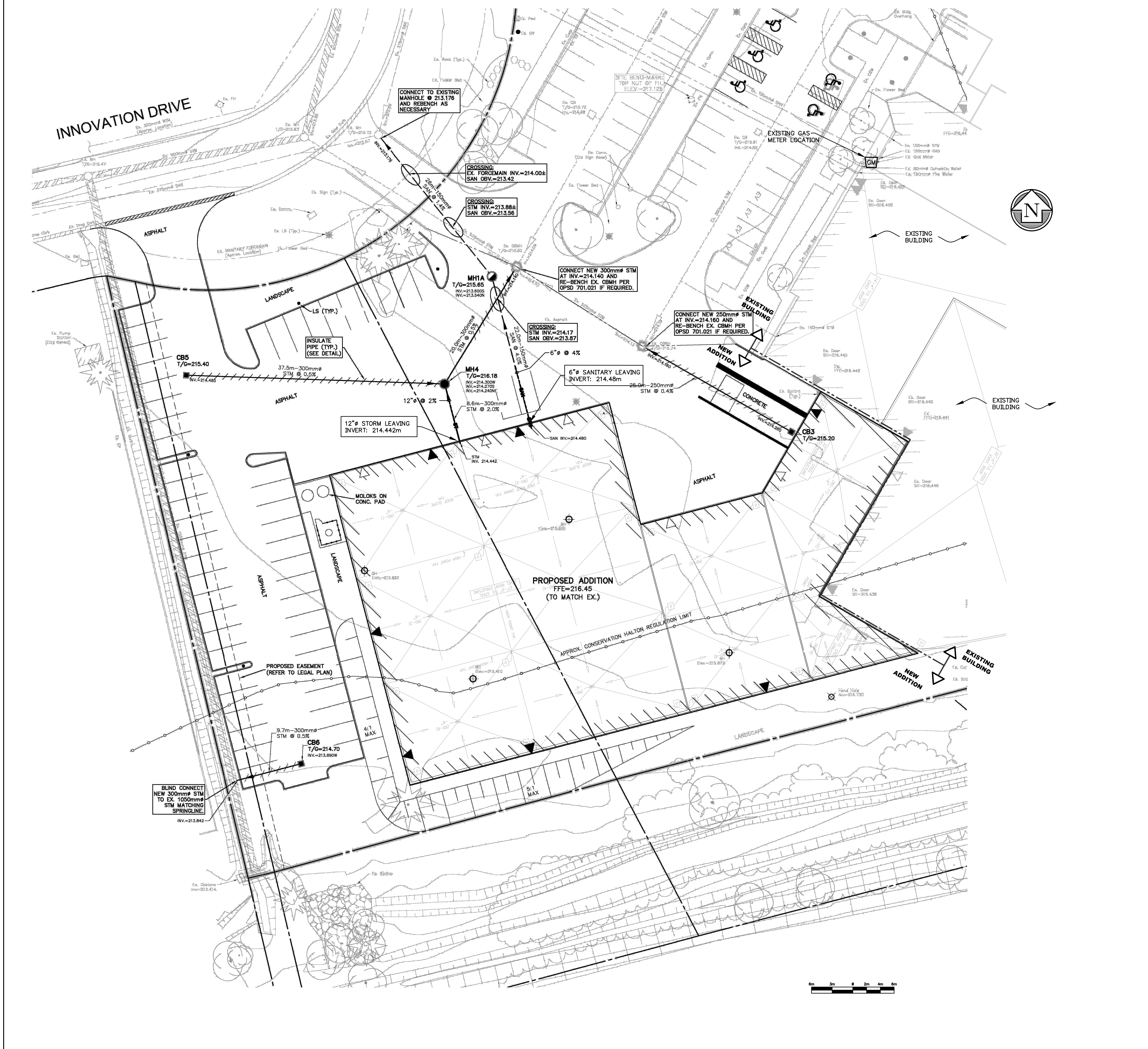


ASHRAE 62.1
VENTILATION SUMMARY

1. GENERAL MANUFACTURING (INCLUDING MEZZANINE)
50 PEOPLE
38021 SQ. FT.

Vbz = (38021 x 0.18 CFM/SQ.FT.) + (10 CFMP x 50)
= 7344 CFM
Vbz / Ez = 7344 / 0.8
= 9180 CFM
Vbz / Ev = 9180 / 1.0
= 9180 CFM REQUIRED

TOTAL 10,000 CFM SUPPLIED BY (14) HVAC UNITS
(714 CFM EACH)



MECHANICAL LEGEND	
LINES	
NEW	EXISTING TO REMAIN
EXISTING TO BE REMOVED	TEMPORARY WORK
CTE	CONNECT TO EXISTING
DOMESTIC COLD WATER	DOMESTIC HOT WATER
DOMESTIC RECIRCULATED WATER	STORM ABOVE GRADE
SANITARY ABOVE GRADE	STORM BURIED
SANITARY BURIED	VENT LINE
DRAIN LINE	GAS LINE
FIRE LINE	HOT WATER SUPPLY
HOT WATER RETURN	CHILLED WATER SUPPLY
CHILLED WATER RETURN	TRAP SEAL PRIMER LINE
20 LB AIR	100 LB AIR
HIGH PRESSURE COMP. AIR	15 PSI STEAM
CONDENSATE - 15 PSI	CONDENSATE
PUMPED CONDENSATE	
PIPING	
BALL VALVE	GLOBE VALVE
PNEUMATIC 2-WAY CONTROL VALVE	PNEUMATIC 3-WAY CONTROL VALVE
MOTORIZED 2-WAY CONTROL VALVE	MOTORIZED 3-WAY CONTROL VALVE
PRESSURE REDUCING VALVE	SAFETY RELIEF VALVE
AIR VENT	BUTTERFLY VALVE
GATE VALVE	CHECK VALVE
STRAINER	UNION
CIRCUIT BALANCING VALVE	FLANGED CONNECTION
CONCENTRIC REDUCER	ECCENTRIC REDUCER
PLUG CAP	CLEANOUT
ELBOW DOWN	ELBOW UP
BACKFLOW PREVENTOR	FLOOR DRAIN
FUNNEL FLOOR DRAIN	ROOF DRAIN
FIRE HOSE CABINET	FIRE EXTINGUISHER - 4A-60BC 10 lb
FIRE EXTINGUISHER WITH CABINET	RUNNING TRAP
HOSE BIBB	FIRE HYDRANT

HVAC	
PNEUMATIC THERMOSTAT	ELECTRIC THERMOSTAT
HUMIDISTAT	HEATING COIL
SILENCER	ACOUSTIC INSUL. FLEX DUCT
ACOUSTICALLY LINED DUCT	DUCT OFFSET
MOTORIZED DAMPER	BALANCE DAMPER
BACK DRAFT DAMPER	FIRE DAMPER
COMBINATION SMOKE/FIRE DAMPER	FIRE STOP FLAP
SPLITTER DAMPER	SUPPLY DUCT
EXHAUST/RETURN DUCT	FLEXIBLE ROUND DUCT
CAPPED END DUCT	DUCT REDUCER/ENLARGER
DUCT TRANSITION TO	SHAFT/DUCTWORK WORKING PRESSURE IN WG. (N=NEGATIVE)
AIR FLOW	250x200 GEN. EXHAUST AIR DUCT
350x300 GEN. EXHAUST AIR DUCT	TRANSFER AIR SLEEVE & SOFT FREE AREA
TRANSFER AIR SLEEVE & SOFT FREE AREA	DIFFUSER TYPE, NEOK & DUCT TO DIFFUSER SCHEDULE
ABBREVIATIONS	
AFF ARCH	AT MECH
AVG MECH	AD MEZZ
ABND MEZZ	B BEAM
BTU NORTH	BRZ THERMAL UNIT
BULD BRONZE	BY NOT TO SCALE
C CAP	CTR CROSS SECTION
CU FT CUBIC FEET PER MINUTE	CS COUNTER SINK
CB CATCH BASIN	CAO COMPRESSED AIR OUTLET
C/W COMPRESSOR COMPLETE WITH COMBO SMOKE/FIRE DAMPER	D DEGREE
DSO DOUBLE	DSM DUCT SMOKE DETECTOR
DR DRAIN	DWG DRAIN
DF DRINKING FOUNTAIN	DW DSH WASHER OR DRYWALL
DG DOOR GRILLE	E EACH
ELEV EAST	EMER EMERGENCY
ESH EMERGENCY SHOWER	ENG ENGINEER
ENS ENG. WASH STATION	E/A EXHAUST AIR
EXIST EXISTING	EXIST EXISTING
EMV EXISTING RELOCATED EMERGENCY MIXING VALVE	F FEET (FOOT)
FPM FEET PER MINUTE	FD FLOOR DRAIN
FD FIRE DAMPER	FL FLOOR
FL FIRE HOOK	FB FIRE BLANKET
FE FIRE EXTINGUISHER	G GALLON
GAL GALVANIZED	GEN GENERAL
GEA GENERAL EXHAUST AIR	H HEATER
HVAC HEATING, VENTILATING, & AIR-CONDITIONING	HP HORSEPOWER
HB HOSE BIBB	HW HOT WATER
INCH INVERT ELEVATION	J JANITOR SINK
JS JANITOR SINK	K KILOGRAM
KW KILOWATT	LAB LABORATORY
LAV LAVATORY (BARRIER-FREE)	LAT LAY-IN TILE CEILING
LEFT LEFT HAND	LI LIP SINK
LAU LAUNDRY TUB	US WATER CLOSET (BARRIER-FREE)
WC WATER CLOSET	WH WEST

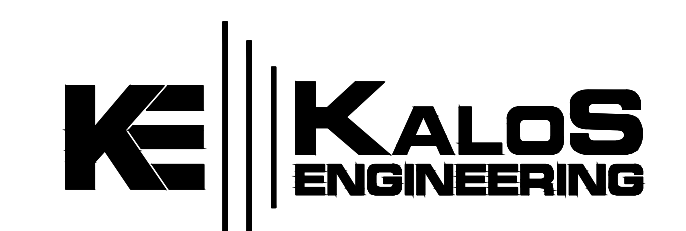
CONTROLS SYSTEM	
RESISTANCE BUILD TEMPERATURE SENSING ELEMENT C/W WELL	PRESSURE DIFFERENTIAL SWITCH
PRESSURE DIFFERENTIAL INDICATOR	TEMPERATURE CONTROL VALVE
TEMPERATURE TRANSMITTER	FLOW TRANSMITTER
FLOW CONTROL VALVE	LEVEL SWITCH
FLOW SWITCH	PRESSURE INDICATOR
PRESSURE INDICATOR WITH PRITAL ON MODULATING SERVICE - PRESS/MAIUM GAUGE	PRESSURE CONTROL VALVE
ISOLATING MOTORIZED DAMPER (2 POSITION)	CONTROL MOTORIZED DAMPER (MODULATING)
VARIABLE FREQUENCY SPEED DRIVE	PRESSURE SENSOR
PRESSURE TRANSMITTER	TEMPERATURE CONTROLLER
DEVICE LIMIT SWITCH	TEMPERATURE INDICATOR (DDV. 15)
TEMPERATURE RECORDER	TEMPERATURE SENSOR
METERING PUMP	LEVEL TRANSMITTER

MECHANICAL DRAWING LIST	
M0.01	SITE PLAN AND LEGENDS
M0.02	SCHEDULES
M0.03	SCHEDULES
M1.01	EXISTING BUILDING DRAINAGE PLAN
M1.02	EXISTING BUILDING HVAC PLAN
M1.03	EXISTING BUILDING ROOF PLAN
M1.04	ADDITION DRAINAGE PLAN
M1.05	ADDITION HVAC PLAN
M1.06	ADDITION ROOF PLAN
M1.07	ADDITION COMPRESSED AIR, ARGON GAS PLAN
P1.01	WASHROOM PLUMBING PLANS
M3.01	MECHANICAL DETAILS
M3.02	MECHANICAL DETAILS



Filer Engineering Ltd.
1046 Botanical Drive
Burlington, Ontario
L7T 1V1
Phone: (905) 526-7411
Project # F500

2	AUG. 20, 2026	ISSUED FOR PERMIT/TENDER
1	7/23/26	ISSUED FOR COMMENT
No.	DATE	REVISION



300 YORK BLVD. HAMILTON, ONTARIO L8R 3K6 905-333-9119

LIBURDI AUTOMATION INC.
PROPOSED
MANUFACTURING ADDITION

45 INNOVATION DRIVE
DUNDAS ONTARIO

SITE PLAN
AND LEGENDS

DATE JUNE 2025	DRAWN BY ARC	DRAWING No. M0.01
PROJECT No. 23185	CHECKED BY BP/DSF	