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PRECISION TESTING & BALANCING INC.

VENTILATION TEST REPORT

Job Name MAYOR'S OFFICE OF EMERGENCY MGM'T **DATE** March 2, 19

System AC - 4 equipment room

DWG	AREA SERVED	OPENING NO	OPENING SIZE	OPENING TYPE	K FACTOR	REQUIRED VEL	REQUIRED CFM	FINAL VEL	FINAL CFM	REMARKS
M1 -23	23rd Flr.									
M1-23	49th Flr.	1	15X15	CD	DR1		860		840	
M1-23	49th Flr.	2	15X15	CD	DR1		860		825	
M1-23	49th Flr.	3	15X15	CD	DR1		860		850	
M1-23	50th Flr	4	15x15	CD	DR1		710		700	
M1-23	50th Flr.	5	15X15	CD	DR1		710		725	
									3940 cfm	
									4,000 → run + idle	
						OK				

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PRECISION TESTING & BALANCING INC.

VENTILATION TEST REPORT

Job Name MAYOR'S OFFICE OF EMERGENCY MGMT DATE March 2, 19

System AC - 5 water Command

DWG	AREA SERVED	OPENING NO	OPENING SIZE	OPENING TYPE	K FACTOR	REQUIRED VEL	REQUIRED CFM	FINAL VEL	FINAL CFM	REMARKS
11-23	23rd Flr.	1	9X9	CD	DR1		150		140	
11-23	49th Flr	2	9X9	GD	DR1		150		155	
11-23	50th Flr.	3	9X9	CD	DR1		150		150	
11-23	51st Flr	4	9X9	CD	DR1		250		230	
11-23	1st Flr	5	12X12	CD	DR1		360		340	
11-23	52nd Flr	6	12X12	CD	DR1		360		360	
11-23	52nd Flr	7	12X12	CD	DR1		450		425	
11-23	52nd Flr	8	12x12	CD	DR1		450		450	
11-23	52nd Flr	9	12X12	CD	DR1		450		430	
11-23	52nd Flr	10	12X12	CD	DR1		390		360	
11-23	52nd Flr	11	12X12	CD	DR1		390		375	
11-23	52nd Flr	12	12X12	CD	DR1		450		450	
									3865	
					RETURN					
1	AC - 6	1					3400		3260	
									405	

NYC-WTC_000174148

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PRECISION TESTING & BALANCING INC.

VENTILATION TEST REPORT

Job Name MAYOR'S OFFICE OF EMERGENCY MGM'T **DATE** March 2, 199

System AC - 6 Press room

DWG	AREA SERVED	OPENING NO	OPENING SIZE	OPENING TYPE	K FACTOR	REQUIRED VEL	REQUIRED CFM	FINAL VEL	FINAL CFM	REMARKS
fl-23	23rd Flr									
fl-23	Press Rm.	1	15X15	CD	DR1		500		480	
fl-23	Press Rm.	2	15X15	CD	DR1		500		525	
fl-23	Press Rm.	3	15X15	CD	DR1		500		510	
fl-23	Press Rm.	4	15X15	CD	DR1		500		510	
fl-23	Press Rm.	5	15X15	CD	DR1		500		500	
fl-23	Press Rm.	6	15X15	CD	DR1		500		500	
									3025 cfm	
					RETURN					
1	AC - 6	1					2550		2360	
									Rear of	

accuracy 95%

95% Capacity

Missing

1. exhaust fans.
2. toilet exhaust
3. [illegible] EPB-29
4.

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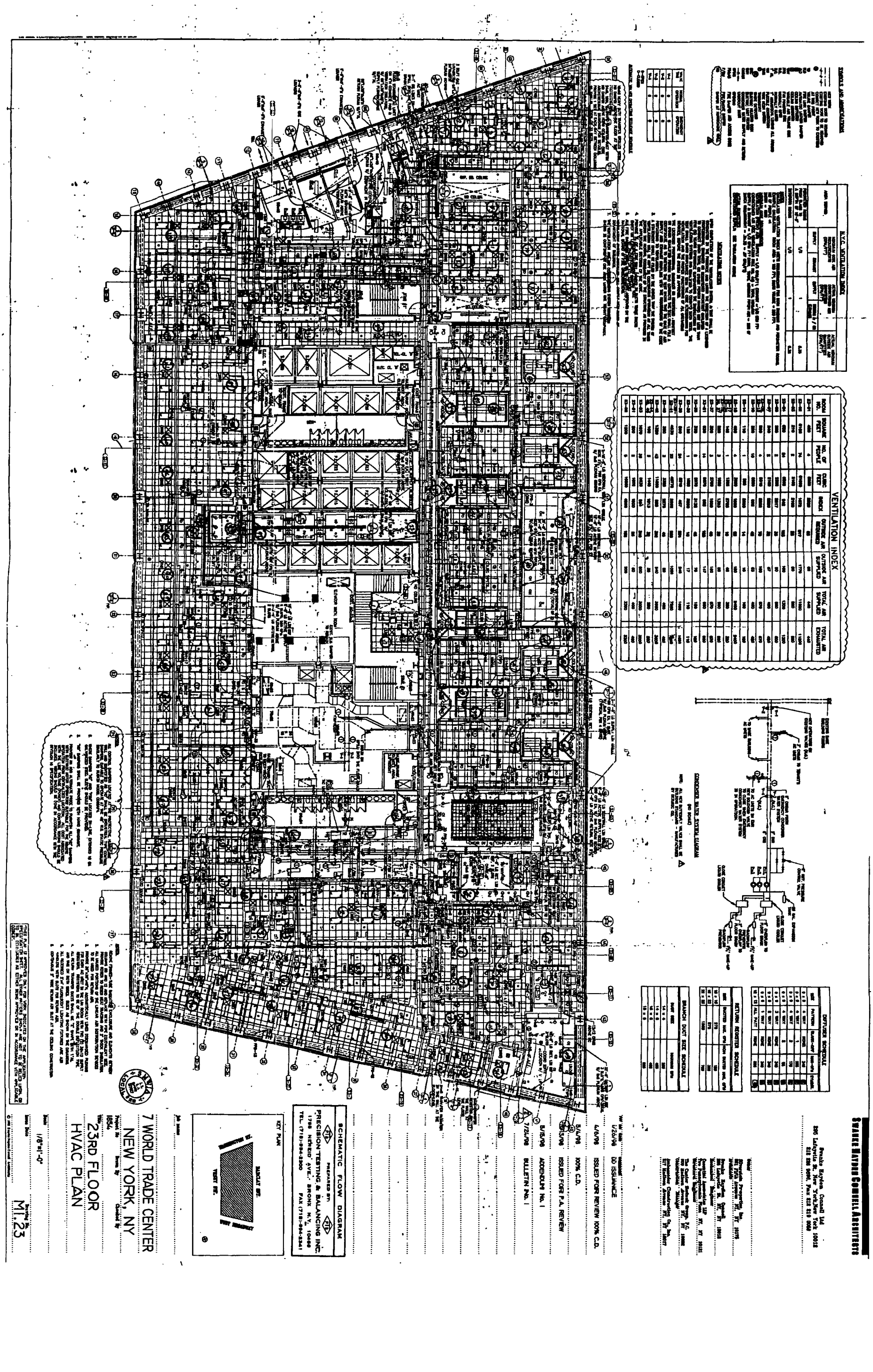

SYMBOLS AND ABBREVIATIONS

AUTOMATIC SMOKE DETECTING SENSOR, ADDRESS

VENTILATION INDEX

ROOM NO.	OCCUPANCY	AREA SQ. FEET	No. OF PEOPLE	CUBIC FEET	MECH OUTSIDE AIR REQUIRED	OUTSIDE AIR SUPPLIED	TOTAL AIR SUPPLIED	TOTAL AIR EXHAUSTED
03-01		400	4	3600	60	60	1200	1200
03-02		2160	74	19440	185	1775	11000	11000
03-03		370	3	3330	30	95	1000	1000
03-04		370	3	3330	30	95	1000	1000
03-05		370	3	3330	30	95	1000	1000
03-06		370	3	3330	30	95	1000	1000
03-07		370	3	3330	30	95	1000	1000
03-08		370	3	3330	30	95	1000	1000
03-09		370	3	3330	30	95	1000	1000
03-10		370	3	3330	30	95	1000	1000
03-11		370	3	3330	30	95	1000	1000
03-12		370	3	3330	30	95	1000	1000
03-13		370	3	3330	30	95	1000	1000
03-14		370	3	3330	30	95	1000	1000
03-15		370	3	3330	30	95	1000	1000
03-16		370	3	3330	30	95	1000	1000
03-17		370	3	3330	30	95	1000	1000
03-18		370	3	3330	30	95	1000	1000
03-19		370	3	3330	30	95	1000	1000
03-20		370	3	3330	30	95	1000	1000
03-21		370	3	3330	30	95	1000	1000
03-22		370	3	3330	30	95	1000	1000
03-23		370	3	3330	30	95	1000	1000
03-24		370	3	3330	30	95	1000	1000
03-25		370	3	3330	30	95	1000	1000
03-26		370	3	3330	30	95	1000	1000
03-27		370	3	3330	30	95	1000	1000
03-28		370	3	3330	30	95	1000	1000
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03-31		370	3	3330	30	95	1000	1000
03-32		370	3	3330	30	95	1000	1000
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03-40		370	3	3330	30	95	1000	1000
03-41		370	3	3330	30	95	1000	1000
03-42		370	3	3330	30	95	1000	1000
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03-45		370	3	3330	30	95	1000	1000
03-46		370	3	3330	30	95	1000	1000
03-47		370	3	3330	30	95	1000	1000
03-48		370	3	3330	30	95	1000	1000
03-49		370	3	3330	30	95	1000	1000
03-50		370	3	3330	30	95	1000	1000
03-51		370	3	3330	30	95	1000	1000
03-52		370	3	3330	30	95	1000	1000
03-53		370	3	3330	30	95	1000	1000
03-54		370	3	3330	30	95	1000	1000
03-55		370	3	3330	30	95	1000	1000
03-56		370	3	3330	30	95	1000	1000
03-57		370	3	3330	30	95	1000	1000
03-58		370	3	3330	30	95	1000	1000
03-59		370	3	3330	30	95	1000	1000
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03-61		370	3	3330	30	95	1000	1000
03-62		370	3	3330	30	95	1000	1000
03-63		370	3	3330	30	95	1000	1000
03-64		370	3	3330	30	95	1000	1000
03-65		370	3	3330	30	95	1000	1000
03-66		370	3	3330	30	95	1000	1000
03-67		370	3	3330	30	95	1000	1000
03-68		370	3	3330	30	95	1000	1000
03-69		370	3	3330	30	95	1000	1000
03-70		370	3	3330	30	95	1000	1000
03-71		370	3	3330	30	95	1000	1000
03-72		370	3	3330	30	95	1000	1000
03-73		370	3	3330	30	95	1000	1000
03-74		370	3	3330	30	95	1000	1000
03-75		370	3	3330	30	95	1000	1000
03-76		370	3	3330	30	95	1000	1000
03-77		370	3	3330	30	95	1000	1000
03-78		370	3	3330	30	95	1000	1000
03-79		370	3	3330	30	95	1000	1000
03-80		370	3	3330	30	95	1000	1000
03-81		370	3	3330	30	95	1000	1000
03-82		370	3	3330	30	95	1000	1000
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03-84		370	3	3330	30	95	1000	1000
03-85		370	3	3330	30	95	1000	1000
03-86		370	3	3330	30	95	1000	1000
03-87		370	3	3330	30	95	1000	1000
03-88		370	3	3330	30	95	1000	1000
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03-90		370	3	3330	30	95	1000	1000
03-91		370	3	3330	30	95	1000	1000
03-92		370	3	3330	30	95	1000	1000
03-93		370	3	3330	30	95	1000	1000
03-94		370	3	3330	30	95	1000	1000
03-95		370	3	3330	30	95	1000	1000
03-96		370	3	3330	30	95	1000	1000
03-97		370	3	3330	30	95	1000	1000
03-98		370	3	3330	30	95	1000	1000
03-99		370	3	3330	30	95	1000	1000
03-100		370	3	3330	30	95	1000	1000

N.Y.C. VENTILATION INDEX

ROOM NO.	OCCUPANCY	AREA SQ. FEET	No. OF PEOPLE	CUBIC FEET	ACTUAL MECHANICAL OUTSIDE AIR QUANTITY CFM	ACTUAL MECHANICAL SUPPLY CFM	ACTUAL MECHANICAL EXHAUST CFM
03-01		400	4	3600	60	1200	1200
03-02		2160	74	19440	1775	11000	11000
03-03		370	3	3330	95	1000	1000
03-04		370	3	3330	95	1000	1000
03-05		370	3	3330	95	1000	1000
03-06		370	3	3330	95	1000	1000
03-07		370	3	3330	95	1000	1000
03-08		370	3	3330	95	1000	1000
03-09		370	3	3330	95	1000	1000
03-10		370	3	3330	95	1000	1000
03-11		370	3	3330	95	1000	1000
03-12		370	3	3330	95	1000	1000
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03-14		370	3	3330	95	1000	1000
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03-17		370	3	3330	95	1000	1000
03-18		370	3	3330	95	1000	1000
03-19		370	3	3330	95	1000	1000
03-20		370	3	3330	95	1000	1000
03-21		370	3	3330	95	1000	1000
03-22		370	3	3330	95	1000	1000
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03-27		370	3	3330	95	1000	1000
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03-31		370	3	3330	95	1000	1000
03-32		370	3	3330	95	1000	1000
03-33		370	3	3330	95	1000	1000
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03-40		370	3	3330	95	1000	1000
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03-42		370	3	3330	95	1000	1000
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03-45		370	3	3330	95	1000	1000
03-46		370	3	3330	95	1000	1000
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03-54		370	3	3330	95	1000	1000
03-55		370	3	3330	95	1000	1000
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03-58		370	3	3330	95	1000	1000
03-59		370	3	3330	95	1000	1000
03-60		370	3	3330	95	1000	1000
03-61		370	3	3330	95	1000	1000
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03-63		370	3	3330	95	1000	1000
03-64		370	3	3330	95	1000	1000
03-65		370	3	3330	95	1000	1000
03-66		370	3	3330	95	1000	1000
03-67		370	3	3330	95	1000	1000
03-68		370	3	3330	95	1000	1000
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03-82		370	3	3330	95	1000	1000
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03-85		370	3	3330	95	1000	1000
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03-90		370	3	3330	95	1000	1000
03-91		370	3	3330	95	1000	1000
03-92		370	3	3330	95	1000	1000
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03-94		370	3	3330	95	1000	1000
03-95		370	3	3330	95	1000	1000
03-96		370	3	3330	95	1000	1000
03-97		370	3	3330	95	1000	1000
03-98		370	3	3330	95	1000	1000
03-99		370	3	3330	95	1000	1000
03-100		370	3	3330	95	1000	1000

CONDENSER WATER SYSTEM DIAGRAM

DIFFUSER SCHEDULE

SIZE	PATTERN	MAXIMUM CFM	MIN CFM	FINISH
12 x 12	4 WAY	600	300	
12 x 12	4 WAY	600	300	
12 x 12	4 WAY	600	300	
12 x 12	4 WAY	600	300	
12 x 12	4 WAY	600	300	
12 x 12	4 WAY	600	300	
12 x 12	4 WAY	600	300	
12 x 12	4 WAY	600	300	
12 x 12	ALL PATT	600	300	

RETURN REGISTER SCHEDULE

SIZE	RATED MAX CFM	MIN RATED MAX CFM
12 x 12	575	150
24 x 24	575	300
36 x 36	1500	750

BRANCH DUCT SIZE SCHEDULE

DUCT SIZE	MAXIMUM CFM
12 x 6	600
14 x 6	700
16 x 6	800
18 x 6	900

SCHEMATIC FLOW DIAGRAM

PREPARED BY:
PRECISION TESTING & BALANCING INC.
1758 NEREID AVE., BRONX N.Y. 10469
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KEY PLAN

MARCAT ST.

VESEY ST.

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JAMAICAN

Structural Engineer
Severud Associates NY, NY 10022

Mechanical Engineer
The Office Network Group, P.C. NY, NY 10006
Mechanical Engineer

Electrical Engineer
Jaros, Baum & Bolles NY, NY 10007
Electrical Engineer

NO.	DESCRIPTION	DATE
	100% C.D.	5/4/98
	ISSUED FOR P.A. REVIEW	5/5/98
1	ADDENDUM No. 1	5/15/98
2	BULLETIN No. 1	7/24/98
	DD ISSUANCE	1/26/98
	ISSUED FOR REVIEW 100% C.D.	4/6/98

7 WORLD TRADE CENTER
NEW YORK, NY
Project No. 9854
Drawn By
Checked By
23RD FLOOR
HVAC PLAN
Scale 1/8"=1'-0"
Drawing No. M1.23

NYC-WTC_000174150