

Professional Design Associates, Inc. PANELBOARD: H1

PROJECT NAME: LORENZI PARK
PROJECT NUMBER: 25043
PANEL LOCATION: MSA
BUS MATERIAL: CU
GROUND BUS: YES
BRANCH BRKR: BOLT-ON
NEUTRAL RATNG: 100%
POLES REQUIRED: 48

VOLTS L-L: 480
VOLTS L-N: 277
PHASE: 3
WIRE: 4
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
DATE: 06/22/07

M.O.: 250
M.C.B.: 250
AC RATING: 14 K
SERIES RATED: YES
BASIS OF DESIGN: S.G.D. - LINE - 48" W. X 6.5" D.

LOAD SERVED	PHASE "A"	PHASE "B"	PHASE "C"	CIRCUIT BREAKER NUMBER	CIRCUIT BREAKER POLE	PHASE "A"	PHASE "B"	PHASE "C"	LOAD SERVED
1 POLE-A (NORTH)	2500			20	3	1	2	3	2500
1 POLE-A (SOUTH)		2500		20	3	1	2	3	2500
1 POLE-B4 (NORTH)	3500			20	3	7	8	9	3500
1 POLE-B4 (SOUTH)		3500		20	3	7	8	9	3500
1 POLE-A3	2500			20	3	13	14	15	2500
1 POLE-B3		2500		20	3	13	14	15	2500
1 POLE-C3	2500			20	3	25	26	27	2500
1 POLE-B3		2500		20	3	25	26	27	2500
1 POLE-C4	2500			20	3	31	32	33	2500
1 POLE-B4		2500		20	3	31	32	33	2500
8 SPACE				1	37	38			SPACE
8 SPACE				1	39	40			SPACE
8 SPACE				1	41	42			SPACE
0 SUB-FEED									0
0 SUB-TOTALS	17000	17000	17000						17000

CONNECTED VA - PHASE A: 34000
CONNECTED VA - PHASE B: 34000
CONNECTED VA - PHASE C: 34000
TOTAL CONNECTED VA: 102000

CONNECTED AMPS - PHASE A: 122.7
CONNECTED AMPS - PHASE B: 122.7
CONNECTED AMPS - PHASE C: 122.7
MAX. CONN. PHASE AMPS = "A" @ 122.7

CONNECTED KVA: 102.0
NEC DIVERSITY KVA: 102.0
NEC DEMAND KVA: 133.9
NEC DEMAND AMPS: 181.2

GENERAL NOTES:
* BRANCH CIRCUIT BREAKERS SHALL BE ARRANGED AS INDICATED ABOVE. PHASING DEVIATIONS WILL NOT BE ALLOWED.
* ALL CIRCUIT BREAKERS FEEDING REFRIGERATION EQUIPMENT SHALL BE "HCR" TYPE PER EQUIPMENT NAMEPLATE.

N.E.C. DEMAND CALCULATIONS FOR PANEL - H1

1 CONNECTED LIGHTING LOAD	102000 VA	CONNECTED LIGHTING LOAD @ 125% =	127500 VA
2 CONNECTED RECEPTACLE LOAD	0 VA	1st 10 KW OF RECEPTACLES @ 100% + BALANCE @	0 VA
3 CONNECTED EQUIPMENT LOAD	0 VA	EQUIPMENT LOAD DEMANDED @	0 VA
4 CONNECTED KITCHEN EQUIPMENT LOAD	0 VA	PER NEC 220-20, 0 KITCHEN UNITS @	0 VA
5 CONNECTED HEATING LOAD	0 VA	LARGER OF HEATING OR COOLING LOAD @	0 VA
6 CONNECTED COOLING LOAD	0 VA	LARGER OF HEATING OR HEATING LOAD @	0 VA
7 CONNECTED HEAT PUMP LOAD	0 VA	HEAT PUMP COMPRESSOR & HEAT STRPS @	0 VA
8 CONNECTED ELEVATOR LOAD	0 VA	PER NEC 620-14, 0 ELEVATORS @	0 VA
9 CONNECTED MISC. MECHANICAL LOAD	0 VA	MISC. MECHANICAL LOAD @	0 VA
10 CONNECTED HOTEL GUEST ROOM LOAD	0 VA	HOTEL GUEST ROOM LOAD PER NEC 220-11	0 VA
11 CONNECTED NON-COINCIDENTAL LOAD	0 VA	NON-COINCIDENTAL LOAD (NON-ADDITIVE)	0 VA
12 LARGEST MOTOR	0 VA	VA OF LARGEST MOTOR @	25% = 0 VA
ADDITIONAL SPARE CAPACITY ADDED	0 VA	5% =	6375 VA
TOTAL CONNECTED:	102000 VA	TOTAL DEMAND:	133875 VA

Professional Design Associates, Inc. PANELBOARD: H2

PROJECT NAME: LORENZI PARK
PROJECT NUMBER: 25043
PANEL LOCATION: MSA
BUS MATERIAL: CU
GROUND BUS: YES
BRANCH BRKR: BOLT-ON
NEUTRAL RATNG: 100%
POLES REQUIRED: 48

VOLTS L-L: 480
VOLTS L-N: 277
PHASE: 3
WIRE: 4
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
DATE: 06/22/07

M.O.: 250
M.C.B.: 250
AC RATING: 14 K
SERIES RATED: YES
BASIS OF DESIGN: S.G.D. - NP - 20" W. X 6.5" D.

LOAD SERVED	PHASE "A"	PHASE "B"	PHASE "C"	CIRCUIT BREAKER NUMBER	CIRCUIT BREAKER POLE	PHASE "A"	PHASE "B"	PHASE "C"	LOAD SERVED
1 POLE-A1 (NORTH)	2500			20	3	1	2	3	2500
1 POLE-A1 (SOUTH)		2500		20	3	1	2	3	2500
1 POLE-B1 (NORTH)	3500			20	3	7	8	9	3500
1 POLE-B1 (SOUTH)		3500		20	3	7	8	9	3500
1 POLE-A2	2500			20	3	13	14	15	2500
1 POLE-B2		2500		20	3	13	14	15	2500
1 POLE-C2	2500			20	3	25	26	27	2500
1 POLE-B2		2500		20	3	25	26	27	2500
1 POLE-C3	2500			20	3	31	32	33	2500
1 POLE-B3		2500		20	3	31	32	33	2500
8 SPACE				1	37	38			SPACE
8 SPACE				1	39	40			SPACE
8 SPACE				1	41	42			SPACE
0 SUB-FEED									0
0 SUB-TOTALS	17000	17000	17000						17000

CONNECTED VA - PHASE A: 34000
CONNECTED VA - PHASE B: 34000
CONNECTED VA - PHASE C: 34000
TOTAL CONNECTED VA: 102000

CONNECTED AMPS - PHASE A: 122.7
CONNECTED AMPS - PHASE B: 122.7
CONNECTED AMPS - PHASE C: 122.7
MAX. CONN. PHASE AMPS = "A" @ 122.7

CONNECTED KVA: 102.0
NEC DIVERSITY KVA: 102.0
NEC DEMAND KVA: 133.9
NEC DEMAND AMPS: 181.2

GENERAL NOTES:
* BRANCH CIRCUIT BREAKERS SHALL BE ARRANGED AS INDICATED ABOVE. PHASING DEVIATIONS WILL NOT BE ALLOWED.
* ALL CIRCUIT BREAKERS FEEDING REFRIGERATION EQUIPMENT SHALL BE "HCR" TYPE PER EQUIPMENT NAMEPLATE.

N.E.C. DEMAND CALCULATIONS FOR PANEL - H2

1 CONNECTED LIGHTING LOAD	102000 VA	CONNECTED LIGHTING LOAD @ 125% =	127500 VA
2 CONNECTED RECEPTACLE LOAD	0 VA	1st 10 KW OF RECEPTACLES @ 100% + BALANCE @	0 VA
3 CONNECTED EQUIPMENT LOAD	0 VA	EQUIPMENT LOAD DEMANDED @	0 VA
4 CONNECTED KITCHEN EQUIPMENT LOAD	0 VA	PER NEC 220-20, 0 KITCHEN UNITS @	0 VA
5 CONNECTED HEATING LOAD	0 VA	LARGER OF HEATING OR COOLING LOAD @	0 VA
6 CONNECTED COOLING LOAD	0 VA	LARGER OF HEATING OR HEATING LOAD @	0 VA
7 CONNECTED HEAT PUMP LOAD	0 VA	HEAT PUMP COMPRESSOR & HEAT STRPS @	0 VA
8 CONNECTED ELEVATOR LOAD	0 VA	PER NEC 620-14, 0 ELEVATORS @	0 VA
9 CONNECTED MISC. MECHANICAL LOAD	0 VA	MISC. MECHANICAL LOAD @	0 VA
10 CONNECTED HOTEL GUEST ROOM LOAD	0 VA	HOTEL GUEST ROOM LOAD PER NEC 220-11	0 VA
11 CONNECTED NON-COINCIDENTAL LOAD	0 VA	NON-COINCIDENTAL LOAD (NON-ADDITIVE)	0 VA
12 LARGEST MOTOR	0 VA	VA OF LARGEST MOTOR @	25% = 0 VA
ADDITIONAL SPARE CAPACITY ADDED	0 VA	5% =	6375 VA
TOTAL CONNECTED:	102000 VA	TOTAL DEMAND:	133875 VA

Professional Design Associates, Inc. PANELBOARD: H3

PROJECT NAME: LORENZI PARK
PROJECT NUMBER: 25043
PANEL LOCATION: MSA
BUS MATERIAL: CU
GROUND BUS: YES
BRANCH BRKR: BOLT-ON
NEUTRAL RATNG: 100%
POLES REQUIRED: 36

VOLTS L-L: 480
VOLTS L-N: 277
PHASE: 3
WIRE: 4
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
DATE: 06/22/07

M.O.: 125
M.C.B.: 125
AC RATING: 14 K
SERIES RATED: YES
BASIS OF DESIGN: S.G.D. - NP - 20" W. X 6.5" D.

LOAD SERVED	PHASE "A"	PHASE "B"	PHASE "C"	CIRCUIT BREAKER NUMBER	CIRCUIT BREAKER POLE	PHASE "A"	PHASE "B"	PHASE "C"	LOAD SERVED
1 BLEACHER LTR	432			20	1	1	2	1	432
1 BLEACHER LTR		432		20	1	1	2	1	432
1 TOT LOT LTR	280			20	1	7	8	1	1050
8 SPACE				1	11	12			SPACE
8 SPACE				1	13	14			SPACE
8 SPACE				1	15	16			SPACE
8 SPACE				1	17	18			SPACE
8 SPACE				1	19	20			SPACE
8 SPACE				1	21	22			SPACE
8 SPACE				1	23	24			SPACE
8 SPACE				1	25	26			SPACE
8 SPACE				1	27	28			SPACE
8 SPACE				1	29	30			SPACE
0 SUB-FEED									0
0 SUB-TOTALS	712	432	280						2882

CONNECTED VA - PHASE A: 3594
CONNECTED VA - PHASE B: 1120
CONNECTED VA - PHASE C: 2730
TOTAL CONNECTED VA: 7444

CONNECTED AMPS - PHASE A: 13.0
CONNECTED AMPS - PHASE B: 4.0
CONNECTED AMPS - PHASE C: 9.9
MAX. CONN. PHASE AMPS = "A" @ 13.0

CONNECTED KVA: 7.4
NEC DIVERSITY KVA: 7.4
NEC DEMAND KVA: 8.8
NEC DEMAND AMPS: 11.8

GENERAL NOTES:
* BRANCH CIRCUIT BREAKERS SHALL BE ARRANGED AS INDICATED ABOVE. PHASING DEVIATIONS WILL NOT BE ALLOWED.
* ALL CIRCUIT BREAKERS FEEDING REFRIGERATION EQUIPMENT SHALL BE "HCR" TYPE PER EQUIPMENT NAMEPLATE.

N.E.C. DEMAND CALCULATIONS FOR PANEL - H3

1 CONNECTED LIGHTING LOAD	7444 VA	CONNECTED LIGHTING LOAD @ 125% + BALANCE @	9305 VA
2 CONNECTED RECEPTACLE LOAD	0 VA	1st 10 KW OF RECEPTACLES @ 100% + BALANCE @	0 VA
3 CONNECTED EQUIPMENT LOAD	0 VA	EQUIPMENT LOAD DEMANDED @	0 VA
4 CONNECTED KITCHEN EQUIPMENT LOAD	0 VA	PER NEC 220-20, 0 KITCHEN UNITS @	0 VA
5 CONNECTED HEATING LOAD	0 VA	LARGER OF HEATING OR COOLING LOAD @	0 VA
6 CONNECTED COOLING LOAD	0 VA	LARGER OF HEATING OR HEATING LOAD @	0 VA
7 CONNECTED HEAT PUMP LOAD	0 VA	HEAT PUMP COMPRESSOR & HEAT STRPS @	0 VA
8 CONNECTED ELEVATOR LOAD	0 VA	PER NEC 620-14, 0 ELEVATORS @	0 VA
9 CONNECTED MISC. MECHANICAL LOAD	0 VA	MISC. MECHANICAL LOAD @	0 VA
10 CONNECTED HOTEL GUEST ROOM LOAD	0 VA	HOTEL GUEST ROOM LOAD PER NEC 220-11	0 VA
11 CONNECTED NON-COINCIDENTAL LOAD	0 VA	NON-COINCIDENTAL LOAD (NON-ADDITIVE)	0 VA
12 LARGEST MOTOR	0 VA	VA OF LARGEST MOTOR @	25% = 0 VA
ADDITIONAL SPARE CAPACITY ADDED	0 VA	5% =	465 VA
TOTAL CONNECTED:	7444 VA	TOTAL DEMAND:	9770 VA

Professional Design Associates, Inc. PANELBOARD: L1

PROJECT NAME: LORENZI PARK
PROJECT NUMBER: 25043
PANEL LOCATION: MSA
BUS MATERIAL: CU
GROUND BUS: YES
BRANCH BRKR: BOLT-ON
NEUTRAL RATNG: 100%
POLES REQUIRED: 30

VOLTS L-L: 208
VOLTS L-N: 120
PHASE: 3
WIRE: 4
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
DATE: 06/22/07

M.O.: 225
M.C.B.: 225
AC RATING: 14 K
SERIES RATED: YES
BASIS OF DESIGN: S.G.D. - QED

LOAD SERVED	PHASE "A"	PHASE "B"	PHASE "C"	CIRCUIT BREAKER NUMBER	CIRCUIT BREAKER POLE	PHASE "A"	PHASE "B"	PHASE "C"	LOAD SERVED
2 PLAZA RECEP	540			20	1	1	2	1	540
2 PLAZA RECEP		540		20	1	1	2	1	540
2 PLAZA RECEP	360			20	1	5	6	1	360
2 PLAZA RECEP		360		20	1	5	6	1	360
3 IRRIG CONTROL				20	1	9	10	1	0
8 SPACE				1	11	12			SPACE
8 SPACE				1	13	14			SPACE
8 SPACE				1	15	16			SPACE
8 SPACE				1	17	18			SPACE
8 SPACE				1	19	20			SPACE
8 SPACE				1	21	22			SPACE
8 SPACE				1	23	24			SPACE
8 SPACE				1	25	26			SPACE
8 SPACE				1	27	28			SPACE
8 SPACE				1	29	30			SPACE
0 SUB-FEED									0
0 SUB-TOTALS	890	1540	360						12790

CONNECTED VA - PHASE A: 14590
CONNECTED VA - PHASE B: 14370
CONNECTED VA - PHASE C: 13240
TOTAL CONNECTED VA: 42170

CONNECTED AMPS - PHASE A: 121.3
CONNECTED AMPS - PHASE B: 119.8
CONNECTED AMPS - PHASE C: 110.3
MAX. CONN. PHASE AMPS = "A" @ 121.3

CONNECTED KVA: 42.2
NEC DIVERSITY KVA: 38.9
NEC DEMAND KVA: 41.5
NEC DEMAND AMPS: 115.5

GENERAL NOTES:
* BRANCH CIRCUIT BREAKERS SHALL BE ARRANGED AS INDICATED ABOVE. PHASING DEVIATIONS WILL NOT BE ALLOWED.
* ALL CIRCUIT BREAKERS FEEDING REFRIGERATION EQUIPMENT SHALL BE "HCR" TYPE PER EQUIPMENT NAMEPLATE.
* INDIVIDUALLY MOUNTED MAIN CIRCUIT BREAKER, BACK-FED MAIN CIRCUIT BREAKER WILL NOT BE ACCEPTED.

N.E.C. DEMAND CALCULATIONS FOR PANEL - L1

1 CONNECTED LIGHTING LOAD	2710 VA	CONNECTED LIGHTING LOAD @ 125% =	3388 VA
2 CONNECTED RECEPTACLE LOAD	10500 VA	1st 10 KW OF RECEPTACLES @ 100% + BALANCE @	13200 VA
3 CONNECTED EQUIPMENT LOAD	22500 VA	EQUIPMENT LOAD DEMANDED @	22500 VA
4 CONNECTED KITCHEN EQUIPMENT LOAD	0 VA	PER NEC 220-20, 0 KITCHEN UNITS @	0 VA
5 CONNECTED HEATING LOAD	0 VA	LARGER OF HEATING OR COOLING LOAD @	0 VA
6 CONNECTED COOLING LOAD	0 VA	LARGER OF HEATING OR HEATING LOAD @	0 VA
7 CONNECTED HEAT PUMP LOAD	0 VA	HEAT PUMP COMPRESSOR & HEAT STRPS @	0 VA
8 CONNECTED ELEVATOR LOAD	0 VA	PER NEC 620-14, 0 ELEVATORS @	0 VA
9 CONNECTED MISC. MECHANICAL LOAD	0 VA	MISC. MECHANICAL LOAD @	0 VA
10 CONNECTED HOTEL GUEST ROOM LOAD	0 VA	HOTEL GUEST ROOM LOAD PER NEC 220-11	0 VA
11 CONNECTED NON-COINCIDENTAL LOAD	0 VA	NON-COINCIDENTAL LOAD (NON-ADDITIVE)	0 VA
12 LARGEST MOTOR	0 VA	VA OF LARGEST MOTOR @	25% = 0 VA
ADDITIONAL SPARE CAPACITY ADDED	0 VA	5% =	1979 VA
TOTAL CONNECTED:	42170 VA	TOTAL DEMAND:	41546 VA

Professional Design Associates, Inc. PANELBOARD: H2

PROJECT NAME: LORENZI PARK
PROJECT NUMBER: 25043
PANEL LOCATION: MSA
BUS MATERIAL: CU
GROUND BUS: YES
BRANCH BRKR: BOLT-ON
NEUTRAL RATNG: 100%
POLES REQUIRED: 48

VOLTS L-L: 480
VOLTS L-N: 277
PHASE: 3
WIRE: 4
MOUNTING: SURFACE
ENCLOSURE: NEMA 1
DATE: 06/22/07

M.O.: 250
M.C.B.: 250
AC RATING: 14 K
SERIES RATED: YES
BASIS OF DESIGN: S.G.D. - NP - 20" W. X 6.5" D.

LOAD SERVED	PHASE "A"	PHASE "B"	PHASE "C"	CIRCUIT BREAKER NUMBER	CIRCUIT BREAKER POLE	PHASE "A"	PHASE "B"	PHASE "C"	LOAD SERVED
1 POLE-A1 (NORTH)	2500			20	3	1	2	3	2500
1 POLE-A1 (SOUTH)		2500		20	3	1	2	3	2500
1 POLE-B1 (NORTH)	3500			20	3	7	8	9	3500
1 POLE-B1 (SOUTH)		3500		20	3	7	8	9	3500
1 POLE-A2	2500			20	3	13	14	15	2500
1 POLE-B2		2500		20	3	13	14	15	2500
1 POLE-C2	2500			20	3	25	26	27	2500
1 POLE-B2		2500		20	3	25	26	27	2500
1 POLE-C3	2500			20	3	31	32	33	2500
1 POLE-B3		2500		20	3	31	32	33	2500
8 SPACE				1	37	38			SPACE
8 SPACE				1	39	40			SPACE
8 SPACE				1	41	42			SPACE
0 SUB-FEED									0
0 SUB-TOTALS	17000	17000	17000						17000

CONNECTED VA - PHASE A: 34000
CONNECTED VA - PHASE B: 34000
CONNECTED VA - PHASE C: 34000
TOTAL CONNECTED VA: 102000

CONNECTED AMPS - PHASE A: 122.7
CONNECTED AMPS - PHASE B: 122.7
CONNECTED AMPS - PHASE C: 122.7
MAX. CONN. PHASE AMPS = "A" @ 122.7

CONNECTED KVA: 102.0
NEC DIVERSITY KVA: 102.0
NEC DEMAND KVA: 133.9
NEC DEMAND AMPS: 181.2

GENERAL NOTES:
* BRANCH CIRCUIT BREAKERS SHALL BE ARRANGED AS INDICATED ABOVE. PHASING DEVIATIONS WILL NOT BE ALLOWED.
* ALL CIRCUIT BREAKERS FEEDING REFRIGERATION EQUIPMENT SHALL BE "HCR" TYPE PER EQUIPMENT NAMEPLATE.

N.E.C. DEMAND CALCULATIONS FOR PANEL - H2

1 CONNECTED LIGHTING LOAD	102000 VA	CONNECTED LIGHTING LOAD @ 125% =	127500 VA
2 CONNECTED RECEPTACLE LOAD	0 VA	1st 10 KW OF RECEPTACLES @ 100% + BALANCE @	0 VA
3 CONNECTED EQUIPMENT LOAD	0 VA	EQUIPMENT LOAD DEMANDED @	0 VA
4 CONNECTED KITCHEN EQUIPMENT LOAD	0 VA	PER NEC 220-20, 0 KITCHEN UNITS @	0 VA
5 CONNECTED HEATING LOAD	0 VA	LARGER OF HEATING OR COOLING LOAD @	0 VA
6 CONNECTED COOLING LOAD	0 VA	LARGER OF HEATING OR HEATING LOAD @	0 VA
7 CONNECTED HEAT PUMP LOAD	0 VA	HEAT PUMP COMPRESSOR & HEAT STRPS @	0 VA
8 CONNECTED ELEVATOR LOAD	0 VA	PER NEC 620-14, 0 ELEVATORS @	0 VA
9 CONNECTED MISC. MECHANICAL LOAD	0 VA	MISC. MECHANICAL LOAD @	0 VA
10 CONNECTED HOTEL GUEST ROOM LOAD	0 VA	HOTEL GUEST ROOM LOAD PER NEC 220-11	0 VA
11 CONNECTED NON-COINCIDENTAL LOAD	0 VA	NON-COINCIDENTAL LOAD (NON-ADDITIVE)	0 VA
12 LARGEST MOTOR	0 VA	VA OF LARGEST MOTOR @	25% = 0 VA
ADDITIONAL SPARE CAPACITY ADDED	0 VA	5% =	6375 VA
TOTAL CONNECTED:	102000 VA	TOTAL DEMAND:	133875 VA

LORENZI PARK FIXTURE SCHEDULE