

600 VOLT MOTOR CONTROL CENTRE – MCC-2B

CONNECTED KW: 618
DEMAND KW: 240

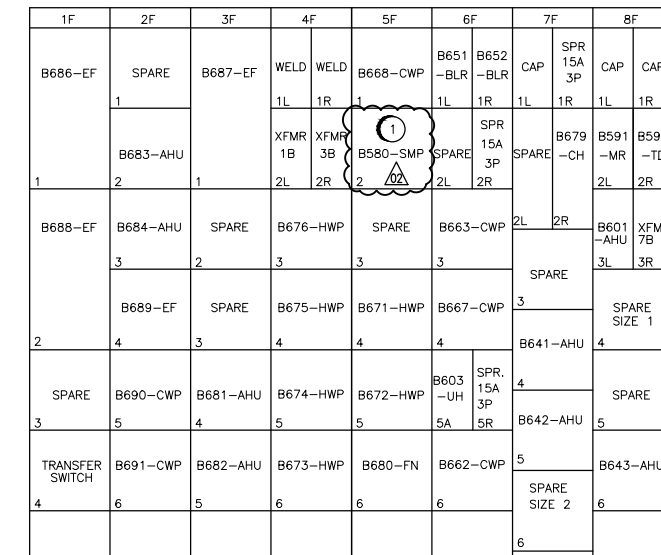
MCC NUMBER	EQUIP. NUMBER	MOTOR					STARTER			FEEDER			CIRCUIT PROTECTION		REMARKS
		DESCRIPTION	LOCATION	HP	KW	FULL LOAD AMPS	EEMAC SIZE	TYPE	OVERLOAD	CAP IN AMPS	SIZE	TYPE	CONT. RATING (AMPS)	FRAME SIZE	
1F-1	B686-EF	EXHAUST FAN – GRIT TANKS	ROOM B113	7.5	5.6	8.5	1	CMFVNR	FH38 & FH39	20	#12	RW90	15	HMCP	
1F-2	B688-EF	EXHAUST FAN – GRIT TANKS	ROOM B113	7.5	5.6	8.5	1	CMFVNR	FH38 & FH39	20	#12	RW90	15	HMCP	
1F-3	B699-EF	EMERGENCY EXHAUST FAN – CHLORINE ROOM	ROOM P113	2	1.5	2.7	1	CMFVNR	–	20	#12	RW90	7	HMCP	
1F-4		85 KW GENERATOR TRANSFER SWITCH BREAKER	ROOM B109	–	75	–	–	–	–	210	#1	RW90	150A-3P	HFD	
2F-1		SPARE (WAS B698-EF)		–	–	–	1	CMFVNR	–	–	–	–	3	HMCP	
2F-2	B683-AHU	AIR HANDLING UNIT – SHOP AREA	ROOM B113	5	3.7	5.6	1	CMFVNR	FH35	20	#12	RW90	15	HMCP	
2F-3	B684-AHU	AIR HANDLING UNIT – BOILER ROOM	ROOM B113	7.5	5.6	7.6	1	CMFVNR	FH38	20	#12	RW90	15	HMCP	
2F-4	B689-EF	EXHAUST FAN – GALLERY	ROOM B113	0.5	0.4	0.8	1	CMFVNR	FH13	20	#12	RW90	3	HMCP	
2F-5	B690-CWP	COOLING WATER PUMP-MOTOR ROOM COOLING	ROOM B103	7.5	5.6	7.5	1	CMFVNR	FH38	20	#12	RW90	15	HMCP	
2F-6	B691-CWP	COOLING WATER PUMP-MOTOR ROOM COOLING	ROOM B103	7.5	5.6	7.5	1	CMFVNR	FH38	20	#12	RW90	15	HMCP	
3F-1	B687-EF	EXHAUST FAN – GRIT TANKS	ROOM B113	7.5	5.6	8.5	1	CMFVNR	FH38 & FH39	20	#12	RW90	15	HMCP	
3F-2		SPARE (WAS B677-CP)		–	–	–	1	CMFVNR	–	–	–	–	3	HMCP	
3F-3		SPARE (WAS B678-CP)		–	–	–	1	CMFVNR	–	–	–	–	3	HMCP	
3F-4	B681-AHU	AIR HANDLING UNIT – GALLERY VENTILATION	ROOM B113	7.5	7.5	7.6	1	CMFVNR	FH39	20	#12	RW90	30	HMCP	
3F-5	B682-AHU	AIR HANDLING UNIT – CHLORINE ROOM	ROOM B113	0.75	0.56	0.88	1	CMFVNR	FH15	20	#12	RW90	3	HMCP	
4F-1L		WELDING RECEPTACLES	RM. B111/B120	–	60	–	–	–	–	65	#6	RW90	60A-3P	HFD	
4F-1R		WELDING RECEPTACLES	RM B103/B113	–	60	–	–	–	–	65	#6	RW90	60A-3P	HFD	
4F-2L		45 KVA 600-600/347 V TRANSFORMER "1B"	ROOM B107	–	45KVA	–	–	–	–	65	#6	RW90	60A-3P	HFD	
4F-2R		45 KVA 600-208/120 V TRANSFORMER "3B"	ROOM B107	–	45KVA	–	–	–	–	65	#6	RW90	60A-3P	HFD	
4F-3	B676-HWP	HOT WATER CIRCULATION PUMP – AREA "B"	ROOM B103	1.5	1.1	2.0	1	CMFVNR	FH26	20	#12	RW90	7	HMCP	
4F-4	B675-HWP	HOT WATER CIRCULATION PUMP – AREA "B"	ROOM B103	1.5	1.1	2.2	1	CMFVNR	FH25	20	#12	RW90	7	HMCP	
4F-5	B674-HWP	HOT WATER CIRCULATION PUMP – AREA "P" & "S"	ROOM B103	15	11.2	14.5	2	CMFVNR	FH45	20	#12	RW90	50	HMCP	
4F-6	B673-HWP	HOT WATER CIRCULATION PUMP – AREA "P" & "S"	ROOM B103	15	11.2	14.5	2	CMFVNR	FH45	20	#12	RW90	50	HMCP	
5F-1	B668-CWP	CHILLED WATER PUMP-SERVICE BUILDING COOLING	ROOM B103	7.5	5.6	9.1	1	CMFVNR	–	20	#12	RW90	15	HMCP	
5F-2	B580-SMP	BOILER ROOM FLOOD PUMP	ROOM B103	2.5	5.6	4.2	1	CMFVNR	–	20	12 AWG	RW90	15	HMCP	
5F-3		SPARE (WAS B670-CWP)		–	–	–	–	–	–	–	–	–	15	HMCP	
5F-4	B671-HWP	HOT WATER CIRCULATION PUMP – AREA "G" & "M"	ROOM B103	5	3.7	5.6	1	CMFVNR	FH35	20	#12	RW90	15	HMCP	
5F-5	B672-HWP	HOT WATER CIRCULATION PUMP – AREA "G" & "M"	ROOM B103	5	3.7	5.6	1	CMFVNR	FH35	20	#12	RW90	15	HMCP	
5F-6	B680-FN	COOLING TOWER FAN – MOTOR ROOM COOLING	OUTDOORS	7.5	5.6	7.6	1	CMFVNR	FH38	20	#12	RW90	15	HMCP	
6F-1L	B651-BLR	HOT WATER BOILER #1	ROOM B103	7.5	5.6	9	–	–	–	20	#12	RW90	20A-3P	HFD	
6F-1R	B652-BLR	HOT WATER BOILER #2	ROOM B103	7.5	5.6	9	–	–	–	20	#12	RW90	20A-3P	HFD	
6F-2L		SPARE (WAS B653-BLR)		–	–	–	–	–	–	–	–	–	15A-3P	HFD	
6F-2R		SPARE (WAS B696-EF)		–	–	–	–	–	–	–	–	–	15A-3P	HFD	
6F-3	B663-CWP	CHILLED WATER PUMP-MOTOR ROOM COOLING	ROOM B103	7.5	5.6	7.5	1	CMFVNR	FH38	20	#12	RW90	15	HMCP	
6F-4	B667-CWP	CHILLED WATER PUMP-SERVICE BUILDING COOLING	ROOM B103	7.5	5.6	9.1	1	CMFVNR	–	20	#12	RW90	15	HMCP	
6F-5L	B603-UH	CHEM. STORAGE BLDG. UNIT HEATER	CHEM. STORAGE	–	20	20	–	–	–	45	#8	RW90	30A-3P	HFD	PACKAGED AHU C/W CONTROLS
6F-5R		SPARE BREAKER		–	–	–	–	–	–	–	–	–	15A-3P	HFD	
6F-6	B662-CWP	CHILLED WATER PUMP-MOTOR ROOM COOLING	ROOM B103	7.5	5.6	7.5	1	CMFVNR	FH38	20	#12	RW90	15	HMCP	
7F-1L		CAPACITOR BREAKER		–	–	–	–	–	–	30	#10	RW90	30A-3P	HFD	20KVAR CAPACITOR
7F-1R		SPARE BREAKER		–	–	–	–	–	–	–	–	–	15A-3P	HFD	
7F-2L		SPARE (WAS B657-CH)		–	–	–	–	–	–	–	–	–	100-3P	HFD	PACKAGED CHILLER C/W CONTROLS
7F-2R	B679-CH	CHILLER – MOTOR ROOM COOLING	ROOM B103	100	75	120	–	–	–	155	#1/0	RW90	150A-3P	HFD	PACKAGED CHILLER C/W CONTROLS
7F-3		SPARE		–	–	–	1	CMFVNR	–	–	–	–	30	HMCP	
7F-4	B641-AHU	AIR HANDLING UNIT-SERVICE BLDG. EXTENSION	ROOM B124	.75	0.56	1.2	1	CMFVNR	FH18	20	#12	RW90	3	HMCP	
7F-5	B642-AHU	INSTRUMENT RMS PRESSURIZATION UNIT	ROOM B124	0.75	0.56	3	1	CMFVNR	FH28	20	#12	RW90	7	HMCP	
7F-6		SPARE STARTER		–	–	–	2	CMFVNR	–	–	–	–	50	HMCP	
8F-1L		CAPACITOR BREAKER		–	–	–	–	–	–	30	#10	RW90	30A-3P	HFD	20KVAR CAPACITOR
8F-1R		CAPACITOR BREAKER		–	–	–	–	–	–	30	#10	RW90	30A-3P	HFD	20KVAR CAPACITOR
8F-2L	B591-MR	MONORAIL	ROOM B111	3	2.2	3.9	–	–	–	20	#12	RW90	15A-3P	HFD	
8F-2R	B594-TD	TRUCK DOOR	ROOM B111	0.5	0.37	0.8	–	–	–	20	#12	RW90	15A-3P	HFD	
8F-3L	B601-AHU	AIR HANDLING UNIT – CHEMICAL STORAGE BUILDING	CHEM. ST. BLDG.	1	0.75	1.3	–	–	–	20	#12	RW90	15A-3P	HFD	PACKAGED AHU C/W CONTROLS
8F-3R		45 KVA 600-208/120 V TRANSFORMER "7B"	ROOM B107	–	45KVA	–	–	–	–	65	#6	RW90/TECK	60A-3P	HFD	LOCATED IN SERVICE BLDG. ELECT. RM.
8F-4		SPARE STARTER		–	–	–	1	CMFVNR	–	–	–	–	7	HMCP	
8F-5		SPARE (WAS B658-FN)		–	–	–	1	CMFVNR	–	–	–	–	30	HMCP	
8F-6	B643-AHU	INSTRUMENT ROOMS RECIRCULATION UNIT	ROOM B124	1.5	1.1	1.6	1	CMFVNR	FH21	20	#12	RW90	3	HMCP	

MCC DETAILS:

MANUFACTURER: WESTINGHOUSE
MODEL: FIVE STAR
ORDER NO.: 37B7140
MAIN BUS AMPACITY: 800A
VOLTAGE: 600V, 3Ø, 3W
MINIMUM INTERRUPTING RATING: 25kA

MAIN BREAKER:

WESTINGHOUSE RD316TW
RD65K
RS SELECTRONIC TRIP UNIT
CAT16R508T
800A
RS31600T
SHORT TIME PICK UP = 2IN

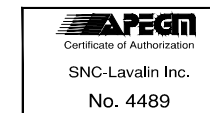


MCC-2B – FRONT ELEVATION

NOTE: FOR DETAIL OF MCC 2B SWITCH GEAR SECTION, TO WESTINGHOUSE DRAWING 1487005 IN O&M MANUAL.

CONSTRUCTION NOTES:

- 1 MODIFY EXISTING SPARE STARTER TO MATCH ELEMENTARY DIAGRAM. INSTALL LAMACOID ON DOOR WITH WORDING: "B580-PU BOILER ROOM FLOOD PUMP."



DESIGNED: T. CHURCH		APPROVED: C. REIMER	
CHECKED: C. REIMER		DATE: 2012/10/09	
PROJECT NO. 112577	SUBNO. 0105	SUBJECT 47 DD	SERIAL 0203
REV. 02			

B.M. ELEV.		MACLAREN ENGINEERS INC. WARDROP ENGINEERING INC.	
		ENGINEERING CONSULTANTS	
DESIGNED BY	B.T.	CHECKED BY	
DRAWN BY	N.B.	APPROVED BY	
2 ADDED B580-SMP	2012/09/10 TMC	RELEASED FOR CONSTRUCTION:	
1 AS CONSTRUCTED	08/93 B.T.		
0 ISSUED FOR TENDER	12/91 B.T.		
- ISSUED FOR CITY REVIEW	05/91 B.T.		
NO REVISIONS	DATE BY	DATE	OCTOBER 1990

CONSULTANT DRAWING NO. 870012-01-20-B-E304

THE CITY OF WINNIPEG
WORKS AND OPERATIONS DIVISION
WATERWORKS, WASTE & DISPOSAL DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE CITY DRAWING NUMBER
SERVICE BUILDING EXPANSION-ELECTRICAL SHEET OF
MOTOR CONTROL CENTRE 2B

SEP-908