EQUIPMENT	EQUIPMENT NAME	VOLT/					CONDUIT - WIRE	STARTER	DISCONNECT	PANEL	CIRCUIT	DISC. SWITCH	FUSE	NOTE
TAG		PHASE	MCA	МОСР	HP	KW					NUMBER		SIZE	
ACCU-1	CONDENSING UNIT	208/3	14.0	20			3/4"C-3#12, 1#12 GND.	DIVISION 15	DIVISION 16	MDP	1,3,5	30A/3P	NA	1
ACCU-2	CONDENSING UNIT	208/3	18.0	30			3/4"C-3#10, 1#10 GND.	DIVISION 15	DIVISION 16	MDP	7,9,11	30A/3P	NA	1
ACCU-3	CONDENSING UNIT	208/3	44.6	50			3/4"C-3#8, 1#10 GND.	DIVISION 15	DIVISION 16	MDP	13,15,17	60A/3P	NA	1
ACCU-4	CONDENSING UNIT	208/3	44.6	50			3/4"C-3#8, 1#10 GND.	DIVISION 15	DIVISION 16	MDP	19,21,23	60A/3P	NA	1
FCU-1	FAN COIL UNIT	208/1			1/2		3/4"C-2#12, 1#12 GND.	DIVISION 15	DIVISION 16	MDP	8,10	30A/2P	NA	2
FCU-2	FAN COIL UNIT	208/1			1		3/4"C-2#12, 1#12 GND.	DIVISION 15	DIVISION 16	MDP	12,14	30A/2P	NA	2
FCU-3	FAN COIL UNIT	208/3			3		3/4"C-3#12, 1#12 GND.	DIVISION 15	DIVISION 16	MDP	16,18,20	30A/3P	NA	2
FCU-4	FAN COIL UNIT	208/3			3		3/4"C-3#12, 1#12 GND.	DIVISION 15	DIVISION 16	MDP	22,24,26	30A/3P	NA	2
HRU-1	HEAT RECOVERY UNIT	208/3	11.9	15			3/4"C-3#12, 1#12 GND.	DIVISION 15	DIVISION 16	MDP	28,30,32	30A/3P	NA	2
EF-1	RESTROOM EXHAUST FAN	120/1				79W	3/4"C-2#12, 1#12 GND.	_	_	LA	3	_	NA	3
EF-2	RESTROOM EXHAUST FAN	120/1				79W	3/4"C-2#12, 1#12 GND.	_	_	LA	3	_	NA	3
EF-3	V.M. ROOM EXHAUST FAN	120/1				370W	3/4"C-2#12, 1#12 GND.	_	_	MDP	34	_	NA	4
EF-4	OFFICE EXHAUST FAN	120/1				130W	3/4"C-2#12, 1#12 GND.	_	_	MDP	34	_	NA	5
EWH-1	WATER HEATER	208/3				3.0	3/4"C-3#12, 1#12 GND.	_	DIVISION 16	MDP	25,27,29	30A/3P	NA	

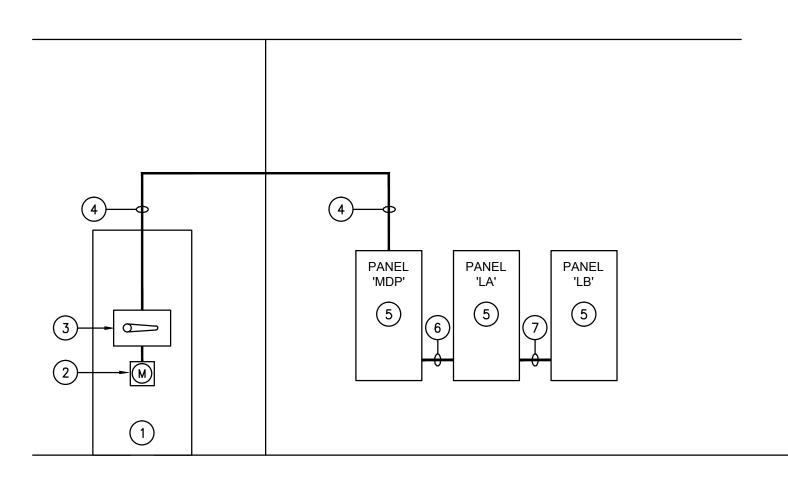
NOTES:

1. PROVIDE WEATHER PROOF, GFI RECEPTACLE ADJACENT TO ROOF MOUNTED HVAC EQUIPMENT.

2. PROVIDE PORCELAIN SOCKET WITH 60W/A19 LAMP, SWITCH AND GFI DUPLEX RECEPTACLE ADJACENT TO HVAC UNIT.

3. INTERLOCK EXHAUST FAN WITH LOCAL LIGHTING CONTROL. 4. FAN SHALL BE CONTROLLED BY A WALL MOUNTED SOLID STATE SPEED CONTROL SWITCH FURNISHED BY THE MECHANICAL CONTRACTOR AND WIRED BY THE ELECTRICAL

5. FAN SHALL BE CONTROLLED BY A PERMANENTLY ENGRAVED WALL SWITCH. SWITCH PROVIDED BY ELECTRICAL CONTRACTOR, ENGRAVED PLATE BY MECHANICAL CONTRACTOR. INSTALL HIGH OR ON FAN OUT OF EMPLOYEE REACH.



**POWER RISER DIAGRAM** 

## RISER DIAGRAM NOTES

- (1) EXISTING 120/208V, 3Ø, 4W ELECTRICAL DISTRIBUTION.
- 2 LANDLORD TO PROVIDE METERING EQUIPMENT. COORDINATE EXACT REQUIREMENTS PRIOR TO BID.
- 3 LANDLORD TO PROVIDE A 600A, 3P, 4W, DISCONNECT SWITCH WITH (3)600A FUSES.
- 4 LANDLORD TO PROVIDE (2)3" CONDUITS EACH WITH 4#350 KCMIL AND 1#1/0 GROUND FROM ELECTRICAL ROOM SWITCHBOARD TO PANEL HA.
- 5 TENANT'S E.C. TO PROVIDE NEW ELECTRICAL PANELS 'MDP', 'LA', AND 'LB'. REFER TO PANEL SCHEDULES THIS SHEET.
- 6 TENANT'S E.C. TO PROVIDE 2"C.-4#3/0 AND 1#6 GROUND.
- 7 TENANT'S E.C. TO PROVIDE 1-1/4"C.-4#3 AND 1#8 GROUND.

TENANT TOTAL LOAD SUMMARY										
	CONNECTED	DESIGN	DESIGN DEMAN							
	KVA	FACTOR	KVA							
LIGHTING	18.9	1.25	23.6							
RECEPTACLES	18.2	1.0	14.1							
SIGN	0.0	1.25	0							
WATER HEATER	3.0	1.0	3.0							
HVAC (LARGEST)	12.9	1.25	16.1							
HVAC (REMAINING)	36.5	1.0	36.5							
HVAC (NON-COINCIDENTAL)	0.0	1.0	0.0							
MISCELLANEOUS	11.3	1.0	11.3							
TOTAL KVA:	100.8		104.7							
TOTAL AMPS:	280.0		290.7							

Location: Stockroom	1											120/200 Valt 2a 4w	
	_									120/208 Volt, 3ø, 4w			
Mounting: Surface	10.74		110	NOTE!		_	_	luo=			10.74	Main: MCB 600A	
Circuit Description	KVA	СВ	NO.	NOTE	Α	В	С	NOTE	NO.	СВ	KVA	Circuit Description	
	1.3		1		X				2		19.4		
ACCU-1	1.3	20/3	3	В		X	200	] ]	4	200/3		PANEL LA	
	1.3		5				X		6		16.8		
	1.7		7		X				8	20/2	0.6	FCU-1	
ACCU-2	1.7	30/3	9	В		X			10		0.6		
	1.7		11				X	] ]	12	20/2	0.9	FCU-2	
	4.3		13		X				14	20,2	0.9	. 55 2	
ACCU-3	4.3	50/3	15	В		X			16		1.3		
	4.3		17				X	] ]	18	20/3	1.3	FCU-3	
	4.3		19		X				20		1.3		
ACCU-4	4.3	50/3	21	В		X			22		1.3		
	4.3		23				X		24	20/3	1.3	FCU-4	
	1.0		25		X				26		1.3		
EWH-1	1.0	20/3	27			X			28		1.1		
	1.0		29	<b>]</b> [			X	] [	30	15/3	1.1	HRU-1	
SPACE			31		X			] [	32		1.1		
SPACE			33			X			34	20/1	0.5	EF-3 AND EF-4	
SPACE			35				X		36			SPACE	
SPACE			37		X				38			SPACE	
SPACE			39			X			40			SPACE	
SPACE			41				Χ		42			SPACE	
CONNECTED 1/1/A	400.0				A	В	C					DECION DEMAND KVA	404
CONNECTED KVA: CONNECTED HIGH PHASE AMPS:	100.8 310.0			Į.	37.2	29.6	34.0	<u>l</u>				DESIGN DEMAND KVA: DESIGN DEMAND AMPS:	104.7 290.7

PANEL NOTES: A - PROVIDE CIRCUIT BREAKER WITH LOCK-ON DEVICE. B - PROVIDE HACR CIRCUIT BREAKER BALANCE PHASE LOADS TO WITHIN 10% OF EACH OTHER.

PANEL LA - LOAD SUMMARY											
	CONNECTED	DESIGN	DESIGN DEMAND								
	KVA	FACTOR	KVA								
GHTING	18.9	1.25	23.6								
ECEPTACLES	18.2	1.0	14.2								
GN	0.0	1.25	0.0								
ATER HEATER	0.0	1.0	0.0								
VAC (LARGEST)	0.0	1.25	0.0								
VAC (REMAINING)	0.0	1.0	0.0								
VAC (NON-COINCIDENTAL)	0.0	1.0	0.0								
ISCELLANEOUS	11.3	1.0	11.3								
OTAL KVA:	48.4		49.1								
OTAL AMPS:	134.4		136.5								

					PA	NEL	LA					
Location: Stockroom	208/120 Volt, 3ø, 4w											
Mounting: Surface	1	A.I.C. RATING: 10,000A										Main: LUGS 225A
Circuit Description	KVA	CB	NO.	NOTE	Α	В	С	NOTE	NO.	СВ	KVA	Circuit Description
STOCK / VISUAL ROOM LIGHTING	1.4	20/1	1		X				2	20/1	1.6	SHOW WINDOW TRACK LIGHTING
TOILET LTG. & FANS	0.4	20/1	3			X			4	20/1	0.8	SHOW WINDOW RECEPTACLES
CORRIDOR/LOUNGE/OFFICE LIGHTING	0.8	20/1	5				X		6	20/1	0.8	SHOW WINDOW RECEPTACLES
SALES PENDANT LIGHTING	1.4	20/1	7		X				8	20/1	0.4	SHOW WINDOW RECEPTACLES
SALES CHANDELIERS	0.3	20/1	9			X			10	20/1		SPARE
FITTING AREA GENERAL & COVE LTG.	1.4	20/1	11				X		12	20/1	0.8	SALES AREA CEILING RECEPTACLES
FITTING ROOM DOWN LIGHTING	0.8	20/1	13		X				14	20/1	0.6	CASH WRAP CEILING RECEPTACLES
FITTING ROOM MIRROR LIGHTING	0.4	20/1	15			X			16	20/1	0.8	SALES AREA CEILING RECEPTACLES
TRACK LIGHTING	1.2	20/1	17				X		18	20/1		SPARE
TRACK LIGHTING	1.8	20/1	19		X				20	20/1		SPARE
TRACK LIGHTING	1.2	20/1	21			X			22	20/1		SPARE
TRACK LIGHTING	1.6	20/1	23				X		24	30/1		SPARE
TRACK LIGHTING	1.8	20/1	25		X				26	20/1		SPARE
TRACK LIGHTING	1.2	20/1	27			Х			28	20/1		SPARE
TRACK LIGHTING	1.2	20/1	29				X		30	20/1		SPARE
SPARE		20/1	31		Χ				32	20/1		SPARE
SPARE		20/1	33			X			34	20/1		SPARE
SPARE		20/1	35				X		36	20/1		SPARE
SPARE		20/1	37		X				38		9.6	
LIGHTING CONTROL PANEL	0.2	20/1	39			X			40	100/3	6.9	PANEL LB
EMERGENCY / EXIT LIGHTING	0.2	20/1	41	Α			X		42		8.8	
	•				Α	В	С					
CONNECTED KVA:	48.4				19.4	12.2	16.8					DESIGN DEMAND KVA: 49.1
CONNECTED HIGH PHASE AMPS:	161.7			•		•	•					DESIGN DEMAND AMPS: 136.5

PANEL NOTES: A - PROVIDE CIRCUIT BREAKER WITH LOCK-ON DEVICE. BALANCE PHASE LOADS TO WITHIN 10% OF EACH OTHER.

PANI	EL LB - LOAD S	SUMMARY	
	CONNECTED	DESIGN	DESIGN DEMAN
	KVA	FACTOR	KVA
LIGHTING	0.0	1.25	0.0
RECEPTACLES	14.0	1.0	12.6
SIGN	0.0	1.25	0
WATER HEATER	0.0	1.0	0.0
HVAC (LARGEST)	0.0	1.25	0.0
HVAC (REMAINING)	0.0	1.0	0.0
HVAC (NON-COINCIDENTAL)	0.0	1.0	0.0
MISCELLANEOUS	11.3	1.0	11.3
TOTAL KVA:	25.3		23.9
TOTAL AMPS:	70.3		66.4

					PA	NEL	LB					
$\Delta$ 1 C. $R\Delta$ 1 N/G: 10 1000 $\Delta$												208/120 Volt, 3ø, 4w
Mounting: Surface		$\Delta$ 1 (* $\Theta\Delta$ 1 $\Omega$ (* $\Omega$ 1 $\Omega$ 1 $\Omega$ 1 $\Omega$										Main: LUGS 125A
Circuit Description	KVA	CB	NO.	NOTE	Α	В	С	NOTE	NO.	СВ	KVA	Circuit Description
CASH WRAP DEDICATED RECEPTACLE	0.4	20/1	1	Α	X				2	20/1	0.2	FITTING RM. WORK STATION
CASH WRAP DEDICATED RECEPTACLE	0.4	20/1	3	Α		X			4	20/1		SPARE
CASH WRAP DEDICATED RECEPTACLE	0.4	20/1	5	Α			X		6	20/1	0.8	BELL/CORRIDOR/BOH CONV. RECER
CASH WRAP CONVENIENCE RECEPTS.	1.2	20/1	7		X				8	20/1	1.0	STOCKROOM PLUGMOLD
BACK WRAP RECEPTACLES	0.6	20/1	9			X		Α	10	20/1	1.0	SECURITY SYSTEM ON TTB
CONVENIENCE RECEPTACLES	1.3	20/1	11				X	Α	12	20/1	1.0	PHONE SYSTEM ON TTB
CONVENIENCE RECEPTACLES	1.1	20/1	13		X			Α	14	20/1	0.1	DETEXALARM
CONVENIENCE RECEPTACLES	0.6	20/1	15			X		Α	16	20/1	1.0	CHECKPOINT SYSTEM
SPARE		20/1	17				X		18	20/1	1.0	V.M. ROOM - PLUGMOLD
SPARE		20/1	19		X				20	20/1	1.0	V.M. ROOM - DUST DEPUTY
SPARE		20/1	21			X			22	20/1	0.4	TOILET GFI RECEPTACLES
OFFICE RECEPTACLES	0.9	20/1	23				X		24	20/1	1.0	DRINKING FOUNTAIN / WATER COOL
OFFICE PLUGMOLD	1.0	20/1	25		X				26	20/1	0.6	EMPLOYEE LOUNGE CONV. RECEP
MUSIC SERVER	0.6	20/1	27			X		Α	28	20/1	0.6	REFRIGERATOR
SPARE		20/1	29				X		30	20/1	1.8	COFFEE MAKER
SPARE		20/1	31		X				32	20/1	1.5	MICROWAVE
SPARE		20/1	33			X			34	20/1	0.8	V.M. ROOM CEILING RECEPTACLE
SPARE		20/1	35				X		36	20/1		SPARE
HVAC CONV. RECEPTACLES	1.5	20/1	37	Α	X				38	20/1		SPARE
DUCT SMOKE DETECTORS	0.2	20/1	39	Α		X			40	20/1	0.7	V.M. ROOM AIR FILTRATION UNIT
FIRE ALARM CONTROL PANEL	0.6	20/1	41	Α			X		42	20/1		SPARE
					Α	В	С					
CONNECTED KVA:	25.3			l	9.6	6.9	8.8					DESIGN DEMAND KVA: 23.9
CONNECTED HIGH PHASE AMPS:	80.0			•				_				DESIGN DEMAND AMPS: 66.4

PANEL NOTES:
A - PROVIDE CIRCUIT BREAKER LOCK-ON DEVICE. BALANCE PHASE LOADS TO WITHIN 10% OF EACH OTHER.

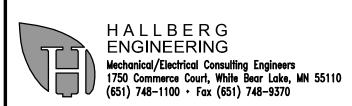
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> 07-11-2014 08-01-2014

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**REVISION**:

SHEET TITLE : POWER RISER DIAGRAM AND PANEL SCHEDULES

SHEET NO:

E501