

APT. LOAD CALCULATIONS

MAIN #1	KW	DEF	KW	AMPS
15 APT. METER CENTERS	x	→	→	→
30 APT. LOADS	x	→	→	→
47 APT. LOADS	1324.7 x .2	→	520.4	→ 1391.1

MAIN #2	KW	DEF	KW	AMPS
15 APT. METER CENTERS	x	→	→	→
30 APT. LOADS	x	→	→	→
45 APT. LOADS	x	→	→	→
51 APT. LOADS	2130.4 x .2	→	550.1	→ 1473.6

TOTAL APTS PER TYPICAL FLOOR
TOTAL APTS PER TOP FLOOR

7 UNIT METER CENTER	304.6 x .44	134.0	372.5
8 " " " "	342.9 x .43	147.4	409.0
11 " " " "	453.1 x .42	190.0	536.5
14 " " " "	584.0 x .40	233.6	649.4
16 " " " "	662.2 x .39	258.2	718.1
12 " " " "	501.5 x .41	205.6	571.6
24 UNIT FEEDER	1005.1 x .35	351.7	977.8

PANEL DATA	CIRCUIT No.	C.B.	TRIP	KW LOAD	LOAD DESCRIPTION	WIRE & CONDUIT	NOTES
12/20/208 V 10 3W FLUSH MTR	1-3	1	15	7.8	LIGHTS & RECEPT.	2" 14 TW-1/2"	*3 W/G.F.I.
	9,10	1	20	3.0	SMALL APP.	2" 12 TW-1/2"	
	11			1.5	DISHWASHER		
	12			1.2	DISPOSAL		
	13			1.0	COMPACTOR		
	14			1.0	REFRIGERATOR		
	15			1.5	WASHER		
	16,18	2	30	5.0	DRYER	3" 10 TW-1/2"	
	17,19	2	30	4.0	E.W.H. #1	2" 10 TW-1/2"	
	20,22	2	30	12.0	RANGE	3" 6 THW-1"	
	21,23	2	40	1.2	A/C	2" 12 TW-1/2"	TYP FL.
	27	1	NC	2.0	WHIRLPOOL	2" 12 TW-1/2"	W/G.F.I.
	24,26	2	NO	25	F...	2" 10	
	21,23	2	40	7.5	A/C	2" 8 TW-3/4"	TYP FL.

FIRST 10 KW @ 100% → 10.0
A/C KW @ 100% → 5.0
NEXT 2.7 KW @ 40% → 1.1
27.5 AMPS - 3 NO. 10, 1 NO. 2
15.0 AMPS (TOP FL. APT.) - 3 NO. 10, 1 NO. 2 - 20-2"

PANEL DATA	CIRCUIT No.	C.B.	TRIP	KW LOAD	LOAD DESCRIPTION	WIRE & CONDUIT	NOTES
12/20/208 V 10 3W FLUSH MTR	1-3	1	15	6.3	LIGHTS & RECEPT.	2" 14 TW-1/2"	*3 W/G.F.I.
	9,10	1	20	3.0	SMALL APP.	2" 12 TW-1/2"	
	11			1.5	DISHWASHER		
	12			1.2	DISPOSAL		
	13			1.0	COMPACTOR		
	14			1.0	REFRIGERATOR		
	15			1.5	WASHER		
	16,18	2	30	5.0	DRYER	3" 10 TW-1/2"	
	17,19	2	30	4.5	E.W.H.	2" 10 TW-1/2"	
	20,22	2	30	12.0	RANGE	3" 6 THW-1"	
	21,23	2	40	1.2	A/C	2" 12 TW-1/2"	TYP FL.
	27	1	NC	2.0	WHIRLPOOL	2" 12 TW-1/2"	W/G.F.I.
	21,23	2	40	10	A/C	2" 8 TW-3/4"	TYP FL.

FIRST 10 KW @ 100% → 10.0
A/C KW @ 100% → 5.0
NEXT 2.7 KW @ 40% → 1.1
21.2 AMPS - 3 NO. 10, 1 NO. 2
12.3 AMPS (TOP FL. APT.) - 3 NO. 10, 1 NO. 2 - 20-2"

PANEL DATA	CIRCUIT No.	C.B.	TRIP	KW LOAD	LOAD DESCRIPTION	WIRE & CONDUIT	NOTES
12/20/208 V 10 3W FLUSH MTR	1-3	1	15	6.2	LIGHTS & RECEPT.	2" 14 TW-1/2"	*3 W/G.F.I.
	9,10	1	20	3.0	SMALL APP.	2" 12 TW-1/2"	
	11			1.5	DISHWASHER		
	12			1.2	DISPOSAL		
	13			1.0	COMPACTOR		
	14			1.0	REFRIGERATOR		
	15			1.5	WASHER		
	16,18	2	30	5.0	DRYER	3" 10 TW-1/2"	
	17,19	2	30	4.5	E.W.H.	2" 10 TW-1/2"	
	20,22	2	30	12.0	RANGE	3" 6 THW-1"	
	21,23	2	40	1.2	A/C	2" 12 TW-1/2"	TYP FL.
	27	1	NC	2.0	WHIRLPOOL	2" 12 TW-1/2"	W/G.F.I.
	21,23	2	40	10	A/C	2" 8 TW-3/4"	TYP FL.

FIRST 10 KW @ 100% → 10.0
A/C KW @ 100% → 5.0
NEXT 2.7 KW @ 40% → 1.1
25.2 AMPS - 3 NO. 10, 1 NO. 2
12.3 AMPS (TOP FL. APT.) - 3 NO. 10, 1 NO. 2 - 20-2"

PANEL DATA	CIRCUIT No.	C.B.	TRIP	KW LOAD	LOAD DESCRIPTION	WIRE & CONDUIT	NOTES
12/20/208 V 10 3W FLUSH MTR	1-3	1	15	5.2	LIGHTS & RECEPT.	2" 14 TW-1/2"	*7 W/G.F.I.
	9,10	1	20	3.0	SMALL APP.	2" 12 TW-1/2"	
	11			1.5	DISHWASHER		
	12			1.2	DISPOSAL		
	13			1.0	COMPACTOR		
	14			1.0	REFRIGERATOR		
	15			1.5	WASHER		
	16,18	2	30	5.0	DRYER	3" 10 TW-1/2"	
	17,19	2	30	4.0	E.W.H.	2" 10 TW-1/2"	
	20,22	2	30	12.0	RANGE	3" 6 THW-1"	
	21,23	2	40	1.2	A/C	2" 12 TW-1/2"	TYP FL.
	27	1	NC	2.0	WHIRLPOOL	2" 12 TW-1/2"	W/G.F.I.
	21,23	2	40	40.3	A/C	2" 8 TW-3/4"	TYP FL.

FIRST 10 KW @ 100% → 10.0
A/C KW @ 100% → 5.0
NEXT 2.7 KW @ 40% → 1.1
10.8 AMPS - 3 NO. 10, 1 NO. 2
12.4 AMPS (TOP FL. APT.) - 3 NO. 10, 1 NO. 2 - 20-2"

PANEL DATA	CIRCUIT No.	C.B.	TRIP	KW LOAD	LOAD DESCRIPTION	WIRE & CONDUIT	NOTES
12/20/208 V 10 3W FLUSH MTR	1-3	1	15	4.5	LIGHTS & RECEPT.	2" 14 TW-1/2"	*6 W/G.F.I.
	9,10	1	20	3.0	SMALL APP.	2" 12 TW-1/2"	
	11			1.5	DISHWASHER		
	12			1.2	DISPOSAL		
	13			1.0	COMPACTOR		
	14			1.0	REFRIGERATOR		
	15			1.5	WASHER		
	16,18	2	30	5.0	DRYER	3" 10 TW-1/2"	
	17,19	2	30	4.0	E.W.H.	2" 10 TW-1/2"	
	20,22	2	30	12.0	RANGE	3" 6 THW-1"	
	21,23	2	40	1.2	A/C	2" 12 TW-1/2"	TYP FL.
	27	1	NC	2.0	WHIRLPOOL	2" 12 TW-1/2"	W/G.F.I.
	21,23	2	40	5.3	A/C	2" 8 TW-3/4"	TYP FL.

FIRST 10 KW @ 100% → 10.0
A/C KW @ 100% → 5.0
NEXT 2.7 KW @ 40% → 1.1
5.4 AMPS - 3 NO. 10, 1 NO. 2
12.3 AMPS (TOP FL. APT.) - 3 NO. 10, 1 NO. 2 - 20-2"

PANEL DATA	CIRCUIT No.	C.B.	TRIP	KW LOAD	LOAD DESCRIPTION	WIRE & CONDUIT	NOTES
12/20/208 V 10 3W FLUSH MTR	1-3	1	15	7.8	LIGHTS & RECEPT.	2" 14 TW-1/2"	*7 W/G.F.I.
	9,10	1	20	3.0	SMALL APP.	2" 12 TW-1/2"	
	11			1.5	DISHWASHER		
	12			1.2	DISPOSAL		
	13			1.0	COMPACTOR		
	14			1.0	REFRIGERATOR		
	15			1.5	WASHER		
	16,18	2	30	5.0	DRYER	3" 10 TW-1/2"	
	17,19	2	25	3.5	E.W.H. #1	2" 10 TW-1/2"	
	20,22	2	30	12.0	RANGE	3" 6 THW-1"	
	21,23	2	40	1.2	A/C	2" 12 TW-1/2"	TYP FL.
	27	1	NC	2.0	WHIRLPOOL	2" 12 TW-1/2"	W/G.F.I.
	21,23	2	40	47.9	A/C	2" 8 TW-3/4"	TYP FL.

FIRST 10 KW @ 100% → 10.0
A/C KW @ 100% → 5.0
NEXT 2.7 KW @ 40% → 1.1
28.2 AMPS - 3 NO. 10, 1 NO. 2
12.4 AMPS (TOP FL. APT.) - 3 NO. 10, 1 NO. 2 - 20-2"

NOTE:
1. SIZE ALL PANELS AS PER N.E.C., COORDINATE FEEDER & PANEL SIZES.

AS BUILT REVISIONS
Rev: 4-8-86
Rev: 3-3-87
Wagner
Wagner
9/3/88

R. W. M. CLAYTON JR. ARCHITECT
1908 EAST OAKLAND PARK BLVD. FT. LAUDERDALE, FLA.
E & E CONSULTING ENGINEERS
2701 EAST SUNRISE BLVD. FT. LAUDERDALE, FLA.
OVERLOOK CONDOMINIUM
ELECTRICAL PANELS

DRAWN BY: G.K.
JOB NO: 8101
DATE: 8-12-81
REVISIONS: 6-11-84

SHEET E7