

## Heat Recovery Units

<b>AIR HANDLING UNIT No.</b>	<b>HRU-3 &amp; HRU-4</b>			
<b>SERVICE AREA</b>	B-Section Low Rate Ventilation			
<b>MANUFACTURER</b>	Tempeff			
<b>MODEL</b>	RG 16000 (9500)			
<b>SUPPLY FAN - SIZE/TYPE</b>	GXLB-5-056			
<b>AIRFLOW RATE (cfm) (l/s)</b>	<b>9450</b>	4460		
<b>TOTAL STATIC REQUIRED (in.H<sub>2</sub>O) (Pa)</b>	<b>2.37</b>	592.50		
<b>EXTERNAL STATIC REQUIRED (in.H<sub>2</sub>O) (Pa)</b>	<b>1.00</b>	250.00		
<b>MOTOR (Bhp/Hp) (bkW/kW)</b>	<b>5.23</b>	<b>7.50</b>	3.90	5.59
<b>SPEED (rpm)</b>	1760			
<b>EXHAUST FAN - SIZE/TYPE</b>	GXLB-5-056			
<b>AIRFLOW RATE (cfm) (l/s)</b>	<b>9450</b>	4460		
<b>TOTAL STATIC REQUIRED (in.H<sub>2</sub>O) (Pa)</b>	<b>1.72</b>	430.00		
<b>EXTERNAL STATIC REQUIRED (in.H<sub>2</sub>O) (Pa)</b>	<b>1.00</b>	250.00		
<b>MOTOR (Bhp/Hp) (bkW/kW)</b>	<b>4.25</b>	<b>7.50</b>	3.17	5.59
<b>SPEED (rpm)</b>	1760			
<b>SUPPLY FILTER TYPE</b>	<b>Merv-8</b>			
<b>EXHAUST FILTER TYPE</b>	<b>Merv-8</b>			
<b>HEAT RECOVERY SECTION</b>				
<b>AIRFLOW (cfm) (l/s)</b>	<b>9450</b>	4460		
<b>SUMMER ENERGY RECOVERY (MBH) (kW)</b>	<b>118.80</b>	34.8		
<b>SUMMER RECOVERY FACTOR (%)</b>	<b>77.60</b>			
<b>SUMMER SUPPLY AIR TEMP. AFTER UNIT (°F) (°C)</b>	<b>78.40</b>	25.78		
<b>WINTER ENERGY RECOVERY (MBH) (kW)</b>	<b>928.13</b>	272.0		
<b>WINTER RECOVERY FACTOR (%)</b>	<b>87.30</b>			
<b>WINTER SUPPLY AIR TEMP. AFTER UNIT (°F) (°C)</b>	<b>58.64</b>	14.80		
<b>HEATING COIL</b>				
<b>SIZE, h x l (in) (mm)</b>	<b>37.5</b>	<b>72</b>	953	1829
<b>QUANTITY OF COILS</b>	<b>1</b>			
<b>MEDIUM</b>	55% Ethylene Glycol			
<b>ENTERING FLUID TEMP (°F) (°C)</b>	<b>170.0</b>	76.7		
<b>LEAVING FLUID TEMP. (°F) (°C)</b>	<b>130.0</b>	54.4		
<b>ENTERING AIR TEMP (°F) (°C)</b>	<b>58.0</b>	14.4		
<b>LEAVING AIR TEMP (°F) (°C)</b>	<b>90.0</b>	32.2		
<b>UNIT TOTAL LENGTH (in.) (mm)</b>	<b>255.8</b>	6496		
<b>UNIT TOTAL WIDTH (in.) (mm)</b>	<b>85.4</b>	2169		
<b>UNIT TOTAL HEIGHT (in.) (mm)</b>	<b>94.5</b>	2400		
<b>UNIT WEIGHT (lbs) (kg)</b>	<b>10495</b>	4760		



### Heat Recovery Unit Schedule

Project:	City of Winnipeg Fort Rouge Transit Service Bay & B-Section Ventilation Upgrade		
File:	14-194-01	Designer:	JTRH
Date:	Oct-15	Sheet:	<b>MS-1</b>

## Make Up Air Units

<b>UNIT No.</b>	<b>MUA-1</b>			
<b>SERVICE / LOCATION</b>	Service Bay South Section Ventilation			
<b>MANUFACTURER</b>	ICE			
<b>MODEL</b>	BMA 230			
<b>SUPPLY FAN - SIZE/TYPE</b>	VFC-2 32 Class K			
<b>TOTAL AIRFLOW RATE (l/s) (cfm)</b>	<b>31621</b>	67000		
<b>TOTAL STATIC REQUIRED (Pa) (in.)</b>	<b>600</b>	2.40		
<b>EXTERNAL STATIC REQUIRED (Pa) (in.)</b>	<b>250.0</b>	1.00		
<b>MOTOR (bkW/kW) (Bhp/Hp)</b>	<b>42.56</b>	<b>55.93</b>	57.08	75.00
<b>SPEED (rpm)</b>	1750			
<b>SUPPLY FILTER SECTION</b>	MERV 8			
<b>HEATING SECTION</b>	Direct Fired, Natural Gas			
<b>TEMPERATURE RISE (°F) (°C)</b>	<b>110</b>	61.11		
<b>BURNER CAPACITY OUTPUT (MBH) (kW)</b>	<b>8107</b>	2375.9		
<b>UNIT TOTAL LENGTH (in.) (mm)</b>	<b>214.6</b>	5451		
<b>UNIT TOTAL WIDTH (in.) (mm)</b>	<b>154.0</b>	3912		
<b>UNIT TOTAL HEIGHT (in.) (mm)</b>	<b>66.0</b>	1676		
<b>UNIT WEIGHT (lbs) (kg)</b>	<b>6217</b>	2820		
<b>UNIT ACCESSORIES</b>	- RIS vibration isolators			
	- Main electrical disconnect, non-fused, NEMA 3R with starter, overloads & control transformer			
	- Horizontal intake hood			
	- Bottom Discharge			
	- Remote panel mounted on wall in Service Bay in suitable location			
	- BACnet controller			
	- MB Deptment of Labour style interlock suitable for interlocking remote motorized dampers at roof			



	<b>Make Up Air Unit Schedule</b>		
Project:	City of Winnipeg Fort Rouge Transit Service Bay & B-Section Ventilation Upgrade		
File:	14-194-01	Designer:	JTRH
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## Make Up Air Units

UNIT No.	<b>MUA-2</b>			
SERVICE / LOCATION	Service Bay North Section Ventilation			
MANUFACTURER	ICE			
MODEL	BMA 122			
SUPPLY FAN - SIZE/TYPE	TFC 22/22 Class K			
TOTAL AIRFLOW RATE (l/s) (cfm)	<b>8023</b>	17000		
TOTAL STATIC REQUIRED (Pa) (in.)	<b>625</b>	2.50		
EXTERNAL STATIC REQUIRED (Pa) (in.)	<b>250.0</b>	1.00		
MOTOR (bkW/kW) (Bhp/Hp)	<b>10.37</b>	<b>14.91</b>	13.90	20.00
SPEED (rpm)	1750			
SUPPLY FILTER SECTION	MERV 8			
HEATING SECTION	<b>Direct Fired, Natural Gas</b>			
TEMPERATURE RISE (°F) (°C)	<b>110</b>	61.11		
BURNER CAPACITY OUTPUT (MBH) (kW)	<b>2057</b>	602.8		
UNIT TOTAL LENGTH (in.) (mm)	<b>157.1</b>	3991		
UNIT TOTAL WIDTH (in.) (mm)	<b>70.0</b>	1778		
UNIT TOTAL HEIGHT (in.) (mm)	<b>49.0</b>	1245		
UNIT WEIGHT (lbs) (kg)	<b>1603</b>	727		
UNIT ACCESSORIES	- RIS vibration isolators			
	- Main electrical disconnect, non-fused, NEMA 3R with starter, overloads & control transformer			
	- Horizontal intake hood			
	- Bottom Discharge			
	- Remote panel mounted on wall in Service Bay in suitable location			
	- BACnet controller			
	- MB Deptment of Labour style interlock suitable for interlocking remote motorized dampers at roof			



### Make Up Air Unit Schedule

Project:	<b>City of Winnipeg Fort Rouge Transit Service Bay &amp; B-Section Ventilation Upgrade</b>		
File:	14-194-01	Designer:	JTRH
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## Make Up Air Units

UNIT No.	MUA-3 & MUA-4			
SERVICE / LOCATION	Section-B High Rate Ventilation			
MANUFACTURER	ICE			
MODEL	BMA 118			
SUPPLY FAN - SIZE/TYPE	TFC 18/18 Class K			
TOTAL AIRFLOW RATE (l/s) (cfm)	4460	9450		
TOTAL STATIC REQUIRED (Pa) (in.)	625	2.50		
EXTERNAL STATIC REQUIRED (Pa) (in.)	250.0	1.00		
MOTOR (bkW/kW) (Bhp/Hp)	6.04	7.46	8.10	10.00
SPEED (rpm)	1750			
SUPPLY FILTER SECTION	MERV 8			
HEATING SECTION	Direct Fired, Natural Gas			
TEMPERATURE RISE (°F) (°C)	110	61.11		
BURNER CAPACITY OUTPUT (MBH) (kW)	1144	335.1		
UNIT TOTAL LENGTH (in.) (mm)	142.3	3613		
UNIT TOTAL WIDTH (in.) (mm)	66.0	1676		
UNIT TOTAL HEIGHT (in.) (mm)	49.6	1259		
UNIT WEIGHT (lbs) (kg)	1087	493		
UNIT ACCESSORIES	- RIS vibration isolators			
	- Main electrical disconnect, non-fused, NEMA 3R with starter, overloads & control transformer			
	- Horizontal intake hood			
	- End Discharge			
	- Roof Curb			
	- Remote panel mounted on wall in B-Section in suitable location			
	- BACnet controller			
	- MB Deptment of Labour style interlock suitable for interlocking remote motorized dampers at roof			

### Make Up Air Unit Schedule



Project:	City of Winnipeg Fort Rouge Transit Service Bay & B-Section Ventilation Upgrade		
File:	14-194-01	Designer:	JTRH
Date:	Oct-15	Sheet:	MS-2c

### Fans

FAN NO.	SERVICE	FAN TYPE	LOCATION	FAN MODEL	CAP. (cfm) (l/s)	E.S.P. (in. W.G.) (Pa)	SPD. (rpm)	MTR. (HP) (kW)	REMARKS
EF-1a	Service Bay South Section Cyclone CY-1 Exhaust	Greenheck	Roof	30-CSW-BI- 41-10-I-150	<b>17980</b> 8486	<b>0.75</b> 188	1215	<b>15.00</b> 11.19	Horizontal Discharge Aluminum 639 lb max weight
EF-1b	Service Bay South Section Cyclone CY-2 Exhaust	Greenheck	Roof	30-CSW-BI- 41-10-I-150	<b>18780</b> 8863	<b>0.75</b> 188	1215	<b>15.00</b> 11.19	Horizontal Discharge Aluminum 639 lb max weight
EF-1c	Service Bay South Section Exhaust Rails	Greenheck	Roof	USF-215-10-BI- 50	<b>4200</b> 1982	<b>1.50</b> 375	2543	<b>5.00</b> 3.73	Horizontal Discharge Steel 237 lb max weight
EF-1d	Service Bay South Section Misc. Exhaust	Greenheck	Roof	30-CSW-BI- 41-1-II-300	<b>26040</b> 12290	<b>0.75</b> 188	1598	<b>30.00</b> 22.37	Horizontal Discharge Aluminum 1,099 lb max weight Refer to Sep. Price 1
EF-2	Service Bay North Section Exhaust	Greenheck	Roof	30-CSW-BI- 41-10-I-100	<b>17000</b> 8023	<b>0.75</b> 188	1117	<b>10.00</b> 7.46	Horizontal Discharge Aluminum 535 lb max weight Refer to Sep. Price 1
EF-3	Section-B High Rate Ventilation Exhaust	Greenheck	Roof	USF-327-10-BI- 50	<b>9450</b> 4460	<b>1.00</b> 250	956	<b>5.00</b> 3.73	Horizontal Discharge Steel 719 lb max weight
EF-4	Section-B High Rate Ventilation Exhaust	Greenheck	Roof	USF-327-10-BI- 50	<b>9450</b> 4460	<b>1.00</b> 250	956	<b>5.00</b> 3.73	Horizontal Discharge Steel 719 lb max weight

#### Fan Schedule

Project: **City of Winnipeg Fort Rouge Transit**  
**Service Bay & B-Section Ventilation Upgrade**  
 File: 14-194-01                      Designer: JTRH  
 Date: Oct-15                              Sheet: **MS-3**



## Pumps

NO.	SERVICE	LOCATION	MODEL / SIZE	CAP. (gpm) (l/s)	HEAD (ft) (m)	MTR. (HP) (kW)	SPD. (rpm)	REMARKS
P-1	Glycol Heating Primary Loop	Mech Room	Armstrong 4380 0306-002.0	157 9.89	30 9.15	3 2.24	1750	IVS Sensorless Duty / Standby (w/ P-2) FTV-3FA Angle Flo-trex SG-43 Suction Guide
P-2	Glycol Heating Primary Loop	Mech Room	Armstrong 4380 0306-002.0	157 9.89	30 9.15	3 2.24	1750	IVS Sensorless Duty / Standby (w/ P-1) FTV-3FA Angle Flo-trex SG-43 Suction Guide
P-3	Glycol Heating Secondary Loop	Mech Room	Armstrong 4380 1506-003.0	46 2.90	70 21.34	3 2.24	3278	IVS Sensorless Duty / Standby (w/ P-4) FTV Angle Flo-trex SG-215TF Suction Guide
P-4	Glycol Heating Secondary Loop	Mech Room	Armstrong 4380 1506-003.0	46 2.90	70 21.34	3 2.24	3278	IVS Sensorless Duty / Standby (w/ P-3) FTV Angle Flo-trex SG-215TF Suction Guide
GFT-1	Glycol Fill	Mech Room	Axiom SF100-L	- 0.00	- 0.00	0.25 0.19	-	383 liter tank

Fluid: 55% Ethylene Glycol

### Pump Schedule



Project: **City of Winnipeg Fort Rouge Transit  
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 File: 14-194-01                      Designer: JTRH  
 Date: Oct-15                              Sheet: **MS-4**

**Expansion Tanks**

TANK NO.	TANK SERVICE	LOCATION	ACCEPTANCE VOLUME (Litres) (gallons)	MANUFACTURER MODEL	TANK SIZE			PRECHARGE PRESSURE	
					(mm) (inches)	DIA x HEIGHT		(kPa)	(psig)
ET-1	HEATING SYSTEM	MECH ROOM	<b>601.9</b> 159	EXTROL 600-L	<b>762</b> 30	<b>X</b> X	<b>1626</b> 64	<b>81</b>	<b>35</b>

**Buffer Tanks**

<b>TANK NO.</b>	<b>TANK SERVICE</b>	<b>LOCATION</b>	<b>VOLUME (Litres) (gallons)</b>	<b>MANUFACTURER MODEL</b>	<b>TANK SIZE (mm) (inches) DIA x HEIGHT</b>	<b>REMARKS</b>
BT-1	HEATING SYSTEM	MECH ROOM	393.7 104	AERCO 4-Port Buffer Tank	610 X 1486 24 X 58.5	6" FLG primary 4" FLG secondary



**Buffer Tank Schedule**

Project:	<b>City of Winnipeg Fort Rouge Transit Service Bay &amp; B-Section Ventilation Upgrade</b>	
File:	14-194-01	Designer: JTRH
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## Grilles, Registers and Diffusers

TYPE	MANUFACTURER	MODEL	BORDER	CORE	VOLUME CONT.	FRAME	FASTNG.	FINISH	REMARKS
S-1	EH Price	920D	-	-	Steel Damper	Std	A	B12	Sidewall Double Deflection Heavy Duty Grille
E-1	Plymovent	Flexhood	-	-	-	-	-	-	Modular Extration Hood c/w Welding Strips



### Grille, Register and Diffuser Schedule

Project: **City of Winnipeg Fort Rouge Transit  
Service Bay & B-Section Ventilation Upgrade**

File: 14-194-01      Designer: JTRH  
Date: Oct-15      Sheet: **MS-7**

# EQUIPMENT SCHEDULE



MOTOR/ EQUIP ID	NAME	LOCATION	H.P. (kW)	VOLTS	STARTER & ACC.				SOURCE	STARTER LOCATION	FEEDER	REMARKS
					MAN	MAG	PL	HOA				
B-1	Boiler	Mechanical Room Rm 004	10FLA	208V 3PH					LP-GT-61/62/63	N/A	3#12	
B-2	Boiler	Mechanical Room Rm 004	10FLA	208 3PH					LP-GT-64/65/66	N/A	3#12	
CP-1	Boiler Control Panel	Mechanical Room Rm 004		120V					LP-GT-70	N/A	2#12	
HT-1	Heat Trace for Boiler Condensate Drain	Mechanical Room Rm 004		120V 1 PH					LP-GT-69	N/A	2#12	Provide Tyco: 5XL1-CT Heat Trace, Rayclis-PC power connection kit c/w end seal, GT-66 tape, EC-TS thermostat. Provide 30mA GFCI breaker
P-1	Glycol Pump	Mechanical Room Rm 004	3 HP	600V 3PH					CDP-YY	VFD on pump	3#12	
P-2	Glycol Pump	Mechanical Room Rm 004	3 HP	600V 3PH					CDP-YY	VFD on pump	3#12	
P-3	Glycol Pump	Mechanical Room Rm 004	3 HP	600V 3PH					CDP-YY	VFD on pump	3#12	
P-4	Glycol Pump	Mechanical Room Rm 004	3 HP	600V 3PH					CDP-YY	VFD on pump	3#12	
GF-1	Glycol Fill Package	Mechanical Room Rm 004	0.7 FLA	120V 1 PH					LP-GT-67	N/A	2#12	Provide 5-15R receptacle for connection
EF-1a	Exhaust Fan	Roof	15 HP	600V 3PH		✓	✓	✓	MCC-XX	In MCC	3#8	Refer to Specification Section 25 10 10 for required interlocks
EF-1b	Exhaust Fan	Roof	15 HP	600V 3PH		✓	✓	✓	MCC-XX	In MCC	3#8	Refer to Specification Section 25 10 10 for required interlocks
EF-1c	Exhaust Fan	Roof	5 HP	600V 3PH		✓	✓	✓	MCC-XX	In MCC	3#12	Refer to Specification Section 25 10 10 for required interlocks
EF-1d	Exhaust Fan	Roof	30 HP	600V 3PH		✓	✓	✓	MCC-XX	In MCC	3#4	Refer to Specification Section 25 10 10 for required interlocks

# EQUIPMENT SCHEDULE



MOTOR/ EQUIP ID	NAME	LOCATION	H.P. (kW)	VOLTS	STARTER & ACC.				SOURCE	STARTER LOCATION	FEEDER	REMARKS
					MAN	MAG	PL	HOA				
EF-2	Exhaust Fan	Roof	10 HP	600V 3PH		✓	✓	✓	MCC-XX	In MCC	3#10	Refer to Specification Section 25 10 10 for required interlocks
EF-3	Exhaust Fan	Roof	5 HP	600V 3PH		✓	✓	✓	MCC-XX	In MCC	3#12	Refer to Specification Section 25 10 10 for required interlocks
EF-4	Exhaust Fan	Roof	5 HP	600V 3PH		✓	✓	✓	MCC-XX	In MCC	3#12	Refer to Specification Section 25 10 10 for required interlocks
HRU-3	Heat Recovery Unit	Roof	7.5HP SF 7.5HP EF	600V 3PH					CDP-YY	N/A	3#10	17.3 FLA, 30A OCP
HRU-4	Heat Recovery Unit	Roof	7.5HP SF 7.5HP EF	600V 3PH					CDP-YY	N/A	3#10	17.3 FLA, 30A OCP
MUA-1	Makeup Air Unit	Roof	75 HP	600V 3PH					CDP-YY	N/A	3#2/0	Refer to Specification Section 25 10 10 for required interlocks
MUA-2	Makeup Air Unit	Roof	20 HP	600V 3PH					CDP-YY	N/A	3#8	Refer to Specification Section 25 10 10 for required interlocks
MUA-3	Makeup Air Unit	Roof	10 HP	600V 3PH					CDP-YY	N/A	3#12	Refer to Specification Section 25 10 10 for required interlocks 10.25 FLA
MUA-4	Makeup Air Unit	Roof	10 HP	600V 3PH					CDP-YY	N/A	3#12	Refer to Specification Section 25 10 10 for required interlocks 10.25 FLA
CO/Nox Detection System	Gas Detection Control Panel	Main Floor outside electrical room.		120V 1 PH					LP-GT-68	N/A	2#12	Provide 120V for control transformer.
Mech Control Panel	Mechanical Control Panel	Room 006 Beside DDC panel		120V 1 PH					LP-GT-71	N/A	2#12	

PANEL: **LP-GT (Part 1)**  
 FED FROM: MAIN DISTRIBUTION

LOCATION: MECHANICAL ROOM 004  
 LOCATION: ELECTRICAL ROOM 001

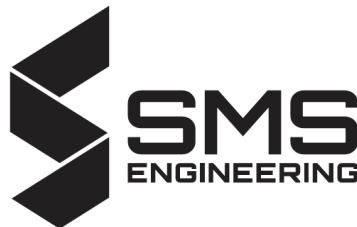
Designation	Load (VA)	Ckt. Trip	bkr. No.	Phase	Ckt. No.	bkr. Trip	Load (VA)	Designation
EXISTING LOAD			1	A	22			EXISTING LOAD
" "			2	B	23			" "
" "			3	C	24			" "
" "			4	A	25			" "
" "			5	B	26			" "
" "			6	C	27			" "
" "			7	A	28			" "
" "			8	B	29			" "
" "			9	C	30			" "
" "			10	A	31			" "
" "			11	B	32			" "
" "			12	C	33			" "
" "			13	A	34			" "
" "			14	B	35			" "
" "			15	C	36			" "
" "			16	A	37			" "
" "			17	B	38			" "
" "			18	C	39			" "
" "			19	A	40			" "
" "			20	B	41			" "
" "			21	C	42			" "

VOLTAGE: **120/208V, 3Ø, 4W**  
 CAPACITY: **400A**  
 MOUNTING: **SURFACE**  
 REMARKS:

LOADS - PH.A: 0  
 PH.B: 0  
 PH.C: 0  
 TOTAL: **0 NOT INCLUDING PART 2**

\*Note: New breakers feeding existing loads shall be sized to match existing breakers.

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**PANEL SCHEDULE  
 LP-GT (Part 1)**

PROJECT: Fort Rouge Transit Base Service Bay and B-Section Ventilation Upgrade  
 FILE: 15-194-01  
 DATE: 29-Oct-15

PANEL: **LP-GT (Part 2)**  
 FED FROM: MAIN DISTRIBUTION

LOCATION: MECHANICAL ROOM 004  
 LOCATION: ELECTRICAL ROOM 001

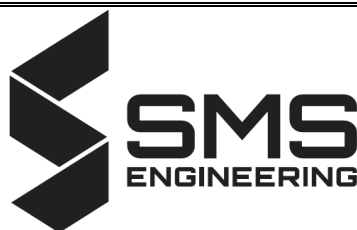
Designation	Load (VA)	Ckt. Trip	bkr. No.	Phase	Ckt. No.	bkr. Trip	Load (VA)	Designation
EXISTING LOAD			43	A	64		1200	BOILER B-2
" "			44	B	65	20A 3P	1200	" "
" "			45	C	66		1200	" "
" "			46	A	67	15A	100	RECEPTACLE - GLYCOL FILL PACKAGE MECH ROOM 004
" "			47	B	68	15A	400	GAS DETECTION CONTROLLER
" "			48	C	69	15A	600	HEAT TRACE - BOILER CONDENSATE (30mA GFI BREAKER)
" "			49	A	70	15A	300	BOILER CONTROL PANEL
" "			50	B	71	15A	400	MECHANICAL CONTROL PANEL
" "			51	C	72			
" "			52	A	73			
" "			53	B	74			
" "			54	C	75			
" "			55	A	76			
" "			56	B	77			
" "			57	C	78			
" "			58	A	79			
" "			59	B	80			
" "			60	C	81			
BOILER B-1	1200		61	A	82			
" "	1200	20A 3P	62	B	83			
" "	1200		63	C	84			

VOLTAGE: **120/208V, 3Ø, 4W**  
 CAPACITY: 400A  
 MOUNTING: SURFACE  
 REMARKS:

LOADS TOTAL PH.A 2800 NOT INCLUDING PART 1  
 TOTAL PH.B 3200 NOT INCLUDING PART 1  
 TOTAL PH.C 3000 NOT INCLUDING PART 1  
 TOTAL **9000** INCLUDING PART 1

\*Note: New breakers feeding existing loads shall be sized to match existing breakers.

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## PANEL SCHEDULE LP-GT (Part 2)

PROJECT: Fort Rouge Transit Base Service Bay and B-Section Ventilation Upgrade  
 FILE: 15-194-01  
 DATE: 29-Oct-15