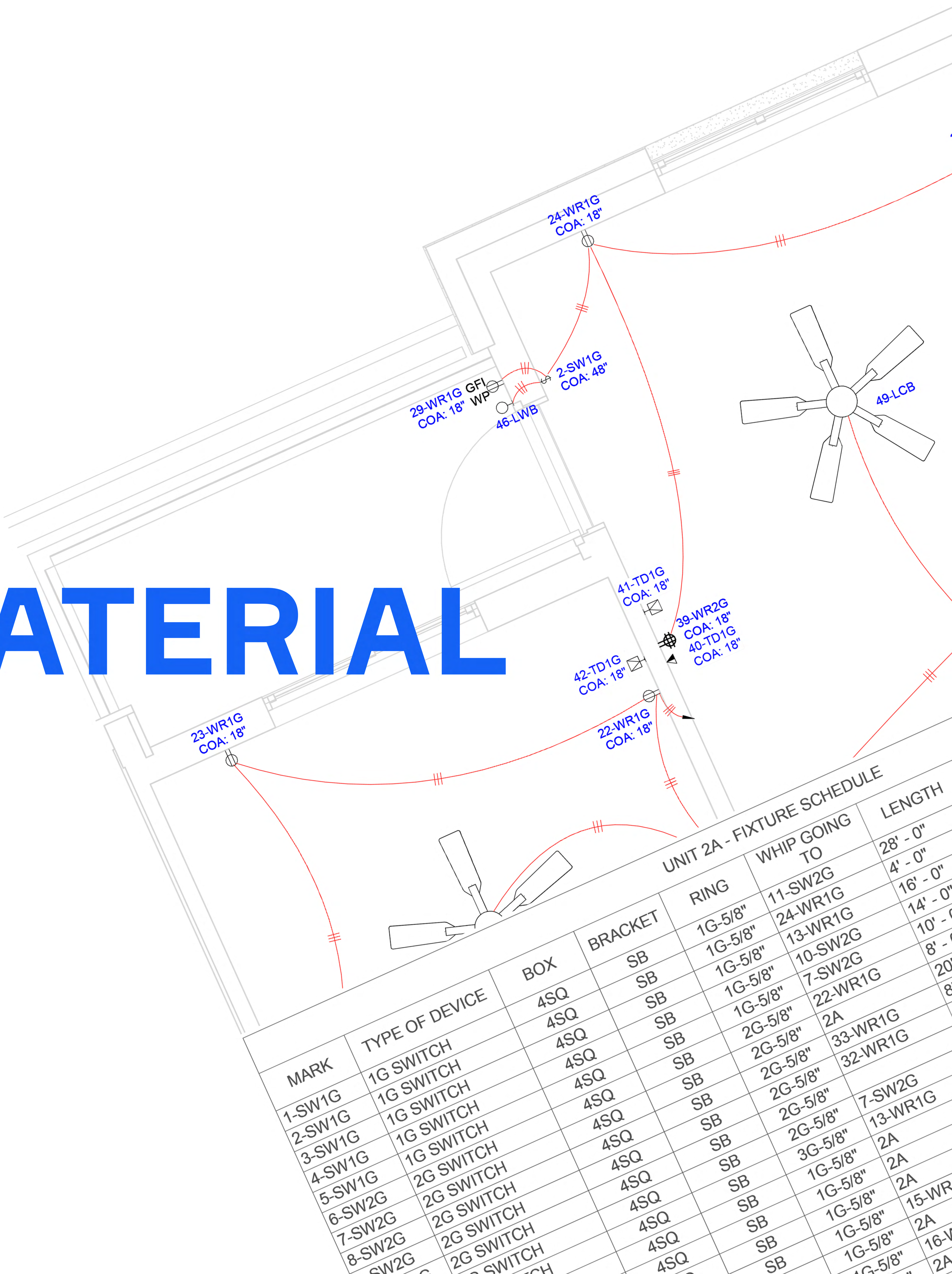




BILL OF MATERIAL

Helping the Best Build Better

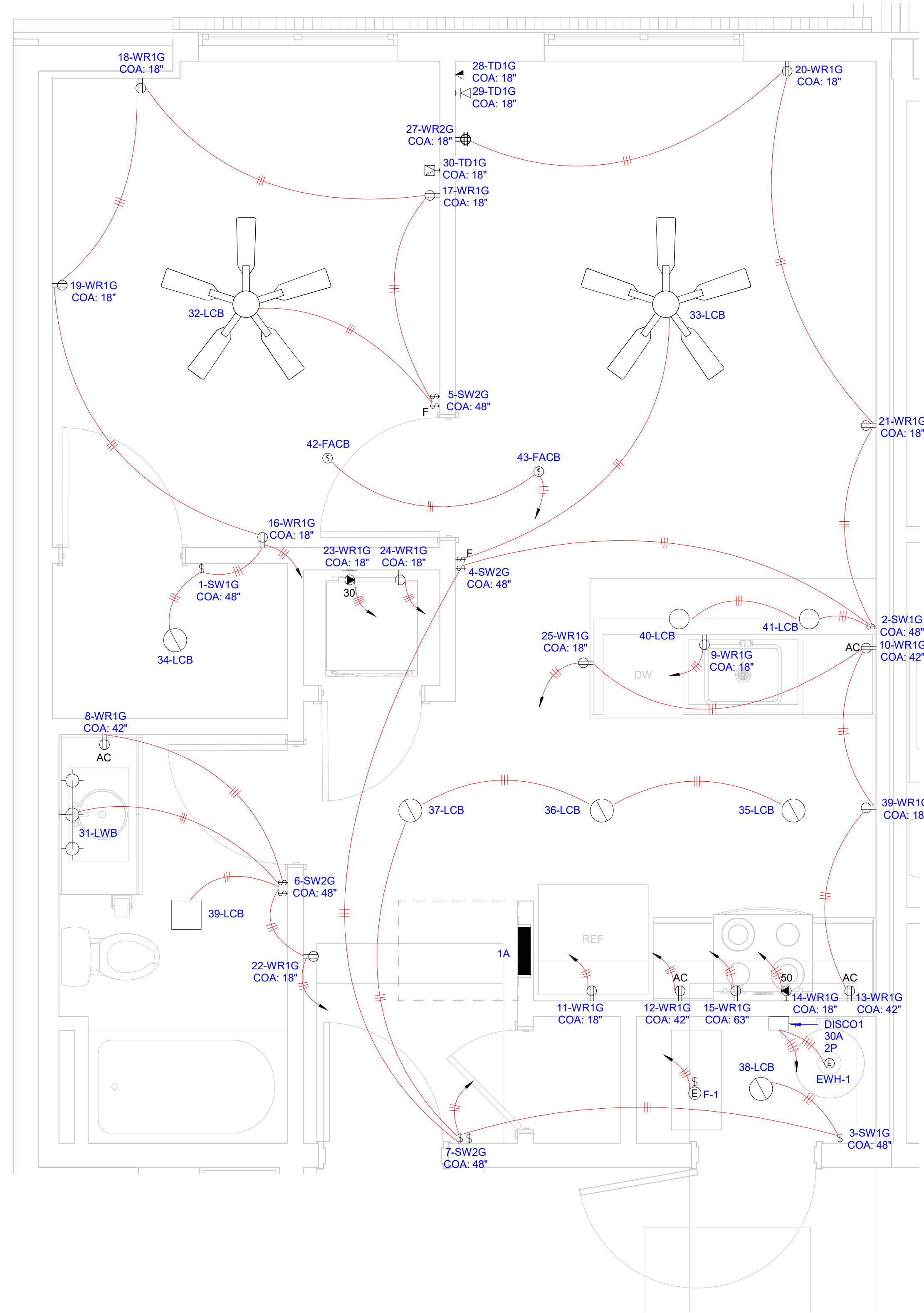


UNIT 2A - FIXTURE SCHEDULE						
MARK	TYPE OF DEVICE	BOX	BRACKET	RING	WHIP GOING TO	LENGTH
1-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	11-SW2G	28' - 0"
2-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	24-WR1G	4' - 0"
3-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	13-WR1G	16' - 0"
4-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	10-SW2G	14' - 0"
5-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	7-SW2G	10' - 0"
6-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	22-WR1G	8' - 0"
7-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	2A	20' - 0"
8-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	33-WR1G	8' - 0"
9-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	32-WR1G	8' - 0"
10-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	7-SW2G	13-WR1G
11-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	2A	2A
12-SW2G	2G SWITCH	4SQ	SB	3G-5/8"	1G-5/8"	2A
13-SW2G	2G SWITCH	4SQ	SB	1G-5/8"	1G-5/8"	15-WR
14-SW2G	2G SWITCH	4SQ	SB	1G-5/8"	1G-5/8"	2A
15-SW2G	2G SWITCH	4SQ	SB	1G-5/8"	1G-5/8"	16-W
16-SW2G	2G SWITCH	4SQ	SB	1G-5/8"	1G-5/8"	2A

RESEDENTIAL INSTALLATION LAYOUT - PER UNIT



201 Spear Street, Suite 1750
San Francisco, CA 94105



1 INSTALLATION PLAN - TYP. UNIT 1A (622 SF)
1/2" = 1'-0"

ENGINEERING SET

UNIT 1A - FIXTURE SCHEDULE										
MARK	TYPE OF DEVICE	BOX	BRACKET	RING	WHIP GOING TO	LENGTH	WIRE TYPE	QUANTITY OF CONNECTORS	NOTES	
1-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	16-WR1G	6' - 0"	12/2	2		
2-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	4-SW2G	26' - 0"	10/2	3		
3-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	7-SW2G	12' - 0"	10/2	2		
4-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	7-SW2G	28' - 0"	10/2	3		
5-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	17-WR1G	10' - 0"	12/2	2		
6-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	22-WR1G	6' - 0"	12/2	4		
7-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	1A	16' - 0"	10/2	4		
8-WR1G	RCPT	4SQ	SB	1G-5/8"	6-SW2G	12' - 0"	12/2	1		
9-WR1G	RCPT	4SQ	SB	1G-5/8"	1A	30' - 0"	14/2	1		
10-WR1G	RCPT	4SQ	SB	1G-5/8"	25-WR1G	14' - 0"	14/2	2		
11-WR1G	RCPT	4SQ	SB	1G-5/8"	1A	8' - 0"	14/2	1		
12-WR1G	RCPT	4SQ	SB	1G-5/8"	1A	10' - 0"	14/2	1		
13-WR1G	RCPT	4SQ	SB	1G-5/8"	26-WR1G	10' - 0"	14/2	1		
14-WR1G	RCPT	4SQ	SB	1G-5/8"	1A	14' - 0"	6/3	4		
15-WR1G	RCPT	4SQ	SB	1G-5/8"	1A	12' - 0"	12/2	1		
16-WR1G	RCPT	4SQ	SB	1G-5/8"	1A	32' - 0"	12/2	3		
17-WR1G	RCPT	4SQ	SB	1G-5/8"	18-WR1G	14' - 0"	12/2	2		
18-WR1G	RCPT	4SQ	SB	1G-5/8"	19-WR1G	10' - 0"	12/2	2		
19-WR1G	RCPT	4SQ	SB	1G-5/8"	16-WR1G	14' - 0"	12/2	2		
20-WR1G	RCPT	4SQ	SB	1G-5/8"	21-WR1G	14' - 0"	10/2	2		
21-WR1G	RCPT	4SQ	SB	1G-5/8"	17-SW1G	10' - 0"	10/2	2		
22-WR1G	RCPT	4SQ	SB	1G-5/8"	1A	20' - 0"	12/2	2		
23-WR1G	RCPT	4SQ	SB	1G-5/8"	1A	30' - 0"	10/3	3		
24-WR1G	RCPT	4SQ	SB	1G-5/8"	1A	30' - 0"	12/2	1		
25-WR1G	RCPT	4SQ	SB	1G-5/8"	1A	26' - 0"	14/2	2		
27-WR2G	2G RCPT	4SQ	SB	2G-5/8"	20-WR1G	12' - 0"	10/2	2		
31-LWB	WALL BOX	4SQ	SB	RD-5/8"	6-SW2G	18' - 0"	12/2	1		
32-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	5-SW2G	14' - 0"	12/2	1		
33-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	4-SW2G	20' - 0"	10/2	1		
34-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	1-SW1G	8' - 0"	12/2	1		
35-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	36-LCB	6' - 0"	10/2	1		
36-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	37-LCB	6' - 0"	10/2	2		
37-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	7-SW2G	18' - 0"	10/2	2		
38-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	3-SW1G	8' - 0"	10/2	1		
39-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	6-SW2G	10' - 0"	12/2	1		
39-WR1G	RCPT	4SQ	SB	1G-5/8"	10-WR1G	8' - 0"	14/2	2		
40-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	41-LCB	4' - 0"	10/2	1		
41-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	2-SW1G	8' - 0"	10/2	2		
42-FACB	CEILING BOX	RACO-196	-	1G-1-1/4"	43-CB	8' - 0"	14/2	1		
43-FACB	CEILING BOX	RACO-196	-	1G-1-1/4"	1A	20' - 0"	14/2	2		
DISCO1	DISCONNECT	-	-	-	1A	20' - 0"	10/3	4		
EW-H-1	EQUIPMENT BOX	-	-	-	DISCO1	8' - 0"	10/3	3	WATER HEATER	
F-1	EQUIPMENT BOX	-	-	-	1A	32' - 0"	14/2	1	FURNANCE	

PHASE WIRE - PANEL 1A		
WIRE TYPE	WIRE SIZE	LENGTH
THWN	#6	57' - 11 1/4"
THWN	#10	315' - 1 7/8"
THWN	#12	258' - 3 7/8"
THWN	#14	363' - 9 1/4"

NEUTRAL WIRE - PANEL 1A		
WIRE TYPE	WIRE SIZE	LENGTH
THWN	#6	28' - 11 5/8"
THWN	#10	254' - 3 3/4"
THWN	#12	258' - 3 7/8"
THWN	#14	282' - 9 1/8"

GROUND WIRE - PANEL 1A		
WIRE TYPE	WIRE SIZE	LENGTH
THWN	#10	283' - 3 3/8"
THWN	#12	258' - 3 7/8"
THWN	#14	282' - 9 1/8"

QUANTITY OF BOXES - UNIT 1A		
TYPE OF BOX	RING	COUNT
4SQ	1G-5/8"	22
4SQ	2G-5/8"	5
4SQ	RD-5/8"	1
RACO-196	1G-1-1/4"	2
RACO-196	RD-1-1/4"	10

QUANTITY OF CONNECTORS - UNIT 1A	
TYPE OF CONNECTOR	COUNT
MC CONNECTOR	78

SPOOL SET

REVISION	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	05/22/23

All drawings and written material appearing herein constitute original and unpublished work of the

BIM COORDINATOR APPROVAL STAMP:

FIELD APPROVAL STAMP:

ELECTRICAL FIXTURE TAG

INDEX NUMBER	TYPE OF DEVICE:
WR	WALL RECEPTACLE
SW	LIGHTING SWITCH
LCB	LIGHTING CEILING BOX
FACB	FIRE ALARM CEILING BOX
LWB	LIGHTING WALL BOX
WB	WALL BOX
TD	TELECOM DEVICE
XX - XXXX	TYPE OF RING
COA: 18"	CENTER OF ASSEMBLIES ABOVE FINISH FLOOR

INDIVIDUAL UNIT SERVICE CALCULATION (NEC 220.62)

(3) DWELLING UNITS 1A - 622SQFT

LIGHTING	3VA/SQFT	1,866VA
(2) SMALL APP.	1,500VA/EA	3,000VA
LAUNDRY	1,500VA/EA	1,500VA
REFRIGERATOR	900VA/EA	900VA
MICROWAVE	1,200VA/EA	1,200VA
DISHWASHER	750VA/EA	750VA
DISPOSAL	750VA/EA	750VA
CLOTHES DRYER	5,760VA/EA	5,760VA
RANGE	8,000VA/EA	8,000VA
WATER HEATER	4,500VA/EA	4,500VA
		28,286VA

FIRST 10kVA @ 100%

REMAINDER @ 40%

AC UNIT

ELECTRIC HEAT

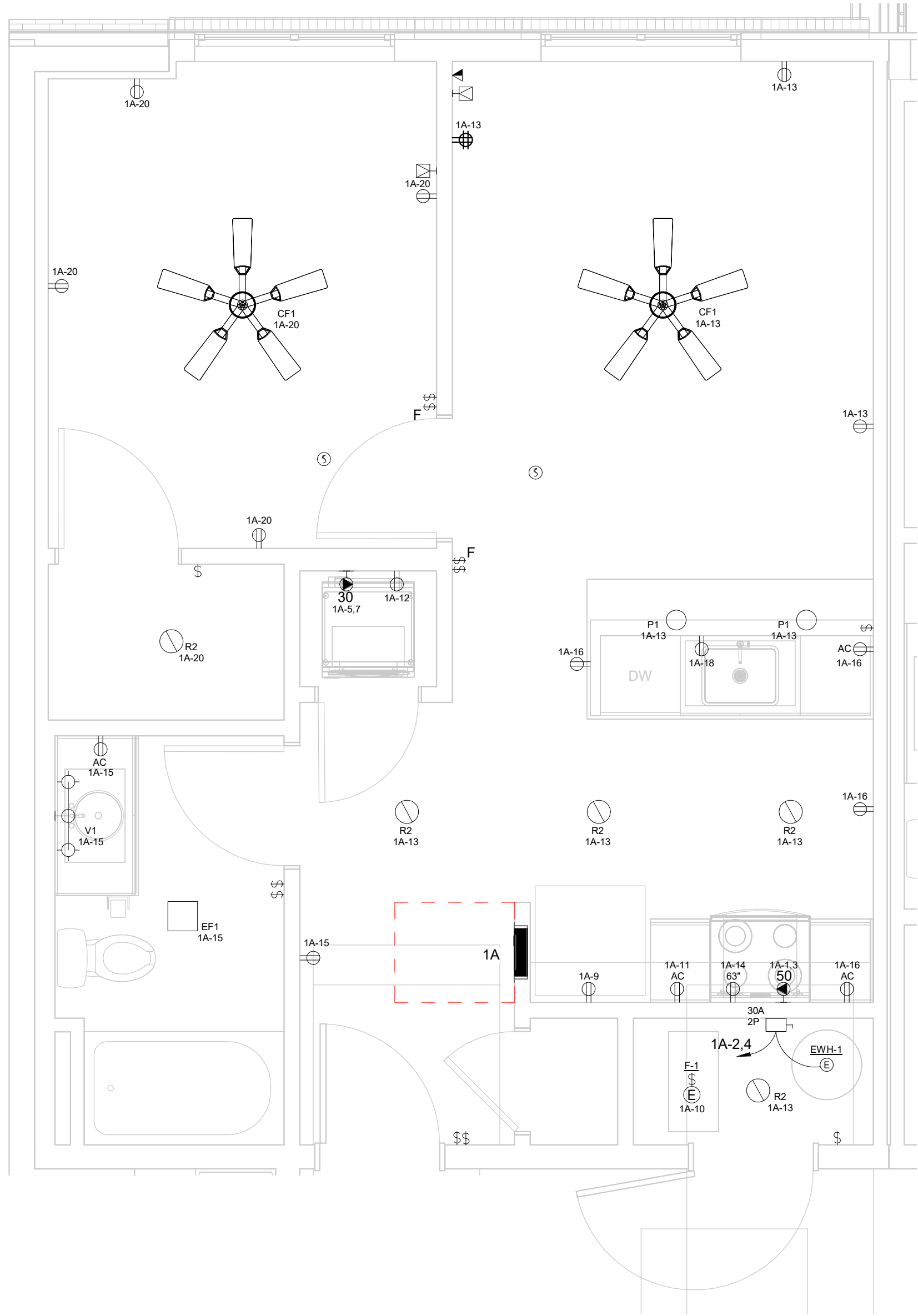
120/208V, 1Ø
19.478VA/208V
92.6A (NEC MIN.)
100A FEEDER
100A LOAD CENTER

BRANCH PANEL NAME	VOLTAGE		PHASE	WIRE	BUS SIZE	MAIN OCP	AIC RATING			
1A	120/208V		1	3	100 A	MLO	10 KAIC			
CODE: L=LIGHTING, R=RECEPTACLES, M=MOTORS, K=KITCHEN, E=EQUIPMENT							MOUNTING: RECESSED			
ROOM: METER 115							ENCLOSURE: NEMA 1			
FED FROM: RES. MT. STACK							FEED: EC TO VERIFY			
LOAD	CODE	POLE	BKR	CNT #	A	B	CNT #	BKR	POLE	LOAD
RANGE	E	2	50 A	1	4160 VA / 2250 VA	4160 VA / 2250 VA	2	30 A	2	EW-H-1
CLOTHES DRYER GFCI	E	2	30 A	5	2496 VA / 1082 VA	2496 VA / 1082 VA	6	15 A	2	CONDENSER (CU-1)
REFRIGERATOR AFCI	E	1	15 A	9	960 VA / 840 VA	960 VA / 840 VA	10	15 A	1	MICROWAVE (F-1)
KITCHEN AFCI/GFCI	R	1	15 A	11	614 VA / 1200 VA	180 VA / 1500 VA	12	20 A	1	WASHER GFCI
LIVING ROOM AFCI	R	1	15 A	13	614 VA / 1200 VA	390 VA / 720 VA	14	20 A	1	WASHDRY
BATHROOM AFCI/GFCI	R	1	20 A	15			16	15 A	1	KITCHEN AFCI/GFCI
SMOKE DETECTORS	E	1	15 A	17	0 VA / 180 VA	0 VA / 745 VA	18	15 A	1	DW/DSIF GFCI
SURGE SUPPRESSOR	--	2	30 A	21	0 VA / 0 VA		20	15 A	1	BEDROOM AFCI
	--			23		0 VA / 0 VA	24			
TOTAL LOAD:					13491 VA	13271 VA				
TOTAL AMPS:					129 A	128 A				

1 ELECTRICAL PLAN - TYP. UNIT 1A (622 SF)

3/8" = 1'-0"

UNITS: 301, 401, 501



ORIGINAL PRINT SIZE = 36x48

KEY PLAN:

JOB NUMBER: 00001

ISSUED FOR:

DATE: 5/23/2023 3:12:37 PM

DRAWN BY: Author

CHECKED BY: Checker

DRAWING SCALE: As indicated

SHEET TITLE:

RESEDENTIAL
INSTALLATION
LAYOUT - UNIT 1A

DRAWING NUMBER:

RESEDENTIAL INSTALLATION LAYOUT - PER UNIT



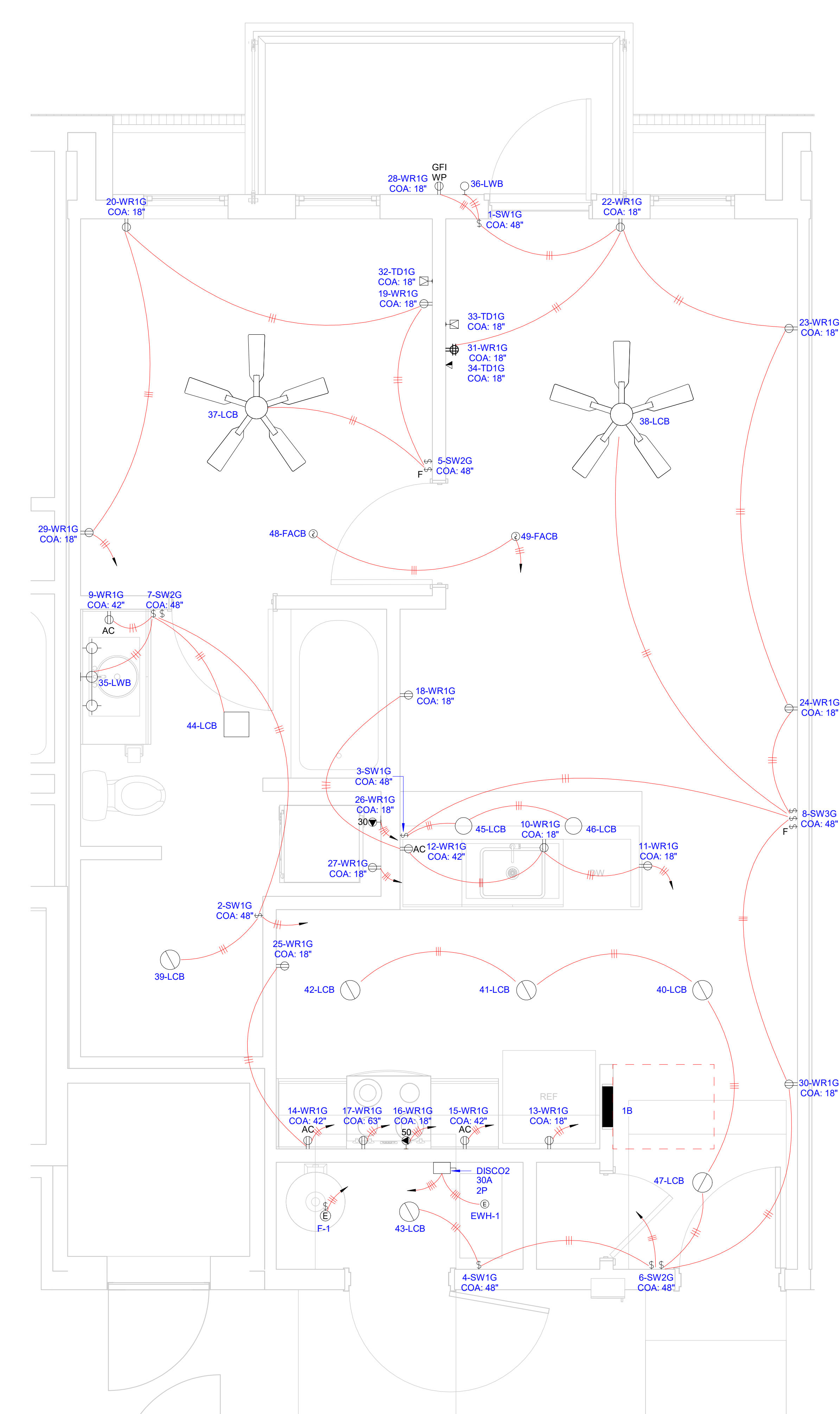
201 Spear Street, Suite 1750
San Francisco, CA 94105

DATE	REVISION	DESCRIPTION	ISSUED FOR CONSTRUCTION
05/22/23	1		

BIM COORDINATOR APPROVAL STAMP:

FIELD APPROVAL STAMP:

INDEX NUMBER	TYPE OF DEVICE:
WR	WALL RECEPTACLE
SW	LIGHTING SWITCH
LCB	LIGHTING CEILING BOX
FACB	FIRE ALARM CEILING BOX
LWB	LIGHTING WALL BOX
WB	WALL BOX
TD	TELECOM DEVICE
XX - XXXX	TYPE OF RING
COA: 18"	CENTER OF ASSEMBLIES ABOVE FINISH FLOOR



1 INSTALLATION PLAN - TYP. UNIT 1B (710 SF)
1/2" = 1'-0"

ENGINEERING SET

UNIT 1B - FIXTURE SCHEDULE									
MARK	TYPE OF DEVICE	BOX	BRACKET	RING	WHIP GOING TO	LENGTH	WIRE TYPE	QUANTITY OF CONNECTORS	NOTES
1-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	22-WR1G	8'-0"	6/2	5	
2-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	1B	28'-0"	12/2	3	
3-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	8-SW3G	26'-0"	6/2	3	
4-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	6-SW2G	8'-0"	6/2	4	
5-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	19-WR1G	8'-0"	14/2	2	
6-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	1B	18'-0"	6/2	6	
7-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	2-SW1G	26'-0"	12/2	4	
8-SW3G	3G SWITCH	4SQ	SB	3G-5/8"	30-WR1G	12'-0"	6/2	4	
9-WR1G	RCPT	4SQ	SB	1G-5/8"	7-SW2G	4'-0"	12/2	1	
10-WR1G	RCPT	4SQ	SB	1G-5/8"	11-WR1G	4'-0"	14/2	2	
11-WR1G	RCPT	4SQ	SB	1G-5/8"	1B	22'-0"	14/2	2	
12-WR1G	RCPT	4SQ	SB	1G-5/8"	10-WR1G	8'-0"	14/2	2	
13-WR1G	RCPT	4SQ	SB	1G-5/8"	1B	6'-0"	14/2	1	
14-WR1G	RCPT	4SQ	SB	1G-5/8"	1B	14'-0"	14/2	2	
15-WR1G	RCPT	4SQ	SB	1G-5/8"	1B	8'-0"	14/2	1	
16-WR1G	RCPT	4SQ	SB	1G-5/8"	1B	10'-0"	6/3	4	
17-WR1G	RCPT	4SQ	SB	1G-5/8"	1B	12'-0"	12/2	1	
18-WR1G	RCPT	4SQ	SB	1G-5/8"	71-WR1G	8'-0"	14/2	1	
19-WR1G	RCPT	4SQ	SB	1G-5/8"	20-WR1G	14'-0"	14/2	2	
20-WR1G	RCPT	4SQ	SB	1G-5/8"	29-WR1G	14'-0"	14/2	2	
22-WR1G	RCPT	4SQ	SB	1G-5/8"	23-WR1G	12'-0"	6/2	4	
23-WR1G	RCPT	4SQ	SB	1G-5/8"	24-WR1G	14'-0"	6/2	3	
24-WR1G	RCPT	4SQ	SB	1G-5/8"	8-SW3G	8'-0"	6/2	3	
25-WR1G	RCPT	4SQ	SB	1G-5/8"	14-WR1G	10'-0"	14/2	1	
26-WR1G	RCPT	4SQ	SB	1G-5/8"	1B	30'-0"	10/3	3	
27-WR1G	RCPT	4SQ	SB	1G-5/8"	1B	30'-0"	12/2	1	
28-WR1G	RCPT	4SQ WP	SB	1G-5/8"	1-SW1G	6'-0"	6/2	3	
29-WR1G	RCPT	4SQ	SB	1G-5/8"	1B	50'-0"	14/2	2	
30-WR1G	RCPT	4SQ	SB	1G-5/8"	6-SW2G	14'-0"	6/2	3	
31-WR1G	2G RCPT	4SQ	SB	2G-5/8"	22-WR1G	6'-0"	6/2	3	
35-LWB	WALL BOX	4SQ	SB	RD-5/8"	7-SW2G	10'-0"	12/2	1	
36-LWB	WALL BOX	4SQ WP	SB	RD-5/8"	1-SW1G	14'-0"	6/2	3	
37-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	5-SW2G	14'-0"	14/2	1	
38-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	8-SW3G	26'-0"	6/2	3	
39-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	2-SW1G	10'-0"	12/2	1	
40-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	47-LCB	8'-0"	6/2	3	
41-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	40-LCB	8'-0"	6/2	3	
42-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	41-LCB	8'-0"	6/2	3	
43-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	4-SW1G	10'-0"	6/2	3	
44-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	7-SW2G	12'-0"	12/2	1	
45-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	3-SW1G	8'-0"	6/2	3	
46-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	45-LCB	4'-0"	6/2	3	
47-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	6-SW2G	10'-0"	6/2	3	
48-FACB	CEILING BOX	RACO-196	-	1G-1-1/4"	49-CB	8'-0"	14/2	1	
49-FACB	CEILING BOX	RACO-196	-	1G-1-1/4"	1B	28'-0"	14/2	2	
DISCO2	DISCONNECT	-	-	-	1B	10'-0"	10/3	3	
EWH-1	EQUIPMENT BOX	-	-	-	DISCO2	8'-0"	10/3	3	WATER HEATER
F-1	EQUIPMENT BOX	-	-	-	1B	28'-0"	14/2	1	FURNANCE

WIRE TYPE	WIRE SIZE	LENGTH
THWN	#6	321' - 0 3/4"
THWN	#10	510' - 1 1/4"
THWN	#12	158' - 5"
THWN	#14	332' - 5 3/8"

WIRE TYPE	WIRE SIZE	LENGTH
THWN	#6	292' - 9 5/8"
THWN	#10	255' - 0 5/8"
THWN	#12	158' - 5"
THWN	#14	332' - 5 3/8"

WIRE TYPE	WIRE SIZE	LENGTH
THWN	#6	264' - 6 5/8"
THWN	#10	283' - 3 3/4"
THWN	#12	158' - 5"
THWN	#14	332' - 5 3/8"

TYPE OF BOX	RING	COUNT
4SQ	1G-5/8"	24
4SQ	2G-5/8"	4
4SQ	3G-5/8"	1
4SQ	RD-5/8"	1
4SQ WP	1G-5/8"	1
4SQ WP	RD-5/8"	1
RACO-196	1G-1-1/4"	2
RACO-196	RD-1-1/4"	11

TYPE OF CONNECTOR	COUNT
MC CONNECTOR	119

SPOOL SET

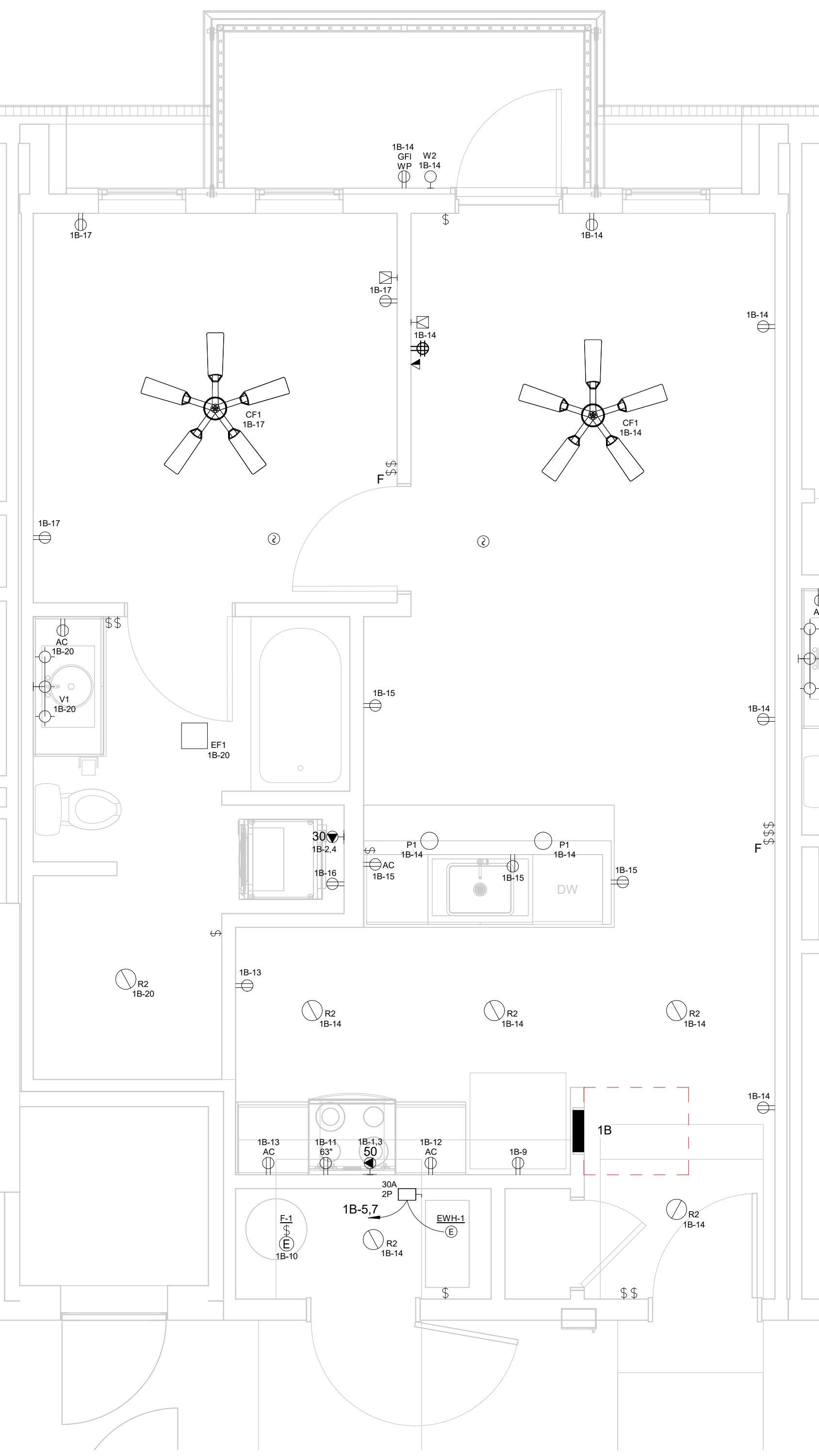
INDIVIDUAL UNIT SERVICE CALCULATION (NEC 220.82)

(6) DWELLING UNITS 1B - 710SFT

LIGHTING	3VA/SQFT	2,130VA
(2) SMALL APP.	1,500VA/EA	3,000VA
LAUNDRY	1,500VA/EA	1,500VA
REFRIGERATOR	900VA/EA	900VA
MICROWAVE	1,200VA/EA	1,200VA
DISHWASHER	750VA/EA	750VA
DISPOSAL	750VA/EA	750VA
CLOTHES DRYER	5,760VA/EA	5,760VA
RANGE	8,000VA/EA	8,000VA
WATER HEATER	4,500VA/EA	4,500VA
		28,550VA
FIRST 10VA @ 100%		10,000VA
REMAINDER @ 40%		7,420VA
		17,420VA
AC UNIT	2,184VA	
ELECTRIC HEAT	2,184VA	
		120/208V, 1Ø
		19,584VA/208V
		94,15A (NEC MIN.)
		100A FEEDER
		100A LOAD CENTER

BRANCH PANEL NAME		VOLTAGE		PHASE		WIRE		BUS SIZE		MAIN OCP		AC RATING	
1B		120/208V		1		3		100 A		MLO		10 kAIC	
		CODE: L=LIGHTING, R=RECEPTACLES, M=MOTORS, K=KITCHEN, E=EQUIPMENT										MOUNTING: RECESSED	
		ROOM: METER 115										ENCLOSURE: NEMA 1	
		FED FROM: RES. MT. STACK										FEED: EC TO VERIFY	
LOAD	CODE	POLE	BKR	CTY #	A	B	CTY #	BKR	POLE	CODE	LOAD		
RANGE	E	2	50 A	1	4160 VA / 2496 VA	4160 VA / 2496 VA	2	30 A	2	E	CLOTHES DRYER GFCI		
EW-H1	E	2	30 A	3	2250 VA / 1082 VA	2250 VA / 1082 VA	4	—	—	E	CONDENSER (CU-1)		
REFRIGERATOR AFCI	E	1	15 A	9	980 VA / 840 VA	980 VA / 840 VA	10	15 A	1	M	FURNANCE (F-1)		
MICROWAVE	E	1	20 A	11	360 VA / 1175 VA	1200 VA / 180 VA	12	15 A	1	R	KITCHEN AFCI/GFCI		
KITCHEN AFCI/GFCI	R	1	15 A	13	360 VA / 1175 VA	360 VA / 1175 VA	14	15 A	1	R	LIVING ROOM AFCI		
DWV/ISP GFCI	E	1	15 A	13	555 VA / 0 VA	720 VA / 1500 VA	16	20 A	1	E	WASHER GFCI		
BEDROOM AFCI	R	1	15 A	17	565 VA / 0 VA	0 VA / 220 VA	18	15 A	1	R	SMOKE DETECTORS		
SURGE SUPPRESSOR	—	2	30 A	21	0 VA / 0 VA	0 VA / 220 VA	20	20 A	1	R	BATHROOM AFCI/GFCI		
—	—	—	—	23	—	—	22	—	—	—	—		
TOTAL LOAD:					13587 VA		13554 VA						
TOTAL AMPS:					131 A		130 A						

2 ELECTRICAL PLAN - TYP. UNIT 1B (710 SF)
3/8" = 1'-0"



JOB NUMBER:	00001
ISSUED FOR:	
DATE:	5/23/2023 3:12:37 PM
DRAWN BY: Author	CHECKED BY: Checker
DRAWING SCALE:	As indicated
SHEET TITLE:	RESEDENTIAL INSTALLATION LAYOUT - UNIT 1B
DRAWING NUMBER:	

RESEDENTIAL INSTALLATION LAYOUT - PER UNIT



201 Spear Street, Suite 1750
San Francisco, CA 94105

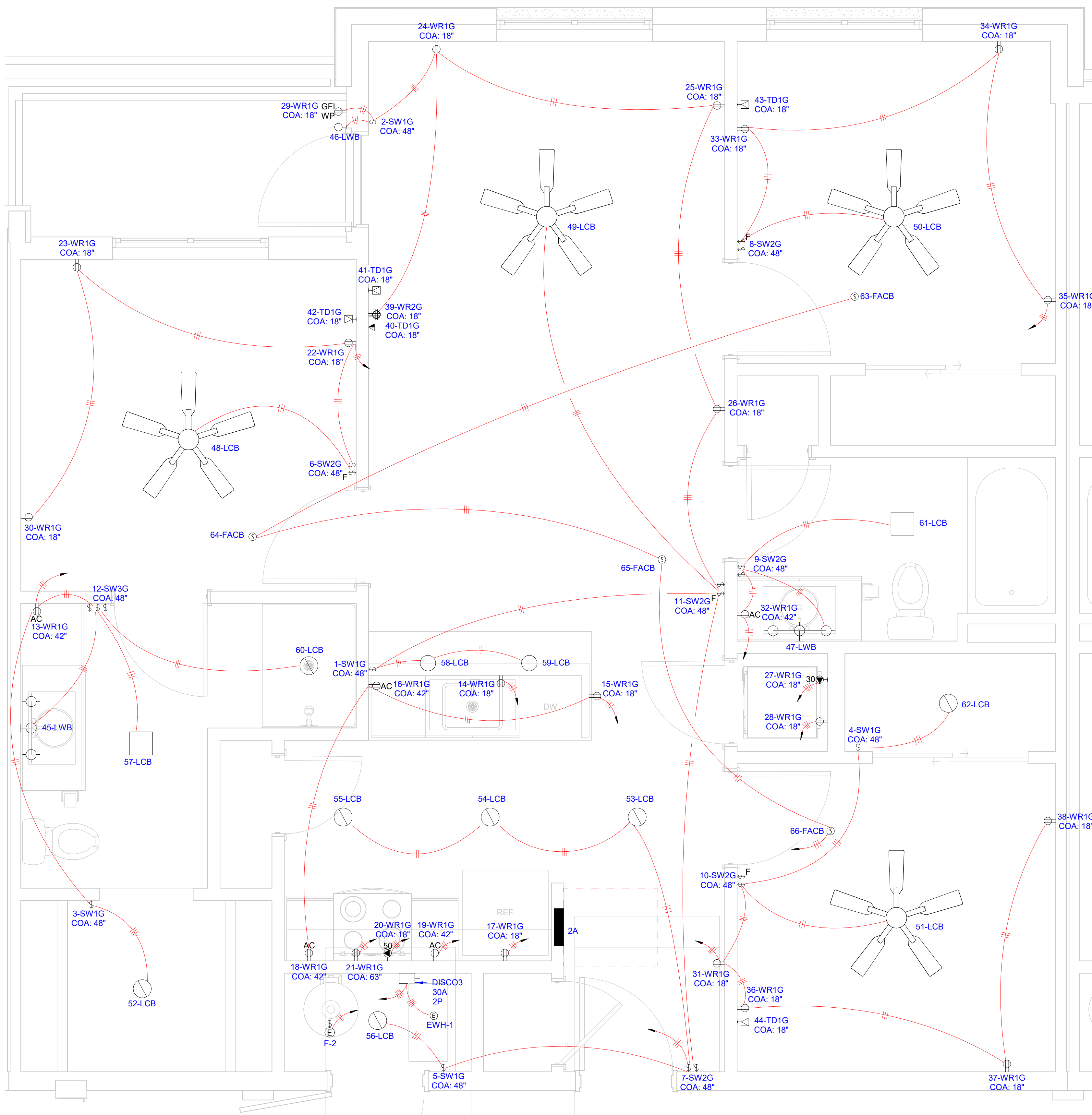
DATE	05/22/23
REVISION	1
DESCRIPTION	ISSUED FOR CONSTRUCTION

BIM COORDINATOR APPROVAL STAMP:

FIELD APPROVAL STAMP:

ELECTRICAL FIXTURE TAG

INDEX NUMBER	TYPE OF DEVICE:
XX - XXXX	TYPE OF RING
COA: 18"	CENTER OF ASSEMBLIES ABOVE FINISH FLOOR



1 INSTALLATION PLAN - TYP. UNIT 2A (1088 SF)
1/2" = 1'-0"

MARK	TYPE OF DEVICE	BOX	BRACKET	RING	WHIP GOING TO	LENGTH	WIRE TYPE	QUANTITY OF CONNECTORS	NOTES
39-WR2G	2G RCPT	4SQ	SB	2G-5/8"	24-WR1G	14'-0"	8/2	3	
45-LWB	WALL BOX	4SQ	SB	RD-5/8"	12-SW3G	10'-0"	12/2	1	
46-LWB	WALL BOX	4SQ WP	SB	RD-5/8"	2-SW1G	12'-0"	8/2	3	
47-LWB	WALL BOX	4SQ	SB	RD-5/8"	9-SW2G	10'-0"	12/2	1	
48-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	6-SW2G	14'-0"	14/2	1	
49-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	11-SW2G	28'-0"	8/2	3	
50-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	6-SW2G	14'-0"	14/2	1	
51-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	10-SW2G	14'-0"	12/2	1	
52-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	3-SW1G	12'-0"	12/2	1	
53-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	3-SW2G	18'-0"	8/2	3	
54-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	63-LCB	6'-0"	8/2	4	
55-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	54-LCB	6'-0"	8/2	3	
56-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	5-SW1G	10'-0"	8/2	3	
57-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	12-SW3G	14'-0"	12/2	1	
58-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	1-SW1G	8'-0"	8/2	3	
59-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	59-LCB	4'-0"	8/2	3	
60-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	12-SW3G	16'-0"	12/2	1	
61-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	9-SW2G	14'-0"	12/2	1	
62-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	12'-0"	12/2	1		
63-FACB	CEILING BOX	RACO-196	-	1G-1-1/4"	64-FACB	18'-0"	14/2	1	
64-FACB	CEILING BOX	RACO-196	-	1G-1-1/4"	65-FACB	16'-0"	14/2	2	
65-FACB	CEILING BOX	RACO-196	-	1G-1-1/4"	66-FACB	18'-0"	14/2	2	
66-FACB	CEILING BOX	RACO-196	-	1G-1-1/4"	2A	18'-0"	14/2	2	
DISCO3	DISCONNECT	-	-	-	2A	16'-0"	10/3	3	
EW-1	EQUIPMENT BOX	-	-	-	DISCO3	8'-0"	10/3	3	WATER HEATER
F-2	EQUIPMENT BOX	-	-	-	2A	26'-0"	14/2	1	FURNANCE

ENGINEERING SET

MARK	TYPE OF DEVICE	BOX	BRACKET	RING	WHIP GOING TO	LENGTH	WIRE TYPE	QUANTITY OF CONNECTORS	NOTES
1-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	11-SW2G	28'-0"	8/2	3	
2-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	24-WR1G	4'-0"	8/2	4	
3-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	13-WR1G	16'-0"	12/2	2	
4-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	10-SW2G	14'-0"	12/2	2	
5-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	7-SW2G	10'-0"	8/2	3	
6-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	22-WR1G	8'-0"	14/2	2	
7-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	2A	20'-0"	8/2	4	
8-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	33-WR1G	8'-0"	14/2	2	
9-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	32-WR1G	4'-0"	12/2	3	
10-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	7-SW2G	30'-0"	8/2	6	
11-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	13-WR1G	4'-0"	12/2	4	
12-SW3G	3G SWITCH	4SQ	SB	1G-5/8"	2A	42'-0"	12/2	3	
13-WR1G	RCPT	4SQ	SB	1G-5/8"	2A	24'-0"	14/2	1	
14-WR1G	RCPT	4SQ	SB	1G-5/8"	2A	22'-0"	14/2	2	
15-WR1G	RCPT	4SQ	SB	1G-5/8"	15-WR1G	12'-0"	14/2	2	
16-WR1G	RCPT	4SQ	SB	1G-5/8"	2A	6'-0"	14/2	1	
17-WR1G	RCPT	4SQ	SB	1G-5/8"	16-WR1G	10'-0"	14/2	1	
18-WR1G	RCPT	4SQ	SB	1G-5/8"	2A	8'-0"	14/2	1	
19-WR1G	RCPT	4SQ	SB	1G-5/8"	2A	10'-0"	6/3	4	
20-WR1G	RCPT	4SQ	SB	1G-5/8"	2A	12'-0"	12/2	1	
21-WR1G	RCPT	4SQ	SB	1G-5/8"	2A	44'-0"	14/2	3	
22-WR1G	RCPT	4SQ	SB	1G-5/8"	22-WR1G	16'-0"	14/2	2	
23-WR1G	RCPT	4SQ	SB	1G-5/8"	25-WR1G	14'-0"	8/2	4	
24-WR1G	RCPT	4SQ	SB	1G-5/8"	26-WR1G	12'-0"	8/2	3	
25-WR1G	RCPT	4SQ	SB	1G-5/8"	11-SW2G	10'-0"	8/2	3	
26-WR1G	RCPT	4SQ	SB	1G-5/8"	2A	32'-0"	10/3	3	
27-WR1G	RCPT	4SQ	SB	1G-5/8"	2A	30'-0"	12/2	1	
28-WR1G	RCPT	4SQ	SB	1G-5/8"	2-SW1G	10'-0"	8/2	3	
29-WR1G	RCPT	4SQ	SB	1G-5/8"	23-WR1G	14'-0"	14/2	1	
30-WR1G	RCPT	4SQ	SB	1G-5/8"	2A	20'-0"	12/2	3	
31-WR1G	RCPT	4SQ	SB	1G-5/8"	2A	30'-0"	12/2	2	
32-WR1G	RCPT	4SQ	SB	1G-5/8"	34-WR1G	14'-0"	14/2	2	
33-WR1G	RCPT	4SQ	SB	1G-5/8"	35-WR1G	14'-0"	14/2	2	
34-WR1G	RCPT	4SQ	SB	1G-5/8"	2A	56'-0"	14/2	2	
35-WR1G	RCPT	4SQ	SB	1G-5/8"	31-WR1G	4'-0"	12/2	2	
36-WR1G	RCPT	4SQ	SB	1G-5/8"	36-WR1G	18'-0"	12/2	2	
37-WR1G	RCPT	4SQ	SB	1G-5/8"	37-WR1G	12'-0"	12/2	1	
38-WR1G	RCPT	4SQ	SB	1G-5/8"	37-WR1G	12'-0"	12/2	1	

SPOOL SET

INDIVIDUAL UNIT SERVICE CALCULATION (NCC 220.82)

(3) DWELLING UNITS 2A - 1088SQFT

LIGHTING (2) SMALL APP. LAUNDRY REFRIGERATOR MICROWAVE DISHWASHER DISPOSAL CLOTHES DRYER RANGE WATER HEATER	3VA/SQFT 1,200VA/EA 1,500VA/EA 900VA/EA 1,200VA/EA 750VA/EA 750VA/EA 5,700VA/EA 8,000VA/EA 4,500VA/EA 4,500VA/EA	3,264VA 3,000VA 1,500VA 900VA 1,200VA 750VA 750VA 5,700VA 8,000VA 4,500VA 29,684VA
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FIRST 10kVA @ 100%

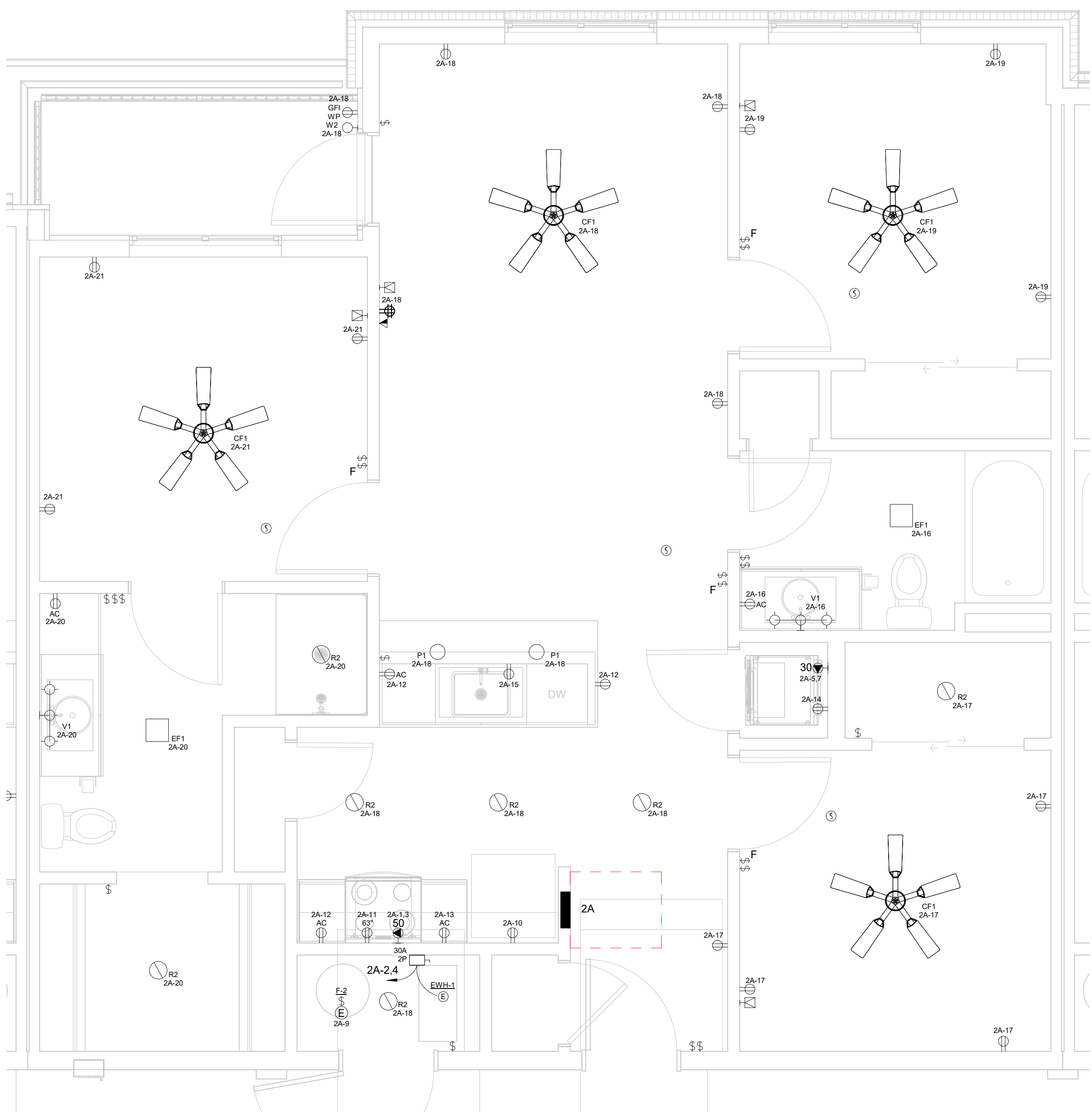
REMAINDER @ 40%

AC UNIT

ELECTRIC HEAT

10,000VA 7,875VA 17,875VA	3,141VA 0VA 3,141VA	120/208V 1Ø 21,014VA/208V 101A (NEC MIN.) 150A FEEDER 150A LOAD CENTER
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BRANCH PANEL NAME	VOLTAGE	PHASE	WIRE	BUS SIZE	MAIN OCP	AIC RATING
2A	120/208V	1	3	150 A	MLO	10 KAIC
ROOM: METER 115	CODE: L=LIGHTING, R=RECEPTACLES, M=MOTORS, K=KITCHEN, E=EQUIPMENT					
FED FROM: RES. MT. STACK	FEED: EC TO VERIFY					
LOAD	CODE	POLE	BWR	CHT #	POLE	CHT #
RANGE	E	2	50 A	1	2	30 A
CLOTHES DRYER GFCI	E	2	30 A	5	2	30 A
FURNANCE (F-2)	M	1	15 A	9	1	15 A
MICROWAVE	E	1	20 A	11	1	20 A
KITCHEN AFCIG/GFCI	R	1	15 A	13	1	15 A
DWIDISP GFCI	E	1	15 A	15	1	15 A
BEDROOM AFCI	R	1	15 A	17	1	15 A
BEDROOM AFCI	R	1	15 A	19	1	15 A
BEDROOM AFCI	R	1	15 A	21	1	15 A
SURGE SUPPRESSOR	--	2	30 A	27	2	30 A
TOTAL LOAD:	15910 VA					
TOTAL AMPS:	149 A					



1 ELECTRICAL PLAN - TYP. UNIT 2A (1088 SF)
3/8" = 1'-0"

ORIGINAL PRINT SIZE = 36x48

KEY PLAN:

JOB NUMBER: 00001

ISSUED FOR:

DATE: 5/23/2023 3:12:37 PM

DRAWN BY: Author CHECKED BY: Checker

DRAWING SCALE: As indicated

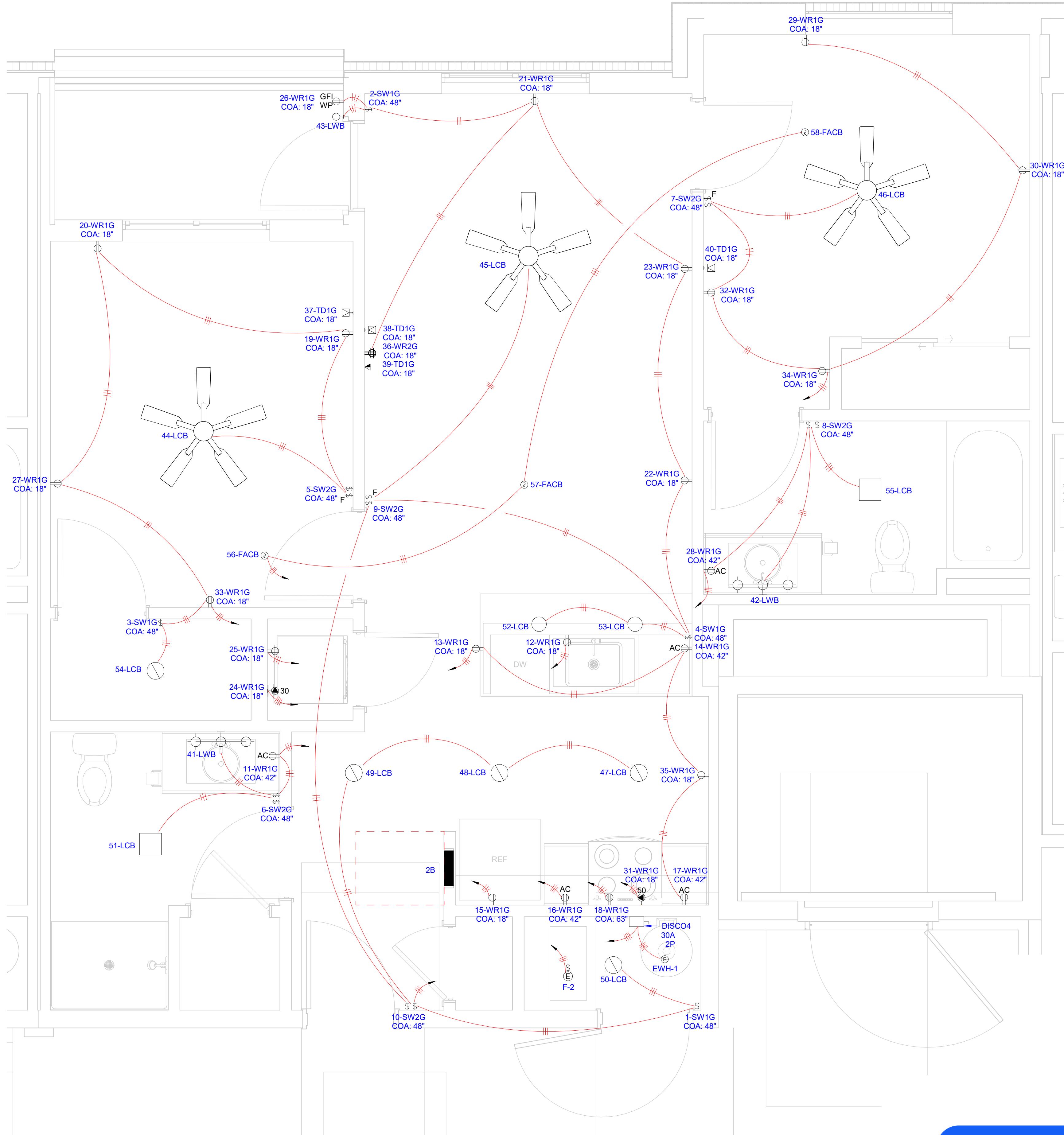
SHEET TITLE: RESEDENTIAL INSTALLATION LAYOUT - UNIT 2A

DRAWING NUMBER:

RESEDENTIAL INSTALLATION LAYOUT - PER UNIT



201 Spear Street, Suite 1750
San Francisco, CA 94105



1 INSTALLATION PLAN - TYP. UNIT 2B (911 SF)
1/2" = 1'-0"

UNIT 2B - FIXTURE SCHEDULE								
MARK	TYPE OF DEVICE	BOX	BRACKET	RING	WHIP GOING TO	LENGTH	WIRE TYPE	QUANTITY OF CONNECTORS
42-LWB	WALL BOX	4SQ	SB	RD-5/8"	8-SW2G	18'-0"	12/2	1
43-LWB	WALL BOX	4SQ WP	SB	RD-5/8"	2-SW1G	12'-0"	8/2	3
44-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	5-SW2G	14'-0"	12/2	1
45-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	9-SW2G	22'-0"	8/2	3
46-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	7-SW2G	14'-0"	10/2	3
47-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	48-LCB	6'-0"	8/2	3
48-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	49-LCB	6'-0"	8/2	3
49-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	10-SW2G	18'-0"	8/2	3
50-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	1-SW1G	12'-0"	8/2	3
51-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	6-SW2G	12'-0"	12/2	1
52-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	53-LCB	4'-0"	8/2	3
53-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	4-SW1G	8'-0"	8/2	3
54-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	3-SW1G	8'-0"	12/2	1
55-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	8-SW2G	10'-0"	12/2	1
56-FACB	CEILING BOX	RACO-196	-	RD-1-1/4"	2B	24'-0"	14/2	2
57-FACB	CEILING BOX	RACO-196	-	RD-1-1/4"	56-FACB	14'-0"	14/2	2
58-FACB	CEILING BOX	RACO-196	-	RD-1-1/4"	57-FACB	26'-0"	14/2	1
DISCO4	DISCONNECT	-	-	-	2B	12'-0"	10/3	3
EW-H1	EQUIPMENT BOX	-	-	-	DISCO4	16'-0"	10/3	3
F-2	EQUIPMENT BOX	-	-	-	2B	22'-0"	14/2	1

ENGINEERING SET

UNIT 2B - FIXTURE SCHEDULE								
MARK	TYPE OF DEVICE	BOX	BRACKET	RING	WHIP GOING TO	LENGTH	WIRE TYPE	QUANTITY OF CONNECTORS
1-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	10-SW2G	14'-0"	8/2	3
2-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	21-WR1G	12'-0"	8/2	3
3-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	33-WR1G	6'-0"	12/2	2
4-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	9-SW2G	30'-0"	8/2	3
5-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	19-WR1G	10'-0"	12/2	2
6-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	11-WR1G	4'-0"	12/2	3
7-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	32-WR1G	8'-0"	10/2	3
8-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	28-WR1G	12'-0"	12/2	2
9-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	10-SW2G	34'-0"	8/2	3
10-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	2B	16'-0"	8/2	3
11-WR1G	RCPT	4SQ	SB	1G-5/8"	2B	24'-0"	12/2	2
12-WR1G	RCPT	4SQ	SB	1G-5/8"	2B	26'-0"	14/2	1
13-WR1G	RCPT	4SQ	SB	1G-5/8"	2B	22'-0"	14/2	2
14-WR1G	RCPT	4SQ	SB	1G-5/8"	13-WR1G	12'-0"	14/2	2
15-WR1G	RCPT	4SQ	SB	1G-5/8"	2B	6'-0"	14/2	1
16-WR1G	RCPT	4SQ	SB	1G-5/8"	2B	8'-0"	14/2	1
17-WR1G	RCPT	4SQ	SB	1G-5/8"	35-WR1G	10'-0"	14/2	1
18-WR1G	RCPT	4SQ	SB	1G-5/8"	2B	10'-0"	12/2	1
19-WR1G	RCPT	4SQ	SB	1G-5/8"	20-WR1G	16'-0"	12/2	2
20-WR1G	RCPT	4SQ	SB	1G-5/8"	27-WR1G	14'-0"	12/2	2
21-WR1G	RCPT	4SQ	SB	1G-5/8"	23-WR1G	14'-0"	8/2	4
22-WR1G	RCPT	4SQ	SB	1G-5/8"	4-SW1G	10'-0"	8/2	3
23-WR1G	RCPT	4SQ	SB	1G-5/8"	22-WR1G	10'-0"	8/2	3
24-WR1G	RCPT	4SQ	SB	1G-5/8"	2B	28'-0"	10/3	3
25-WR1G	RCPT	4SQ	SB	1G-5/8"	2B	28'-0"	12/2	1
26-WR1G	RCPT	4SQ WP	SB	1G-5/8"	2-SW1G	4'-0"	8/2	3
27-WR1G	RCPT	4SQ	SB	1G-5/8"	33-WR1G	12'-0"	12/2	2
28-WR1G	RCPT	4SQ	SB	1G-5/8"	2B	34'-0"	12/2	2
29-WR1G	RCPT	4SQ	SB	1G-5/8"	30-WR1G	16'-0"	10/2	3
30-WR1G	RCPT	4SQ	SB	1G-5/8"	34-WR1G	32'-0"	10/2	3
31-WR1G	RCPT	4SQ	SB	1G-5/8"	2B	12'-0"	6/3	4
32-WR1G	RCPT	4SQ	SB	1G-5/8"	34-WR1G	16'-0"	10/2	3
33-WR1G	RCPT	4SQ	SB	1G-5/8"	2B	32'-0"	12/2	3
34-WR1G	RCPT	4SQ	SB	1G-5/8"	2B	48'-0"	10/2	4
35-WR1G	RCPT	4SQ	SB	1G-5/8"	14-WR1G	8'-0"	14/2	2
36-WR2G	2G RCPT	4SQ	SB	2G-5/8"	21-WR1G	14'-0"	8/2	3
41-LWB	WALL BOX	4SQ	SB	RD-5/8"	6-SW2G	10'-0"	12/2	1

PHASE WIRE - PANEL 2B		
WIRE TYPE	WIRE SIZE	LENGTH
THWN	#6	57'-10 3/8"
THWN	#8	182'-3"
THWN	#10	577'-4 1/2"
THWN	#12	291'-11"
THWN	#14	234'-4 1/8"

NEUTRAL WIRE - PANEL 2B		
WIRE TYPE	WIRE SIZE	LENGTH
THWN	#6	28'-11 1/8"
THWN	#8	182'-3"
THWN	#10	354'-2 1/4"
THWN	#12	291'-11"
THWN	#14	234'-4 1/8"

GROUND WIRE - PANEL 2B		
WIRE TYPE	WIRE SIZE	LENGTH
THWN	#8	182'-3"
THWN	#10	383'-1 3/8"
THWN	#12	291'-11"
THWN	#14	234'-4 1/8"

QUANTITY OF BOXES - UNIT 2B		
TYPE OF BOX	RING	COUNT
4SQ	1G-5/8"	28
4SQ	2G-5/8"	7
4SQ	RD-5/8"	2
4SQ WP	1G-5/8"	1
4SQ WP	RD-5/8"	1
RACO-196	RD-1-1/4"	15

QUANTITY OF CONNECTORS - UNIT 2B	
TYPE OF CONNECTOR	COUNT
MC CONNECTOR	133

SPOOL SET

INDIVIDUAL UNIT SERVICE CALCULATION (NEC 220.85)

(3) DWELLING UNITS 2B - 911SFT

LIGHTING	3VA/SOFT	2,733VA
(2) SMALL APP.	1,500VA/EA	3,000VA
LAUNDRY	1,500VA/EA	1,500VA
REFRIGERATOR	960VA/EA	960VA
MICROWAVE	1,200VA/EA	1,200VA
DISHWASHER	750VA/EA	750VA
DISPOSAL	750VA/EA	750VA
CLOTHES DRYER	5,760VA/EA	5,760VA
RANGE	8,000VA/EA	8,000VA
WATER HEATER	4,500VA/EA	4,500VA

FIRST 10KVA @ 100%

REMAINDER @ 40%

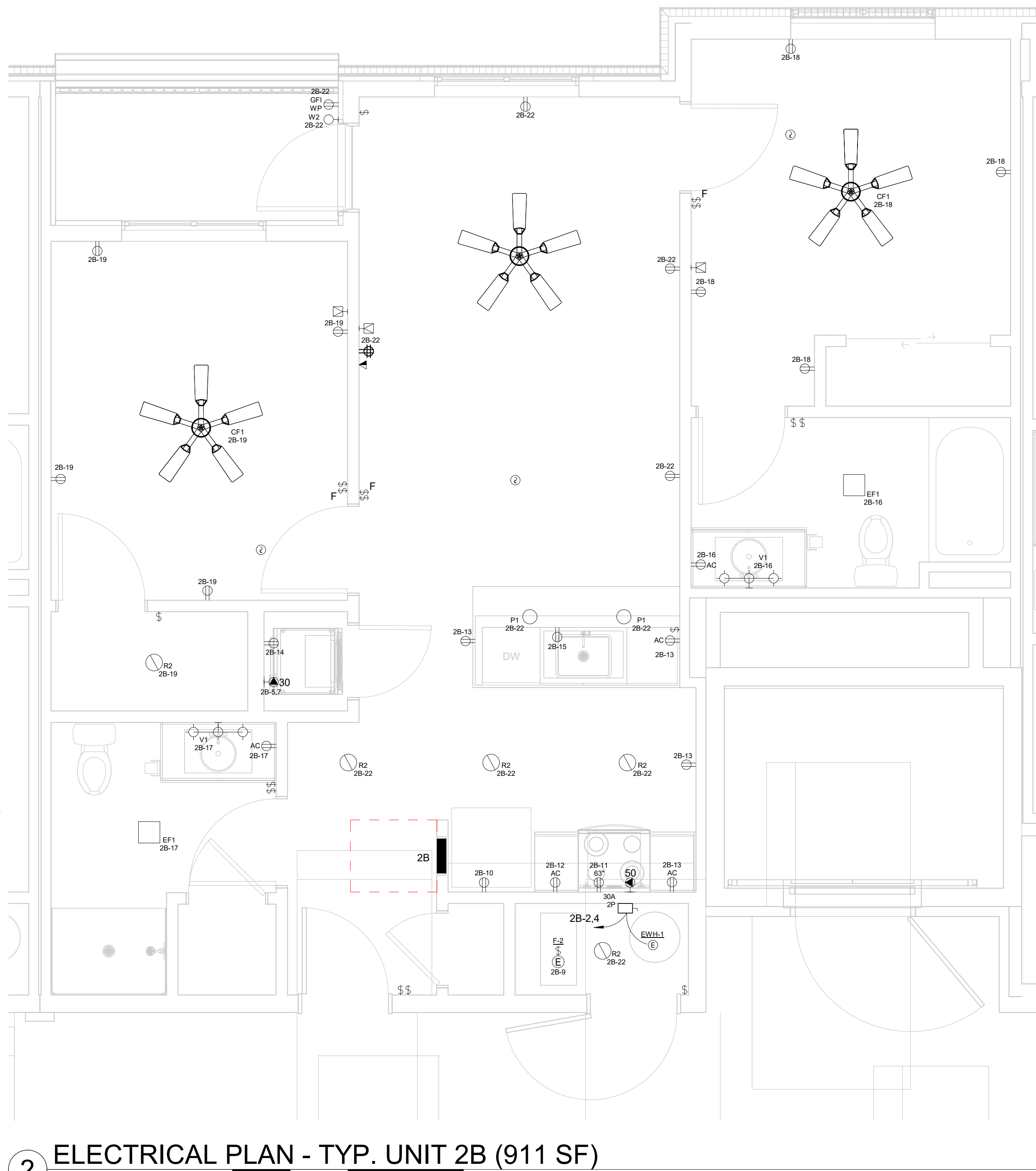
AC UNIT

ELECTRIC HEAT

10,000VA	3,141VA
7,962VA	0VA
17,962VA	3,141VA

120,000/18	20,922/A/208V
96A (NEC MIN.)	100A FEEDER
100A LOAD CENTER	

BRANCH PANEL NAME		VOLTAGE	PHASE	WIRE	BUS SIZE	MAIN OCP	ARC RATING
2B		120/208V	1	3	100 A	MLO	10 kAIC
CODE: L=LIGHTING, R=RECEPTACLES, M=MOTORS, K=KITCHEN, E=EQUIPMENT							MOUNTING: RECESSED
ROOM: METER 115							ENCLOSURE: NEMA1
FED FROM: RES. MT. STACK							FEED: EC TO VERIFY
LOAD	CODE	POLE	BRK	CTE	POLE	BRK	CTE
RANGE	E	2	50 A	4160 VA / 2250 VA	2	30 A	2
CLOTHES DRYER GFCI	E	2	30 A	2496 VA / 1570 VA	6	25 A	2
FURNANCE (F-2)	M	1	15 A	840 VA / 960 VA	10	15 A	1
MICROWAVE	E	1	20 A	11	1200 VA / 180 VA	12	15 A
KITCHEN AFCIG/GFCI	R	1	15 A	13	720 VA / 1500 VA	14	20 A
DW/DISP GFCI	E	1	15 A	13	180 VA / 210 VA	16	20 A
BATHROOM AFCIG/GFCI	R	1	20 A	17	210 VA / 735 VA	18	15 A
BEDROOM AFCI	R	1	15 A	19	745 VA / 0 VA	20	15 A
SURGE SUPPRESSOR	-	-	20	0 VA / 965 VA	22	15 A	1
TOTAL LOAD:		16094 VA		12721 VA			
TOTAL AMPS:		150 A		122 A			



2 ELECTRICAL PLAN - TYP. UNIT 2B (911 SF)
3/8" = 1'-0"

DATE	REVISION	DESCRIPTION
05/22/23	1	ISSUED FOR CONSTRUCTION

BIM COORDINATOR APPROVAL STAMP:

FIELD APPROVAL STAMP:

ELECTRICAL FIXTURE TAG

INDEX NUMBER	TYPE OF DEVICE
WR	WALL RECEPTACLE
SW	LIGHTING SWITCH
LCB	LIGHTING CEILING BOX
LWB	LIGHTING WALL BOX
WB	WALL BOX
TD	TELECOM DEVICE
XX - XXXX	TYPE OF RING
COA: 18"	CENTER OF ASSEMBLIES ABOVE FINISH FLOOR

ORIGINAL PRINT SIZE = 36x48

KEY PLAN:

JOB NUMBER: 00001

ISSUED FOR: 5/23/2023 3:12:37 PM

DRAWN BY: Author

CHECKED BY: Checker

DRAWING SCALE: As indicated

SHEET TITLE: RESEDENTIAL

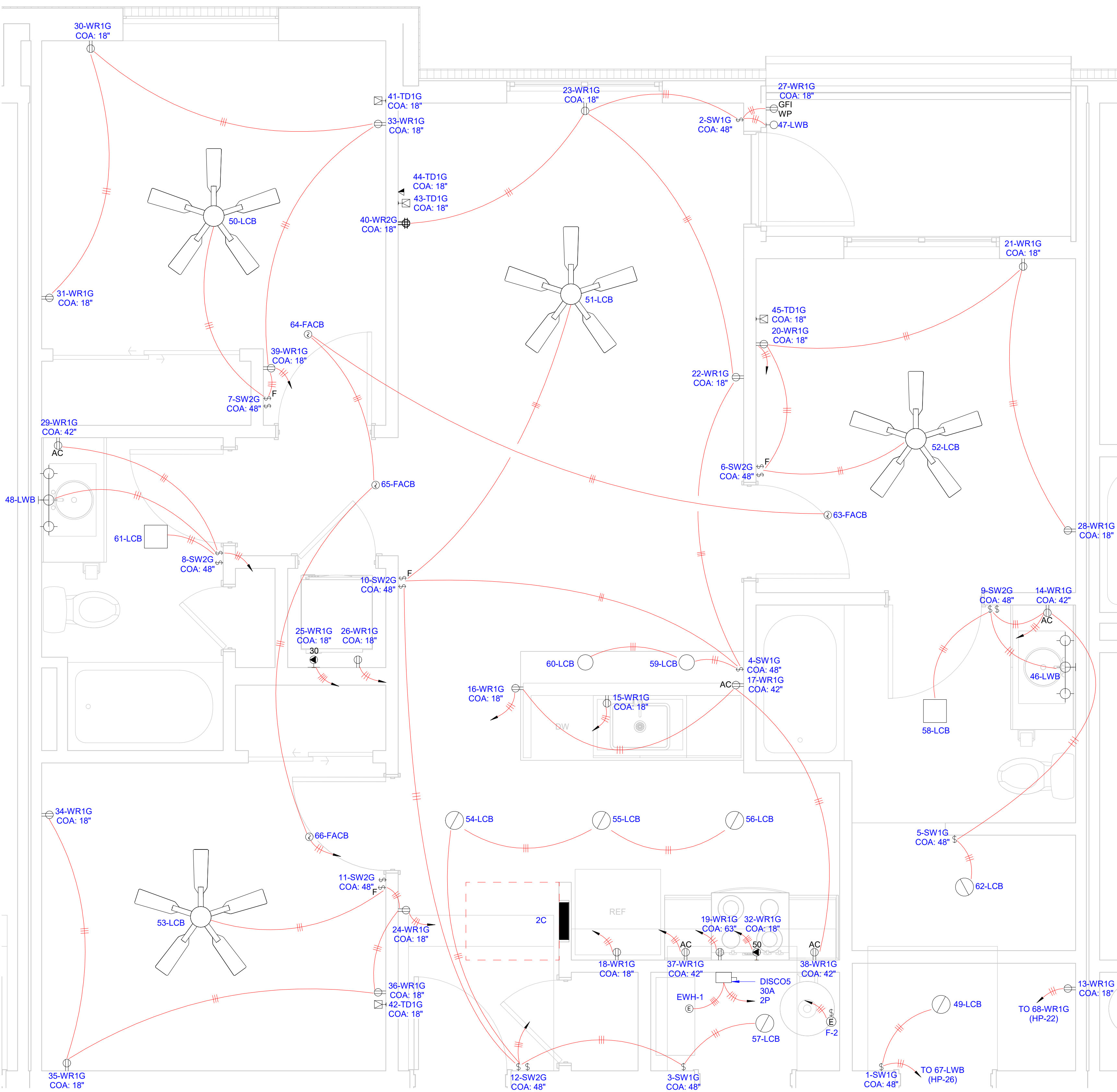
INSTALLATION LAYOUT - UNIT 2B

DRAWING NUMBER:

RESEDENTIAL INSTALLATION LAYOUT - PER UNIT



201 Spear Street, Suite 1750
San Francisco, CA 94105



1 INSTALLATION PLAN - TYP. UNIT 2C (1068 SF)

1/2" = 1'-0"

UNIT 2C - FIXTURE SCHEDULE							
MARK	TYPE OF DEVICE	BOX	BRACKET	RING	WHIP GOING TO	LENGTH	WIRE TYPE
46-LWB	WALL BOX	4SQ	SB	RD-5/8"	9-SW2G	10' - 0"	12/2
47-LWB	WALL BOX	4SQ WP	SB	RD-5/8"	2-SW1G	12' - 0"	10/2
48-LWB	WALL BOX	4SQ	SB	RD-5/8"	8-SW2G	18' - 0"	12/2
49-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	1-SW1G	10' - 0"	12/2
50-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	7-SW2G	14' - 0"	12/2
51-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	10-SW2G	22' - 0"	10/2
52-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	6-SW2G	14' - 0"	14/2
53-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	11-SW2G	14' - 0"	12/2
54-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	12-SW2G	18' - 0"	10/2
55-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	54-LCB	6' - 0"	10/2
56-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	55-LCB	6' - 0"	10/2
57-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	3-SW1G	12' - 0"	10/2
58-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	9-SW2G	12' - 0"	12/2
59-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	4-SW1G	8' - 0"	10/2
60-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	59-LCB	4' - 0"	10/2
61-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	8-SW2G	10' - 0"	12/2
62-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	5-SW1G	8' - 0"	12/2
63-FACB	CEILING BOX	RACO-196	-	RD-1-1/4"	64-FACB	28' - 0"	14/2
64-FACB	CEILING BOX	RACO-196	-	RD-1-1/4"	65-FACB	8' - 0"	14/2
65-FACB	CEILING BOX	RACO-196	-	RD-1-1/4"	66-FACB	16' - 0"	14/2
66-FACB	CEILING BOX	RACO-196	-	RD-1-1/4"	2C	18' - 0"	14/2
DISCO5	DISCONNECT	-	-	-	2C	10' - 0"	10/3
EW-H-1	EQUIPMENT BOX	-	-	-	DISCO5	10' - 0"	10/3
F-2	EQUIPMENT BOX	-	-	-	2C	24' - 0"	14/2

ENGINEERING SET

UNIT 2C - FIXTURE SCHEDULE									
MARK	TYPE OF DEVICE	BOX	BRACKET	RING	WHIP GOING TO	LENGTH	WIRE TYPE	QUANTITY OF CONNECTORS	NOTES
1-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	67-LWB	22' - 0"	12/2	2	
2-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	23-WR1G	10' - 0"	10/2	3	
3-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	12-SW2G	8' - 0"	10/2	3	
4-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	10-SW2G	28' - 0"	10/2	3	
5-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	14-WR1G	16' - 0"	12/2	2	
6-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	20-WR1G	8' - 0"	14/2	2	
7-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	39-WR1G	4' - 0"	12/2	2	
8-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	2C	36' - 0"	12/2	4	
9-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	14-WR1G	4' - 0"	12/2	3	
10-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	12-SW2G	34' - 0"	10/2	4	
11-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	24-WR1G	4' - 0"	12/2	2	
12-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	2C	20' - 0"	10/2	5	
13-WR1G	RCPT	4SQ	SB	1G-5/8"	68-WR1G	30' - 0"	6/2	3	
14-WR1G	RCPT	4SQ	SB	1G-5/8"	2C	42' - 0"	12/2	3	
15-WR1G	RCPT	4SQ	SB	1G-5/8"	2C	22' - 0"	14/2	1	
16-WR1G	RCPT	4SQ	SB	1G-5/8"	2C	22' - 0"	14/2	2	
17-WR1G	RCPT	4SQ	SB	1G-5/8"	16-WR1G	12' - 0"	14/2	2	
18-WR1G	RCPT	4SQ	SB	1G-5/8"	2C	6' - 0"	14/2	1	
19-WR1G	RCPT	4SQ	SB	1G-5/8"	2C	10' - 0"	12/2	1	
20-WR1G	RCPT	4SQ	SB	1G-5/8"	2C	42' - 0"	14/2	3	
21-WR1G	RCPT	4SQ	SB	1G-5/8"	20-WR1G	14' - 0"	14/2	2	
22-WR1G	RCPT	4SQ	SB	1G-5/8"	4-SW1G	12' - 0"	10/2	3	
23-WR1G	RCPT	4SQ	SB	1G-5/8"	22-WR1G	16' - 0"	10/2	4	
24-WR1G	RCPT	4SQ	SB	1G-5/8"	2C	20' - 0"	12/2	3	
25-WR1G	RCPT	4SQ	SB	1G-5/8"	2C	32' - 0"	10/3	3	
26-WR1G	RCPT	4SQ	SB	1G-5/8"	2C	30' - 0"	12/2	1	
27-WR1G	RCPT	4SQ WP	SB	1G-5/8"	2-SW1G	4' - 0"	10/2	3	
28-WR1G	RCPT	4SQ	SB	1G-5/8"	21-WR1G	14' - 0"	14/2	1	
29-WR1G	RCPT	4SQ	SB	1G-5/8"	8-SW2G	14' - 0"	12/2	1	
30-WR1G	RCPT	4SQ	SB	1G-5/8"	33-WR1G	16' - 0"	12/2	2	
31-WR1G	RCPT	4SQ	SB	1G-5/8"	30-WR1G	12' - 0"	12/2	1	
32-WR1G	RCPT	4SQ	SB	1G-5/8"	2C	12' - 0"	6/3	3	
33-WR1G	RCPT	4SQ	SB	1G-5/8"	39-WR1G	30' - 0"	12/2	2	
34-WR1G	RCPT	4SQ	SB	1G-5/8"	35-WR1G	12' - 0"	12/2	1	
35-WR1G	RCPT	4SQ	SB	1G-5/8"	36-WR1G	16' - 0"	12/2	2	
36-WR1G	RCPT	4SQ	SB	1G-5/8"	24-WR1G	4' - 0"	12/2	2	
37-WR1G	RCPT	4SQ	SB	1G-5/8"	2C	8' - 0"	14/2	1	
38-WR1G	RCPT	4SQ	SB	1G-5/8"	17-WR1G	16' - 0"	14/2	1	
39-WR1G	RCPT	4SQ	SB	1G-5/8"	2C	42' - 0"	12/2	3	
40-WR2G	2G RCPT	4SQ	SB	2G-5/8"	23-WR1G	12' - 0"	10/2	3	

PHASE WIRE - PANEL 2C		
WIRE TYPE	WIRE SIZE	LENGTH
THWN	#6	57' - 0 1/2"
THWN	#8	456' - 1 5/8"
THWN	#10	287' - 1 7/8"
THWN	#12	416' - 4 1/4"
THWN	#14	326' - 9 1/4"

NEUTRAL WIRE - PANEL 2C		
WIRE TYPE	WIRE SIZE	LENGTH
THWN	#6	28' - 6 1/4"
THWN	#8	228' - 0 7/8"
THWN	#10	234' - 3 3/8"
THWN	#12	416' - 4 1/4"
THWN	#14	326' - 9 1/4"

GROUND WIRE - PANEL 2C		
WIRE TYPE	WIRE SIZE	LENGTH
THWN	#6	238' - 0 7/8"
THWN	#10	262' - 9 5/8"
THWN	#12	416' - 4 1/4"
THWN	#14	326' - 9 1/4"

QUANTITY OF BOXES - UNIT 2C		
TYPE OF BOX	RING	COUNT
4SQ	1G-5/8"	31
4SQ	2G-5/8"	8
4SQ	RD-5/8"	2
4SQ WP	1G-5/8"	1
4SQ WP	RD-5/8"	1
RACO-196	RD-1-1/4"	18

QUANTITY OF CONNECTORS - UNIT 2C	
TYPE OF CONNECTOR	COUNT
MC CONNECTOR	140

SPOOL SET

INDIVIDUAL UNIT SERVICE CALCULATION (NEC 220.82)									
(6) DWELLING UNITS 2C - 1068SQFT									
LIGHTING		3VA/SQFT		3,284VA					
(2) SMALL APP.		1,500VA/EA		3,000VA					
LAUNDRY		1,500VA/EA		1,500VA					
REFRIGERATOR		900VA/EA		900VA					
MICROWAVE		1,200VA/EA		1,200VA					
DISHWASHER		750VA/EA		750VA					
DISPOSAL		750VA/EA		750VA					
CLOTHES DRYER		5,760VA/EA		5,760VA					
RANGE		8,000VA/EA		8,000VA					
WATER HEATER		4,500VA/EA		4,500VA					
				29,624VA					
FIRST 10VA @ 100%				10,000VA					
REMAINER @ 40%				2,880VA					
				17,850VA					
AC UNIT				3,141VA					
ELECTRIC HEAT				120/208V, 1ø					
				20,991VA/208V					
				101A (NEC MIN.)					
				150A FEEDER					
				150A LOAD CENTER					

BRANCH PANEL NAME		VOLTAGE	PHASE	WIRE	BUS SIZE	MAIN OCP	AC RATING
2C		120/208V	1	3	150 A	MLO	10 kAIC
ROOM: METER 115		CODE: L=LIGHTING, R=RECEPTACLES, M=MOTORS, K=KITCHEN, E=EQUIPMENT					MOUNTING: RECESSED
FED FROM: RES. MT. STACK		ENCLOSURE: NEMA1					FEED: EC TO VERIFY
LOAD	CODE	POLE	BRK	CKT #	W	CKT #	POLE
RANGE	E	2	50 A	1	4160 VA / 2250 VA	2	30 A
CLOTHES DRYER GFCI	E	2	30 A	5	2496 VA / 1570 VA	6	25 A
FURNACE (F-2)	M	1	15 A	9	840 VA / 960 VA	10	15 A
MICROWAVE	E	1	20 A	11	1200 VA / 180 VA	12	15 A
KITCHEN AFCIGFCI	R	1	15 A	13	540 VA / 1500 VA	14	20 A
DW.DRSP GFCI	E	1	15 A	15	180 VA / 210 VA	16	20 A
BATHROOM AFCIGFCI	R	1	20 A	17	220 VA / 735 VA	18	15 A
BEDROOM AFCI	R	1	15 A	19	735 VA / 735 VA	20	15 A
BEDROOM AFCI	R	1	15 A	21	735 VA / 735 VA	22	15 A
SURGE SUPPRESSOR	-	2	30 A	27	0 VA / 0 VA	28	30 A
TOTAL LOAD:		15676 VA		13334 VA			
TOTAL AMPS:		148 A		128 A			



1 ELECTRICAL PLAN - TYP. UNIT 2C (1068 SF)

3/8" = 1'-0"

UNITS: 307, 315, 407, 415, 507, 515

DATE	05/22/23	REVISION	1	DESCRIPTION	ISSUED FOR CONSTRUCTION
All drawings and written material appearing herein constitute original and unpublished work of the architect and may not be duplicated, used or disclosed, without written consent of the architect.					

BIM COORDINATOR APPROVAL STAMP:

FIELD APPROVAL STAMP:

ELECTRICAL FIXTURE TAG

INDEX NUMBER	TYPE OF DEVICE:
WR	WALL RECEPTACLE
SW	LIGHTING SWITCH
LCB	LIGHTING CEILING BOX
LWB	LIGHTING WALL BOX
WB	WALL BOX
TD	TELECOM DEVICE
XX - XXXX	TYPE OF RING
COA: 18"	CENTER OF ASSEMBLIES ABOVE FINISH FLOOR

ORIGINAL PRINT SIZE = 36x48

KEY PLAN:

JOB NUMBER:	00001
ISSUED FOR:	
DATE:	5/23/2023 3:12:37 PM
DRAWN BY: Author	CHECKED BY: Checker
DRAWING SCALE:	As indicated
SHEET TITLE:	

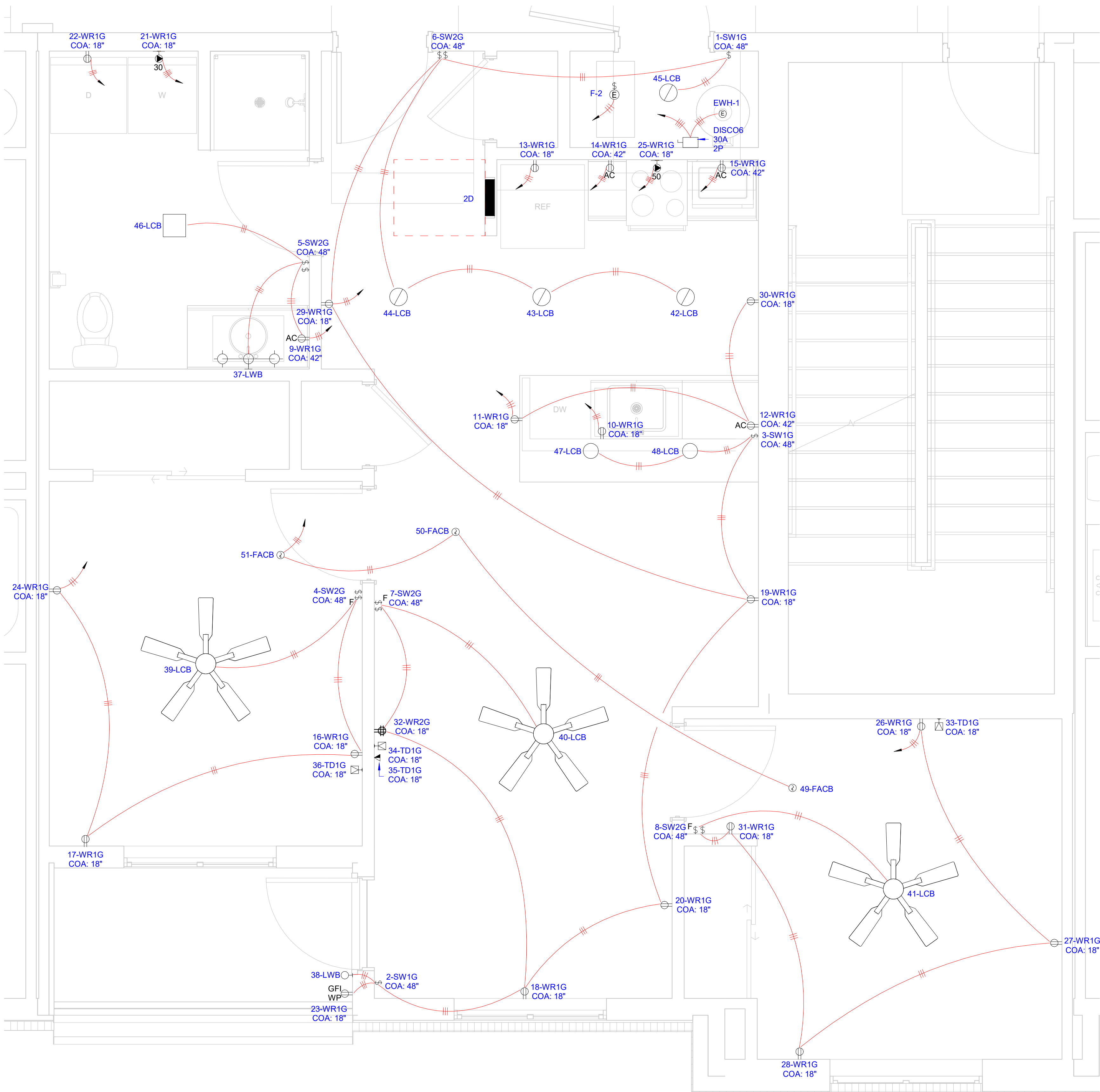
RESEDENTIAL
INSTALLATION
LAYOUT - UNIT 2C

DRAWING NUMBER:

RESEDENTIAL INSTALLATION LAYOUT - PER UNIT



201 Spear Street, Suite 1750
San Francisco, CA 94105



1 INSTALLATION PLAN - TYP. UNIT 2D (845 SF)
1/2" = 1'-0"

ENGINEERING SET

UNIT 2D - FIXTURE SCHEDULE									
MARK	TYPE OF DEVICE	BOX	BRACKET	RING	WHIP GOING TO	LENGTH	WIRE TYPE	QUANTITY OF CONNECTORS	NOTES
1-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	6-SW2G	12'-0"	8/2	4	
2-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	18-WR1G	10'-0"	8/2	5	
3-SW1G	1G SWITCH	4SQ	SB	1G-5/8"	19-WR1G	10'-0"	8/2	4	
4-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	16-WR1G	10'-0"	14/2	2	
5-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	9-WR1G	4'-0"	12/2	3	
6-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	29-WR1G	16'-0"	8/2	5	
7-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	32-WR2G	8'-0"	8/2	4	
8-SW2G	2G SWITCH	4SQ	SB	2G-5/8"	31-WR1G	4'-0"	12/2	2	
9-WR1G	RCPT	4SQ	SB	1G-5/8"	2D	24'-0"	12/2	2	
10-WR1G	RCPT	4SQ	SB	1G-5/8"	2D	28'-0"	14/2	1	
11-WR1G	RCPT	4SQ	SB	1G-5/8"	2D	28'-0"	14/2	2	
12-WR1G	RCPT	4SQ	SB	1G-5/8"	11-WR1G	14'-0"	14/2	2	
13-WR1G	RCPT	4SQ	SB	1G-5/8"	2D	6'-0"	14/2	1	
14-WR1G	RCPT	4SQ	SB	1G-5/8"	2D	10'-0"	14/2	1	
15-WR1G	RCPT	4SQ	SB	1G-5/8"	2D	14'-0"	12/2	1	
16-WR1G	RCPT	4SQ	SB	1G-5/8"	17-WR1G	16'-0"	14/2	2	
17-WR1G	RCPT	4SQ	SB	1G-5/8"	24-WR1G	12'-0"	14/2	2	
18-WR1G	RCPT	4SQ	SB	1G-5/8"	20-WR1G	10'-0"	8/2	5	
19-WR1G	RCPT	4SQ	SB	1G-5/8"	29-WR1G	46'-0"	8/2	5	
20-WR1G	RCPT	4SQ	SB	1G-5/8"	19-WR1G	16'-0"	8/2	4	
21-WR1G	RCPT	4SQ	SB	1G-5/8"	2D	30'-0"	10/3	3	
22-WR1G	RCPT	4SQ	SB	1G-5/8"	2D	34'-0"	12/2	1	
23-WR1G	RCPT	4SQ WP	SB	1G-5/8"	2-SW1G	4'-0"	8/2	3	
24-WR1G	RCPT	4SQ	SB	1G-5/8"	2D	46'-0"	14/2	2	
25-WR1G	RCPT	4SQ	SB	1G-5/8"	2D	12'-0"	6/3	3	
26-WR1G	RCPT	4SQ	SB	1G-5/8"	2D	48'-0"	12/2	2	
27-WR1G	RCPT	4SQ	SB	1G-5/8"	26-WR1G	16'-0"	12/2	2	
28-WR1G	RCPT	4SQ	SB	1G-5/8"	27-WR1G	16'-0"	12/2	2	
29-WR1G	RCPT	4SQ	SB	1G-5/8"	2D	22'-0"	8/2	5	
30-WR1G	RCPT	4SQ	SB	1G-5/8"	12-WR1G	8'-0"	14/2	1	
31-WR1G	RCPT	4SQ	SB	1G-5/8"	28-WR1G	26'-0"	12/2	2	
32-WR2G	2G RCPT	4SQ	SB	2G-5/8"	18-WR1G	18'-0"	8/2	4	
37-LWB	WALL BOX	4SQ	SB	RD-5/8"	5-SW2G	10'-0"	12/2	1	
38-LWB	WALL BOX	4SQ WP	SB	RD-5/8"	2-SW1G	12'-0"	8/2	3	
39-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	4-SW2G	14'-0"	14/2	1	
40-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	7-SW2G	18'-0"	8/2	3	
41-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	8-SW2G	14'-0"	12/2	1	
42-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	43-LCB	6'-0"	8/2	3	
43-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	44-LCB	6'-0"	8/2	3	
44-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	6-SW2G	18'-0"	8/2	4	
45-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	1-SW1G	10'-0"	8/2	3	
46-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	5-SW2G	12'-0"	12/2	1	
47-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	48-LCB	4'-0"	8/2	3	
48-LCB	CEILING BOX	RACO-196	-	RD-1-1/4"	3-SW1G	8'-0"	8/2	4	
49-FACB	CEILING BOX	RACO-196	-	RD-1-1/4"	50-FACB	24'-0"	14/2	1	
50-FACB	CEILING BOX	RACO-196	-	RD-1-1/4"	51-FACB	8'-0"	14/2	2	
51-FACB	CEILING BOX	RACO-196	-	RD-1-1/4"	2D	26'-0"	14/2	2	
DISCO6	DISCONNECT	-	-	-	2D	14'-0"	10/3	4	
EW-H-1	EQUIPMENT BOX	-	-	-	DISCO6	8'-0"	10/3	3	WATER HEATER
F-2	EQUIPMENT BOX	-	-	-	2D	16'-0"	14/2	1	FURNANCE

PHASE WIRE - PANEL 2D		
WIRE TYPE	WIRE SIZE	LENGTH
THWN	#8	55' - 3 3/8"
THWN	#8	198' - 0 1/4"
THWN	#10	382' - 3 1/8"
THWN	#12	243' - 4 1/2"
THWN	#14	312' - 4 7/8"

NEUTRAL WIRE - PANEL 2D		
WIRE TYPE	WIRE SIZE	LENGTH
THWN	#8	27' - 7 5/8"
THWN	#8	198' - 0 1/4"
THWN	#10	191' - 1 5/8"
THWN	#12	243' - 4 1/2"
THWN	#14	312' - 4 7/8"

GROUND WIRE - PANEL 2D		
WIRE TYPE	WIRE SIZE	LENGTH
THWN	#8	198' - 0 1/4"
THWN	#10	218' - 9 1/4"
THWN	#12	243' - 4 1/2"
THWN	#14	312' - 4 7/8"

QUANTITY OF BOXES - UNIT 2D		
TYPE OF BOX	RING	COUNT
4SQ	1G-5/8"	25
4SQ	2G-5/8"	6
4SQ	RD-5/8"	1
4SQ WP	1G-5/8"	1
4SQ WP	RD-5/8"	1
RACO-196	RD-1-1/4"	13

QUANTITY OF CONNECTORS - UNIT 2D	
TYPE OF CONNECTOR	COUNT
MC CONNECTOR	130

SPOOL SET

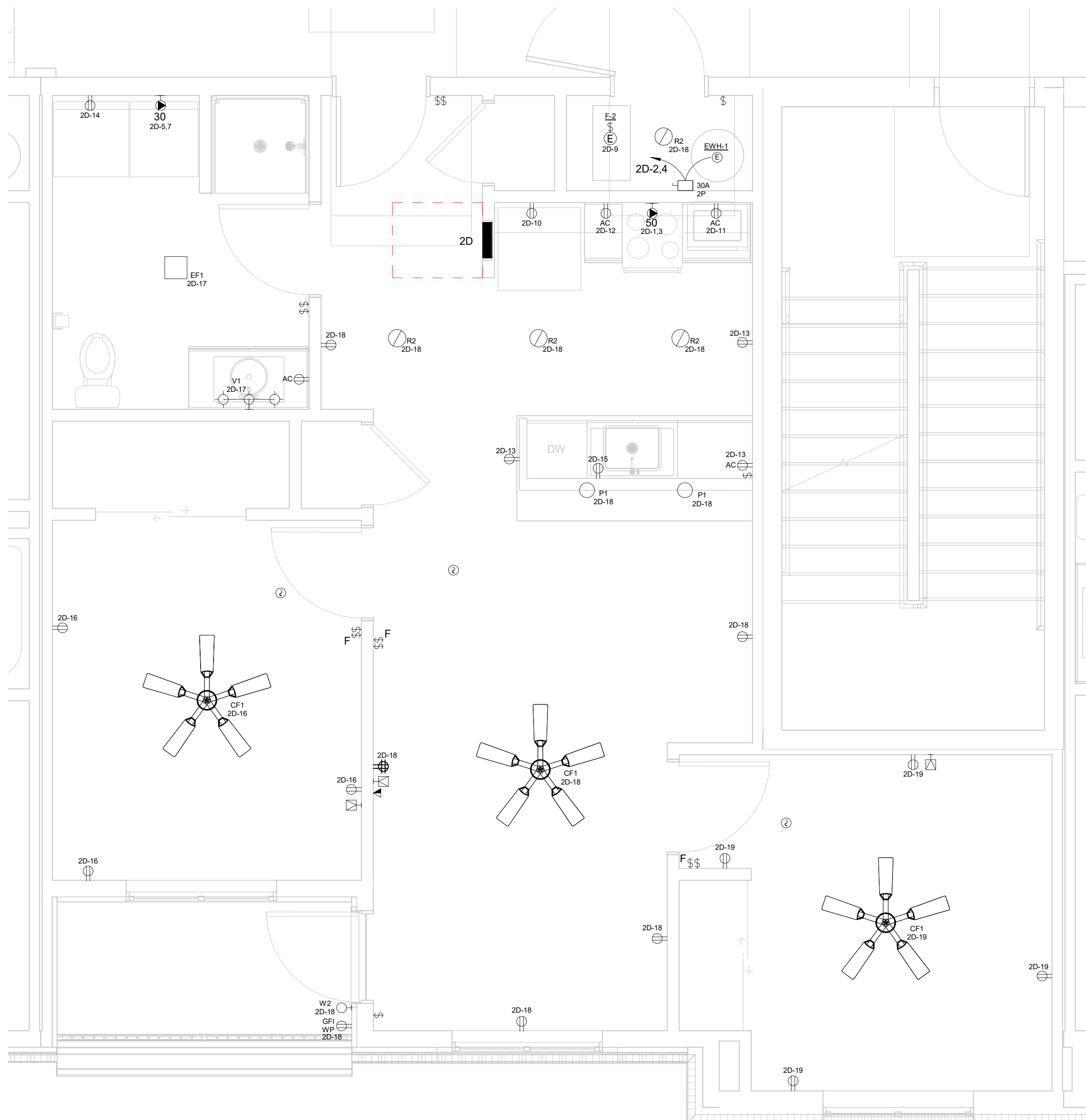
REVISION	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	05/22/23

BIM COORDINATOR APPROVAL STAMP:

FIELD APPROVAL STAMP:

ELECTRICAL FIXTURE TAG

INDEX NUMBER	TYPE OF DEVICE:
WR -	WALL RECEPTACLE
SW -	LIGHTING SWITCH
LCB -	LIGHTING CEILING BOX
FACB -	FIRE ALARM CEILING BOX
LWB -	LIGHTING WALL BOX
WB -	WALL BOX
TD -	TELECOM DEVICE
XX - XXXX	TYPE OF RING
COA: 18"	CENTER OF ASSEMBLIES ABOVE FINISH FLOOR



2 ELECTRICAL PLAN - TYP. UNIT 2D (845 SF)
3/8" = 1'-0"

UNITS: 317, 417, 517

BRANCH PANEL NAME		VOLTAGE	PHASE	WIRE	BUS SIZE	MAIN OCP	AIC RATING
2D		120/208V	1	3	100 A	MLO	10 KAIC
ROOM: METER 115		CODE: L=LIGHTING, R=RECEPTACLES, M=MOTORS, K=KITCHEN, E=EQUIPMENT				MOUNTING: RECESSED	
FED FROM: RES. MT. STACK						ENCLOSURE: NEMA1	
						FEED: EC TO VERIFY	
LOAD	CODE	POLE	BRK	CKT #	A	B	CKT #
RANGE	E	2	50 A	1	4160 VA / 2250 VA	4160 VA / 2250 VA	2 30 A
CLOTHES DRYER GFCI	E	2	30 A	5	2496 VA / 1562 VA	2496 VA / 1562 VA	8 25 A
FURNANCE (F-2)	M	1	15 A	9	840 VA / 960 VA	1440 VA / 180 VA	10 15 A
MICROWAVE	E	1	20 A	11	540 VA / 1500 VA	180 VA / 555 VA	12 15 A
KITCHEN AFCI/GFCI	R	1	15 A	13	210 VA / 1166 VA	735 VA / 0 VA	14 20 A
DW/DRIP GFCI	E	1	15 A	15	0 VA / 0 VA	0 VA / 0 VA	16 15 A
BATHROOM AFCI/GFCI	R	1	20 A	17	0 VA / 0 VA	0 VA / 0 VA	18 15 A
BEDROOM AFCI	R	1	15 A	19	0 VA / 0 VA	0 VA / 0 VA	20 15 A
SURGE SUPPRESSOR	--	2	30 A	21	0 VA / 0 VA	0 VA / 0 VA	22 30 A
TOTAL LOAD:		15387 VA		13283 VA			
TOTAL AMPS:		145 A		128 A			

INDIVIDUAL UNIT SERVICE CALCULATION (NEC 220.82)

(3) DWELLING UNITS 2D - 845SQFT

LIGHTING	3VA/SQFT	2,530VA
(2) SMALL APP.	1,500VA/EA	3,000VA
LAUNDRY	1,500VA/EA	1,500VA
REFRIGERATOR	900VA/EA	900VA
MICROWAVE	1,200VA/EA	1,200VA
DISHWASHER	750VA/EA	750VA
DISPOSAL	750VA/EA	750VA
CLOTHES DRYER	5,760VA/EA	5,760VA
RANGE	8,000VA/EA	8,000VA
WATER HEATER	4,500VA/EA	4,500VA

FIRST 10KVA @ 100%

REMAINDER @ 40%

AC UNIT

ELECTRIC HEAT

10,000VA	7,683VA
2,613VA	17,661VA
500VA	
2,163VA	
120/208V, 1Ø	
15,820VA/208V	
95A (NEC MIN.)	
100A FEEDER	
100A LOAD CENTER	