

KEY OF SYMBOLS

[illegible]

SYMBOLS AND ABBREVIATIONS

A/C		AIR CONDITIONING SYSTEM	
ACS	RETURN SPLIT	—CHWS—	CHILLED WATER SUPPLY
R/S	RETURN SPLIT	—CHWR—	CHILLED WATER RETURN
V	VENTILATION	—CMS—	CONDENSER WATER SUPPLY
BDD	BACK DRAFT DAMPER	—CWR—	CONDENSER WATER RETURN
TRGR.	TRANSFER AIR GRILLE	—E—	EXHAUST LINE
GX	GENERAL EXHAUST	—D—	DRAIN LINE
TX	TOILET EXHAUST	—V—	VENT
KX	KITCHEN EXHAUST	—FOS—	FUEL OIL SUPPLY
ST	SOUND TRAP	—FOR—	FUEL OIL RETURN
TF	TRANSFER FAN	—	PIPE TURNING UP
P	PUMP	—	PIPE TURNING DOWN
ME	MECHANICAL EQUIPMENT ROOM	—G—	GATE VALVE
EMR	ELEVATOR MACHINE ROOM	—G—	GATE VALVE
UH	UNIT HEATER	—G—	GLOBE (R LUBRICATED) PLUG VALVE
TH	TERMOSTAT	—A—	AUTOMATIC CONTROL VALVE
(H)	HUMIDISTAT	—A—	AUTOMATIC CONTROL VALVE (TWO WAY)
NIS	NOT TO SCALE	—A—	AUTOMATIC CONTROL VALVE (THREE WAY)
CC	COOLING COIL	—E—	SOLENOID VALVE
FC	FLEXIBLE CONNECTION	—P—	PRESSURE REDUCING VALVE
CD	CEILING DIFFUSER	—F—	BUTTERFLY VALVE
CR (G)	CEILING REGISTER (GRILLE)	—C—	CHECK VALVE
TR (G)	TOP REGISTER (GRILLE)	—S—	STRAINER WITH BLOW OFF VALVE
BR (G)	BOTTOM REGISTER (GRILLE)	—A—	SAFETY RELIEF VALVE
F	FUSIBLE LINK	—A—	ANCHOR
PB	REGISTER BICY OPPOSED BLADE DAMPER	—A—	PIPE GUIDE
VD	VOLUME DAMPER	—A—	BALL JOINT
FD	FIRE DAMPER	—A—	
AD	ACCESS DOOR	—A—	
ALD	AUTOMATIC LOWER DAMPER	—A—	
ALWS	METAL LOWER WIRE SCREEN	—A—	
FAL	FRESH AIR WYAKE	—A—	
CR	CONSTANT VOLUME REGULATOR	—A—	
VAV	VARIABLE AIR VOLUME BOXES	—A—	
1—D	DOOR LOWER (SQ. FT.)	—A—	
1—D	UNDERFLOOR DOOR (SQ. FT.)	—A—	
AL	ACOUSTIC LINING	—A—	
M	MOTOR	—A—	
MC	MASONRY OPENING	—A—	
MC	MC IN CONTRACT	—A—	
AF	ABOVE FINISHED FLOOR	—A—	
BI	BELT IN CONTRACT	—A—	
9-SD	SMOKE DETECTOR	—A—	
WMS	WIRE MESH SCREEN	—A—	
NO.	NORMALLY CLOSED	—A—	
NO.	NORMALLY OPEN	—A—	
MC	MC IN CONTRACT	—A—	

1) ALL METAL JOINTS & WIRE MESH SCREENS (BIRD SCREENS & ALL SCREENS REQUIRED FOR INACTIVE PORTIONS OF LOWERS) WILL BE PROVIDED UNDER ANOTHER SECTION OF THIS SUBCONTRACTOR SHALL COORDINATE WITH THE APPROPRIATE CONTRACTOR FOR EXACT SIZES AND LOCATIONS OF ACTIVE PORTIONS.

2) UNLESS OTHERWISE NOTED ON THE PLANS, ALL DIFFUSERS, GUILLES, REGISTERS SHALL BE OPEN OR AS APPROVED. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS USED IN ACCORDANCE WITH THE FOLLOWING TABLE:

A. CEILING SUPPLY DIFFUSERS (TYPICAL)

FRAME STYLE 3 MARKS WITH EXPOSED T-BAR LAY INCLINING.

CFM RANGE	NECT SIZE	FACE SIZE (4"x4")
0 - 140	5"	2 1/4 x 2 1/4
141 - 100	7"	2 1/4 x 2 1/4
101 - 160	8"	2 1/4 x 2 1/4
161 - 260	8"	2 1/4 x 2 1/4
261 - 360	8"	2 1/4 x 2 1/4

B. FOR OTHER AREA'S FRAME STYLE 1, (CONCEALED PLINE OR GYP BOARD)

CFM RANGE	NECT SIZE	FACE SIZE
0 - 30	5"	12 x 12
31 - 160	6"	12 x 12
161 - 210	7"	12 x 12
211 - 210	7"	12 x 12

4) THE LAYOUTS SHOWN IN THE OCCUPIED AREAS ARE SHOWN FOR BIDDING PURPOSES ONLY. ACTUAL SHALL BE INSTALLED IN ACCORDANCE WITH FUTURE "TENTANT IMPROVEMENTS" INCLUDED AS PART OF BASE BID. "TENTANT IMPROVEMENT" DUCTWORK DISTRIBUTION INCLUDES ALL DUCTWORK, VAN BOXES, DIFFUSERS, GUILLES, REGISTERS (LOWERS), APPURTENANCES, AS WELL AS PROVIDING SHIP DRAWINGS, TESTING, BALANCING AND ADJUSTING, FOR THE COMPLETE INSTALLATION OF THE SYSTEMS, DESIGNED PER OWNER'S NEEDS. THE TOTAL LENGTH OF EACH DUCTWORK DOES NOT EXCEED THAT SHOWN.

5) FOR SIZES OF MOTOR CONTROL CENTERS (MCC) AND ARRANGEMENT AND/OR GROUPING OF STARTERS SEE THE ELECTRICAL DRAWING E-26.

Norwalk
Building 43

Norwalk, California

Skidmore, Owings & Merrill
Architects/Engineers
One Maritime Plaza
San Francisco, California

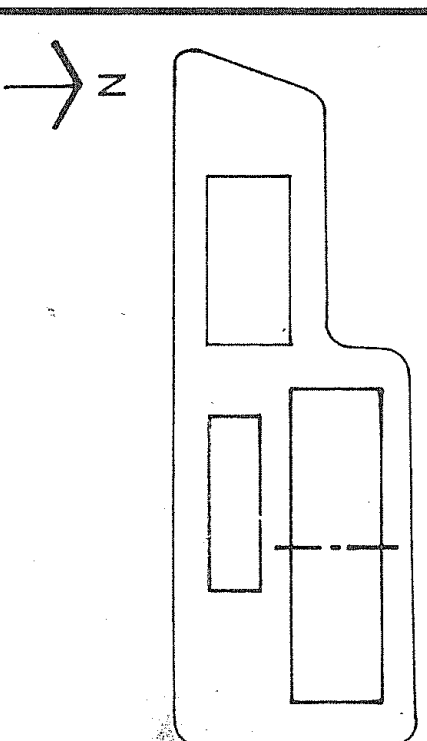
Consulting Engineer
345 Park Avenue
New York, New York

Approved for the Owner by _____	
Approved for the Architect by _____	
Drawn by _____	Job Number _____
Checked by _____	Date _____
Revisions	
No.	Revisions Indicated Thus Δ:
1	ISSUED FOR BID 12/15/81
2	ADDENDUM 2.3 2/10/82

	ADDENDUM # 66 REVISED AS PER BUILDING DEPT. COMMENTS.	G/10/82	6/19/82
	ADDENDUM NO. 46	G/10/82	
	ADDENDUM NO. 61		7/13/82
	ADDENDUM # 66 ISSUED RE BUILDING PERMIT		9/5/82
	ADDENDUM # 71 SENT BY ACCT OF DISCREPANCY IN BIDDING		8/1/82
	ADDENDUM # 74		9/13/82
	ADDENDUM # 77		10/21/82
	ADDENDUM # 78		10/21/82
	ADDENDUM # 106		2/8/83
	ADDENDUM # 106	B/S/83	3/1/83
	ADDENDUM # 107		4/15/83

BECHTEL

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TITLE SHEET

SCALE: NONE

HVAC-1