUNTING :SURFACE HOUSING :ALUMINUM LENS/REFL :GLASS VOLTAGE :120V BALLAST :LED DRIVER (DIMMING)	FINISH PER INTERIOR DECORATOR. MOUNTING HEIGHT PER INTERIOR DECORATOR. BLDG A LOBBY, CLUB RM/BLDG B LOBBY

GENERAL NOTES:

A. ALL LIGHT FIXTURES SHALL HAVE ENERGY EFFICIENT LAMPING AND BALLASTS.

B. LIGHT FIXTURES FOR LIVING UNITS SHALL BE "ENERGY STAR" RATED.

C. EXTERIOR LIGHT FIXTURES SHALL BE "NIGHT SKY" FRIENDLY.

D. VERIFY ALL FIXTURE FINISHES WITH ARCHITECT PRIOR TO BID.

E. VERIFY ALL FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO BID.

F. VERIFY ALL FIXTURE LOCATIONS WITH ARCHITECT PRIOR TO ROUGH IN.

G. ALL INTERIOR LIGHTING SHALL BE 3000 KELVIN UNLESS OTHERWISE NOTED.

H. ALL PRODUCT SUBSTITUTIONS AND VALUE ENGINEERING SHALL BE SUBMITTED DURING BID PHASE, SHALL MEET DESIGN INTENT AND IS SUBJECT TO OWNER APPROVAL.

I. CONTRACTOR SHALL CONSULT MANUFACTURER INSTALLATION INSTRUCTIONS FOR ALL FIXTURES AND DEVICES AND INSTALL AS INSTRUCTED. THIS INCLUDES ALL ELECTRICAL COMPONENTS REQUIRED FOR COMPLETE INSTALLATION. WORK SHALL BE PERFORMED SUCH THAT MANUFACTURER WARRANTY IS NOT VOIDED.

J. THE ELECTRICAL CONTRACTOR SHALL CONSULT THE INTERIOR DESIGN PLAN SET FOR ALL FINISHES, MOUNTING HEIGHTS AND OTHER INSTALLATION REQUIREMENTS REGARDING THE "LF" LIGHT FIXTURES LISTED IN THE FIXTURE SCHEDULE ON THIS SHEET.

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

⬡ KEYED LIGHTING NOTES:

1. CONTRACTOR TO DETERMINE FIXTURE LENGTH BASED ON ARCHITECTURAL REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING PLANS. DESIGN INTENT IS FOR THE FIXTURE TO RUN THE ENTIRE LENGTH OF THE "COVE" TO PROVIDE EVEN LIGHT DISTRIBUTION.
2. STAIRWELL AND BOH CORRIDOR LIGHT FIXTURES TO BE EQUIPPED WITH FACTORY INSTALLED (OR REMOTE) OCCUPANCY SENSORS FOR MIN. 50% LIGHT REDUCTION DURING PERIODS OF NO ACTIVITY.
3. MAXIMUM RUN LENGTH FOR SPECIFIED COVE LIGHT FIXTURE IS (186) 4FT UNITS. MULTIPLE RUNS SHALL BE CIRCUITED AS NOTED ON THE PLANS. CONTRACTOR SHALL PROVIDE THE APPROPRIATE MOUNTING AND CONNECTING HARDWARE PER MANUFACTURER'S REQUIREMENTS. CONSULT VENDOR FOR ADDITIONAL INSTALLATION INFORMATION.
4. CONSULT INTERIOR DESIGN AND ARCHITECTURAL PLANS FOR THE EXACT NUMBER OF POWER CONNECTIONS FOR THE LF1 LIGHT FIXTURE AND COORDINATE WITH THE FIXTURE INSTALLER FOR EXACT LOCATION OF WIRING CONNECTION POINTS, PRIOR TO ROUGH IN.
5. CONTRACTOR TO PROVIDE SINGLE POLE DIMMER SWITCHES AS INDICATED ON SHEETS E4.01-E4.03. DIMMER SWITCHES SHALL MATCH THE DECORATOR TYPE ROCKER SWITCH SPECIFIED IN THE TYPICAL UNIT LIGHTING PLANS OR AS DIRECTED BY THE OWNER. DIMMER SWITCHES SHALL BE COMPATIBLE WITH THE LED LIGHT FIXTURES AND SHALL BE FULLY ADJUSTABLE. CONTRACTOR SHALL FIELD ADJUST TO REDUCE ANY MOMENTARY FLASH DURING START UP.
6. PROVIDE BLOCKING AT CEILING TO SUPPORT 35LB., MINIMUM, FOR CEILING FAN INSTALLATION. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. PROVIDE FIXTURE CONTROL SWITCH(ES) AS DIRECTED BY MANUFACTURER.
7. PROVIDE WITH WEATHER PROOF J-BOX FOR SOIL CONTACT.
8. VERIFY MOUNTING HEIGHT OF FIXTURES IS NOT IN CONFLICT WITH ROOM EQUIPMENT.

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DATE: 11/06/2019

REVISIONS

1 PLAN REVIEW 01.24.2020

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SHEET:
E1.21

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LIGHTING FIXTURE LIST – SITE & EXTERIOR

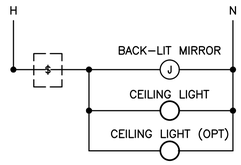
TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
LS1 ⟨7⟩	LED 3000K 100LM 3W	DALS LIGHTING (OR APROVED OTHER)	LEDSTEP005D SERIES	TYPE :STEP LIGHT (+10" AFF) MOUNTING :RECESSED HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :120V BALLAST :LED DRIVER (DIMMING)	VERIFY UL LISTED FOR WET LOCATION FINISH PER ARCHITECT. VERIFY EXACT LOCATION WITH LANDSCAPE DESIGNER PRIOR TO ROUGH IN. ROOF TERRACE
LS2	LED 3000K 500LM/FT 5W/FT	JESCO LIGHTING (OR APROVED OTHER)	DL–AC–FLEX SERIES	TYPE :LED COVE LIGHT MOUNTING :SURFACE (CHANNEL) HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :120V BALLAST :LED DRIVER (DIMMING)	MOUNT UNDER COUNTER TOP EDGE. VERIFY EXACT LENGTH BEFORE ORDERING. VERIFY EXACT LOCATION WITH LANDSCAPE DESIGNER PRIOR TO ROUGH IN. UL LISTED FOR WET LOCATION ROOF TERRACE
⚠1 LS3		HALCO LIGHTING (OR APPROVED OTHER)	DSL/26124M SERIES	TYPE :EXTERIOR CAFE STRING LIGHTS MOUNTING : HOUSING : LENS/REFL : VOLTAGE : BALLAST :	FIXTURE PROVIDED AND INSTALLED BY OTHERS. ROOF TERRACE
⚠1 S1	LED 3000K 3640 LM 57W	ARCHITECTRUAL AREA LIGHTING (OR APROVED OTHER)	SP1 SERIES	TYPE :AREA LIGHT MOUNTING :POLE MOUNT (+18'–0") HOUSING : LENS/REFL : VOLTAGE :MVOLT BALLAST :LED DRIVER	TYPE V DISTRIBUTION PROVIDE W/ HOUSE SIDE SHIELD WHERE NEEDED INTEGRAL PHOTOCELL PARKING AREA, DRIVE LANE
⚠1 S2	LED 3000K 5500LM 49W	LITHONIA LIGHTING (OR APROVED OTHER)	DSXO P2 SERIES	TYPE :AREA LIGHT (TWIN HEAD) MOUNTING :POLE MOUNT (+20'–0") HOUSING : LENS/REFL : VOLTAGE :MVOLT BALLAST :LED DRIVER	TYPE III MEDIUM DISTRIBUTION INTEGRAL PHOTOCELL PARKING AREA
S3	LED 3000K 300LM 22W	WAC LIGHTING (OR APROVED OTHER)	DS–WD05–U SERIES	TYPE :EXTERIOR SCONCE MOUNTING :SURFACE (+7'–0" AFG) HOUSING :ALUMINUM LENS/REFL :TEMPERED GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER	UP/DOWN BEAM UL LISTED WET LOCATION MAIN BUILDING ENTRANCES
⚠1 S3a	LED 3000K 975LM 14W	USAI LIGHTING (OR APROVED OTHER)	EVELED 1020 SERIES	TYPE :4.5" DIA. DOWNLIGHT MOUNTING :RECESSED HOUSING :ALUMINUM LENS/REFL :SOLITE VOLTAGE :MVOLT BALLAST :LED DRIVER	UL LISTED WET LOCATION CUSTOM FINISH TO MATCH METAL SOFFIT MAIN BUILDING ENTRANCES
S3b	LED 3000K 574LM 10W	LIGMAN LIGHTING (OR APROVED OTHER)	UMV30013 SERIES	TYPE :EXTERIOR SCONCE MOUNTING :SURFACE (+8'–0" AFG) HOUSING :ALUMINUM LENS/REFL :TEMPERED GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER	MEDIUM BEAM (TYPE M) FIXTURE SHALL BE DOWNLIGHT ONLY FIXTURES AT ROOF TERRACE MOUNT AT 6'–6" AFF. BUILDING EXTERIOR, ROOF TERRACE
S4	LED 3000K 1000LM 14W	LIGHTOLIER LIGHTING (OR APROVED OTHER)	S7R SERIES	TYPE :7" DIA. DOWNLIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	BLACK FINISH PER ARCHITECT UL LISTED WET LOCATION BUILDING EXTERIOR
S5	LED 3000K 2450LM 22W	GARDCO LIGHTING (OR APROVED OTHER)	PWS SERIES	TYPE :EXTERIOR WALL PACK MOUNTING :SURFACE (+8'–0") HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER	TYPE III DISTRIBUTION BUILDING SERVICE ENTRANCES
S6	LED 3000K 1000LM 15W	ALCON LIGHTING (OR APROVED OTHER)	11235 DIR–15 SERIES	TYPE :5" DIA EXTERIOR CYLINDER MOUNTING :SURFACE HOUSING :ALUMINUM LENS/REFL :CLEAR TEMPERED GLASS VOLTAGE :MVOLT BALLAST :LED DRIVER	60 DEGREE WIDE FLOOD UL LISTED WET LOCATION ROOF TERRACE
S7	LED 3500K 1000LM 10W	EMERGENSEE LIGHTING (OR APROVED OTHER)	SEEUE SERIES	TYPE :EXTERIOR EMERGENCY LIGHT MOUNTING :MULLION MOUNTED HOUSING :ALUMINUM LENS/REFL : VOLTAGE :MVOLT BALLAST :LED DRIVER	DARK BRONZE FINISH PER ARCHITECT UL LISTED WET LOCATION LEASE SPACE STOREFRONT

LIGHTING FIXTURE LIST – TYPICAL LIVING UNITS

TYPE	LAMP	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	OPTIONS
U1 ⟨5⟩	LED 650 LM 3000K 10W	LIGHTOLIER (OR APPROVED OTHER)	SSR SERIES	TYPE :5" DIA. DOWNLIGHT MOUNTING :SURFACE (J–BOX) HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :MVOLT BALLAST :LED DRIVER (DIMMING)	FINISH PER ARCHITECT. UNIT KITCHEN, HALL
U2	LED 750 LUMEN 3000K (18W)	KUZCO LIGHTING (OR APPROVED OTHER)	FM3511 SERIES	TYPE :11" DIA. CEILING LIGHT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :GLASS VOLTAGE :120V BALLAST :LED DRIVER	FINISH PER ARCHITECT. UNIT DINING
U3	LED 3000K 200LM 5W	WAC LIGHTING (OR APROVED OTHER)	HR–LED90 SERIES	TYPE :UNDER CABINET LIGHT MOUNTING :SURFACE HOUSING :ALUMINUM LENS/REFL :ACRYLIC VOLTAGE :24V BALLAST :LED DRIVER (ELV DIMMING)	FINISH PER ARCHITECT. UNIT KITCHEN
⚠1 U4 ⟨6⟩	(1) 18W LED 1400LM/90CRI 3000K 35W	FANTIMATION (OR APROVED OTHER)	HUGH 52 SERIES	TYPE :52" CEILING FAN W/ LIGHT KIT MOUNTING :SURFACE HOUSING :STEEL LENS/REFL :ACRYLIC VOLTAGE :120V BALLAST :LAMP W/INTEGRAL LED DRIVER	WHITE FINISH PROVIDE BRACING AT CEILING TO SUPPORT A MINIMUM OF 35 LBS. PROVIDE W/ MODEL #WC2WH CONTROL SWITCH UNIT BEDROOM

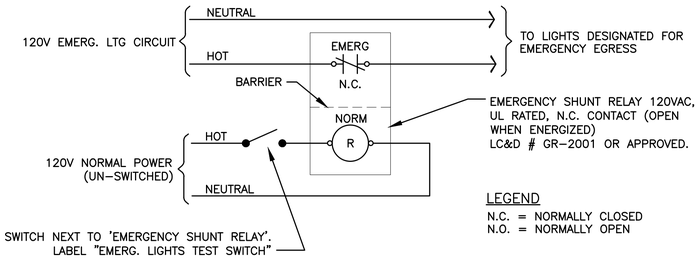
LIGHTING NOTES:

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

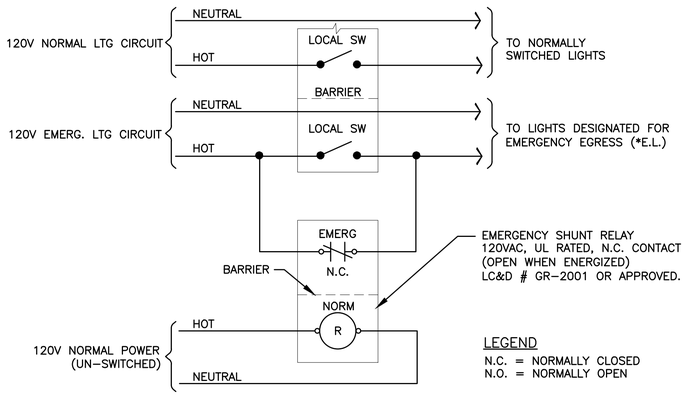


BATHROOM WITH CEILING LIGHT(S)
& BACK–LIT MIRROR

2 / E1.22 BATHROOM SWITCHING DIAGRAMS – TYPICAL
NO SCALE



3 / E1.22 EMERGENCY EGRESS LIGHTING – UNSWITCHED
NO SCALE



4 / E1.22 EMERGENCY EGRESS LIGHTING – SWITCHED
NO SCALE

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SHEET:
E1.22

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$_{Da}$ DIMMER SWITCH 'a': LOBBY & CORRIDOR C3 FIXTURES–NORMAL POWER CIRCUIT. CONTROL VIA TIMECLOCK.

$_{Db}$ DIMMER SWITCH 'b': LOBBY & CORRIDOR C1 & C3 FIXTURES–EMERG POWER CIRCUIT (REFER TO WIRING DETAIL 4, SHEET E1.22.). FIXTURES TO BE CONSTANT "ON" FOR NIGHT LIGHTING.

$_{Dc}$ DIMMER SWITCH 'c': EAST LOBBY LF14 FIXTURES. CONTROL VIA TIMECLOCK.

$_{Dd}$ DIMMER SWITCH 'd': MAIL ROOM LF2 FIXTURES. FIXTURES TO BE CONSTANT "ON".

$_{De}$ DIMMER SWITCH 'e': EAST LOBBY ACCENT LIGHTS LF4, LF16 & FIXTURES MENTIONED IN SHEET NOTES #9 & #12 IN SHEET E2.01. FIXTURES TO BE CONSTANT "ON".

$_{Df}$ DIMMER SWITCH 'f': WEST LOBBY ACCENT LIGHTS C5. FIXTURES TO BE CONSTANT "ON".

1 E1.23 BUILDING A – FIRST FLOOR LOBBY & CORRIDOR LIGHTING CONTROLS

NO SCALE

NOTES:
1. SWITCHES LOCATED IN FIRST FLOOR MAINTENANCE ROOM #192a.
2. BACK OF HOUSE CORRIDORS #191 & #194 TO BE CONSTANT "ON", WITH THE FIXTURES ON NORMAL POWER CONTROLLED VIA CEILING MOUNTED OCCUPANCY SENSOR TO REDUCE LIGHT LEVELS DURING PERIODS OF LOW ACTIVITY. SENSORS SHALL BE SET TO TURN OFF LIGHTS A MINIMUM OF 30 MINUTES UPON VACANCY OF THE SPACE.

$_{Da}$ DIMMER SWITCH 'a': CORRIDOR C1 COVE LIGHTS–EMERG POWER CIRCUIT, REFER TO WIRING DETAIL 4, SHEET E1.22. FIXTURES TO BE CONSTANT "ON".

$_{Db}$ DIMMER SWITCH 'b': ELEVATOR LOBBY LF14 LIGHTS–EMERG POWER CIRCUIT, REFER TO WIRING DETAIL 4, SHEET E1.22. FIXTURES TO BE CONSTANT "ON".

$_{c}$ NON–DIMMING SWITCH 'c': UNIT ENTRY LIGHTS–CONSTANT "ON".

$_{Dd}$ DIMMER SWITCH 'd': CORRIDOR C5 ACCENT LIGHTS–CONSTANT "ON".

$_{De}$ DIMMER SWITCH 'd': ELEVATOR C5 ACCENT LIGHTS–CONSTANT "ON".

2 E1.23 TYPICAL RESIDENTIAL FLOOR LIGHTING CONTROLS

TYPICAL FOR BUILDINGS A & B

NOTES:
1. SWITCHES LOCATED IN THE MAINTENANCE CLOSET AT EACH FLOOR.

$_{3a}$ NON–DIMMING SWITCH 'a': KITCHEN LIGHTS, OTHER THAN THOSE NOTED TO BE ON EGRESS POWER. PROVIDE ONE 3–WAY SWITCH AT ENTRY DOOR AND ONE IN THE KITCHEN AREA.

$_{Db}$ DIMMER SWITCH 'b': WALL SCONCES (LF9 & LF16), LARGE PENDANTS (LF8), & ADJUSTABLE DOWNLIGHTS (C5). PROVIDE WITH LOCKING COVER.

$_{Dc}$ DIMMER SWITCH 'c': CEILING LIGHTS (C3 & LF14). PROVIDE WITH LOCKING COVER.

3 E1.23 BUILDING A – FIFTH FLOOR CLUBROOM LIGHTING CONTROLS

NO SCALE

$_{Da}$ DIMMER SWITCH 'a': ELEVATOR LOBBY & CORRIDOR C3 LIGHTS–EMERG POWER CIRCUIT (REFER TO WIRING DETAIL 4, SHEET E1.22.). FIXTURES TO BE CONSTANT "ON" FOR NIGHT LIGHTING.

$_{Db}$ DIMMER SWITCH 'b': ELEVATOR LOBBY & CORRIDOR C3 LIGHTS–NORMAL POWER CIRCUIT. FIXTURES TO BE CONSTANT "ON"

4 E1.23 BUILDING A – SIXTH FLOOR LIGHTING CONTROLS

NO SCALE

NOTES:
1. SWITCHES LOCATED IN STORAGE ROOM #602.

$_{Da}$ DIMMER SWITCH 'a': LOBBY & CORRIDOR C3 FIXTURES–NORMAL POWER CIRCUIT. CONTROL VIA TIMECLOCK.

$_{Db}$ DIMMER SWITCH 'b': LOBBY & CORRIDOR C1, C3 & LF2 FIXTURES–EMERG POWER CIRCUIT (REFER TO WIRING DETAIL 4, SHEET E1.22.). FIXTURES TO BE CONSTANT "ON" FOR NIGHT LIGHTING.

$_{Dc}$ DIMMER SWITCH 'c': LOBBY C3, LF5 & LF14 FIXTURES. CONTROL VIA TIMECLOCK.

$_{Dd}$ DIMMER SWITCH 'd': LOBBY C5 LF6 FIXTURES. CONTROL VIA TIMECLOCK.

$_{De}$ DIMMER SWITCH 'e': MAIL ROOM LF2 FIXTURES. FIXTURES TO BE CONSTANT "ON".

$_{Df}$ DIMMER SWITCH 'f': WEST LOBBY COFFEE BAR LIGHTS C3, LF4 & LF5. FIXTURES TO BE CONSTANT "ON".

5 E1.23 BUILDING B – FIRST FLOOR LIGHTING CONTROLS

NO SCALE

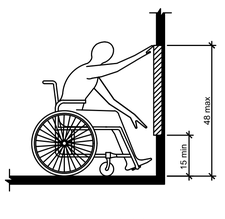


Figure 308.2.1
Unobstructed Forward Reach

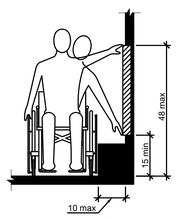


Figure 308.3.1
Unobstructed Side Reach

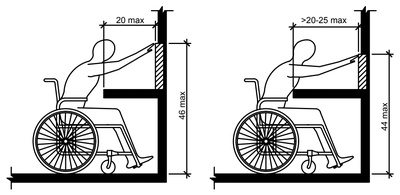


Figure 308.2.2
Obstructed High Forward Reach

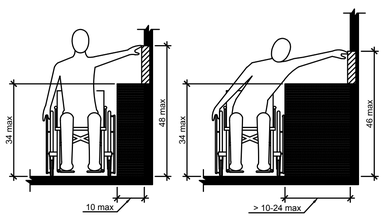


Figure 308.3.2
Obstructed High Side Reach

6 E1.23 ADA REACH REQUIREMENTS

NO SCALE

308.2 Forward Reach.

308.2.1 Unobstructed. Where a forward reach is unobstructed, the high forward reach shall be 48" maximum and the low forward reach shall be 15" minimum above the floor or ground.

308.2.2 Obstructed High Reach. Where a high forward reach is over an obstruction, the clear floor or ground space shall extend beneath the element for a distance not less thank the required reach depth over the obstruction. The high forward reach shall be 48" maximum where the reach depth is 20" maximum. Where the reach depth exceeds 20", the high forward reach shall be 44" maximum and the reach depth shall be 25" maximum.

308.3 Side Reach.

308.3.1 Unobstructed. Where a clear floor or ground space allows a parallel approach to an element and the side reach is unobstructed, the high side reach shall be 48" maximum and the low side reach shall be 15" minimum above the floor or ground.

Exception: Existing elements shall be permitted at 54" maximum above the floor or ground.

308.3.2 Obstructed High Reach. Where a clear floor or ground space allows a parallel approach to an object and the high side reach is over an obstruction, the height of the obstruction shall be 34" maximum and the depth of the obstruction shall 24" maximum. The high side reach shall be 48" maximum for a reach depth of 10" maximum. Where the reach depth exceeds 10", the high side reach shall be 46" maximum for a reach depth of 24" maximum.

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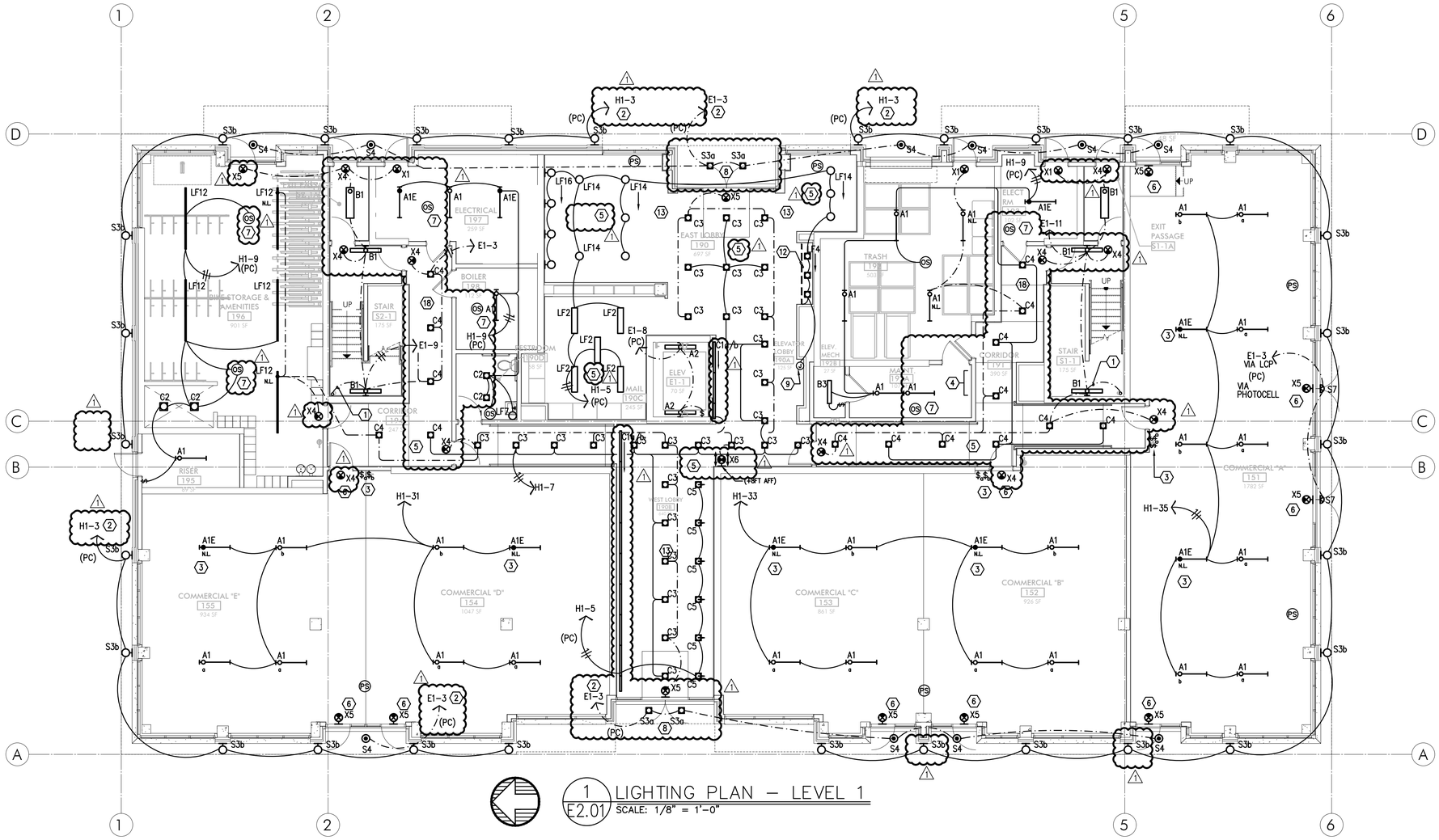
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E1.23

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GENERAL LIGHTING NOTES:

A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.

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

C. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE RESIDENTIAL UNITS.

D. REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULE.

E. THE CONTRACTOR SHALL CONSULT THE ARCHITECT AND/OR INTERIOR DESIGNER FOR THE EXACT LOCATION OF ALL LIGHT FIXTURES PRIOR TO THE START OF ANY ROUGH IN WORK

F. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.

G. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.

H. PROVIDE DIGITAL LIGHTING CONTROLS FOR EACH ROOM/SPACE, CONSISTING OF MULTI-BUTTON SWITCH(ES), OCC SENSORS, POWER PACKS, DAYLIGHT SENSORS, DIMMERS, INTERCONNECTING WIRING, ETC.

I. CORRIDOR LIGHTING TO BE CONSTANT "ON" AND PROVIDED WITH LOCAL MANUAL OVERRIDE SWITCHES FOR MAINTENANCE. REFER TO SHEET E1.22 FOR SWITCH WIRING DIAGRAMS.

J. REFER TO SHEET E1.23 FOR LIGHTING CONTROL DIAGRAMS AND DESIGN INTENT. VERIFY LIGHTING CONTROLLABILITY WITH ARCHITECT AND/OR OWNER'S REPRESENTATIVE TO DETERMINE EXACT NEEDS FOR ALL PUBLIC/COMMON AREAS SUCH AS LOBBIES, OFFICES, LOUNGE AREAS, ETC., PRIOR TO THE START OF ANY WORK.

K. THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.

L. ALL EGRESS FIXTURES SHALL BE WIRED SUCH THAT IN THE EVENT OF A POWER FAILURE, ALL LIGHTS WILL AUTOMATICALLY RETURN TO FULL POWER. REFER TO SWITCHING DETAILS ON SHEET E1.22.

KEYED NOTES:

1. CONTINUE CIRCUIT UP THROUGH THE STAIRWELL.
2. EXTERIOR BUILDING LIGHTS TO BE CONTROLLED VIA INTEGRAL AND/OR REMOTE PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E1.21-E1.22 FOR ADDITIONAL INFORMATION.
3. LEASE SPACE LIGHTING TO HAVE DUAL SWITCHES. ONE TO CONTROL NORMAL POWER LIGHTS AND ONE TO ACT AS A MANUAL OVERRIDE FOR NIGHT LIGHT FIXTURES (NL). INTENT IS THAT THE NIGHT LIGHTS ARE TO BE "ON" 24/7 AND ONLY ILLUMINATED AT NIGHT VIA PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. NIGHT LIGHT FIXTURES SHALL ALSO BE EQUIPPED WITH EMERGENCY BATTERY BACKUP IN THE EVENT OF A POWER FAILURE. ALL LIGHT FIXTURES IN THE LEASE SPACE ARE TO BE ON A SINGLE CIRCUIT AND TEMPORARILY FED FROM THE HOUSE PANEL
4. LIGHTING CONTROL FOR LOBBY, CORRIDOR & COMMON SPACES. REFER TO DETAIL #1, SHEET E1.23 FOR MORE INFORMATION.
5. LIGHTING CONTROLS FOR THIS AREA LOCATED IN THE MAINTENANCE ROOM. SEE SHEET NOTE #4 FOR MORE INFORMATION.
6. TIE INTO TEMPORARY LIGHTING CIRCUIT AND ENSURE BATTERY BACK UP POWER FOR EGRESS.
7. LIGHT FIXTURES IN THIS SPACE CONTROLLED BY CEILING MOUNT OCCUPANCY SENSOR.
8. FIXTURE FINISH TO MATCH SOFFIT METAL.
9. PROVIDE POWER CONNECTION FOR COVE LIGHTING AT ALL WALL NICHES TO WALL WASH ART INSTALLATIONS. REFER TO INTERIOR DECORATOR'S INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION REGARDING LENGTH & LOCATION. REFER TO SHEET NOTE #4 FOR INFORMATION REGARDING LIGHTING CONTROL.
10. REFER TO DETAIL #3, SHEET E1.23 FOR CLUBROOM LIGHTING CONTROL ASSIGNMENT.
11. PROVIDE PHOTOCELL FOR DAY-LIGHT REDUCTION OF LIGHT LEVELS.
12. PROVIDE UNDER SHELF LIGHTING PER INTERIOR DECORATOR'S DIRECTION (SEE INTERIOR'S ELEVATION PLANS), USING THE SAME LED TAPE & CHANNEL AS USED IN THE COVE LIGHTING. TYPICAL FOR TWO SHELVES.
13. PROVIDE ONE WEATHER PROOF 20A, 120V GFCI RECEPTACLE AT TOP OF COLUMN (OR THE UNDERSIDE OF THE CANOPY) FOR DECORATIVE STRING LIGHTS. CIRCUITED AS INDICATED. PROVIDE PHOTOCELL FOR DUSK-TILL-DAWN OPERATION.
14. TYPICAL LIGHTING CONTROL FOR RESIDENTIAL CORRIDORS. REFER TO DETAIL #2, SHEET E1.23 FOR MORE INFORMATION.
15. TYPICAL LIGHTING CONTROL FOR 6TH FLOOR CORRIDOR. REFER TO DETAIL #3, SHEET E1.23 FOR MORE INFORMATION.
16. EGRESS LIGHT FIXTURES TO BE CONSTANT 'ON' AT FULL LIGHT OUTPUT. TIE FIXTURES INTO CORRIDOR EGRESS CIRCUIT.
17. COORDINATE EXACT LOCATION OF LIGHT FIXTURES WITH ARCHITECT PRIOR TO ROUGH IN.
18. CIRCUIT SERVICE CORRIDOR LIGHT FIXTURES AHEAD OF SWITCHED FIXTURES ON SAME CIRCUIT. CORRIDOR LIGHT FIXTURES TO BE CONSTANT 'ON'.

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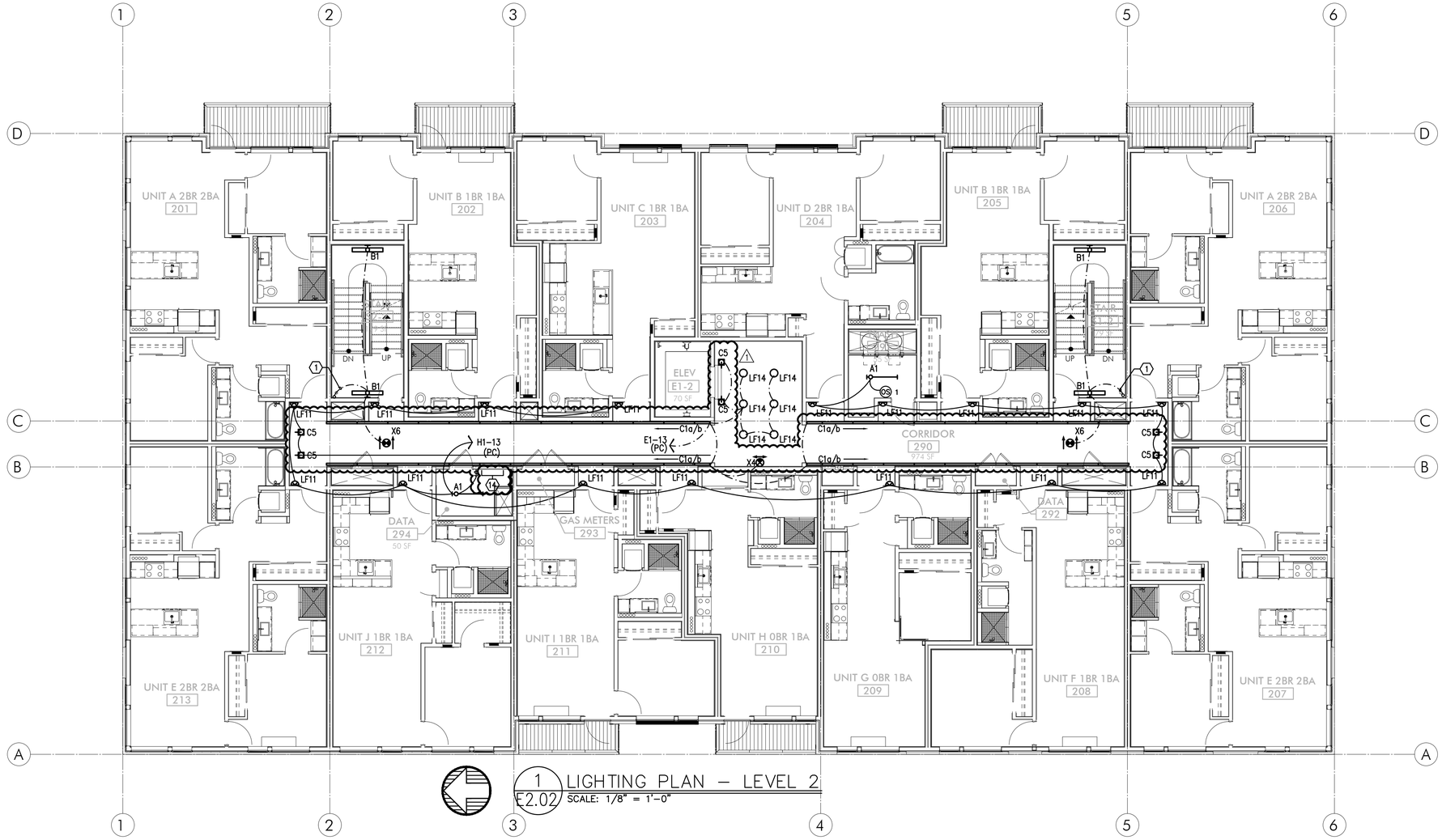
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18. CIRCUIT SERVICE CORRIDOR LIGHT FIXTURES AHEAD OF SWITCHED FIXTURES ON SAME CIRCUIT. CORRIDOR LIGHT FIXTURES TO BE CONSTANT 'ON'.

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EXPIRES: July 5th, 2020

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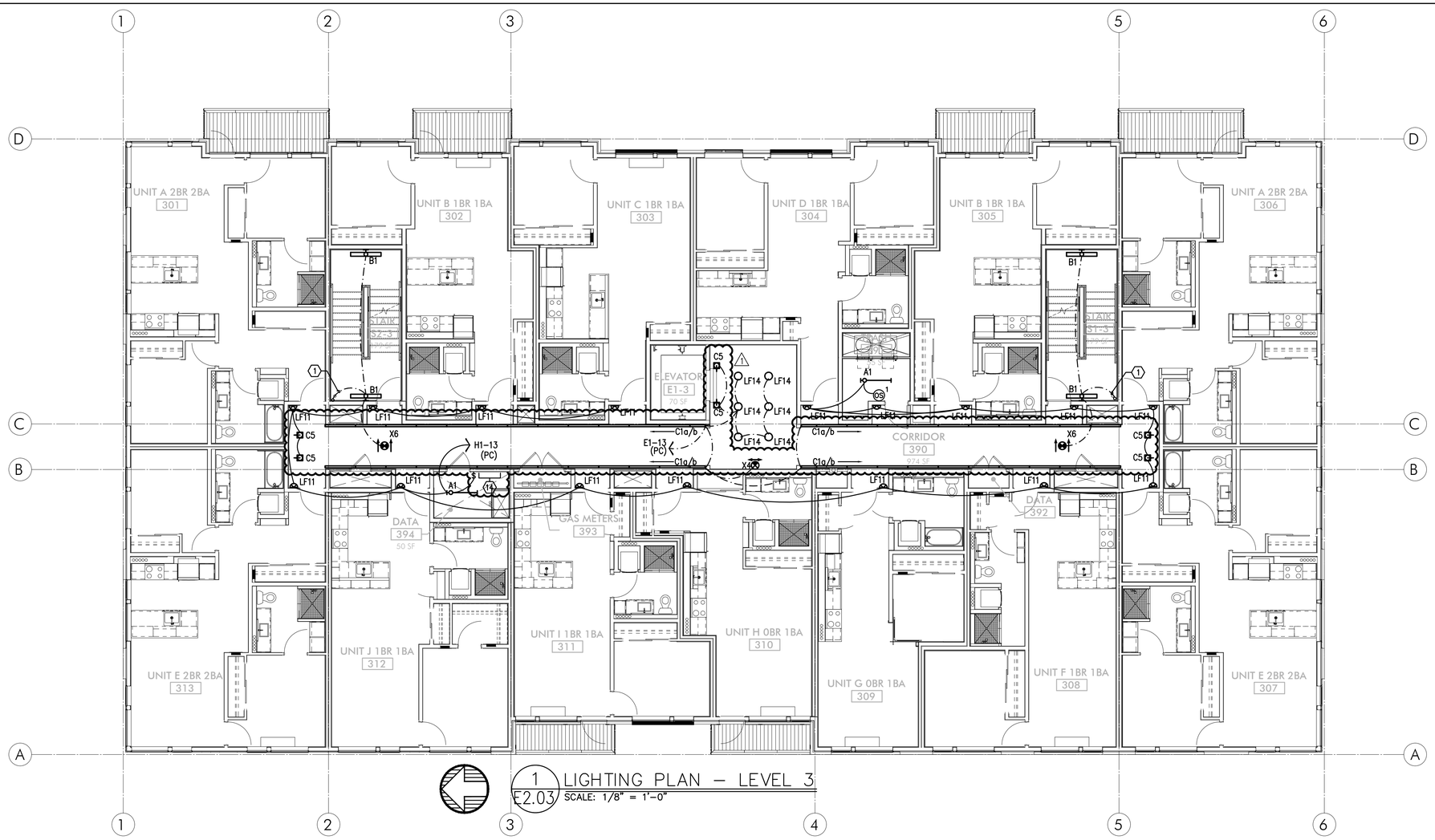
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1 LIGHTING PLAN – LEVEL 3
E2.03 SCALE: 1/8" = 1'-0"

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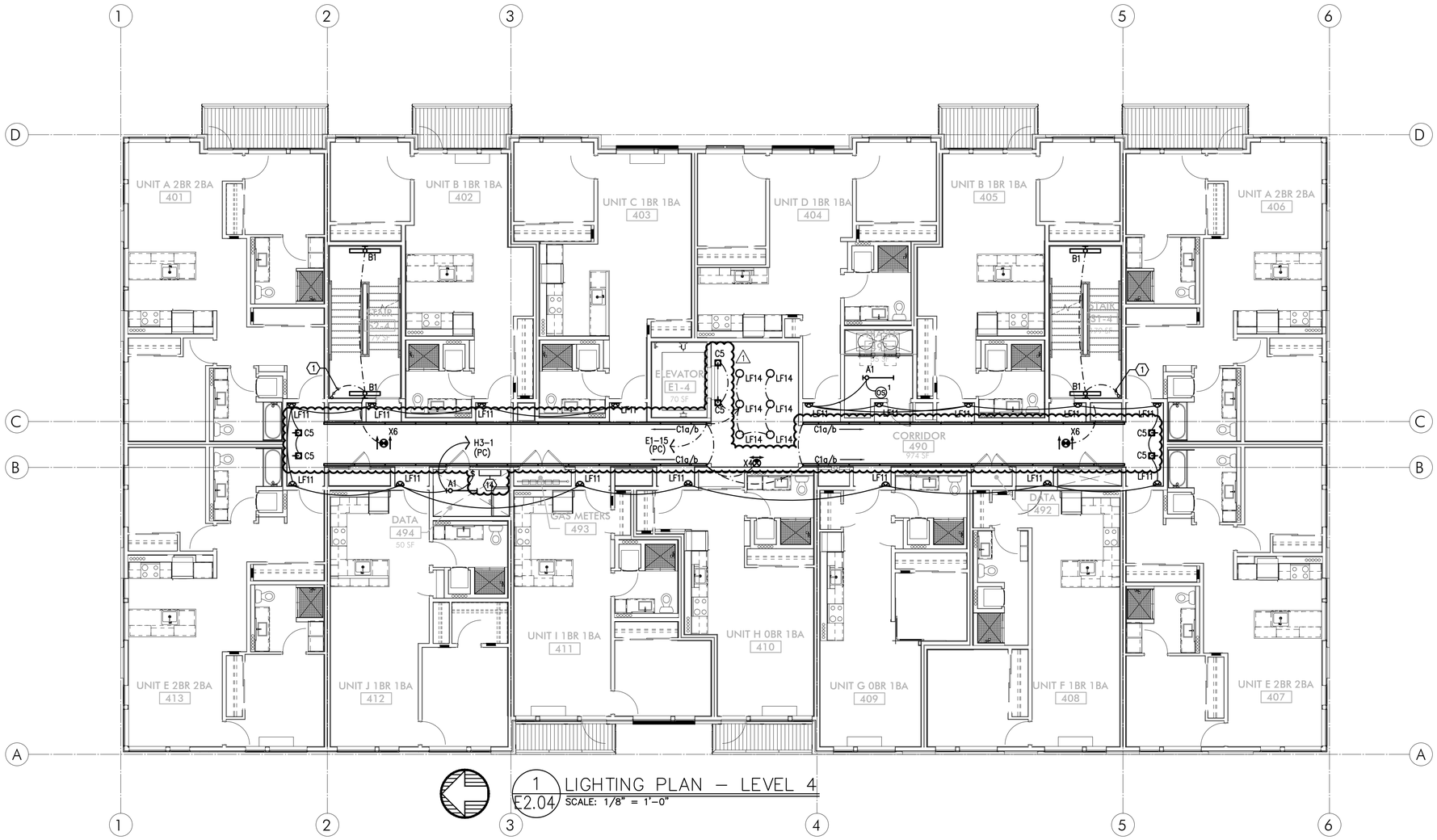
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1 LIGHTING PLAN – LEVEL 4
E2.04 SCALE: 1/8" = 1'-0"

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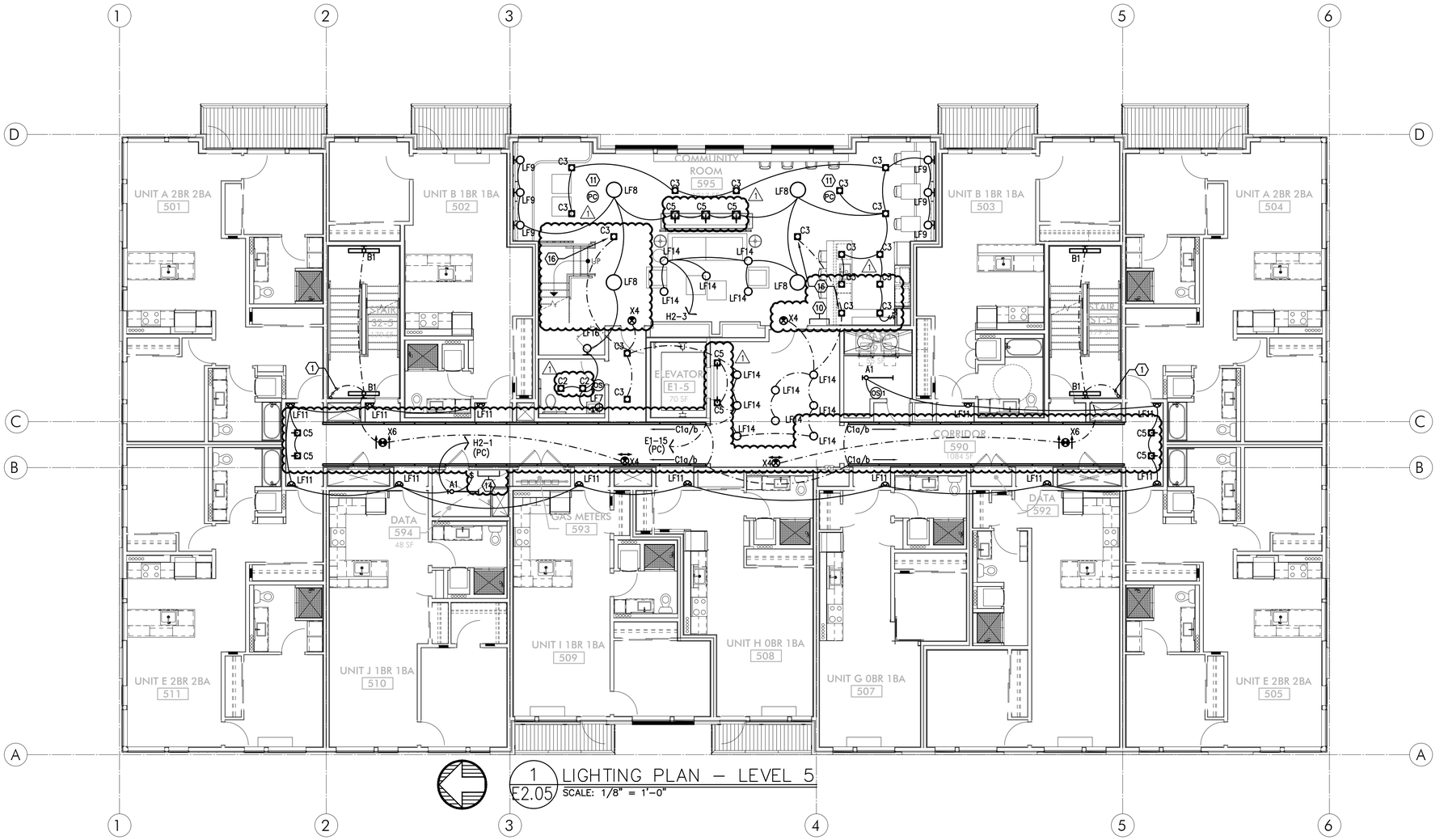
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E2.04

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12. PROVIDE UNDER SHELF LIGHTING PER INTERIOR DECORATOR'S DIRECTION (SEE INTERIOR'S ELEVATION PLANS), USING THE SAME LED TAPE & CHANNEL AS USED IN THE COVE LIGHTING. TYPICAL FOR TWO SHELVES.
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18. CIRCUIT SERVICE CORRIDOR LIGHT FIXTURES AHEAD OF SWITCHED FIXTURES ON SAME CIRCUIT. CORRIDOR LIGHT FIXTURES TO BE CONSTANT 'ON'.

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EXPIRES: July 5th, 2020

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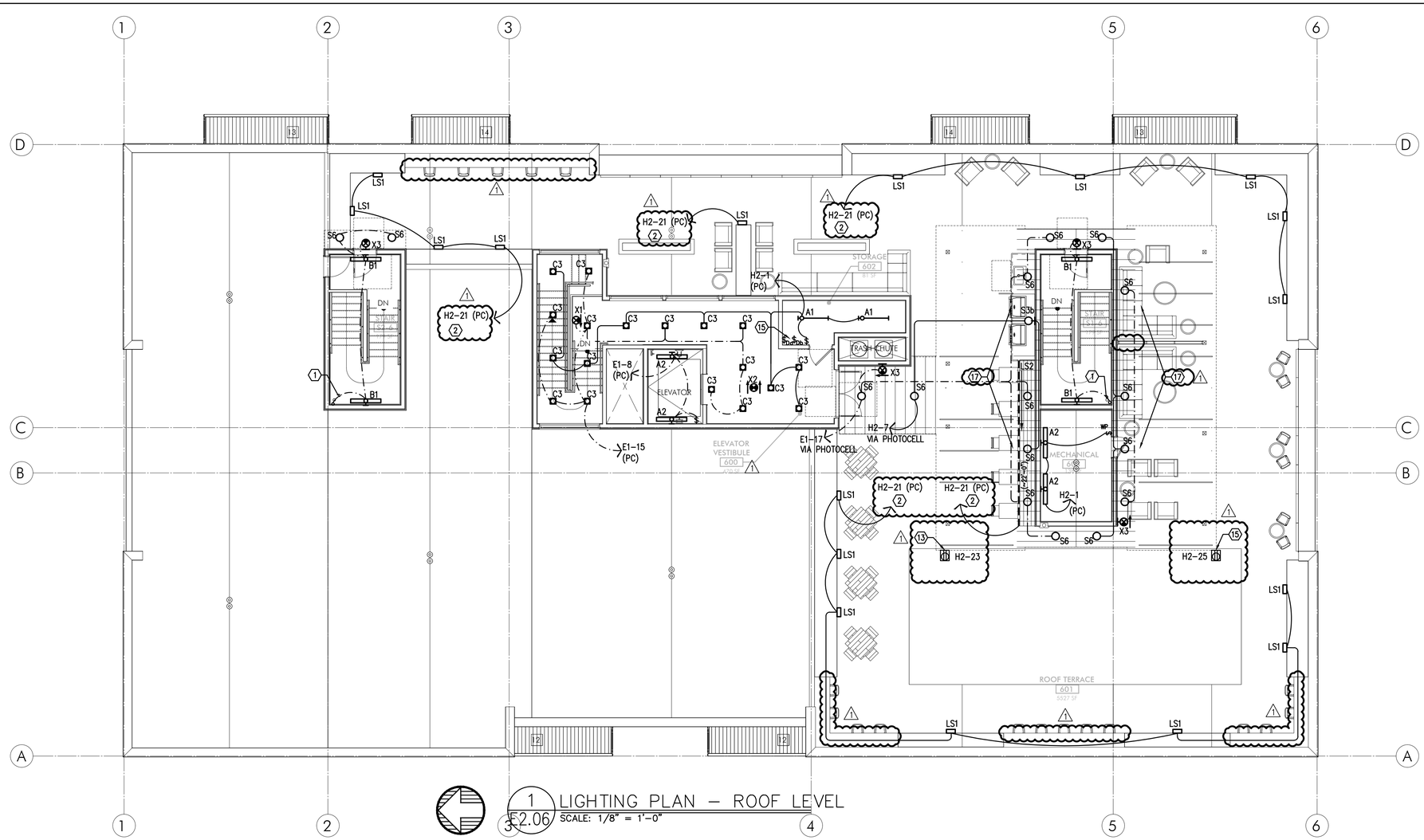
PROJECT # 2017-053
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E2.05



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

GENERAL LIGHTING NOTES:

A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.

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

C. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE RESIDENTIAL UNITS.

D. REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULE.

E. THE CONTRACTOR SHALL CONSULT THE ARCHITECT AND/OR INTERIOR DESIGNER FOR THE EXACT LOCATION OF ALL LIGHT FIXTURES PRIOR TO THE START OF ANY ROUGH IN WORK

F. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.

G. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.

H. PROVIDE DIGITAL LIGHTING CONTROLS FOR EACH ROOM/SPACE, CONSISTING OF MULTI-BUTTON SWITCH(ES), OCC SENSORS, POWER PACKS, DAYLIGHT SENSORS, DIMMERS, INTERCONNECTING WIRING, ETC.

I. CORRIDOR LIGHTING TO BE CONSTANT "ON" AND PROVIDED WITH LOCAL MANUAL OVERRIDE SWITCHES FOR MAINTENANCE. REFER TO SHEET E1.22 FOR SWITCH WIRING DIAGRAMS.

J. REFER TO SHEET E1.23 FOR LIGHTING CONTROL DIAGRAMS AND DESIGN INTENT. VERIFY LIGHTING CONTROLLABILITY WITH ARCHITECT AND/OR OWNER'S REPRESENTATIVE TO DETERMINE EXACT NEEDS FOR ALL PUBLIC/COMMON AREAS SUCH AS LOBBIES, OFFICES, LOUNGE AREAS, ETC., PRIOR TO THE START OF ANY WORK.

K. THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.

L. ALL EGRESS FIXTURES SHALL BE WIRED SUCH THAT IN THE EVENT OF A POWER FAILURE, ALL LIGHTS WILL AUTOMATICALLY RETURN TO FULL POWER. REFER TO SWITCHING DETAILS ON SHEET E1.22.

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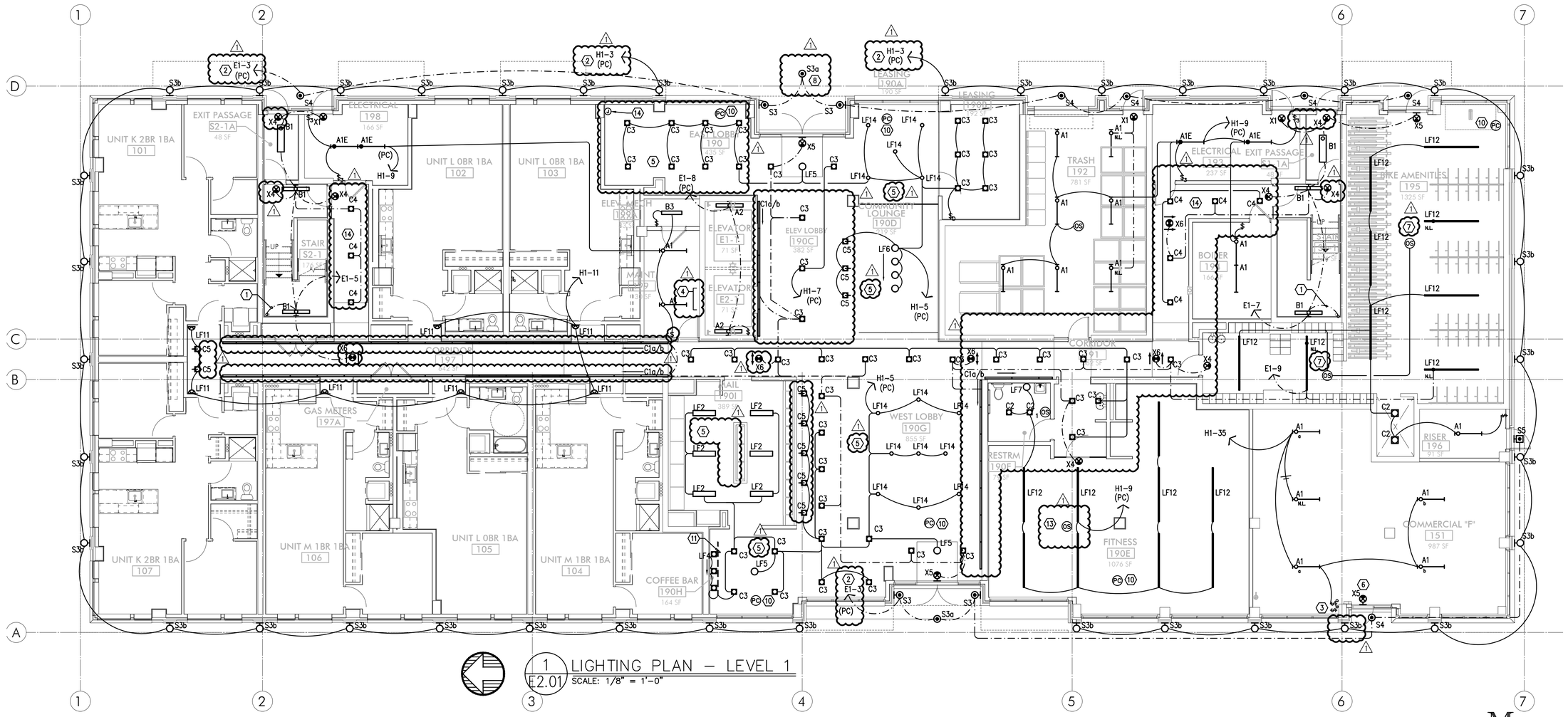
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1 / E2.01 LIGHTING PLAN – LEVEL 1
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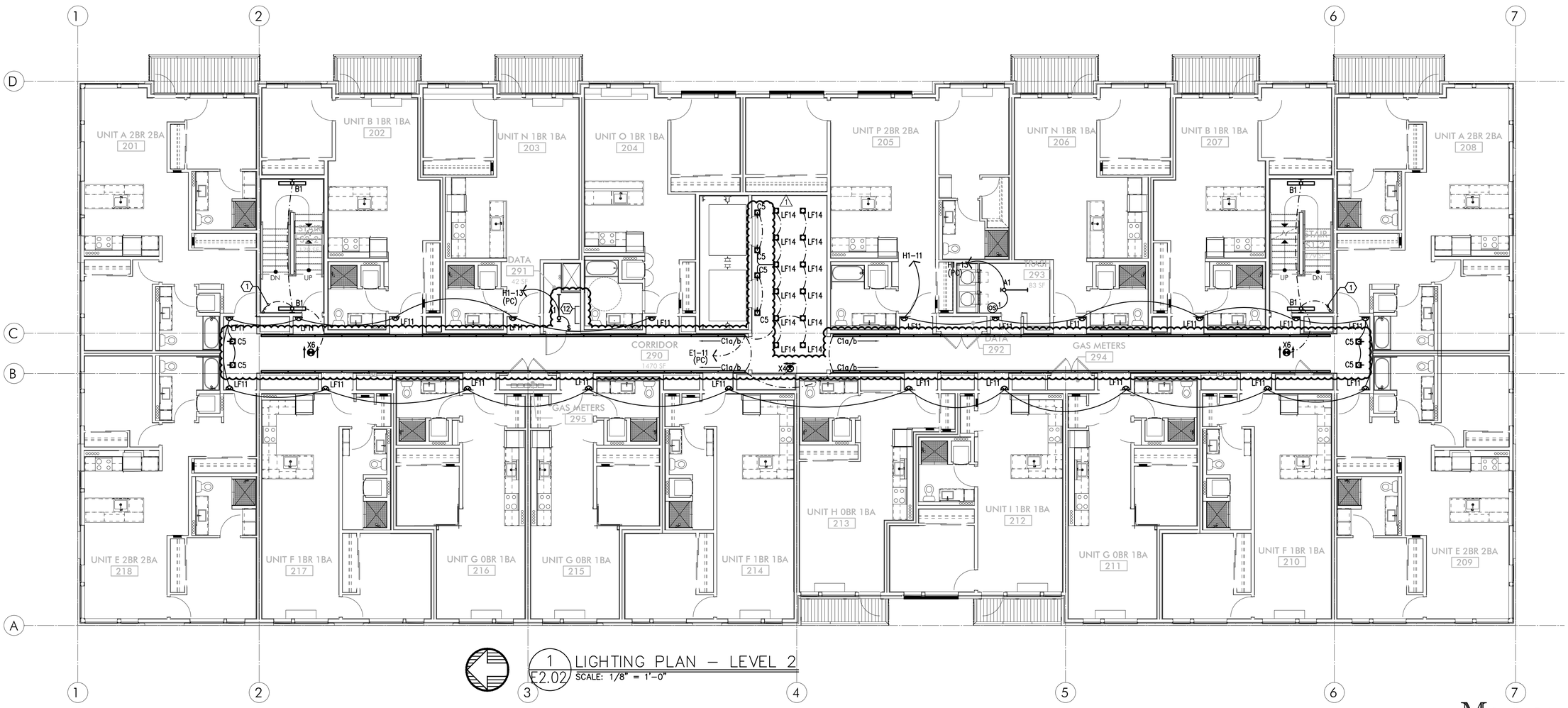
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1 LIGHTING PLAN – LEVEL 2
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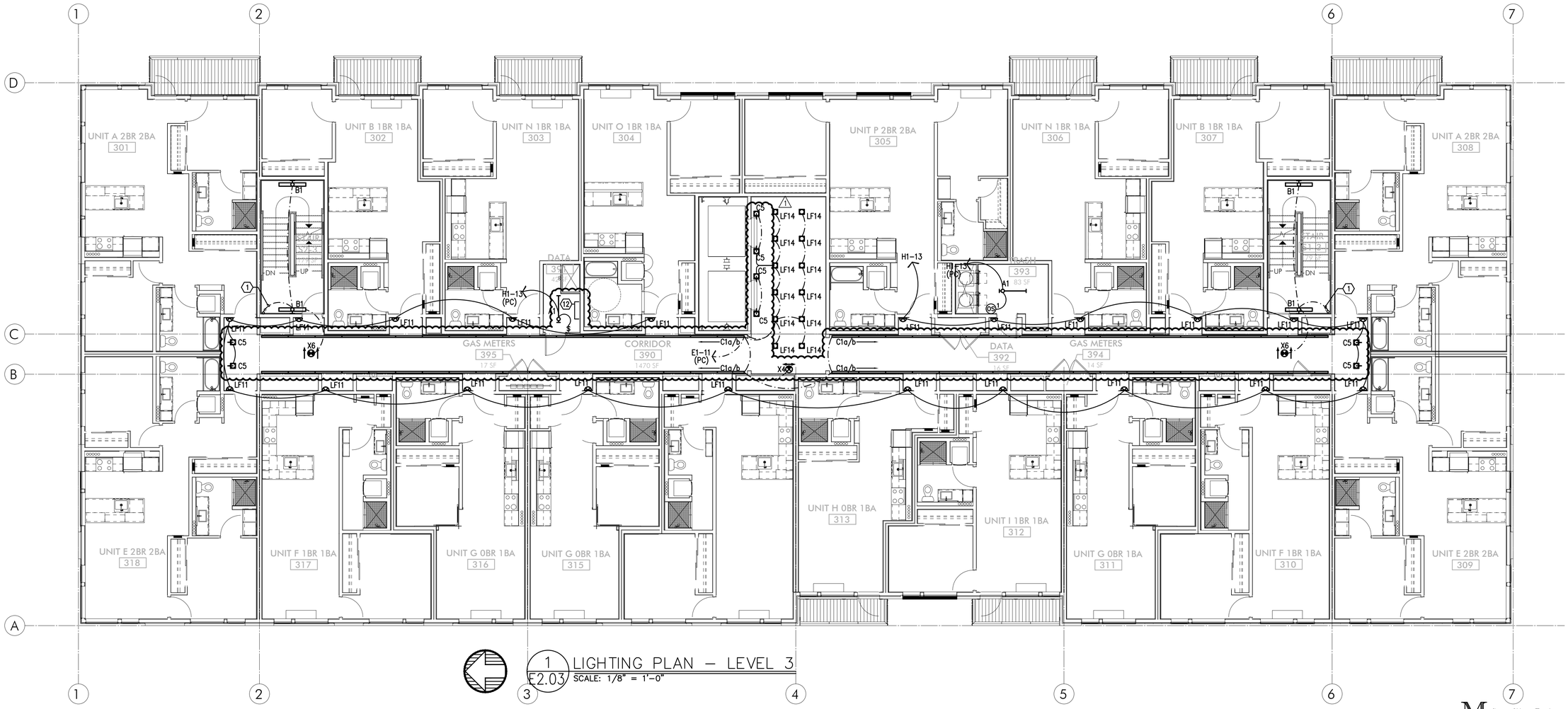
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3. LEASE SPACE LIGHTING TO HAVE DUAL SWITCHES. ONE TO CONTROL NORMAL POWER LIGHTS AND ONE TO ACT AS A MANUAL OVERRIDE FOR NIGHT LIGHT FIXTURES (NL). INTENT IS THAT THE NIGHT LIGHTS ARE TO BE "ON" 24/7 AND ONLY ILLUMINATED AT NIGHT VIA PHOTOCELL FOR DUSK-TILL-DAWN OPERATION.. NIGHT LIGHT FIXTURES SHALL ALSO BE EQUIPPED WITH EMERGENCY BATTERY BACKUP IN THE EVENT OF A POWER FAILURE. ALL LIGHT FIXTURES IN THE LEASE SPACE ARE TO BE ON A SINGLE CIRCUIT AND TEMPORARILY FED FROM THE HOUSE PANEL
4. LIGHTING CONTROL FOR LOBBY, CORRIDOR & COMMON SPACES. REFER TO DETAIL #1, SHEET E1.23 FOR MORE INFORMATION.
5. LIGHTING CONTROLS FOR THIS AREA LOCATED IN THE MAINTENANCE ROOM. SEE SHEET NOTE #4 FOR MORE INFORMATION.
6. TIE INTO TEMPORARY LIGHTING CIRCUIT AND ENSURE BATTERY BACK UP POWER FOR EGRESS.
7. BIKE ROOM LIGHT FIXTURES CONTROLLED BY CEILING MOUNT OCCUPANCY SENSOR.
8. FIXTURE CENTERED UNDER STEEL CANOPY.
9. PROVIDE POWER CONNECTION FOR COVE LIGHTING AT ALL WALL NICHES TO WALL WASH ART INSTALLATIONS. REFER TO INTERIOR DECORATOR'S INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION REGARDING LENGTH, LOCATIONS AND CONTROL TYPE TO BE INSTALLED. USE FIXTURE TYPE 'C1' AND TIE INTO LOBBY LIGHTING CIRCUIT H1-5.
10. PROVIDE CEILING MOUNTED PHOTOCELL TO PROVIDE DIMMING OF LIGHT FIXTURES DURING DAYLIGHT PERIODS.
11. PROVIDE UNDER SHELF LIGHTING PER INTERIOR DECORATOR'S DIRECTION (SEE INTERIOR'S ELEVATION PLANS), USING THE SAME LED TAPE & CHANNEL AS USED IN THE COVE LIGHTING. TYPICAL FOR TWO SHELVES.
12. TYPICAL LIGHTING CONTROL FOR RESIDENTIAL CORRIDORS. REFER TO DETAIL #2, SHEET E1.23 FOR MORE INFORMATION.
13. FITNESS ROOM LIGHT FIXTURES SHALL BE CONTROLLED VIA OCCUPANCY SENSOR, SUCH THAT LIGHTS SHALL DIM DOWN BY 50% DURING PERIODS OF NO ACTIVITY AND RETURN TO 100% LIGHT OUTPUT ON OCCUPANCY DETECTION. FIXTURES SHALL REMAIN ON FOR A MINIMUM OF 30 MINUTES OF AREA VACANCY.
14. CIRCUIT SERVICE CORRIDOR LIGHT FIXTURES AHEAD OF SWITCHED FIXTURES ON SAME CIRCUIT. CORRIDOR LIGHT FIXTURES TO BE CONSTANT 'ON'.



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

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ROBERT L. CONNELL STATE OF WASHINGTON 10653 REGISTERED PROFESSIONAL ENGINEER
EXPIRES: July 5th, 2020

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

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

REVISIONS

1 PLAN REVIEW 01.24.2020

AEGIS
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312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

SHEET:
B
E2.03

GENERAL LIGHTING NOTES:

A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.

B. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.

C. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.

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

E. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE RESIDENTIAL UNITS.

F. REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULE.

G. THE CONTRACTOR SHALL CONSULT THE ARCHITECT AND INTERIOR DESIGNER FOR ALL FIXTURE LOCATIONS PRIOR TO THE START OF ANY ROUGH IN WORK

H. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.

I. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.

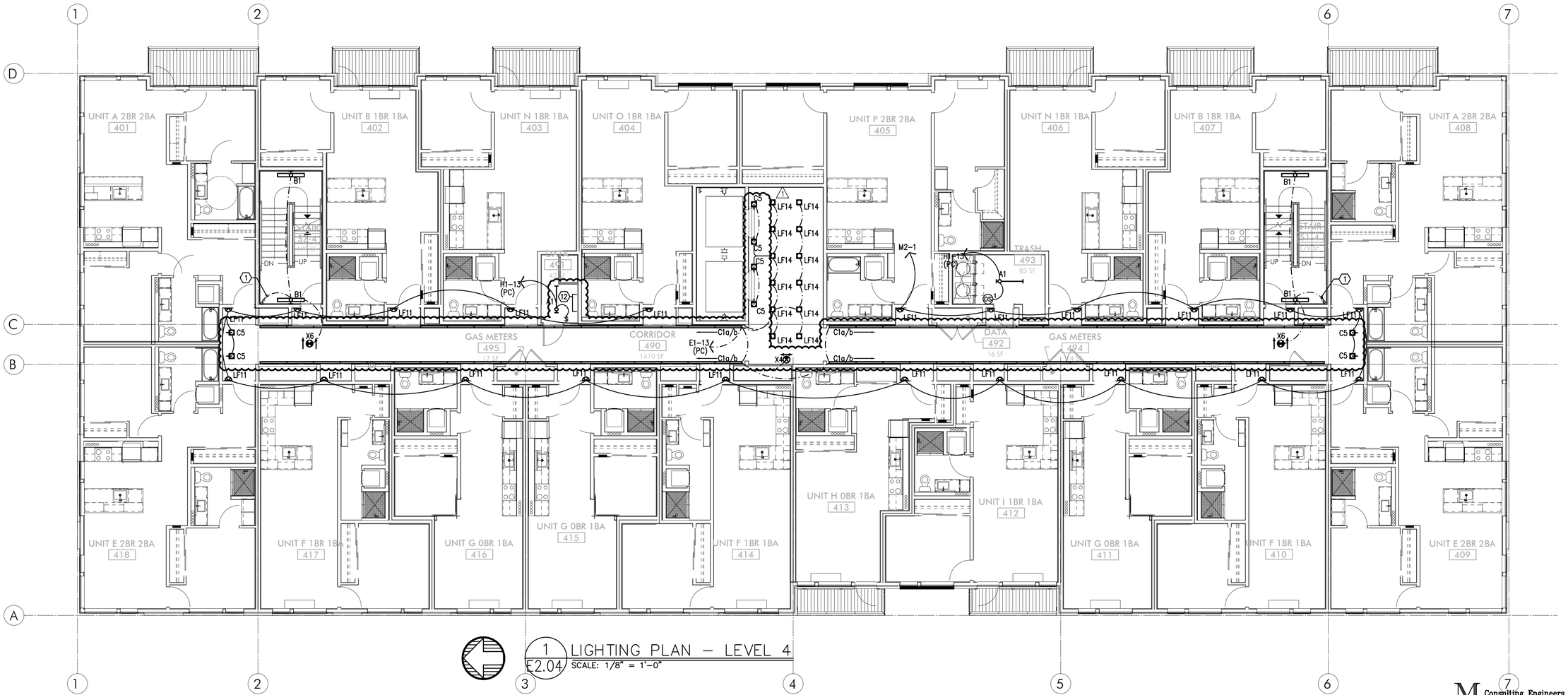
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K. THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.

L. ALL EGRESS FIXTURES SHALL BE WIRED SUCH THAT IN THE EVENT OF A POWER FAILURE, ALL LIGHTS WILL AUTOMATICALLY RETURN TO FULL POWER. REFER TO SWITCHING DETAILS ON SHEET E1.22.

KEYED NOTES:

1. CONTINUE CIRCUIT UP THROUGH THE STAIRWELL.
2. EXTERIOR BUILDING LIGHTS TO BE CONTROLLED VIA INTEGRAL AND/OR REMOTE PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E1.21-E1.22 FOR ADDITIONAL INFORMATION.
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11. PROVIDE UNDER SHELF LIGHTING PER INTERIOR DECORATOR'S DIRECTION (SEE INTERIOR'S ELEVATION PLANS), USING THE SAME LED TAPE & CHANNEL AS USED IN THE COVE LIGHTING. TYPICAL FOR TWO SHELVES.
12. TYPICAL LIGHTING CONTROL FOR RESIDENTIAL CORRIDORS. REFER TO DETAIL #2, SHEET E1.23 FOR MORE INFORMATION.
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14. CIRCUIT SERVICE CORRIDOR LIGHT FIXTURES AHEAD OF SWITCHED FIXTURES ON SAME CIRCUIT. CORRIDOR LIGHT FIXTURES TO BE CONSTANT 'ON'.



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

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EXPIRES: July 5th, 2020

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

REVISIONS
1 PLAN REVIEW 01.24.2020

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SHEET:
B
E2.04

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GENERAL LIGHTING NOTES:

A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.

B. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.

C. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.

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

E. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE RESIDENTIAL UNITS.

F. REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULE.

G. THE CONTRACTOR SHALL CONSULT THE ARCHITECT AND INTERIOR DESIGNER FOR ALL FIXTURE LOCATIONS PRIOR TO THE START OF ANY ROUGH IN WORK

H. REFER TO AVAILABLE ARCHITECTURAL AND/OR INTERIOR DESIGN DOCUMENTS & DRAWINGS FOR ADDITIONAL INFORMATION.

I. OCCUPANCY SENSORS SHALL BE FIELD ADJUSTED TO ENSURE COVERAGE AND PROPER CONTROL.

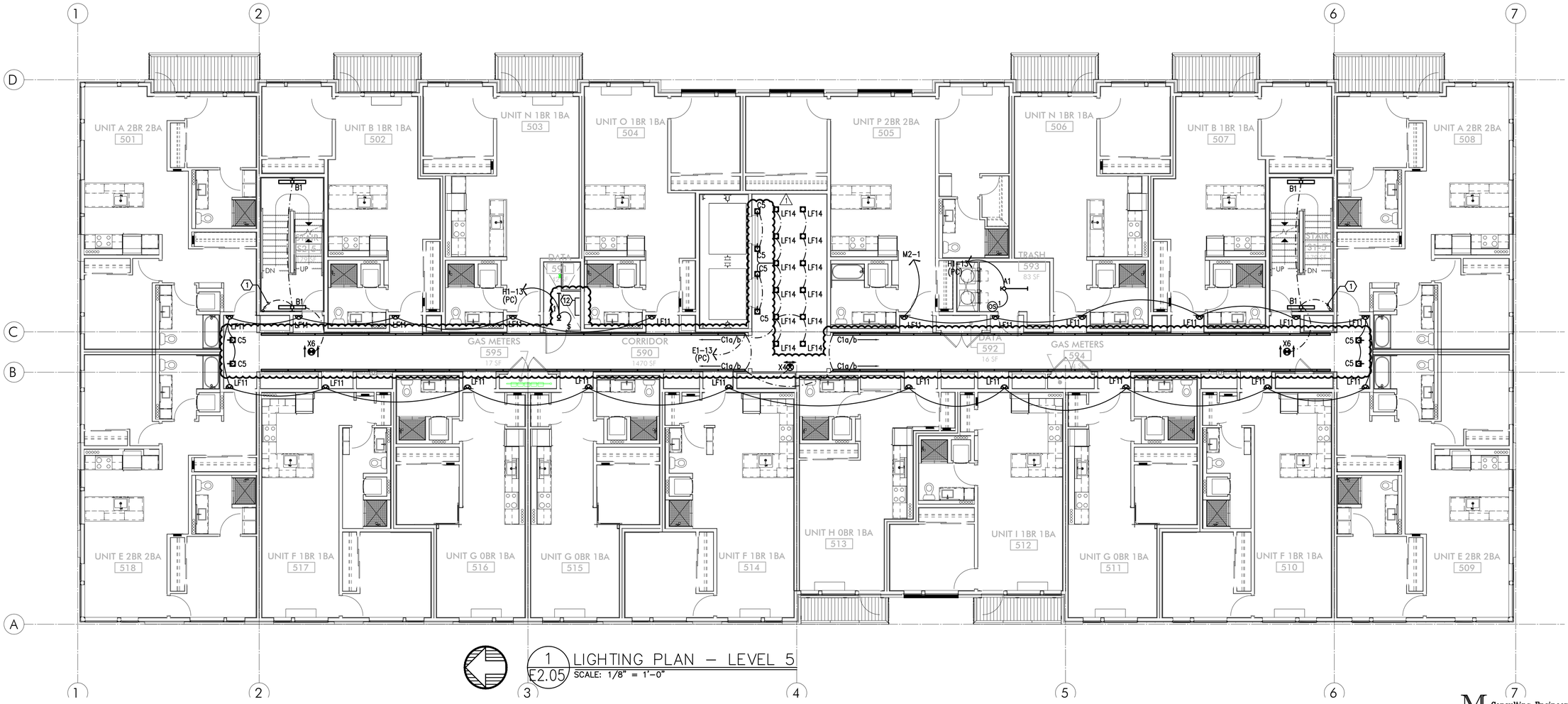
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L. ALL EGRESS FIXTURES SHALL BE WIRED SUCH THAT IN THE EVENT OF A POWER FAILURE, ALL LIGHTS WILL AUTOMATICALLY RETURN TO FULL POWER. REFER TO SWITCHING DETAILS ON SHEET E1.22.

KEYED NOTES:

1. CONTINUE CIRCUIT UP THROUGH THE STAIRWELL.
2. EXTERIOR BUILDING LIGHTS TO BE CONTROLLED VIA INTEGRAL AND/OR REMOTE PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E1.21-E1.22 FOR ADDITIONAL INFORMATION.
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6. TIE INTO TEMPORARY LIGHTING CIRCUIT AND ENSURE BATTERY BACK UP POWER FOR EGRESS.
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14. CIRCUIT SERVICE CORRIDOR LIGHT FIXTURES AHEAD OF SWITCHED FIXTURES ON SAME CIRCUIT. CORRIDOR LIGHT FIXTURES TO BE CONSTANT 'ON'.



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

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ROBERT L. CONNELL STATE OF WASHINGTON 10653 REGISTERED PROFESSIONAL ENGINEER

EXPIRES: July 5th, 2020

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

REVISIONS

1 PLAN REVIEW 01.24.2020

AEGIS
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312 E EVERGREEN BOULEVARD, VANCOUVER, WA 98660

SHEET:
B
E2.05

GENERAL LIGHTING NOTES:

A. ELECTRICAL DRAWINGS ARE DIAGRAMMATICAL AND MAY NOT ACCURATELY REFLECT ACTUAL CONSTRUCTION CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF ALL ELECTRICAL EQUIPMENT, WITH ALL TRADES PRIOR TO AND DURING CONSTRUCTION.

B. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.

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E. REFER TO ENLARGED TYPICAL UNIT PLANS (E4 SERIES SHEETS) FOR TYPICAL POWER & LIGHTING LAYOUTS FOR THE RESIDENTIAL UNITS.

F. REFER TO SHEET E1.21 FOR LIGHT FIXTURE SCHEDULE.

G. THE CONTRACTOR SHALL CONSULT THE ARCHITECT AND INTERIOR DESIGNER FOR ALL FIXTURE LOCATIONS PRIOR TO THE START OF ANY ROUGH IN WORK

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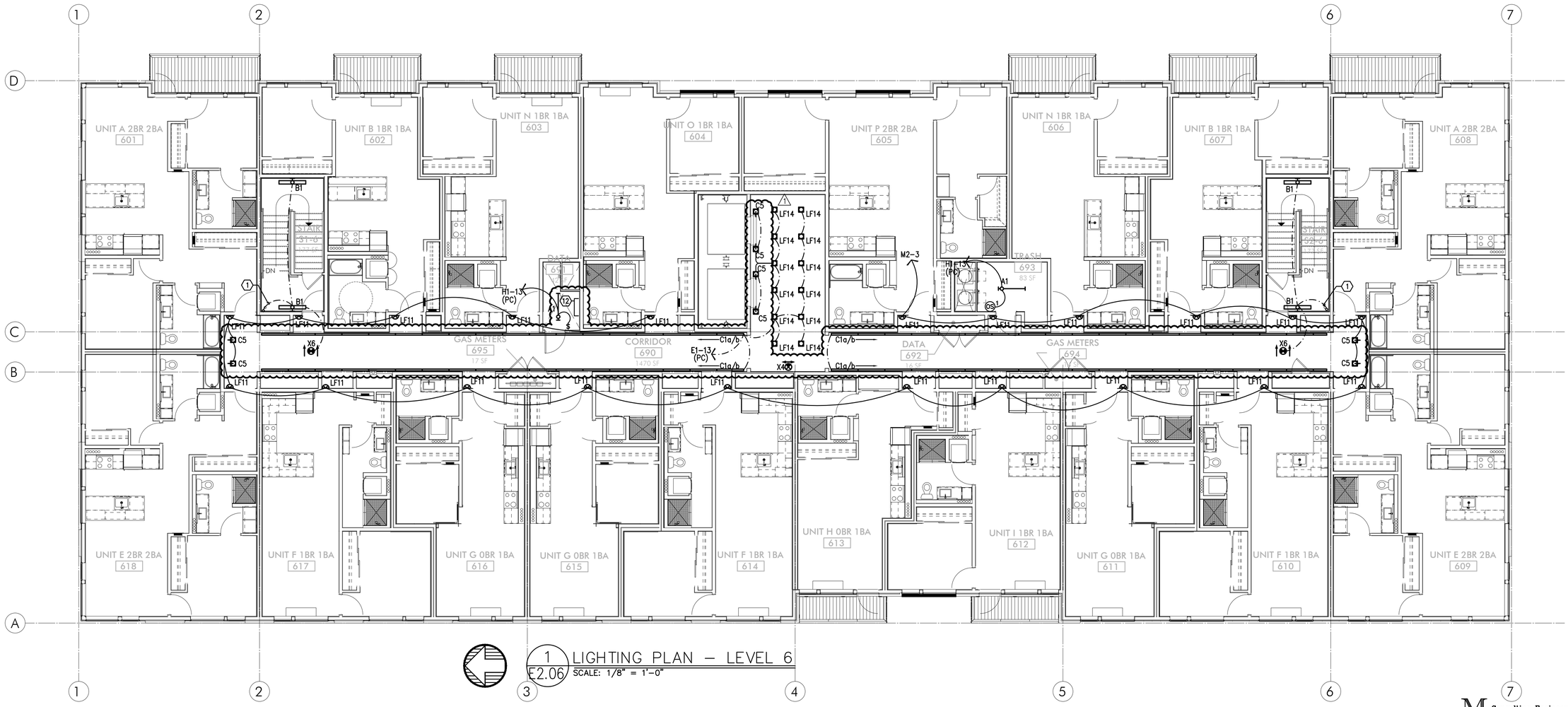
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KEYED NOTES:

1. CONTINUE CIRCUIT UP THROUGH THE STAIRWELL.
2. EXTERIOR BUILDING LIGHTS TO BE CONTROLLED VIA INTEGRAL AND/OR REMOTE PHOTOCELL FOR DUSK-TILL-DAWN OPERATION. REFER TO LIGHT FIXTURE SCHEDULE ON SHEET E1.21-E1.22 FOR ADDITIONAL INFORMATION.
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14. CIRCUIT SERVICE CORRIDOR LIGHT FIXTURES AHEAD OF SWITCHED FIXTURES ON SAME CIRCUIT. CORRIDOR LIGHT FIXTURES TO BE CONSTANT 'ON'.



1 / E2.06 LIGHTING PLAN – LEVEL 6
SCALE: 1/8" = 1'-0"

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ROBERT L. CONNELL STATE OF WASHINGTON 20053 REGISTERED PROFESSIONAL ENGINEER
EXPIRES: July 5th, 2020

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

REVISIONS

1 PLAN REVIEW 01.24.2020

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

SHEET:
B
E2.06

GENERAL POWER NOTES:

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

B. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.

C. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.

D. REFER TO INTERIOR DECORATOR AND/OR ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATION(S) AND ELEVATIONS OF FIXTURES & DEVICES. OTHER DEVICES SHOWN ON THE ELECTRICAL PLANS AND NOT INDICATED ON THE DECORATOR'S OR ARCHITECT'S DRAWINGS, SHALL BE INSTALLED AT STANDARD MOUNTING HEIGHT AS INDICATED THE SYMBOL LIST.

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

F. ELECTRICAL EQUIPMENT SHOWN IN THE ELECTRICAL ROOMS IS APPROXIMATE, BASED ON TYPICAL PRODUCTS. CONTRACTOR SHALL VERIFY ANY SUBMITTED EQUIPMENT WILL FIT WITHIN THE SPACE PROVIDED, PRIOR TO PRODUCT SUBMITTAL REVIEW.

G. CONSULT ARCHITECTURAL AND/OR INTERIOR DECORATOR PLANS FOR EXACT RECEPTACLE LOCATION IN THE COMMUNITY AREAS, SUCH AS THE LOBBY, CLUB ROOM, LEASE OFFICE, ETC.

H. THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.

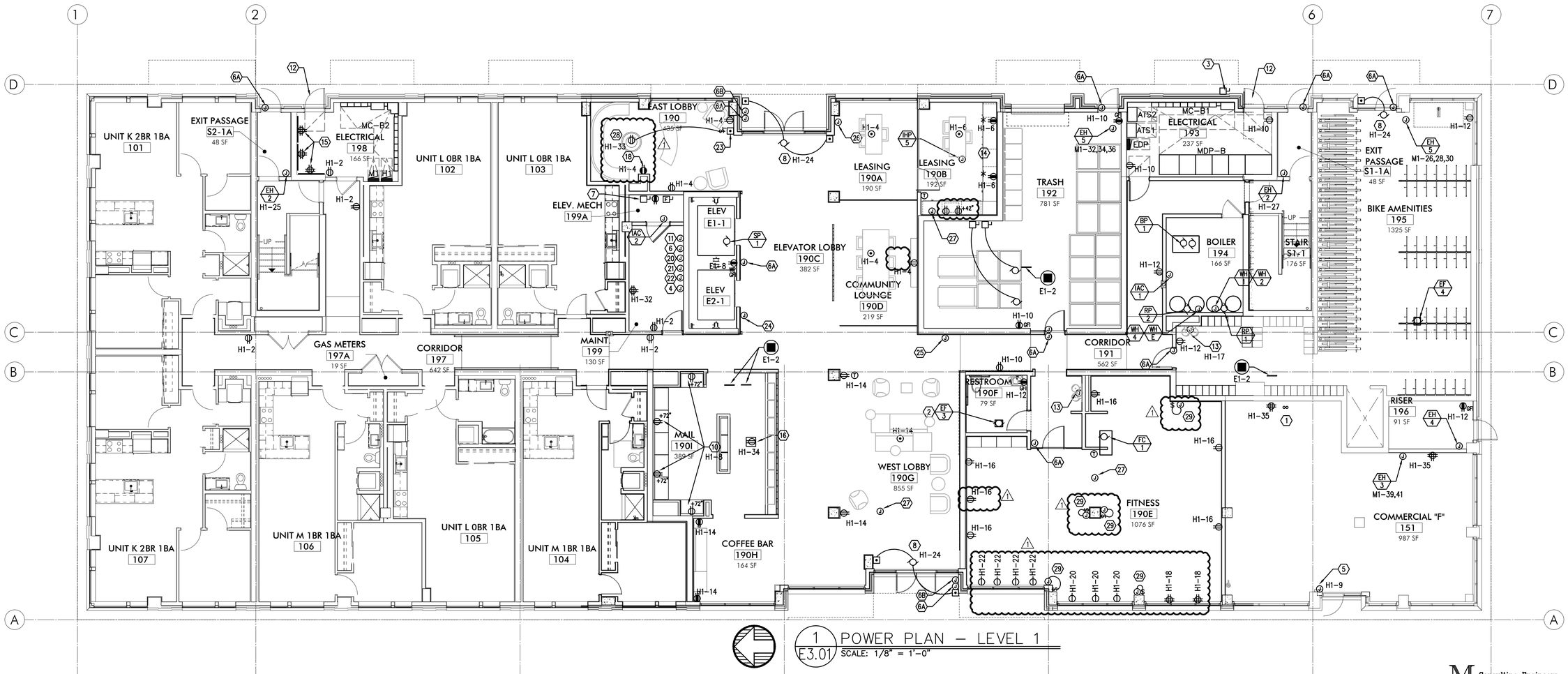
⬡ KEYED NOTES:

1. ROUTE (2) EMPTY 3 1/2" CONDUIT WITH PULL STRING, FROM MC1 UNDER SLAB AND STUB-UP INTO LEASE SPACE FOR TENANT SUPPLIED BRANCH PANEL AND CAP OFF.
2. EXHAUST FAN TO BE TIED INTO LIGHTING CIRCUIT FOR THIS AREA.
3. GENERATOR DISCONNECT. SEE ONE-LINE DIAGRAM ON SHEET E1.11.
4. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR GENERATOR REMOTE ANNUNCIATOR. FED FROM PANEL E1, CKT 27.
5. 20A,120V, 1P POWER CONNECTION FOR BLADE SIGNS. CIRCUIT AS INDICATED VIA LIGHTING CONTROL PANEL. MOUNT JUNCTION BOX TIGHT TO CEILING (AT BUILDING INTERIOR), COORDINATING EXACT LOCATION WITH SIGN INSTALLER'S SLEEVE AND PER ARCHITECT'S DIRECTION AT EACH LOCATION.
6. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 30 FOR BUILDING ENTRY ACCESS CONTROL SYSTEM AND PROVIDE ROUGH IN AND WIRING TO ACCESS POINTS LOCATED ON PLANS. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.

6A. ENTRY ACCESS POINT.

6B. APARTMENT CALL DIRECTORY.

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



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

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EXPIRES: July 5th, 2020

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

REVISIONS
1 PLAN REVIEW 01.24.2020

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E3.01

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GENERAL POWER NOTES:

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

B. ELECTRICAL CONTRACTOR TO PROVIDE THERMOSTATS NOT SUPPLIED BY MECHANICAL CONTRACTOR. CONSULT MECHANICAL PLANS FOR ADDITIONAL INFORMATION.

C. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.

D. REFER TO INTERIOR DECORATOR AND/OR ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATION(S) AND ELEVATIONS OF FIXTURES & DEVICES. OTHER DEVICES SHOWN ON THE ELECTRICAL PLANS AND NOT INDICATED ON THE DECORATOR'S OR ARCHITECT'S DRAWINGS, SHALL BE INSTALLED AT STANDARD MOUNTING HEIGHT AS INDICATED THE SYMBOL LIST.

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

F. ELECTRICAL EQUIPMENT SHOWN IN THE ELECTRICAL ROOMS IS APPROXIMATE, BASED ON TYPICAL PRODUCTS. CONTRACTOR SHALL VERIFY ANY SUBMITTED EQUIPMENT WILL FIT WITHIN THE SPACE PROVIDED, PRIOR TO PRODUCT SUBMITTAL REVIEW.

G. CONSULT ARCHITECTURAL AND/OR INTERIOR DECORATOR PLANS FOR EXACT RECEPTACLE LOCATION IN THE COMMUNITY AREAS, SUCH AS THE LOBBY, CLUB ROOM, LEASE OFFICE, ETC.

H. THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.

KEYED NOTES:

1. ROUTE (2) EMPTY 3 1/2" CONDUIT WITH PULL STRING, FROM MC1 UNDER SLAB AND STUB-UP INTO LEASE SPACE FOR TENANT SUPPLIED BRANCH PANEL AND CAP OFF.
2. EXHAUST FAN TO BE TIED INTO LIGHTING CIRCUIT FOR THIS AREA.
3. GENERATOR DISCONNECT. SEE ONE-LINE DIAGRAM ON SHEET E1.11.
4. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR GENERATOR REMOTE ANNUNCIATOR. FED FROM PANEL E1, CKT 27.
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6. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 30 FOR BUILDING ENTRY ACCESS CONTROL SYSTEM AND PROVIDE ROUGH IN AND WIRING TO ACCESS POINTS LOCATED ON PLANS. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.

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21. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 34 FOR THE SECURITY SYSTEM PANEL AND PROVIDE ROUGH IN AND WIRING, AS NEEDED. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
22. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL E1, CKT 23 FOR THE FIRE ALARM CONTROL PANEL. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
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1 / E3.02 POWER PLAN – LEVEL 2
SCALE: 1/8" = 1'-0"

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

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1 PLAN REVIEW 01.24.2020

AEGIS MIXED-USE DEVELOPMENT

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SHEET:
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E3.02

GENERAL POWER NOTES:

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C. ELECTRICAL CONTRACTOR SHALL PROVIDE INSTALLATION AND FINAL CONNECTION OF THERMOSTATS. CONSULT MECHANICAL CONTRACTOR FOR EXACT REQUIREMENTS PRIOR TO ROUGH IN.

D. REFER TO INTERIOR DECORATOR AND/OR ARCHITECTURAL DRAWINGS FOR DIMENSIONED LOCATION(S) AND ELEVATIONS OF FIXTURES & DEVICES. OTHER DEVICES SHOWN ON THE ELECTRICAL PLANS AND NOT INDICATED ON THE DECORATOR'S OR ARCHITECT'S DRAWINGS, SHALL BE INSTALLED AT STANDARD MOUNTING HEIGHT AS INDICATED THE SYMBOL LIST.

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1 / E3.03 POWER PLAN – LEVEL 3
SCALE: 1/8" = 1'-0"

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AEGIS
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SHEET:
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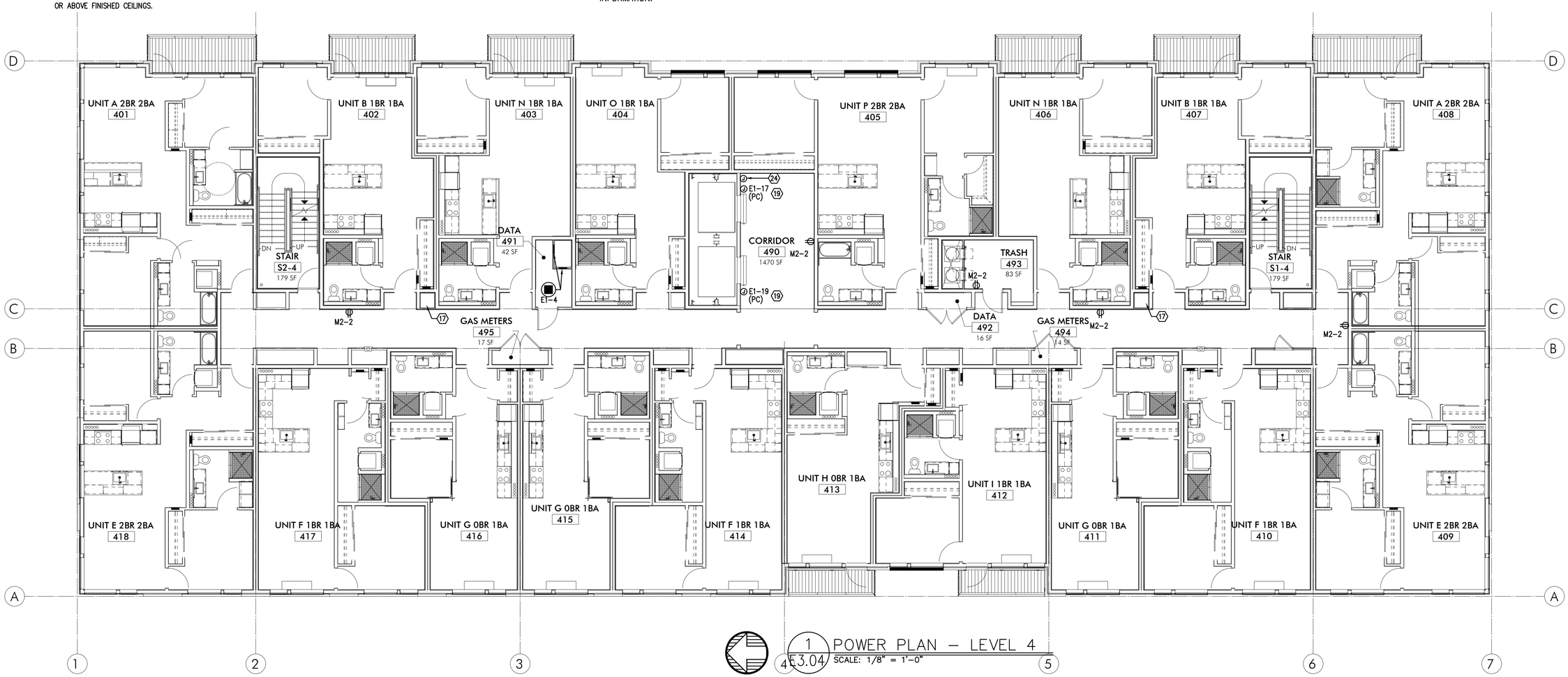
⬡ KEYED NOTES:

1. ROUTE (2) EMPTY 3 1/2" CONDUIT WITH PULL STRING, FROM MC1 UNDER SLAB AND STUB-UP INTO LEASE SPACE FOR TENANT SUPPLIED BRANCH PANEL AND CAP OFF.
2. EXHAUST FAN TO BE TIED INTO LIGHTING CIRCUIT FOR THIS AREA.
3. GENERATOR DISCONNECT. SEE ONE-LINE DIAGRAM ON SHEET E1.11.
4. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR GENERATOR REMOTE ANNUNCIATOR. FED FROM PANEL E1, CKT 27.
5. 20A,120V, 1P POWER CONNECTION FOR BLADE SIGNS. CIRCUIT AS INDICATED VIA LIGHTING CONTROL PANEL. MOUNT JUNCTION BOX TIGHT TO CEILING (AT BUILDING INTERIOR), COORDINATING EXACT LOCATION WITH SIGN INSTALLER'S SLEEVE AND PER ARCHITECT'S DIRECTION AT EACH LOCATION.
6. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 30 FOR BUILDING ENTRY ACCESS CONTROL SYSTEM AND PROVIDE ROUGH IN AND WIRING TO ACCESS POINTS LOCATED ON PLANS. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.

6A. ENTRY ACCESS POINT.

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8. PROVIDE ONE 20A, 120V, 1P CIRCUIT FOR AUTOMATIC DOOR OPENERS.
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10. PACKAGE CONCIERGE SYSTEM. MOUNT DUPLEX RECEPTACLES AT 76" AFF.
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12. ELECTRICAL SERVICE METER ROOMS SHALL HAVE OUTWARD SWING DOORS EQUIPPED WITH PANIC HARDWARE. PROVIDE A KEY BOX AT THE EXTERIOR FOR CLARK PUBLIC UTILITIES 24/7 ACCESS.
13. CONSULT MECHANICAL AND/OR PLUMBING CONTRACTOR FOR EXACT ELECTRICAL REQUIREMENTS OF THE DRINKING FOUNTAIN, IF ANY.
14. PER WASHINGTON STATE ENERGY CODE C405.10, AT LEAST 50% OF THE RECEPTACLES IN THIS SPACE SHALL BE CONTROLLED. RECEPTACLES NOTED WITH '*' SHALL BE CONTROLLED VIA OCCUPANCY SENSOR AND SHALL 'TURN OFF' AFTER A MINIMUM OF 30 MINUTES OF IN-ACTIVITY WITHIN THE SPACE. PROVIDE APPROPRIATE IDENTIFICATION OF EACH CONTROLLED RECEPTACLE. REFER TO THE PANEL SCHEDULES ON E1.12 FOR ADDITIONAL INFORMATION ON WHICH CIRCUIT IS TO BE THE CONTROLLED CIRCUIT.
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16. CEILING MOUNTED 20A DUPLEX RECEPTACLE FOR SECURITY CAMERA. CONSULT ARCHITECT FOR ADDITIONAL INFORMATION.
17. DEDICATED SHAFT FOR THE ROUTING OF ELECTRICAL FEEDERS FROM TENANT METERS TO RESIDENTIAL UNITS.
18. HORIZONTAL RECEPTACLE IN BANQUETTE FACE. REFER TO THE ARCHITECT AND INTERIOR DECORATOR PLANS FOR ADDITIONAL INFORMATION.PROVIDE WITH TYPES A & C USB PORTS, LEVITON T5633-T OR APPROVED EQUAL.
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21. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL H1, CKT 34 FOR THE SECURITY SYSTEM PANEL AND PROVIDE ROUGH IN AND WIRING, AS NEEDED. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
22. PROVIDE ONE 20A, 120V, 1P CIRCUIT FROM PANEL E1, CKT 23 FOR THE FIRE ALARM CONTROL PANEL. CONSULT WITH LOW VOLTAGE SYSTEMS INSTALLER AND THE 'T' SERIES SHEETS FOR ADDITIONAL INFORMATION.
23. PROVIDE EMERGENCY SHUTOFF CONTROLS FOR GAS APPLIANCES LOCATED ON TERRACE. COORDINATE INSTALLATION WITH MECHANICAL CONTRACTOR. CIRCUIT FROM PANEL 'E1'. SEE DETAIL 5/E1.22 FOR EMERGENCY SHUFF-OFF DIAGRAM.
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27. PROVIDE ROUGH IN, AS NEEDED, FOR WIFI SYSTEM. CIRCUIT FROM PANEL 'H1'.
28. CONSULT ARCHITECT AND/OR MECHANICAL PLANS FOR ADDITIONAL INFORMATION REGARDING THE FIREPLACE. PROVIDE ELECTRICAL CONNECTION(S) AS NEEDED FROM PANEL 'H1', CKT 33. PROVIDE 120V TWIST TIMER SWITCH (MAX. 60 MINUTES, "NO HOLD") FOR FIREPLACE IGNITER CONTROLS. INTERCONNECT WITH POWER VENT FAN LOCATED ON ROOF.
29. PROVIDE TWO 20A, 120V CIRCUITS, FROM PANEL 'H1' FOR WALL MOUNTED FANS, PROVIDED BY OTHERS. CONSULT INTERIOR DECORATOR FOR EXACT POWER REQUIREMENTS AND MOUNTING HEIGHTS. PROVIDE CONTROL SWITCH PER MANUFACTURER'S/DECORATOR'S DIRECTION.



1 E3.04 POWER PLAN – LEVEL 4
SCALE: 1/8" = 1'-0"

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

REVISIONS

1 PLAN REVIEW 01.24.2020

AEGIS MIXED-USE DEVELOPMENT

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E3.04

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1 E3.05 POWER PLAN – LEVEL 5
SCALE: 1/8" = 1'-0"

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PROJECT # 2017-053
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REVISIONS

1 PLAN REVIEW 01.24.2020

AEGIS MIXED-USE DEVELOPMENT

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SHEET:
B
E3.05

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1 POWER PLAN – LEVEL 6
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E3.06

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GENERAL POWER NOTES:

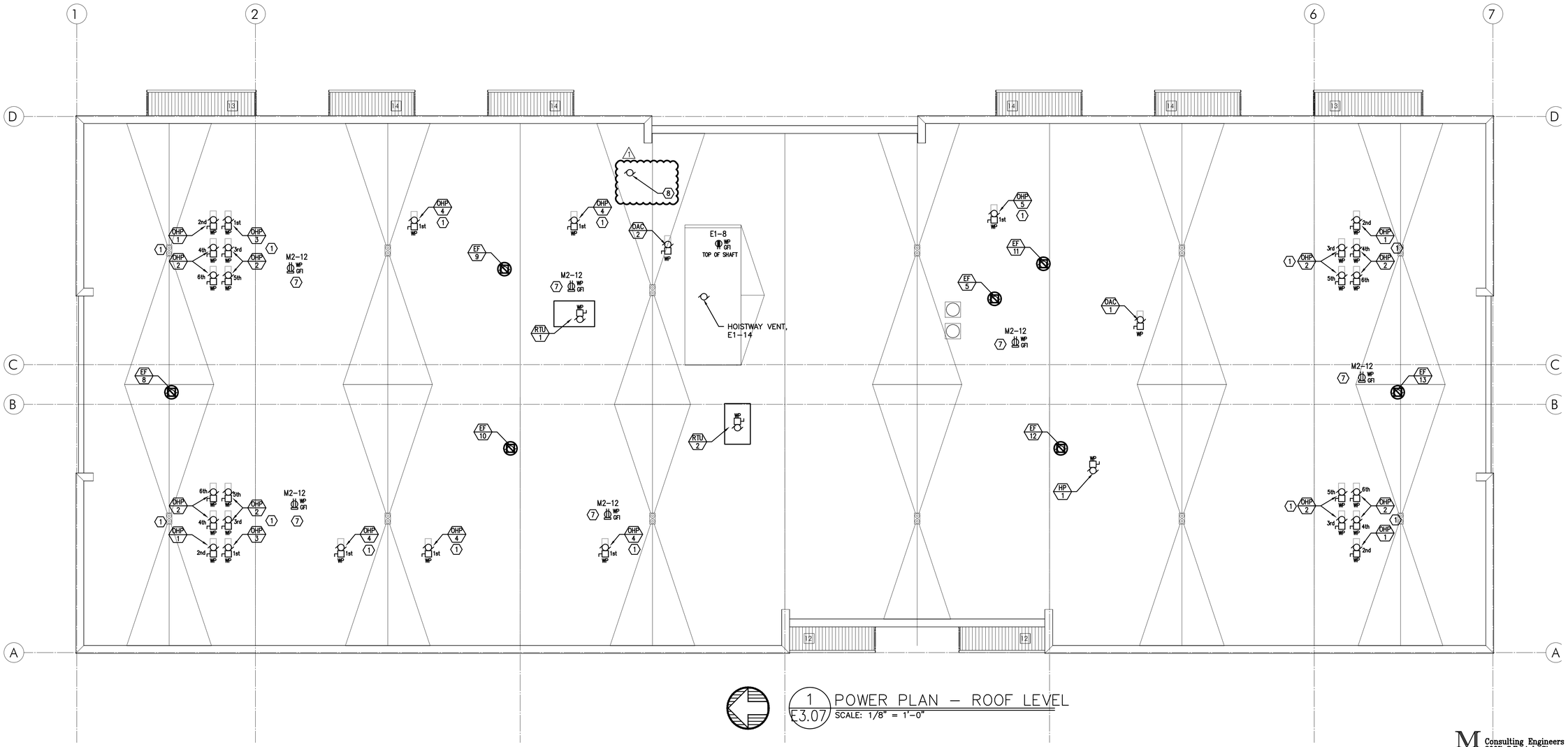
A. ALL PLANS ARE CONSIDERED DIAGRAMMATICAL. THEREFORE ALL EQUIPMENT SIZES AND DEVICE LOCATIONS ARE APPROXIMATE AND SUBJECT TO FIELD CONDITIONS AND PRODUCT APPROVAL.

B. COORDINATE WITH MECHANICAL INSTALLER FOR EXACT POWER REQUIREMENTS AND LOCATIONS PRIOR TO ROUGH IN AND THROUGHOUT CONSTRUCTION.

C. THERE SHALL BE NO SURFACE MOUNTED FIXTURES OR PATHWAYS (CONDUIT, ETC.) IN ANY PUBLICLY ACCESSIBLE SPACES, INCLUDING STAIRWELLS AND EXIT PASSAGEWAYS WITHOUT PRIOR APPROVAL BY OWNER AND ARCHITECT. ROUTE ALL PATHWAYS WITHIN STUD CAVITIES OR ABOVE FINISHED CEILINGS.

◇ KEYED NOTES:

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



1 / E3.07 POWER PLAN – ROOF LEVEL
SCALE: 1/8" = 1'–0"

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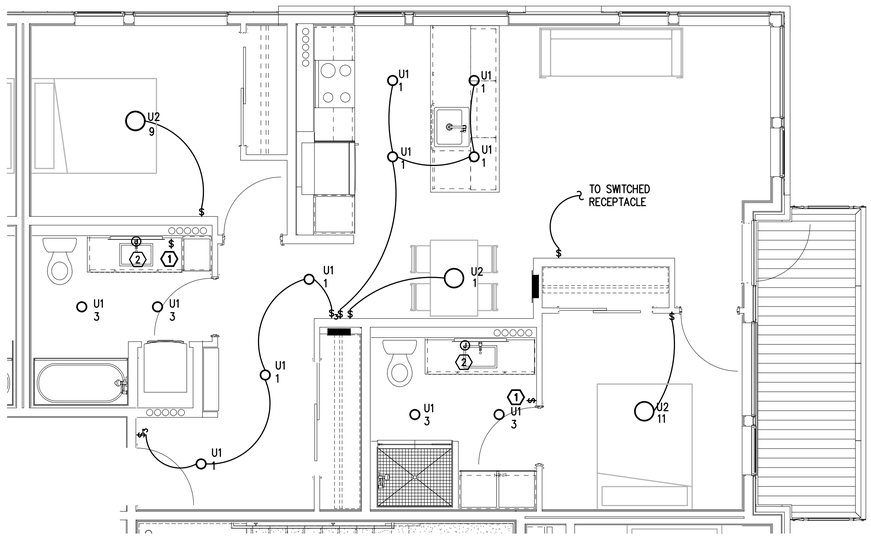
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1 PLAN REVIEW 01.24.2020

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SHEET:
B
E3.07

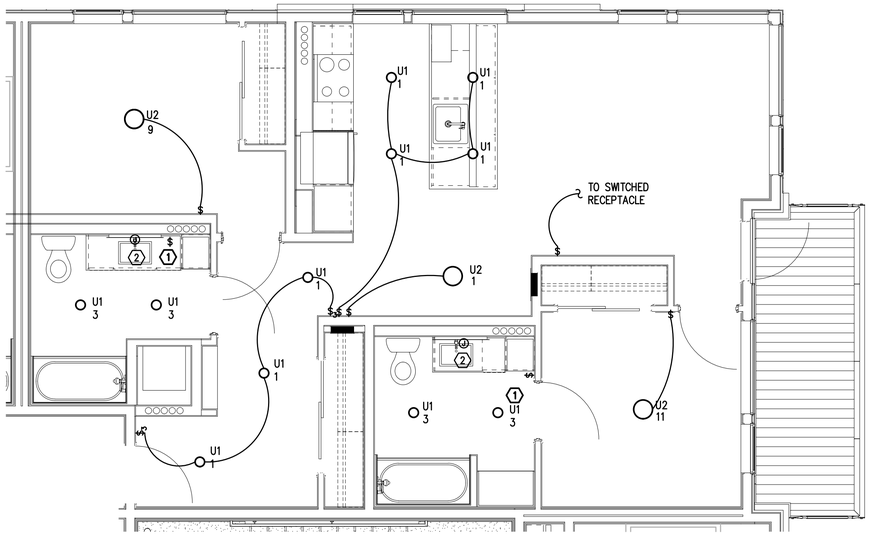
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TYPICAL UNIT TYPE A

1 / E4.01 — 2 BED/2 BATH – LIGHTING PLAN

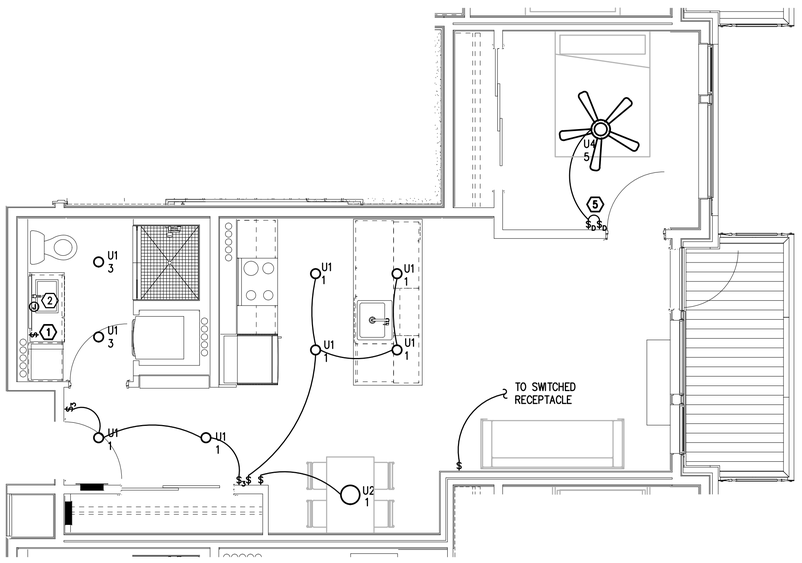
SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE A–ADA

2 / E4.01 — 2 BED/2 BATH – LIGHTING PLAN

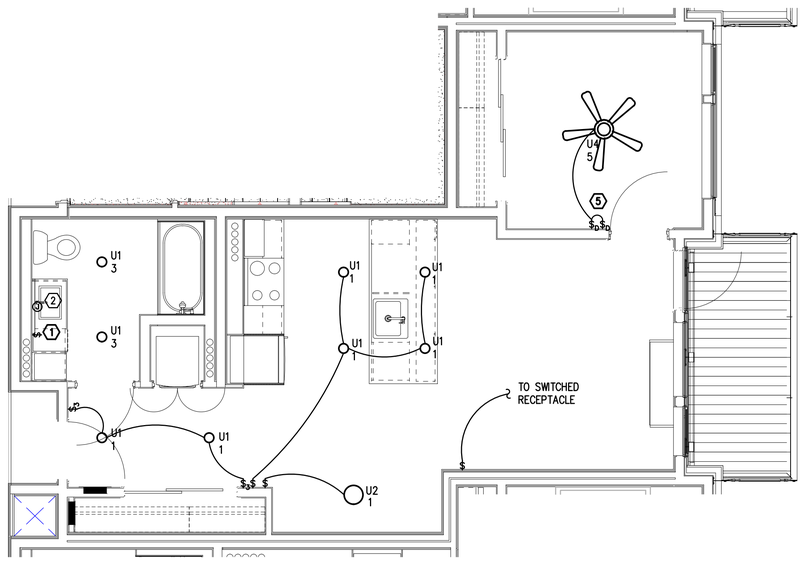
SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE B

3 / E4.01 — 1 BED/1 BATH – LIGHTING PLAN

SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE B–ADA

4 / E4.01 — 1 BED/1 BATH – LIGHTING PLAN

SCALE: 1/4" = 1'-0"

GENERAL NOTES:

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

B. REFER TO SHEET E1.14 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:

1. REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.22.
2. PROVIDE ONE 15A 120V ELECTRICAL CONNECTION (J-BOX), MOUNTED ABOVE VANITY AND TIED INTO THE BATHROOM LIGHT CIRCUIT & SWITCH FOR OWNER PROVIDED BACK-LIT MIRROR. REFER TO MANUFACTURER'S INSTALLATION GUIDE AND COORDINATE EXACT MOUNTING HEIGHT WITH THE INTERIOR DECORATOR AND/OR THE ARCHITECT PRIOR TO ROUGH IN.
3. RECEPTACLE FOR PTHP UNIT SHALL BE LOCATED BELOW THE UNIT, NEAR THE BASE OF THE WALL SUCH THAT THE CORD SET IS CONCEALED AS MUCH AS POSSIBLE. COORDINATE INSTALLATION WITH THE MECHANICAL INSTALLER.
4. LOCATE SWITCH FOR SINK LIGHT AT THE END OF THE COUNTER, JUST UNDER THE EDGE OF THE COUNTER TOP.
5. SWITCHING FOR CEILING FAN SHALL BE MANUFACTURER'S RECOMMENDATION FOR LIGHT AND FAN CONTROL.

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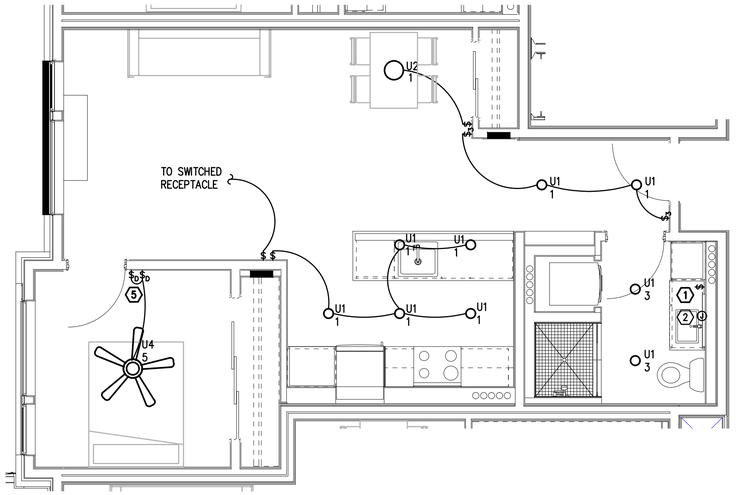
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SHEET: E4.01

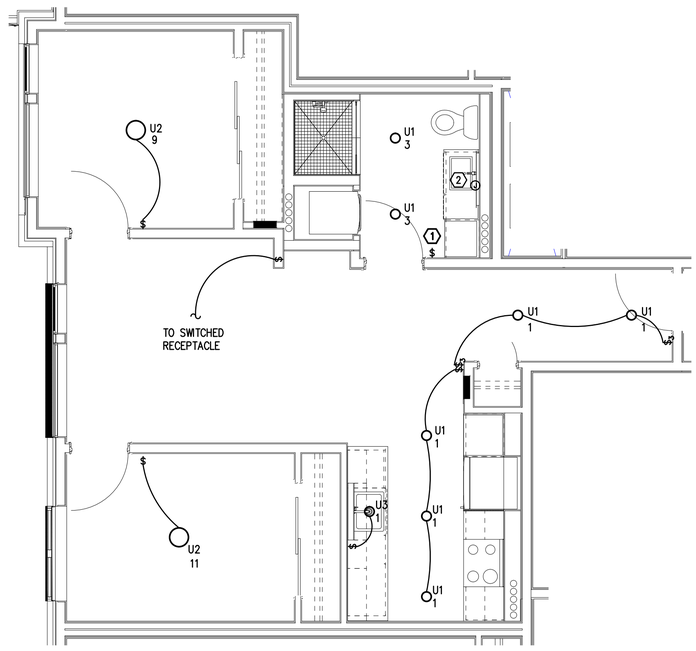
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TYPICAL UNIT TYPE C

1 / E4.02 — 1 BED/1 BATH – LIGHTING PLAN

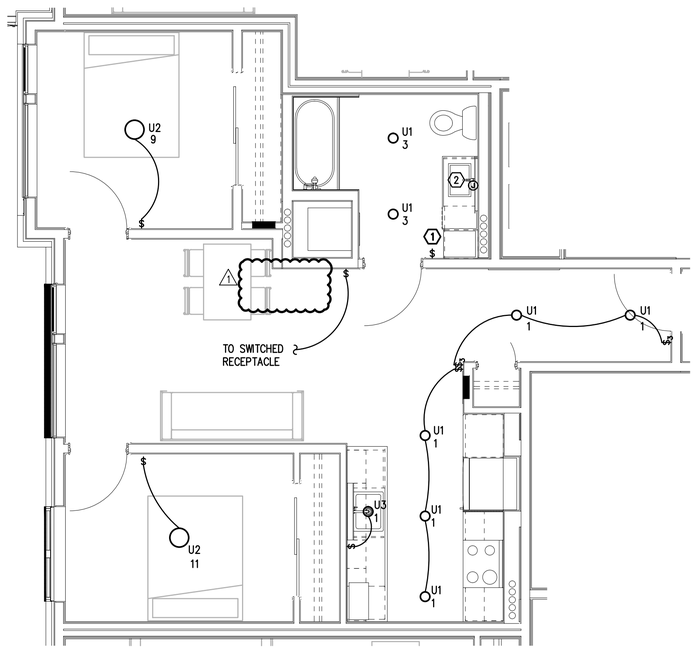
SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE D

2 / E4.02 — 2 BED/1 BATH – LIGHTING PLAN

SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE D–ADA

3 / E4.02 — 2 BED/1 BATH – LIGHTING PLAN

SCALE: 1/4" = 1'-0"

GENERAL NOTES:

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

B. REFER TO SHEET E1.14 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:

1. REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.22.
2. PROVIDE ONE 15A 120V ELECTRICAL CONNECTION (J–BOX OR DUPLEX RECEPTACLE), MOUNTED ABOVE VANITY AND TIED INTO THE BATHROOM LIGHT CIRCUIT & SWITCH FOR OWNER PROVIDED BACK–LIT MIRROR. REFER TO MANUFACTURER'S INSTALLATION GUIDE AND COORDINATE EXACT MOUNTING HEIGHT WITH THE INTERIOR DECORATOR AND/OR THE ARCHITECT PRIOR TO ROUGH IN.
3. RECEPTACLE FOR PTHP UNIT SHALL BE LOCATED BELOW THE UNIT, NEAR THE BASE OF THE WALL SUCH THAT THE CORD SET IS CONCEALED AS MUCH AS POSSIBLE. COORDINATE INSTALLATION WITH THE MECHANICAL INSTALLER.
4. LOCATE SWITCH FOR SINK LIGHT AT THE END OF THE COUNTER, JUST UNDER THE EDGE OF THE COUNTER TOP.
5. SWITCHING FOR CEILING FAN SHALL BE MANUFACTURER'S RECOMMENDATION FOR LIGHT AND FAN CONTROL.

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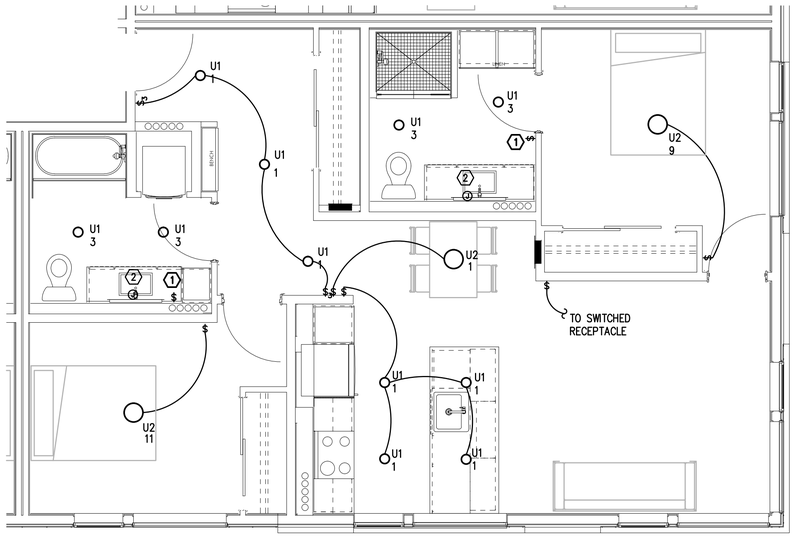
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SHEET: E4.02

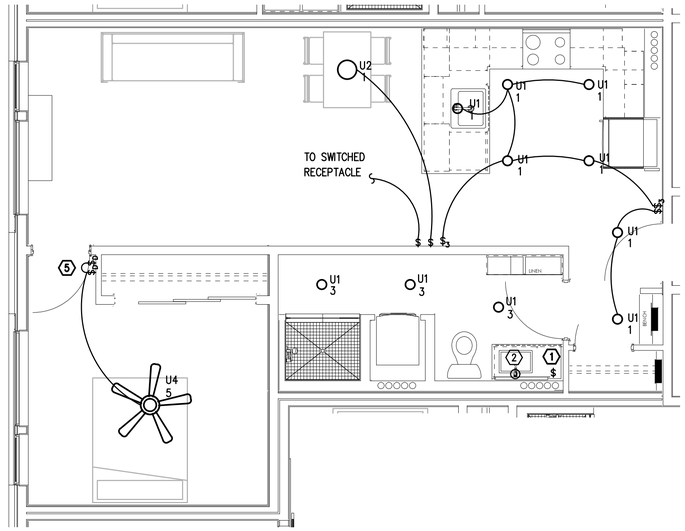
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TYPICAL UNIT TYPE E

2 / E4.02 — 2 BED/2 BATH – LIGHTING PLAN

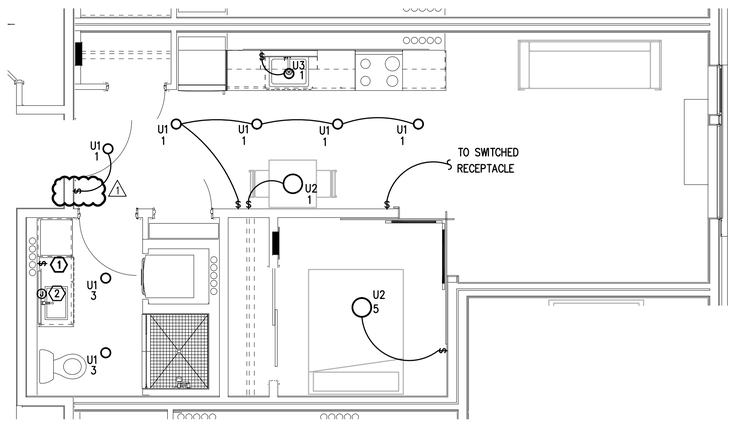
SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE F

3 / E4.02 — 1 BED/1 BATH – LIGHTING PLAN

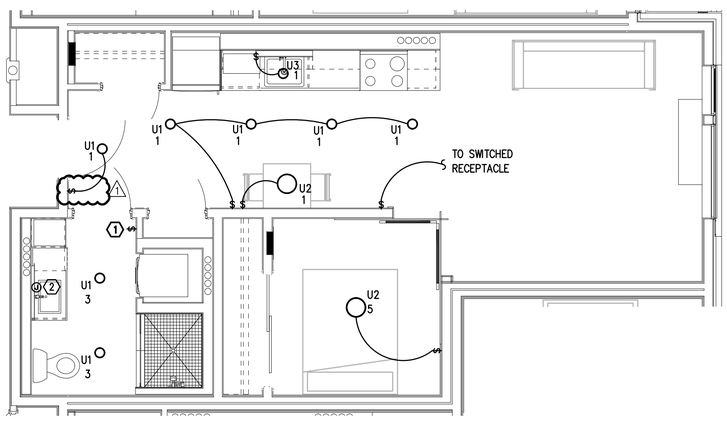
SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE G

1 / E4.03 — 0 BED/1 BATH – LIGHTING PLAN

SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE G–ADA

1 / E4.03 — 0 BED/1 BATH – LIGHTING PLAN

SCALE: 1/4" = 1'-0"

GENERAL NOTES:

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

B. REFER TO SHEET E1.14 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.

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1. REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.22.
2. PROVIDE ONE 15A 120V ELECTRICAL CONNECTION (J-BOX), MOUNTED ABOVE VANITY AND TIED INTO THE BATHROOM LIGHT CIRCUIT & SWITCH FOR OWNER PROVIDED BACK-LIT MIRROR. REFER TO MANUFACTURER'S INSTALLATION GUIDE AND COORDINATE EXACT MOUNTING HEIGHT WITH THE INTERIOR DECORATOR AND/OR THE ARCHITECT PRIOR TO ROUGH IN.
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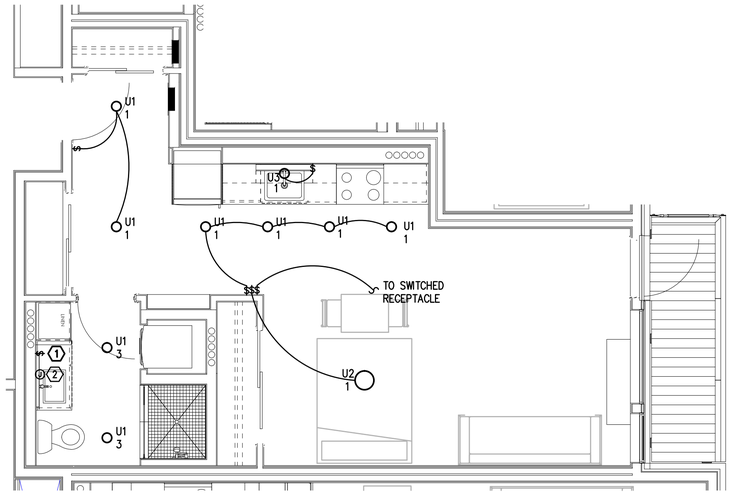
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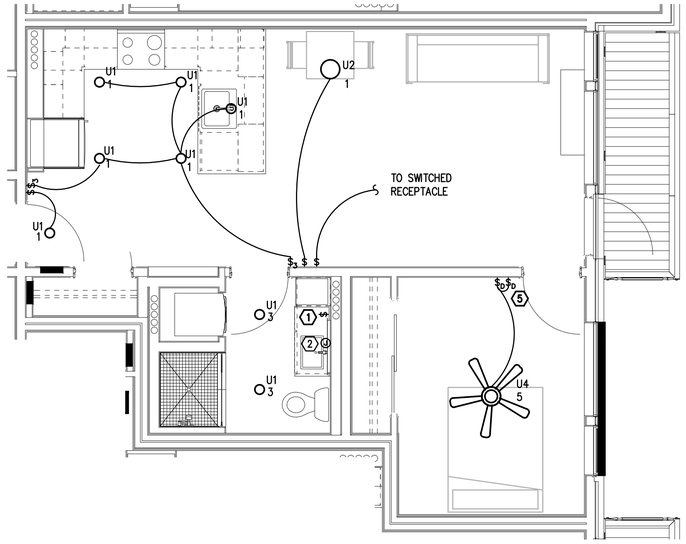
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TYPICAL UNIT TYPE H

2 / E4.03 — 0 BED/1 BATH – LIGHTING PLAN

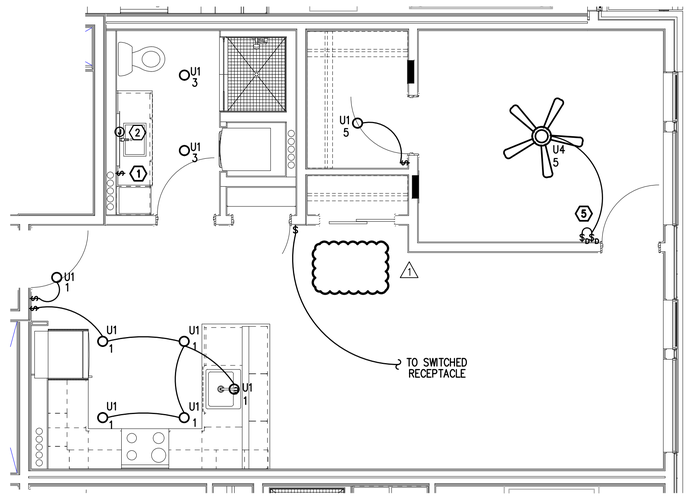
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TYPICAL UNIT TYPE I

3 / E4.03 — 1 BED/1 BATH – LIGHTING PLAN

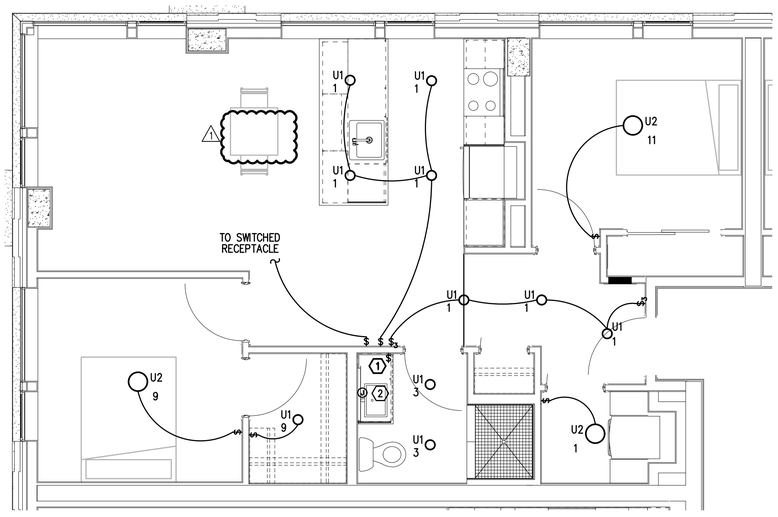
SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE J

1 / E4.04 — 1 BED/1 BATH – LIGHTING PLAN

SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE K

2 / E4.04 — 2 BED/1 BATH – LIGHTING PLAN

SCALE: 1/4" = 1'-0"

GENERAL NOTES:

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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:

1. REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.22.
2. PROVIDE ONE 15A 120V ELECTRICAL CONNECTION (J-BOX), MOUNTED ABOVE VANITY AND TIED INTO THE BATHROOM LIGHT CIRCUIT & SWITCH FOR OWNER PROVIDED BACK-LIT MIRROR. REFER TO MANUFACTURER'S INSTALLATION GUIDE AND COORDINATE EXACT MOUNTING HEIGHT WITH THE INTERIOR DECORATOR AND/OR THE ARCHITECT PRIOR TO ROUGH IN.
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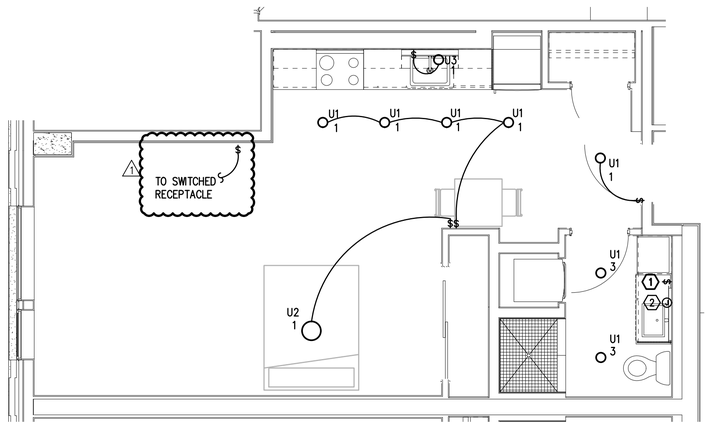
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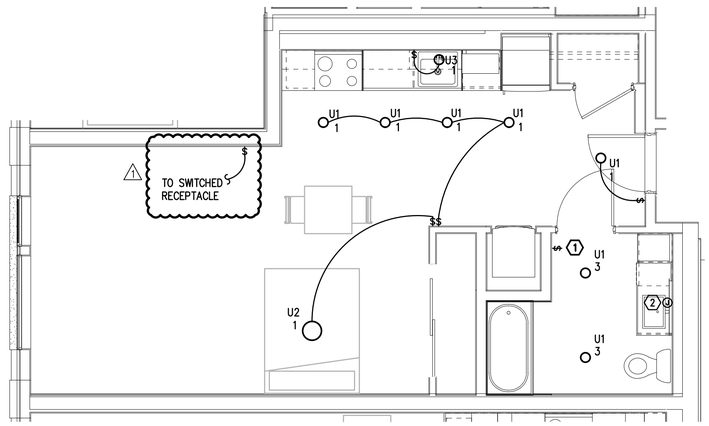
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TYPICAL UNIT TYPE L

1 / E4.05 — 0 BED/1 BATH – LIGHTING PLAN

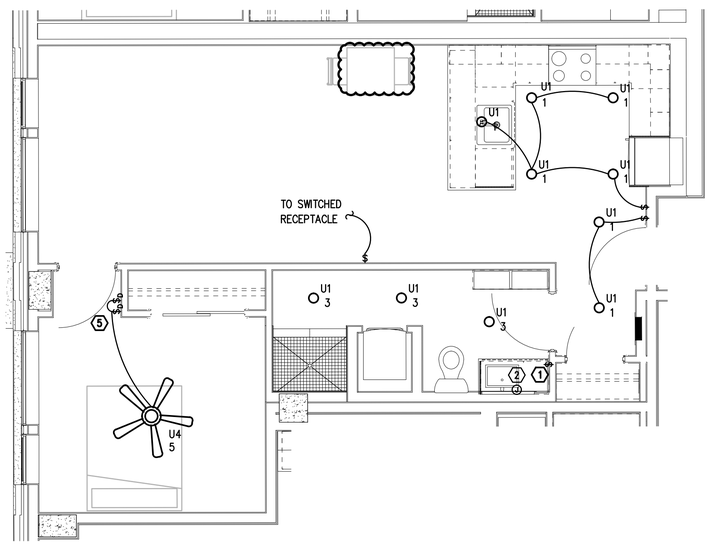
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TYPICAL UNIT TYPE L-ADA

1 / E4.05 — 0 BED/1 BATH – LIGHTING PLAN

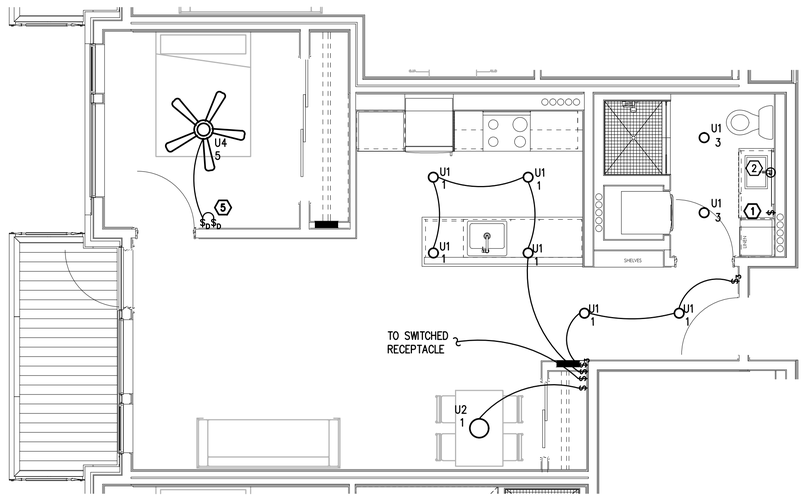
SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE M

2 / E4.05 — 1 BED/1 BATH – LIGHTING PLAN

SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE N

3 / E4.05 — 1 BED/1 BATH – LIGHTING PLAN

SCALE: 1/4" = 1'-0"

GENERAL NOTES:

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

B. REFER TO SHEET E1.14 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:

1. REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.22.
2. PROVIDE ONE 15A 120V ELECTRICAL CONNECTION (J-BOX), MOUNTED ABOVE VANITY AND TIED INTO THE BATHROOM LIGHT CIRCUIT & SWITCH FOR OWNER PROVIDED BACK-LIT MIRROR. REFER TO MANUFACTURER'S INSTALLATION GUIDE AND COORDINATE EXACT MOUNTING HEIGHT WITH THE INTERIOR DECORATOR AND/OR THE ARCHITECT PRIOR TO ROUGH IN.
3. RECEPTACLE FOR PTHP UNIT SHALL BE LOCATED BELOW THE UNIT, NEAR THE BASE OF THE WALL SUCH THAT THE CORD SET IS CONCEALED AS MUCH AS POSSIBLE. COORDINATE INSTALLATION WITH THE MECHANICAL INSTALLER.
4. LOCATE SWITCH FOR SINK LIGHT AT THE END OF THE COUNTER, JUST UNDER THE EDGE OF THE COUNTER TOP.
5. SWITCHING FOR CEILING FAN SHALL BE MANUFACTURER'S RECOMMENDATION FOR LIGHT AND FAN CONTROL.

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EXPIRES: July 5th, 2020

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DATE: 11/06/2019

REVISIONS

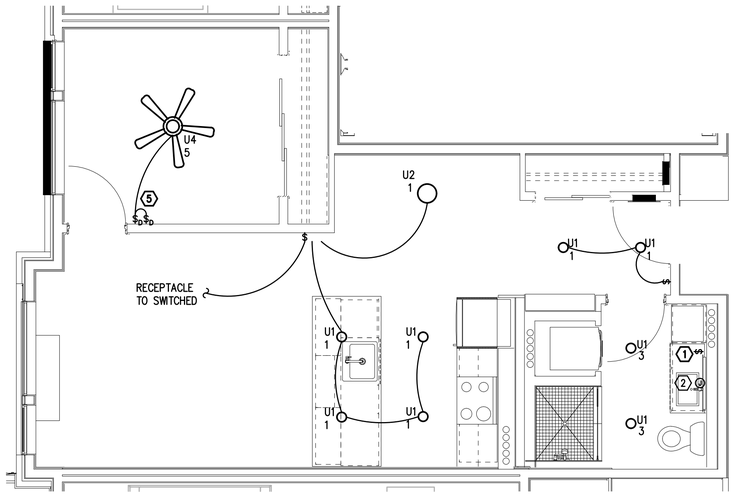
1 PLAN REVIEW 01.24.2020

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SHEET: E4.05

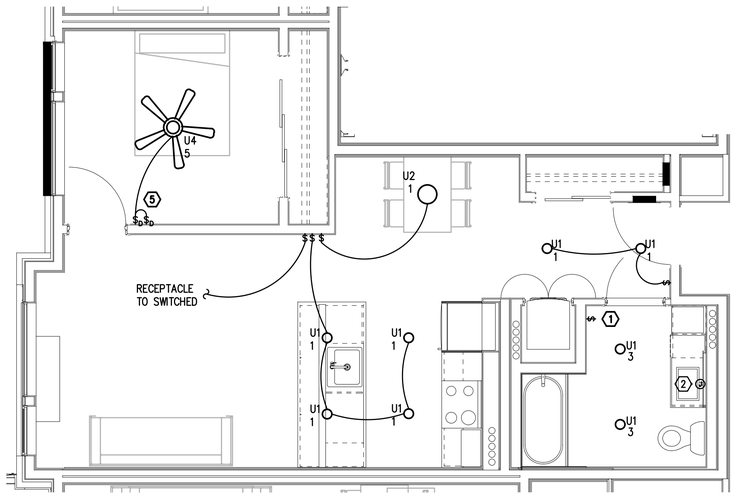
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TYPICAL UNIT TYPE O

1 / E4.06 — 1 BED/1 BATH – LIGHTING PLAN

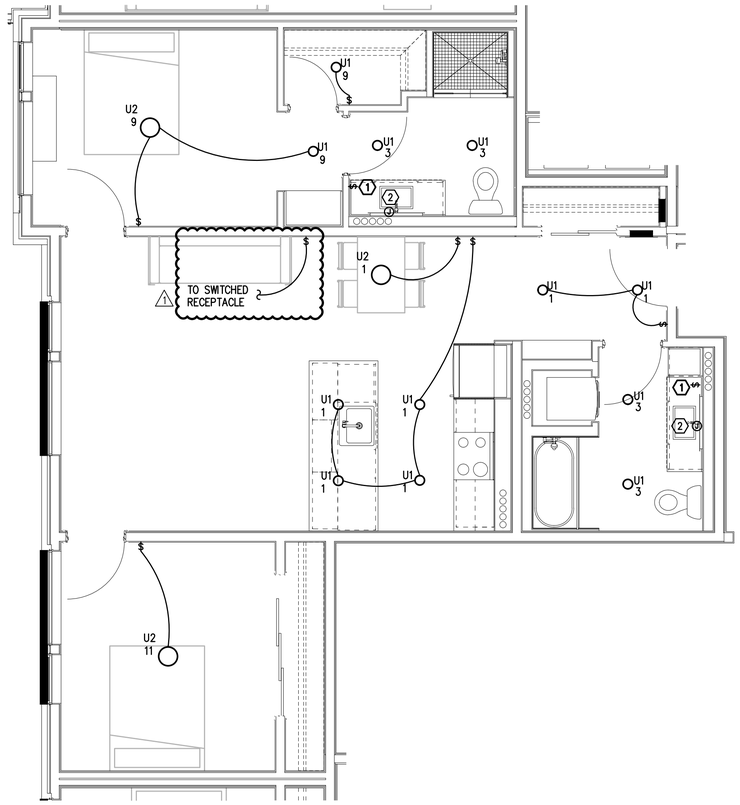
SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE O–ADA

1 / E4.06 — 1 BED/1 BATH – LIGHTING PLAN

SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE P

2 / E4.06 — 2 BED/2 BATH – LIGHTING PLAN

SCALE: 1/4" = 1'-0"

GENERAL NOTES:

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

B. REFER TO SHEET E1.14 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:

1. REFER TO TYPICAL BATHROOM SWITCHING DETAILS ON SHEET E1.22.
2. PROVIDE ONE 15A 120V ELECTRICAL CONNECTION (J–BOX), MOUNTED ABOVE VANITY AND TIED INTO THE BATHROOM LIGHT CIRCUIT & SWITCH FOR OWNER PROVIDED BACK–LIT MIRROR. REFER TO MANUFACTURER'S INSTALLATION GUIDE AND COORDINATE EXACT MOUNTING HEIGHT WITH THE INTERIOR DECORATOR AND/OR THE ARCHITECT PRIOR TO ROUGH IN.
3. RECEPTACLE FOR PTHP UNIT SHALL BE LOCATED BELOW THE UNIT, NEAR THE BASE OF THE WALL SUCH THAT THE CORD SET IS CONCEALED AS MUCH AS POSSIBLE. COORDINATE INSTALLATION WITH THE MECHANICAL INSTALLER.
4. LOCATE SWITCH FOR SINK LIGHT AT THE END OF THE COUNTER, JUST UNDER THE EDGE OF THE COUNTER TOP.
5. SWITCHING FOR CEILING FAN SHALL BE MANUFACTURER'S RECOMMENDATION FOR LIGHT AND FAN CONTROL.

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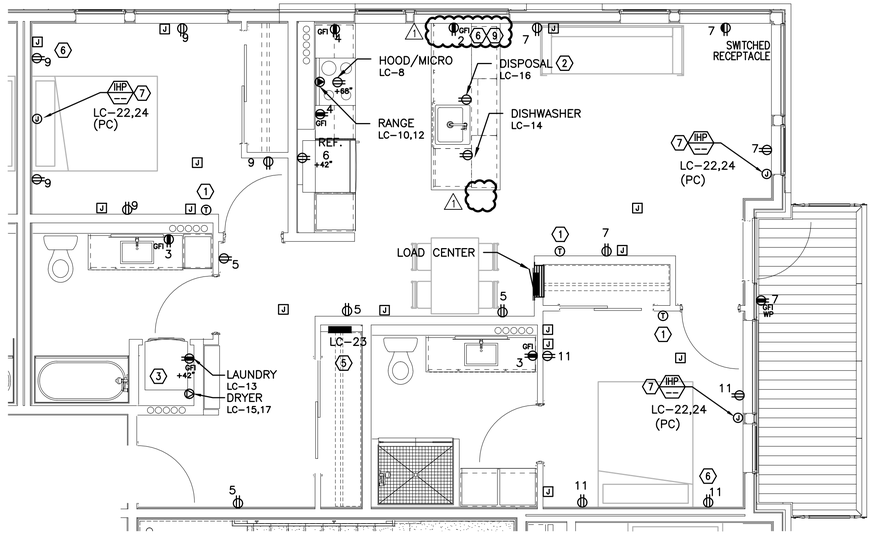
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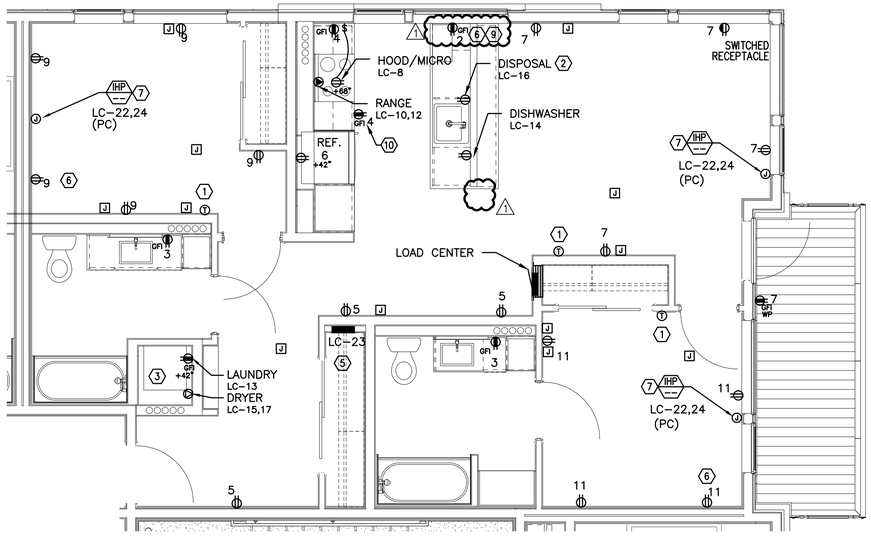
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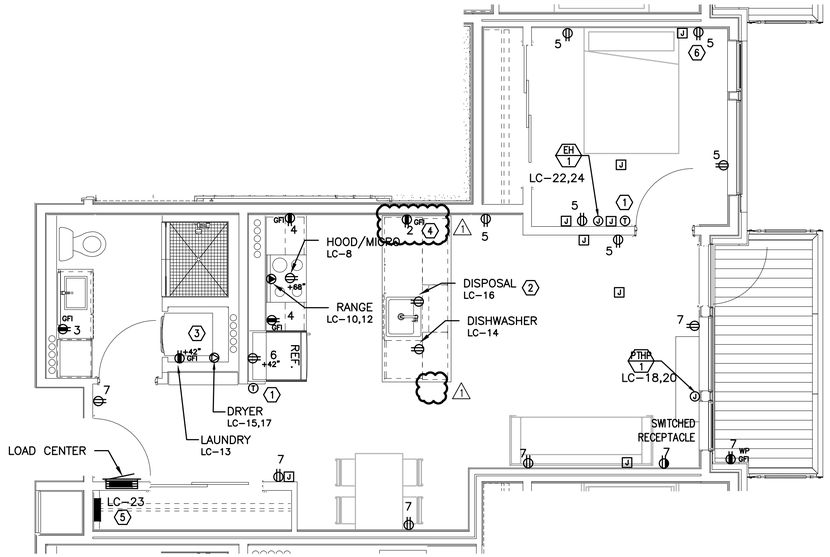
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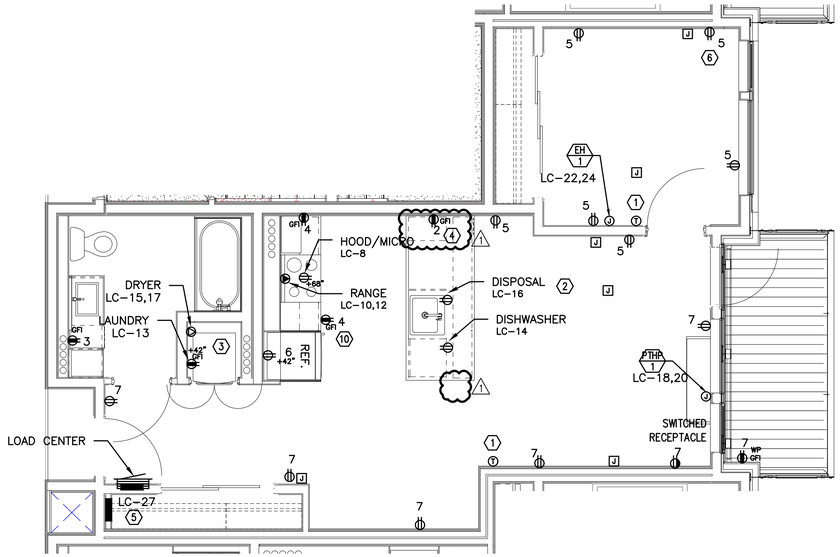
TYPICAL UNIT TYPE A
1 / E4.11 — 2 BED/2 BATH – POWER PLAN
SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE A–ADA
2 / E4.11 — 2 BED/2 BATH – POWER PLAN
SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE B
3 / E4.11 — 1 BED/1 BATH – POWER PLAN
SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE B–ADA
4 / E4.11 — 1 BED/1 BATH – POWER PLAN
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

A. KITCHEN RECEPTACLES LOCATED IN ISLANDS OR PENINSULAS WHERE THE BACK SPLASH WILL NOT ACCOMMODATE VERTICAL PLACEMENT OR THE DUPLEX RECEPTACLE, THE CONTRACTOR SHALL ROTATE THE DEVICE 90 DEGREES SO THAT THE RECEPTACLE IS INSTALLED HORIZONTALLY.

B. REFER TO DETAILS ON SHEET E1.23 FOR ADDITIONAL INFORMATION REGARDING ADA REACH REQUIREMENTS FOR RECEPTACLE AND SWITCH MOUNTING HEIGHT.

C. STANDARD RECEPTACLE MOUNTING HEIGHT IS 18" A.F.F. UNLESS OTHERWISE SPECIFIED. RECEPTACLES LOCATED BELOW WINDOW SILLS SHALL NOT BE LESS THE 15" A.F.F.

D. ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL DEVICES AND FIXTURES.

E. REFER TO SHEET E1.17 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

F. RECEPTACLE FOR PTHP UNIT SHALL BE LOCATED BELOW THE UNIT, NEAR THE BASE OF THE WALL SUCH THAT THE CORD SET IS CONCEALED AS MUCH AS POSSIBLE. COORDINATE INSTALLATION WITH THE MECHANICAL INSTALLER.

G. COORDINATE WITH THE 'T' SERIES SHEETS AND PROVIDE ROUGH IN FOR LOW VOLTAGE SYSTEMS (J) REFERS TO ROUGH IN BOXES.

⬡ KEYED NOTES:

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

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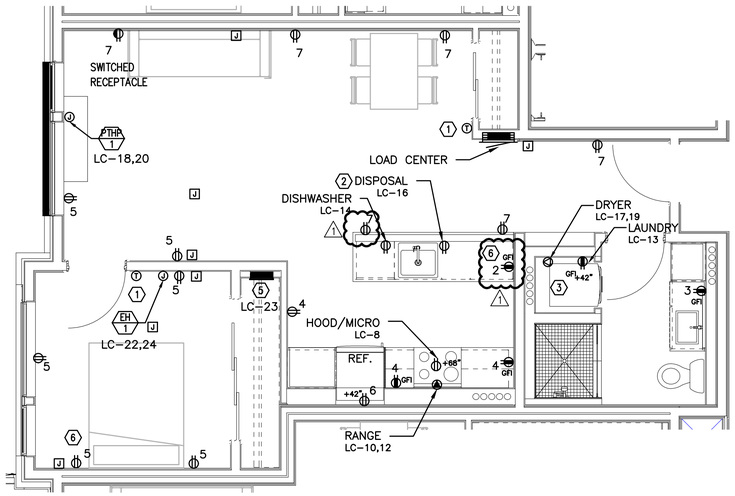
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⚠1 PLAN REVIEW 01.24.2020

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SHEET:
E4.11

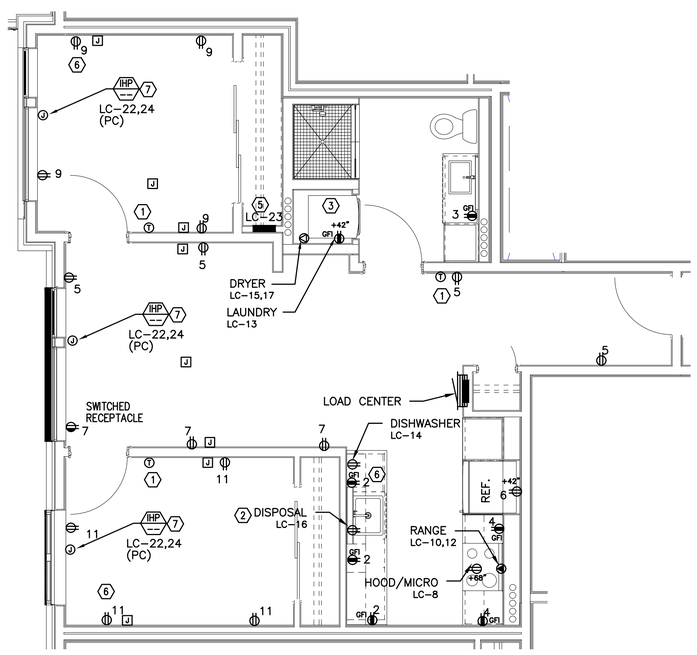
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TYPICAL UNIT TYPE C

1 / E4.12 — 1 BED/1 BATH – POWER PLAN

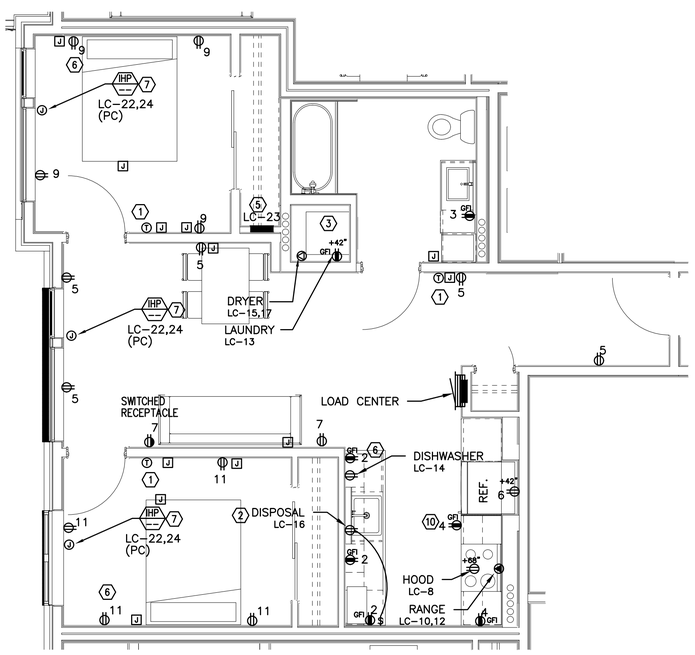
SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE D

2 / E4.12 — 2 BED/1 BATH – POWER PLAN

SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE D-ADA

3 / E4.12 — 2 BED/1 BATH – POWER PLAN

SCALE: 1/4" = 1'-0"

GENERAL NOTES:

A. KITCHEN RECEPTACLES LOCATED IN ISLANDS OR PENINSULAS WHERE THE BACK SPLASH WILL NOT ACCOMMODATE VERTICAL PLACEMENT OR THE DUPLEX RECEPTACLE, THE CONTRACTOR SHALL ROTATE THE DEVICE 90 DEGREES SO THAT THE RECEPTACLE IS INSTALLED HORIZONTALLY.

B. REFER TO DETAILS ON SHEET E1.23 FOR ADDITIONAL INFORMATION REGARDING ADA REACH REQUIREMENTS FOR RECEPTACLE AND SWITCH MOUNTING HEIGHT.

C. STANDARD RECEPTACLE MOUNTING HEIGHT IS 18" A.F.F. UNLESS OTHERWISE SPECIFIED. RECEPTACLES LOCATED BELOW WINDOW SILLS SHALL NOT BE LESS THE 15" A.F.F.

D. ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL DEVICES AND FIXTURES.

E. REFER TO SHEET E1.14 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

F. RECEPTACLE FOR PTHP UNIT SHALL BE LOCATED BELOW THE UNIT, NEAR THE BASE OF THE WALL SUCH THAT THE CORD SET IS CONCEALED AS MUCH AS POSSIBLE. COORDINATE INSTALLATION WITH THE MECHANICAL INSTALLER.

G. COORDINATE WITH THE 'T' SERIES SHEETS AND PROVIDE ROUGH IN FOR LOW VOLTAGE SYSTEMS (ⓙ) REFERS TO ROUGH IN BOXES.

KEYED NOTES:

1. PROVIDE WIRE CONNECTION FOR THERMOSTAT(S). COORDINATE WITH MECHANICAL INSTALLER FOR EXACT LOCATION AND POWER REQUIREMENTS PRIOR TO ROUGH IN.
2. PROVIDE ONE 20A, 120V, 1P GFIC DUPLEX RECEPTACLE UNDER KITCHEN SINK FOR DISPOSAL POWER CONNECTION. DISPOSAL TO BE PROVIDED WITH "SAFEAIRE" SINK DISPOSAL AIR SWITCH, MOUNTED PER ARCHITECT'S DIRECTION. VERIFY DEVICE FINISH WITH ARCHITECT PRIOR TO ORDERING.
3. REFER TO DETAIL 2/E1.17 FOR TYPICAL LAUNDRY ALCOVE RECEPTACLE LOCATIONS. COORDINATE INSTALLATION WITH MECHANICAL & PLUMBING CONTRACTOR.
4. MOUNT DEVICES HORIZONTALLY, JUST UNDER THE EDGE OF THE COUNTER TOP.
5. PROVIDE ONE 15A, RECEPTACLE CIRCUIT FROM TENANT LOAD CENTER FOR TELECOM SMART PANEL. COORDINATE WORK WITH SERVICE PROVIDER FOR EXACT LOCATION AND FINAL CONNECTION.
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8. COORDINATE WITH MECHANICAL EQUIPMENT INSTALLER FOR EXACT POWER REQUIREMENTS, CONTROLS & LOCATION OF THRU-WALL FAN. TIE INTO BEDROOM RECEPTACLE CIRCUIT.
9. MOUNT DEVICES HORIZONTALLY, UNDER WINDOW SILL.
10. RECEPTACLE MOUNTED IN FACE OF CABINET.
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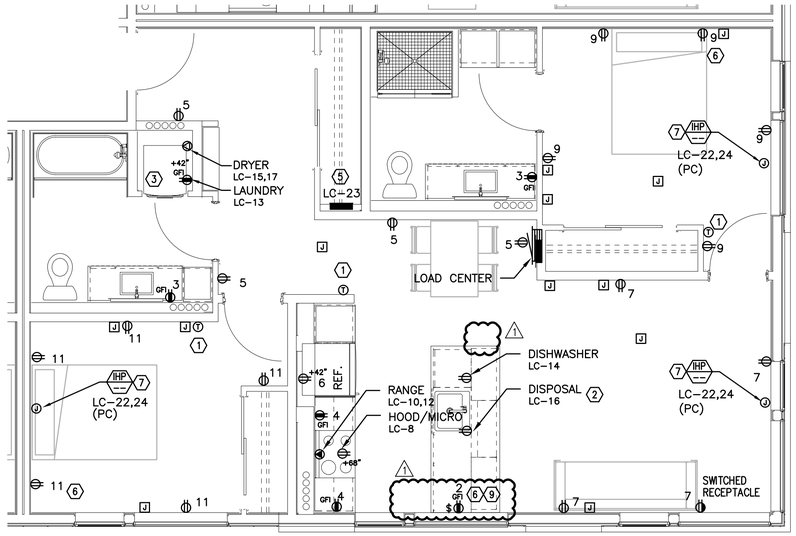
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SHEET:

E4.12

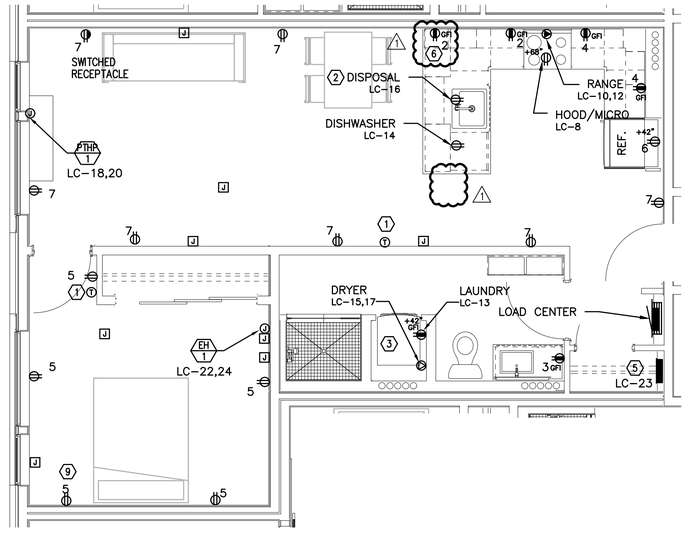
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TYPICAL UNIT TYPE E

1 / E4.13 — 2 BED/2 BATH – POWER PLAN

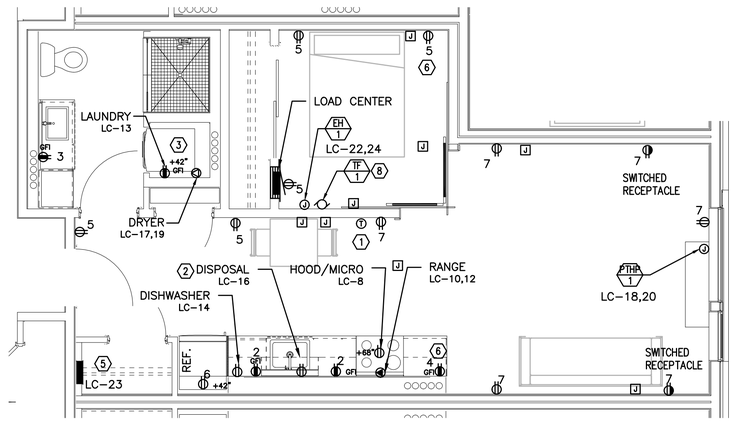
SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE F

2 / E4.13 — 1 BED/1 BATH – POWER PLAN

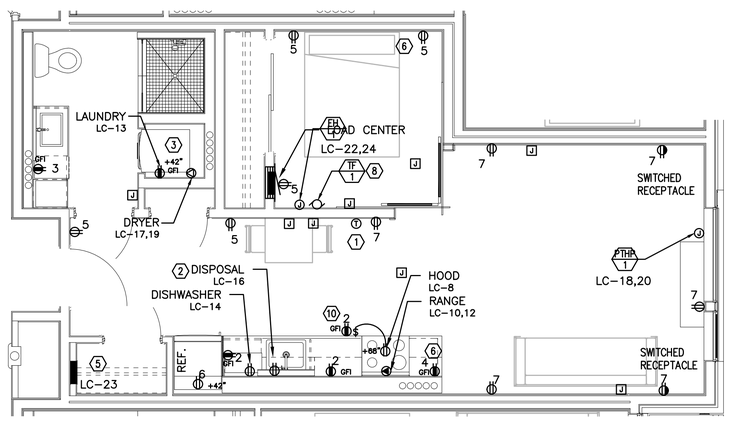
SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE G

3 / E4.13 — 0 BED/1 BATH – POWER PLAN

SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE G-ADA

4 / E4.13 — 0 BED/1 BATH – POWER PLAN

SCALE: 1/4" = 1'-0"

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B. REFER TO DETAILS ON SHEET E1.23 FOR ADDITIONAL INFORMATION REGARDING ADA REACH REQUIREMENTS FOR RECEPTACLE AND SWITCH MOUNTING HEIGHT.

C. STANDARD RECEPTACLE MOUNTING HEIGHT IS 18" A.F.F. UNLESS OTHERWISE SPECIFIED. RECEPTACLES LOCATED BELOW WINDOW SILLS SHALL NOT BE LESS THE 15" A.F.F.

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2. PROVIDE ONE 20A, 120V, 1P GFIC DUPLEX RECEPTACLE UNDER KITCHEN SINK FOR DISPOSAL POWER CONNECTION. DISPOSAL TO BE PROVIDED WITH "SAFEAIRE" SINK DISPOSAL AIR SWITCH, MOUNTED PER ARCHITECT'S DIRECTION. VERIFY DEVICE FINISH WITH ARCHITECT PRIOR TO ORDERING.
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PROJECT # 2017-053
DATE: 11/06/2019

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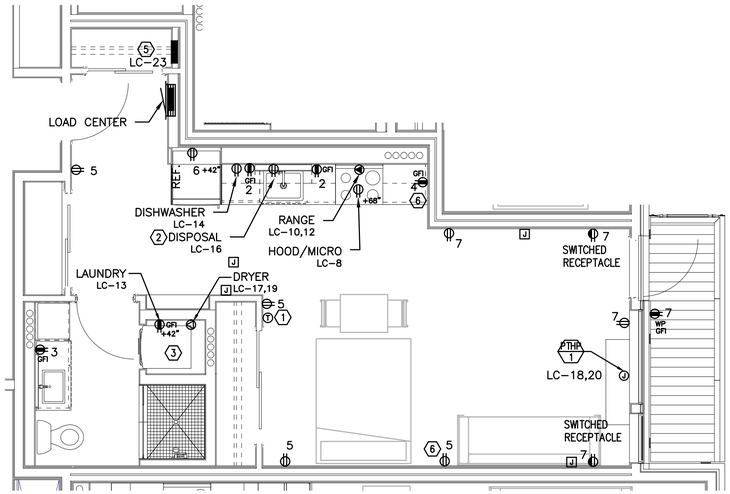
1 PLAN REVIEW 01.24.2020

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

SHEET:

E4.13

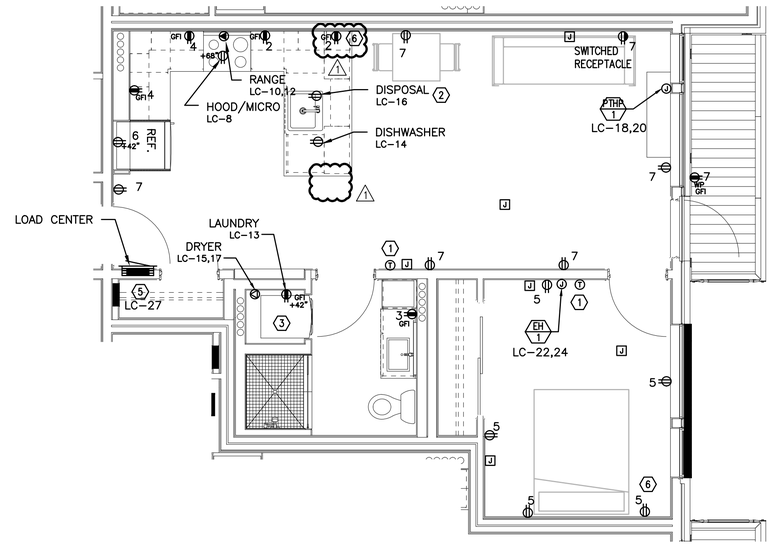
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TYPICAL UNIT TYPE H

1 / E4.14 — 0 BED/2 BATH – POWER PLAN

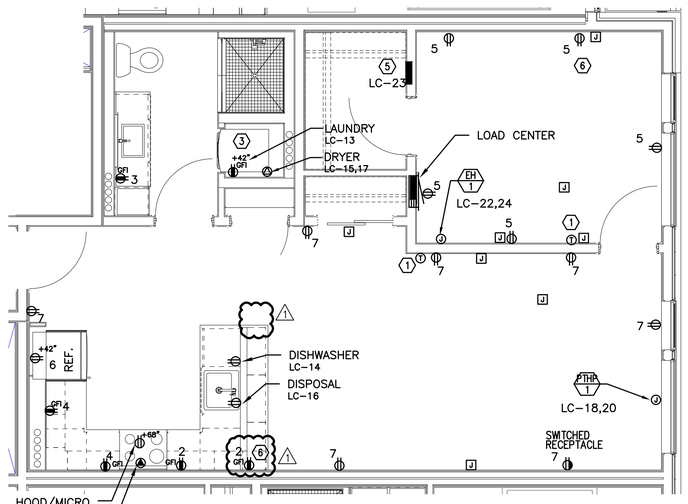
SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE I

2 / E4.14 — 1 BED/1 BATH – POWER PLAN

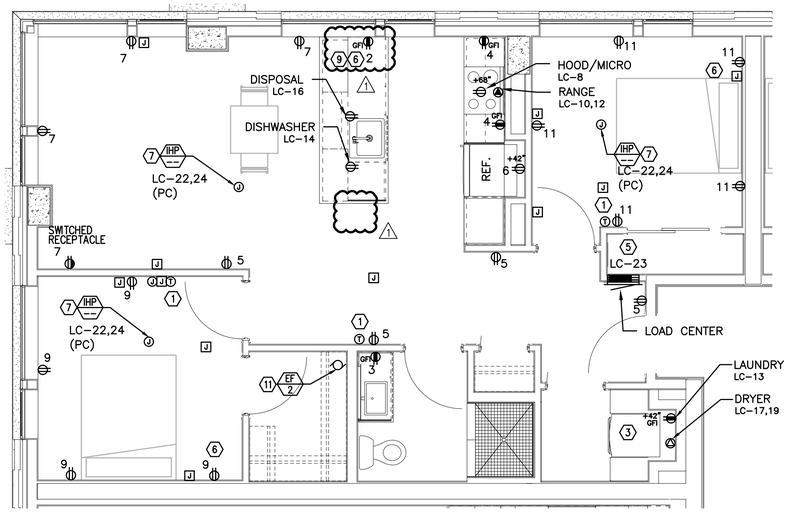
SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE J

3 / E4.14 — 1 BED/1 BATH – POWER PLAN

SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE K

4 / E4.14 — 2 BED/1 BATH – POWER PLAN

SCALE: 1/4" = 1'-0"

GENERAL NOTES:

A. KITCHEN RECEPTACLES LOCATED IN ISLANDS OR PENINSULAS WHERE THE BACK SPLASH WILL NOT ACCOMMODATE VERTICAL PLACEMENT OR THE DUPLEX RECEPTACLE, THE CONTRACTOR SHALL ROTATE THE DEVICE 90 DEGREES SO THAT THE RECEPTACLE IS INSTALLED HORIZONTALLY.

B. REFER TO DETAILS ON SHEET E1.23 FOR ADDITIONAL INFORMATION REGARDING ADA REACH REQUIREMENTS FOR RECEPTACLE AND SWITCH MOUNTING HEIGHT.

C. STANDARD RECEPTACLE MOUNTING HEIGHT IS 18" A.F.F. UNLESS OTHERWISE SPECIFIED. RECEPTACLES LOCATED BELOW WINDOW SILLS SHALL NOT BE LESS THE 15" A.F.F.

D. ALL PLANS ARE DIAGRAMMATICAL. CONSULT ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT LOCATION AND MOUNTING HEIGHT OF ALL DEVICES AND FIXTURES.

E. REFER TO SHEET E1.14 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

F. RECEPTACLE FOR PTHP UNIT SHALL BE LOCATED BELOW THE UNIT, NEAR THE BASE OF THE WALL SUCH THAT THE CORD SET IS CONCEALED AS MUCH AS POSSIBLE. COORDINATE INSTALLATION WITH THE MECHANICAL INSTALLER.

G. COORDINATE WITH THE 'T' SERIES SHEETS AND PROVIDE ROUGH IN FOR LOW VOLTAGE SYSTEMS ([J]) REFERS TO ROUGH IN BOXES.

KEYED NOTES:

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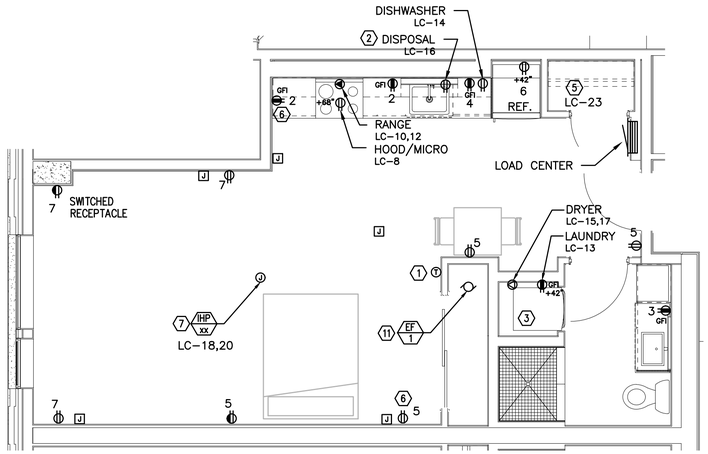
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SHEET:

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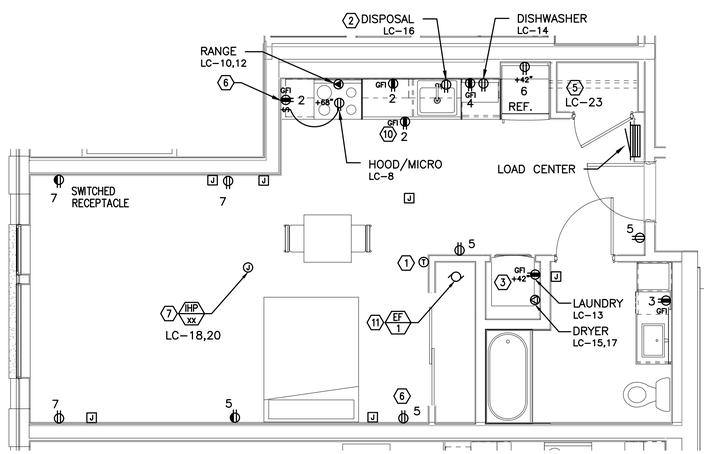
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TYPICAL UNIT TYPE L

1 / E4.15 — 0 BED/1 BATH – POWER PLAN

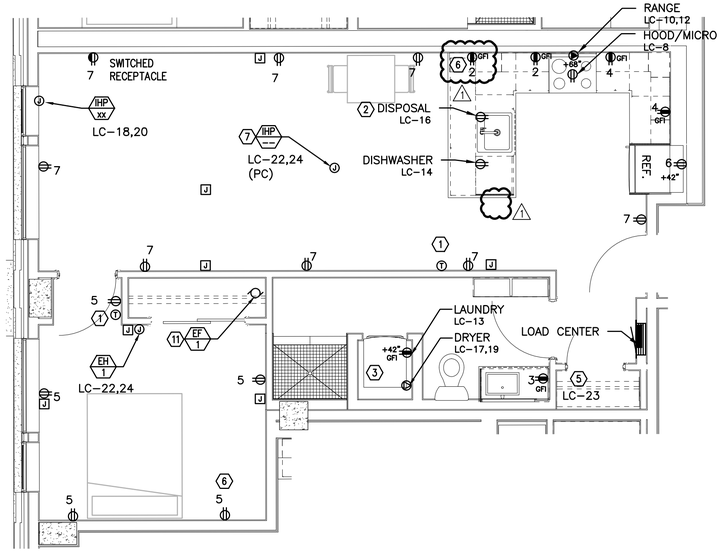
SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE L–ADA

2 / E4.15 — 0 BED/1 BATH – POWER PLAN

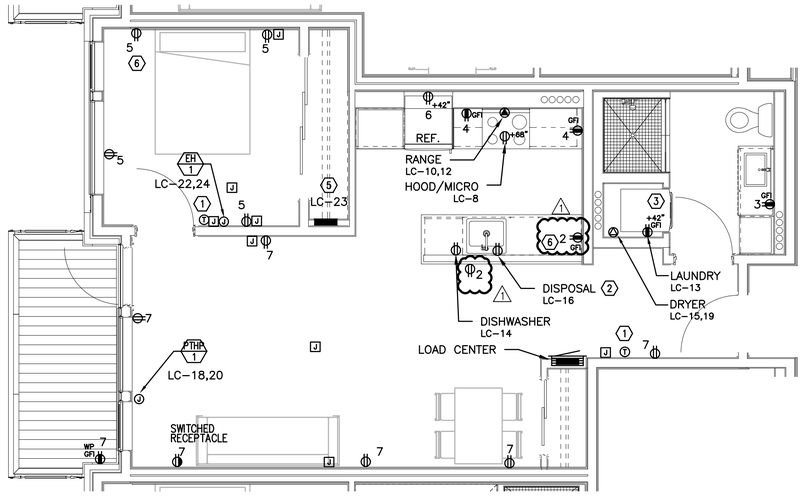
SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE M

3 / E4.15 — 1 BED/1 BATH – POWER PLAN

SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE N

4 / E4.15 — 1 BED/1 BATH – POWER PLAN

SCALE: 1/4" = 1'-0"

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E. REFER TO SHEET E1.14 FOR TYPICAL UNIT LOAD CENTER DIRECTORIES.

F. RECEPTACLE FOR PTHP UNIT SHALL BE LOCATED BELOW THE UNIT, NEAR THE BASE OF THE WALL SUCH THAT THE CORD SET IS CONCEALED AS MUCH AS POSSIBLE. COORDINATE INSTALLATION WITH THE MECHANICAL INSTALLER.

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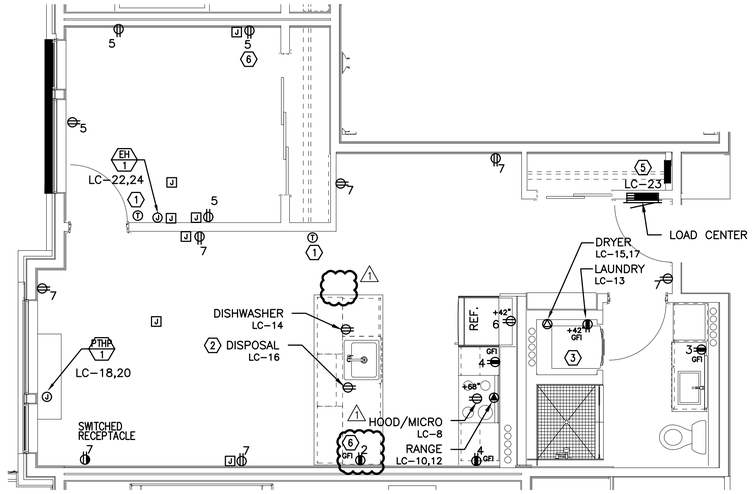
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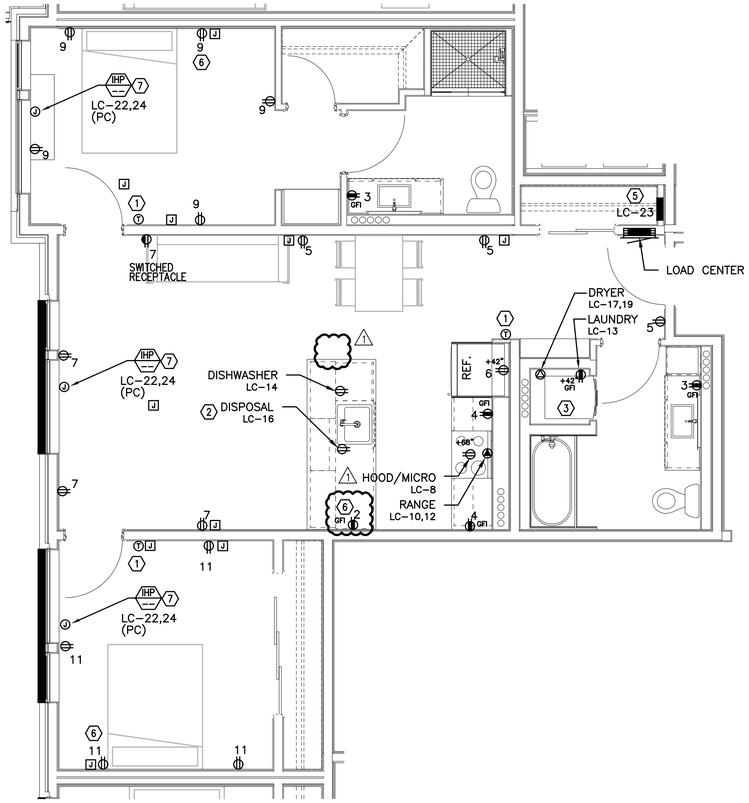
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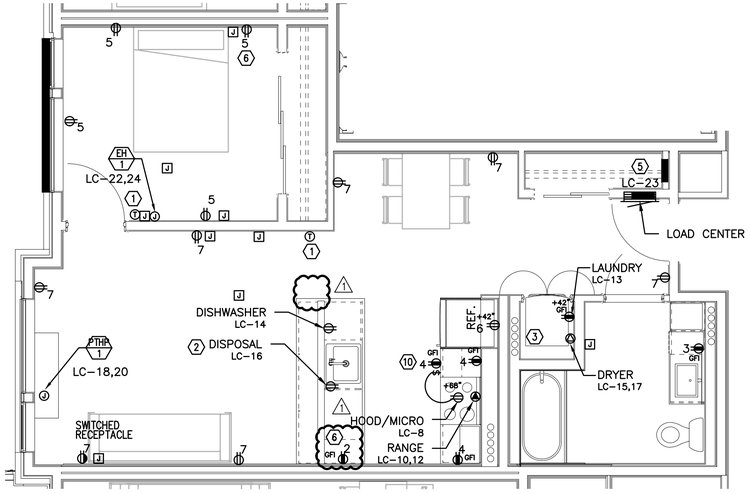
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TYPICAL UNIT TYPE O
1 BED/1 BATH – POWER PLAN
1 / E4.16 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE P
2 BED/2 BATH – POWER PLAN
2 / E4.16 SCALE: 1/4" = 1'-0"



TYPICAL UNIT TYPE O-ADA
1 BED/1 BATH – POWER PLAN
2 / E4.16 SCALE: 1/4" = 1'-0"

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