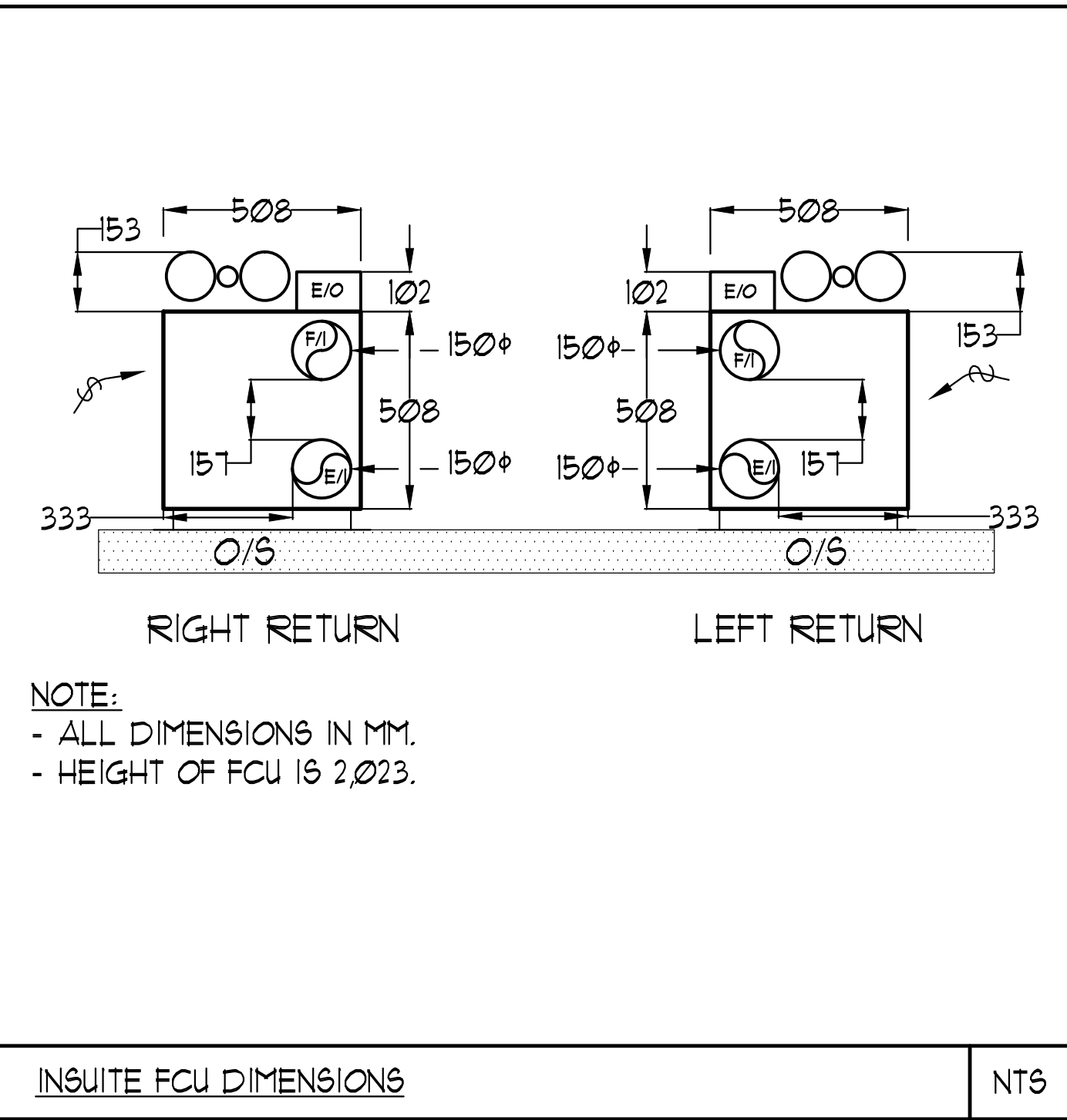
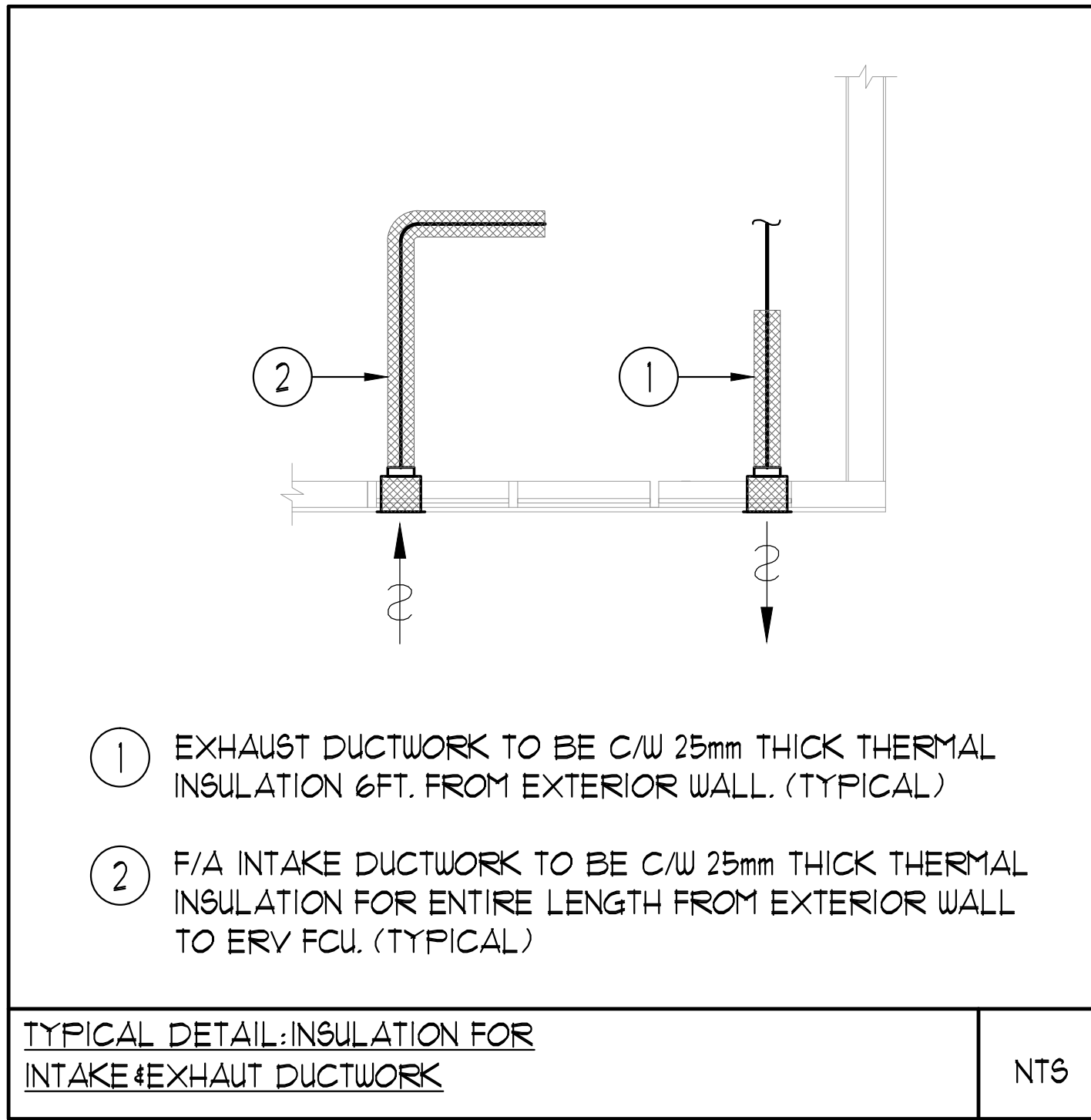




UNIT	NAME	AREA (SQ. FT.)	* OF UR	* OF FOLDER	SIZE (T)	FIXTURE UNITS	BR	SQ. FT./T
514	IC-D	520	2	0	1	16	1	520
515	IC-DC2	600	2	0	1	16	1	600
516	IC-DM	610	2	0	1	16	1	610
517	ID3	480	1	0	1	16	1	480
519	2GT	820	2	1	15	22	2	547
521	2FT	840	2	0	15	16	2	560
523	IC-DD	620	2	0	1	16	1	620
524	IC-DG	620	2	0	1	16	1	620
525	IL3	575	1	0	15	10	1	383
526	IL43	570	1	0	15	10	1	380
527	IL3	615	1	0	15	10	1	410

GRILLE SIZING TABLE			VERTICAL FAN COIL SIZE		
DESIGNATION	SIZE	L/S (UNLESS SPECIFIED OTHERWISE)	DESIGNATION	MODEL	W x D
SG-A	300x100	47-10	FCU-IT	450	508x660
SG-B	300x150	71-93	FCU-15T	600	508x660
SG-C	400x150	94-140	FCU-2T	800	508x660
SG-D	450x150	141-188	FCU-25T	1000	559x660
EG-A	150x150	35	FCU-3T	1200	559x660
W-1	225x200	210mm (L)	NOTE: A MIN. OF 125mm IS REQUIRED ON THE SIDE OF PIPE RISER.		
W-2	425x200	INSULATED			
W-3	625x200	WALL BOX			

DUCT SIZING TABLE (406 m/s, 800 FPM)		
DESIGNATION	L/S	DUCT SIZE
(A)	47	100x150
(B)	71	150x150
(C)	94	200x150
(D)	118	200x150
(E)	141	250x150
(F)	165	300x150

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

- GENERAL NOTES:
- CONTRACTOR SHALL CO-ORDINATE ARCHITECTURAL, STRUCTURAL, LIGHTING, HVAC, SPRINKLER DRAWINGS TO AVOID AREAS OF CONFLICT AND TO MAINTAIN CEILING 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 DRYER 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 313.1
 - 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 ERV FAN COIL UNIT.
 - DRYER EXHAUST DUCT SHALL BE SMOOTH AND CORROSION-RESISTANT MATERIAL (FLEXIBLE CONNECTION IS NOT ACCEPTABLE).

- ACOUSTIC NOTES:
- 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 = 2850mm
CLEAR PRODUCT = 2800mm
EXCEPT UNIT 503 CLEAR PRODUCT = 2550mm
UNITS 519/521: DRAINS FROM TERRACE ON 6/F

- NOTES:
- SOUTH F/A SHAFT FROM G/F TO 8/F. DUCT SERVING CORRIDOR FROM G/F TO 8/F. SEE PRESSURIZATION / VENTILATION RISER DIAGRAM FOR DETAILS.
 - 150° KITCHEN / DRYER / W/R / FCU INTAKE / FCU EXHAUST DUCT. (TYPICAL UNLESS OTHERWISE NOTED)
 - 15° GAS PIPE c/w VALVE AND CAP FOR BBQ.
 - 15° DCW FOR NFHS TO BE CONNECTED TO SUITE'S MAIN DCW LINE.
 - 100° RUL FROM ABOVE AND DOWN.
 - 150° RUL FROM ABOVE AND DOWN.
 - 100° RUL FROM ABOVE.
 - 100° STY 91%.
 - 100° RUL DOWN.
 - 150° RUL FROM ABOVE.
 - 150° RUL DOWN.
 - 150° STY 91%.

LEGEND MECHANICAL

SYMBOL	DESCRIPTION
[Symbol]	SUPPLY AIR DIFFUSER
[Symbol]	EXHAUST AIR DIFFUSER
[Symbol]	THRESHOLD SUPPLY DIFFUSER
[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]	BALANCE DAMPER
[Symbol]	HORIZONTAL DAMPER
[Symbol]	HORIZONTAL FIRE DAMPER
[Symbol]	BACKDRAFT DAMPER
[Symbol]	OPPOSED BLADE VOLUME CONTROL DAMPER
[Symbol]	TURNING VANE
[Symbol]	FLEXIBLE CONNECTION
[Symbol]	ACOUSTIC INSULATION
[Symbol]	TYPE OF EQUIPMENT
[Symbol]	TYPE OF DIFFUSER OR GRILLE
[Symbol]	VALVE SIZE OR DIFFUSER NECK SIZE
[Symbol]	WALLPEN (C/F OR U/F)
[Symbol]	STARTER / 3 PHASE / PHASE /
[Symbol]	IN-SUITE DRYER WASHER DRYER
[Symbol]	CO SENSOR
[Symbol]	GAS LINE
[Symbol]	GAS METER
[Symbol]	GAS COOK
[Symbol]	PRESSURE REDUCING VALVE
[Symbol]	BANITARY ABOVE GRADE
[Symbol]	BANITARY BELOW GRADE
[Symbol]	STORY ABOVE GRADE
[Symbol]	STORY BELOW GRADE
[Symbol]	DOMESTIC COLD WATER
[Symbol]	DOMESTIC HOT WATER
[Symbol]	DOMESTIC HOT WATER RECIRCULATION
[Symbol]	WATER METER
[Symbol]	FLOOR DRAIN
[Symbol]	PANTRY FLOOR DRAIN
[Symbol]	HUB DRAIN
[Symbol]	ROOF DRAIN
[Symbol]	BLVD DRAIN
[Symbol]	AREA DRAIN
[Symbol]	BI-LEVEL AREA DRAIN
[Symbol]	CATCH BASIN
[Symbol]	BASTARD TRAP
[Symbol]	ELBOW UP
[Symbol]	ELBOW DOWN
[Symbol]	WALL CLEANOUT
[Symbol]	FLOOR CLEANOUT
[Symbol]	HOSE BIBB
[Symbol]	NON-FREEZE HOSE BIBB
[Symbol]	GLOBE VALVE
[Symbol]	SAFETY VALVE
[Symbol]	SHALL VALVE
[Symbol]	BUTTERFLY VALVE
[Symbol]	PRESSURE REDUCING VALVE
[Symbol]	CHECK VALVE
[Symbol]	COR-PRESSURE AIR OUTLET
[Symbol]	BACKFLOW PREVENTER
[Symbol]	CIRCUIT BALANCING VALVE
[Symbol]	MULTIPLE PIPES
[Symbol]	TEMPERATURE SENSOR
[Symbol]	THERMISTOR
[Symbol]	2-WAY MODULATING VALVE
[Symbol]	3-WAY MODULATING VALVE
[Symbol]	1/2" MVD THERMISTOR
[Symbol]	C/W 1/2" BURNING 1/2" MVD
[Symbol]	FLOOR ELEVATION ABOVE LEVEL
[Symbol]	HEADROOM (FLOOR TO US HEIGHT)

REVISIONS

NO.	DATE	DESCRIPTION	BY
001	2015-01-13	ISSUED FOR SITE INSPECTION	EP
002	2015-01-13	ISSUED FOR TENDER	EP
003	2015-01-13	ISSUED FOR PERMIT	EP
004	2015-01-13	ISSUED FOR PERMIT	EP

NOVA TREND

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Fax: 905 882-5447

DRAWING TITLE: 5/F SOUTH MECHANICAL LAYOUT

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

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

DATE: FEB, 13 PROJECT NUMBER: 1313 DRAWING NUMBER: M-18 OF 43

