GENERAL SYMBOLS

- SHEET NOTE
- LIGHT LINE INDICATES BACKGROUND
- LIGHT LINE INDICATES EXISTING WORK
- HEAVY LINE INDICATES NEW WORK
- MATCHLINE OR PROPERTY LINE
- LIGHT LINE WITH HEAVY X INDICATES EXISTING WORK TO BE REMOVED
- EXISTING WORK TO BE ABANDONED

DETAILS

SECTION IDENTIFICATION

- INDICATES DIRECTION OF CUTTING PLANE
- LETTER INDICATED SECTION
- SHEET NUMBER WHERE SECTION IS DRAWN

DETAIL IDENTIFICATION

- NUMBER INDICATES DETAIL
- SHEET NUMBER WHERE DETAIL IS DRAWN

ELEVATION IDENTIFICATION

- NUMBER INDICATES ELEVATION
- SHEET NUMBER WHERE ELEVATION IS DRAWN

RACEWAYS

- CONDUITS CONCEALED IN CONSTRUCTION IN FINISHED AREAS, EXPOSED IN UNFINISHED AREAS
- CONDUIT CONCEALED IN OR UNDER FLOOR SLAB

RACEWAYS - INDICATORS

- CONDUIT STUB. TERMINATE WITH BUSHING OR CAP IF UNDERGROUND
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- 2"C 4#1 + 1#6 GND OR 53mm, 4#1 + 1#6 GND — INDICATES TRADE SIZE 2" OR 53MM CONDUIT WITH (4) #1 AWG AND (1) #6 AWG GROUND
- (2) 2"C 4#1 + 1#6 GND OR (2) 53mm, 4#1 + 1#6 GND — INDICATES (2) TRADE SIZE 2" OR 53MM CONDUITS WITH (4) #1 AWG AND (1) #6 AWG GROUND CONDUCTORS IN EACH CONDUIT
- L211/1,3 — HOMERUN TO PANELBOARD. NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. (EXAMPLE: HOMERUN TO PANEL L211 CKTS. #1 AND #3)

RACEWAYS - BOXES AND BUSWAYS

- P 2 — POWER POLE WITH DEVICES INDICATED IN THE SPECIFICATIONS AND ON THE DRAWINGS, "P" INDICATES TYPE, "2" INDICATES CIRCUIT
- T — TELECOM POLE WITH DEVICES INDICATED IN THE SPECIFICATIONS AND ON THE DRAWINGS, "T" INDICATES TYPE
- TP 2 — TELECOM/POWER POLE WITH DEVICES INDICATED IN THE SPECIFICATIONS AND ON THE DRAWINGS, "TP" INDICATES TYPE, "2" INDICATES POWER CIRCUIT
- PB — PULL BOX - SIZE AS INDICATED OR REQUIRED
- CABLETRAY SIZE AS INDICATED
- BUSWAY FEEDING UP
- BUSWAY FEEDING DOWN

LIGHTING FIXTURES

- LUMINAIRE: DRAWN TO APPROXIMATE SHAPE AND TO SCALE OR LARGE ENOUGH FOR CLARITY
- LUMINAIRE STRIP TYPE (SIZED TO SCALE)
- FIXTURE - DOUBLE OR SINGLE HEAD SPOTLIGHT
- EXIT LIGHTING FIXTURE, ARROWS AND EXIT FACE AS INDICATED ON DRAWINGS (MOUNTING HEIGHTS TO BE DETERMINED BY PROJECT SPECIFICATIONS)
- LIGHT TRACK, LENGTH AS INDICATED ON THE DRAWINGS, WITH NUMBER OF FIXTURES AS INDICATED ON THE DRAWINGS, AND AS INDICATED IN THE FIXTURE SCHEDULE
- EMERGENCY BATTERY REMOTE LIGHTING HEADS
- EMERGENCY BATTERY UNIT WITH LIGHTING HEADS
- BOLLARD TYPE SITE LIGHTING
- SURFACE MOUNTED FIXTURE (SIZED TO SCALE)
- WALL MOUNTED FIXTURE (SIZED TO SCALE)
- POLE MOUNTED WITH ARM
- IN-GROUND OR FLOOR MOUNTED (BOX AROUND SYMBOL)
- ACCENT/DIRECTIONAL ARROW, WITH OR WITHOUT TAIL.
- TRACK MOUNTED; LENGTH, LUMINAIRE TYPES AND QUANTITIES AS SHOWN
- LUMINAIRE PROVIDING EMERGENCY ILLUMINATION
- STANDARD DESIGNATIONS FOR ALL LIGHTING FIXTURES
  - a 2 a 2 — XXX OR XX-X = FIXTURE TYPE, REFER TO FIXTURE SCHEDULE
  - "2" = CIRCUIT NUMBER
  - "a" = SWITCH IDENTIFICATION
- +48 — MOUNTING HEIGHT
  - INTERIOR = AFF
  - EXTERIOR = AFG
- WALL WASH LIGHT FIXTURE

POWER

- J AxBxC — JUNCTION BOX, "AxBxC" INDICATES DIMENSION OF JUNCTION BOX IN EITHER INCHES OR CENTIMETERS
- EQUIPMENT CONNECTION
- MOTOR CONNECTION, SIZE AND VOLTAGE AS INDICATED
- COMBINATION MOTOR STARTER AS SCHEDULED
- FUSED DISCONNECT SWITCH
- UNFUSED DISCONNECT SWITCH
- ENCLOSED CIRCUIT BREAKER CURRENT RATING AS NOTED, 30A-3P UNLESS NOTED
- CONDUIT SEAL
- MCC — MOTOR CONTROL CENTER (SIZED TO SCALE)
- PANELBOARD - 240V OR 208V LIGHTING OR POWER PANEL (SIZED TO SCALE)
- PANELBOARD - 480V LIGHTING OR POWER PANEL (SIZED TO SCALE)
- T — TRANSFORMER (SIZED TO SCALE)

OUTLETS AND RECEPTACLES

- FLOOR DUPLEX RECEPTACLE
- SINGLE CONVENIENCE RECEPTACLE
- DUPLEX CONVENIENCE RECEPTACLE
- DUPLEX CONVENIENCE RECEPTACLE ABOVE COUNTER
- DUPLEX CONVENIENCE RECEPTACLE ON EMERGENCY/STANDBY CIRCUIT
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE ABOVE COUNTER
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE ON EMERGENCY/STANDBY CIRCUIT
- DOUBLE DUPLEX CONVENIENCE RECEPTACLE ABOVE COUNTER ON EMERGENCY/STANDBY CIRCUIT
- SPECIAL PURPOSE RECEPTACLE AS IDENTIFIED
- MULTIOUTLET ASSEMBLY, DEVICES AS INDICATED
- CLOCK HANGER OUTLET RECESSED MOUNTED 8'-0" AFF OR AS NOTED
- FD — FLUSH MOUNTED FLOOR BOX, ADJUSTABLE, WITH BOTH POWER AND VOICE/DATA RECEPTACLES.

SWITCHES

- $ — SINGLE POLE SWITCH
- $2 — DOUBLE POLE SWITCH
- $3 — THREE WAY SWITCH
- $4 — FOUR WAY SWITCH
- $a — SWITCH CONTROL (LOWER CASE)
- $K — KEY OPERATED SWITCH
- $LV — LOW VOLTAGE SWITCH
- $LM — LOW VOLTAGE MASTER SWITCH
- $MC — MOMENTARY CONTACT SWITCH
- $P — SWITCH WITH PILOT LIGHT ON WHEN SWITCH IS ON
- $T — TIMER SWITCH
- $X — WEATHERPROOF SINGLE POLE SWITCH
- OS — WALL MOUNTED OCCUPANCY SENSOR WITH OFF-AUTO OVERRIDE SWITCH
- OS — CEILING MOUNTED OCCUPANCY SENSOR WITH OFF-AUTO OVERRIDE SWITCH
- MUSHROOM PUSH BUTTON
- PUSH BUTTON, CONTROL STATION
- PC — PHOTOCELL
- C — LIGHTING CONTACTOR

FIRE ALARM

- FLAME DETECTOR
- HORN STROBE
- F — FIRE ALARM HORN
- F — MANUAL PULL STATION
- FIXED TEMPERATURE HEAT DETECTOR
- STROBE
- ANN — REMOTE ANNUNCIATOR
- FACP — FIRE ALARM CONTROL PANEL
- DOOR HOLDER
- SMOKE DETECTOR
- SMOKE DETECTOR, DUCT TYPE
- BT — BEAM DETECTOR, (ARROW INDICATED AIMING)
- MASTER CALL BOX
- CM — CONTROL MODULE
- CR — CONTROL RELAY
- FLOW DETECTOR SWITCH
- VALVE/TAMPER DETECTION
- PRESSURE DETECTOR SWITCH

COMMUNICATION

- V — VOLUME CONTROL
- FLOOR MOUNTED - COMBINATION TELEPHONE/DATA OUTLET
- CEILING MOUNTED - COMBINATION TELEPHONE/DATA OUTLET
- COMBINATION TELEPHONE/DATA OUTLET
- FLOOR MOUNTED - DATA OUTLET
- CEILING MOUNTED - DATA OUTLET
- DATA OUTLET
- FLOOR MOUNTED - TELEPHONE OUTLET
- CEILING MOUNTED - TELEPHONE OUTLET
- TELEPHONE OUTLET
- FLOOR MOUNTED - TELEVISION OUTLET
- CEILING MOUNTED - TELEVISION OUTLET
- TELEVISION OUTLET
- S — CLOCK OUTLET
- M — INTERCOM STATION SUBSCRIPT INDICATES: M = MASTER
- X — SPEAKER SUBSCRIPT INDICATES: X = ZONE

DIAGRAM

- ST — SHUNT TRIP
- GF — GROUND FAULT ALARM
- G — GENERATOR
- GROUND
- UPS STATION BATTERY
- FUSED DISCONNECT SWITCH
- POWER TRANSFORMER
- DELTA CONNECTION
- WYE
- GROUNDED WYE
- ZERO SEQUENCE CT
- (3) 400:5A — CT TRANSFORMER SUBSCRIPT INDICATES: 3 = QUANTITY; 400:5A = RATIO
- (3) — PT TRANSFORMER SUBSCRIPT INDICATES: QUANTITY
- XX — MEDIUM VOLTAGE DRAWOUT BREAKER
- AIC — AVAILABLE FAULT CURRENT
- NAME AMPS POLE — AUTOMATIC TRANSFER SWITCH
- SURGE ARRESTOR
- SPD — SURGE PROTECTIVE DEVICE
- XX — FEEDER CALLOUT
- CIRCUIT BREAKER
- CIRCUIT BREAKER DRAWOUT
- CONTACT, NORMALLY CLOSED (N.C.)
- CONTACT, NORMALLY OPEN (N.O.)
- PUSHBUTTON, NORMALLY CLOSED (N.C.)
- PUSHBUTTON, NORMALLY OPEN (N.O.)
- DISCONNECT SWITCH
- ELECTRICAL UNIT HEATER
- WALL CONNECTION
- SEPARABLE CONNECTOR
- CONDUIT SEAL

EXTERIOR SITE

- UNDERGROUND DUCTS INDICATE TYPE, SIZE AND NUMBER OF DUCTS BY SECTION OR MANHOLE DETAILS (SECTION LINE = BOTTOM)
- T — GROUND ROD SUBSCRIPT INDICATES: T = TEST WELL
- HH4 — HANDHOLE - NUMBER NOTED

ABBREVIATIONS

A	AMPS
AC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
AHU	AIR HANDLING UNIT
AIC	AMPS INTERRUPTING CAPACITY
AFF	ABOVE FINISHED FLOOR TO C OF DEVICE OR OUTLET BOX
AP	ACCESS PANEL
ARCH	ARCHITECTURAL
ATS	AUTOMATIC TRANSFER SWITCH
BLDG	BUILDING
BRKR	BREAKER
C	CONDUIT; CABLE; COIL
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG.	CEILING
C.O.	CONDUIT ONLY
COL	COLUMN
CONC	CONCRETE
CONTR	CONTRACTOR
CR	CONTROL RELAY
CS	CONTROL SWITCH
CT	CURRENT TRANSFORMER
CTL	CONTROL
CU	COPPER
DC	DIRECT CURRENT
DDC	DIRECT DIGITAL CONTROL
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGRAM
DISC.	DISCONNECT
DN	DOWN
DWG	DRAWING
EA	EACH
EF	EXHAUST FAN
EL	ELEVATION
ELEC	ELECTRICAL
EMERG	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EOL	END OF LINE DEVICE
EWC	ELECTRIC WATER COOLER
EXP	EXPOSED
EXIST.	EXISTING
FA	FIRE ALARM
FACC	FIRE ALARM CONTROL CONSOLE
FACP	FIRE ALARM CONTROL PANEL
FDR	FEEDER
FIN	FINISHED
FIO	FURNISHED AND INSTALLED BY OWNER
FIXT	FIXTURE
FLEX	FLEXIBLE
FLR	FLOOR
FLUOR	FLUORESCENT
FOIC	FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR
FT	FEET; FOOT
FU	FUSE
FUT	FUTURE
GALV	GALVANIZED
GEC	GROUND ELECTRODE CONDUCTOR
GEN	GENERATOR
GFI	GROUND FAULT INTERRUPTING
GND	GROUND
H	HIGH (DIM)
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPS	HIGH PRESSURE SODIUM
HZ	HERTZ
I/0	INPUT/OUTPUT PANEL
IAC	INTERLOCKED ARMORED CABLE
IC	INTERRUPTING CAPACITY
ID	INSIDE DIAMETER
IN	INCH
INST	INSTANTANEOUS
J-BOX	JUNCTION BOX
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT AMPS
KW	KILOWATT
L	LONG
LAB	LABORATORY
LC	LIGHTING CONTACTOR
LT	LIGHT
LTG	LIGHTING
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE; METAL HALIDE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
MTR	MOTOR
MTS	MANUAL TRANSFER SWITCH
MVA	MEGAVOLT-AMPS
N.C.	NORMALLY CLOSED
NEUT	NEUTRAL
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
NO.	NUMBER
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
PA	PUBLIC ADDRESS
PAR	PARALLEL
PC	PHOTO-ELECTRIC CELL; PULL CHAIN; PERSONAL COMPUTER
PF	POWER FACTOR
PH	PHASE
PL	PROPERTY LINE
PNL	PANEL; PANELBOARD
POC	POINT OF CONNECTION
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
QTY	QUANTITY
R	RADIUS; RISER
REC	RECEPTACLE
RECEP	RECEPTACLE
RGS	RIGID GALVANIZED STEEL CONDUIT
RM	ROOM
RQMTS	REQUIREMENTS
SECT	SECTION
SFD	SMOKE FIRE DAMPER
SHLD	SHIELDED
SHT	SHEET
SPEC	SPECIFICATION
SQ	SQUARE
STD	STANDARD
STL	STEEL
STR	STRANDED
SUBST	SUBSTATION
SURF	SURFACE
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
T	TRANSFORMER
TB	TERMINAL BLOCK
TC	TERMINAL CABINET
TEL	TELEPHONE
TEMP	TEMPORARY; TEMPERATURE
TP	TWISTED PAIR
TSP	TWISTED SHIELDED PAIR
TYP	TYPICAL
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
UH	UNIT HEATER
UV	UNIT VENTILATOR
V	VOLT(S)
VA	VOLT-AMPERES
VS	VERTICAL SCALE
W	WATT(S), WIRE(DIM)
W/	WITH
W/O	WITHOUT
WF	WATER FLOW ALARM
WP	WEATHERPROOF
WT	WATER-TIGHT
XFER	TRANSFER
XFMR	TRANSFORMER
XMTR	TRANSMITTER
Z	ZONE; IMPEDANCE
#	NUMBER
Ø	PHASE

NURSE CALL

- DOME LIGHT - CEILING MOUNTED
- ZONED DOME LIGHT - CEILING MOUNTED
- 1 — SINGLE PATIENT BED STATION WITH CALL CORD - WIRELESS
- 2 — PILLOW SPEAKER
- 3 — 2-WAY COMMUNICATIONS - WIRELESS
- C — CODE BLUE STATION - WIRELESS
- E — EMERGENCY PULL CORD STATION - WIRELESS
- V — VIDEO DISPLAY CONSOLE
- M — CHECK-IN MONITOR DETECTOR
- CPU — MASTER/SLAVE COMPUTER

BID DRAWING SET

REVISION	DATE

929 108th Ave NE
Suite 1000
Bellevue WA 98004
425.628.6000
woodharbinger.com
Wood Harbinger

SEAN M. BOLLER — STATE OF WASHINGTON — 35726 — REGISTERED PROFESSIONAL ENGINEER

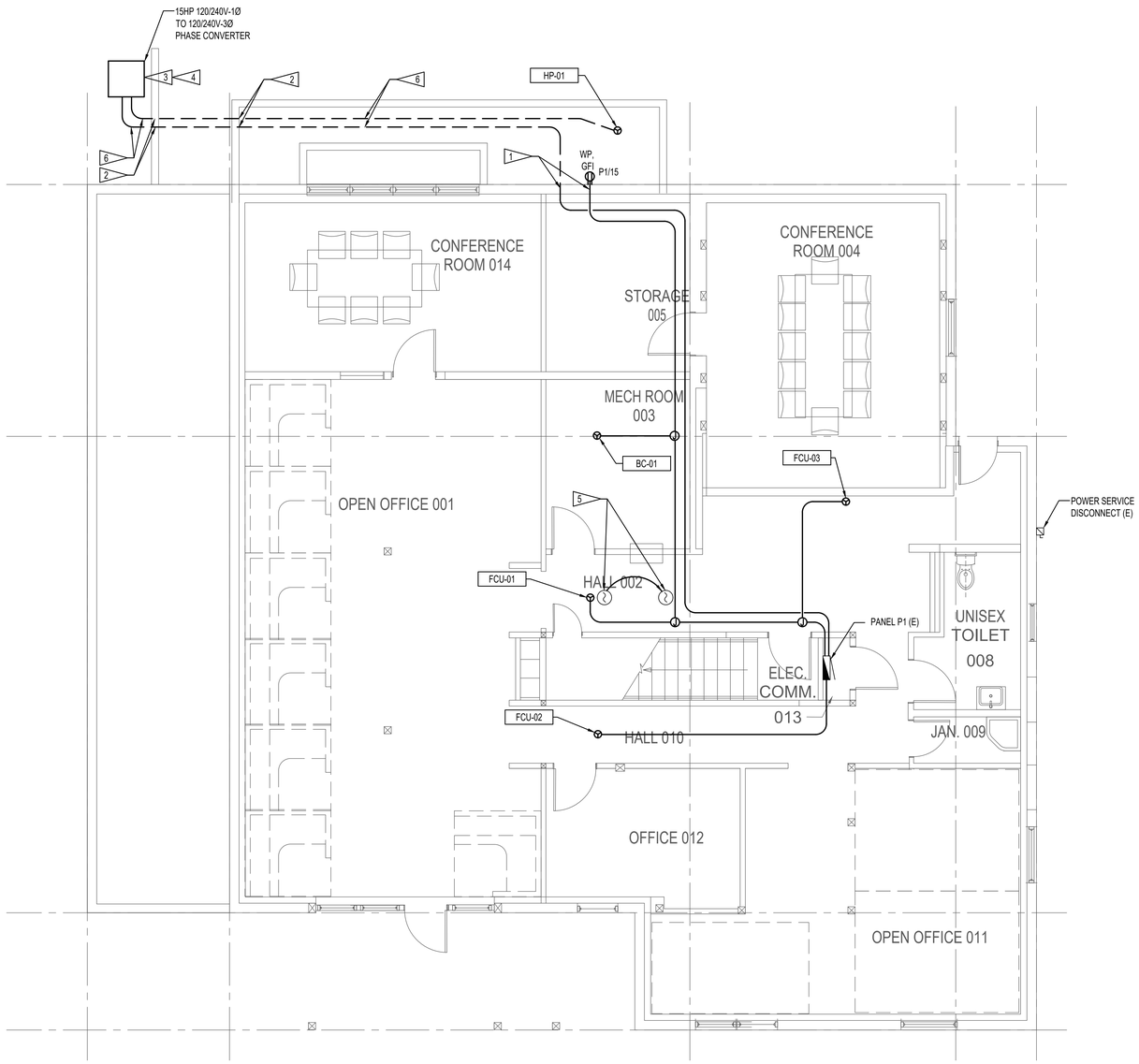
CITY HALL ANNEX BUILDING VRF HVAC INSTALLATION
CITY OF KIRKLAND
310 First Street, Kirkland, WA 98033

SHEET TITLE: ELECTRICAL SYMBOLS AND ABBREVIATIONS

DATE	12/06/2023
SCALE	NONE
ENGR	SMB
DRWN	CL
CHKD	–
APPR	
JOB	23018

E0.1

SHEET – OF 5



GENERAL NOTES

1. CIRCUITS SHALL UTILIZE SURFACE METAL RACEWAY TO FAN COIL UNITS AND BRANCH CONTROLLERS. FIELD VERIFY LOCATION OF BEAMS. PROVIDE ALL REQUIRED FITTINGS TO ROUTE AROUND BEAMS.
2. HEAT PUMP SHALL UTILIZE EMT FIELD PAINTED TO MATCH WALLS/CEILINGS. CORE DRILL EXISTING EXTERIOR WALL. EXTERIOR CONDUIT SHALL BE PVC SCHEDULE 40.

SHEET NOTES

1. CORE DRILL EXISTING EXTERIOR WALL FOR CONDUIT PENETRATIONS. SEAL CONDUIT PENETRAION.
2. CORE DRILL UNDER EXISTING WALKWAY AND ROUTE CONDUITS UNDER WALKWAY.
3. PROVIDE 4" THICK CONCRETE HOUSE KEEPING PAD. PAD SHALL EXTEND 4" BEYOND EQUIPMENT FOOTPRINT. PROVIDE EXCAVATION SO PAD IS FLAT AND LEVEL.
4. PROVIDE UNISTRUT SUPPORT FOR DISCONNECT SWITCH.
5. RELOCATE EXISTING SMOKE DETECTOR TO ALLOW INSTALLATION OF MECHANICAL UNIT. CENTER DETECTOR BETWEEN LUMINAIRE AND SOFFIT. CUT AND PATCH/PAINT EXISTING CEILING. PROVIDE CONCEALED CONDUIT AND FIRE ALARM WIRING TO MATCH EXISTING. CONTRACTOR SHALL SUBMIT, PAY AND OBTAIN FIRE ALARM PERMIT.
6. CONDUIT SHALL BE MINIMUM OF 18" BELOW GRADE. PROVIDE REQUIRED TRENCHING AND BACKFILL.

ELECTRICAL GROUND FLOOR PLAN

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

0 1 2 4 8 12
1/4"=1'-0" feet

BID DRAWING SET

REVISION	DATE

929 108th Ave NE
Suite 1000
Bellevue WA 98004
425.628.6000
woodharbinger.com
Wood Harbinger

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310 First Street, Kirkland, WA 98033

SHEET TITLE
ELECTRICAL
GROUND FLOOR PLAN

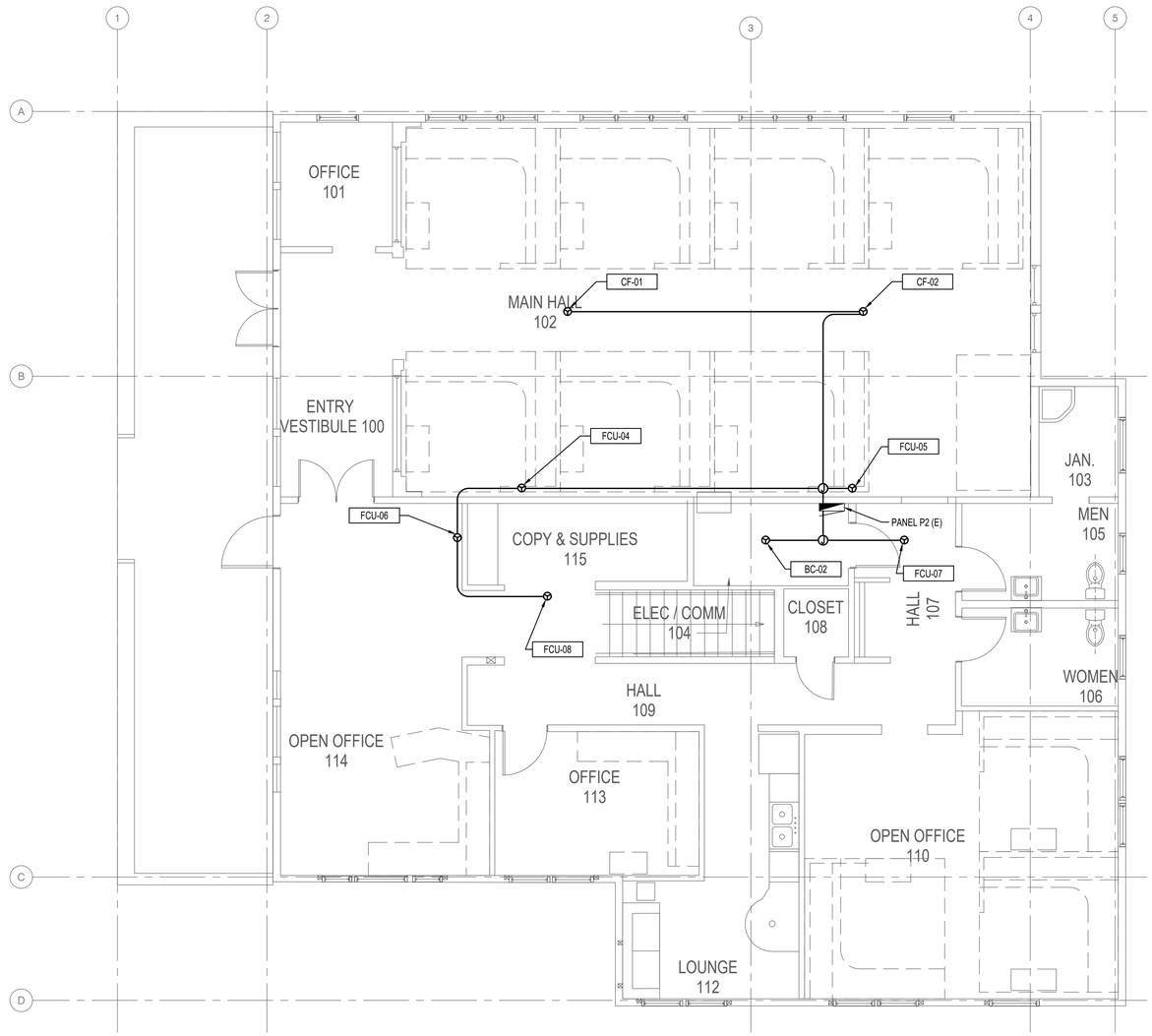
DATE	12/06/2023
SCALE	AS–NOTED
ENGR	SMB
DRWN	CL
CHKD	–
APPR	
JOB	23018

E3.1

SHEET – OF 5

GENERAL NOTES

1. SURFACE MOUNTED CIRCUITS SHALL UTILIZE SURFACE METAL RACEWAY. FIELD VERIFY LOCATION OF BEAMS. PROVIDE ALL REQUIRED FITTINGS TO ROUTE AROUND BEAMS. EMT CONDUITS CAN BE ROUTED IN ATTIC SPACE.



ELECTRICAL FIRST FLOOR PLAN

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

0 1 2 4 8 12
1/4"=1'-0" feet

BID DRAWING SET

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929 108th Ave NE
Suite 1000
Bellevue WA 98004
425.628.6000
woodharbinger.com
Wood Harbinger

SEAN M. BOLLER
STATE OF WASHINGTON
35726
REGISTERED PROFESSIONAL ENGINEER

CITY HALL ANNEX BUILDING VRF HVAC INSTALLATION
CITY OF KIRKLAND
310 First Street, Kirkland, WA 98033

SHEET TITLE
ELECTRICAL
FIRST FLOOR PLAN

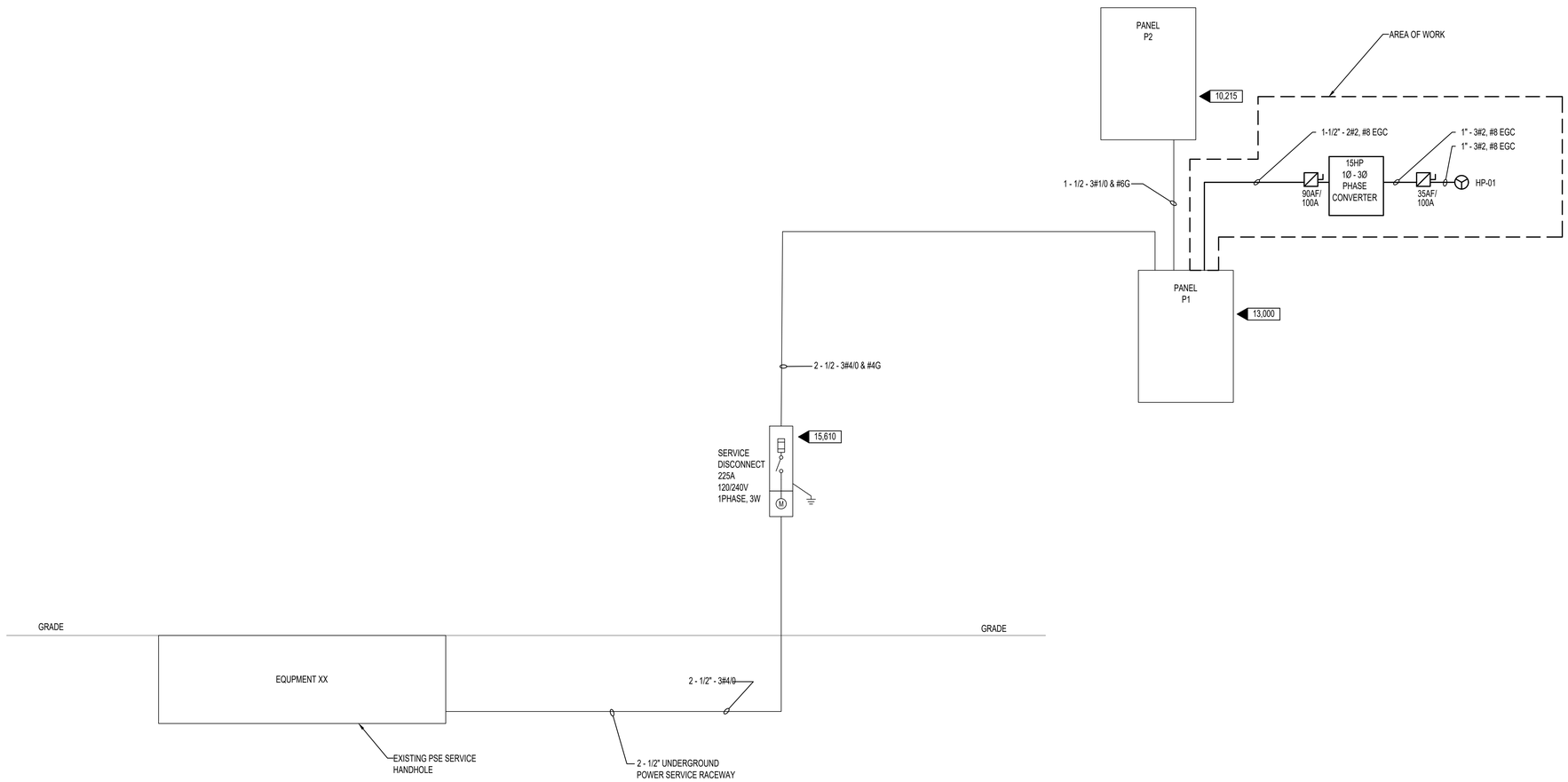
DATE	12/06/2023
SCALE	AS-NOTED
ENGR	SMB
DRWN	CL
CHKD	–
APPR	
JOB	23018

E3.2

SHEET – OF 5

GENERAL NOTES

1. ALL ELECTRICAL ITEMS ON THIS SHEET ARE EXISTING AND SHOWN FOR REFERENCE ONLY.



ELECTRICAL ONE-LINE DIAGRAM (1)

SCALE: NONE

BID DRAWING SET

REVISION	DATE

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Suite 1000
Bellevue WA 98004
425.628.6000
woodharbinger.com

CITY HALL ANNEX BUILDING VRF HVAC INSTALLATION
CITY OF KIRKLAND
310 First Street, Kirkland, WA 98033

SHEET TITLE
ELECTRICAL
ONE-LINE DIAGRAM

DATE	12/06/2023
SCALE	NONE
ENGR	SMB
DRWN	CL
CHKD	–
APPR	
JOB	23018

E5.1

SHEET – OF 5

PANEL NAME: P1 (EXIST) — PANEL SCHEDULE — MFGR: EATON
LOCATION: 13 — 240/120 VOLT — SECTION: 1 OF 1 — CAT # PRL1A
FED FROM: UTILITY — 1 PHASE, 3 WIRE — SURFACE MOUNT PNL
22 kAIC SYM — 225 AMP MAIN CB — 225 AMP BUS — CU BUS — 100% NEUTRAL

CKT. NO.	CIRCUIT DESCRIPTION	CB AMPS	POL	kVA	P H	kVA	CB AMPS	POL	CIRCUIT DESCRIPTION	Ckt No.
1	LTG: RM 01, 03, 08, 09, 11, 12	20/	1	0.60	a	0.10	20/	1	EF-01, EF-02, EF-03, EF-04, EF-05, EF-06	2
3	LTG: RM 02, 04, 06, 07, 010, 012, 014	20/	1	0.70	b	0.10	20/	1	BOILER B-1	4
5	LTG: EXIT SIGNS	20/	1	0.10	a	0.67	20/	1	DOMESTIC HOT WATER PUMP	6
7	REC: RM 004 - PROJECTOR	20/	1	0.20	b	0.10	20/	1	FIRE DAMPERS	8
9	REC: RM 014 - PROJECTOR	20/	1	0.20	a	0.20	20/	1	REC: RM 001 - COPIER	10
11	FCU-1 THRU FCU-3, BC-01 (NOTE 1)	20/	2	0.30	b	0.80	20/	1	REC: RM 004, 014 - COMPUTER	12
13	-	-		0.30	a	1.00	20/	1	REC: RM 011 - COMPUTER	14
15	REC - EXTERIOR (NOTE 2)	20/	1	0.18	b	0.80	20/	1	REC: RM 001, 011, 012 - COMPUTER	16
17	SPARE	20/	2	0.00	a	1.00	20/	1	REC: RM 001 - COMPUTER	18
19	SPARE	-		0.00	b	0.72	20/	1	REC: RM 011, 012	20
21	SPARE	20/	1	0.00	a	0.90	20/	1	REC: RM 001, 010, 012	22
23	SPARE	20/	1	0.00	b	0.90	20/	1	REC: RM 002, 003, 005	24
25	SPARE	20/	1	0.00	a	0.90	20/	1	REC: RM 06, 07, 08, 09, 013	26
27	SPARE	20/	1	0.00	b	0.90	20/	1	REC: RM 004	28
29	SPARE	20/	1	0.00	a	0.90	20/	1	REC: RM 005, 014	30
31	SPARE	20/	1	0.00	b	0.90	20/	1	REC: RM 001, 014	32
33	SPARE	20/	1	0.00	a	0.90	20/	1	REC: RM 001	34
35	SPARE	20/	1	0.00	b	0.04	20/	1	BOILER CONTROL PANEL AND PUMPS	36
37	SPARE	20/	1	0.00	a	0.00	20/	1	SPARE	38
39	HP-01 (NOTE 1)	90/	2	5.40	b	0.00	20/	1	SPARE	40
41	-	-		5.40	a	0.00	20/	1	SPARE	42

LOAD SUM	CONN LOAD		FACTOR	CALC LOAD	
LIGHTING	4.96	kVA	125%	6.20	kVA
RECEPTACLES	20.16	kVA	50%>10kVA	15.08	kVA
ALL MOTORS	0.00	kVA	100%	0.00	kVA
LRGST MOTOR	0.67	kVA	125%	0.83	kVA
KITCHEN	0.00	kVA	100%	0.00	kVA
MISCELLANEOUS	30.94	kVA	100%	30.94	kVA
NON-COINCIDENT	0.00	kVA	0%	0.00	kVA
TOTAL	56.73	**kVA**		53.05	**kVA**
	236.4	**AMPS**		221.1	**Amps**

NOTES
1. REMOVE EXISTING SPARE CIRCUIT BREAKERS AND PROVIDE NEW CIRCUIT BREAKER
2. NEW LOAD ON EXISTING CIRCUIT BREAKER.

PANEL NAME: P2 (EXIST) — PANEL SCHEDULE — MFGR: EATON
LOCATION: 13 — 240/120 VOLT — SECTION: 1 OF 1 — CAT # PRL1A
FED FROM: UTILITY — 1 PHASE, 3 WIRE — SURFACE MOUNT PNL
22 kAIC SYM — 225 AMP MAIN CB — 225 AMP BUS — CU BUS — 100% NEUTRAL

CKT. NO.	CIRCUIT DESCRIPTION	CB AMPS	POL	kVA	P H	kVA	CB AMPS	POL	CIRCUIT DESCRIPTION	Ckt No.
1	LTG: BUILDING EXTERIOR	20/	1	0.40	a	0.00	20/	1	EF-07 - EF-13	2
3	LTG: SITE EXTERIOR	20/	1	0.40	b	0.50	20/	1	REC: RM KITCHNEN - INSTANT HOT	4
5	LTG: RM 102, 103, 104, 105, 106	20/	1	0.40	a	1.17	20/	1	REC: RM KITCHEN - DISPOSER	6
7	LTG: RM 101, 102, 115	20/	1	0.30	b	0.70	20/	1	REC: RM KITCHEN - REFRIGERATOR	8
9	LTG: EXIT SIGNS	20/	1	0.10	a	0.18	20/	1	REC: RM KITCHEN - GFI	10
11	LTG: 107 - 113	20/	1	0.00	b	0.18	20/	1	REC: RM KITCHEN - GFI	12
13	REC: RM 104 - FACP	20/	1	0.30	a	0.40	20/	1	REC: RM 104 - DATA / COMM.	14
15	REC: RM 001, 101	20/	1	0.36	b	0.40	20/	1	REC: RM 104 - DATA / COMM.	16
17	REC: RM ATTIC - A/C	20/	1	0.00	a	0.20	20/	1	REC: RM 104 - SECURITY PANEL	18
19	-	20/	1	0.00	b	0.20	20/	1	REC: RM 115 - COPIER	20
21	REC: RM ATTIC - L++	20/	1	0.18	a	0.80	20/	1	REC: RM 110, 113 - COMPUTER	22
23	FCU-04 THRU FCU-08, BC-02 (NOTE 1)	20/	2	0.35	b	0.80	20/	1	REC: RM 102, 113, 114 - COMPUTER	24
25	-	-		0.35	a	1.00	20/	1	REC: RM 102 - COMPUTER	26
27	CF-01, CF-02 (NOTE 1)	15/	2	0.10	b	0.80	20/	1	REC: RM 102 - COMPUTER	28
29	-	-		0.10	a	0.90	20/	1	REC: RM 103, 104, 105, 106, 107	30
31	SPARE	20/	1	0.00	b	0.90	20/	1	REC: RM 110, 112	32
33	SPARE	20/	1	0.00	a	1.08	20/	1	REC: RM 019, 112, 113	34
35	SPARE	20/	1	0.00	b	0.90	20/	1	REC: RM 102, 114	36
37	SPARE	20/	1	0.00	a	0.36	20/	1	REC: RM 115	38
39	SPARE	20/	1	0.00	b	0.90	20/	1	REC: RM 102	40
41	SPARE	20/	1	0.00	a	0.72	20/	1	REC: RM 102	42

LOAD SUM	CONN LOAD		FACTOR	CALC LOAD	
LIGHTING	1.78	kVA	125%	2.23	kVA
RECEPTACLES	6.48	kVA	50%>10kVA	6.48	kVA
ALL MOTORS	0.00	kVA	100%	0.00	kVA
LRGST MOTOR	0.00	kVA	125%	0.00	kVA
KITCHEN	0.00	kVA	100%	0.00	kVA
MISCELLANEOUS	7.50	kVA	100%	7.50	kVA
NON-COINCIDENT	0.00	kVA	0%	0.00	kVA
TOTAL	15.76	**kVA**		16.21	**kVA**
	65.7	**AMPS**		67.5	**Amps**

NOTES
1. REMOVE EXISTING SPARE CIRCUIT BREAKERS AND PROVIDE NEW CIRCUIT BREAKER

MOTOR AND EQUIPMENT WIRING SCHEDULE

PLAN MARK	DESCRIPTION	KW/HP	VOLTS	PH	PANEL	WIRE & CONDUIT	DISCONNECT SIZE AMPS	DISCONNECT FUSE AMPS	STARTER NEMA SIZE	COMB'N YES	COMB'N NO	REMARKS
CF-01	CEILING FAN	0.1 KVA	240	1	P2	2#12, 1#12 EGC						RACEWAY SHALL BE WHITE SURFACE METAL RACEWAY
CF-02	CEILING FAN	0.1 KVA	240	1	P2	2#12, 1#12 EGC						RACEWAY SHALL BE WHITE SURFACE METAL RACEWAY
FCU-01	AIR CONDITIONING UNIT	0.2 KVA	240	1	P1	2#12, 1#12 EGC	30	15				RACEWAY SHALL BE WHITE SURFACE METAL RACEWAY
FCU-02	AIR CONDITIONING UNIT	0.2 KVA	240	1	P1	2#12, 1#12 EGC	30	15				RACEWAY SHALL BE WHITE SURFACE METAL RACEWAY
FCU-03	AIR CONDITIONING UNIT	0.1 KVA	240	1	P1	2#12, 1#12 EGC	30	15				RACEWAY SHALL BE WHITE SURFACE METAL RACEWAY
FCU-04	AIR CONDITIONING UNIT	0.1 KVA	240	1	P2	2#12, 1#12 EGC	30	15				RACEWAY SHALL BE WHITE SURFACE METAL RACEWAY
FCU-05	AIR CONDITIONING UNIT	0.1 KVA	240	1	P2	2#12, 1#12 EGC	30	15				RACEWAY SHALL BE WHITE SURFACE METAL RACEWAY
FCU-06	AIR CONDITIONING UNIT	0.1 KVA	240	1	P2	2#12, 1#12 EGC	30	15				RACEWAY SHALL BE WHITE SURFACE METAL RACEWAY
FCU-07	AIR CONDITIONING UNIT	0.2 KVA	240	1	P2	2#12, 1#12 EGC	30	15				RACEWAY SHALL BE WHITE SURFACE METAL RACEWAY
FCU-08	AIR CONDITIONING UNIT	0.1 KVA	240	1	P2	2#12, 1#12 EGC	30	15				RACEWAY SHALL BE WHITE SURFACE METAL RACEWAY
BC-01	BRANCH CIRCUIT CONTROLLER	0.1 KVA	240	1	P1	2#12, 1#12 EGC	30	15				RACEWAY SHALL BE WHITE SURFACE METAL RACEWAY
BC-02	BRANCH CIRCUIT CONTROLLER	0.1 KVA	240	1	P2	2#12, 1#12 EGC	30	15				RACEWAY SHALL BE WHITE SURFACE METAL RACEWAY
HP-01	AIR COOLED CONDENSING UNITS	10.8 KVA	208	3	P1		100	35				NEMA 3R FUSED DISCONNECT SWITCH. SEE SHEET E5.1

BID DRAWING SET

REVISION	DATE

929 108th Ave NE
Suite 1000
Bellevue WA 98004
425.628.6000
woodharbinger.com
Wood Harbinger

SEAN M. BOLLER — STATE OF WASHINGTON — 35726 — REGISTERED PROFESSIONAL ENGINEER

CITY HALL ANNEX BUILDING VRF HVAC INSTALLATION
CITY OF KIRKLAND
310 First Street, Kirkland, WA 98033

SHEET TITLE
ELECTRICAL SCHEDULES

DATE	12/06/2023
SCALE	NONE
ENGR	SMB
DRWN	CL
CHKD	–
APPR	
JOB	23018

E7.1

SHEET – OF 5