

PANEL TP
 SUPPLY: 208/120V, 3-PH, 4W
 MAINS: 200A MLO
 INTERRUPT RATING: 22K A.I.C.
 MOUNTING: SURFACE

TYPE: BRANCH CIRCUIT
 BUS MATERIAL: COPPER
 MANUFACTURER: SQ-D, CUTLER HAMMER, OR EQUAL

PHASE LOAD SUMMARY

NOTE	DESCRIPTION	TRIP	POLE	WIRE	CCT	PHASE A	PHASE B	PHASE C	CCT	WIRE	POLE	TRIP	DESCRIPTION	NOTE
. . .	LTG - TAX OFFICE	20	1	12	1	0.7	0.5		2	12	1	20	REC-TAX OFFICE	. . .
. . .	REC-TAX OFFICE	20	1	12	3		0.4	0.7	4	12	1	20	REC-TAX OFFICE	. . .
. . .	COPIER	20	1	12	5			1.0	6	12	1	20	REC-TAX OFFICE	. . .
. . .	CARD READER'S	20	1	12	7	0.4	0.7		8	12	1	20	REC-TAX OFFICE	. . .
. . .	CAMERA'S	20	1	12	9		1.0	0.4	10	12	1	20	REC-MOD. FURN.	. . .
. . .	REC-MOD. FURN.	20	1	12	11			0.4	12	12	1	20	REC-MOD. FURN.	. . .
. . .	REC-MOD. FURN.	20	1	12	13	0.4	0.4		14	12	1	20	REC-MOD. FURN.	. . .
. . .	UPS TOWER	50	2	6	15		2.0	0.8	16	12	1	20	TELEVISION	. . .
. . .	SPARE	20	1		17			2.0	18	12	1	20	TELEVISION	. . .
. . .	SPARE	20	1		19	0.0	0.0		20		1	20	SPARE	. . .
. . .	SPARE	20	1		21		0.0	0.0	22		1	20	SPARE	. . .
. . .	SPARE	20	1		23		0.0	0.0	24		1	20	SPARE	. . .
. . .	SPARE	20	1		25	0.0	0.0		26		1	20	SPARE	. . .
. . .	SPARE	20	1		27		0.0	0.0	28		1	20	SPARE	. . .
. . .	SPARE	20	1		29		0.0	0.0	30		1	20	SPARE	. . .
. . .	SPARE	20	1		31	0.0	0.0		32		1	20	SPARE	. . .
. . .	SPARE	20	1		33		0.0	0.0	34		1	20	SPARE	. . .
. . .	SPARE	20	1		35		0.0	0.0	36		1	20	SPARE	. . .
. . .	SPARE	20	1		37	0.0	0.0		38		1	20	SPARE	. . .
. . .	SPARE	20	1		39		0.0	0.0	40		1	20	SPARE	. . .
. . .	SPARE	20	1		41		0.0	0.0	42		1	20	SPARE	. . .

TOTAL KVA PER PHASE: 3.1, 5.2, 5.4
 DIVERSIFIED KVA PER PHASE: 3.2, 5.2, 5.4
 DIVERSIFIED TOTAL KVA: 13.9 KVA
 MAXIMUM AMPS HEAVIEST PHASE (DIVERSIFIED): 45.1 AMPS

NEC 220 LOAD JUSTIFICATION
 LIGHTING 125% 0.8
 HEATING 100% 0.0
 AIR HANDLERS 100% 0.0
 AIR CONDITIONING 100% 0.0
 RECEPTACLES 1st 10kVA = 100% +50% OF REMAINING 5.6
 WATER HEATER 100% 0.0
 KITCHEN EQUIPMENT MINUS NEC DEMAND 100% 0.0
 PROCESS 100% 0.0
 MISCELLANEOUS 100% 6.4

REQUIREMENTS
 1. WITH EQUIPMENT GROUND BUS
 2. PROVIDE A TYPED DIRECTORY.
 3. FULLY RATED PANEL
 4. SERVICE ENTRANCE LISTED

PANEL KEY NOTES
 A. PROVIDE A GFCI BREAKER.
 B. PROVIDE A SHUNT TRIP BREAKER.
 C. PROVIDE HANDLE LOCK ON-OFF DEVICE.

PANEL OP (LEFT SECTION)
 SUPPLY: 208/120V, 3-PH, 4W
 MAINS: 200A MLO
 INTERRUPT RATING: 22K A.I.C.
 MOUNTING: SURFACE

TYPE: BRANCH CIRCUIT
 BUS MATERIAL: COPPER
 MANUFACTURER: SQ-D, CUTLER HAMMER, OR EQUAL

TWO-SECTION PANELBOARD WITH 42 POLES PER SECTION. PROVIDE SUB-FEED LUGS AND LABELS FOR EACH SECOND SECTION.

PHASE LOAD SUMMARY

NOTE	DESCRIPTION	TRIP	POLE	WIRE	CCT	PHASE A	PHASE B	PHASE C	CCT	WIRE	POLE	TRIP	DESCRIPTION	NOTE
. . .	LTG. TRAVEL/INSURANCE	20	1	12	1	0.6	0.7		2	12	1	20	REC. WORK ROOM	. . .
. . .	LTG. ENTRY/CASHIER	20	1	12	3		0.3	0.2	4	12	1	20	REC. BREAK	. . .
. . .	LTG. TRAVEL/INSURANCE	20	1	12	5			0.8	6	12	1	20	REC. EWC	. . .
. . .	LTG. BREAK/RTR/WORK	20	1	12	7	0.6	0.7		8	12	1	20	REC. BREAK/JAN	. . .
. . .	LTG. LOUNGE/SRV.	20	1	12	9		0.3	0.9	10	12	1	20	REC. BREAK TV	. . .
. . .	LTG. TRACK	20	1	12	11			0.2	12	12	1	20	REC. DISPOSAL	. . .
. . .	LTG. TRACK	20	1	12	13	0.1	0.2		14	12	1	20	REC. DATA/ELEC	. . .
. . .	LTG. TRACK	20	1	12	15		0.2	0.4	16	12	1	20	REC. TELE	. . .
. . .	NITE-EMERG. LIGHTS	20	1	12	17			0.4	18	12	1	20	REC. CATV	. . .
. . .	REC. BREAK	20	1	12	19	0.2	0.2		20	12	1	20	REC. SRVC WRITERS	. . .
. . .	REC. DATA RACK	20	1	12	21		2.0	0.5	22	12	1	20	REC. SRVC WRITERS	. . .
. . .	SRVC WRITERS	20	1	12	23		0.5	0.5	24	12	1	20	REC. CORR/D, R.R.	. . .
. . .	SRVC WRITERS	20	1	12	25	0.5	0.2		26	12	1	20	REC. WORK ROOM	. . .
. . .	REC. BREAK	20	1	12	27		0.2	0.7	28	12	1	20	REC. OFFICE	. . .
. . .	REC. LOUNGE	20	1	12	29			0.2	30	12	1	20	REC. OFFICE	. . .
. . .	REC. LOUNGE	20	1	12	31	1.3	0.2		32	12	1	20	REC. TRAVEL/INSUR.	. . .
. . .	REC. LOUNGE	20	1	12	33		0.9	0.5	34	12	1	20	REC. SHOW WINDOW	. . .
. . .	REC. REFRESH	20	1	12	35			0.4	36	12	1	20	REC. SHOW WINDOW	. . .
. . .	REC. REMIT	20	1	12	37	0.2	1.5		38	12	1	20	HAND DRYER	. . .
. . .	REC. REMIT	20	1	12	39		0.8	1.5	40	12	1	20	HAND DRYER	. . .
. . .	REC. REMIT	20	1	12	41		0.2	0.4	42	12	1	20	REC. SHOW WINDOW	. . .

TOTAL KVA PER PHASE: 7.2, 9.4, 6.5
 DIVERSIFIED TOTAL KVA: 20.1 KVA
 MAXIMUM AMPS HEAVIEST PHASE (DIVERSIFIED): 100.9 AMPS

NEC 220 LOAD JUSTIFICATION
 SEE RIGHT SECTION FOR LOAD JUSTIFICATION.

REQUIREMENTS
 1. WITH EQUIPMENT GROUND BUS
 2. PROVIDE A TYPED DIRECTORY.
 3. FULLY RATED PANEL
 4. SERVICE ENTRANCE LISTED

PANEL KEY NOTES
 A. PROVIDE A GFCI BREAKER.
 B. PROVIDE A SHUNT TRIP BREAKER.
 C. PROVIDE HANDLE LOCK ON-OFF DEVICE.

PANEL OP (RIGHT SECTION)
 SUPPLY: 208/120V, 3-PH, 4W
 MAINS: 200A MLO
 INTERRUPT RATING: 22K A.I.C.
 MOUNTING: SURFACE

TYPE: BRANCH CIRCUIT
 BUS MATERIAL: COPPER
 MANUFACTURER: SQ-D, CUTLER HAMMER, OR EQUAL

TWO-SECTION PANELBOARD WITH 42 POLES PER SECTION. PROVIDE SUB-FEED LUGS AND LABELS FOR EACH SECOND SECTION.

PHASE LOAD SUMMARY

NOTE	DESCRIPTION	TRIP	POLE	WIRE	CCT	PHASE A	PHASE B	PHASE C	CCT	WIRE	POLE	TRIP	DESCRIPTION	NOTE
. . .	REC. INSURANCE/TRAVEL	20	1	12	43	0.5	0.4		44	12	1	20	REC. CASHIER/RECEP.	. . .
. . .	REC. INSURANCE/TRAVEL	20	1	12	45		0.5		46	12	1	20	REC. CASHIER/RECEP.	. . .
. . .	REC. INSURANCE/TRAVEL	20	1	12	47		0.5		48	12	1	20	REC. CASHIER/RECEP.	. . .
. . .	REC. INSURANCE/TRAVEL	20	1	12	49	0.5	1.5		50	12	1	20	SIGNAGE	. . .
. . .	REC. INSURANCE/TRAVEL	20	1	12	51		0.5	1.5	52	12	1	20	SIGNAGE	. . .
. . .	REC. INSURANCE/TRAVEL	20	1	12	53			0.0	54	12	1	20	SIGNAGE	. . .
. . .	REC. INSURANCE/TRAVEL	20	1	12	55	0.5	0.4		56	12	1	20	REC. SHOW WINDOW	. . .
. . .	REC. INSURANCE/TRAVEL	20	1	12	57		0.5	0.0	58	12	1	20	REC. SHOW WINDOW	. . .
. . .	REC. INSURANCE/TRAVEL	20	1	12	59			0.5	60	12	1	20	REC. REFRIGERATOR	. . .
. . .	REC. INSURANCE/TRAVEL	20	1	12	61	0.5	0.0		62	12	1	20	REC. ROOFTOP	. . .
. . .	REC. INSURANCE/TRAVEL	20	1	12	63		0.5	1.4	64	12	2	20	DAH/QU-1	. . .
. . .	REC. INSURANCE/TRAVEL	20	1	12	65			0.5	66		1	20	REC. COPIER	. . .
. . .	REC. INSURANCE/TRAVEL	20	1	12	67	0.5	1.0		68	12	1	20	REC. COPIER	. . .
. . .	REC. INSURANCE/TRAVEL	20	1	12	69		0.0	1.0	70	12	1	20	REC. COPIER	. . .
. . .	REC. INSURANCE/TRAVEL	20	1	12	71			0.0	72	12	1	20	REC. CASHIER/RECEP.	. . .
. . .	REC. INSURANCE/TRAVEL	20	1	12	73	0.0	0.2		74	12	1	20	REC. CASHIER/RECEP.	. . .
. . .	REC. INSURANCE/TRAVEL	20	1	12	75		0.0	0.0	76		1	20	SPARE	. . .
. . .	REC. INSURANCE/TRAVEL	20	1	12	77		0.0	0.0	78		1	20	SPARE	. . .
. . .	REC. INSURANCE/TRAVEL	20	1	12	79	0.0	0.0		80	10	3	20	TVSS	. . .
. . .	REC. INSURANCE/TRAVEL	20	1	12	81		0.0	0.0	82		1	20	SPARE	. . .
. . .	REC. INSURANCE/TRAVEL	20	1	12	83		0.0	0.0	84		1	20	SPARE	. . .

TOTAL KVA PER PHASE: 13.7, 16.1, 13.4
 DIVERSIFIED KVA PER PHASE: 11.1, 12.1, 10.4
 DIVERSIFIED TOTAL KVA: 33.6 KVA
 MAXIMUM AMPS HEAVIEST PHASE (DIVERSIFIED): 100.9 AMPS

NEC 220 LOAD JUSTIFICATION
 LIGHTING 125% 4.5
 HEATING 100% 0.0
 AIR HANDLERS 100% 0.0
 AIR CONDITIONING 100% 0.0
 RECEPTACLES 1st 10kVA = 100% +50% OF REMAINING 20.5
 WATER HEATER 100% 0.0
 KITCHEN EQUIPMENT MINUS NEC DEMAND 100% 0.0
 PROCESS 100% 0.0
 MISCELLANEOUS 100% 8.6

REQUIREMENTS
 1. WITH EQUIPMENT GROUND BUS
 2. PROVIDE A TYPED DIRECTORY.
 3. FULLY RATED PANEL
 4. SERVICE ENTRANCE LISTED

PANEL KEY NOTES
 A. PROVIDE A GFCI BREAKER.
 B. PROVIDE A SHUNT TRIP BREAKER.
 C. PROVIDE HANDLE LOCK ON-OFF DEVICE.

PANEL SP (LEFT SECTION)
 SUPPLY: 208/120V, 3-PH, 4W
 MAINS: 400A MLO
 INTERRUPT RATING: 22K A.I.C.
 MOUNTING: SURFACE

TYPE: BRANCH CIRCUIT
 BUS MATERIAL: COPPER
 MANUFACTURER: SQ-D, CUTLER HAMMER, OR EQUAL

TWO-SECTION PANELBOARD WITH 42 POLES PER SECTION. PROVIDE SUB-FEED LUGS AND LABELS FOR EACH SECOND SECTION.

PHASE LOAD SUMMARY

NOTE	DESCRIPTION	TRIP	POLE	WIRE	CCT	PHASE A	PHASE B	PHASE C	CCT	WIRE	POLE	TRIP	DESCRIPTION	NOTE	
. . .	LTG-EMERGENCY	20	1	12	1	0.8	1.0		2	12	1	20	REC-TORQUE WRENCH	. . .	
. . .	LTG-CAR CARE	20	1	12	3		0.4	1.5	4	12	1	20	HAND DRYER	. . .	
. . .	LTG-CAR CARE	20	1	12	5			1.2	6	12	1	20	SHOP VAC	. . .	
. . .	LTG-CAR CARE	20	1	12	7	0.5	1.3		8	12	1	20	REC-CAR CARE	. . .	
. . .	LTG-CAR CARE	20	1	12	9		1.0	1.1	10	12	1	20	REC-CAR CARE	. . .	
. . .	LTG-CAR CARE	20	1	12	11			1.5	12	12	1	20	REC-INSPECTION	. . .	
. . .	LTG-EXTENSION	20	1	12	13	0.7	0.7		14	12	1	20	REC-CAR CARE	. . .	
. . .	LTG-7	20	1	12	15		0.2	1.5	16	12	1	20	REC-SMART WASHER	. . .	
. . .	LTG-8	20	1	12	17			0.9	1.0	18	12	1	20	STRUT COMP.	. . .
. . .	LTG-9	20	1	12	19	0.9	0.2		20	12	1	20	TIME CLOCK	. . .	
. . .	LTG-10	20	1	12	21		0.9	0.7	22	12	1	20	REC-OIL STORAGE	. . .	
. . .	REC-TOOL BOX	20	1	12	23			0.7	0.2	24	12	1	20	REC-CAR CARE	. . .
. . .	REC-TOOL	20	1	12	25	0.5	1.0		26	10	2	25	LIFT	. . .	
. . .	REC-TOOL BOX	20	1	12	27		0.5	1.0	28		1	20	LIFT	. . .	
. . .	REC-INSPECTION	20	1	12	29			1.5	1.8	30	12	1	20	REC-ALIGNMENT MACH.	. . .
. . .	BATTERY RACK	20	1	12	31	1.5	0.5		32	12	1	20	REC-CAR CARE	. . .	
. . .	SPARE	20	1		33		0.0	0.7	34	12	1	20	REC-LIFT	. . .	
. . .	WELDING EQUIPMENT	30	1	10	35			2.9	0.7	36	12	1	20	REC-LIFT	. . .
. . .	REC-ROOFTOP	20	1	12	37	0.5	0.7		38	12	1	20	REC-LIFT	. . .	
. . .	BRAKE LATHE	20	2	12	39		1.0	0.7	40	12	1	20	REC-LIFT	. . .	
. . .	SPARE	20	1		41			1.0	0.7	42	12	1	20	REC-LIFT	. . .

TOTAL KVA PER PHASE: 11.3, 12.3, 16.7
 DIVERSIFIED TOTAL KVA: 30.3 KVA
 MAXIMUM AMPS HEAVIEST PHASE (DIVERSIFIED): 237.0 AMPS

NEC 220 LOAD JUSTIFICATION
 SEE RIGHT SECTION FOR LOAD JUSTIFICATION.

REQUIREMENTS
 1. WITH EQUIPMENT GROUND BUS
 2. PROVIDE A TYPED DIRECTORY.
 3. FULLY RATED PANEL
 4. SERVICE ENTRANCE LISTED

PANEL KEY NOTES
 A. PROVIDE A GFCI BREAKER.
 B. PROVIDE A SHUNT TRIP BREAKER.
 C. PROVIDE HANDLE LOCK ON-OFF DEVICE.

PANEL SP (RIGHT SECTION)
 SUPPLY: 208/120V, 3-PH, 4W
 MAINS: 400A MLO
 INTERRUPT RATING: 22K A.I.C.
 MOUNTING: SURFACE

TYPE: BRANCH CIRCUIT
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 MANUFACTURER: SQ-D, CUTLER HAMMER, OR EQUAL

TWO-SECTION PANELBOARD WITH 42 POLES PER SECTION. PROVIDE SUB-FEED LUGS AND LABELS FOR EACH SECOND SECTION.

PHASE LOAD SUMMARY

NOTE	DESCRIPTION	TRIP	POLE	WIRE	CCT	PHASE A	PHASE B	PHASE C	CCT	WIRE	POLE	TRIP	DESCRIPTION	NOTE
. . .	ALIGNMENT LIFT	40	2	8	43	2.0	0.4		44	12	1	20	OVERHEAD DOOR	. . .
. . .	L													