

### 'MDP' PANEL SCHEDULE (EXISTING)

PANEL ID: MDP		PANEL TYPE: SQ. D-1 LINE		MOUNTING: SURFACE				
ELECT. DATA: 208-120V, 3 PHASE, 4 WIRE, 1,000 AMPS, 50K AIC		MAINS: 1,000/3 BREAKER /W SHUNT TRIP		LOCATION: STOCK ROOM				
CIR. NO.	POLE	AMP TRIP C.B.	WIRE (AWG)	COND. (IN.)	LOAD			IDENTIFICATION
					'A' AMP	'B' AMP	'C' AMP	
1	3	100			87			A/C COND. UNIT #9
3	3	100			87			3#1, #86, 1-1/2" C
5	3	100			87			
7	3	80			79			A/C AIR HANDLER #1
9	3	80			79			3#1, #86, 1-1/2" C
11	3	80			79			
13								
15								
17								
19	3	300			122			PANEL - A
21	3	300			117			PANEL - A
23	3	300			110			PANEL - A
25	3	200			117			PANEL - C
27	3	200			115			PANEL - C
29	3	200			104			PANEL - C
31								
33								
35	2	40			30			TANKLESS WATER HTR. STORAGE ROOM
37	2	40			30			2#8, #106, 3/4" C
39	2	40			30			TANKLESS WATER HTR. STORAGE ROOM
41	2	40			30			2#8, #106, 3/4" C
					435	428	440	SUBTOTAL AMPS

A	B	C	TOTAL AMPS
853	848	843	
102	102	101	TOTAL KVA

### c-2 'A' PANEL SCHEDULE (EXISTING) \* LOCK-ON BREAKER REQUIRED AT ALL EXITS, EMERGENCY EXITS AND NIGHT LIGHT CIRCUITS.

PANEL ID: 'A' LIGHTING		PANEL TYPE: SQ. D-NOOD		MOUNTING: SURFACE				
ELECT. DATA: 208-120V, 3 PHASE, 4 WIRE, 400 AMPS, 50K AIC SERIES RATED		MAINS: MLO		LOCATION: STOCK ROOM				
CIR. NO.	POLE	AMP TRIP C.B.	WIRE (AWG)	COND. (IN.)	LOAD			IDENTIFICATION
					'A' AMP	'B' AMP	'C' AMP	
1	1	20	#12	1/2"	11			LIGHTS (SALES)
3	1	20	#12	1/2"	10			LIGHTS (SALES)
5	1	20	#12	1/2"	11			LIGHTS (SALES)
7	1	20	#12	1/2"	10			LIGHTS (SALES)
9	1	20	#12	1/2"	11			LIGHTS (SALES)
11	1	20	#12	1/2"	11			LIGHTS (SALES)
13	1	20	#12	1/2"	11			LIGHTS (SALES)
15	1	20	#12	1/2"	8			LIGHTS (SALES)
17	1	20	#12	1/2"	6			LIGHTS (SALES)
19	1	20	#12	1/2"	5			LIGHTS (SALES)
21	1	20	#12	1/2"	2			LIGHTS (CHILLER)
23	1	20	#12	1/2"	2			LIGHTS (HUMIDOR)
25	1	20	#12	1/2"	10			LIGHTS (WINE VAULT)
27	1	20	#12	1/2"	2			VAULT LIGHTS (COACH/DISPLAY)
29	1	20	#12	1/2"	12			LIGHTS (STORAGE)
31	1	20	#12	1/2"	12			LIGHTS (STORAGE)
33	1	20	#12	1/2"	12			LIGHTS (STORAGE)
35	1	20	#12	1/2"	9			LIGHTS (ELECT.)
37	1	20	#12	1/2"	4			RESTROOM LIGHTS
39	1	20	#12	1/2"	13			WBC LTS DOOR
41	1	20	#12	1/2"	10			WBC LTS DOOR
					63	58	61	SUBTOTAL (AMPS)

A	B	C	TOTAL AMPS
122	117	110	
15	14	13	TOTAL KVA

NOTE: RUN #12 MINIMUM WIRE SIZE. INCREASE TO #10 WHEN HOMERUN IS LONGER THAN 50 FEET AND #8 WHEN HOMERUN IS LONGER THAN 100 FEET. PROVIDE #12 MINIMUM SIZE EQUIPMENT GROUNDING CONDUCTOR IN EACH RACEWAY. INCREASE TO #10 E. G. C. WHEN RUN WITH #10 PHASE CONDUCTORS.

Average times volts equals KVA  
237 x 220 x 27240 / 1000 = 27.8 KVA

### 'B' PANEL SCHEDULE (EXISTING) \* LOCK-ON BREAKER REQUIRED

PANEL ID: 'B' - POWER		PANEL TYPE: SQ. D-NOOD		MOUNTING: SURFACE				
ELECT. DATA: 208-120V, 3 PHASE, 4 WIRE, 200 AMPS, 50K AIC SERIES RATED		MAINS: MLO		LOCATION: STOCK ROOM				
CIR. NO.	POLE	AMP TRIP C.B.	WIRE (AWG)	COND. (IN.)	LOAD			IDENTIFICATION
					'A' AMP	'B' AMP	'C' AMP	
1	1	20	#12	1/2"	8			P.O.S. REGISTER
3	1	20	#12	1/2"	18			GEN. P.O.S. RECEPT.
5	1	20	#12	1/2"	3			TIDEL SAFE
7	1	20	#12	1/2"	12			ICE MERCH.
9	1	20	#12	1/2"	6			FRONT DOOR GFI
11	1	20	#12	1/2"	12			FRONT DOOR
13	1	30	#10	1/2"	25			HAND DRYERS
15	1	20	#12	1/2"	5			FOUNTAIN GFI
17	1	20	#12	1/2"	9			HUMIDOR NEON
19	1	20	#12	1/2"	6			CHILLER NEON
21	1	20	#12	1/2"	9			OUTSIDE GFI (N.W.)
23	1	20	#12	1/2"	6			OUTSIDE GFI (N.E.)
25	1	20	#12	1/2"	9			HUMIDOR/CHILLER RECEPT.
27	2	20	#12	1/2"	10			HUMIDIFIER
29	2	20	#12	1/2"	10			HUMIDIFIER
31	1	20	#12	1/2"	9			NEON- WBC (HOT)
33	1	20	#12	1/2"	12			3 DOOR COOLER
35	1	30	#10	1/2"	20			ELECT. WATER HEATER LADIES RESTROOM
37	1	30	#10	1/2"	20			ELECT. WATER HEATER MENS RESTROOM
39	2	20	#12	1/2"	12			ICE CUBER
41	2	20	#12	1/2"	12			ICE CUBER
					89	72	72	SUBTOTAL (AMPS)

A	B	C	TOTAL AMPS
156	145	137	
19	17	16	TOTAL KVA

NOTE: RUN #12 MINIMUM WIRE SIZE. INCREASE TO #10 WHEN HOMERUN IS LONGER THAN 50 FEET AND #8 WHEN HOMERUN IS LONGER THAN 100 FEET. PROVIDE #12 MINIMUM SIZE EQUIPMENT GROUNDING CONDUCTOR IN EACH RACEWAY. INCREASE TO #10 E. G. C. WHEN RUN WITH #10 PHASE CONDUCTORS.

### 'C' PANEL SCHEDULE (EXISTING)

PANEL ID: 'C' EQUIPMENT		PANEL TYPE: SQ. D-NOOD		MOUNTING: SURFACE				
ELECT. DATA: 208-120V, 3 PHASE, 4 WIRE, 150 AMPS, 50K AIC SERIES RATED		MAINS: MLO		LOCATION: STOCK ROOM				
CIR. NO.	POLE	AMP TRIP C.B.	WIRE (AWG)	COND. (IN.)	LOAD			IDENTIFICATION
					'A' AMP	'B' AMP	'C' AMP	
1	1	15	#12	1/2"	8			EVAP. - 1 (WBC)
3	1	15	#12	1/2"	8			EVAP. - 3 (WBC)
5	1	15	#12	1/2"	8			EVAP. - 5 (WINE VLT)
7	3	30	#10	1/2"	18			COND. - 1 (WBC)
9	3	30	#10	1/2"	18			COND. - 1 (WBC)
11	3	30	#10	1/2"	18			COND. - 1 (WBC)
13	3	30	#10	1/2"	18			COND. - 3 (WBC)
15	3	30	#10	1/2"	18			COND. - 3 (WBC)
17	3	30	#10	1/2"	18			COND. - 3 (WBC)
19	3	30	#10	1/2"	13			COND. - 5 (WINE VLT)
21	3	30	#10	1/2"	13			COND. - 5 (WINE VLT)
23	3	30	#10	1/2"	13			COND. - 5 (WINE VLT)
25	2	30	#10	1/2"	11			COND. - 7 (HUMIDOR)
27	2	30	#10	1/2"	11			COND. - 7 (HUMIDOR)
29								
					68	68	57	SUBTOTAL (AMPS)

A	B	C	TOTAL AMPS
117	115	104	
14	14	13	TOTAL KVA

NOTE: RUN #12 MINIMUM WIRE SIZE. INCREASE TO #10 WHEN HOMERUN IS LONGER THAN 50 FEET AND #8 WHEN HOMERUN IS LONGER THAN 100 FEET. PROVIDE #12 MINIMUM SIZE EQUIPMENT GROUNDING CONDUCTOR IN EACH RACEWAY. INCREASE TO #10 E. G. C. WHEN RUN WITH #10 PHASE CONDUCTORS.

### 'D' PANEL SCHEDULE (EXISTING)

PANEL ID: 'D' OUTSIDE LIGHTING		PANEL TYPE: SQ. D-NOOD		MOUNTING: SURFACE				
ELECT. DATA: 208-120V, 3 PHASE, 4 WIRE, 125 AMPS, 50K AIC SERIES RATED		MAINS: MLO		LOCATION: STOCK ROOM				
CIR. NO.	POLE	AMP TRIP C.B.	WIRE (AWG)	COND. (IN.)	LOAD			IDENTIFICATION
					'A' AMP	'B' AMP	'C' AMP	
1	2	20	#10	1/2"	9			FRONT WALL SIGN
3	2	20	#10	1/2"	9			FRONT WALL SIGN
5								
7								
9	1	20	#10	1/2"	14			LSI LIGHTING (S.W.)
11	1	20	#10	1/2"	16			LSI LIGHTING (S.E.)
13	1	20	#10	1/2"	13			LSI LIGHTING (E.)
15	1	20	#10	1/2"	14			LSI LIGHTING (E.)
17	1	20	#10	1/2"	14			LSI LIGHTING (N.)
19								
21								
23								
25	1	20	#10	1/2"	6			WALL/SOFFIT (S.W.)
27	1	20	#10	1/2"	4			WALL PACK (W.)
29	1	20	#10	1/2"	6			WALL/SOFFIT (N.W.)
31								
33	1	20	#12	1"	9			SOFFIT LIGHTS (N.W.)
35	1	20	#12	1"	8			SOFFIT LIGHTS (N.E.)
37	1	20	#12	1"	8			SOFFIT LIGHTS (E.)
39	1	20	#12	1"	8			SOFFIT LIGHTS (S.E.)
41	1	20	#12	1"	8			SOFFIT LIGHTS (S.)
					36	49	52	SUBTOTAL (AMPS)

A	B	C	TOTAL AMPS
96	109	100	
12	13	12	TOTAL KVA

NOTE: RUN #12 MINIMUM WIRE SIZE. INCREASE TO #10 WHEN HOMERUN IS LONGER THAN 50 FEET AND #8 WHEN HOMERUN IS LONGER THAN 100 FEET. PROVIDE #12 MINIMUM SIZE EQUIPMENT GROUNDING CONDUCTOR IN EACH RACEWAY. INCREASE TO #10 E. G. C. WHEN RUN WITH #10 PHASE CONDUCTORS.

### 'MDP-TS' PANEL SCHEDULE (EXISTING) CIRCUITS BEING ADDED FOR TENANT BUILD-OUT ONLY

PANEL ID: MDP		PANEL TYPE: SQ. D-1 LINE		MOUNTING: SURFACE				
ELECT. DATA: 208-120V, 3 PHASE, 4 WIRE, 400 AMPS, 50K AIC		MAINS: 400/3 BREAKER /W SHUNT TRIP		LOCATION: STOCK ROOM				
CIR. NO.	POLE	AMP TRIP C.B.	WIRE (AWG)	COND. (IN.)	LOAD			IDENTIFICATION
					'A' AMP	'B' AMP	'C' AMP	
1	3	70	#1	1/2"	64			A/C - 1
3	3	70	#1	1/2"	64			A/C - 1
5	3	70	#1	1/2"	64			A/C - 1
7	1	30	#10	1/2"	20			WH - 1
9	1	20	#12	1/2"	5			FOUNTAIN - GFI
11	2	20	#12	1/2"	12			TTB - QUAD RECEPT.
13	2	20	#12	1/2"	12			TTB - QUAD RECEPT.
15	1	20	#12	1/2"	16			GEN. RECEPT.
17								
19								
21								
23								
25	1	20	#12	1/2"	8			LIGHTS - SALES
27	1	20	#12	1/2"	7			LIGHTS - SALES
29	1	20	#12	1/2"	13			LIGHTS - SALES
31	1	20	#12	1/2"	12			LIGHTS - TOILET RM.
33								
35								
37	1	20	#12	1/2"	10			TENANT LIGHTS
39	1	20	#12	1/2"	12			NIGHT/EMERG. LIGHTS
41	1	20	#12	1/2"	12			FRONT DOOR
					126	104	101	SUBTOTAL AMPS

A	B	C	TOTAL AMPS
232	203	199	
27.8	24.3	23.8	TOTAL KVA

WORK TO INCLUDE THIS PANEL ONLY

#### POWER RISER DIAGRAM NOTE'S:

ALL CONDUCTORS SHALL BE COPPER W/ THWN INSULATION MIN. SIZE #12.

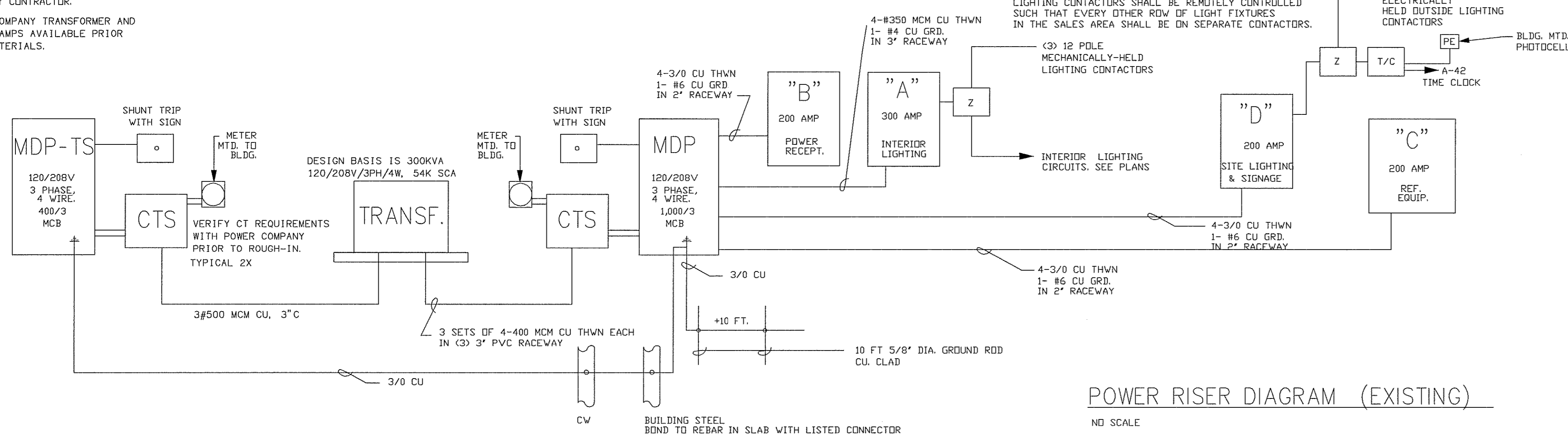
CONTRACTOR SHALL SUPPLY TEMPORARY POWER TO JOB SITE FOR GENERAL AND ALL SUBCONTRACTORS.

OWNER SHALL PROVIDE ALL PANELS, TIMER, AND CONTRACTORS FOR POWER DISCONNECT AND SHALL BE INSTALLED BY CONTRACTOR.

VERIFY POWER COMPANY TRANSFORMER AND SHORT CIRCUIT AMPS AVAILABLE PRIOR TO ORDERING MATERIALS.

SECURE LAMINATED PLASTIC SIGNS ON EXTERIOR WALL AT SERVICE ENTRANCE AT 5'-0" ABOVE FIN GR. TO READ: BLDG. MAIN DISCONNECT

SIGNS TO HAVE RED BACKGROUND WITH WHITE ENGRAVED LETTERING 3 INCHES HIGH AND 3/32 INCH STROKE.



POWER RISER DIAGRAM (EXISTING)

#### MDP LOAD SUMMARY