

ELECTRICAL BOILER ROOM – NEW FLOOR PLANS

SCALE: 1:50

0m 1m 2m 3m 4m 5m

600V, 3-PHASE, 4-WIRE, 600A RATED MOTOR CONTROL CENTER, 'MCC #5E' TO REMAIN. MCC #5E IS A WESTINGHOUSE 'FIVE STAR' MOTOR CONTROL CENTER, SHOP ORDER #08B911227

MAIN BREAKER	4	10	16
	5	11	17
	6	12	18
1	7	13	19
2	8	14	
3	9	15	

EXISTING MCC #5E LAYOUT

SCALE: NTS

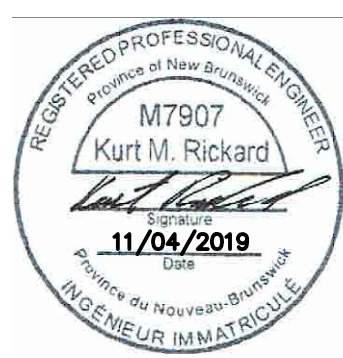
- 1 EXISTING OIL FIRED BOILER
- 2 EXISTING PUMP, CR-4
- 3 EXISTING PUMP, CR-3
- 4 EXISTING PUMP, CR-100
- 5 EXISTING PUMP, CR-1
- 6 EXISTING PUMP, CR-2

EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	LOAD	VOLTAGE	BREAKER	FEEDER	CIRCUIT	NOTES
T-1a	TEMPORARY ELECTRIC HOT WATER TANK	45.0 kW	600/3	60/3	#6/3C TECK90 ARMORED	PAN. 'DPC'	1,2,3,4
T-1b	TEMPORARY ELECTRIC HOT WATER TANK	45.0 kW	600/3	60/3	#6/3C TECK90 ARMORED	PAN. 'DPD'	1,2,3,4
T-1c	TEMPORARY ELECTRIC HOT WATER TANK	45.0 kW	600/3	60/3	#6/3C TECK90 ARMORED	PAN. 'DPD'	1,2,3,4
T-2a	TEMPORARY ELECTRIC HOT WATER TANK	54.0 kW	600/3	70/3	#4/3C TECK90 ARMORED	PAN. 'DPA'	1,2,3,4
T-2b	TEMPORARY ELECTRIC HOT WATER TANK	54.0 kW	600/3	70/3	#4/3C TECK90 ARMORED	PAN. 'DEPA'	1,2,3,4
T-2c	TEMPORARY ELECTRIC HOT WATER TANK	54.0 kW	600/3	70/3	#4/3C TECK90 ARMORED	PAN. 'DPA'	1,2,3,4
T-2d	TEMPORARY ELECTRIC HOT WATER TANK	54.0 kW	600/3	70/3	#4/3C TECK90 ARMORED	PAN. 'DPH'	1,2,3,4
T-2e	TEMPORARY ELECTRIC HOT WATER TANK	54.0 kW	600/3	70/3	#4/3C TECK90 ARMORED	PAN. 'DPH'	1,2,3,4
T-2F	TEMPORARY ELECTRIC HOT WATER TANK	54.0 kW	600/3	70/3	#4/3C TECK90 ARMORED	PAN. 'DPH'	1,2,3,4
CR-1	HOT WATER RETURN PUMP	5.6 kW	600/3	20/3	3#12RW90*#14BND, 3/4"	MCC#5E	1,2,4,7
CR-2	HOT WATER RETURN PUMP	5.6 kW	600/3	20/3	3#12RW90*#14BND, 3/4"	MCC#5E	1,2,4,7
CR-3	HOT WATER SUPPLY PUMP	18.7 kW	600/3	70/3	3#8RW90*#10BND, 1"	MCC#5E	1,2,4,7
CR-4	HOT WATER SUPPLY PUMP	18.7 kW	600/3	70/3	3#8RW90*#10BND, 1"	MCC#5E	1,2,4,7
DFF-1a	BOILER FUEL OIL SUPPLY PUMP	0.25 kW	120/1	15/1	2#12RW90*#14BND, 3/4"	EMA-18	1,2,3,6
DFF-1b	BOILER FUEL OIL SUPPLY PUMP	0.25 kW	120/1	15/1	2#12RW90*#14BND, 3/4"	EMA-20	1,2,3,6
B-1	HOT WATER BOILER	12.0 A	600/3	15/3	3#12RW90*#14BND, 3/4"	DEPG	1,2,4
B-2	HOT WATER BOILER	12.0 A	600/3	15/3	3#12RW90*#14BND, 3/4"	DEPG	1,2,4
BT-1	TEMPORARY BOILER PACKAGE	60 A	600/3	100/3	#3AWG 4C TECK CABLE	DPG	1,2,4
BT-2	TEMPORARY BOILER PACKAGE	60 A	600/3	100/3	#3AWG 4C TECK CABLE	DPG	1,2,4

NOTES:

- ALL UNITS TO HAVE DISCONNECT AT UNIT
- ALL FEEDERS TO HAVE GROUND CONDUCTORS
- DIRECT CONNECTION TO UNIT AS REQUIRED. COORDINATE ON SITE
- CONTRACTOR SHALL SUPPLY AND INSTALL NEW BREAKER IN EXISTING PANELBOARD AS REQUIRED. CONFIRM MANUFACTURER AND KA RATING OF EXISTING PANELBOARD ON SITE PRIOR TO ORDERING BREAKERS
- FEED FROM EXISTING MCC#5E. RE-USE EXISTING DISTRIBUTION BREAKERS WHERE POSSIBLE. PROVIDE NEW AS REQUIRED
- RE-USE EXISTING CIRCUIT BREAKER. RE-LABEL AS REQUIRED
- WIRE THROUGH MECHANICAL. SUPPLIED DISCONNECT SWITCH AND VARIABLE FREQUENCY DRIVE. COORDINATE WITH MECHANICAL FOR EXACT LOCATION AND REQUIREMENTS



0	ISSUED FOR TENDER	NOV 04 2019
revisions		date
project		project

**ATLANTIC INSTITUTE
HEATING PLANT UPGRADE**

**ELECTRICAL
BOILER ROOM
REVISIONS**

designed	KMR	conçu
date	NOVEMBER 2019	
drawn	KMR	dessiné
date	NOVEMBER 2019	
approved		approuvé
date		
Tender		Submission
PWOSC Project Manager	Administrateur de projets TPSC	
project number		no. du projet
	R.087698.001	
drawing no.		no. du dessin