



UNIT	NAME	AREA (SQ. FT.)	# OF UR	# OF FOUJER	SIZE (T)	FIXTURE UNITS	BR	SQ. FT/T
FH05	3C	990	2	0	2	16	3	495
FH11	1C-D1	590	2	0	1	16	1	590
FH12	1C-D1	590	2	0	1	16	1	590
FH19	2L	755	2	0	15	16	2	503
FH20	2H	740	2	0	15	16	2	493
FH21	2L-R2	755	2	0	15	16	2	503
FH29	1A-M3	580	1	0	1	10	1	580

DESIGNATION	SIZE	L/S (UNLESS SPECIFIED ELSEWHERE)
SG-A	300x100	41-10
SG-B	300x150	71-93
SG-C	400x150	94-140
SG-D	450x150	141-188
EG-A	150x150	35
W-1	225x200	210mm(L)
W-2	425x200	INSULATED
W-3	625x200	WALL BOX

DESIGNATION	MODEL	W x D
FCU-IT	450	500x660
FCU-15T	600	500x660
FCU-2T	800	500x660
FCU-25T	1000	550x660
FCU-3T	1200	550x660

NOTE:
A MIN. OF 125mm IS REQUIRED ON THE SIDE OF PIPE RISER

DESIGNATION	L/S	DUCT SIZE	DESIGNATION	L/S	DUCT SIZE
(A)	41	100x150	(G)	109	350x150
(B)	71	150x150	(H)	236	450x150
(C)	94	200x150	(J)	293	500x150
(D)	118	200x150	(K)	330	600x150
(E)	141	250x150	(L)	371	500x200
(F)	165	300x150			

- GENERAL NOTES:**
- CONTRACTOR SHALL CO-ORDINATE ARCHITECTURAL, STRUCTURAL, LIGHTING, HVAC, SPRINKLER DRAWINGS TO AVOID AREAS OF CONFLICT AND TO MAINTAIN CLEARANCE HEIGHTS.
 - CONTRACTOR SHALL REPORT ALL DISCREPANCIES AND AREA OF CONFLICTS TO THE ENGINEER PRIOR TO WORK BEGINS.
 - PROVIDE EXPANSION CHAMBERS FOR ALL KITCHEN SINKS.
 - SEE INSTALLATION DETAILS DRAWING FOR WASHER DOM. HAC WATER, SANITARY CONNECTION DETAILS.
 - 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.
 - ALL VENT PIPE INSTALLATION TO COMPLY WITH PLUMBING CODES.
 - FOR D.H.C. W. RISER SIZES, REFER TO RISER DIAGRAM
 - FIRE DAMPERS ARE REQUIRED TO BE LISTED AND ARE TO HAVE FIRE PROTECTION RATING OF THE PENETRATED FIRE SEPARATION.
 - THE PIPING PENETRATING THE VARIOUS FIRE SEPARATION IS REQUIRED TO BE FIRESTOPPED WITH A LISTED FIRESTOPPING MATERIAL IN ACCORDANCE WITH CBC ARTICLE 319.1
 - 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.
 - NO FLEXIBLE DUCT SHALL BE USED FOR ANY IN-SUITE DUCTWORK.
 - PROVIDE 25MM EXTERNAL INSULATION TO ENTIRE FRESH AIR DUCT FROM EXTERIOR WALL TO ERY FAN COIL UNIT.
 - DRYER EXHAUST DUCT SHALL BE SMOOTH AND CORROSION-RESISTANT MATERIAL (FLEXIBLE CONNECTION IS NOT ACCEPTABLE).

- ACOUSTIC NOTES:**
- ALL HORIZONTAL SUPPLY AIR DUCTWORK SHALL BE C/W 25MM INTERNAL ACOUSTIC LINING AND SHALL BE SUSPENDED ON RUBBER PADS IN THE HANGERS. ELBOUS SHALL BE COMPLETE WITH TURNING VANES.
 - ALL SYSTEM DOMESTIC PIPE LOOPS OR OFFSETS WHICH ARE 50MM DIA. AND LARGER SHALL BE ISOLATED USING NEOPRENE-IN-SHEAR HANGERS, AND ADDITIONAL 25 MM THICK RIBBED OR WAFFLED NEOPRENE PADS IN THE SADDLES OF CLEVIS HANGERS.
 - ALL PIPES SMALLER THAN 50MM DIA. SHALL BE ISOLATED WITH 5MM THICK RIBBED OR WAFFLED RUBBER PADS IN HANGER SADDLES.

CLEAR FLOOR TO UNDERSLAB = 3210mm
 CLEAR PRODUCT = 2100mm
 COMPLETE DROP CEILING = 510mm

- NOTES:**
- NORTH F/A SHAFT B FROM G/F TO 14/F DUCT SERVING CORRIDOR FROM G/F TO 14/F. SEE VENTILATION RISER DIAGRAM FOR DETAILS.
 - NORTH SHAFT B F/A SERVING FROM G/F TO 14/F. F/A DUCT SERVING CORRIDOR FROM G/F TO 14/F. SEE VENTILATION RISER DIAGRAM FOR DETAILS.
 - PIPE SHAFT - REFER TO PIPE DIAGRAM FOR DETAILS.
 - 150# KITCHEN / DRYER / W/R / FCU INTAKE / FCU EXHAUST DUCT. (TYPICAL UNLESS OTHERWISE NOTED)
 - SEE DWG. M-33 FOR PIPING CONNECTION DETAIL.
 - 50# SUR.
 - 32# SUR.
 - 100# SUR.
 - 150# SUR.
 - 75# SUR.
 - 600# GARBAGE CHUTE C/W 19# DOW WITH BACKFLOW PREVENTOR AND ISOLATING VALVE FOR GARBAGE CHUTE WASHDOWN RING.
 - 15# DHUR.
 - 25# DHUR.
 - 32# DHUR.
 - 38# DHUR.
 - 50# DHUR.
 - 150# CU/S 4 R.
 - 250# COMBUSTION AIR INTAKE AND 250# EXHAUST UP THROUGH ROOF C/W TERMINATION FITTING, AS PER MANUFACTURER'S INSTALLATION MANUAL AND T88A REQUIREMENTS.
 - 300# COMBUSTION AIR INTAKE AND 2225# EXHAUST UP THROUGH ROOF C/W TERMINATION FITTING, AS PER MANUFACTURER'S INSTALLATION MANUAL AND T88A REQUIREMENTS.
 - 100# 8TM #18.
 - 100# RUL DOWN.
 - 100# RUL FROM ABOVE.
 - 400x200 INTAKE LOUVRE C/W MOTORIZED DAMPER FIRE DAMPER 4 WIRE MESH.
 - REFRIGERANT PIPES FROM SPLIT COOLING INDOOR UNIT (SAC-IT) TO CONDENSING UNIT (SCU-IT). PIPE SIZING AND INSTALLATION AS PER MANUFACTURER'S RECOMMENDATIONS (TYPICAL).

LEGEND MECHANICAL

SYMBOL	DESCRIPTION
[Symbol]	SUPPLY AIR DIFFUSER
[Symbol]	LINEAR SUPPLY DIFFUSER
[Symbol]	THERMOSTAT
[Symbol]	FAN SWITCH
[Symbol]	RETURN AIR GRILLE
[Symbol]	EXHAUST AIR GRILLE
[Symbol]	SUPPLY DUCT UP
[Symbol]	SUPPLY DUCT DOWN
[Symbol]	RETURN DUCT UP
[Symbol]	RETURN DUCT DOWN
[Symbol]	EXHAUST DUCT UP
[Symbol]	EXHAUST DUCT DOWN
[Symbol]	FIRE DAMPER
[Symbol]	BALANCING DAMPER
[Symbol]	MOTORIZED DAMPER
[Symbol]	MOTORIZED FIRE DAMPER
[Symbol]	BACKDRAFT DAMPER
[Symbol]	OPPOSITE BLADE VOLUME CONTROL DAMPER
[Symbol]	TURNING VANES
[Symbol]	FLEXIBLE CONNECTION
[Symbol]	ACOUSTIC INSULATION
[Symbol]	TYPE OF EQUIPMENT IDENTIFICATION
[Symbol]	TYPE OF DIFFUSER OR GRILLE
[Symbol]	SMALL SIZE OR DIFFUSER NECK SIZE
[Symbol]	LAMP/FLUORESCENT
[Symbol]	STARTER (3 PHASE / PHASE 1)
[Symbol]	IN-SUITE ERY TRAP/STAIR SWITCH
[Symbol]	FAN SWITCH (IN-SUITE ERY OVERSIDE BUTTON)
[Symbol]	CO RISER
[Symbol]	SAN LINE
[Symbol]	GAS RISER
[Symbol]	SAB COOK
[Symbol]	PRESSURE REDUCING VALVE
[Symbol]	PREMIARY ABOVE GRADE
[Symbol]	SANITARY BELOW GRADE
[Symbol]	STORM ABOVE GRADE
[Symbol]	STORM BELOW GRADE
[Symbol]	DOMESTIC COLD WATER
[Symbol]	DOMESTIC HOT WATER
[Symbol]	DOMESTIC HOT WATER RECIRCULATION
[Symbol]	SANITARY WENT
[Symbol]	WATER METER
[Symbol]	FLOOR DRAIN
[Symbol]	PANTRY FLOOR DRAIN
[Symbol]	HUB DRAIN
[Symbol]	ROOF DRAIN
[Symbol]	ALICE DRAIN
[Symbol]	AREA DRAIN
[Symbol]	IN-LEVEL AREA DRAIN
[Symbol]	CATCH BASIN
[Symbol]	BAZILLARY TRAP
[Symbol]	ELBOW UP
[Symbol]	ELBOW DOWN
[Symbol]	SMALL CLEANOUT
[Symbol]	FLOOR CLEANOUT
[Symbol]	NON-FREEZE HOSE EMBB
[Symbol]	NON-FREEZE HOSE EMBB
[Symbol]	SCREED VALVE
[Symbol]	GATE VALVE
[Symbol]	BALL VALVE
[Symbol]	PRESSURE REDUCING VALVE
[Symbol]	CHECK VALVE
[Symbol]	COMPRESSED AIR OUTLET
[Symbol]	BACKFLOW PREVENTER
[Symbol]	CIRCUIT BALANCING VALVE
[Symbol]	3-WAY VALVE
[Symbol]	2-WAY VALVE
[Symbol]	3-WAY MODULATING VALVE
[Symbol]	1/2" (40) THERMOSTAT
[Symbol]	1/2" (40) THERMOSTAT
[Symbol]	FLOOR ELEVATION ABOVE LEVEL
[Symbol]	HEADROOM FLOOR TO US LEIGHT

REVISED	DATE	DESCRIPTION	BY
REVISED 1	BASED FOR SITE INTERSECTION #14	EP	
REVISED 2	BASED FOR CITY COMMENTS	EP	
REVISED 3	BASED FOR SITE INTERSECTION #12	EP	
REVISED 4	BASED FOR SITE INTERSECTION #11	EP	
REVISED 5	BASED FOR TENDER	EP	
REVISED 6	RE-BASED FOR PERMIT	EP	
REVISED 7	BASED FOR PERMIT	EP	
REVISED 8	BASED FOR PERMIT	EP	

REVISIONS

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND SHALL BE KEPT IN THE OFFICE OF THE ENGINEER.

DRAWINGS ARE NOT TO BE SCALED



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DRAWING TITLE: 14/F MECHANICAL LAYOUT

PROJECT TITLE: 50 ALEXANDRA PARK BLOCK II 38 CAMERON STREET TORONTO ONTARIO

DRAWN BY: G.S. CHECKED BY: E.P. SCALE: 1:50

DATE: FEB, 13 PROJECT NUMBER: 1313 DRAWING NUMBER: M-32 OF 43

Drawing saved: \\server\c\Users\Gurpreet\Documents\Projects\1313 - Alexandra Park\1313 - 3304F MECH - MECHANICAL LAYOUT.rvt
 Printed: May 12, 2015 - 4:15pm