



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	
	VOLUME: 360.4m ³		904.0m ³	
OUTDOOR AIR TEMP:	UNOCCUPIED	OCCUPIED	UNOCCUPIED	OCCUPIED
≥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.



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

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RELEASED FOR CONSTRUCTION BY: N. HARRINGTON
DATE: 2012/01/16
DATE: 2012/10/11
CONSULTANT NO.: 112577-0116-49DD-0193

ENGINEER'S SEAL

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

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

CITY DRAWING NUMBER: 1-0102G-A0093
SHEET: 001
REV: 00
SIZE: A1

DRAWING NUMBER	REFERENCE DRAWINGS
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