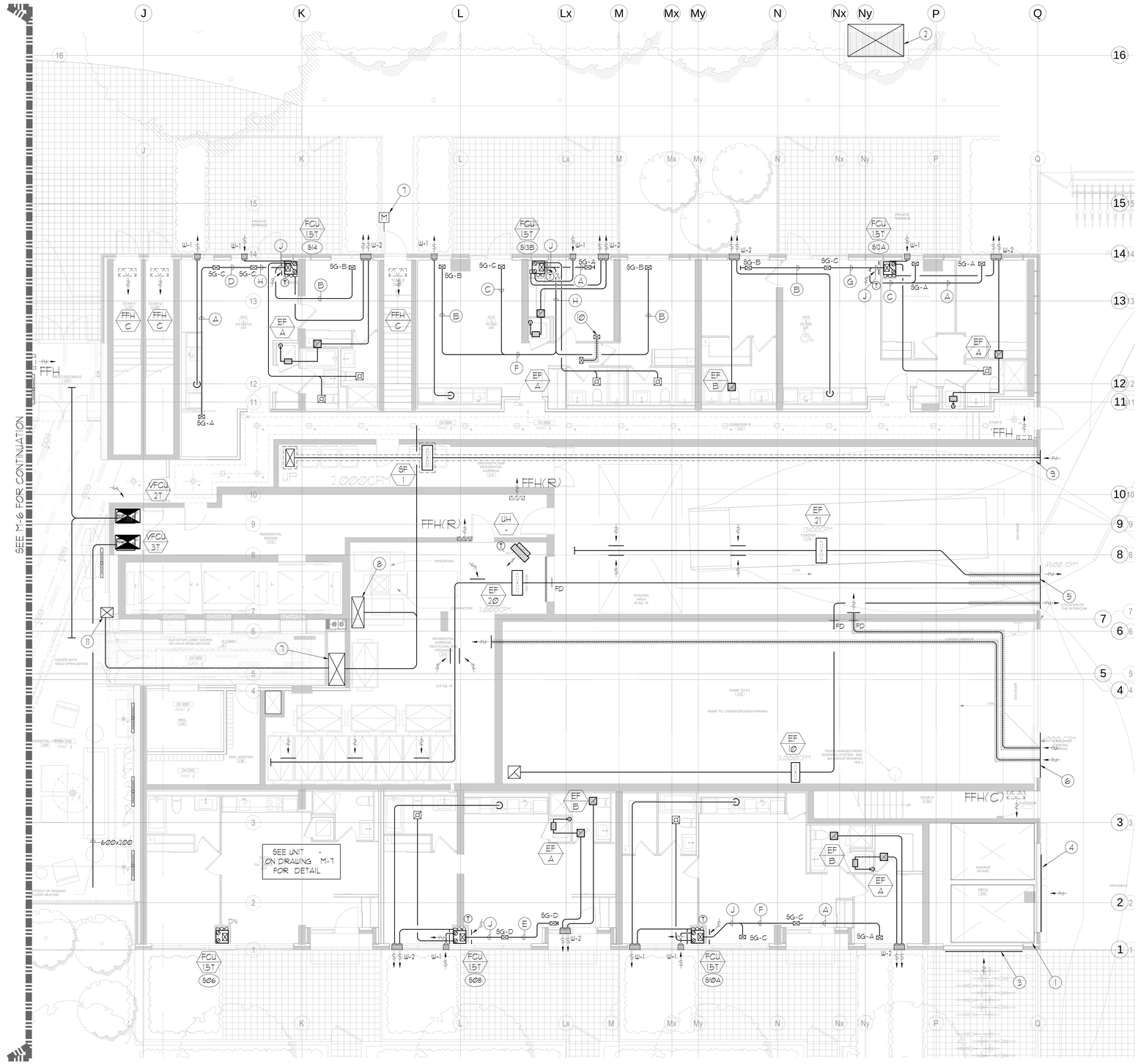
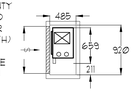
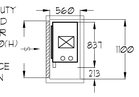


"VENTEX" HEAVY DUTY HINGED ANODIZED ALUMINUM LOUVER DOOR 870Ø(W)X1250(H) FOR RETURN AIR ℄ MAINTENANCE ⁄BY VENTILATION CONTRACTOR

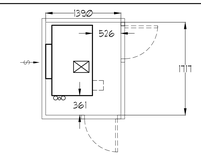


TYPICAL MECH. CLOSET FOR VERTICAL FCU (FCG-1T TO 15T) AT COMMON AREA — N.T.S.

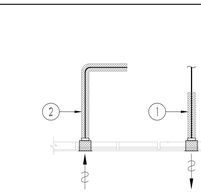
"VENTEX" HEAVY DUTY HINGED ANODIZED ALUMINUM LOUVER DOOR 1050Ø(W)X1250(H) FOR RETURN AIR ℄ MAINTENANCE ⁄BY VENTILATION CONTRACTOR



TYPICAL MECH. CLOSET FOR VERTICAL FCU (FCG-2T TO 3T) AT COMMON AREA — N.T.S.



TYPICAL MECH. CLOSET FOR VERTICAL FCU (FCG-5T) AT COMMON AREA — N.T.S.



1. EXHAUST DUCTWORK TO BE C/W 25mm THICK THERMAL INSULATION 6FT. FROM EXTERNAL WALL. (TYPICAL)
2. F/A INTAKE DUCTWORK TO BE C/W 25mm THICK THERMAL INSULATION FOR ENTIRE LENGTH FROM EXTERIOR WALL TO ERV FCU. (TYPICAL)

TYPICAL DETAIL:INSULATION FOR INTAKE⁄EXHAUT DUCTWORK — NTS

GENERAL NOTES:

1) CONTRACTOR SHALL CO-ORDINATE ARCHITECTURAL, STRUCTURAL, LIGHTING, HVAC, SPRINKLER DRAWINGS TO AVOID AREAS OF CONFLICT AND TO MAINTAIN CEILING HEIGHTS.
2) CONTRACTOR SHALL REPORT ALL DISCREPANCIES AND AREA OF CONFLICTS TO THE ENGINEER PRIOR TO WORK BEGINS.
3) PROVIDE EXPANSION CHAMBERS FOR ALL KITCHEN SINKS.
4) SEE INSTALLATION DETAILS DRAWING FOR WASHER DOM, H4C WATER, SANITARY CONNECTION DETAILS.
5) SUPPLY AND INSTALL COMPLETE DOMESTIC HOT AND COLD WATER LINES, SANITARY AND VENT LINES TO EACH FIXTURE /EQUIPMENT INCLUDING WATER CLOSETS, LAVATORIES, BATHS, SHOWERS, KITCHEN SINK WASHING MACHINES DISHWASHERS, AND FLOOR DRAINS. KITCHEN SINK, LAVATORIES, WATER CLOSETS AND WASHING MACHINE TO BE C/W LOCALIZED SHUT-OFF VALVES.
6) ALL VENT PIPE INSTALLATION TO COMPLY WITH PLUMBING CODES.
7) FOR D.H.W.C. W. RISER SIZES, REFER TO RISER DIAGRAM
8) FIRE DAMPERS ARE REQUIRED TO BE LISTED AND ARE TO HAVE FIRE PROTECTION RATING OF THE PENETRATED FIRE SEPARATION.
9) THE PIPING PENETRATING THE VARIOUS FIRE SEPARATION IS REQUIRED TO BE FIRESTOPPED WITH A LISTED FIRESTOPPING MATERIAL IN ACCORDANCE WITH OBC ARTICLE 3.1.9.1
10) THE FIRE HOSE CABINET THAT ARE RECESSED INTO THE EXIT STAIR SHAFTS ARE REQUIRED TO BE SEPARATED FROM THE EXIT STAIR BY A 2 HR. FIRE SEPARATION.
11) NO FLEXIBLE DUCT SHALL BE USED FOR ANY IN-SUITE DUCTWORK.
12) PROVIDE 25MM EXTERNAL INSULATION TO ENTIRE FRESH AIR DUCT FROM EXTERIOR WALL TO ERV FAN COIL UNIT.
13) DRYER EXHAUST DUCT SHALL BE SMOOTH AND CORROSION-RESISTANT MATERIAL (FLEXIBLE CONNECTION IS NOT ACCEPTABLE).

REFER TO DWG. M-X FOR GENERAL AND ACOUSTIC NOTES

CLEAR FLOOR TO UNDERSLAB = 4050mm
CLEAR PRODUCT= 3000mm
COMPLETE DROP CEILING =1000mm FOR DUCT/PIPES
ROOF DRAINS ⁄ TERRACE DRAINS FROM 2/F

NOTES:

1. 3,300x2,200 (7.3 M², 78.2 FT²) FRESH AIR INTAKE SHAFT FOR PARKING GARAGE AND 3,300x2,300 (7.6 M², 81.1 FT²) INTAKE SHAFT FOR MAU-1.
2. 2,250x1,300 (2.93 M², 31.5 FT²) FRESH AIR INTAKE SHAFT FOR P-1 LEVEL C/W GRATE BY OTHERS.
3. 3,100x3,200 WEATHERPROOF INTAKE LOUVRE C/W BIRDSCREEN. (26,500 CFM)
4. 3,100x3,200 WEATHERPROOF INTAKE LOUVRE C/W BIRDSCREEN. (26,500 CFM)
5. 2,000x8,00 WEATHERPROOF INTAKE LOUVRE c/w BIRDSCREEN. (4,000 CFM)
6. 1,100x8,00 WEATHERPROOF EXHAUST LOUVRE c/w BIRDSCREEN. (4,500 CFM)
7. 650x1,300 F/A DUCT FROM BELOW C/W FIRE DAMPER AT SLAB.
8. 1,250x500 F/A DUCT UP TO NORTH SHAFT C/W FIRE DAMPER AT SLAB.
9. 2HF FIRE RATED ENCLOSURE. FIRE RATED ENCLOSURE BY OTHERS.
10. 300x150 TRANSFER AIR DUCT c/w INTERNAL ACOUSTIC LINING AND TWO 300x150 TRANSFER AIR GRILLES.
11. 500x400 F/A DUCT UP TO SOUTH SHAFT B C/W FIRE DAMPER AT SLAB.

KEY PLAN — N.T.S.

LEGEND MECHANICAL

SYMBOL	DESCRIPTION
	SUPPLY AIR DIFFUSER
SDBT	SUPPLY AIR TROFFER
	LINEAR SUPPLY DIFFUSER
T	THERMOSTAT
S	FAN SWITCH
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	SUPPLY DUCT UP
	SUPPLY DUCT DOWN
	RETURN DUCT UP
	RETURN DUCT DOWN
	EXHAUST DUCT UP
	EXHAUST DUCT DOWN
FD	FIRE DAMPER
BD	BALANCING DAMPER
MD	MOTORIZED DAMPER
MFD	MOTORIZED FIRE DAMPER
BDD	BACKDRAFT DAMPER
OBD	OPPOSED BLADE VOLPE CONTROL DAMPER C/W LOCKING QUADRANT
	TURNING VANES
	FLEXIBLE CONNECTION
	ACOUSTIC INSULATION
XXX	TYPE OF EQUIPMENT
XXX	EQUIPMENT IDENTIFICATION
XXX	TYPE OF DIFFUSER OR GRILLE
XXX	DIFFUSER/GRILLE/REGISTER NECK SIZE
XXX	AIRFLOW (CFM OR L/s)
S, S	STARTER / 3 PHASE, 1 PHASE /
S	IN-SUITE ERV MASTER SWITCH
S	FAN SWITCH / IN-SUITE ERV OVERRIDE BUTTON
CO	CO SENSOR
	GAS LINE
	GAS METER
	GAS COCK
PR	PRESSURE REDUCING VALVE
	SANITARY ABOVE GRADE
	SANITARY BELOW GRADE
	STORM ABOVE GRADE
	STORM BELOW GRADE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATION
	SANITARY VENT
	WATER METER
FD	FLOOR DRAIN
RFD	RUNNEL FLOOR DRAIN
HD	HUB DRAIN
RD	ROOF DRAIN
BLD	BLADE DRAIN
AD	AREA DRAIN
BLAD	BI-LEVEL AREA DRAIN
CB	CATCH BASIN
	SANITARY TRAP
	ELBOW UP
	ELBOW DOWN
CO	WALL CLEANOUT
CO	FLOOR CLEANOUT
HB	HOSE BIBB
NFHB	NON-FREEZE HOSE BIBB
	GLOBE VALVE
	GATE VALVE
	BALL VALVE
	BUTTERFLY VALVE
PR	PRESSURE REDUCING VALVE
	CHECK VALVE
	CAP
OA	COMPRESSED AIR OUTLET
NX	BACKFLOW PREVENTER
	CIRCUIT BALANCING VALVE
	MULTIPLE PIPES / - DENOTES NO. OF PIPES
T	TEMPERATURE SENSOR
T	THERMOSTEM
2W	2-WAY MODULATING VALVE
3W	3-WAY MODULATING VALVE
T	10'x4'(D) THERMOWELL C/W 1/2" BUSHING x 1/2" PLUG
XXX'-X"	FLOOR ELEVATION ABOVE LEVEL
XXX'-X"	FLOOR ELEVATION THIS LEVEL
XXX'-X"	HEADROOM (FLOOR TO U/S HEIGHT)

07/10/14	2	RE-ISSUED FOR PERMIT	E.P.
29/04/14	1	ISSUED FOR PERMIT	E.P.
DATE	NO.	DESCRIPTION	BY

MARK VOID ALL PRINTS DATED PREVIOUS TO FINAL DATE ABOVE

REVISIONS

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT DISCREPANCIES TO THE ENGINEERS BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS THE PROPERTY OF THE ENGINEERS AND MUST BE RETURNED UPON COMPLETION OF THE WORK.

DRAWINGS ARE NOT TO BE SCALED

NOVA TREND ENGINEERING GROUP LTD.

LICENSED PROFESSIONAL ENGINEER — ERIC PUI KAI AU — 07/10/14 — PROVINCE OF ONTARIO

175 West Beaver Creek Road, Unit 31
Richmond Hill, Ontario L4B 3M1
Tel: 905 882-5445
Fax: 905 882-5447
Email: cad@novatrendeng.com

DRAWING TITLE:
G/F NORTH
HVAC DUCTWORK LAYOUT

PROJECT TITLE:
ALEXANDRA PARK

XXX
TORONTO ONTARIO

DRAWN BY:	CHECKED BY:	SCALE:
G.S.	E.P.	1:50
DATE:	PROJECT NUMBER:	DRAWING NUMBER:
FEB. 13	1313	M-7 OF 39

Drawing name: \\CADD\DWG\Current Dwgs\1313 - Alexandra Park\2013\1313M - 6 JOF PLAN - SOUTH & NORTH DUCTWORK LAYOUT.dwg Plotted: Jul 09, 2014 - 4:10pm