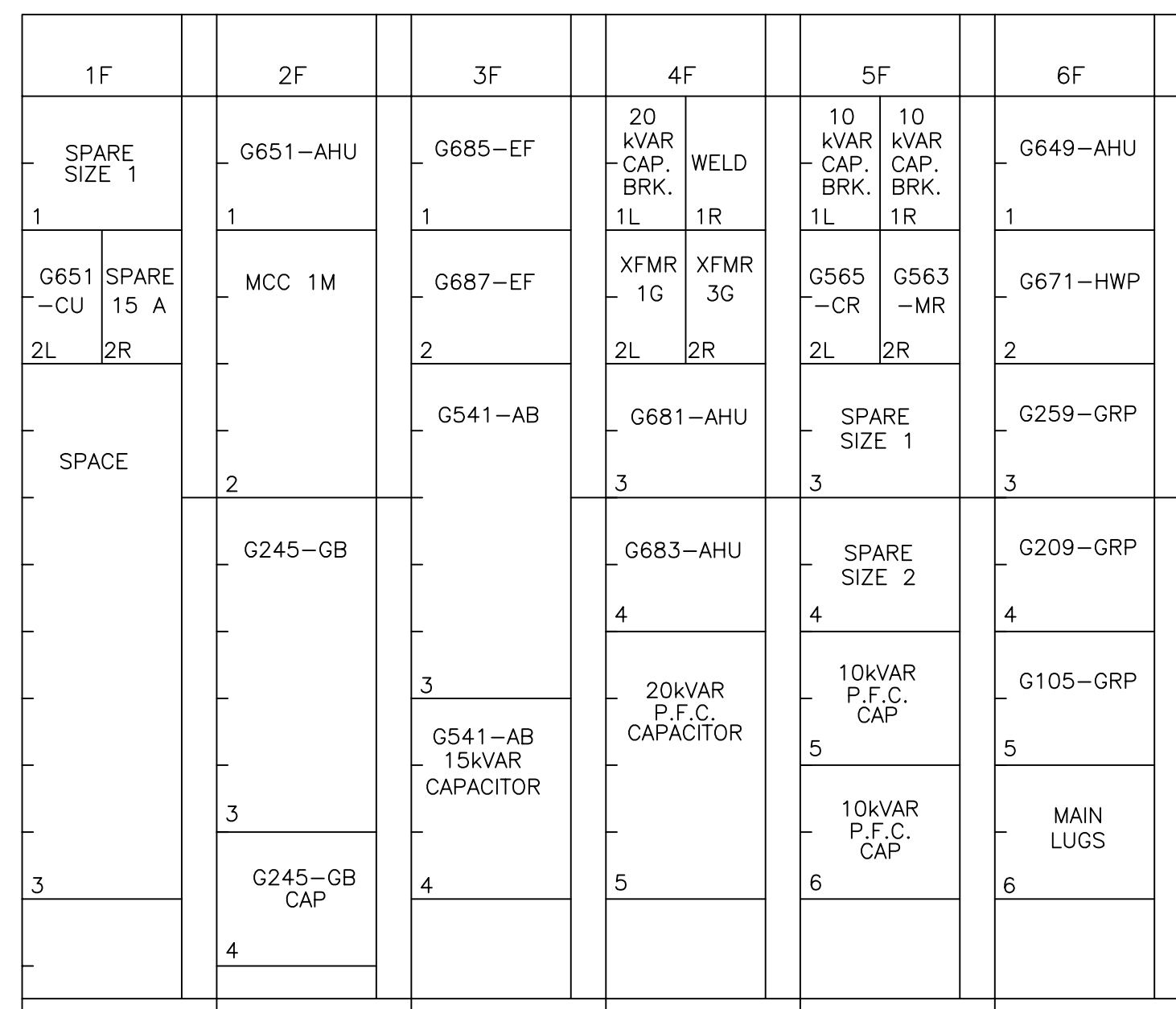


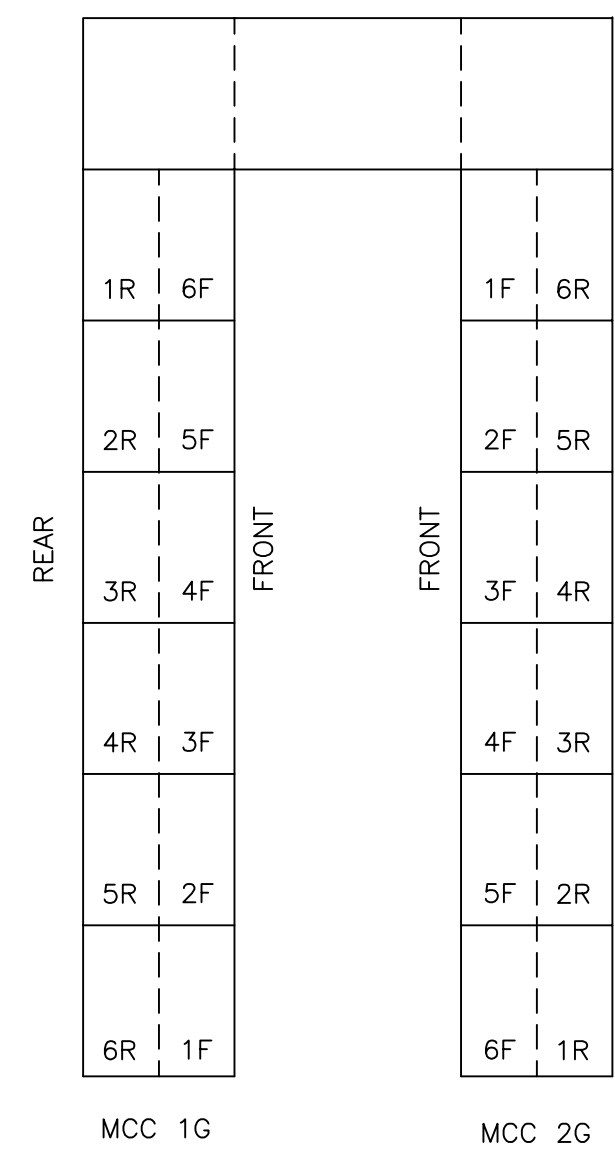
600 VOLT MOTOR CONTROL CENTRE – MCC 1G

CONNECTED KW: 502  
DEMAND KW: 370

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	
6F-5	G105-GRP	GRIT REMOVAL PUMP	ROOM G114	20	15	22	2	CMFVNR	30	#10	RW90	50	HMCP	
6F-4	G209-GRP	GRIT PUMP	ROOM G135	15	11.2	15.2	2	CMFVNR	30	#10	RW90	50	HMCP	
2F-3	G245-GB	GRIT BLOWER	ROOM G115	50	37.3	47.5	3	CMFVNR	85	#4	RW90	100	HMCP	UNDERVOLTAGE PROTECTED VIA DCS
6F-3	G259-GRP	GRIT CLASSIFIER	ROOM G127	0.5	0.37	1.0	1	CMFVNR	20	#12	RW90	3	HMCP	UNDERVOLTAGE PROTECTED VIA DCS
3F-3	G541-AB	CHANNEL AERATION BLOWER	ROOM G115	75	56	68	4	CMFVNR	120	#2	RW90	150	HMCP	UNDERVOLTAGE PROTECTED VIA DCS
5F-2R	G563-MR	MONORAIL	ROOM G125	8	6	10	-	-	20	#12	RW90	15A-3P	HFD	LOCAL PACKAGED CONTROLS
5F-2L	G565-CR	CRANE	ROOM G127	6.5	4.8	8	-	-	20	#12	RW90	15A-3P	HFD	LOCAL PACKAGED CONTROLS
6F-2	G671-HWP	HOT WATER PUMP	ROOM G130	3	2.2	3.3	1	CMFVNR	20	#12	RW90	7	HMCP	
4F-3	G681-AHU	COOLING AIR HANDLING UNIT – MOTOR ROOM	ROOM G130	5	3.7	5.6	1	CMFVNR	20	#12	RW90	15	HMCP	
4F-4	G683-AHU	RECIRCULATION UNIT – MOTOR/PUMP ROOM	ROOM G130	7.5	5.6	7.6	1	CMFVNR	20	#12	RW90	15	HMCP	
3F-1	G685-EF	EXHAUST FAN – MOTOR/PUMP ROOM	ROOM G130	1.5	1	1.8	1	CMFVNR	20	#12	RW90	7	HMCP	
3F-2	G687-EF	EXHAUST FAN – WET WELL	ROOM G130	10	7.5	11	1	CMFVNR	20	#12	RW90	30	HMCP	
2F-1	G651-AHU	RECIRCULATION UNIT – CONTROL ROOM	ROOM G130	1	2.2	1.1	1	CMFVNR	20	#12	RW90	7	HMCP	
6F-1	G649-AHU	PRESSURIZATION UNIT – CONTROL ROOM	ROOM G130	2	1.5	2.2	1	CMFVNR	20	#12	RW90	7	HMCP	
1F-2L	G651-AHU	CONDENSING UNIT – CONTROL ROOM	PENTHOUSE	8	6	10.4	-	-	20	#12	RW90	20A-3P	HFD	
4F-2L		45 KVA 600-600/347 V TRANSFORMER "1G"	ROOM G116	-	45KVA	-	-	-	120	#2	RW90	100A-3P	HFD	
4F-2R		45 KVA 600-208/120 V TRANSFORMER "3G"	ROOM G116	-	45KVA	-	-	-	65	#6	RW90	60A-3P	HFD	
4F-1R		WELDING RECEPTACLES	RM G108/115/116	-	60	-	-	-	65	#6	RW90	60A-3P	HFD	
2F-2		FEED TO MCC 1M (ADMINISTRATION BUILDING)		-	200	-	-	-	325	350MCM	RW90	300A-3P	KD	
5F-5		POWER FACTOR CORRECTION CAPACITOR		-	10KVAR	-	-	-	20	#12	RW90	-	-	CAPACITOR BREAKER IN SECTION 4F-1A
5F-1L		CAPACITOR BREAKER		-	-	-	-	-	20	#12	RW90	15A-3P	HFD	
5F-6		POWER FACTOR CORRECTION CAPACITOR		-	10KVAR	-	-	-	20	#12	RW90	-	-	CAPACITOR BREAKER IN SECTION 4F-1B
5F-1R		CAPACITOR BREAKER		-	-	-	-	-	20	#12	RW90	15A-3P	HFD	
4F-5		POWER FACTOR CORRECTION CAPACITOR		-	20KVAR	-	-	-	30	#10	RW90	-	-	CAPACITOR BREAKER IN SECTION 3F-1A
4F-1L		CAPACITOR BREAKER		-	-	-	-	-	30	#10	RW90	30A-3P	HFD	
2F-4		CAPACITOR FOR MOTOR G245-GB		-	10KVAR	-	-	-	20	#12	RW90	15A-3P	HFD	
3F-4		CAPACITOR FOR MOTOR G541-AB		-	15KVAR	-	-	-	20	#12	RW90	20A-3P	HFD	
6F-6		MAIN LUGS		-	-	-	-	-	-	-	RW90	-	-	INCOMING 800 AMP LO Z BUS DUCT
5F-4	-	SPARE STARTER		-	-	-	2	CMFVNR	-	-	-	30	HMCP	
5F-3	-	SPARE STARTER		-	-	-	1	CMFVNR	-	-	-	30	HMCP	
1F-2R	-	SPARE BREAKER		-	-	-	-	-	-	-	-	15A-3P	HFD	
1F-1	-	SPARE STARTER		-	-	-	1	CMFVNR	-	-	-	30	HMCP	



MCC 1G – FRONT ELEVATION  
N.T.S.



MCC 1G & 2G LAYOUT-PLAN VIEW  
N.T.S.

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



SNC-LAVALIN INC.					
148 Nature Park Way Winnipeg, Manitoba Canada R3P 0K7					
DESIGNED BY:	N. BRADDOO	APPROVED BY:	C. REIMER	DATE:	2009/12/07
CHECKED BY:	C. REIMER	DATE:	2009/12/07	PROJECT No.:	112577
SUBV.:	0105	SUBJECT:	47 DD	SERIAL:	0106
REV.:					2

B.M. ELEV.		MACLAREN ENGINEERS INC. WARDROP ENGINEERING INC. ENGINEERING CONSULTANTS	
DESIGNED BY:	N.B.	CHECKED BY:	B.T.
DRAWN BY:	N.B.	APPROVED BY:	B.T.
HOR. SCALE:	N.T.S.	RELEASED FOR CONSTRUCTION:	
DATE:	OCTOBER 1990	DATE:	
NO. REVISIONS:		DATE:	

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 1G

CITY DRAWING NUMBER: \_\_\_\_\_  
SHEET OF: \_\_\_\_\_

CONSULTANT DRAWING NO.: 870012-01-20-G-E108

SEP-829