



**DRAWING NOTES**

- ① EXHAUST AIR INTAKE RUNNING ALONG UNDERSIDE OF ROOF STRUCTURE. SIZE AS SHOWN.
- ② ALL SUPPLY AIR GRILLES TO BE DIRECTED UPWARDS.
- ③ PROVIDE SUPPORT FOR DUCTWORK ON WALKWAY BRACES.
- ④ SERVICE CLEARANCE FOR BOILERS.
- ⑤ TRANSITION DUCTWORK FROM STAINLESS STEEL TO FIBERGLASS WHEN ENTERING CLARIFIER. TYPICAL FOR SUPPLY AND RETURN DUCTWORK.
- ⑥ 200φ FLUE UP ABOVE ROOF LEVEL AND TERMINATE WITH RAIN CAP AND METAL FLASHING. CONFIRM ON-SITE EXACT HEIGHT OF CHIMNEY. TYPICAL FOR EACH BOILER.
- ⑦ TRANSITION 1200x900 EXHAUST AIR DUCT TO 1600x700. RUN AT LOW LEVEL.
- ⑧ 1200x900 SUPPLY AIR DUCT RUNNING BELOW EXHAUST AIR MAIN.
- ⑨ 1200x900 EXHAUST AIR DUCT RUNNING AT HIGH LEVEL. BROKEN FOR CLARITY.
- ⑩ 1200x900 OUTSIDE AIR INTAKE RUNNING BELOW EXHAUST AIR PLENUM.
- ⑪ 200φ COMBUSTION AIR INTAKE DOWN FROM ROOF LEVEL. TERMINATE WITH RAIN CAP AND METAL FLASHING. TYPICAL FOR EACH BOILER.
- ⑫ ALL DUCTWORK IN MECHANICAL ROOM TO BE 304L STAINLESS STEEL CONSTRUCTION.
- ⑬ ALL DUCTWORK IN THIS DIRECTION TO BE 304L STAINLESS STEEL CONSTRUCTION.
- ⑭ ALL DUCTWORK IN THIS DIRECTION TO BE FRP CONSTRUCTION.
- ⑮ ALL DUCTWORK INSIDE CLARIFIER TO BE FRP CONSTRUCTION.
- ⑯ 1200x900 BYPASS DUCT c/w MOTORIZED DAMPER TO GOOSENECK. TERMINATE GOOSENECK DISCHARGE SO AS TO AVOID CONTACT WITH CLARIFIER DOME.
- ⑰ OPEN-ENDED EXHAUST DUCT AT TOP OF DOME.
- ⑱ 300x300 INLET DUCT c/w WEATHER HOOD INTAKE COWL, MOTORIZED DAMPER, AIR FLOW PROVING SWITCH, FAN HOUSING AND GUARD. LOCATE UNIT AT HIGH LEVEL IN MECHANICAL ROOM.
- ⑲ 300x300 RELIEF AIR DUCT c/w BACK DRAFT DAMPER, 75mm STAINLESS STEEL METAL MESH ON INTAKE, AND COWL WITH BIRD SCREEN. LOCATE UNIT AT HIGH LEVEL IN MECHANICAL ROOM.

**GENERAL NOTES**

1. COORDINATE WITH OTHER TRADES SO AS TO PREVENT CONFLICTS.
2. ALL DUCTWORK SHALL BE SUPPORTED AND SUSPENDED AS PER SPECIFICATIONS AND LOCAL CODES. (SEE DETAILS)

**SECONDARY CLARIFIER 3 – VENTILATION PLAN**  
SCALE: 1:100



B.M. ELEV.			
DESIGNED BY	AB	CHECKED BY	PVL
DRAWN BY	DL	APPROVED BY	JEH
HOR. SCALE:	AS NOTED	RELEASED FOR CONSTRUCTION BY:	J. VEILLEUX
VERTICAL SCALE:			
NO.	ISSUED FOR TENDER	DATE	06/04/26
NO.	REVISIONS	DATE	BY
		2005/12/19	DC

**EarthTech**  
A Tyco International Ltd. Company

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HOR. SCALE:	AS NOTED	RELEASED FOR CONSTRUCTION BY:	J. VEILLEUX
VERTICAL SCALE:			
DATE	2005/12/19	DATE	2006/04/26

ENGINEER'S SEAL  
ORIGINAL SIGNED BY  
A. BURACHYNSKY  
2006/04/26  
CONSULTANT DRAWING NO.  
SM3.02

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

**WEWPCC**  
BIOLOGICAL NUTRIENT REMOVAL UPGRADE  
CONTRACT 3

MECHANICAL  
AREA S – SECONDARY CLARIFIER 3  
VENTILATION PLAN

CITY FILE NUMBER  
SHEET OF  
CITY DRAWING NUMBER