

GENERAL NOTES:

- MOTOR CONTROL CENTRE SCHEDULE EXISTING AND NOT VERIFIED FOR ACCURACY BY CONTRACTOR ADMINISTRATOR.
- THIS DRAWING SUPERSEDES EXISTING DRAWING NEP-1655.
- THE ENGINEER'S DESIGN RESPONSIBILITY IS LIMITED TO THE NEW WORK INDICATED BY THE CLOUDED PORTION OF THE DRAWING.

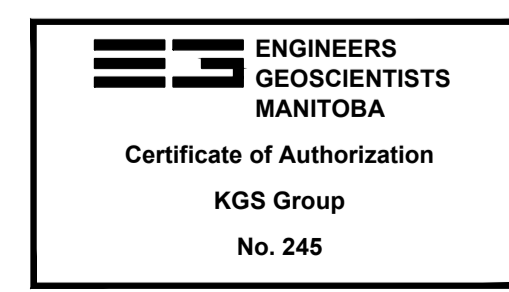
KEYNOTES:

- EXISTING SLUDGE PUMP #6 STARTER AND CABLING TO BE REUSED AND RECONNECTED TO NEW SLUDGE PUMP SKID. MEGER TEST CABLES PRIOR TO RECONNECTION.
- ELECTRICAL SUB CONTRACTOR TO TEST AND ENSURE PROPER OPERATION OF ALL NEW ELECTRICAL PRIOR TO COMMISSIONING.
- SWASH PLATE (W166-SWP) CABLING TO BE DEMOLISHED BACK TO SOURCE AND MADE SAFE. EXISTING MCC BUCKET TO BE TAGGED AS 'SPARE'.
- MCC FEEDS FDP-W6 MOTOR SUB PANEL WHICH IN TURN FEEDS MULTIPLE MOTORS. ELECTRICAL SUB CONTRACTOR TO FIELD VERIFY THE EXISTING CABLING BETWEEN FAN PANEL FDP-W6 AND SLUDGE PUMP SKID FAN IS 3C TECK90 CU, MINIMUM #14 AWG 1KV, PRIOR TO RECONNECTION.
- EXISTING FAN PANEL FOR ODD-NUMBERED SKIDS, LOCATED IN THE ELECTRICAL ROOM, HAS A DUPLICATED NAME WITH THE EXISTING FAN PANEL FOR EVEN-NUMBERED SKIDS, ALSO LOCATED IN THE ELECTRICAL ROOM.

SCHEDULE OF 600 VOLT MOTOR CONTROL CENTER NO. 2W																	
EQUIP. NO.	MOTOR DESCRIPTION	LOCATION	FLA	HP	KW	VOLT.	STARTER			FEEDER			CIRC. PROT		CONTROLS		REMARKS
							EEMAC SIZE	TYPE	UNIT NO.	CAPACITY IN AMPS	SIZE	TYPE	CONT. RATE	FRAME TYPE	AT MCC	AT MOTOR	
W120-SFP	Sludge feed pump No.2	104	15.3	15	11.2	575	--	BREAKER	F3-2B	45	3C#8AWG	TECK	40	MCP	RPL	LOS	TO VAR. FREQ. SPEED CONTROL
W122-CE	Centrifuge No.2	204	182	200	150	575	5	CMRVNR	F2-1	235	2-3C#4/0	TECK	400	MCP	RPL	LOS	WYE - DELTA STARTER
W123-BD	BACK DRIVE NO.2	204	41	25	20.5	500	--	BREAKER	F3-2A	85	3C#4AWG	TECK	50	FB			TO CONTROL CABINET & TRANSF
W124-LOP	Lube Oil Pump No.2	204	0.5	0.5	0.37	575	1	CMFVNR	F3-3	20	3C#12AWG	TECK	3	MCP	RPL	MAN DISC	
W027-CA	Cake Agitator No.2	104	19	15	11.2	575	2	CMFVNR	F3-4	45	3C#8AWG	TECK	50	MCP	RPL	LOS	
W125-CAP	Cake Pump No.2 Hyd. Power Pack	104	67.2	75	56	575	4	CMFVNR	F3-5	210	3C#3/0AWG	TECK	150	MCP	RPL	LOS	
W126-SWP	Swash Plate No.2	104	0.2	0.2	0.15	575	1	CMFVR	F8-1	20	3C#12AWG	TECK	3	MCP	RPL	MAN DISC	REVERSING STARTER
W422-SCA	Sludge Cake Auger 1B	203	7.8	7.5	5.5	575	1	CMFVNR	B1-4	20	3C#12AWG	TECK	15	MCP	RPL	LOS	
W140-SFP	Sludge feed pump No.4	104	15.3	15	11.2	575	--	BREAKER	F5-2B	45	3C#8AWG	TECK	40	MCP	RPL	LOS	TO VAR. FREQ. SPEED CONTROL
W142-CE	Centrifuge No.4	204	182	200	150	575	5	CMRVNR	F4-1	235	2-3C#4/0	TECK	400	MCP	RPL	LOS	WYE - DELTA STARTER
W143-BD	BACK DRIVE NO.4	204	41	25	20.5	500	--	BREAKER	F5-2A	85	3C#4AWG	TECK	50	FB			TO CONTROL CABINET & TRANSF
W144-LOP	Lube Oil Pump No.4	204	0.5	0.5	0.37	575	1	CMFVNR	F5-3	20	3C#12AWG	TECK	3	MCP	RPL	LOS	
W047-CA	Cake Agitator No.4	104	19	15	11.2	575	2	CMFVNR	F5-4	45	3C#8AWG	TECK	50	MCP	RPL	LOS	
W145-CAP	Cake Pump No.4 Hyd. Power Pack	104	67.2	75	56	575	4	CMFVNR	F5-5	210	3C#3/0AWG	TECK	150	MCP	RPL	LOS	
W146-SWP	Swash Plate No.4	104	0.2	0.2	0.15	575	1	CMFVR	F8-2	20	3C#12AWG	TECK	3	MCP	RPL	MAN DISC	REVERSING STARTER
W442-SCA	Sludge Cake Auger 2B	203	7.7	7.5	5.5	575	1	CMFVNR	B2-4	20	3C#12AWG	TECK	15	MCP	RPL	LOS	
W160-SFP	Sludge feed pump No.6	104	15.3	15	11.2	575	1	BREAKER	F7-2B	45	3C#8AWG	TECK	40	MCP	RPL	LOS	TO VAR. FREQ. SPEED CONTROL
W162-CE	Centrifuge No.6	204	182	200	150	575	5	CMRVNR	F6-1	235	2-3C#4/0	TECK	400	MCP	RPL	LOS	WYE - DELTA STARTER
W163-BD	BACK DRIVE NO.6	204	41	25	20.5	500	--	BREAKER	F7-2A	85	3C#4AWG	TECK	50	FB			TO CONTROL CABINET & TRANSF
W164-LOP	Lube Oil Pump No.6	204	0.5	0.5	0.37	575	1	CMFVNR	F7-3	20	3C#12AWG	TECK	3	MCP	RPL	MAN DISC	
W067-CA	Cake Agitator No.6	104	19	15	11.2	575	2	CMFVNR	F7-4	45	3C#8AWG	TECK	50	MCP	RPL	LOS	
HPP-W1560MTR	HPP-W1550 HYDRAULIC POWERPACK No.6 MAIN DRIVE	104	77	75	TBD	575	4	CMFVNR	F7-5	210	3C#3/0AWG	TECK	150	MCP	RPL	LOS	
W166-SWP	SWASH PLATE No.6	104	0.2	0.2	0.15	575	1	CMFVR	F8-3	20	3C#12AWG	TECK	3	MCP	RPL	MAN DISC	REVERSING STARTER
W462-SCA	Sludge Cake Auger 3B	203	7.8	7.5	5.5	575	1	CMFVNR	B3-4	20	3C#12AWG	TECK	15	MCP	RPL	LOS	
W220-PSF	Polymer Screw Feeder No.2	004	0.86	0.5	0.37	575	1	CMFVNR	B1-1	20	3C#12AWG	TECK	3	MCP	RPL	LOS	
W222-POB	Polymer Blower No.2	004	5.1	5	3.7	575	1	CMFVNR	B1-2	20	3C#12AWG	TECK	7	MCP	RPL	LOS	
W240-POM	Polymer Age Tank Mixer No.2	106	5.3	5	3.7	575	1	CMFVNR	B1-3	20	3C#12AWG	TECK	15	MCP	RPL	LOS	MIX AND AGE TANK W240
W224-PDC	Polymer Dust Collector	105	0.96	0.75	0.56	575	1	CMFVNR	B2-1	20	3C#12AWG	TECK	3	MCP	RPL	LOS	
W622-FN	Truck Bay H. Rate Exhaust	401	14.4	15	11.2	575	2	CMFVNR	B2-2	45	3 #8AWG	RW90	50	MCP	RPL	LOS	
W621-FN	Truck Bay High Rate	210	10.9	10	7.5	575	1	CMFVNR	B2-3	30	3 #10AWG	RW90	30	MCP	RPL	LOS	
W672-GP	Glycol Pump #1	210	16.2	15	11.2	575	2	CMFVNR	B3-1	45	3 #8AWG	RW90	50	MCP	RPL	LOS	
W671-HWP	Hot water Supply Pump #1	003	16.2	15	11.2	575	2	CMFVNR	B3-2	65	3 #6AWG	RW90	50	MCP	RPL	LOS	
W641-FN	Centrifuge Bldg. Backup Exh. Fan	303	14.4	15	11.2	575	2	CMFVNR	B3-3	45	3 #8AWG	RW90	50	MCP	RPL	LOS	
W540-SMP	Sump Pump No.2	005	1.6	1.5	1.2	575	1	CMFVNR	B4-1	20	3 #12AWG	RW90	7	MCP	RPL	LOS	
W681-AC	Air Compressor	210	30	30	22.5	575	3	CMFVNR	B5-2	85	3 #4AWG	RW90	100	MCP	RPL	LOS	
W663-WP	Well Pump	FIELD	11.4	10	7.5	575	1	CMFVNR	B4-2	45	3 #8AWG	TECK	50	MCP	RPL	LOS	To Pump Control Panel c/w Timer & Liquid Level Relay
	Transformer Breaker WEE1	206	--	--	--	600	--	--	B8-2	85	3 #4AWG	RW90	60	FB			
	Transformer WEE1	206	--	45KVA	--	600	--	--	B8-3	85	3 #4AWG	RW90	--	--			600-208/120V 3PH 4W
	Lighting Panel WEE1	206	--	--	--	208	--	--	B8-1	155	3 #1/0AWG	RW90	--	--			208/120V 3PH 4W 42 CCT PANEL
	Metering Compartment								F1-1								IQ DATA PLUS
W427-SCA	Sludge Cake Auger 1D	203	8.8	7.5	6.3	575	1	CMFVNR	B1-5	20	3C#12AWG	TECK	15	MCP	RPL	LOS	
W447-SCA	Sludge Cake Auger 2D	203	7.7	7.5	5.5	575	1	CMFVNR	B2-5	20	3C#12AWG	TECK	15	MCP	RPL	LOS	
W467-SCA	Sludge Cake Auger 3D	203	7.7	7.5	5.5	575	1	CMFVNR	B3-5	20	3C#12AWG	TECK	15	MCP	RPL	LOS	
W223-POM	Liquid Poly. Stor. Tank Mixer	006	5.3	5	3.7	575	1	CMFVNR	B4-4	20	3C#12AWG	TECK	15	MCP	RPL	LOS	
W221-POP	Liquid Polymer Feed Pump	006	0.66	0.5	0.37	575	1	CMFVNR	B5-1	20	3C#12AWG	TECK	3	MCP	RPL	LOS	
	Capacitors W122/142/162-CE				50KVA	575			B5-4								Contactors Shall Be Provided For Capacitors on W122-CE
	Capacitors W125/145/165-CAP				25KVA	575			B6-3								
	Spare					575			F3-1				50	FB			100A FRAME ADJUSTABLE TRIP
	Spare					575			F5-1				50	FB			100A FRAME ADJUSTABLE TRIP
	Spare					575			F7-1				50	FB			100A FRAME ADJUSTABLE TRIP
WE1	CDP Panel Breaker	206	200			575			B6-2	210	3 #3/0AWG	RW90	400	FB			Controls For Auxiliary Cooling Fans & PUMPS on MAIN HYDRAULIC PUMP UNITS
FDP-W6	Sludge Cake Pump Auxiliary Cooling Motor Panel #2	206				575		BREAKER	B4-3A	45	3C#8AWG	TECK	30	FB			



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1	1-0101-ECBD-W002	MCC LAYOUT - MCC-2W-A & B AND DETAILS
NO.	DRAWING NUMBER	REFERENCE DRAWING TITLE
		REFERENCE DRAWINGS



00	ISSUED FOR CONSTRUCTION	2026-04-02	
NO.	REVISIONS	DATE	DESIGN CHECK

KGS GROUP

DESIGNED BY: M. BERGEN
 CHECKED BY: C. ROBINSON

DRAWN BY: D. SHABATAEV
 APPROVED BY: C. ROBINSON

SCALE: NTS
 ISSUED FOR CONSTRUCTION BY:

DATE: 2026-04-02
 DATE:

CONSULTANT NO.: 25-0107-017_E5

ENGINEER'S SEAL

THE CITY OF WINNIPEG
 WATER AND WASTE DEPARTMENT

NORTH END SEWAGE TREATMENT PLANT (NEWPCC)
SLUDGE CAKE PUMP UPGRADE
ELECTRICAL
MCC-2W SCHEDULE

CITY DRAWING NUMBER: 1-0101-ESCH-W002
 SHEET: 00
 REV: A1
 SIZE: A1