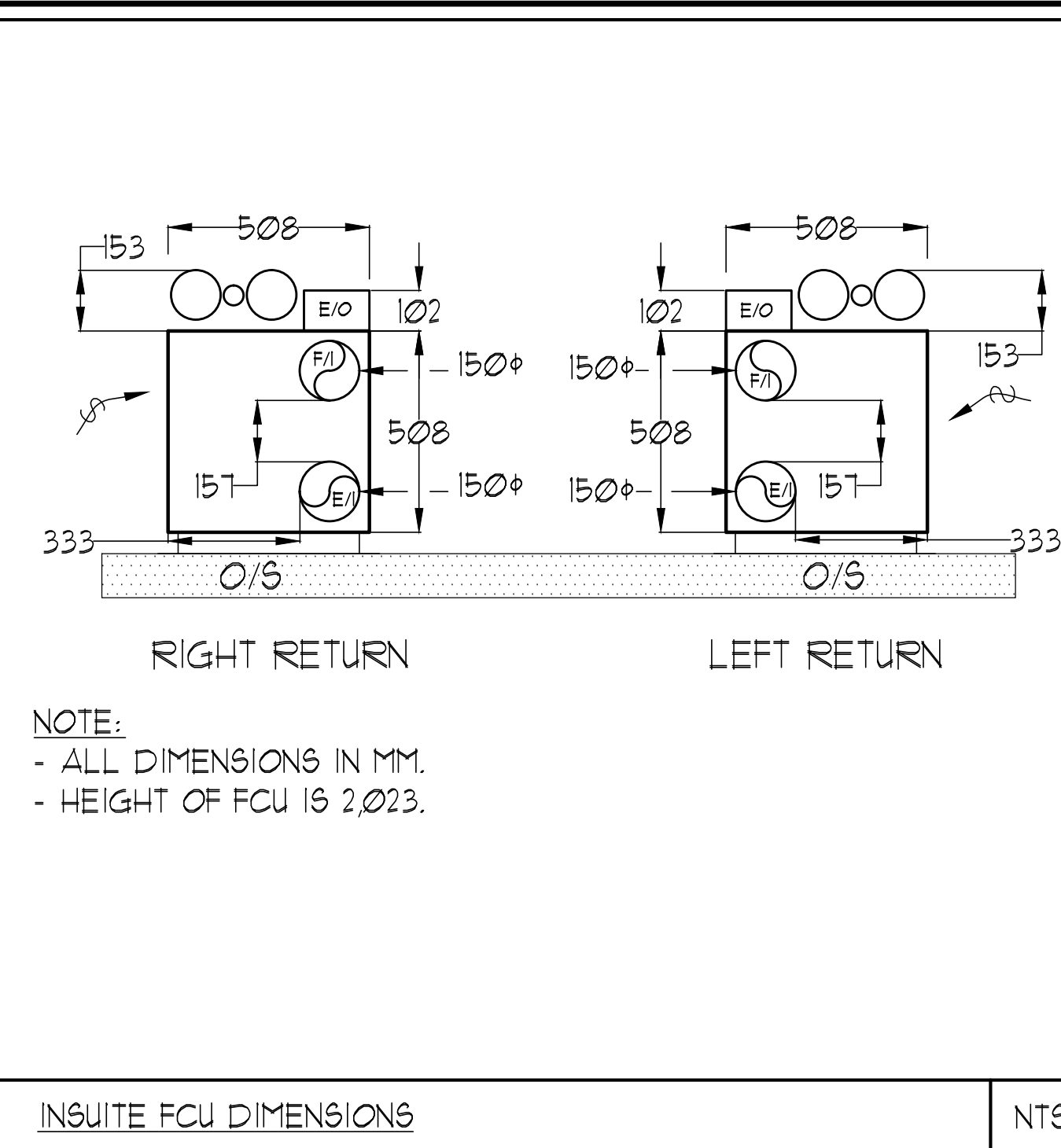




UNIT	NAME	AREA (SQ. FT.)	* OF WR	* OF POWDER	SIZE (T)	FIXTURE UNITS	BR	SQ. FT.
314	IC+D	590	2	0	1	16	1	590
315	IC+Dc	600	2	0	1	16	1	600
316	IC+Df	610	2	0	1	16	1	610
317	ID	480	1	0	1	10	1	480
318	IC+Da	570	1	1	1	16	1	570
319	2G1	700	2	0	15	16	2	467
321	IM1	550	1	0	15	10	1	367
322	IC+De2	625	2	0	15	16	1	417
323	IC+Dd1	620	2	0	1	16	1	620
324	IC+Dg	620	2	0	1	16	1	620
325	IL2	615	1	0	15	10	1	410
326	ILa2	595	1	0	15	10	1	397
327	IL5	615	1	0	15	10	1	410

DESIGNATION	SIZE	L/S (UNLESS SPECIFIED ELSEWHERE)
9G-A	300x100	47-10
9G-B	300x150	71-93
9G-C	400x150	94-140
9G-D	450x150	141-188
EG-A	150x150	35
W-1	225x200	210mm (L.)
W-2	425x200	INSULATED
W-3	625x200	WALL BOX

VERTICAL FAN COIL SIZE		
DESIGNATION	MODEL	W X D
FCU-1T	450	508x660
FCU-15T	600	508x660
FCU-2T	800	508x660
FCU-2.5T	1000	559x660
FCU-3T	1200	559x660

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

DUCT SIZING TABLE
(406 m/s, 800 FPM)

DESIGNATION	L/φ	DUCT SIZE
(A)	47	100x150
(B)	71	150x150
(C)	94	200x150
(D)	118	200x150
(E)	141	250x150
(F)	165	300x150

DESIGNATION	L/ø	DUCT SIZE
(G)	189	350x150
(H)	236	450x150
(J)	283	500x150
(K)	330	600x150
(L)	377	500x200

- 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 D.O.M. H.W.C 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 CBC ARTICLE 5.3.5.1)
- 10) THE FIRE HOSE CABINET THAT ARE RECEESSED 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).

- ACOUSTIC NOTES:
- 1) 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.
 - 2) ALL PIPES SMALLER THAN 50MM DIA. SHALL BE ISOLATED WITH 5MM THIC RIBBED OR WAFFLED RUBBER PADS IN HANGER SADDLES.

CLEAR FLOOR TO UNDERSLAB = 2590mm
CLEAR PRODUCT = 2550mm

- NOTES:
- 1 SOUTH F/A SHAFT FROM G/F TO B/F, DUCT SERVING CORRIDOR FROM G/F TO B/F. SEE PRESSURIZATION / VENTILATION RISER DIAGRAM FOR DETAILS.
 - 2 150Ø KITCHEN / DRYER / W/R / FCU INTAKE / FCU EXHAUST DUCT. (TYPICAL UNLESS OTHERWISE NOTED)
 - 3 100Ø R/WL FROM ABOVE AND DOWN.
 - 4 150Ø R/WL FROM ABOVE AND DOWN.

LEGEND

MECHANICAL

SYMBOL	DESCRIPTION
	SUPPLY AIR DRIVER
	SUPPLY AIR TRANSFER
	LINEAR SUPPLY AIR DRIVER
	THERMOSTAT
	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
	FIRE DAMPER
	BALANCING DAMPER
	MOTORIZED DAMPER
	MOTORIZED FIRE DAMPER
	BACKDRAFT DAMPER
	OPPOSED BLADE VOLUME CONTROL DAMPER
	G/L LOCKING QUADRANT
	TURNING VANES
	FLEXIBLE CONNECTION
	ACOUSTIC INSULATION
	TYPE OF EQUIPMENT
	EQUIPMENT IDENTIFICATION
	TYPE OF DRIFTER OR GRILLE
	SIZE OF DRIFTER OR GRILLE
	AIRFLOW (CFM OR LBS)
	IN-SUITE ENTRY SWITCH
	FAN SWITCH (IN-SUITE ENTRY OVERRIDE BUTTON)
	GAS LINE
	GAS METER
	GAS LOCK
	PRESSURE REDUCING VALVE
	SANITARY ABOVE GRADE
	SANITARY BELOW GRADE
	STORM ABOVE GRADE
	STORM BELOW GRADE
	STORMING HOT WATER
	STORMING COLD WATER
	STORMING HOT WATER RECIRCULATION
	WATER METER
	FLOOD CONTROL
	FUNNEL, FLOOR DRAIN
	H- DRAIN
	ROOF DRAIN
	S- DRAIN
	AREA DRAIN
	B-1-LEVEL, AREA DRAIN
	C- DRAIN, BASIN
	SANITARY TRAP
	ELBOW UP
	ELBOW DOWN
	WALL, CLEANOUT
	FLOOR, CLEANOUT
	HOSE BIBB
	NON-FREEZE HOSE BIBB
	GLOBE VALVE
	GATE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	PRESSURE REDUCING VALVE
	CHECK VALVE
	COMPRESSED AIR OUTLET
	BACKFLOW PREVENTER
	CHECK BALANCING VALVE
	MULTIPLE PIPES
	TENETS NO. OF PIPES
	TEMPERATURE SENSOR
	THERMO-PETER
	2 1/2" MODULATING VALVE
	1 1/2" MODULATING VALVE
	1/2" MODULATING VALVE
	1/4" MODULATING VALVE
	1/8" MODULATING VALVE
	1/16" MODULATING VALVE
	1/32" MODULATING VALVE
	1/64" MODULATING VALVE
	1/128" MODULATING VALVE
	1/256" MODULATING VALVE
	1/512" MODULATING VALVE
	1/1024" MODULATING VALVE
	1/2048" MODULATING VALVE
	1/4096" MODULATING VALVE
	1/8192" MODULATING VALVE
	1/16384" MODULATING VALVE
	1/32768" MODULATING VALVE
	1/65536" MODULATING VALVE
	1/131072" MODULATING VALVE
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	1/2097152" MODULATING VALVE
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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



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DRAWING TITLE:
3/F SOUTH
MECHANICAL LAYOUT

PROJECT TITLE:
SQ ALEXANDRA PARK
BLOCK II
38 CAMERON STREET
TORONTO

DRAIN BY: G.S.	CHECKED BY: E.P.	SCALE: 1:50
DATE: FEB, 13	PROJECT NUMBER: 1313	DRAWING NUMBER: M-14 OF 43