

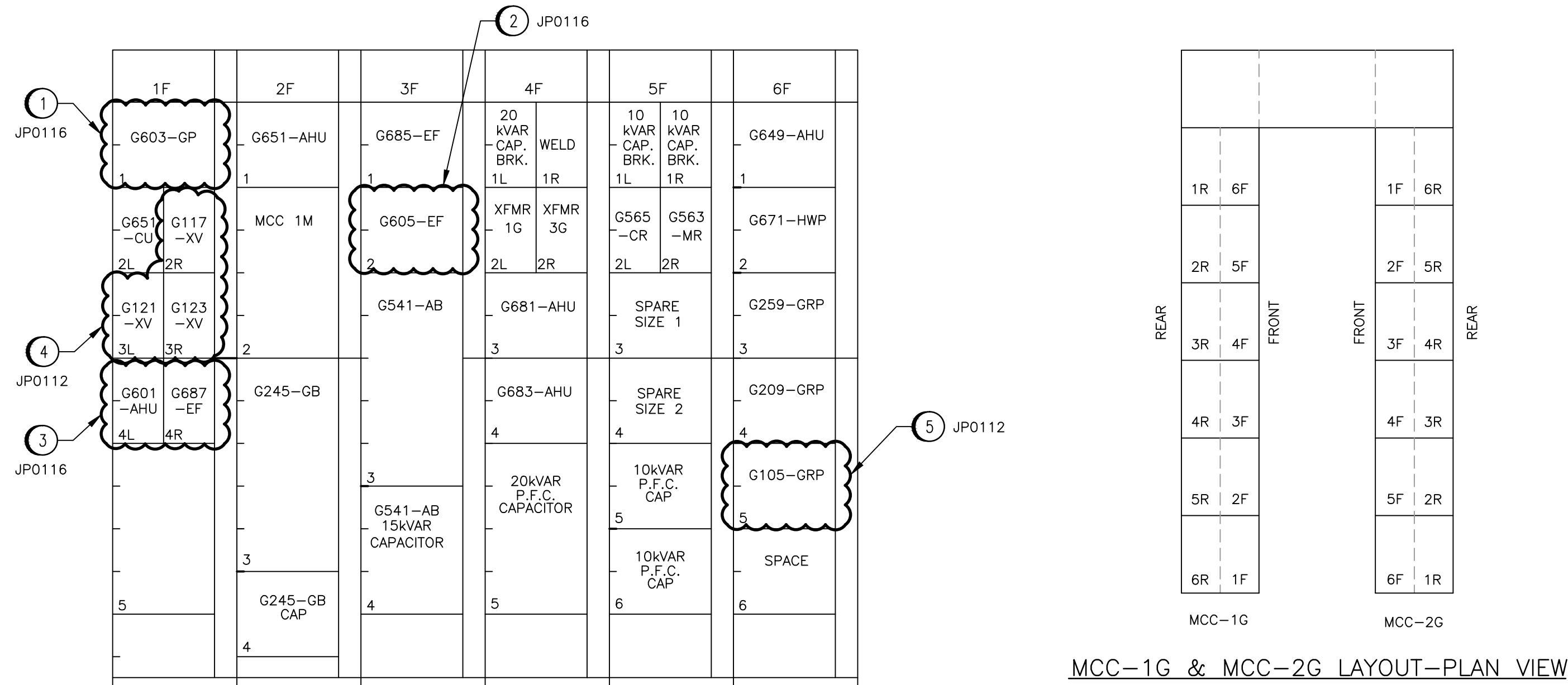
600 VOLT MOTOR CONTROL CENTRE – MCC-1G

CONNECTED KW: 502
DEMAND KW: 370

MCC DETAILS:

MANUFACTURER: WESTINGHOUSE
MODEL: FIVE STAR
ORDER NO.: 3787136
MAIN BUS AMPACITY: 800A
VOLTAGE: 600V, 3Ø, 3W

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 TYPE		
6F-5	G105-GRP	GRIT REMOVAL PUMP	ROOM G114	20	15	22	2	CMFVNR	FH46	30	#10	RW90	50	HMCP		
6F-4	G209-GRP	GRIT PUMP	ROOM G135	15	11.2	15.2	2	CMFVNR	FH49	30	#10	RW90	50	HMCP		
2F-3	G245-GB	GRIT BLOWER	ROOM G115	50	37.3	47.5	3	CMFVNR	FH81	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		
3F-3	G541-AB	CHANNEL AERATION BLOWER	ROOM G115	75	56	68	4	CMFVNR	FH85	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	OUT OF SERVICE	
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	FH29	20	#12	RW90	7	HMCP		
4F-3	G681-AHU	COOLING AIR HANDLING UNIT – MOTOR ROOM	ROOM G130	5	3.7	5.6	1	CMFVNR	FH35	20	#12	RW90	15	HMCP		
4F-4	G683-AHU	RECIRCULATION UNIT – MOTOR/PUMP ROOM	ROOM G130	7.5	5.6	7.6	1	CMFVNR	FH38	20	#12	RW90	15	HMCP		
3F-1	G685-EF	EXHAUST FAN – MOTOR/PUMP ROOM	ROOM G130	1.5	1	1.8	1	CMFVNR	FH23	20	#12	RW90	7	HMCP		
JP0116	3F-2	G605-EF	ELECTRICAL ROOM EXHAUST	-	-	-	1	CMFVNR	-	-	-	-	30	HMCP		
2F-1	G651-AHU	RECIRCULATION UNIT – CONTROL ROOM	ROOM G130	1	2.2	1.1	1	CMFVNR	FH30	20	#12	RW90	7	HMCP		
6F-1	G649-AHU	PRESSURIZATION UNIT – CONTROL ROOM	ROOM G130	2	1.5	2.2	1	CMFVNR	FH26	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	60A-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		
5F-4	-	SPARE STARTER	-	-	-	-	2	CMFVNR	-	-	-	-	50	HMCP		
5F-3	-	SPARE STARTER	-	-	-	-	1	CMFVNR	-	-	-	-	30	HMCP		
JP0112	1F-2R	G117-XV	WEST WET WELL INLET CHAMBER ACTUATOR	INLET CHAMBER	-	8.9	-	-	-	18	10 AWG	TECK 90	15A-3P	HFD	CABLE DE-RATED 50%	
JP0112	1F-3L	G121-XV	RAW SEWAGE PUMP SUCTION VALVE ACTUATOR	ROOM G101	-	3.8	-	-	-	10	12 AWG	TECK 90	15A-3P	HFD	CABLE DE-RATED 50%	
JP0112	1F-3R	G123-XV	RAW SEWAGE PUMP SUCTION VALVE ACTUATOR	ROOM G101	-	3.8	-	-	-	10	12 AWG	TECK 90	15A-3P	HFD	CABLE DE-RATED 50%	
JP0116	1F-1	G603-GP	GLYCOL PUMP	ROOM G129	1	0.75	1.4	1	CMFVNR	-	20	12 AWG	TECK 90	7	HMCP	
JP0116	1F-5L	G601-AHU	WET WELL UPPER LEVEL SUPPLY	ROOM G129	-	-	-	-	-	-	-	-	6A-3P	FUSE	FEED FOR VFD	
JP0116	1F-5R	G687-EF	WET WELL EXHAUST FAN 1	ROOM G130	-	-	-	-	-	-	-	-	6A-3P	FUSE	FEED FOR VFD	



**JP0116 CONSTRUCTION NOTES
NOT IN SCOPE OF HEADWORKS UPGRADES**

- USE SPARE MCC BUCKET FOR G603-GP AND REWIRE AS SHOWN ON SCHEMATIC DRAWING.
- RE-USE EXISTING G687-EF MCC BUCKET FOR G605-EF AND REWIRE AS SHOWN ON SCHEMATIC DRAWING.
- INSTALL FUSED DISCONNECTS FOR VFD'S FOR G601-AHU AND G687-EF.

JP0112 CONSTRUCTION NOTES

- INSTALL CIRCUIT BREAKERS FOR VALVE ACTUATORS.
- RE-WIRE REPLACE STARTER. RE-USE CONDUCTORS TO MOTOR.

MCC-1G – FRONT ELEVATION
N.T.S.

APEGM
Certificate of Authorization
SNC-Lavalin Inc.
No. 4489

SNC-Lavalin Inc.
148 Nature Park Way
Winnipeg, Manitoba
Canada R3P 0X7

DESIGNED: T. CHURCH
CHECKED: C. REIMER
PROJECT No. 112577
SUBJ. 0112
DATE: 2010/10/01
SUBJECT: 47 DD
SERIAL: 0001
REV: 3

B.M. ELEV.

MACLAREN ENGINEERS INC.
WARDROP ENGINEERING INC.

ENGINEERING CONSULTANTS

3	ADDED BREAKERS FOR ACTUATORS	2010/09/01	TMC
2	ADDED UNDERVOLTAGE PROTECTION TO MCC-1G	12/09	NB
1	AS CONSTRUCTED	08/03	B.T.
0	ISSUED FOR TENDER	12/91	B.T.
-	ISSUED FOR CITY REVIEW	05/91	B.T.

HOR. SCALE: N.T.S.
VERTICAL: N.T.S.

RELEASED FOR CONSTRUCTION: DATE

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

**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 SEP-829