

CITY OF SACRAMENTO

Permit No: 0505092

1231 I Street, Sacramento, CA 95814

Insp Area: 4

Site Address: 4381 GATEWAY PARK BL SAC St: #560

Thos Bros:

Parcel No: 225-1620-027 SUITE 560

Sub-Type: TI

Housing (Y/N): N

CONTRACTOR  
S K LARSON INC  
P O BOX 615  
COOL CA 95614

OWNER  
M & E GATEWAY LLC  
1610 ARDEN WAY STE 240  
SACRAMENTO CA 95815

ARCHITECT  
TED WALKER (WALKER ARCHITECT)  
P.O. BOX 189681  
SACRAMENTO, CA. 95898

Nature of Work: TI FOR BEAUTY SALON & SUPPLY

CONSTRUCTION LENDING AGENCY: I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name

Lender's Address

LICENSED CONTRACTORS DECLARATION: I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with section 7000) of Division 3 of the Business and Professions Code and my license is in full force and effect.

License Class A-B-C-10 License Number 518350 Date \_\_\_\_\_ Contractor Signature [Signature]

OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractors License Law for the following reason (Sec. 7031.5, Business and Professions Code; any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500.00);

I, as a owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business and Professional Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his/her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he/she did not build or improve for the purpose of sale.)

I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 1049, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law).

I am exempt under Sec. \_\_\_\_\_ B & PC for this reason: \_\_\_\_\_

Date \_\_\_\_\_ Owner Signature \_\_\_\_\_

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of a ny improvement or the violation of any private agreement relating to location of improvements.

I certify that I have read this application and state that all information is correct. I agree to comply with all city and county ordinances and state laws relating to building construction and herby authorize representative(s) of this city to enter upon the abovementioned property for inspection purposes.

Date \_\_\_\_\_ Applicant/Agent Signature \_\_\_\_\_

WORKER'S COMPENSATION DECLARATION: I hereby affirm under penalty of perjury one of the following declarations:

I have and will maintain a certificate of consent to self-insure for workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued.

I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier STATE COMP INS FUND Policy Number 713-0010649 Exp Date 12/01/2005

(This section need not be completed if the permit is for \$100 or less) I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date 8-18-05 Applicant Signature [Signature]

WARNING: FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000) IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST AND ATTORNEY'S FEE.

THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS

# Certified Test, Adjust, Balance Report

Gateway - Suites 540 & 550  
4381 Gateway Park Drive  
Sacramento, CA



FINAL AIR BALANCE CO., INC  
License# 777985



Certified 3222



Certified BB104006C

**FINAL AIR BALANCE CO., INC**  
**Testing & Balancing – Industrial & Environmental Systems**  
13020 Piper Hill Dr. Penn Valley, CA 95946  
Ph: (530) 432-2226 Fax: (530) 432-2901

**CERTIFIED TEST, ADJUST, BALANCE REPORT  
FOR**

Gateway - Suites 540 & 550  
4381 Gateway Park Drive  
Sacramento, CA

Architect:

Engineer:

Contractor: S.K. Larson, Inc.

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The data represented in this report is a record of system measurements and final adjustments that have been obtained in accordance with the current edition of the *NEBB Procedural Standards for Testing, Adjusting, and Balancing of Environmental Systems*. Any variances from design quantities, which exceed NEBB tolerances, are noted in the Test, Adjust, Balance Report Summary.

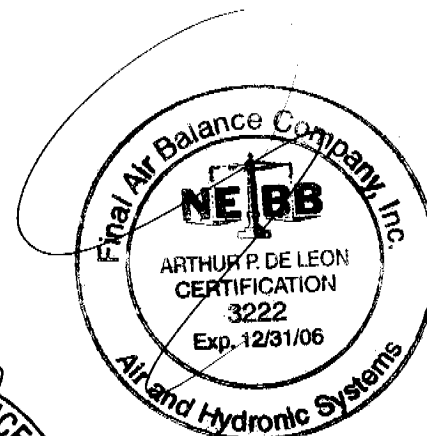
NEBB Certification: 3222

TABB Certification: BB104006C

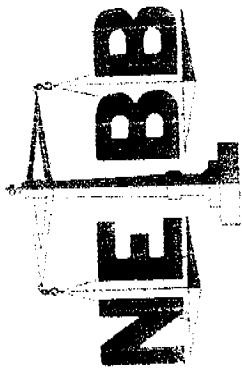
Date : 12/1/05

FAB Job Number: 0512J607

Approved : Art De Leon



**National Environmental Balancing Bureau**



**Certificate of Recertification**

THIS IS TO CERTIFY THAT

**Final Air Balance Company, Inc.**  
in Penn Valley, CA

HAS MET ALL REQUIREMENTS FOR RENEWAL OF NEBB  
CERTIFICATION IN THE FOLLOWING DISCIPLINE

*Air and Hydronics Systems*

FOR THE BOARD OF DIRECTORS:

2004 - 2006  
Final Air Balance Company, Inc./ CA

No. 3222  
NEBB Cert. No.

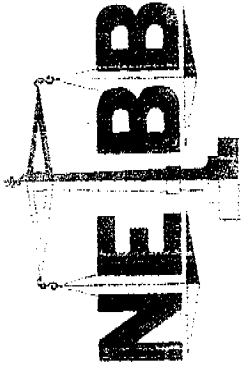


President



President-Elect

**National Environmental Balancing Bureau**



**Certificate of Requalification**

THIS IS TO CERTIFY THAT

**Arthur P. De Leon**

with Final Air Balance Company, Inc. in Penn Valley, CA

HAS QUALIFIED TO SUPERVISE ENVIRONMENTAL  
TESTING AND BALANCING FOR

*Air and Hydronics Systems*

FOR THE BOARD OF DIRECTORS:

2004 - 2006

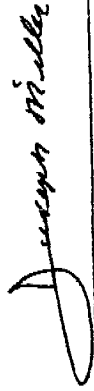
Final Air Balance Company, Inc./CA

No. 3222

NEBB Cert. No.

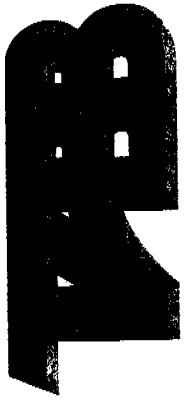
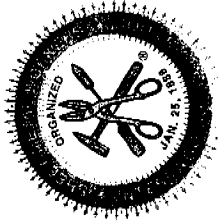


President



President-Elect

# Testing Adjusting and Balancing Bureau



TESTING, ADJUSTING AND BALANCING BUREAU  
"THE PROFESSIONAL'S CHOICE"



*This certifies that*

*Final Air Balance Co., Inc.*

*is a certified Testing, Adjusting, and Balancing Contractor since*

*April 1, 2003*

*and has met all the qualifications for renewal on this date of*

*March 4, 2005*

  
Labor Co-Chairman

  
Administrator of TABB

BB104006C

Certification No.



  
Management Co-Chairman

  
Director of Certification

3/31/2007

Expiration Date

**FINAL AIR BALANCE CO., INC**  
**Testing & Balancing – Industrial & Environmental Systems**  
13020 Piper Hill Dr. Penn Valley, CA 95946  
Ph: (530) 432-2226 Fax: (530) 432-2901

## **Performance Guarantee**

Pursuant to the agreement between

**FINAL AIR BALANCE CO., INC.**

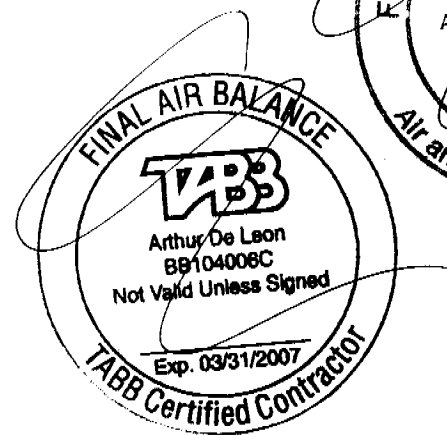
And

**S.K. Larson, Inc.**

All systems shall be balanced in accordance with the plans and specifications and to the optimum performance capabilities of the equipment and design. Testing and balancing shall be done in accordance with the standards published by the National Environmental Balancing Bureau.

Air Balance performed by Final Air Balance Co., Inc. shall be guaranteed for one year. This applies to all equipment and air distribution per specifications on the Certified Test, Adjust, Balance Report. Any problems will be investigated and corrected at no additional charge. This guarantee is void if the systems involved are changed in any way or adjusted by another person(s), facilities, or another air balance company.

Project Name            Gateway - Suites 540 & 550  
Date                        12/1/05  
By                            Arthur De Leon



**FINAL AIR BALANCE CO., INC**  
**Testing & Balancing – Industrial & Environmental Systems**  
 13020 Piper Hill Dr. Penn Valley, CA 95946  
 Ph: (530) 432-2226 Fax: (530) 432-2901

**TEST AND BALANCE INSTRUMENTATION**

The following ***bold/italicized*** instruments were used to successfully measure and set each device on this project. These instruments meet the National Environmental Balancing Bureau's minimum guidelines for accuracy and calibration.

Instrument	Manufacturer	Model	Serial number	Calibration Date
<b><i>Air Data Multimeter</i></b>	<b><i>Shortridge</i></b>	<b><i>ADM870C</i></b>	<b><i>M02540</i></b>	<b><i>7/20/05</i></b>
Air Data Multimeter	Shortridge	ADM870C	M00755	9/19/05
Amp/Volt Meter – Digital	Fluke	337 AC/DC True RMS	85910057	6/18/04
Amp/Volt Meter – Digital	Fluke	36 AC/DC True RMS	78203394	7/22/05
<b><i>Amp/Volt Meter – Digital</i></b>	<b><i>Fluke</i></b>	<b><i>336 AC/DC True RMS</i></b>	<b><i>80904943</i></b>	<b><i>1/28/05</i></b>
Duct Leakage Test Kit with Oriface Tube 4" Oriface Tube 4"	McGill Airflow	LTK-SCA 2" 1 1/16"	48608 2310-S 2861-S	N/A N/A N/A
Flow Hood – Analog	Alnor	6461	3845/1735	12/23/03
<b><i>Flow Hood - Digital</i></b>	<b><i>Shortridge</i></b>	<b><i>8400</i></b>	<b><i>M02540</i></b>	<b><i>7/20/05</i></b>
Flow Hood - Digital	Shortridge	8400	M00755	9/19/05
Hydronic Manometer	Alnor	HM650	393	1/7/05
Hydronic Manometer	Alnor	HM680	70536221	9/16/05
Manometer - Digital	Dwyer	475-1	N45N / 3209	7/22/05
Pitot Tube	Dwyer	18"	-----	N/A
Pitot Tube	Dwyer	36"	-----	N/A
Pitot Tube	Dwyer	48"	-----	N/A
Pitot Tube	Dwyer	60"	-----	N/A
Pressure Gauge – Digital	PSI-Tronix	PG2000CG	3208	1/28/05
Pressure Gauge – Digital	PSI-Tronix	PG2000CG	8024652-1	7/22/05
Sound Level Meter	Extech	407764	020620718	8/21/02
Sound Level Calibrator	Extech	407766	P879365	8/21/02
Tachometer - Digital	Monarch	Tach-100	1354512	7/22/05
<b><i>Tachometer - Digital</i></b>	<b><i>Monarch</i></b>	<b><i>Tach-100</i></b>	<b><i>1354509</i></b>	<b><i>1/28/05</i></b>
Tachometer - Digital	Monarch	Tach-100	1355786	1/28/05
Thermo Anemometer - Digital	Dwyer	471-3	N-210	1/28/05
Thermometer – Non contact	Raytek	RAYST20	2039480201-0001	1/28/05
Thermometer – Thermocouple	Fluke	51-II	80390110	1/28/05



## Definitions of Abbreviations, Terminology, and Symbols

A	Nameplate Amps	FD	Fire Damper
AHU	Air Handling Unit	FG	Floor Grille
AC or ACU	Air Conditioner or Air Conditioning Unit	FLA	Full Load Amperage
ACCU	Air-Cooled Condensing Unit	FLEX	Flexible
ACH	Air Changes per Hour	FLTS	Filters
ACV	Automatic Control Valve	FPB	Fan Powered Box
AMB	Ambient	FPM	Feet Per Minute
AMP	Ampere	FR	Floor Register
AP	Access Point or Panel	FSD	Fire Smoke Damper
AVG	Average	FTU	Fan Terminal Unit
BAD	Bypass Air Damper	GA	Gauge
BHP	Brake Horsepower	GPM	Gallons per Minute
BTU	British Thermal Unit	HC	Heating Coil
BTUH	British Thermal Units per Hour	HD	Head pressure measured in inches or feet of water
CAV	Constant or Continuous Air Volume	Heater O.L.	Thermal Overload protection for motors located at the motor starter
CC	Cooling Coil	HEPA	High Efficiency Particulate Air Filter
CD	Ceiling Diffuser	HOA	Hand/Off/Auto switch
CFM	Cubic Feet per Minute	HP	Horsepower
CG	Ceiling Grille	HPS	High Pressure Steam
CH	Chiller	HRC	Heat Recovery or Reclaim Coil
CHWR	Chilled Water Return	HVAC	Heating, Ventilating & Air Conditioning
CHWS	Chilled Water Supply	HWR	Hot Water Return or Heating Water Return
COP	Coefficient of Performance	HWS	Hot Water Supply or Heating Water Supply
CP	Circulating Pump	HX	Heat Exchanger
CR	Ceiling Register	Hydronic	Indicates the use of conveyance of liquid for Thermal transfer
CT	Cooling Tower	ID	Inside Diameter
CU	Condensing Unit	IV	Inlet Vanes
CUH	Cabinet Unit Heating	K	Correction Factor
CV	Control Valve	LAT	Leaving Air Temperature
CWR	Condenser Water Return	LD	Linear Slot Diffuser
CW or CWS	Condenser Water Supply	LDB	Leaving Dry Bulb
DAT	Discharge Air Temperature	LPS	Low Pressure Steam
DB	Dry Bulb	LRA	Locked Rotor Ampere
DD	Direct Drive	LV	Leaving
DIA	Diameter	LWB	Leaving Wet Bulb
Delta	Difference, net decrease or increase	LWG	Low Wall Grille
DNA	Data Not Available	LWR	Low Wall Register
DNL	Data Not Listed	LWT	Leaving Water Temperature
E	Existing	MAU / MUA	Make-up Air Unit or Make-up Air
EA	Exhaust Air	MAX	Maximum
EAT	Entering Air Temperature	MBH	Thousand BTU's per Hour
Economizer	Controls and componentry that allow an air handler to logically utilize outdoor air for cooling as opposed to the use of mechanical cooling.	MIN	Minimum
EDB	Entering Dry Bulb	MVD	Manual Volume Damper
EDC	Electric Duct Coil	(N)	New
EDH	Electric Duct Heater	N/A	Not applicable
EF	Exhaust Fan	N/L	Not Listed
EG	Exhaust Grille	NIC	Not in contract
EMS	Energy management System(s)	OBD	Opposed Blade Damper
EMCS	Energy Management Control System(s)	OD	Outside Diameter
ENT	Entering	OSA or OA	Outside Air
ER	Exhaust Register	OAT	Outside Air Temperature
ESP	External Static Pressure	P	Circulating Pump
EWB	Entering Wet Bulb	PF	Power Factor
EWT	Entering Water Temperature	PH	Phase(s)
FCU	Fan Coil Unit	PRV	Pressure Relief Valve
FCV	Flow Control Valve		

PSI	Pounds per Square Inch
R	Return Air or Round (for sizes)
RA	Return Air
RAT	Return Air Temperature
REQ	Required
RF	Return Air Fan
RG	Return Grille
RHC	ReHeat Coil
RLA	Running Load Amps
RM	Room
RPM	Revolutions per Minute
S	Supply
SA	Supply Air
SAT	Supply Air Temperature
SD	Supply Diffuser
SEF	Smoke Exhaust Fan
SF (air)	Supply Fan
SF (elect)	Service Factor
SHC	Steam Heating Coil
SP	SetPoint
SPF	Stairwell Pressurization Fan
SP "WC"	Static Pressure resistance measured in inches Of Water Column
SWG	Sidewall Grille
SWR	Sidewall Register
TAB	Testing, Adjusting, and Balancing
TCP	Temperature Control Valve
TP	Traverse Point or Test Point
TSP	Total Static Pressure
TV	Turning Vanes
TYP	Typical
UH	Unit Heater
V	Volt or Voltage
VAV	Variable Air Volume
VD	Volume Damper
VEL	Velocity
VFD	Variable Frequency Drive (electric motor speed controller)
VP	Velocity Pressure
W	Watts
W/	With
WB	Wet Bulb
WG	Water Gauge
#	Symbol for PSI or pounds per square inch



**FINAL AIR BALANCE CO., INC**  
**Testing & Balancing – Industrial & Environmental Systems**

**S U M M A R Y**

The following conditions were noted during the process of balancing:

- 1) AC-1 & AC-2: No filters were installed in units at the time of air balance.
- 2) No manual volume dampers installed in return ducts for individual inlets. Set return air for total for each AC unit.
- 3) CEF-1 & CEF-2: No speed controllers installed to adjust airflows. Direct drive motors, single speed.



### AIR MOVING EQUIPMENT TEST SHEET

JOB NAME: Gateway Suites #540 & #550

ADDRESS: 4381 Gateway Park Drive Sacramento, CA

SYSTEM	AC-1	AC-2
Equipment Location	Roof	Roof
Area Served	Salon	Salon
Equipment Manufacturer	Bryant	Bryant
Model	583PBW060090NL	583BPW036060NL
Serial number	3605G31188	3405G1414

	Specified	Actual	Specified	Actual
Total CFM - Fan	2000	2125 (1)	1200	1470 (1)
Total CFM - Outlet	2015	2125	1500	1470
R/A CFM	1615	1715	1100	1025
O/A CFM	400	410	400	445
Static Pressure Total	DNL	0.97	DNL	0.56
Inlet Pressure	DNL	-0.72	DNL	-0.33
Discharge Pressure	DNL	0.25	DNL	0.23
Fan RPM	3 speed	high speed	3 speed	high speed
Filters PD-Clean + Coil	DNL	0.34 (2)	DNL	0.03 (2)

	Specified	Actual	Specified	Actual
Motor Manufacturer	DNL	No access	DNL	No access
Motor HP / BHP	DNL / DNL	No access	DNL / DNL	No access
Phase	1	1	1	1
Voltage	208	215	208	214
Amperage	6.2	4.5	3.6	2.9
Motor RPM	3 speed	high speed	3 speed	high speed
Motor Service Factor	No access		No access	
Frame	No access		No access	

Motor Sheave & Bore	Direct Drive	Direct Drive
Fan Sheave & Bore	Direct Drive	Direct Drive
Number of Belts & Size	Direct Drive	Direct Drive
Sheave Position, % closed	Direct Drive	Direct Drive
C to C / In / Out	Direct Drive	Direct Drive

Remarks:

(1) Summation of Outlets; No valid location for duct traverse.

(2) Filters were not installed at the time of balance.



**AIR DISTRIBUTION TEST SHEET**

JOB NAME: Gateway Suites #540 & #550

SYSTEM: AC-1 Supply & Return

Room No.	Terminal No.	Terminal		Effective Area	Design		Preliminary		Final		Notes
		Type	Size		FPM	CFM	Test 1	Test 2	FPM	CFM	
DNL	1	CR	12 x 6	FH	FH	75	110		FH	65	(4)
DNL	2	CR	12 x 12	FH	FH	75	165		FH	80	
DNL	3	CR	12 x 12	FH	FH	175	260		FH	175	
DNL	4	CR	12 x 12	FH	FH	200	210		FH	220	
DNL	5	CR	12 x 12	FH	FH	200	225		FH	220	
DNL	6	CR	12 x 12	FH	FH	200	200		FH	210	
DNL	7	CR	12 x 12	FH	FH	100	160		FH	100	
DNL	8	CR	12 x 12	FH	FH	190	295		FH	190	(1)
DNL	9	CR	12 x 12	FH	FH	(3)	(3)		FH	(3)	(3)
DNL	10	CR	12 x 12	FH	FH	200	220		FH	215	
DNL	11	CR	12 x 12	FH	FH	200	195		FH	220	
DNL	12	CR	12 x 12	FH	FH	200	160		FH	220	
DNL	13	CR	12 x 12	FH	FH	200	160		FH	210	
						<b>2015</b>	<b>2360</b>			<b>2125</b>	
DNL	R-1	CG	24 x 24	FH	FH	DNL			FH	470	(2)
DNL	R-2	CG	24 x 24	FH	FH	DNL			FH	160	(2)
DNL	R-3	CG	24 x 24	FH	FH	DNL			FH	155	(2)
DNL	R-4	CG	24 x 24	FH	FH	DNL			FH	930	(2)
						<b>1615</b>				<b>1715</b>	

FH = Direct read with flow hood

Remarks:

- (1) Supply register was set at 190 CFM, design airflow was not shown on mechanical plan.
- (2) No dampers to balance return air.
- (3) Register has been deleted.
- (4) Supply design is greater than exhaust design. Supply was reduced to achieve a negative pressure in restroom.



**AIR DISTRIBUTION TEST SHEET**

JOB NAME: Gateway Suites #540 & #550

SYSTEM: AC-2 Supply & Return

Room No.	Terminal No.	Terminal		Effective Area	Design		Preliminary		Final		Notes
		Type	Size		FPM	CFM	Test 1	Test 2	FPM	CFM	
DNL	1	CR	12 x 12	FH	FH	100	75		FH	95	
DNL	2	CR	12 x 12	FH	FH	75	80		FH	80	
DNL	3	CR	12 x 12	FH	FH	50	85		FH	50	
DNL	4	CR	12 x 6	FH	FH	75	75		FH	60	(1)
DNL	5	CR	12 x 12	FH	FH	150	180		FH	160	
DNL	6	CR	12 x 12	FH	FH	150	150		FH	140	
DNL	7	CR	12 x 12	FH	FH	150	90		FH	135	
DNL	8	CR	12 x 12	FH	FH	150	130		FH	150	
DNL	9	CR	12 x 12	FH	FH	150	195		FH	155	
DNL	10	CR	12 x 12	FH	FH	150	150		FH	135	
DNL	11	CR	12 x 12	FH	FH	150	140		FH	150	
DNL	12	CR	12 x 12	FH	FH	150	155		FH	160	
						<b>1500</b>	<b>1505</b>			<b>1470</b>	
DNL	R-1	CG	24 x 24	FH	FH	DNL	100		FH	80	
DNL	R-2	CG	24 x 24	FH	FH	DNL	90		FH	75	
DNL	R-3	CG	24 x 24	FH	FH	DNL	445		FH	380	
DNL	R-4	CG	24 x 24	FH	FH	DNL	858		FH	490	
						<b>1100</b>				<b>1025</b>	

FH = Direct read with flow hood

Remarks:

(1) Supply design is greater than exhaust design. Supply was reduced to achieve a negative pressure in restroom.

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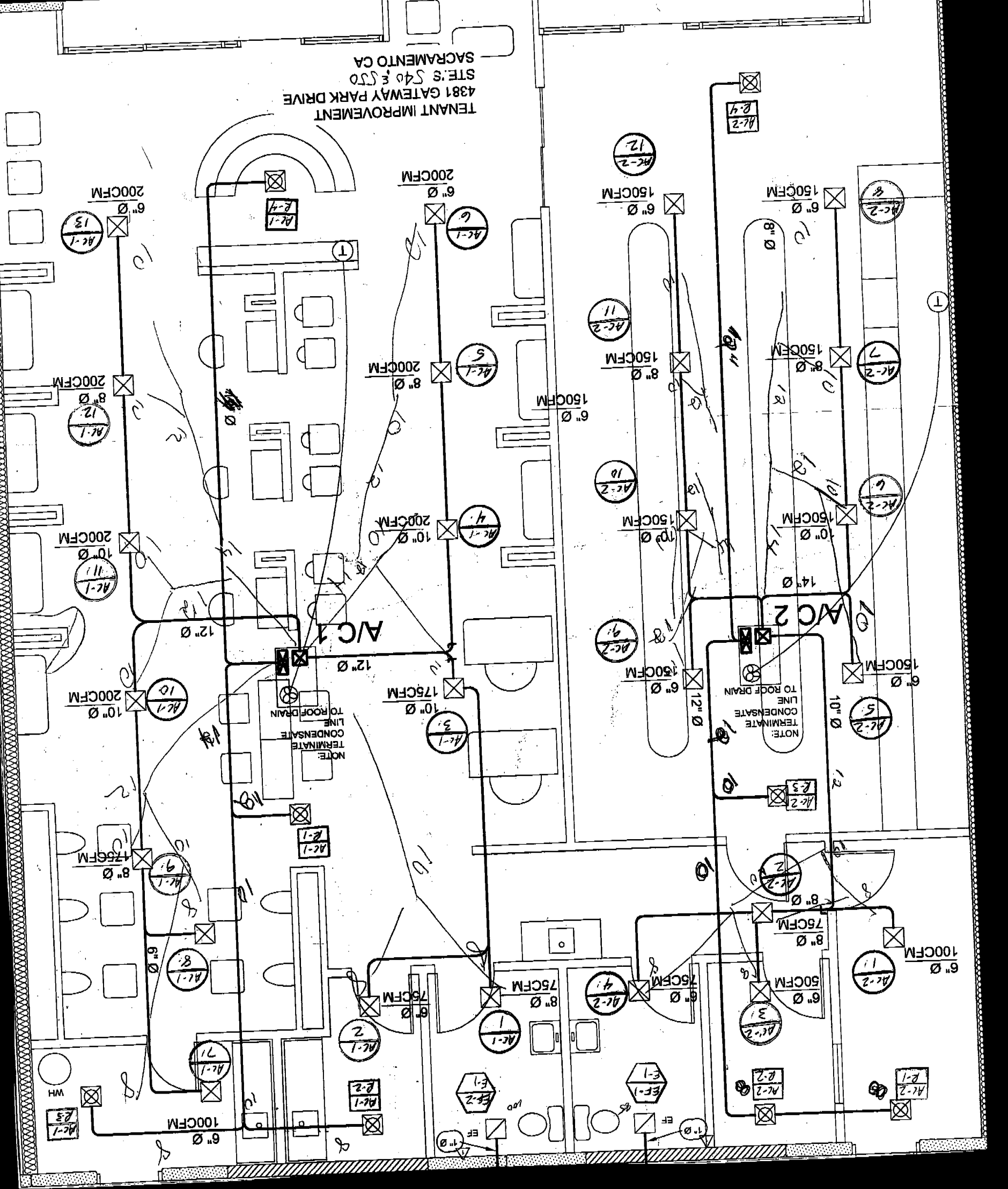
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TENANT IMPROVEMENT  
4381 GATEWAY PARK DRIVE  
STE'S 540 & 550  
SACRAMENTO CA





CITY OF SACRAMENTO

**30 DAY TEMPORARY  
Certificate of Occupancy**

For Information Contact (916) 808-5716

Building Address: 4381 GATEWAY PARK BL #540 & 550 Permit No.: 0505092  
Building Use: T.I. FOR SALON & SUPPLY Occupancy: B  
Building Owner: M & E GATEWAY LLC Construction Type: \_\_\_\_\_  
Owner Address: SACRAMENTO, CA Sprinkled?  Yes  No  
Portion of Building Occupied: SUITE 540 & 550 Area: 2800 Sq. Ft.

Specific purpose for temporary occupancy and/or conditions/limitations of temporary occupancy:

12/2/05 Carolyn Cooper RON BEEHLER  
Date By: (Print) Sign CHIEF BUILDING OFFICIAL

[TCO approvals: DSP,CHM,RLB,SL ]

**CBC 109.4 TEMPORARY CERTIFICATE**

*If the Chief Building Official finds that no substantial hazard will result from occupancy of any building or portion thereof before the same is completed, a temporary Certificate of Occupancy may be issued for the use of a portion or portions of a building or structure prior to the completion for the entire building or structure.*

**POST IN A CONSPICUOUS PLACE**