

600 VOLT MOTOR CONTROL CENTRE - MCC-2G

CONNECTED KW: 229
DEMAND KW: 187

MCC NUMBER	EQUIP. NUMBER	LOAD		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	
1F-1	G672-HWP	HOT WATER PUMP	ROOM G130	3	2.2	3.3	1	CMFVNR	FH29	20	#12	RW90	7	HMCP	
1F-3	G258-GRP	GRIT CLASSIFIER	ROOM G127	0.5	0.37	1.0	1	CMFVNR	FH16	20	#12	RW90	3	HMCP	
1F-4	G210-GRP	GRIT PUMP	ROOM G135	15	11.2	15.2	2	CMFVNR	FH46	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	USED FOR POWER WASHER
3F-2	G670-GP	GLYCOL PUMP	ROOM G130	20	15	22	2	CMFVNR	FH49	30	#10	RW90	50	HMCP	
3F-3	G682-AHU	COOLING AIR HANDLING UNIT - BLOWER ROOM	ROOM G130	3	2.2	3.2	1	CMFVNR	ELECTRONIC	15	12 AWG	TECK90	7	HMCP	CABLE DE-RATED 50%, CEC 2012
3F-4	G684-AHU	AIR HANDLING UNIT - SCREEN & GRIT	ROOM G130	7.5	5.6	7.6	1	CMFVNR	FH38	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	ELECTRONIC	20	12 AWG	RW90	15	HMCP	
4F-2	G688-EF	EXHAUST FAN - PUMP & SCREEN ROOM	ROOM G137	5	3.7	5.8	1	CMFVNR	FH35	20	#12	RW90	15	HMCP	
4F-3	G542-AB	CHANNEL AERATION BLOWER	ROOM G115	75	56	68	4	CMFVNR	FH85	120	#2	RW90	150	HMCP	
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	FH38	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	FH81	85	#4	RW90	100	HMCP	
5F-5		CAPACITOR FOR MOTOR G244-GB		-	10KVAR	-	-	-	-	20	#12	RW90	15A-3P	HFD	
1F-2L		SPARE BREAKER		-	-	-	-	-	-	-	-	-	15A-3P	HFD	
1F-2R		SPARE BREAKER		-	-	-	-	-	-	-	-	-	15A-3P	HFD	
1F-5		SPARE STARTER		-	-	-	2	CMFVNR	-	-	-	-	50	HMCP	
2F-3	G692-EF	ELECTRICAL ROOM EXHAUST	ROOM G114	1.5	1.1	2.1	1	CMFVNR	-	15	12 AWG	TECK90	7	HMCP	CABLE DE-RATED 50%, CEC 2012
5F-3L		SPARE BREAKER		-	-	-	-	-	-	-	-	-	30A-3P	HFD	
6F-1L	G118-XV	EAST WET WELL INLET CHAMBER ACTUATOR	INLET CHAMBER	-	-	8.9	-	-	-	18	10 AWG	TECK90	15A-3P	HFD	CABLE DE-RATED 50%
6F-2L	G122-XV	RAW SEWAGE PUMP SUCTION VALVE ACTUATOR	ROOM G101	-	-	3.8	-	-	-	10	12 AWG	TECK90	15A-3P	HFD	CABLE DE-RATED 50%
6F-2R	G124-XV	RAW SEWAGE PUMP SUCTION VALVE ACTUATOR	ROOM G101	-	-	3.8	-	-	-	10	12 AWG	TECK90	15A-3P	HFD	CABLE DE-RATED 50%
6F-3L	G602-SF	WET WELL LOWER LEVEL SUPPLY VFD	ROOM G129	5	3.7	5.8	1	CMFVNR	FH38	20	#12	RW90	15A-3P	HFD	CABLE DE-RATED 50%, CEC 2012
6F-4	DP-G799	TEMP. CONSTRUCTION POWER	EXTERIOR N.E.	-	-	-	-	-	-	-	500 MCM	TECK90	300AT/400AF-3P	KD	CABLE DE-RATED 70%, CEC SC & TABLE 13

MCC DETAILS:

MANUFACTURER: WESTINGHOUSE
MODEL: FIVE STAR
ORDER NO.: 3787137
MAIN BUS AMPACITY: 800A
VOLTAGE: 600V, 3Ø, 3W
MINIMUM INTERRUPTING RATING: 25kA

1F	2F	3F	4F	5F	6F
G672-HWP 1	10KVAR CAP BRKR 1L 10KVAR CAP BRKR 1R	20KVAR CAP BRKR 1L WELD CAP BRKR 1R	G686-EF 1	G680-AHU 1	G118-XV 1R SPARE
SPARE 15A 3P 2L 2R	G564-MR 2L 2R	G670-GP 2	G688-EF 2	SPACE 2	G122-XV 2R G124-XV 2R
G258-GRP 3	G692-EF 3	G682-AHU 3	G542-AB 3	SPARE 3Ø A 3P 3L 3R	G602-SF 3R SPARE
G210-GRP 4	SPACE 4	G684-AHU 4		G244-GB 4	DP-G799 4
SPARE SIZE 2 5	10 KVAR CAPACITOR 5	20 KVAR CAPACITOR 5	G542-AB CAPACITOR 4		SPACE 5
SPACE 6	10 KVAR CAPACITOR 6		G244-GB CAPACITOR 5		

GENERAL NOTES:

- THIS DRAWING SUPERCEDES EXISTING DRAWING SEP-830. CLOUDED AREAS DENOTE NEW WORK.

SPECIFIC NOTES

- PROVIDE 400 AF, 300AT, 3P CUTLER HAMMER KD 25 KAIC CIRCUIT BREAKER. PROVIDE BLANK PLATES AS REQUIRED.



DESIGNED BY: EXISTING DRAWN BY: M.J. PERSSON SCALE: NTS DATE: 2014/06/27		CHECKED BY: E. RYCZKOWSKI APPROVED BY: E. RYCZKOWSKI ISSUED FOR CONSTRUCTION BY: E. RYCZKOWSKI DATE: 2014/06/27		CONSULTANT NO.: 474248		SOUTH END WATER POLLUTION CNETRE SEWPCC UPGRADING/EXPANSION PROJECT ELECTRICAL MCC ELEVATION GRIT BUILDING MCC-2G	
00 ISSUED FOR TENDER		06/2014 DB ER		SHEET 001		REV. 00 SIZE A1	