

600 VOLT MOTOR CONTROL CENTRE - MCC 2G

CONNECTED KW: 229  
DEMAND KW: 187

MCC NUMBER	EQUIP. NUMBER	MOTOR					STARTER		FEEDER			CIRCUIT PROTECTION		REMARKS
		DESCRIPTION	LOCATION	HP	KW	FULL LOAD AMPS	EEMAC SIZE	TYPE	CAP IN AMPS	SIZE	TYPE	CONT. RATING (AMPS)	FRAME TYPE	
1F-1	G672-HWP	HOT WATER PUMP	ROOM G130	3	2.2	3.3	1	CMFVNR	20	#12	RW90	7	HMCP	
1F-3	G258-GRP	GRIT CLASSIFIER	ROOM G127	0.5	0.37	1.0	1	CMFVNR	20	#12	RW90	3	HMCP	
1F-4	G210-GRP	GRIT PUMP	ROOM G135	15	11.2	15.2	2	CMFVNR	30	#10	RW90	50	HMCP	
2F-1L		CAPACITOR BREAKER		-	-	-	-	-	20	#12	RW90	15A-3P	HFD	
2F-1R		CAPACITOR BREAKER		-	-	-	-	-	20	#12	RW90	15A-3P	HFD	
2F-2L	G566-TD	TRUCK DOOR	ROOM G122	1.5	1.1	2.1	-	-	20	#12	RW90	15A-3P	HFD	LOCAL PACKAGED CONTROLS
2F-2R	G564-MR	MONORAIL	ROOM G122	15	11.2	17	-	-	30	#10	RW90	30A-3P	HFD	LOCAL PACKAGED CONTROLS
2F-5		POWER FACTOR CORRECTION CAPACITOR		-	10KVAR	-	-	-	20	#12	RW90	-	-	CAPACITOR BREAKER IN SECTION 2F-1A
2F-6		POWER FACTOR CORRECTION CAPACITOR		-	10KVAR	-	-	-	20	#12	RW90	-	-	CAPACITOR BREAKER IN SECTION 2F-2B
3F-1L		CAPACITOR BREAKER		-	-	-	-	-	30	#10	RW90	30A-3P	HFD	
3F-1R		WELDING RECEPTACLES	RM G125/126/127	-	60	-	-	-	65	#6	RW90	60A-3P	HFD	
3F-2	G670-GP	GLYCOL PUMP	ROOM G130	20	15	22	2	CMFVNR	30	#10	RW90	50	HMCP	
3F-3	G682-AHU	COOLING AIR HANDLING UNIT - BLOWER ROOM	ROOM G130	3	2.2	3.24	1	CMFVNR	20	#12	RW90	7	HMCP	
3F-4	G684-AHU	AIR HANDLING UNIT - SCREEN & GRIT	ROOM G130	7.5	5.6	7.6	1	CMFVNR	20	#12	RW90	15	HMCP	
3F-5		POWER FACTOR CORRECTION CAPACITOR		-	20KVAR	-	-	-	30	#10	RW90	-	-	CAPACITOR BREAKER IN SECTION 3F-1A
4F-1	G686-EF	EXHAUST FAN - WET WELL	ROOM G130	5	3.7	5.8	1	CMFVNR	20	#12	RW90	15	HMCP	
4F-2	G688-EF	EXHAUST FAN - PUMP & SCREEN ROOM	ROOM G137	5	3.7	5.8	1	CMFVNR	20	#12	RW90	15	HMCP	
4F-3	G542-AB	CHANNEL AERATION BLOWER	ROOM G115	75	56	68	4	CMFVNR	120	#2	RW90	150	HMCP	UNDERVOLTAGE PROTECTED VIA DCS 2 1
4F-4		CAPACITOR FOR MOTOR G542-AB		-	15KVAR	-	-	-	20	#12	RW90	20A-3P	HFD	
5F-1	G680-AHU	AIR HANDLING UNIT - MOTOR ROOM	ROOM G130	7.5	5.6	7.6	1	CMFVNR	20	#12	RW90	15	HMCP	
5F-3R	G568-EL	ELEVATOR	ROOM G131	10	7.5	11	-	-	20	#12	RW90	15A-3P	HFD	LOCAL PACKAGED CONTROLS
5F-4	G244-GB	GRIT BLOWER	ROOM G115	50	37.3	47.5	3	CMFVNR	85	#4	RW90	100	HMCP	UNDERVOLTAGE PROTECTED VIA DCS 2 1
5F-5		CAPACITOR FOR MOTOR G244-GB		-	10KVAR	-	-	-	20	#12	RW90	15A-3P	HFD	
1F-6		MAIN LUGS		-	-	-	-	-	-	-	RW90	-	-	INCOMING 800 AMP LO Z BUS DUCT
1F-2L		SPARE BREAKER		-	-	-	-	-	-	-	-	15A-3P	HFD	
1F-2R		SPARE BREAKER		-	-	-	-	-	-	-	-	15A-3P	HFD	
1F-5		SPARE STARTER		-	-	-	2	CMFVNR	-	-	-	50	HMCP	
2F-3		SPARE STARTER		-	-	-	1	CMFVNR	-	-	-	30	HMCP	
5F-3L		SPARE BREAKER		-	-	-	-	-	-	-	-	30A-3P	HFD	

1F	2F	3F	4F	5F	6F
G672-HWP 1	10kVAR CAP BRKR 1L 1R	20kVAR CAP BRKR 1L 1R	G686-EF 1	G680-AHU 1	SPACE
SPARE 15A 3P 2L 2R	G564 -MR 2L 2R	G566 -TD 2	G670-GP 2	SPACE 2	
G258-GRP 3	SPARE SIZE 1 3	G682-AHU 3	G542-AB 3	SPARE 30 A 3P 3L 3R	G568 -EL 3R
G210-GRP 4	SPACE 4	G684-AHU 4		G244-GB 4	
SPARE SIZE 2 5	10 kVAR CAPACITOR 5	20 kVAR CAPACITOR 5	G542-AB CAPACITOR 4		
MAIN LUGS 6	10 kVAR CAPACITOR 6			G244-GB CAPACITOR 5	

MCC 2G - FRONT ELEVATION

CONSTRUCTION NOTES  
1 PROGRAM IQ DATA PLUS II UNIT ON MCC-2G AND CONNECT ITS DISCRETE ALARM CONTACT TO DCS.



SNC-LAVALIN INC. 148 Nature Park Way Winnipeg, Manitoba Canada R3P 0X7					
DESIGNED BY N. BRADDOO	APPROVED BY C. REIMER				
CHECKED BY C. REIMER	DATE 2009/12/07				
PROJECT No.	SUBV.	SUBJECT	SERIAL	REV.	
112577	0105	47 DD	0107	2	

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 UNDERVOLTAGE PROTECTION TO MCC-2G	12/09	NB	
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

ORIGINAL DRAWING SEALED BY: N. BRADDOO SNC-LAVALIN 2009/12/07 REV. 02

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

SOUTH END WATER POLLUTION CONTROL CENTRE  
PUMP & SCREEN BUILDING - ELECTRICAL  
MOTOR CONTROL CENTRE 2G

CITY DRAWING NUMBER  
SHEET OF  
SEP-830

CONSULTANT DRAWING NO.  
870012-01-20-G-E109