UNIT H	UNIT HEATER SCHEDULE							
TAG	SERVICE	POWER	AIRFLOW (L/s)	CAPACITY (kW)	VOLTS/PH	NOTES		
UH-L64	MECHANICAL ROOM	ELECTRIC	328	7.5	575/3	OUELLET OASU07536		

ELECTR	RIC DUC	T HEATER	HEATER SCHEDULE						
TAG	SERVICE	AIR FLOW (L/s)	SIZE (mm)	CAPACITY (kW)	VOLTS/PH	CONTROL	NOTES		
HCE-L63	SUPPLY	493	405 x 405	35.0 kW	575/3ø	0-10V	PRICE, TUBULAR ELEMENTS, SCR		

FA	FAN SCHEDULE							
	TAG	SERVICE	FLOW (L/s)	ESP (PA)	MOTOR (kW)	VOLTS/PH	DESCRIPTION	NOTES
SF-	-L62/FIL-L61	MECHANICAL ROOM COOLING	493	311	0.37	120/1	GREENHECK SQ-120-VG C/W FILTER	C/W SPEED ADJUSTING POTENTIOMETER, DIV 26 TO PROVIDE DISCONNECT

DAMPER SCHEDULE AIRFLOW BLADE SERVICE SIZE (mm) MOUNT ACTUATOR **DESCRIPTION** TYPE POSITION 0 - 10VDC, 24VAC, SPRING RETURN TAMCO 9000SC C/W BELIMO ACTUATOR OUTDOOR AIR 460 x 380 FLANGE TO DUCT FV-L600-1 CLOSED FLANGE TO DUCT FV-L600-2 MIXED AIR 405 x 405 LINKED TO FV-L600-3 OPPOSITE ACTING TO FV-L600-3 FV-L600-3 EXHAUST AIR 493 405 x 405 FLANGE TO DUCT 0 - 10VDC, 24VAC, SPRING RETURN CLOSED TAMCO 9000SC C/W BELIMO ACTUATOR

- EXIST. SUPPLY AIR DUCT

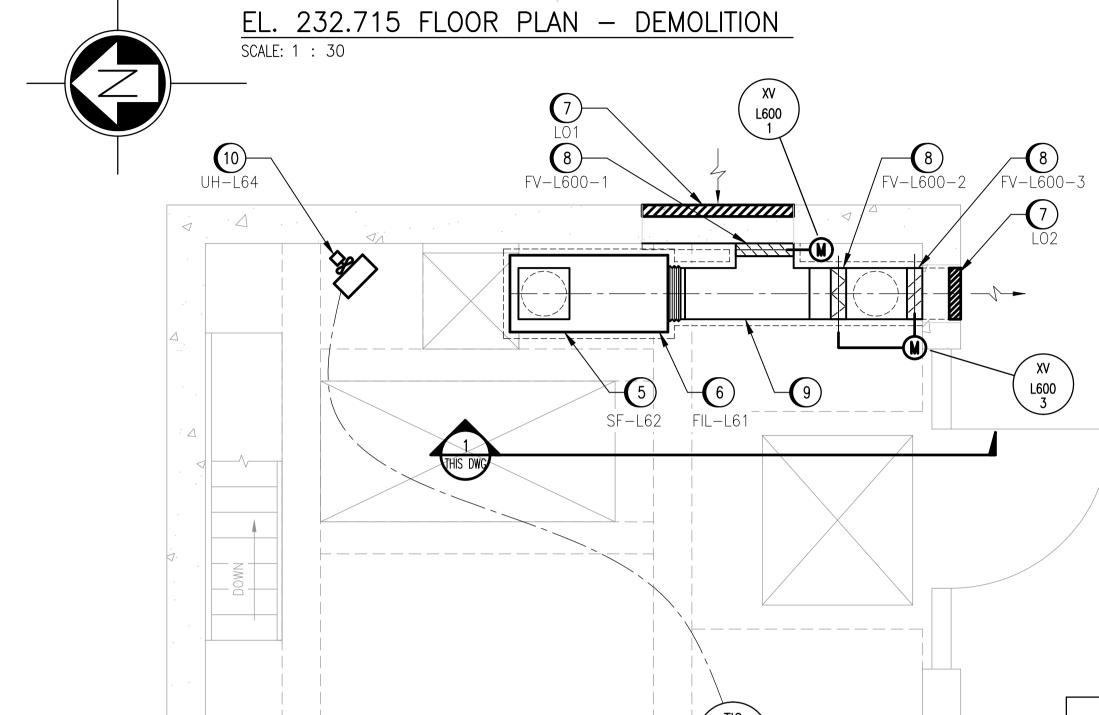
REMOVAL NOTES @ EL. 232.715: (1) REMOVE EXISTING FAN AND SUPPORTS. 2) REMOVE RETURN AIR DUCTWORK REMOVE SUPPLY DUCTWORK INCLUDING ELBOWS AND BALANCE DAMPERS. LEAVE VERTICAL SECTION OF SUPPLY DUCTWORK EXTENDING APPROXIMATELY 600mm ABOVE FLOOR IN PLACE. (4) COORDINATE WITH DIVISION 26 FOR

DISCONNECTION/REMOVAL OF ELECTRICAL EQUIPMENT.

SCALE: 1 : 30

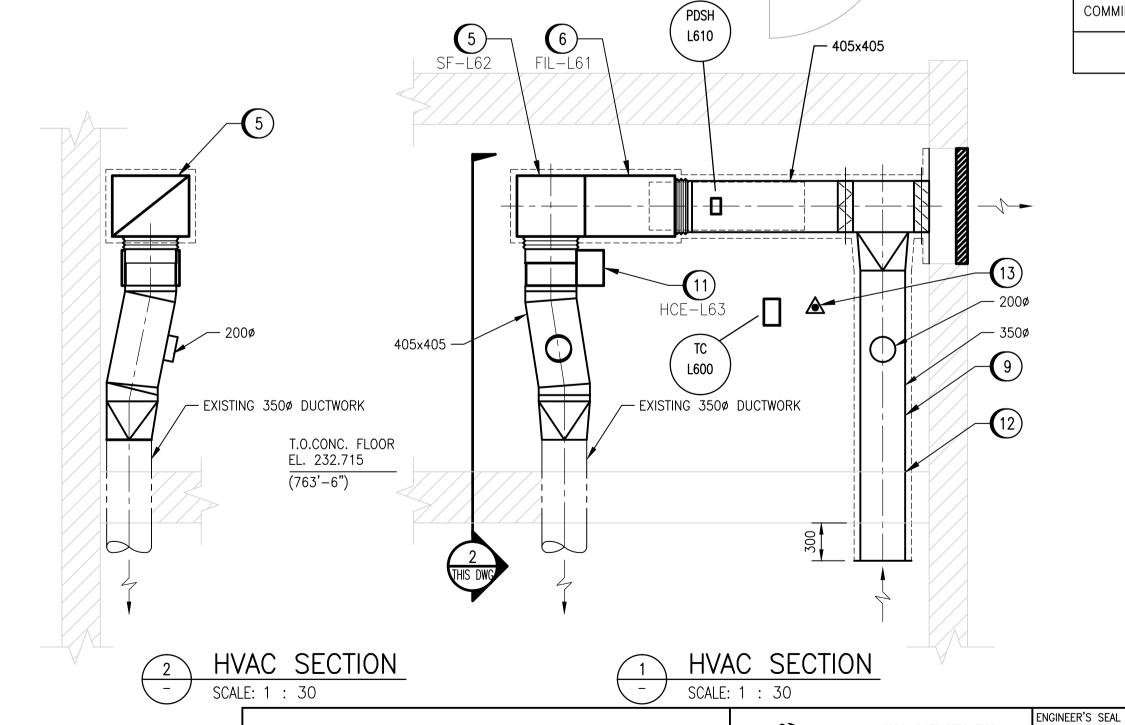
00 ISSUED FOR TENDER

NO. REVISIONS



L640

EL. 232.715 FLOOR PLAN - NEW WORK



LEGEND

FIRE EXTINGUISHER

— MOTORIZED DAMPER ACTUATOR INSULATED DUCTWORK

CONSTRUCTION NOTES:

- (5) SUPPLY AND INSTALL SUPPLY FAN.
- (6) SUPPLY AND INSTALL FILTER.
- (7) SUPPLY AND INSTALL LOUVERS.
- 8 SUPPLY AND INSTALL DAMPERS. COORDINATE WITH CONTROLS CONTRACTOR FOR INSTALLATION OF ACTUATORS.
- 9 SUPPLY AND INSTALL DUCTWORK. INSULATE WITH 50mm INSULATION WHERE SHOWN.
- (10) SUPPLY AND INSTALL UNIT HEATER.
- (11) SUPPLY AND INSTALL ELECTRIC DUCT HEATER.
- COORDINATE WITH CIVIL CONTRACTOR TO INCREASE SIZE OF FLOOR PENETRATION TO ACCOMMODATE NEW DUCTWORK. TERMINATE DUCT 300mm BELOW CEILING.
- SUPPLY AND INSTALL NEW PORTABLE FIRE EXTINGUISHERS ON WALL IN LOCATIONS SHOWN.

DESIGN CRITERIA:

THE BUILDING ENVIRONMENTAL CONTROL SYSTEMS SHOWN ON THESE DRAWINGS HAVE BEEN DESIGNATED TO THE REQUIREMENTS OF THE MANITOBA BUILDING CODE AND VENTILATED AT A MINIMUM OF 6 AIR CHANGES PER HOUR CONTINUOUS. WHEN THE STATION IS UNOCCUPIED, THE SYSTEM WILL CONTINUE TO PROVIDE 6 AIR CHANGES PER HOUR WITH 75% RECIRCULATED AIR. MORE SPECIFICALLY AS FOLLOWS:

> OUTDOOR CONDITIONS OF -33°C IN WINTER. - INDOOR CONDITIONS OF 15°C IN WINTER.

AREA	VOLUME (M³)	MIN. AIR CHANGES PER HOUR	MIN. AIRFLOW (L/s)
MAIN FLOOR	65.8	6	110
MOTOR ROOM	54.6	6	135
PUMP ROOM	77.5	6	130
COMMINUTOR MOTOR ROOM	61.6	6	58
COMMINUTOR CHAMBER	33.9	6	56
TOTAL	293.4	6	489

APEGIN Certificate of Authorization SNC-Lavalin Inc. No. 4489

PRELIMINARY

NOT TO BE

USED FOR

CONSTRUCTION

SNC-LAVALIN INC.

S. NORSWORTHY

ISSUED FOR CONSTRUCTION

148 Nature Park Way

APPROVED BY:

Winnipeg, MB, Canada R3P 0X7 204–786–8080

DESIGNED BY:

DRAWN BY:

2015/09/17 TS SSN CONSULTANT NO.:

DATE DESIGN CHECK

T. SCHICK

Y. KONIG

SCALE: AS NOTED

DATE: 2015/08/12

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT

OLIVE WASTEWATER PUMPING STATION 2015 UPGRADES HVAC PLAN AND SECTIONS

CITY DRAWING NUMBER SHEET | REV. | SIZE

1-0169L-M0001-001-00.dwg

1-0169L-M0001 001 | 00 | A1