



DO NOT SCALE DRAWINGS

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3	ISSUED FOR CONSTRUCTION	15-02-03
2	99% SUBMISSION	14-12-18
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0	SCHEMATIC DESIGN SUBMISSION	14-09-25
Revision	Description	Date
Client		client

PUBLIC WORKS AND
GOVERNMENT SERVICES
CANADA

Project	Project
INTERIOR LEASE FIT-UP FOR CIC RELOCATION TO VICTORY BUILDING, WINNIPEG 269 MAIN STREET WINNIPEG, MANITOBA	
Designed by Andrew McCorrister	Conçu par
Drawn by Chris Parascchi	Dessiné par
Approved by David Siepman	Approuvé par
PWGSC Project Manager John Allbin	Administrateur de Projets TPSGC
Drawing title	Titre du dessin
MECHANICAL FOURTH & SEVENTH FLOOR RENOVATION	
Project no./No. du projet R.055488.006	Drawing no./No. du dessin M1.3
	Revision no. 3
3 OF 3	

GENERAL NOTES

- COORDINATE ALL WORK REQUIRED SHUT-DOWN OF EXISTING SYSTEMS THAT COULD AFFECT EXISTING TENANTS WITH THE BUILDING OWNER AT A TIME AND MANNER SUITABLE TO THEM.
- FIRE STOP ALL NEW MECHANICAL PENETRATIONS THROUGH FIRE-RATED PARTITIONS.
- NOT ALL DUCT TRANSITIONS ARE SHOWN ON PLAN. REFER TO DETAILS SHEETS AND SMACNA - HVAC DUCT CONSTRUCTION STANDARDS FOR REQUIRED DUCT TRANSITIONS AND FITTINGS. ALL DUCT TAPS TO BRANCH DUCTS SHALL HAVE 45 DEGREE ENTRY FITTINGS.
- ALL DUCTWORK SHALL BE SEALED ACCORDING TO THE MECHANICAL SPECIFICATIONS.
- COORDINATE FINAL THERMOSTAT INSTALLATION HEIGHT AND DISTANCE FROM DOOR WITH DEPARTMENTAL REPRESENTATIVE.
- PROVIDE MANUAL BALANCE DAMPERS FOR EACH EXHAUST GRILLE WHERE AN AIR VOLUME HAS BEEN PROVIDED.
- PROVIDE MANUAL BALANCE DAMPERS FOR EACH SUPPLY GRILLE WHERE AN AIR VOLUME HAS BEEN PROVIDED.
- INSTALL BALANCE DAMPERS AS FAR AWAY FROM GRILLES OR DIFFUSERS SERVED AS PRACTICALLY POSSIBLE.
- INSTALL ALL BALANCE DAMPERS IN AN EASILY ACCESSIBLE LOCATION.

KEY NOTES

1. PROVIDE NEW VAV BOX AND THERMOSTAT.
2. RELOCATE DIFFUSER AND CONNECT TO VAV TERMINAL AS SHOWN.
3. REUSE EXISTING DIFFUSER. BALANCE TO SHOWN AIR VOLUMES.
4. NEW AC UNIT TO REPLACE EXISTING UNIT. MOUNT AT HIGH LEVEL IN SPACE. AT APPROXIMATELY THE SAME LOCATION AS THE DEMOLISHED UNIT. RECONNECT TO EXISTING GLYCOL PIPING WITH NEW FLEXIBLE CONNECTORS. PROVIDE LINE SIZED ISOLATION VALVES.
5. PROVIDE NEW ACOUSTIC TRANSFER AIR DUCT ABOVE CEILING LEVEL.
6. RELOCATE THERMOSTAT AND RECONNECT TO VAV BOX AND WALL FIN CONTROL VALVES WHERE INDICATED.
7. PROVIDE NEW THERMOSTAT TO MATCH EXISTING PNEUMATIC THERMOSTAT.
8. EXHAUST DIFFUSER TO BE MOUNTED 300mm ABOVE FINISHED FLOOR.
9. EXHAUST FAN TO BE MOUNTED WITHIN CEILING SPACE. SUSPEND FROM STRUCTURE ABOVE.
10. DISCHARGE EXHAUST DUCT INTO CEILING PLENUM.
11. PROVIDE NEW BARRIER FREE SINK. REFER TO ARCHITECTURAL DETAILS FOR DRAINAGE CONCEALMENT REQUIREMENTS. ALL DRAINAGE PIPING TO BE COMPLETE WITH INSULATION WHERE EXPOSED.
12. REINSTALL EXISTING DIFFUSER.
13. RELOCATE VAV BOX TO SOUTH SIDE OF NEW PARTITION WALL. DIFFUSERS TO BE RECONNECTED TO THE CORRECT VAV BOX WITHIN 708. PATCH DUCTS AND MULTI-OUTLETS AS REQUIRED. CONNECT TO THERMOSTATS AS SHOWN.
14. PROVIDE NEW FIRE DAMPER INTO EXISTING DUCTWORK WHERE IT PASSES THROUGH NEW PARTITION.
15. SUPPORT ACOUSTIC ELBOWS FROM STRUCTURE ABOVE.
16. NEW THERMOSTAT TO MATCH EXISTING. CONNECT TO VAV BOX AND WALL FIN AS INDICATED.
17. DUCTWORK RELOCATED TO ACCOMMODATE NEW WALL TO UNDERSIDE OF FLOOR ABOVE.

FAN SCHEDULE

MARK	ZONE SERVED	AIRFLOW (L/s)	FAN E S P (Pa)	POWER kW	RPM	VOLTAGE	SONES	NOTES
EF-1	Printer Area	59	100	0.10	1400	115/60/1	2.5	1,2
EF-2	Printer Area	59	100	0.10	1400	115/60/1	2.5	1,2
EF-3	Printer Area	59	100	0.10	1400	115/60/1	2.5	1,2
EF-4	Printer Area	59	100	0.10	1400	115/60/2	3.5	1,3

1. C/w backdraft damper
2. Power and Sone rating based on ducted installation complete with back draft damper.

DX AIR CONDITIONING UNIT

MARK	ZONE SERVED	COOLING CAPACITY TOTAL (MBH)	(kW)	(tons)	POWER V/PH	WATER/GLYCOL FLOW RATE (L/s)	(gpm)	PRESSURE DROP (kPa)	(psi)	NOTES
AC-01	446 LAN	36.0	11	3	208/3 ph	0.57	9	51.7	7.5	1,2,3
AC-02	711 LAN	36.0	11	3	208/3 ph	0.57	9	51.7	7.5	1,2,3

1. Water cooled evaporator. R-410a refrigerant, suitable for data room installation (high sensible load treatment)
2. Complete with wired remote control
3. Connected to existing water/glycol loop.

Variable Air Volume Terminal Unit Schedule

MARK #	TYPE	SERVES RMS NO.	NOMINAL SIZE	INLET DIA. mm	OUTLET DIM. mm	DESIGN AIR VOLUME CFM	DESIGN AIR VOLUME L/S	MIN AIR VOLUME CFM	MIN AIR VOLUME L/S	Comments
VAV 4-57	Single Duct	405 Interview Room 2	6	150	300x200	284	134	142	67	1
VAV 4-58	Single Duct	406 Fingerprint Room	4	100	300x200	163	77	82	39	1
VAV 4-59	Single Duct	409 Interview Room 4	6	150	300x200	284	134	142	67	1
VAV 4-60	Single Duct	401 Reception	8	200	300x250	615	290	399	174	1
VAV 7-1	Single Duct	706 Quiet Room/705 Open Work Area	10	250	350x312	750	344	450	212	1
VAV 7-2	Single Duct	704 Support Space/705 Open Work Area	8	200	300x250	634	299	317	150	1
VAV 7-3	Single Duct	706 Quiet Room	4	100	300x200	142	67	71	34	1

1. Complete with Multi-outlet Adaptor Section.

1 SEVENTH FLOOR MECHANICAL RENOVATIONS PLAN
M1.3 SCALE: 1:100

2 FOURTH FLOOR MECHANICAL RENOVATION PLAN
M1.3 SCALE: 1:100