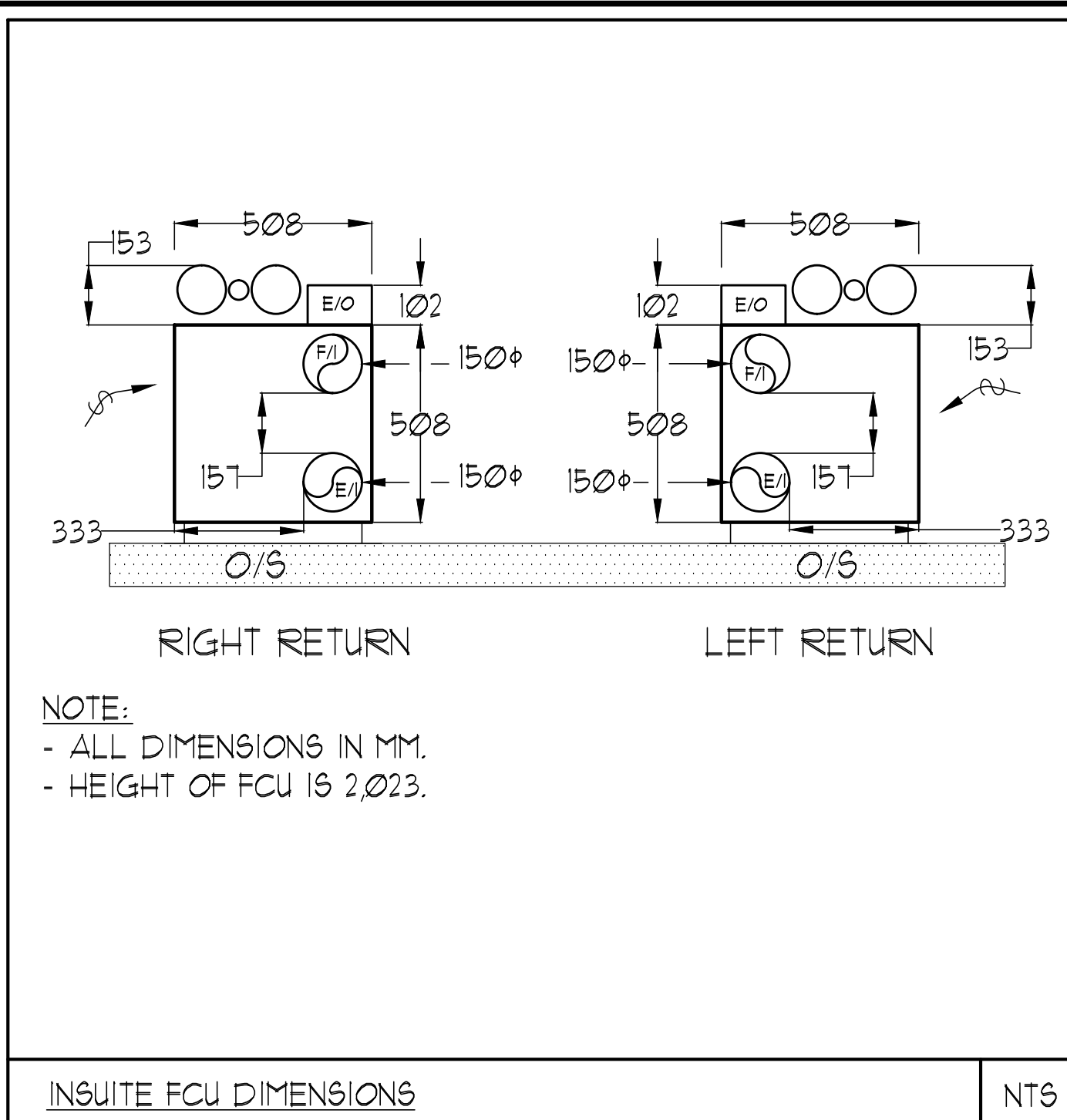
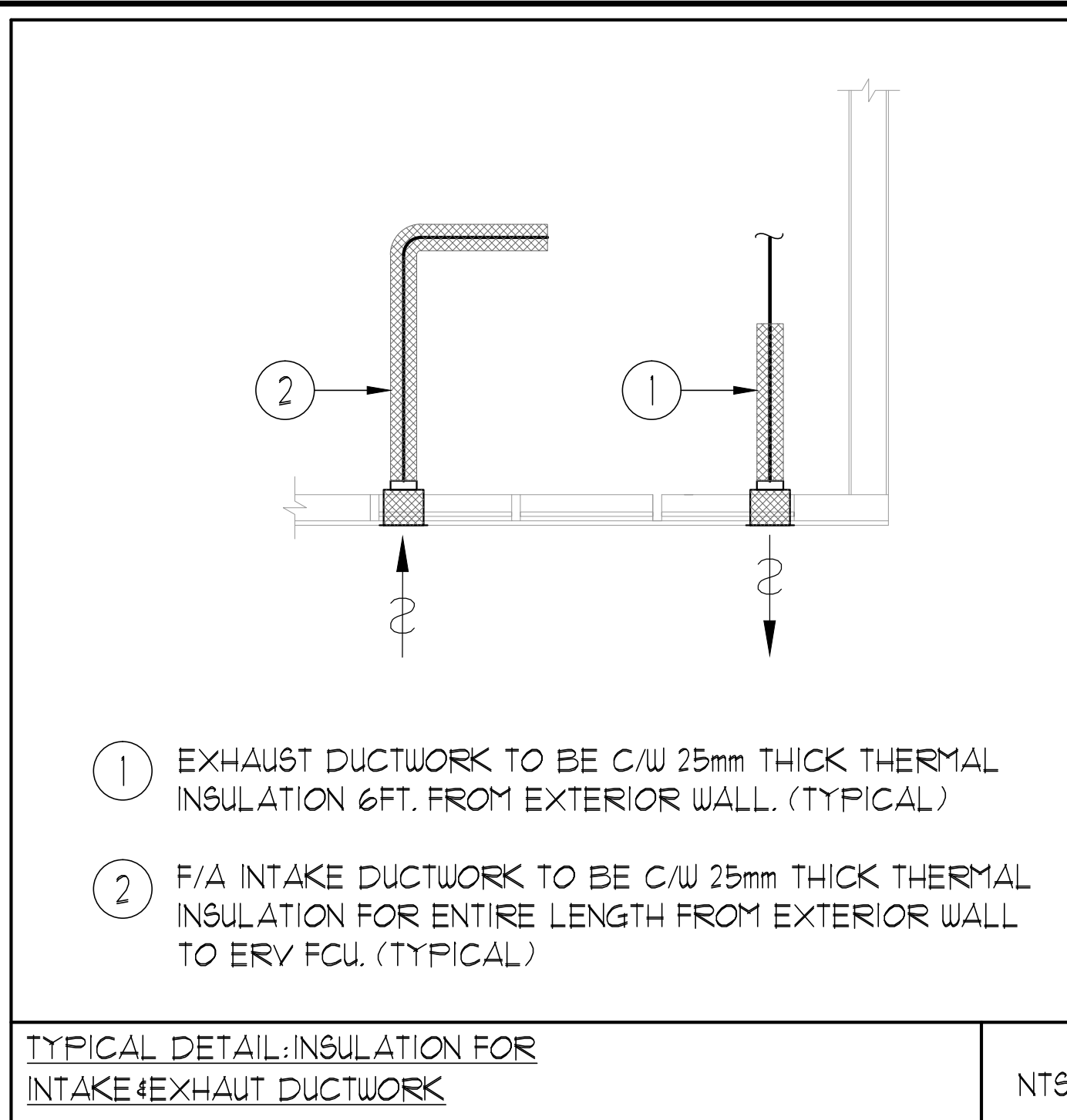




UNIT	NAME	AREA (SQ. FT.)	# OF WR	# OF POWDER	SIZE (T)	FIXTURE UNITS	BR	SQ. FT/T
214	IC-DT2	590	2	0	1	16	1	590
215	IC-DcT	600	2	0	1	16	1	600
216	IC-DIT	610	2	0	1	16	1	610
217	1DT	480	1	0	1	10	1	480
218	IC-DaT	510	1	1	1	16	1	510
219	2G	100	2	0	1.5	16	1	461
221	1M	550	1	0	1.5	10	1	361
222	IC-DcT	655	2	0	1.5	16	1	431
223	IC-DcT	620	2	0	1	16	1	620
224	IC-DgT	620	2	0	1	16	1	620
225	1L2	615	1	0	1.5	10	1	410
226	1LaT	595	1	0	1.5	10	1	391
227	1LT	615	1	0	1.5	10	1	410

GRILLE SIZING TABLE		
DESIGNATION	SIZE	L/S (VALUES SPECIFIED IN BRACKET)
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

DUCT SIZING TABLE (4.06 m/s, 800 FPM)		
DESIGNATION	L/S	DUCT SIZE
(A)	41	100x150
(B)	71	150x150
(C)	94	200x150
(D)	118	200x150
(E)	141	250x150
(F)	165	300x150

VERTICAL FAN COIL SIZE		
DESIGNATION	MODEL	W x D
FCU-1T	450	508x660
FCU-15T	600	508x660
FCU-2T	800	508x660
FCU-25T	1000	553x660
FCU-3T	1200	553x660

NOTE:
A MIN. OF 15mm IS REQUIRED ON THE SIDE OF PIPE RISER.

- 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 DRYER, H.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 DRY H.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 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.
 - 10) NO FLEXIBLE DUCT SHALL BE USED FOR ANY IN-SUITE DUCTWORK.
 - 11) PROVIDE 25MM EXTERNAL INSULATION TO ENTIRE FRESH AIR DUCT FROM EXTERIOR WALL TO ERV FAN COIL UNIT.
 - 12) 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 THICK RIBBED OR WAFFLED RUBBER PADS IN HANGER SADDLES.

CLEAR FLOOR TO UNDERSLAB = 2150mm
CLEAR PRODUCT = 2100mm

- 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.
 - 2 150* KITCHEN / DRYER / W.R. / FCU INTAKE / FCU EXHAUST DUCT. (TYPICAL UNLESS OTHERWISE NOTED)
 - 3 19* GAS PIPE c/w VALVE AND CAP FOR BEQ.
 - 4 19* DCW FOR NFHB TO BE CONNECTED TO SUITE'S MAIN DCW LINE.
 - 5 100* RUL FROM ABOVE AND DOWN.
 - 6 150* RUL FROM ABOVE AND DOWN.

LEGEND MECHANICAL

SYMBOL	DESCRIPTION
[Symbol]	SUPPLY AIR DRAINER
[Symbol]	SUPPLY AIR TRIPPER
[Symbol]	LINEAR SUPPLY DIFFUSER
[Symbol]	THERMOSTAT
[Symbol]	FAN MOTOR
[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]	BACKDRIFT DAMPER
[Symbol]	OPPOSED BLADE VALVE CONTROL DAMPER
[Symbol]	CSU LOCKING DAMPER
[Symbol]	TUNING VANES
[Symbol]	FLEXIBLE CONNECTION
[Symbol]	ACOUSTIC INSULATION
[Symbol]	TYPE OF EQUIPMENT
[Symbol]	STARTUP CONNECTION
[Symbol]	TYPE OF DIFFUSER OR GRILLE
[Symbol]	GRILLE SIZE ON DIFFUSER/GRILLE SIZE
[Symbol]	AMPLIFY (CM OR L/S)
[Symbol]	STARTER (3 PHASE / PHASE)
[Symbol]	IN-SUITE EXHAUST MOTOR
[Symbol]	FAN MOTOR / IN-SUITE EXHAUST MOTOR
[Symbol]	CO SENSOR
[Symbol]	GAS LINE
[Symbol]	GAS METER
[Symbol]	GAS STOP
[Symbol]	PRESSURE REDUCING VALVE
[Symbol]	SANITARY 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 VENT
[Symbol]	WATER METER
[Symbol]	FLOOR DRAIN
[Symbol]	FLOOR DRAIN
[Symbol]	ROOF DRAIN
[Symbol]	SLAB DRAIN
[Symbol]	AREA DRAIN
[Symbol]	BLIND AREA DRAIN
[Symbol]	CATCH BASIN
[Symbol]	SANITARY TRAP
[Symbol]	ELBOW UP
[Symbol]	ELBOW DOWN
[Symbol]	WALL CLEANOUT
[Symbol]	FLOOR CLEANOUT
[Symbol]	HOSE BIBB
[Symbol]	NON-FREEZE HOSE BIBB
[Symbol]	GATE VALVE
[Symbol]	BALL VALVE
[Symbol]	BUTTERFLY VALVE
[Symbol]	PRESSURE REDUCING VALVE
[Symbol]	LOCK VALVE
[Symbol]	CAP
[Symbol]	COMPRESSED AIR OUTLET
[Symbol]	BACKFLOW PREVENTER
[Symbol]	CIRCULATING VALVE
[Symbol]	MULTIPLE PIPES
[Symbol]	DENOTES NO. OF PIPES
[Symbol]	TEMPERATURE SENSOR
[Symbol]	THERMISTOR
[Symbol]	2-WAY MODULATING VALVE
[Symbol]	3-WAY MODULATING VALVE
[Symbol]	C/W 1/2" BUSHING 1/2" PLUG
[Symbol]	FLOOR ELEVATION ABOVE LEVEL
[Symbol]	FLOOR ELEVATION THIS LEVEL
[Symbol]	HEADROOM FLOOR TO US (FEET)

REVISIONS

NO.	DATE	DESCRIPTION	BY
1		ISSUED FOR PERMIT	EP
2		RE-ISSUED FOR PERMIT	EP
3		ISSUED FOR PERMIT	EP
4			BT

MARK: VOID ALL PRINTS DATED PREVIOUS TO FINAL DATE ABOVE

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 NOT BE REPRODUCED FOR COMPLETION OF THE WORK.

DRAWINGS ARE NOT TO BE SCALED

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DRAWING TITLE
2/F SOUTH MECHANICAL LAYOUT

PROJECT TITLE
60 ALEXANDRA PARK BLOCK II

38 CAMERON STREET
TORONTO

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

DATE: FEB. 13 PROJECT NUMBER: 1313 DRAWING NUMBER: M-12 OF 43

