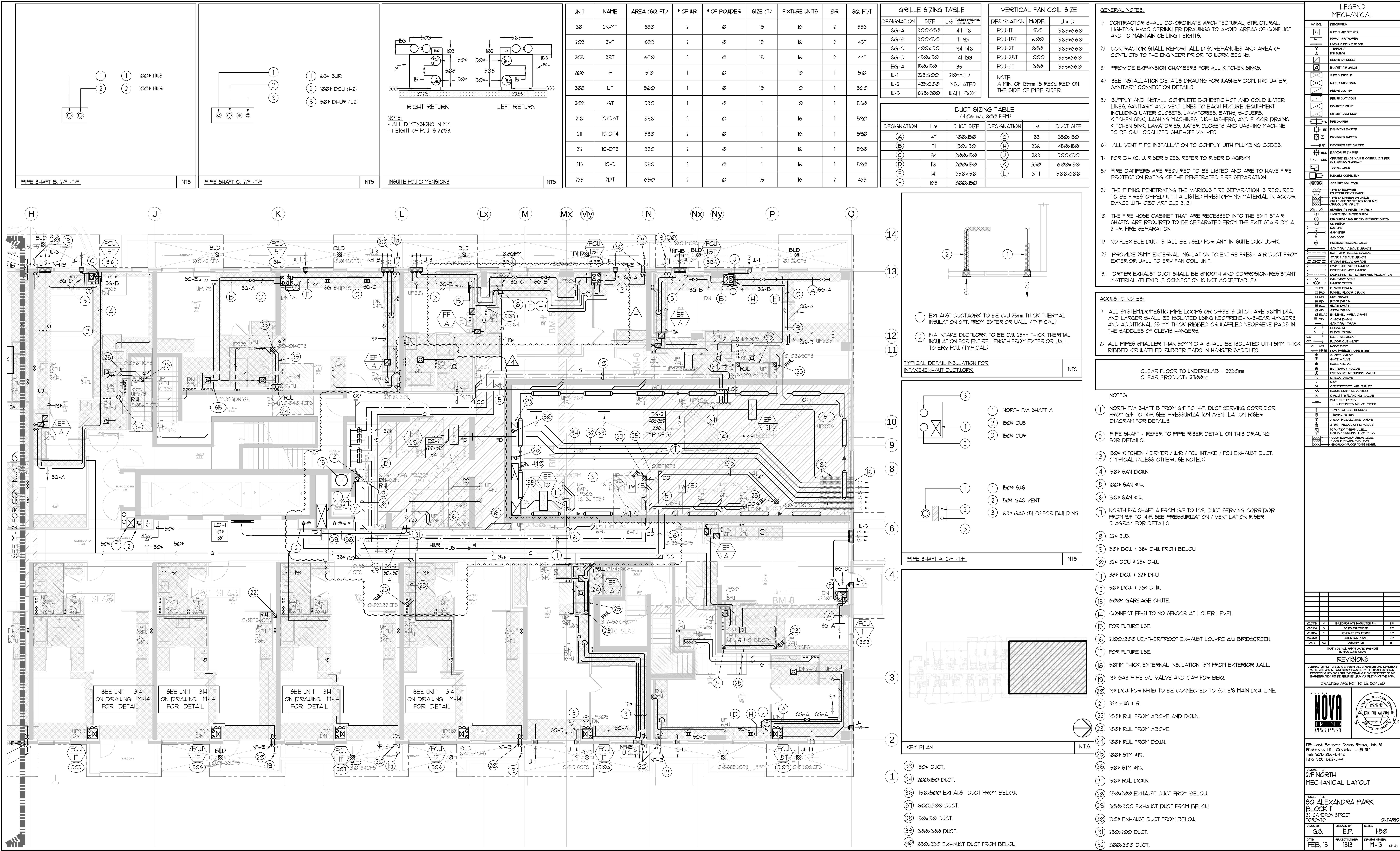




UNIT	NAME	AREA (SQ. FT.)	# OF UR	# OF POWDER	SIZE (T)	FIXTURE UNITS	BR	SQ. FT/T
201	2N-MT	830	2	0	15	16	2	553
202	2VT	655	2	0	15	16	2	437
205	2RT	670	2	0	15	16	2	447
206	IF	510	1	0	1	10	1	510
208	UT	560	1	0	15	10	1	560
209	IGT	530	1	0	1	10	1	530
210	IC-D6T	590	2	0	1	16	1	590
211	IC-DT4	590	2	0	1	16	1	590
212	IC-DT3	590	2	0	1	16	1	590
213	IC-D	590	2	0	1	16	1	590
228	2DT	650	2	0	15	16	2	433

GRILLE SIZING TABLE			VERTICAL FAN COIL SIZE		
DESIGNATION	SIZE	L/S (UNLESS SPECIFIED ELSEWHERE)	DESIGNATION	MODEL	W x D
SG-A	300x100	41-10	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 (4.06 m/s, 800 FPM)					
DESIGNATION	L/S	DUCT SIZE	DESIGNATION	L/S	DUCT SIZE
(A)	47	100x150	(G)	103	350x150
(B)	71	150x150	(H)	236	450x150
(C)	94	200x150	(J)	283	500x150
(D)	118	200x150	(K)	330	600x150
(E)	141	250x150	(L)	377	500x200
(F)	165	300x150			

- 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, H/C 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 OBC ARTICLE 3.13.1
 - 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 SYSTEM/DOMESTIC PIPE LOOPS OR OFFSETS WHICH ARE 50MM DIA. AND LARGER SHALL BE ISOLATED USING NEOPRENE-N-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 = 250mm
CLEAR PRODUCT = 2100mm

- NOTES:
- NORTH F/A SHAFT B FROM G/F TO 14/F. DUCT SERVING CORRIDOR FROM G/F TO 14/F. SEE PRESSURIZATION / VENTILATION RISER DIAGRAM FOR DETAILS.
 - PIPE SHAFT - REFER TO PIPE RISER DETAIL ON THIS DRAWING FOR DETAILS.
 - 150x KITCHEN / DRYER / W/R / FCU INTAKE / FCU EXHAUST DUCT. (TYPICAL UNLESS OTHERWISE NOTED)
 - 150x SAN DOWN
 - 100x SAN @1%
 - 150x SAN @1%
 - NORTH F/A SHAFT A FROM G/F TO 14/F. DUCT SERVING CORRIDOR FROM 3/F TO 14/F. SEE PRESSURIZATION / VENTILATION RISER DIAGRAM FOR DETAILS.
 - 32x SWS.
 - 50x DCW + 38x DHW FROM BELOW.
 - 32x DCW + 25x DHW.
 - 38x DCW + 32x DHW.
 - 50x DCW + 38x DHW.
 - 600x GARBAGE CHUTE.
 - CONNECT EF-21 TO NO SENSOR AT LOWER LEVEL.
 - FOR FUTURE USE.
 - 2100x800 WEATHERPROOF EXHAUST LOUVER c/w BIRDSCREEN.
 - FOR FUTURE USE.
 - 50MM THICK EXTERNAL INSULATION 15M FROM EXTERIOR WALL.
 - 15x GAS PIPE c/w VALVE AND CAP FOR BBQ.
 - 15x DCW FOR NFHB TO BE CONNECTED TO SUITE'S MAIN DCW LINE.
 - 32x HUB & R.
 - 100x RUL FROM ABOVE AND DOWN.
 - 100x RUL FROM ABOVE.
 - 100x RUL FROM DOWN.
 - 100x STM @1%.
 - 150x STM @1%.
 - 150x RUL DOWN.
 - 250x200 EXHAUST DUCT FROM BELOW.
 - 300x300 EXHAUST DUCT FROM BELOW.
 - 150x EXHAUST DUCT FROM BELOW.
 - 250x200 DUCT.
 - 300x300 DUCT.

LEGEND MECHANICAL

SYMBOL	DESCRIPTION
[Symbol]	SUPPLY AIR DIFFUSER
[Symbol]	SUPPLY AIR TROOPER
[Symbol]	LINEAR SUPPLY DIFFUSER
[Symbol]	THRESHOLD
[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]	HOTWATER DAMPER
[Symbol]	HOTWATER FIRE DAMPER
[Symbol]	BACKDRAFT DAMPER
[Symbol]	OPPOSED BLADE VOLUME CONTROL DAMPER
[Symbol]	C/S LOCKING DAMPER
[Symbol]	TURNING VANE
[Symbol]	FLEXIBLE CONNECTION
[Symbol]	ACOUSTIC INSULATION
[Symbol]	TYPE OF EQUIPMENT
[Symbol]	EQUIPMENT DESIGNATION
[Symbol]	TYPE OF RISER OR GRILLE
[Symbol]	VALVE SIZE OR DIFFUSER NECK SIZE
[Symbol]	WALL/CEILING/DOOR/SLAB
[Symbol]	STARTER / 3 PHASE / PHASE 1
[Symbol]	IN-SUITE DRY WATER SWITCH
[Symbol]	FAN SWITCH / IN-SUITE DRY OVERSEER BUTTON
[Symbol]	CO SENSOR
[Symbol]	GAS LINE
[Symbol]	GAS METER
[Symbol]	GAS COOK
[Symbol]	PRESSURE REDUCING VALVE
[Symbol]	SANITARY ABOVE GRADE
[Symbol]	SANITARY 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]	BLDG DRAIN
[Symbol]	AREA DRAIN
[Symbol]	BLDG LEVEL AREA DRAIN
[Symbol]	CATCH BASIN
[Symbol]	SANITARY TRAP
[Symbol]	ELBOW UP
[Symbol]	ELBOW DOWN
[Symbol]	FLOOR CLEANOUT
[Symbol]	HOSE BIBB
[Symbol]	NON-FRREEZE HOSE BIBB
[Symbol]	SLOPE VALVE
[Symbol]	GATE VALVE
[Symbol]	BALL VALVE
[Symbol]	BUTTERFLY VALVE
[Symbol]	PRESSURE REDUCING VALVE
[Symbol]	CHECK VALVE
[Symbol]	COP-PRESSURE AIR OUTLET
[Symbol]	BACKFLOW PREVENTER
[Symbol]	CIRCUIT BALANCING VALVE
[Symbol]	MULTIPLE PIPES
[Symbol]	1" OR MORE OF PIPES
[Symbol]	TEMPERATURE SENSOR
[Symbol]	THERMISTOR
[Symbol]	2-WAY ISOLATING VALVE
[Symbol]	3-WAY ISOLATING 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 EIGHT)

NO.	DATE	DESCRIPTION	BY
1	2015-02-27	ISSUED FOR SITE INSPECTION	EP
2	2015-03-03	ISSUED FOR TENDER	EP
3	2015-03-03	RE-ISSUED FOR PERMIT	EP
4	2015-03-03	ISSUED FOR PERMIT	EP
5	2015-03-03	DESCRIPTION	BY

MARK VED. ALL PRINTS DATE PREVIOUS TO FINAL DATE ABOVE

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: 2/F NORTH 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-13 OF 43