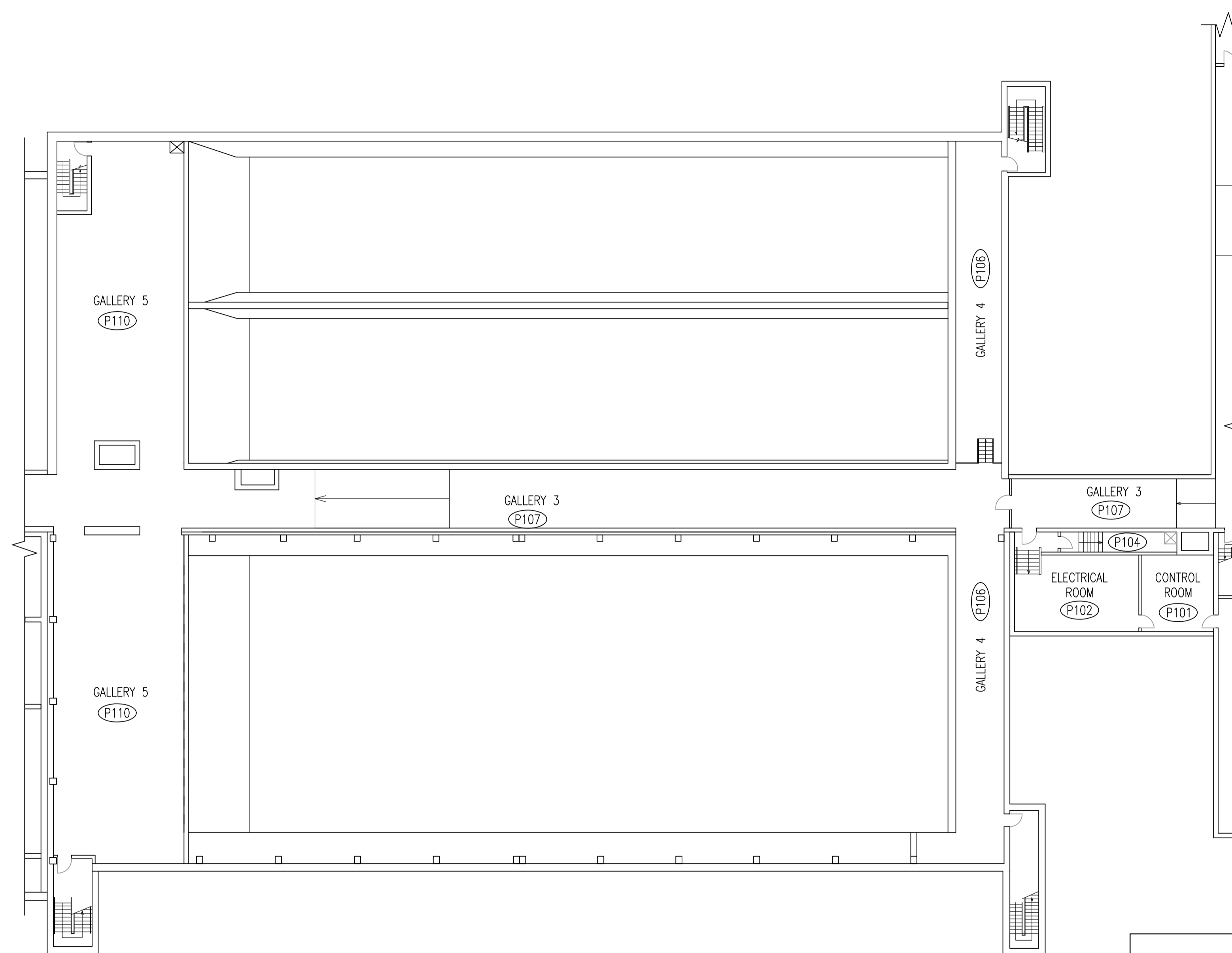


LEGEND

	HAZARDOUS CLASS I, ZONE 1, GROUP IIA
	HAZARDOUS CLASS I, ZONE 2, GROUP IIA
	CATEGORY 1 (MOISTURE)
	CATEGORY 2 (CORROSIVE)
	CATEGORY 2 WET (MOISTURE & CORROSIVE)



PRIMARY CLARIFIER - LOWER LEVEL

VENTILATION ANALYSIS

SPACE	OUTDOOR	VENTILATION TRANSFER	RETURN	PRESSURE	HEATED	VENT FAILURE DETECTION	NOTES
GALLERY 3, 4 & 5	3.2 ACH	-	-	POSITIVE	YES	YES	1
ELECTRICAL ROOM	2.1 ACH	-	14.6 ACH	POSITIVE	YES	YES	1
CONTROL ROOM	2.2 ACH	-	10.7 ACH	POSITIVE	YES	YES	1
SUMP ROOM	2.58 ACH	-	-	POSITIVE	YES	YES	1
STAIRWELLS	-	*	-	-	-	N/A	2

SPECIFIC NOTES:

1. THE EXISTING VENTILATION HAS BEEN SHOWN TO BE SUFFICIENT ENOUGH TO LIMIT THE MOISTURE IN THE SPACE TO LEVELS WHERE THE NORMAL OPERATION OF ELECTRICAL EQUIPMENT WILL NOT BE AFFECTED.
2. THE PRIMARY CLARIFIER TANK AREAS ARE VENTILATED WITH A NEGATIVE SPACE PRESSURE AND THE LOWER LEVEL AT A POSITIVE PRESSURE. THUS, LEAKAGE AIR FLOW IN THE STAIRWELLS WILL FLOW FROM THE LOWER LEVEL TO THE UPPER LEVEL. THE CURRENT LEVEL OF MOISTURE IN THE STAIRWELLS WILL NOT AFFECT THE NORMAL OPERATION OF ELECTRICAL EQUIPMENT.

NOTES:

1. THE INDICATED VENTILATION RATES ARE BASED ON EXISTING DOCUMENTATION AND HAVE NOT BEEN VERIFIED VIA ONSITE TESTING.



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SCALE: 1:200
DATE: 2009/11/06

CHECKED BY: C. REIMER
APPROVED BY: C. REIMER
RELEASED FOR CONSTRUCTION BY: N. HARRINGTON
DATE: 2011/03/31

CONSULTANT NO.: 112577-0113-47DD-1400

ENGINEER'S SEAL

ORIGINAL DRAWING
SEALED BY:
C. J. REIMER
SNC-LAVALIN
MEMBER #21968
2011/03/31
REV. 00

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT

SOUTH END WATER POLLUTION CONTROL CENTRE
ELECTRICAL CLASSIFICATION UPGRADES
ELECTRICAL CLASSIFICATION PLAN
PRIMARY CLARIFIER - LOWER LEVEL

CITY DRAWING NUMBER	SHEET	REV.	SIZE
1-0102P-E0013	001	00	A1

DRAWING NUMBER	REFERENCE DRAWINGS
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