

CCIW - MCC #1
LAMICOID NAME PLATES

CELL LOCATION	CELL LABEL	
	LINE 1	LINE 2
R1-1	MAIN LUGS	
R1-2	SOFAME BOILER	MAIN BREAKER
R1-3	SPACE	
R1-4	EMPTY	
R1-5	SPACE	
R2-2	SOFAME HOT WATER BOILER	SECONDARY PUMPS
R2-3	SPARE	
R2-4	MCC-101	MAIN BREAKER
R3-2	SOUTH IRRIGATION PUMP CONTACTOR	MAIN BREAKER
R3-3	30kVA TRANSFORMER	120/208V PANEL
R3-4	SPARE	
R3-5	CHVFD1	CHILLED WATER PUMP VFD #1
R3-6	CHVFD2	CHILLED WATER PUMP VFD #2
R4-2	COVFD2	CONDENSER WATER PUMP VFD #2
R4-3	COVFD1	CONDENSER WATER PUMP VFD #1
R4-4	SPACE	
R5-2	SPACE	
R5-3	PANEL "CF"	
R5-4	CONTROL ROOM	SYSTEM #9 AHU
R5-5	SPACE	
R6-2	CHILLER CT #1	COOLING TOWER #1 CONTROL PANEL
R6-3A	BOILER ROOM EF-4	
R6-3B	SPARE	
R6-4	CHILLER CT #2	COOLING TOWER #2 CONTROL PANEL
R6-5A	STEAM BOILER #2	
R6-5B	STEAM BOILER #1	
R6-6	SPARE	

Notes:
 1. All Cell Label lettering to be 0.25" in height, on a 2" x 2.5" lamicoïd plate.
 2. Provide new 4" x 8" lamicoïd plate that reads "MCC #1" with lettering to be 1" in height. Mount on front top Centre of MCC #1. (R3-1)
 3. Black background with white lettering.

CANADIAN GENERAL ELECTRIC - MCC #1 - 600A / 600V / 3PH / 3W
(ISOLATION ON 2ND FLOOR BOILER ROOM SUB-STATION B203 ON NEW BOILER SWITCHBOARD)

R1-1 INCOMING CABLE SECTION NOTE 1	R2-1 NOTE 1	R3-1 NOTE 1	R4-1 NOTE 1	R5-1 NOTE 1	R6-1 NOTE 1
R1-2 SOFAME BOILER MAIN BREAKER 100A BREAKER	R2-2 SOFAME BOILER SECONDARY PUMPS 100A BREAKER	R3-2 IRRIGATION PUMP CONTACTOR 100A BREAKER 100A CONTACTOR SIZE 1 FVNR	R4-2 COVFD2 CONDENSER WATER PUMP VFD #2 225A BREAKER	R5-2 SPACE NOTE 1	R6-2 CHILLER CT #1 COOLING TOWER #1 100A BREAKER
R1-3 SPACE	R2-3 SPARE 100A BREAKER	R3-3 30 kVA TRANSFORMER 120/208V PANEL 125A BREAKER 40A FUSES	R4-3 COVFD1 CONDENSER WATER PUMP VFD #1 225A BREAKER	R5-3 PANEL "CF" 30A BREAKER	R6-3A BOILER ROOM EF-4 20A DISC
		R3-4 SPARE 15A BREAKER SIZE 1 FVNR	R4-4 SPACE	R5-4 CONTROL ROOM SYSTEM #9 AHU 15A BREAKER / SIZE 1 FVNR	R6-3B SPARE 20A DISC
NOTE 1	R2-4 MCC-101 MAIN BREAKER 400A BREAKER	R3-5 CHVFD1 CHILLED WATER PUMP VFD #1 100A BREAKER	R5-5 ALLEN BRADLY VFD (TO BE REMOVED AS PART OF TENDER)	R6-4 CHILLER CT #2 COOLING TOWER #2 100A BREAKER	R6-5A BOILER #2 20A DISC
R1-4 SPACE	R3-6 CHVFD2 CHILLED WATER PUMP VFD #2 100A BREAKER	R3-6 CHVFD2 CHILLED WATER PUMP VFD #2 100A BREAKER			R6-5B BOILER #1 30A DISC
NOTE 1		NOTE 1	NOTE 1	NOTE 1	R6-6 SPARE 225A BREAKER
R1-5 SPACE	NOTE 1	NOTE 1	NOTE 1	NOTE 1	NOTE 1

NOTES:
 1. PROVIDE NEW BLANK FRONT COVER PLATE.
 2. PROVIDE NEW BREAKER IN FORMER SPACE.

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NRG JOB # 2301

NRG Consultants Inc.
 2 Cabriole Crescent Ancaster ON L9K 1K6
 Office: (905) 304-0294

PROJECT
 CANADA CENTRE FOR INLAND WATERS
 MOTOR CONTROL CENTRE UPGRADE
 867 LAKESHORE ROAD
 BURLINGTON ON L7S 1A1

ELECTRICAL - MCC #1
 EXISTING MCC #1, #2, #12, #13 & #14
 PROPOSED UPGRADES

No.	DATE	MADE	DESCRIPTION
0	2023/08/23	G.J.L.	ISSUED FOR TENDER
B	2023/08/09	G.J.L.	RE-ISSUED FOR REVIEW
A	2023/07/31	G.J.L.	ISSUED FOR REVIEW

REVISIONS/ADDENDA ISSUED

SCALE	DATE	DRAWN	CHECKED
N/A	2023/07/10	G.J.L.	S.C.S.

PROJECT No.	REV No.	DRAWING No.
1893	0	E01

CCIW - MCC #2
LAMICOID NAME PLATES

CELL LOCATION	CELL LABEL	
	LINE 1	LINE 2
R1-2	ALRF PUMP #3	
R1-3	ALRF CONDENSER #2	
R1-4	CONDENSER TRANSFER PUMP #1	
R1-5	CONDENSER TRANSFER PUMP #2	
R1-6	BOILER FEED PUMP #3	
R1-7	SPACE	
R2-1	MAIN LUGS	
R2-2	SPACE	
R2-3	BOILER FEED PUMP #1	
R2-4	BOILER FEED PUMP #2	
R2-5	MONORAIL	
R2-6	ALRF CHILLER #2	
R2-7	R.O. FEED WATER SPLITTER	
R2-8	SPACE	

Notes:

- All Cell Label lettering to be 0.25" in height, on a 2" x 2.5" lamicoïd plate.
- Provide new 4" x 8" lamicoïd plate that reads "MCC #2" with lettering to be 1" in height. Mount on front top Centre of MCC #2. (R2-1)
- Blue background with white lettering (Critical Power).

KLOCKNER-MOELLER - MCC #2 - 600A / 600V / 3PH / 3W
(ISOLATION ON 2ND FLOOR BOILER ROOM SUB-STATION
B203 ON CPP-2)

R1-1	R2-1	INCOMING CABLE SECTION
NOTE 1	NOTE 1	
R1-2 ALRF PUMP #3 15A BREAKER SET TO 12A SIZE 1 FVNR	R2-2 SPACE	
R1-3 ALRF CONDENSER #2 15A BREAKER SET TO 12A	NOTE 1	
R1-4 CONDENSATE TRANSFER PUMP #1 60A BREAKER SET TO 17.5A 15A FUSES	R2-3 BOILER FEED PUMP #1 60A BREAKER 15A FUSES SIZE 1 FVNR	
R1-5 CONDENSATE TRANSFER PUMP #2 15A BREAKER	R2-4 BOILER FEED PUMP #2 60A BREAKER 15A FUSES SIZE 1 FVNR	
R1-6 BOILER FEED PUMP #3 50A BREAKER 15A FUSES SIZE 1 FVNR	R2-5 MONORAIL 20A BREAKER	
R1-7 SPACE	R2-6 ALRF CHILLER #2 60A BREAKER	
NOTE 1	R2-7 R.O. FEED WATER SPLITTER 30A BREAKER	
NOTE 1	R2-8 SPACE	
NOTE 1	NOTE 1	
NOTE 1	NOTE 1	

REPLACE EXTERNAL VFD
600V (10HP)

NOTES:

- PROVIDE NEW BLANK FRONT COVER PLATE.
- PROVIDE NEW BREAKER IN FORMER SPACE.

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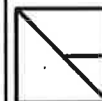
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PROJECT

CANADA CENTRE FOR INLAND WATERS
MOTOR CONTROL CENTRE UPGRADE
867 LAKESHORE ROAD
BURLINGTON ON L7S 1A1

ELECTRICAL - MCC #2
EXISTING MCC #1, #2, #12, #13 & #14
PROPOSED UPGRADES

No.	DATE	MADE	DESCRIPTION
0	2023/08/23	G.J.L.	ISSUED FOR TENDER
B	2023/08/09	G.J.L.	RE-ISSUED FOR REVIEW
A	2023/07/31	G.J.L.	ISSUED FOR REVIEW
REVISIONS/ADDENDA ISSUED			
SCALE	DATE	DRAWN	CHECKED
N/A	2023/07/10	G.J.L.	S.C.S.
PROJECT No.	REV No.	DRAWING No.	
1893	0	E02	

CCIW - MCC #12
LAMICOID NAME PLATES

CELL LOCATION	CELL LABEL	
	LINE 1	LINE 2
R1-1	MAIN LUGS	
R1-2	GLYCOL HEATING PUMP	SYSTEM #11
R1-3	CHILLED WATER PUMP	SYSTEM #11
R1-4	GLYCOL HEATING PUMP	SYSTEM #12
R1-5	AIR HANDLING UNIT-1 FAN	SYSTEM #11
R1-6	AIR HANDLING UNIT-2 FAN	SYSTEM #12
R1-7	CONDENSTATE PUMP	
R1-8	SPARE	
R1-9	SPARE	

Notes:

- All Cell Label lettering to be 0.25" in height, on a 2" x 2.5" lamicoïd plate.
- Provide new 4" x 8" lamicoïd plate that reads "MCC #12" with lettering to be 1" in height. Mount on front top Centre of MCC #12, (R1-1)
- Black background with white lettering.

KLOCKNER-MOELLER -
MCC #12 - 600A / 600V / 3PH / 3W
(ISOLATION ON 2ND FLOOR ECOTOX IN W230)

R1-1	INCOMING CABLE SECTION
NOTE 1	
R1-2	GLYCOL HEATING PUMP AHU-1 15A BREAKER SIZE 1 FVNR
R1-3	CHILLED WATER PUMP AHU-1 15A BREAKER SIZE 1 FVNR
R1-4	GLYCOL HEATING PUMP AHU-2 15A BREAKER SIZE 1 FVNR
R1-5	AIR HANDLING UNIT-1 FAN (SYSTEM 11) 30A BREAKER SIZE 1 FVNR
R1-6	AIR HANDLING UNIT-2 FAN (SYSTEM 12) 10A BREAKER / SIZE 1 FVNR
R1-7	CONDENSATE PUMP 15A BREAKER / SIZE 1 FVNR
R1-8	SPARE 15A BREAKER SIZE 1 FVNR
R1-9	SPARE SIZE 1 FVNR
NOTE 1	

REPLACE EXTERNAL VFD
600V (15HP)
LOCATED ON ROOF IN UNIT

REPLACE EXTERNAL VFD
600V (10HP)
LOCATED ON ROOF IN UNIT

NOTES:

- PROVIDE NEW BLANK FRONT COVER PLATE.
- PROVIDE NEW BREAKER IN FORMER SPACE.

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PROJECT

CANADA CENTRE FOR INLAND WATERS
MOTOR CONTROL CENTRE UPGRADE
867 LAKESHORE ROAD
BURLINGTON ON L7S 1A1

ELECTRICAL - MCC #12
EXISTING MCC #1, #2, #12, #13 & #14
PROPOSED UPGRADES

No.	DATE	MADE	DESCRIPTION
0	2023/08/23	G.J.L.	ISSUED FOR TENDER
B	2023/08/09	G.J.L.	RE-ISSUED FOR REVIEW
A	2023/07/31	G.J.L.	ISSUED FOR REVIEW

SCALE	DATE	DRAWN	CHECKED
N/A	2023/07/10	G.J.L.	S.C.S.
PROJECT No.	REV No.	DRAWING No.	
1893	0	E03	

CCIW - MCC #13
LAMICOID NAME PLATES

CELL LOCATION	CELL LABEL	
	LINE 1	LINE 2
R1-1	MAIN LUGS	
R1-2	SPACE	
R1-3	SPACE	
R1-4	SPACE	
R1-5	EXHAUST FAN #426	GENERAL EXHAUST
R1-6	EXHAUST FAN #427	GENERAL EXHAUST
R1-7	SPACE	
R1-8	SPACE	
R2-2	SPACE	
R2-3	SPACE	
R2-4	SPACE	
R2-5	SPARE	
R2-6	SPARE	
R2-7	SPACE	

- Notes:**
- All Cell Label lettering to be 0.25" in height, on a 2" x 2.5" lamicoïd plate.
 - Provide new 4" x 8" lamicoïd plate that reads "MCC #13" with lettering to be 1" in height. Mount on front top Centre of MCC #13. (R1-1)
 - Black background with white lettering.

KLOCKNER-MOELLER - MCC #13 - 600A / 600V / 3PH / 3W
(ISOLATION ON 2ND FLOOR ECOTOX IN W230)

R1-1	INCOMING CABLE SECTION	R2-1
NOTE 1		NOTE 1
R1-2 SPACE		R2-2 SPACE
NOTE 1		NOTE 1
R1-3 SPACE		R2-3 SPACE
NOTE 1		NOTE 1
R1-4 SPACE		R2-4 SPACE
NOTE 1		NOTE 1
R1-5 EXHAUST FAN #426 30A BREAKER		R2-5 SPARE 30A BREAKER SIZE 1 FVNR
NOTE 1		NOTE 1
R1-6 EXHAUST FAN #427 30A BREAKER		R2-6 SPARE 30A BREAKER SIZE 1 FVNR
NOTE 1		NOTE 1
R1-7 SPACE		R2-7 SPACE
NOTE 1		NOTE 1
NOTE 1		NOTE 1

REPLACE VFD (2HP)
WITH NEW 200-240V 3 PH

REPLACE VFD (5HP)
WITH NEW 200-240V 3 PH

- NOTES:**
- PROVIDE NEW BLANK FRONT COVER PLATE.
 - PROVIDE NEW BREAKER IN FORMER SPACE.

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PROJECT
CANADA CENTRE FOR INLAND WATERS
MOTOR CONTROL CENTRE UPGRADE
867 LAKESHORE ROAD
BURLINGTON ON L7S 1A1

ELECTRICAL - MCC #13
EXISTING MCC #1, #2, #12, #13 & #14
PROPOSED UPGRADES

No.	DATE	MADE	DESCRIPTION
0	2023/08/23	G.J.L.	ISSUED FOR TENDER
B	2023/08/09	G.J.L.	RE-ISSUED FOR REVIEW
A	2023/07/31	G.J.L.	ISSUED FOR REVIEW

SCALE	DATE	DRAWN	CHECKED
N/A	2023/07/10	G.J.L.	S.C.S.
PROJECT No.	REV No.	DRAWING No.	
1893	0	E04	

CCIW - MCC #14
LAMICOID NAME PLATES

CELL LOCATION	CELL LABEL	
	LINE 1	LINE 2
R1-1	MAIN LUGS	
R1-2	EF-431	W232
R1-3	EF-434	W246
R1-4	EF-435	W249
R1-5	EF-436	W248
R1-6	EF-432	W234
R1-7	EF-429	W247, W248
R2-2	EF-433	W250
R2-3	EF-428	W240
R2-4	EF-438	W250
R2-5	EF-439	W239, W250
R2-6	EF-440	GENERAL EXHAUST
R2-7	SPARE	

- Notes:**
- All Cell Label lettering to be 0.25" in height, on a 2" x 2.5" lamicoïd plate.
 - Provide new 4" x 8" lamicoïd plate that reads "MCC #14" with lettering to be 1" in height. Mount on front top Centre of MCC #14, (R1-1)
 - Black background with white lettering.

KLOCKNER-MOELLER - MCC #14 - 600A / 208V / 3PH / 3W
(ISOLATION ON R&D 3RD FLOOR SUBSTATION ON CPP-3)

REPLACE DRIVE
240V (2HP)

NOTE 3

REPLACE DRIVE
240V (2HP)

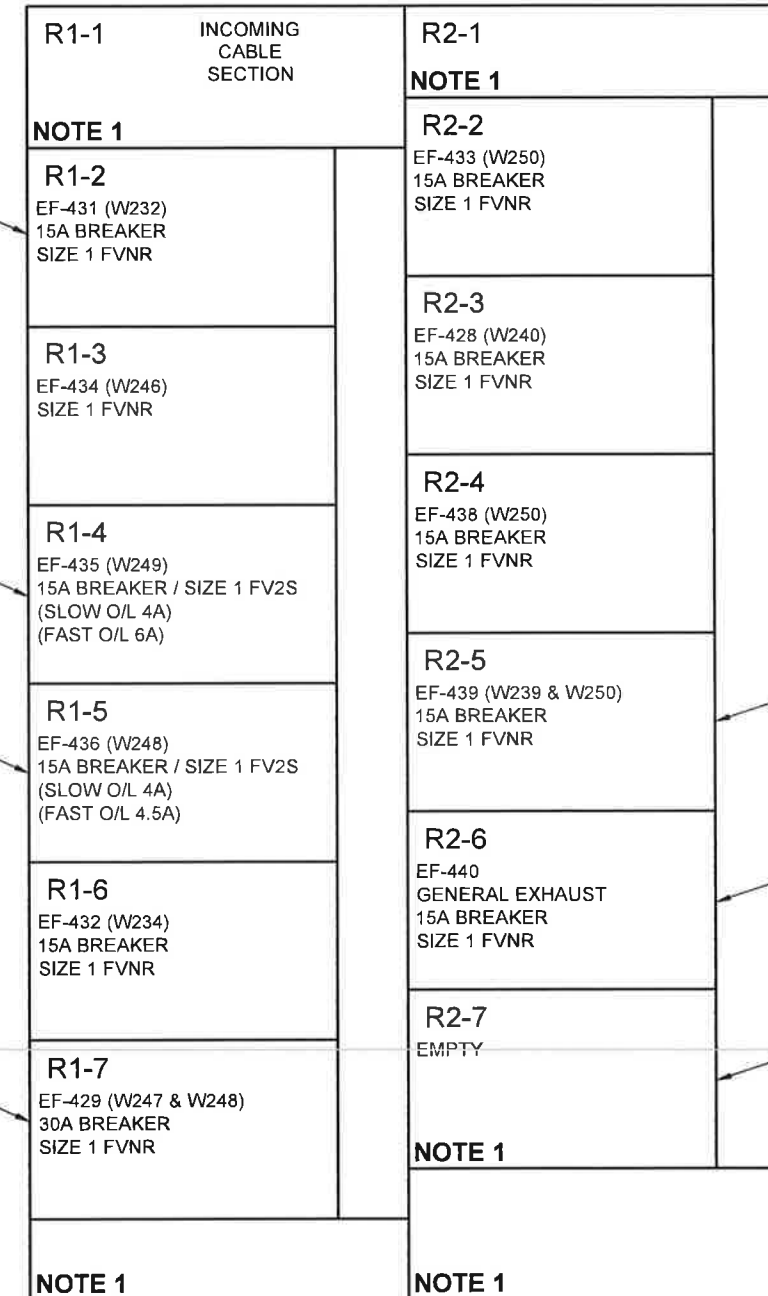
NOTE 3

REPLACE DRIVE
240V (2HP)

NOTE 3

REPLACE DRIVE
240V (2HP)

NOTE 3



REPLACE DRIVE
240V (2HP)

NOTE 3

REPLACE DRIVE
240V (2HP)

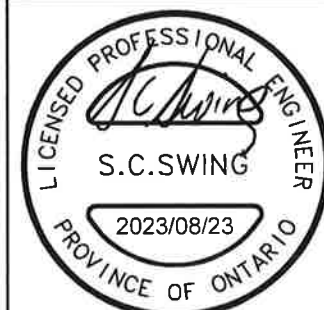
NOTE 3

ADD SPARE 15A BREAKER

- NOTES:**
- PROVIDE NEW BLANK FRONT COVER PLATE.
 - PROVIDE NEW BREAKER IN FORMER SPACE.
 - ALL VFD'S TO BE REPLACED ARE EXTERNAL.

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PROJECT
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MOTOR CONTROL CENTRE UPGRADE
867 LAKESHORE ROAD
BURLINGTON ON L7S 1A1

ELECTRICAL - MCC #14
EXISTING MCC #1, #2, #12, #13 & #14
PROPOSED UPGRADES

No.	DATE	MADE	DESCRIPTION
0	2023/08/23	G.J.L.	ISSUED FOR TENDER
B	2023/08/09	G.J.L.	RE-ISSUED FOR REVIEW
A	2023/07/31	G.J.L.	ISSUED FOR REVIEW

SCALE	DATE	DRAWN	CHECKED
N/A	2023/07/10	G.J.L.	S.C.S.
PROJECT No.	REV No.	DRAWING No.	
1893	0	E05	