

For Tender
01/10/2014



Public Works and
Government Services
Canada

Travaux publics et services
gouvernementaux
Canada

Privy Council Office - Third Floor Blackburn Building

85 Spark Street, Ottawa, Ontario

Canada



Public Works and
Government Services
Canada

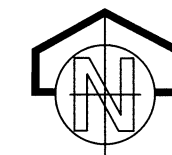
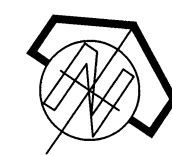
Travaux publics et
services gouvernementaux
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TRUE NORTH PROJECT NORTH

THIS DRAWING SHALL NOT BE USED
FOR CONSTRUCTION PURPOSES.

Contractor to verify all dimensions &
conditions on site and immediately notify
the engineer of all discrepancies.

0	FOR TENDER	14-10-01
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revisions	description	date
A	A detail no. no. du detail	
C	B location drawing no. sur dessin no.	
	C drawing no. dessin no.	

project

BLACKBURN BUILDING
THIRD FLOOR
WORKPLACE 2.0 FIT-UP

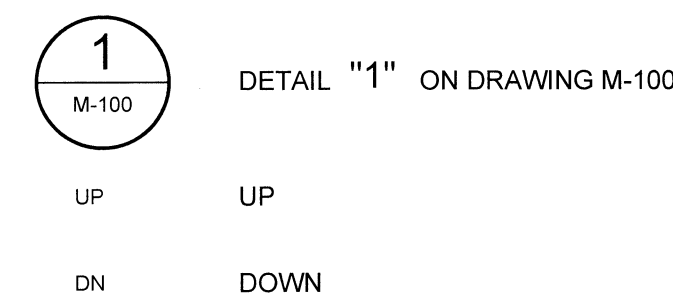
85 SPARK STREET, OTTAWA, ONTARIO

drawing

MECHANICAL
LEGEND,
SCHEDULES &
CONTROLS

Designed By	B. TREMBLAY	Conçu par
Date		(yyyy/mm/dd)
Drawn By	B. TREMBLAY	Dessiné par
Date		(yyyy/mm/dd)
Reviewed By	D. TREMBLAY	Examiné par
Date		(yyyy/mm/dd)
Approved By	F. LAFRAMBOISE	Approuvé par
Date		(yyyy/mm/dd)
Tender		Soumission
Project Manager	Administrateur de projets	
Project no.	No. du projet	
	R. 031559.083	
Drawing no.	No. du dessin	
	M-001	

GENERAL



INDICATION

DIRECTION

REVISION No: 1

ACCESSORIES IDENTIFICATION

EQUIPMENT IDENTIFICATION

PIPING DIAMETER

PIPING DIAMETER

EXISTING EQUIPMENT TO REMAIN
(ON DEMOLITION AND MODIFIED DRAWINGS)

EXISTING EQUIPMENT TO BE REMOVED OR RELOCATED
(ON DEMOLITION DRAWING)

EXISTING EQUIPMENT TO BE RELOCATED
(ON DEMOLITION DRAWING)

EXISTING EQUIPMENT RELOCATED
(ON MODIFIED DRAWING)

NEW EQUIPMENT (ON MODIFIED DRAWING)

NEW OR RELOCATED EQUIPMENT
(ON MODIFIED DRAWING)

PLUMBING

SANITARY DRAIN

VENT

DOMESTIC COLD WATER

DOMESTIC HOT WATER

DOMESTIC WATER RECIRCULATION

VALVES, CONNECTIONS AND ACCESSORIES

GATE VALVE

2 WAY PNEUMATIC CONTROL VALVE

PLUGGED CONNECTION

FIRE PROTECTION

RECESSED FIRE EXTINGUISHER
(SEE FIRE PROTECTION SCHEDULE)

FIRE EXTINGUISHER
(SEE FIRE PROTECTION SCHEDULE)

FIRE HOSE CABINET C/W FIRE EXTINGUISHER
(SEE FIRE PROTECTION SCHEDULE)

VENTILATION AND AIR CONDITIONING

RECTANGULAR DUCT

ROUND DUCT

FLAT OVAL DUCT (OV)

FLEXIBLE DUCT

BALANCING DAMPER

SMOKE DAMPER

SPLITTER DAMPER

EXTRACTING DAMPER

DUCT SIZE
FIRST NUMBER IS THE VISIBLE SIDE

SQUARE OR RECTANGULAR
REDUCER

ELBOW C/W TURNING VANES

LINEAR DIFFUSER

SUPPLY DIFFUSER

RETURN GRILLE

AIR TRANSFER DUCT

ELBOW C/W TURNING VANES

RETURN GRILLE

AIR TRANSFER DUCT

CONTROLS

PNEUMATIC THERMOSTAT

ZONE SENSOR

GRILLES & DIFFUSERS IDENTIFICATION

SAME TYPE OF ACCESSORIES
IDENTIFIED BY SAME
IDENTIFICATION

AIR FLOW RATE

GRILLE OR DIFFUSER MODEL
(SEE GRILLE & DIFFUSER LIST)

EQUIPMENT IDENTIFICATION

TRANSFER FAN

VARIABLE AIR VOLUME BOX

FAN COIL UNIT

LIFT PUMP

GRILLES AND DIFFUSERS SCHEDULE

IDENTIFICATION	STANDARD OF ACCEPTANCE MANUFACTURER - MODEL	MOUNTING	NO. OF SLOTS	FINISH	DIMENSIONS				NOTES
					SLOT WIDTH mm	LENGTH mm	WIDTH mm	NECK mm	
SUPPLY DIFFUSERS									
S1	SQUARE PLAQUE DIFFUSER	T-BAR	-	WPC	-	610	610	SEE DWG	1
S2	LINEAR SLOT DIFFUSER WITH PLENUM	T-BAR	1	WPC	25	1220	46	125 Ø	1.4
S3	LINEAR SLOT DIFFUSER WITH PLENUM	T-BAR	2	WPC	25	1220	90	180 Ø	1.4
S4	FIRE RATED LINEAR SLOT DIFF. WITH PLENUM	T-BAR	1	WPC	12	1220	38	150 Ø	1.2
X	EXISTING	T-BAR	-	-	-	-	-	-	-
RETURN GRILLES									
R1	EGGGRATE FACE RETURN	T-BAR	-	WPC	-	610	150	-	1
R2	LINEAR SLOT RETURN - NO PLENUM	T-BAR	1	WPC	25	1220	46	-	1.2
R3	EGG GRATE FACE RETURN	DUCT	-	-	-	250	250	-	5
NOTE(S):									
1. NEW DIFFUSER OR GRILLE TO BE SUPPLIED AND INSTALLED. SEE SPECIFICATIONS FOR DESCRIPTION.									
2. C/W FIRE DAMPER AND BLANKET.									
3. "X" REPRESENT AN EXISTING DIFFUSER THAT IS REUSED AND RELOCATED IN THE NEW LAYOUT. SEE MODIFIED DRAWING FOR ITS NEW POSITION.									
4. SUPPLY A PLENUM WITH A MAXIMUM HEIGHT OF 305mm.									
5. 32mm FLAT BORDER.									
WPC: WHITE POWDER COAT FINISH.									

VAV BOXES SCHEDULE

IDENTIFICATION	STANDARD OF ACCEPTANCE MANUFACTURER - MODEL	SIZE	SUPPLY ROOM #	AIR FLOW		INLET Ø mm	DUCT SIZE mm	NOTES
				MINIMUM L/s	MAXIMUM L/s			
VAV-01	E.H. PRICE - SPV - EXISTING	-	301	45	100	-	-	1
VAV-02	NEW	5		45	100	150Ø	300x200	2.3.4
VAV-03	EH PRICE "SPV" - EXISTING	-		80	200	-	-	1
VAV-04	EH PRICE "SPV" - EXISTING	-		80	200	-	-	1
VAV-05	NEW	6	302	45	150	150Ø	300x200	2.3.4
VAV-06	EH PRICE "SPV" - EXISTING	-		60	150	-	-	1
VAV-07	EH PRICE "SPV" - EXISTING	-		30	50	-	-	1
VAV-08	NEW	4		35	80	100Ø	300x200	2.3.4
VAV-09	EH PRICE "SPV" - EXISTING	-	303	80	200	-	-	1
VAV-10	EH PRICE "SPV" - EXISTING	-		80	200	-	-	1
VAV-11	EH PRICE "SPV" - EXISTING	-		38	96	-	-	1
VAV-12	EH PRICE "SPV" - EXISTING	-		80	200	-	-	1
VAV-13	EH PRICE "SPV" - EXISTING	-	304	80	200	-	-	1
VAV-14	EH PRICE "SPV" - EXISTING	-		80	200	-	-	1
VAV-15	EH PRICE "SPV" - EXISTING	-		80	200	-	-	1
VAV-16	E.H. PRICE "SPV" - RELOCATED	-		50	123	-	-	1
VAV-17	EH PRICE "SPV" - EXISTING	-	305	80	200	-	-	1
VAV-18	EH PRICE "SPV" - EXISTING	-		80	210	-	-	1
VAV-19	E.H. PRICE "SPV" - RELOCATED	-		0	25	-	-	1
VAV-20	EH PRICE "SPV" - EXISTING	-		30	60	-	-	1
VAV-21	NEW	6	307	45	156	150Ø	300x200	2.3.4
VAV-22	EH PRICE "SPV" - EXISTING	-		308	35	70	-	1
VAV-23	E.H. PRICE "SPV" - RELOCATED	-		309	35	70	-	1
VAV-24	NEW	4		0	25	100Ø	300x200	2.3.4
VAV-25	E.H. PRICE "SPV" - RELOCATED	-	310	38	90	-	-	1
VAV-26	EH PRICE "SPV" - EXISTING	-		50	120	-	-	1
VAV-27	EH PRICE "SPV" - EXISTING	-		50	130	-	-	1
VAV-28	EH PRICE "SPV" - EXISTING	-		50	130	-	-	1
VAV-29	EH PRICE "SPV" - EXISTING	-	311	45	90	-	-	1
VAV-30	EH PRICE "SPV" - EXISTING	-		50	130	-	-	1
VAV-31	EH PRICE "SPV" - EXISTING	-		50	130	-	-	1
VAV-32	EH PRICE "SPV" - EXISTING	-		50	130	-	-	1
VAV-33	EH PRICE "SPV" - EXISTING	-	312	38	90	-	-	1
VAV-34	EH PRICE "SPV" - EXISTING	-		50	130	-	-	1
VAV-35	EH PRICE "SPV" - EXISTING	-		38	90	-	-	1
VAV-36	EH PRICE "SPV" - EXISTING	-		50	130	-	-	1
VAV-37	E.H. PRICE "SPV" - RELOCATED	-	313	45	100	-	-	1
VAV-38	EH PRICE "SPV" - EXISTING	-		45	100	-	-	1
VAV-39	EH PRICE "SPV" - EXISTING	-		35	70	-	-	1
VAV-40	EH PRICE "SPV" - EXISTING	-		35	70	-	-	1
VAV-41	E.H. PRICE - RELOCATED	-	300	0	38	-	-	1
VAV-42	EH PRICE "SPV" - EXISTING	-		0	38	-	-	1
VAV-43	EH PRICE "SPV" - EXISTING	-		0	38	-	-	1
VAV-44	EH PRICE "SPV" - EXISTING	-		0	40	-	-	1

NOTE(S):

- MODEL AND MANUFACTURER SHOWN IN SCHEDULE ARE OF THE EXISTING EQUIPMENT IN PLACE.
- NOISE CRITERIA MAX. NC 25.
- UNIT CONTROLS ACCESSORIES : PNEUMATIC ACTUATOR, CONTROLLER TO BE THE SAME AS EXISTING.
- NEW V.A.V. TERMINAL BOX (SQUARE BOX WITH DAMPER TYPE) WITH PNEUMATIC CONTROLS. SEE SPECIFICATIONS

AIR TRANSFER FAN SCHEDULE

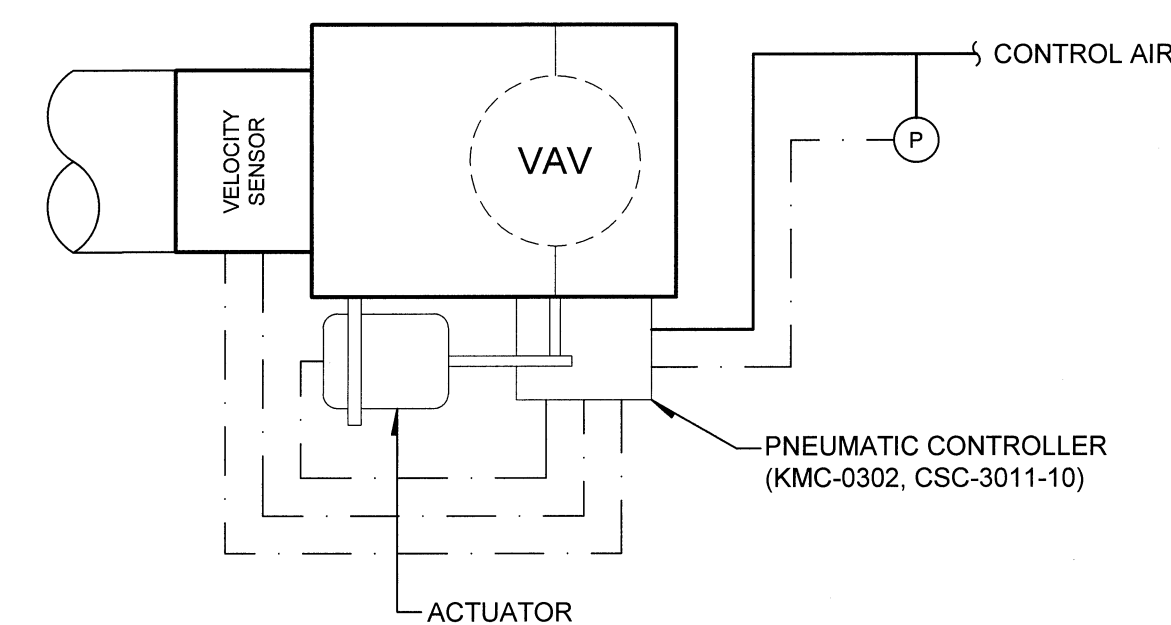
TAG	AIR TRANSFER FAN TYPE	AIR FLOW L/S	EXTERNAL STATIC PRESSURE	ELECTRICAL CONNECTION			ACCESSORIES	NOTES
				VOLTS/PH/Hz	HP	FLA		
TF-001	INLINE	566	105	120/1/60	1/4	5.8	C/W DISCONNECT, SPEED CTL	1
TF-002	INLINE	280	105	120/1/60	1/6	3.4	C/W DISCONNECT, SPEED CTL	1
TF-003	INLINE	140	105	120/1/60	1/12	-	C/W DISCONNECT, SPEED CTL	1
TF-004	INLINE	140	105	120/1/60	1/12	-	C/W DISCONNECT, SPEED CTL	1
NOTE(S):								
1. SEE SPECIFICATIONS FOR DESCRIPTION AND MORE ACCESSORIES TO BE SUPPLIED AND INSTALLED								

PLUMBING SCHEDULE:

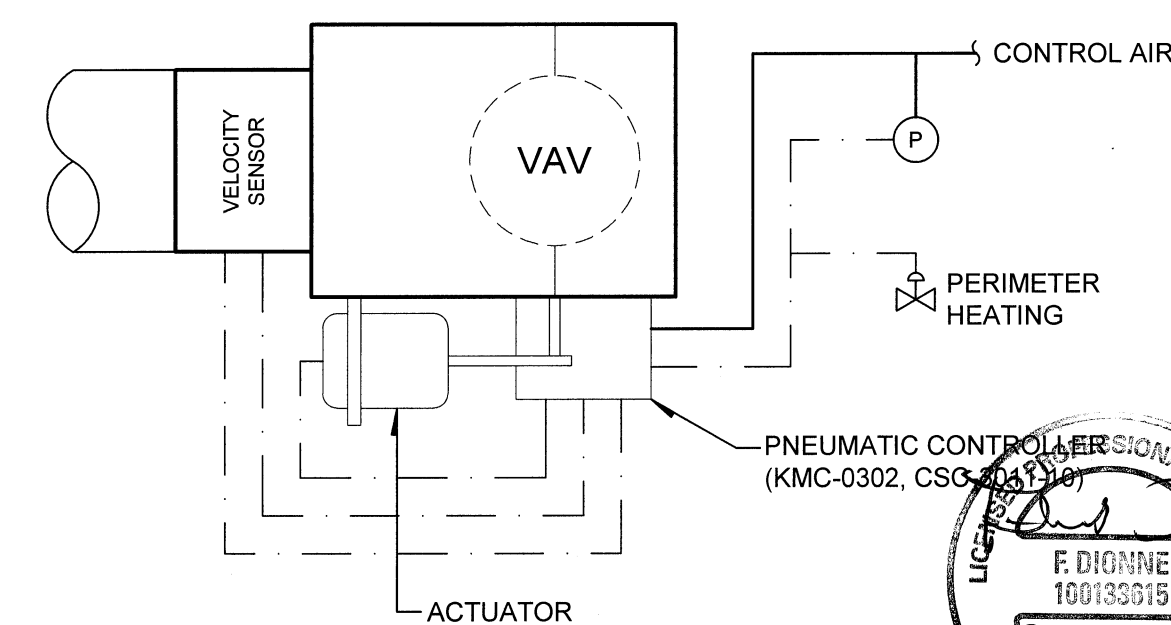
LFP-1 LIFT PUMP LOCATED UNDER THE KITCHEN COUNTER, CAPACITY OF 1.13 L/s (18 gpm @ 14') AND A LIFT CAPACITY OF 4.25 METERS. UNIT C/W ELECTRICAL PLUG FOR 120V. SEALS AND ATTACHMENT FOR INSTALLATION UNDER THE COUNTER.

FIRE PROTECTION SCHEDULE:

EX-E EXISTING WALL MOUNTED FIRE EXTINGUISHER CLASS 4A-60BC.
EX-1 NEW WALL MOUNTED FIRE EXTINGUISHER CLASS 3A-40BC.
CI-E EXISTING FIRE HOSE CABINET C/W FIRE EXTINGUISHER CLASS 3A-40BC.



EXISTING INTERIOR SETUP



EXISTING PERIMETER SETUP

VAV BOXES PNEUMATIC CONTROL DIAGRAM

