



CRITCHFIELD MECHANICAL, INC.

4085 Campbell Avenue

Menlo Park, CA 94025

(650) 321-7801

AIR BALANCE REPORT

PROJECT: CSM Bldg #9

SYSTEM: VAVS

LOCATION: Ground Floor

TEST APPARATUS: _____

AREA SERVED	OUTLET / BOX			DESIGN CFM		PRELIMINARY		FINAL CFM		REMARKS
	NO.	TYPE	SIZE	MAX	MIN	MAX	MIN	MAX	MIN	
Z-19	1			250				250		
	2			250				235		
	3			250				240		
	4			250				240		
	5			250				235		
				1250	300			1200	290	
Z-20	1			250				240		
	2			400				380		
				650	300			620	270	
Z-21	1			600				620		
	2			600				550		
				600				630		
				1800	300			1700	250	
Z-22	1			600				580		
	2			600				540		
				1200	300			1120	250	

REMARKS _____

DATE _____

READINGS BY _____

PAGE _____



CRITCHFIELD MECHANICAL, INC.

4085 Campbell Avenue

Menlo Park, CA 94025

(650) 321-7801

AIR BALANCE REPORT

PROJECT: CSM Bldg #9

SYSTEM: _____

LOCATION: Ground Floor

TEST APPARATUS: _____

AREA SERVED	OUTLET / BOX			DESIGN CFM		PRELIMINARY		FINAL CFM		REMARKS
	NO.	TYPE	SIZE	MAX	MIN	MAX	MIN	MAX	MIN	
Z-23	1		175	300				180		
	2			300				190		
	3			300				190		
	4			300				185		
	5			300				200		
	6		150	250				150		
	7			250				170		
	8			250				170		
	9			250				160		
	10			250				170		
	11			300				190		
	12			300				180		
	13			300				200		
	14			300				190		
	15			300				200		
	16			300				195		
	17		30	45				35		
				4595	600			2955	560	
Z-25				400				395		
				40				40		

440 175

435 180

REMARKS _____

DATE _____

READINGS BY _____

PAGE _____



CRITCHFIELD MECHANICAL, INC.
 4085 Campbell Avenue
 Menlo Park, CA 94025
 (650) 321-7801

AIR BALANCE REPORT

PROJECT: CSM Bldg.
 LOCATION: Ground Floor

SYSTEM: _____
 TEST APPARATUS: _____

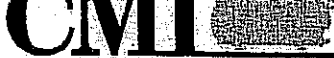
AREA SERVED	OUTLET / BOX			DESIGN CFM		PRELIMINARY		FINAL CFM		REMARKS
	NO.	TYPE	SIZE	MAX	MIN	MAX	MIN	MAX	MIN	
Z-26				470				470		040326C10100
				470	190			465	195	
Z-27				470				465		04AE06D10100
				470	190			465	185	
<u>Basement</u>										
Z-24	1			800				740		04960ED10100
	2			800				760		
	3			800				850		
				2400				2370	0	
Z-25	4	4	4	400						04D8C9C10100
				400						

REMARKS _____

DATE _____

READINGS BY _____

PAGE _____



CRITCHFIELD MECHANICAL, INC.

4085 Campbell Avenue

Menlo Park, CA 94025

(650) 321-7801

AIR BALANCE REPORT

PROJECT: CSM

SYSTEM: _____

LOCATION: Boardroom Fl.

TEST APPARATUS: _____

AREA SERVED	OUTLET / BOX			DESIGN CFM		PRELIMINARY		FINAL CFM		REMARKS
	NO.	TYPE	SIZE	MAX	MIN	MAX	MIN	MAX	MIN	
FL # 2	1	4w	1	300		570	575	500		Sheared Down
	2		1	300		450	575	500		
	3		4w	300		300	500	500		
	4			300		300	300	-		
	5		3x5	150		250	250	230		
	6	V		300		470	500	450		
				1650		2580	2710	2210		
FL # 3	1	4w		70		130		120		Fixed Pull
	2			70		155		115		
	3			70		155		115		
	4			70		145		170		
	5			70		135		125		
	6			200		620		335		
	7			200		245		340		
	8			100		40		150		
	9			200		220		300		
				500		240		450		
				1750		2125		2170		

REMARKS _____

DATE _____

READINGS BY _____

PAGE _____



CRITCHFIELD MECHANICAL, INC.
 4085 Campbell Avenue
 Menlo Park, CA 94025
 (650) 321-7801

AIR BALANCE REPORT

PROJECT: CSM
 LOCATION: Ground Fl.

SYSTEM: _____
 TEST APPARATUS: _____

AREA SERVED	OUTLET / BOX			DESIGN CFM		PRELIMINARY		FINAL CFM		REMARKS
	NO.	TYPE	SIZE	MAX	MIN	MAX	MIN	MAX	MIN	
FL #4	1			150		3100		1140		No Belt
	2			300		440		285		4/2500 Belt
	3			300		460		290		
	4			300		460		280		
	5			300		240		---		
	6			300		280		320		
	7			300		300		330		
	8			300		450		360		
	9			300				280		
	10			700		440		630		
			2950		3120		2855			
FL #5	1			300				320		
	2			300				300		
	3			300				290		
	4			300				275		
				1200				1185		

REMARKS _____

DATE _____ READINGS BY _____ PAGE _____



CRITCHFIELD MECHANICAL, INC.

4085 Campbell Avenue

Menlo Park, CA 94025

(650) 321-7801

AIR BALANCE REPORT

PROJECT: CSIM

SYSTEM: _____

LOCATION: Ground Fl.

TEST APPARATUS: _____

AREA SERVED	OUTLET / BOX			DESIGN CFM		PRELIMINARY		FINAL CFM		REMARKS
	NO.	TYPE	SIZE	MAX	MIN	MAX	MIN	MAX	MIN	
FL # 6	1			300		200		215		Sheave Mixed Dir
	2			325		240		195		
	3			325		250		205		
	4			325		180		200		
	5			800		130		150		
				1475		1000		965		
FL # 7	1			400				250		Sheave Mixed Dir
	2			400				255		
	3			400				270		
	4			400				245		
				1600				1020		

REMARKS _____

DATE _____

READINGS BY _____

PAGE _____



CRITCHFIELD MECHANICAL, INC.
 4085 Campbell Avenue
 Menlo Park, CA 94025
 (650) 321-7801

AIR BALANCE REPORT

PROJECT: CSM Bldg #9
 LOCATION: Ground Floor

SYSTEM: _____
 TEST APPARATUS: _____

AREA SERVED	OUTLET / BOX			DESIGN CFM		PRELIMINARY		FINAL CFM		REMARKS
	NO.	TYPE	SIZE	MAX	MIN	MAX	MIN	MAX	MIN	
AHU #7	1			75		65	30	60		166 Installed
	2			75		50	30	60		---
	3			75		20	25	60		---
	4		35	80		40	80	120		No Damper
*	5		138	200		190	250	155		
	6		270	400		120	240	750		
*	7		40	60		70	95	50		
	8		70	60		30	50	50		
	9		40	60		40	60	60		
	10		45	65		20	30	50		
	11		45	65		0	20	50		
	12		45	65		0	20	50		
*	13		55	100		140	130	80		---
*	14		20	100		145	150	95		---
	15		20	100		---	---	80		---
	16		65	100		---	---	75		---
	17		55	100		---	---	80		---
	18		45	70		40	35	130		Left High Because
	19		105	160		70	80	115		of equipment
	20		50	75		30	40	50		
*	21		135	150		400	510	520		

2235 1900

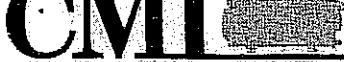
REMARKS

17 3/4" 5 - 2 170 (50) 6-3-776
 35 1/2 7.05
 9.22

DATE _____

READINGS BY _____

PAGE _____



CRITCHFIELD MECHANICAL, INC.
 4085 Campbell Avenue
 Menlo Park, CA 94025
 (650) 321-7801

AIR BALANCE REPORT

PROJECT: CSM
 LOCATION: Ground Fl.

SYSTEM: _____
 TEST APPARATUS: _____

AREA SERVED	OUTLET / BOX			DESIGN CFM		PRELIMINARY		FINAL CFM		REMARKS
	NO.	TYPE	SIZE	MAX	MIN	MAX	MIN	MAX	MIN	
AHJ #2	22		50	75		50	40	70		
	23		50	75		40	110	65		
	24		50	75		35	110	80		
	25		50	75		35	40	65		
	26		270	400		240	290	330		
*	27		146	150		150	140	150		
	28		50	100		20	20	80		
	29		150	200		140	190	220		
	30		150	200		140	185	220		
	31		270	400		=				
*	32			175		95	110	95		
							1145			
						2525	3045			
							241.6	low		

2235 + 1750 = 3985

REMARKS: 19" x 47" Duct = 6,000 CFM

DATE _____ READINGS BY _____ PAGE _____



CRITCHFIELD MECHANICAL, INC.
 4085 Campbell Avenue
 Menlo Park, CA 94025
 (650) 321-7801

AIR BALANCE REPORT

PROJECT: C.S.M.
 LOCATION: Ground Fl.

SYSTEM: _____
 TEST APPARATUS: _____

AREA SERVED	OUTLET / BOX			DESIGN CFM		PRELIMINARY		FINAL CFM		REMARKS
	NO.	TYPE	SIZE	MAX	MIN	MAX	MIN	MAX	MIN	
AH# 3	1			900		³¹ 920			950	
	2			900		540			880	
	3			900		1250			880	
	4			900		1400			960	
	5			900		1650			880	
	6			900		130			900	
	7			900		0			900	
	8			900		100			940	
	9			900		100			940	
				8100		7690			8230	
AH# 3	1			900		⁵ 160			860	
RETURN	2			900		150			860	
	3			900		140			880	
	4			900		130			840	
	5			900		350			815	
	6			900		500			910	
	7			900		860			960	
	8			900		1250			950	
	9			900		1300			960	
				8100		5020			7835	

REMARKS _____

DATE _____ READINGS BY _____ PAGE _____



CRITCHFIELD MECHANICAL, INC.

4085 Campbell Avenue
Menlo Park, CA 94025
(650) 321-7801

AIR BALANCE REPORT

PROJECT: CSM

SYSTEM: _____

LOCATION: BLDG 9 Library

TEST APPARATUS: _____

AREA SERVED	OUTLET / BOX			DESIGN CFM		PRELIMINARY		FINAL CFM		REMARKS
	NO.	TYPE	SIZE	MAX	MIN	MAX	MIN	MAX	MIN	
<u>Z-1</u>	1			425		350		350		@ .7" static
	2			425		350		350		
	3			425		350		350		
	4			425		350		350		
				1700	520	1400		1400	530	
<u>Z-AB</u>	1			425		145		145		@ .7" static
	2			425		145		145		
	3			425		150		150		
					400	440		440	380	
<u>Z-2</u>	1			450		310		310		@ .1
	2			450		310		310		@ 0.29 w4
	3			450		300		300		
	4			450		330		330		
				1800	540	1250		1250	570	
<u>Z-3</u>	1			375		285		285		1.5" Duct Static
	2			375		270		270		occupants cold
	3			375		250		280		Yarnus
	4			375		270		270		
	5			375		270		270		
	6			100		75		75		
				1475	710			1445	680	

REMARKS _____

DATE _____

READINGS BY _____

PAGE _____



CRITCHFIELD MECHANICAL, INC.
 4085 Campbell Avenue
 Menlo Park, CA 94025
 (650) 321-7801

AIR BALANCE REPORT

PROJECT: CSM
 LOCATION: BLDG 9 Library

SYSTEM: _____
 TEST APPARATUS: _____

AREA SERVED	OUTLET / BOX			DESIGN CFM		PRELIMINARY		FINAL CFM		REMARKS
	NO.	TYPE	SIZE	MAX	MIN	MAX	MIN	MAX	MIN	
Z-4	1			500	410			3460		10" Static
	2			500	360			435		
	3			500	520			450		
	4			500	500			440		
	5			500	400			470		
	6			500	560			425		
				3000	900	2750		2700	890	
Z-5	1			500		470		430		10" Static
	2			500		370		400		
	3			500		340		410		
	4			500		490		400		
	5			500		350		375		
	6			500		400		430		
	7			500		350		380		
	8			500				400		
	9			250		300		200		
				4250	1125	3070		3425	1140	
Z-6	1			625		350		350		@ 1" static
	2			625		350		350		
	3			625		350		350		
	4			625		390		390		
				2500	750	1440		1440	770	

REMARKS _____

DATE _____ READINGS BY _____ PAGE _____



CRITCHFIELD MECHANICAL, INC.

4085 Campbell Avenue

Menlo Park, CA 94025

(650) 321-7801

AIR BALANCE REPORT

PROJECT: CSM

SYSTEM: _____

LOCATION: BLDB 9 Library

TEST APPARATUS: _____

AREA SERVED	OUTLET / BOX			DESIGN CFM		PRELIMINARY		FINAL CFM		REMARKS
	NO.	TYPE	SIZE	MAX	MIN	MAX	MIN	MAX	MIN	
Z-7	1			560				300		.25 V.P.
	2			560				315		1.5" D.S.
	3			560				310		
	4			560				300		
				<u>2240</u>	<u>670</u>			1250	690	
Z-8	1			560				340		.30 V.P.
	2			560				360		1.5 D.S.
	3			560				360		
	4			560				340		
				<u>2240</u>	<u>670</u>			1400	700	
Z-9	1			560				330		.28 V.P.
	2			560				340		1.5" D.S.
	3			560				330		
	4			560				330		
				<u>2240</u>	<u>670</u>			1320	650	
Z-10	1			560				250		.18 V.P.
	2			560				275		1.5" D.S.
	3			560				250		
	4			560				275		
				<u>2240</u>	<u>670</u>			1050	720	

REMARKS _____

DATE _____

READINGS BY _____

PAGE _____



CRITCHFIELD MECHANICAL, INC.

4085 Campbell Avenue

Menlo Park, CA 94025

(650) 321-7801

AIR BALANCE REPORT

PROJECT: CSM

SYSTEM: _____

LOCATION: BLDB 9 Library

TEST APPARATUS: _____

AREA SERVED	OUTLET / BOX			DESIGN CFM		PRELIMINARY		FINAL CFM		REMARKS
	NO.	TYPE	SIZE	MAX	MIN	MAX	MIN	MAX	MIN	
Z-11	1			560				300		0.24 W.P.
	2			560				310		1.5" D.S.
	3			560				310		
	4			560				300		
					2240	670			1220	700
Z-12	1			560				310		0.26 W.P.
	2			560				315		1.5" D.S.
	3			560				315		
	4			560				310		
					2240	670			1250	660
Z-13	1			560				350		0.29 W.P.
	2			560				350		1.5" D.S.
	3			560				350		
	4			560				350		
					2240	670			1480	850

REMARKS _____

DATE _____

READINGS BY _____

PAGE _____



CRITCHFIELD MECHANICAL, INC.

4085 Campbell Avenue

Menlo Park, CA 94025

(650) 321-7801

AIR BALANCE REPORT

PROJECT: CSM

SYSTEM: _____

LOCATION: Bldg #9 Maintenance

TEST APPARATUS: _____

AREA SERVED	OUTLET / BOX			DESIGN CFM		PRELIMINARY		FINAL CFM		REMARKS
	NO.	TYPE	SIZE	MAX	MIN	MAX	MIN	MAX	MIN	
Z-14	1			575				600		047005X010100 - Z-
	2			575				550		1.5" Duct Static
				1150	345			1150	350	
Z-15	1			575				440		040179560200 Z
	2			575				430		1.5" DS
	3			575				450		
	4			575				455		
				2300	690			1775	700	
Z-16	1			575				550		040EA BFF0100 - Z-
	2			575				565		1.5" DS
				1150	345			1115		2.5" CAP
Z-17	1			575				500		04B611480200 - Z-
	2			575				520		1.5" DS
	3			575				530		
	4			575				500		
				2300	690			2050	725	

REMARKS

222 0959

NEAR ID →

DATE _____

READINGS BY _____

PAGE _____