



DESIGN INTENT NOTES	
1/	THE SPEED OF G687-EF IS CONTROLLED TO MAINTAIN A NEGATIVE PRESSURE IN THE SPACE, AS MEASURED BY G608-PDT.
2/	THE LIGHT SWITCH INDICATES WET WELL OCCUPANCY AND TURNS ON THE HIGHER RATE VENTILATION.
3/	DUCTING DESIGNED TO PROVIDE EFFECTIVE SCAVENGING OF THE WET WELL.
4/	VENTILATION FAILURE ALARM WILL ACTUATE THE GAS DETECTION ALARM HORN AND STROBE.

DESIGN VALUES:

	UPPER VOLUME		LOWER VOLUME	
	UNOCCUPIED	OCCUPIED	UNOCCUPIED	OCCUPIED
VOLUME:	360.4m <sup>3</sup>		904.0m <sup>3</sup>	
OUTDOOR AIR TEMP:	12 ACH	12 ACH	12 ACH	12 ACH
≥10°C	12 ACH	12 ACH	12 ACH	12 ACH
<10°C	6 ACH, 4°C	12 ACH, 4°C *	6 ACH	12 ACH

\* MINIMUM 4°C AT -40°C OUTDOOR TEMPERATURE. 10°C SETPOINT.

NOTES:

- ALL DEVICES SHOWN IN AN AUXILIARY LOCATION ARE IN A LOCAL CONTROL PANEL, UNLESS INDICATED OTHERWISE.
- THE WET WELL SPACE IS TO BE CLASSIFIED AS A HAZARDOUS CLASS 1, ZONE 1 LOCATION.



1-0102G-A0095	P & ID, WET WELL SUPPLY AND EXHAUST FANS, G602-SF, G686-EF, G687-EF
1-0102G-A0094	P & ID, WET WELL UPPER LEVEL HVAC, G601-SF
1-0102A-A0001	PROCESS & INSTRUMENT DIAGRAMS LEGEND & DETAILS
DRAWING NUMBER	REFERENCE DRAWINGS

NO.	REVISIONS	DATE	DESIGN	CHECK
01	ISSUED FOR TENDER, BID OPP. 42-2013	2013/01/15	TMC	CJR
00	ISSUED FOR TENDER, BID OPP. 545-2012	2012/10/11	TMC	CJR

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DATE: 2012/10/11  
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ENGINEER'S SEAL

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE  
VENTILATION & MISC. UPGRADES  
PROCESS & INSTRUMENTATION DIAGRAM  
WET WELL VENTILATION

CITY DRAWING NUMBER: 1-0102G-A0093  
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