			ME	CHANICAL S'	YMBOL LIS	T			
* This is a stand	dard list and not	all symbols and abbreviations mo	y be used.						
$\boxtimes \otimes$	SUPPLY AIR			FLEXIBLE CONNECTION	— —HWR— —	HEATING WATER RETURN		HP	HEAT PUMP
\square \emptyset	RETURN OR AIR	EXHAUST		PIPING VALVES	HWSR	HEATING WATER		HP HTG	HORSEPOWER HEATING
$\boxtimes \otimes$	OUTSIDE AIR	``````````````````````````````````````	──	VALVE, GENERAL	211112	SUPPLY AND RETURN		HTR	HEATER
• /•	POINT OF CO	ONNECTION/	————	VALVE	CHWS	CHILLED WATER SUPPLY		ID	HOT WATER COIL INSIDE DIAMETER
⊕ _{AC-1}	ROOM THERM	MOSTAT	——————————————————————————————————————	GATE VALVE		CHILLED WATER RETURN		IE	INVERT ELEVATION
AC-1	EQUIPMENT			PRESSURE REDUCING VALVE	CHWSR	CHILLED WATER		IN KW	INCHES KILOWATT
	IDENTIFICATIO	ON.	V			SUPPLY AND RETURN		LAT	LEAVING AIR TEMPERATURE
12×12 CD- 100	DIFFUSER OF IDENTIFICATION		X	MOTORIZED, 2-WAY VALVE	——-C-—	STEAM CONDENSATE RETURN		LBS.	POUNDS
	DAMPER	<u>RS</u>	<u> </u>	CHECK VALVE	RS	REFRIGERANT SUCTION		LH LWT	LATENT HEAT LEAVING WATER
}		VOLUME DAMPER	——Ф——	QUARTER TURN VALVE	RL	REFRIGERANT LIQUID		MA	TEMPERATURE MIXED AIR
- -	+ +	FIRE	──	GLOBE VALVE	<u>ABBRE</u>	VIATIONS		MAX	MAXIMUM
'FD	FD 1	DAMPER		BALANCING VALVE	A/C	AIR CONDITION(ED)		МВН	THOUSAND BTU'S PER HOUR
} 	FSD	FIRE/SMOKE DAMPER	——————————————————————————————————————	MOTORIZED, 3—WAY VALVE	AD AFF	ACCESS DOOR ABOVE FINISHED		MD MH	MOTORIZED DAMPER MOUNTING HEIGHT
}	SD	SMOKE DAMPER	PIPING	FITTINGS	AHU	FLOOR AIR HANDLING UNIT		MIN	MINIMUM
,	 	MOTORIZED		PIPE RISE	В	BOILER		MS MW	MOTOR STARTER MAKE-UP WATER
, □MD	MD 占	DAMPER		PIPE DROP	BDD BFP	BACKDRAFT DAMPER BACKFLOW PREVENTER		(N)	NEW
~	<u>DUCTWO</u>	ORK FITTINGS		TEE UP ON PIPE	BFF	BELOW FINISHED FLOOR		N/A NC	NOT APPLICABLE NOISE CRITERIA
		MITERED ELBOW WITH		TEE DOWN ON PIPE	BHP CD	BRAKE HORSEPOWER CEILING DIFFUSER		NIC	NOT IN CONTRACT
		TURNING VANES		CONTINUATION	CD	CONDENSATE DRAIN		NO. NOP	NUMBER NORMALLY OPEN
,)		RADIUSED ELBOW	 3	CAP	CF CFM	CUBIC FOOT CUBIC FEET PER		NTS	NOT TO SCALE
├		RECTANGULAR		UNION	CL.	MINUTE		OA OBD	OUTSIDE AIR OPPOSED BLADE
Ţ	, A	MAIN WITH		PIPE BELOW GRADE	CV	CHECK VALVE		OC	DAMPER ON CENTER
		ROUND BRANCH		PIPE REMOVED IN	CH	CHILLER COEFFICIENT OF		OD	OUTSIDE DIAMETER
		RECTANGULAR MAIN		DEMOLITION	CONT.	PERFORMANCE CONTINUATION		P PD	PUMP PRESSURE DROP
		WITH RECTANGULAR BRANCH		CONCENTRIC REDUCER	CT	COOLING TOWER		PH	PHASE
├		CONCENTRIC		ECCENTRIC REDUCER	cu cv	CONDENSING UNIT		PRV	PRESSURE REDUCING VALVE
	1	SQUARE TO ROUND		FLOW DIRECTION	CM	COEFFICIENT COLD WATER	•	PSI	POUNDS PER SQUARE INCH
├		ECCENTRIC	+	HOSE BIBB	D	DROP		QTY	QUANTITY
		TRANSITION, RECTANGULAR OR		PUMP	DB	DECIBEL		(R) (RL)	REMOVE RELOCATE
γ	,一切	ROUND	<u> </u>	PRESSURE GAUGE WITH COCK	DB DG	DRY BULB DOOR GRILLE		R	RISE
·—		NON-SYMMETRICAL WYE	<u> </u>	THERMOMETER	DIA	DIAMETER		RA REF	RETURN AIR REFRIGERANT
<u> </u>		SYMMETRICAL WYE	1	PIPE TO DRAIN	DP DX	DEW POINT DIRECT EXPANSION		RET	RETURN
∑		RECTANGULAR	1	VENT TO ATMOSPHERE	(E)	EXISTING		RH RL	RELATIVE HUMIDITY REFRIGERANT LIQUID
		DUCT RISER	s	AIR SEPARATOR	EAT	ENTERING AIR TEMPERATURE		RLD	RELIEF DAMPER
፟		ROUND DUCT	<u> </u>	TEMPERATURE SENSOR	EDH	ELECTRIC DUCT HEATER		RPM	REVOLUTIONS PER MINUTE
		RISER	BFP	BACKFLOW PREVENTER	EER	ENERGY EFFICIENCY RATING		RS SA	REFRIGERANT SUCTION SUPPLY AIR
		RECTANGULAR DUCT DROP		PRESSURE RELIEF VALVE	EF EEF	EXHAUST FAN EFFICIENT		SEER	SEASONAL ENERGY EFFICIENCY RATING
←		ROUND	<u></u>		EL	ELEVATION		SF	SQUARE FEET
	(<u>.</u>	DUCT		T&P RELIEF VALVE WITH PIPE TO DRAIN	ELECT EWT	ELECTRICAL ENTERING WATER		SOV	SENSIBLE HEAT SHUT OFF VALVE
~		RECTANGULAR OFFSET		EXPANSION TANK	EXH	TEMPERATURE EXHAUST		SP	STATIC PRESSURE
		LESS THAN 15°	EJ	EXPANSION JOINT	F	FAHRENHEIT		SST	SATURATED SUCTION TEMPERATURE
-		RECTANGULAR	P	PRESSURE SENSOR	FA FC	FACE AREA FAN COIL		TD	TEMPERATURE DIFFERENCE
		OFFSET MORE THAN 15°	F	FLOW SWITCH	FC	FLEXIBLE CONNECTOR		TEMP TH	TEMPERATURE TOTAL HEAT
←		ROUND	<u> </u>	SHOCK ABSORBER	FD FF	FIRE DAMPER FOULING FACTOR		TP	TOTAL PRESSURE
EX \	*	WYE	HE	HEAT EXCHANGER	FLA	FULL LOAD AMPS		TVE	TURNING VANE ELBOW UNDERCUT DOOR
£^	EX LAL	EXTRACTOR		WATER METER	FM FPI	FLOW METER FINS PER INCH		UH	UNIT HEATER
, <u> </u>		BELLMOUTH		EXPANSION LOOP	FPM	FEET PER MINUTE		V	VOLT VARIABLE AIR VOLUME
		ROUND DUCT		MANUAL AIR VENT	FPS FS	FEET PER SECOND		VAV VD	VOLUME DAMPER
<i>ا</i>	H	WITH ROUND BRANCH	4	AUTOMATIC AIR VENT	FS	FLOW SWITCH FEET		VEL	(HAND OPERATOR) VELOCITY
├──		CONCENTRIC TRANSITION, RECTANGULAR		TEST PORT (PETE'S PLUG OR EQUAL)	FVEL	FACE VELOCITY		W	WATT
		OR ROUND	PIPING	SYSTEMS	GAL GPH	GALLONS GALLONS PER HOUR		W/ WB	WITH WET BULB
₹====		- ACCOUSTICALLY LINED DUCT (SIZES SHOWN	<u> </u>	<u> </u>	GPM	GALLONS PER MINUTE		WC	WATER COLUMN
		ARE NET INSIDE)	HWS	HEATING WATER	HD	HEAD		W/0	WITHOUT

GENERAL SEISMIC NOTES

A. PIPING AND DUCTWORK DISTRIBUTION SYSTEMS SHALL BE BRACED TO SYSTEM THE FORCES PRESCRIBED IN ASCE 7-05 SECTION 13.3 AS DEFINED IN ASCE 7-05 SECTION 13.6.8, 13.6.7, AND 13.6.5.5, ITEM 6, RESPECTIVELY.

THE BRACING AND ATTACHMENTS TO THE STRUCTURE SHALL COMPLY WITH ONE OF THE OSHPD PRE-APPROVALS WITH AN OPA #, SUCH AS MASON INDUSTRIES (OPA 349), OR ISAT (OPA 485) AS MODIFIED TO SATISFY ANCHORAGE REQUIREMENTS OF ACI 318, APPENDIX D.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. WHERE THEY DO NOT COMPLY WITH THE REQUIREMENT ON DETAIL T/S5.2.

- B. ALL MECHANICAL EQUIPMENT SHALL BE ANCHORED OR BRACED TO MEET THE HORIZONTAL AND VERTICAL FORCES PRESCRIBED IN THE 2007 CBC, SECTION 1614A.1.13 AND ASCE 7-05 SECTIONS 13.3, 13.4 & 13.6.

 THE ATTACHMENT OF THE FOLLOWING ITEMS SHALL BE DESIGNED TO RESIST THE FORCES PRESCRIBED ABOVE, BUT NEED NOT BE DETAILED ON THE PLANS:
- EQUIPMENT WEIGHTING LESS THAN 400 POUNDS SUPPORT DIRECTLY ON THE FLOOR OR ROOF.
 FURNITURE REQUIRED TO BE ATTACH IN ACCORDANCE WITH PART 2, TITLE 24,
- C.C.R.

 3. TEMPORARY OR REMOVABLE EQUIPMENT.

 4. EQUIPMENT WEIGHTING LESS THAN 20 POUNDS SUPPORT BY VIBRATION
- ISOLATORS.
 5. EQUIPMENT WEIGHTING LESS THAN 20 POUNDS SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE MECHANICAL/ELECTRICAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.

THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS. WHERE THEY DO NOT COMPLY WITH THE REQUIREMENT ON DETAIL T/S5.2.

- C. REFER TO STRUCTURAL DRAWINGS FOR CONCRETE ANCHOR TYPE AND INSTALLATION REQUIREMENTS.
- D. ALL PIPING AND CONDUIT CROSSING BUILDING SEISMIC SEPARATIONS SHALL BE PROVIDED WITH APPROVED FLEXIBLE CONNECTORS.
- E. SHOP DRAWINGS SHOWING ALL BRACING LOCATIONS AND DETAILS OF CONNECTIONS ARE REQUIRED FOR ALL SYSTEMS, INCLUDING PRE—APPROVED SYSTEMS.
- F. A COPY OF THE BRACING SYSTEMS INSTALLATION MANUAL SHALL BE ON THE JOB SITE PRIOR TO STARTING THE INSTALLATION OF THE HANGERS AND/OR BRACES.
- G. LATERAL SUPPORT FOR PIPES AND DUCTS SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST ADDITION OF THE "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING SYSTEMS" BY SMACNA.

SUBMIT APPLICABLE DETAILS FOR REVIEW AND APPROVAL.

GENERAL MECHANICAL NOTES

- A. COORDINATE EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS AND GRILLES WITH LIGHTING LAYOUT. CEILING TILE PATTERN AND WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- B. PROVIDE MANUAL VOLUME DAMPERS TO FACILITATE PROPER BALANCE OF THE AIR DISTRIBUTION SYSTEM. VOLUME DAMPER AT DIFFUSERS AND REGISTERS SHALL NOT BE USED FOR AIR BALANCING.
- C. SEAL ALL OPENINGS AROUND PIPING AND DUCTWORK PENETRATING FIRE RESISTIVE RATED WALLS
- AND FLOORS TO MAINTAIN RATING INTEGRITY.

 D. COORDINATE EXACT LOCATION OF CEILING, WALL OR FLOOR ACCESS PANELS FOR FIRE, SMOKE OR
- E. COORDINATE LOCATION OF CEILING ACCESS PANEL FOR EACH FURNACE LOCATED IN THE

COMBINATION FIRE SMOKE DAMPERS AND VOLUME DAMPERS WITH ARCHITECT.

NON-DEMOUNTABLE CEILING AREA.

F. FLEXIBLE SUPPLY DUCT LENGTH SHALL BE MAXIMUM 5'-0".

MINIMUM RADIUS SHALL BE 1.5 TIMES DIAMETER OF DUCT.

- G. PROVIDE MANUAL VOLUME DAMPER REMOTE REGULATOR AT INACCESSIBLE CEILING. SIMILAR TO YOUNG REGULATOR.
- H. COORDINATE EXACT LOCATION OF CORE DRILLING, CUTTING OF FLOOR SLAB, OR WALLS OF THE BUILDING WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- PROVIDE ACCESS DOOR FOR ALL EQUIPMENT, VALVES AND CLEANOUTS WHICH REQUIRE ACCESS FOR ADJUSTMENT OR SERVICING, AND WHICH ARE LOCATED IN OTHERWISE INACCESSIBLE LOCATIONS. OPENINGS SHALL BE LARGE ENOUGH TO PERMIT MAINTENANCE AND ADJUSTMENT OF THE DEVICE.
- J. DUCTS STORED ON THE CONSTRUCTION SITE SHALL BE PROTECTED AND ISOLATED FROM DUST CONTAMINATION.
- K. PITCH PIPELINES AS REQUIRED FOR PROPER DRAINAGE AND ELIMINATION OF AIR.
- L. PROVIDE CONDENSATE DRAIN PIPING WITH DRAINAGE FITTINGS FOR ALL COOLING COILS AND ROUTE TO A NEAREST APPROVED RECEPTOR. SEE PLUMBING DRAWINGS.
- M. MANUFACTURERS NAMES FOR PRODUCTS LISTED ON DRAWINGS ARE BASIS OF DESIGN. SEE SPECIFICATIONS FOR EQUIVALENT MANUFACTURERS.
- N. THE PROJECT DESIGN SHOWN ON THE DRAWINGS AND SPECIFIC ITEMS REFERENCED IN THE SPECIFICATIONS IS IN COMPLIANCE WITH THE CODES AND ORDINANCES LISTED IN DIVISION 23 SPECIFICATIONS.
- O. PROVIDE SEISMIC ANCHORAGE AND BRACING FOR MECHANICAL EQUIPMENT, PIPING AND DUCTWORK. SEE "GENERAL SEISMIC NOTES" FOR DETAIL REQUIREMENTS.
- P. COORDINATE WITH DIVISION 26 CONTRACTOR FOR LOCATION OF POWER AND LOCAL DISCONNECTS FOR COMBINATION FIRE/SMOKE DAMPERS.
- Q. INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE THE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- R. PREPARE SHOP DRAWINGS FOR INSTALLATION OF ALL NEW WORK BEFORE INSTALLATION TO VERIFY COORDINATION BETWEEN TRADES.
- S. KEEP CUTTING TO THE MINIMUM REQUIRED FOR PROPER EXECUTION OF WORK. BE RESPONSIBLE FOR ALL CUTTING AND PATCHING NECESSARY FOR THE COMPLETION OF WORK. NO CUTTING SHALL BE PERFORMED WITHOUT THE APPROVAL OF THE ARCHITECT.
- T. PROVIDE OFFSETS, ELBOWS AND TRANSITIONS IN DUCTWORK AND PIPING AS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
- U. VERIFY ALL CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. PROVIDE TRANSITIONS FOR FINAL CONNECTION TO EQUIPMENT. FIELD VERIFY ALL DIMENSIONS PRIOR TO FABRICATION OF WORK
- V. VERIFY DIFFUSERS, GRILLS, AND REGISTER MOUNTING FRAME TYPES WITH CEILING TYPE AND
- W. PROVIDE DUCT ACCESS DOORS FOR FIRE/SMOKE DAMPERS AND SMOKE DETECTORS.
- X. FLEXIBLE DUCT SHALL USED FOR DIFFUSER AND REGISTER PLACEMENT ONLY, IN LENGTHS OF 5FT MAXIMUM.
- Y. PAINT FLAT BLACK THE INSIDE OF ALL DUCT WORK VISIBLE THROUGH DIFFUSERS, GRILLES, AND REGISTERS.
- Z. FIRE—SAFE PIPE AND DUCTWORK PENETRATIONS OF ALL FIRE RATED AND SMOKE RESISTIVE CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND DETAILS OF ALL PENETRATION AND FIRE—SAFING REQUIREMENTS.
- AA. INSTALL ALL EQUIPMENT LEVEL AND PLUMB. PROVIDE BLOCKING AND HARDWARE AS REQUIRED.
- AB. PROVIDE HANGER, SUPPORT AND SWAY BRACES FOR ALL DUCTWORK, PIPING AND EQUIPMENT AS REQUIRED BY THE LATEST EDITION OF THE SMACNA GUIDELINES.
- AC. DUCT SYSTEMS SHALL BE BALANCED TO CFM ON DRAWINGS. FANS SHALL BE FIELD TESTED TO PROVED COMPLIANCE WITH SCHEDULED FAN PERFORMANCE, AIR FLOW AT DESIGN STATIC PRESSURE.
- AD. ALL WORK AND MATERIALS SHALL BE IN COMPLIANCE WITH THE SPECIFICATIONS IN THE EVENT OF A CONFLICT BETWEEN THE CONTRACT DRAWINGS AND THE SPECIFICATIONS, THE MOST STRINGENT
- AE. INSTALL ALL PIPING AND DUCTWORK TO BEST SUIT FIELD CONDITIONS AND COORDINATE WITH OTHER TRADES. THE DRAWINGS ARE DIAGRAMMATIC, AND SHALL NOT BE SCALED TO DETERMINE
- THE EXACT LOCATIONS OF THE PIPING OR DUCTWORK.

 AF. PROVIDE UNIONS OR FLANGES AT EACH SIDE OF CONTROL VALVES. EVERY PIPING ASSEMBLY SHALL BE MADE SUCH THAT EVERY VALVE AND EVERY PIECE OF EQUIPMENT IS EASILY

REMOVABLE. WELDED OR SOLDERED-JOINT VALVES ARE EXEMPT FROM THIS REQUIREMENT.

- AG. PROVIDE 1-IN AIR GAP AT ALL DRAIN CONNECTIONS.
- AH. FLUSH HYDRONIC PIPING PER DISTRICT STANDARD PROCEDURE, INCLUDING: DISPERSE AN ALKALINE AGENT WITH PHOSPHATE INHIBITOR AND LET IT CIRCULATE FOR MINIMUM 48 HOURS, THEN THE LINE IS FLUSHED OUT WITH FRESH WATER AGAIN, THEN A CORROSION INHIBITOR IS ADDED. PERFORM INDUSTRIAL WATER TESTING. IF THE BACKBONE HAS BEEN STAGNANT FOR AN EXTENDED PERIOD, FURTHER CIRCULATION WITH THE ALKALINE AGENT MAY BE NEEDED, AS PER THE RESULTS OF THE TEST.

SHEET INDEX

- MO.1 MECHANICAL LEGENDS, NOTES, ABBREVIATIONS & DRAWING INDEX
 MO.2 TITLE 24 MANDATORY MEASURES AND COMPLIANCE FORMS
- MO.3 TITLE 24 MANDATORY MEASURES AND COMPLIANCE FORMS

THIRD FLOOR DEMOLITION PLAN - MECHANICAL

- MD1.1 FIRST FLOOR DEMOLITION PLAN MECHANICAL MD1.2 SECOND FLOOR DEMOLITION PLAN MECHANICAL
- M2.1d FIRST FLOOR DUCTWORK PLAN MECHANICAL M2.2d SECOND FLOOR DUCTWORK PLAN MECHANICAL
- M2.3d THIRD FLOOR DUCTWORK PLAN MECHANICAL M2.1h FIRST FLOOR HYDRONIC PLAN MECHANICAL
- M2.2h SECOND FLOOR HYDRONIC PLAN MECHANICAL M2.3h THIRD FLOOR HYDRONIC PLAN MECHANICAL
- .4 ROOF PLAN MECHANICAL
- M3.1 MECHANICAL AIRFLOW DIAGRAMS
 M3.2 MECHANICAL PIPING DIAGRAMS
- M3.3 ENLARGED MECHANICAL DUCTWORK PLAN
 M3.4 ENLARGED MECHANICAL HYDRONIC PLAN
- MECHANICAL EQUIPMENT SCHEDULES
 MECHANICAL EQUIPMENT SCHEDULES
- 14.2 MECHANICAL EQUIPMENT SCHEDULES
- 15.1 MECHANICAL CONTROL DIAGRAMS15.2 MECHANICAL CONTROL DIAGRAMS
- MECHANICAL DETAILS MECHANICAL DETAILS

BCA

architecture p lanning i nt eriors

Bunton Clifford Associates, Inc.
210 Hammond Ave.
Fremont, California 94539
[T] 510.445.1000
[F] 510.445.1005
www.BCAincOnline.com

	PROJECT	2007-0731							
	CONTACT	Omar Hawit							
	717 Marke	Street.			E				
	Suite 500	Collect							
		sco, CA 94103							
	TEL 415	.489.7240							
	FAX 415	.489.7289							
	www.interf	aceengineering.co	m						
	ARC	HITEÇT		Е	NG	INE	El	₹	
Г				 			_		

ARCHITECT ENGINEER PROFESS/ONA No. C018659 Ren.: 09/30/11 ANC. 1030802 Fig. 12-31-2010 ANC. 1050802 Fig. 12-31-2010 ANC. 1060802	www.interraceerigineering.co	
No. C018659 Ren.: 09/30/11 * P. No. 030802 Ed. 12-31-2010	ARCHITECT	ENGINEER
	No. C018659 Ren.: 09/30/11 ★	301 L. 1910 2010 3010 3010 3010 3010 3010 3010 30

This sheet is part of a set and is not to be used alone.
 This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicates drawings have been released for construction.
 These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
 Copyright Bunton Clifford Associates, 2007

09/18/09
00/40/00
DATE

DATE
08/29/08
01/22/09
09/18/09

	FILE	NO.	41-	-C1	
DIV.	IDENTIF OF TH	ICATIO E STA	n sta Te ar	AMP CHITE	СТ
	01	- 11	007	4	
AC					,

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community
College District

BID ADDENDA

CAÑADA COLLEGE 4200 Farm Hill Boulevard Redwood City, CA 94061

MECHANICAL LEGENDS, NOTES, ABBREVIATIONS AND DRAWING INDEX

Date
08/29/08
Scale
Drawing Number

AS NOTED

Project Number

__ M0.1

ROJECT NAME					DATE	
Canada ROJECT ADDRESS					8/26/2	800
INCIPAL DESIGNER - MI	ECHANICAL	Redwood City	TELEPHONE		Building Pen	mit#
CUMENTATION AUTHOR	e Engineering Inc.		415-489-7 TELEPHONE		Checked by/	Date
	ACE ENGINEERING	3	(916) 288-0	6200	Enforcement	
ENERAL INFORMAT ATE OF PLANS	BUILDING COND	DITIONED FLOOR AREA	20.005		TE ZONE	
IILDING TYPE	2008 NONRESIDENTIAL	HIGH RISE RE	32,695sq.ft.		MOTEL GUEST	3 ROOM
ASE OF CONSTRUCTION	NEW CONSTRUCTION	ON ADDITION	ALTERATION	UNCONE	DITIONED (File A	ffidavit)
THOD OF MECHANICAL	PRESCRIPTIVE	PERFORMANC	E			near de la constanta de la cons
OOF OF ENVELOPE CO		/IOUS ENVELOPE PERM	IT ENVELOPE C	OMPLIANO	CE ATTACHED	
	IPLIANCE liance lists the building for ifornia Code of Regulation					
e documentation prep	parer hereby certifies tha	at the documentation	s accurate and com	plete.		
Omar H	awit	Ceff)		DATE 1/21/0	
	al Designer hereby certifictions in the compliant in the					
culations submitted w	vith this permit application	n. The proposed buil	ding has been desig	gned to m	neet the mech	anical
•	in the applicable parts of ns meet the requirements of F			o, izu ini	rougii 120, 14	ح, ۱44,
The installation certificat	tes meet the requirements of I	Part 1 (10-103a 3).				
-	nance information meets the resectionsof the Business and	,	•	sidential Ma	anual.)	
I hereby affirm that I am person responsible for it	eligible under the provisions or spreparation; and that I am Ii	of Division 3 of the Busine	ess and Professions Co	de to sign tl	his document as	
am a licensed architect. I affirm that I am eligible	under the exemption to Divisi	sion 3 of the Business and	Professions Code by S	ection 5537	7.2 or 6737.3 to	
I affirm that I am eligible	rson responsible for its preparunder the exemption to Divisi	sion 3 of the Business and	Professions Code to sig	gn this docu	ument because i	t pertains
structure or type of work	described pursuant to Busine	ess and Professions Code	sections 5537, 5538, a	and 6737.1.		-
NCIPAL MECHANICAL I	DESIGNER - NAME Laineering Inc.	SIGNATURE) D ₁	ATE 1/21/09	LIC.# 3398	
			-			
MECH-2-C:Air/Water/ plans. MECH-3-C: Mechani MECH-4-C: HVAC M	te of Compliance. Part 1 Service/Water Pools Red ical Ventilation and Rehe lisc. Prescriptive Require	quirements. Part 1 of eat is required for all s ements is required for	3, 2 of 3, 3 of 3 are submittals with med all prescriptive sub	e required hanical vo omittals, b	entilation, but	may be
MECH-2-C:Air/Water/ plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani	Service/Water Pools Redical Ventilation and Rehelisc. Prescriptive Required Equipment Details a	quirements. Part 1 of eat is required for all s ements is required for are required for all per	3, 2 of 3, 3 of 3 are submittals with med all prescriptive sub	e required hanical vo omittals, b	entilation, but out may be on	may be
MECH-2-C:Air/Water/ plans. MECH-3-C: Mechani MECH-4-C: HVAC M	Service/Water Pools Redical Ventilation and Rehelisc. Prescriptive Required Equipment Details a	quirements. Part 1 of eat is required for all s ements is required for are required for all per	3, 2 of 3, 3 of 3 are submittals with med all prescriptive subformance submittals	e required hanical vo omittals, b	entilation, but out may be on	may be
MECH-2-C:Air/Water/ plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySi	Service/Water Pools Redical Ventilation and Rehelical Ventilation and Rehelisc. Prescriptive Required ical Equipment Details and the User Number: 482	quirements. Part 1 of eat is required for all s ements is required for are required for all per 22 Job N	3, 2 of 3, 3 of 3 are submittals with med all prescriptive subformance submittals	e required hanical v omittals, b	entilation, but out may be on Page	may be plans.
MECH-2-C: Air/Water/viplans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySt	Service/Water Pools Redical Ventilation and Rehelisc. Prescriptive Required Equipment Details a	quirements. Part 1 of eat is required for all s ements is required for are required for all per 22 Job N	3, 2 of 3, 3 of 3 are submittals with med all prescriptive subformance submittals	required thanical very mittals, but s.	entilation, but out may be on Page	may be plans.
MECH-2-C: Air/Water/ plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySt ERTIFICATE DJECT NAME Canada	Service/Water Pools Redical Ventilation and Rehelisc. Prescriptive Required ical Equipment Details and the User Number: 482	quirements. Part 1 of eat is required for all s ements is required for are required for all per 22 Job N	3, 2 of 3, 3 of 3 are submittals with med all prescriptive subformance submittals	required thanical very mittals, but s.	entilation, but out may be on Page	may be plans.
MECH-2-C: Air/Water/Plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySt ERTIFICATE OJECT NAME Canada City the boxes by all acceptani ipment description and the soluted by the owner). Since the ropriately. Lilding Department	Service/Water Pools Redical Ventilation and Rehelisc. Prescriptive Required ical Equipment Details and oft User Number: 482 OF COMPLIAN College designer and attached to the plance tests that apply and list all number of systems to be tested etest. Also indicate the person his form will be part of the plane	eat is required for all sements is required for all per required for all per 22 Job N NCE lans. Listed below are all the equipment that requires a led in parentheses. The NJ is responsible for performing its, completion of this section.	a, 2 of 3, 3 of 3 are submittals with medical prescriptive subformance submittals lumber 2007-0731 (Pa	e required chanical version in the angle contractor le party to but	Page 2) MECI DATE 8/26/20 stems. The design a certain type requested Appendix of the North design profession and get for the scope and get for the sco	plans. 1 of 10 1-1-(008 The requires a test on resider on all or an ell of work
MECH-2-C: Air/Water/ plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySe ERTIFICATE OJECT NAME Canada Cock the boxes by all acceptal ipment description and the M Manual that describes the ected by the owner). Since the propriately. III Department of the propriately of the propriately.	Service/Water Pools Redical Ventilation and Rehelisc. Prescriptive Required ical Equipment Details and off User Number: 482 OF COMPLIA College designer and attached to the plane tests that apply and list all number of systems to be tested test. Also indicate the person his form will be part of the plane.	eat is required for all sements is required for all sements is required for all per required for all per 22 Job N NCE lans. Listed below are all the equipment that requires and in parentheses. The NJ in responsible for performing ans, completion of this section anted for a newly construction.	all prescriptive subformance submittals formance submittals lumber 2007-0731 (Pa (Pa de acceptance tests for men acceptance test. If all enumber designates the Set the tests (i.e. the installing on will allow the responsible ad building or space, or a	e required chanical versions, best. rt 2 of 2 dechanical symmetric of a contractor in the 2 decian in the 2 d	Page 2) MECI DATE 8/26/20 stems. The design a certain type requested Appendix of the Narr, design profession added for the scope conditioning systems.	plans. 1 of 10 1-1-(008 The requires a test on resider on all or an e of work on serving
MECH-2-C: Air/Water/Plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySt ERTIFICATE Canada Signer: S form is to be used by the cock the boxes by all acceptant ipment description and the M Manual that describes the ected by the owner). Since the ropriately. Lilding Department of the compliance of the compliance.	Service/Water Pools Redical Ventilation and Rehelisc. Prescriptive Required ical Equipment Details and oft User Number: 482 OF COMPLIAN College designer and attached to the plane tests that apply and list all number of systems to be tested test. Also indicate the person his form will be part of the plane ents: ore an occupancy permit is grane.	eat is required for all sements is required for all per required for all per 22 Job N NCE lans. Listed below are all the equipment that requires and in parentheses. The NJ is responsible for performing its, completion of this section anted for a newly constructives serving the building or serving the building or serving the building or serving the se	all prescriptive subformance submittals formance submittals formance submittals fumber:2007-0731 (Pa	e required chanical version in the party to but the party the	Page 2) MECI DATE 8/26/20 stems. The design a certain type required Appendix of the North design profession added for the scope conditioning systems. Acceptance Required Appendix of the Scope conditioning systems.	plans. 1 of 10 1 of 10 008 her is requires a test onresider on al or an e of work m serving tirements
MECH-2-C:Air/Water/ plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySt ERTIFICATE OJECT NAME Canada esigner: s form is to be used by the context of the lowest by all acceptant in present description and the lowest by the owner). Since the lowest by the owner. STEM ACCEPTANCE. Befording or space is operated for the Compliance. Indication a Certificate of Acceptance.	Service/Water Pools Redical Ventilation and Rehelisc. Prescriptive Required ical Equipment Details and oft User Number: 482 OF COMPLIA College designer and attached to the plane tests that apply and list all number of systems to be tested test. Also indicate the person his form will be part of the plane ents: or an occupancy permit is grader normal use, all control devices optance, MECH-1-A Form shall maintenance information meet	eat is required for all sements is required for all sements is required for all per required for all per 22 Job N NCE lans. Listed below are all the equipment that requires a red in parentheses. The NJ is responsible for performing as, completion of this section anted for a newly constructed ses serving the building or set to be submitted to the building or set to the submitted to the submit	all prescriptive subformance submittals formance submittals lumber 2007-0731 (Pa (Pa The acceptance tests for men acceptance test. If all end acceptance tests for men acceptance test. If all end acceptance tests (i.e. the installing on will allow the responsible end building or space, or a space shall be certified as any department that certifier	e required chanical version in the party to but the party to but the plants, specific plant	Page 2) MECI DATE 8/26/20 stems. The design a certain type required Appendix of the North design profession added for the scope conditioning systems. Acceptance Required Appendix of the Scope conditioning systems.	plans. 1 of 10 1 of 10 008 her is requires a test onresider on al or an e of work m serving tirements
MECH-2-C: Air/Water/ plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySi ERTIFICATE OJECT NAME Canada Canada	Service/Water Pools Redical Ventilation and Rehelisc. Prescriptive Required ical Equipment Details and oft User Number: 482 OF COMPLIAN College designer and attached to the planetests that apply and list all number of systems to be tested test. Also indicate the person his form will be part of the planetests. Per an occupancy permit is grader normal use, all control devices a programment of the planetest of	eat is required for all sements is required for all sements is required for all per required for all per 22 Job N NCE lans. Listed below are all the equipment that requires a red in parentheses. The NJ is responsible for performing as, completion of this section anted for a newly constructed ses serving the building or set to be submitted to the building or set to the submitted to the submit	all prescriptive subformance submittals formance submittals lumber 2007-0731 (Pa (Pa The acceptance tests for men acceptance test. If all end acceptance tests for men acceptance test. If all end acceptance tests (i.e. the installing on will allow the responsible end building or space, or a space shall be certified as any department that certifier	e required chanical version in the party to but the party to but the plants, specific plant	Page 2) MECI DATE 8/26/20 stems. The design a certain type required Appendix of the North design profession added for the scope conditioning systems. Acceptance Required Appendix of the Scope conditioning systems.	plans. 1 of 10 1 of 10 008 her is requires a test onresider on al or an e of work m serving tirements
MECH-2-C: Air/Water/ plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySe ERTIFICATE DJECT NAME Canada Signer: Soform is to be used by the cock the boxes by all acceptal ipment description and the M Manual that describes the exted by the owner). Since the properties of the compliance of the Compliance. Idding Department of the Compliance of Acceptance of Acceptanc	ical Ventilation and Rehelisc. Prescriptive Required ical Equipment Details and off User Number: 482 OF COMPLIA College designer and attached to the planetests that apply and list all number of systems to be testered test. Also indicate the person his form will be part of the planetest. Some an occupancy permit is grader normal use, all control devices the person or normal use, all control devices the person his form will be part of the planetest or normal use, all control devices the person his form will be part of the planetest or normal use, all control devices the person his form South Control devices the person occupancy permit is grader normal use, all control devices the person occupancy permit is grader normal use, all control devices the person occupancy permit is grader normal use, all control devices the person occupancy permit is grader person occupancy permit is	eat is required for all sements is required for all sements is required for all per required for all per 22 Job N NCE lans. Listed below are all the equipment that requires a red in parentheses. The NJ is responsible for performing as, completion of this section anted for a newly constructed ses serving the building or set to be submitted to the building or set to the submitted to the submit	all prescriptive subformance submittals formance submittals lumber 2007-0731 (Pa (Pa The acceptance tests for men acceptance test. If all end acceptance tests for men acceptance test. If all end acceptance tests (i.e. the installing on will allow the responsible end building or space, or a space shall be certified as any department that certifier	e required chanical version in the party to but the party to but the plants, specific plant	Page 2) MECI DATE 8/26/20 stems. The design a certain type required Appendix of the North design profession added for the scope conditioning systems. Acceptance Required Appendix of the Scope conditioning systems.	plans. 1 of 10 1 of 10 008 her is requires a test onresider on al or an e of work m serving tirements
MECH-2-C: Air/Water/ plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySe ERTIFICATE DJECT NAME Canada Signer: Soform is to be used by the cock the boxes by all acceptanipment description and the M Manual that describes the extended by the owner). Since the extended by the owner. Since th	ical Ventilation and Rehelisc. Prescriptive Required ical Equipment Details and off User Number: 482 OF COMPLIA College designer and attached to the plane tests that apply and list all number of systems to be tested test. Also indicate the person his form will be part of the plane ents: Ore an occupancy permit is grader normal use, all control devices the person of the plane ents. Ore the complete information meet of the plane ents of the plane ents of the plane ents. Ore an occupancy permit is grader normal use, all control devices the person of the plane ents. Ore an occupancy permit is grader normal use, all control devices the person of the plane ents of the	eat is required for all sements is required for all sements is required for all per required for all per 22 Job N NCE lans. Listed below are all the equipment that requires a red in parentheses. The NJ is responsible for performing as, completion of this section anted for a newly constructed ses serving the building or set to be submitted to the building or set to the submitted to the submit	all prescriptive subformance submittals formance submittals lumber 2007-0731 (Pa (Pa The acceptance tests for men acceptance test. If all end acceptance tests for men acceptance test. If all end acceptance tests (i.e. the installing on will allow the responsible end building or space, or a space shall be certified as any department that certifier	e required chanical version in the party to but the party to but the plants, specific plant	Page 2) MECI DATE 8/26/20 stems. The design a certain type required Appendix of the North design profession added for the scope conditioning systems. Acceptance Required Appendix of the Scope conditioning systems.	plans. 1 of 10 1 of 10 008 her is requires a test onresider on al or an e of work m serving tirements
MECH-2-C: Air/Water/ plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySe ERTIFICATE DJECT NAME Canada Signer: Sofrm is to be used by the cock the boxes by all acceptal ipment description and the M Manual that describes the exted by the owner). Since the propriately. Jilding Department of the compliance of the Compliance. Stem ACCEPTANCE. Before the Compliance. Indicates, and operating and in the Compliance. MECH-2-A: Ventilation Systems of the Constant Air Volume Systems of the Compliance of the Constant Air Volume Systems of the Compliance of the Constant Air Volume Systems of the Compliance of the Constant Air Volume Systems of the Compliance of the Constant Air Volume Systems of the Compliance of the Constant Air Volume Systems of the Compliance of the Constant Air Volume Systems of the Compliance of the Constant Air Volume Systems of the Compliance of the Constant Air Volume Systems of the Compliance of the Compliance of the Constant Air Volume Systems of the Compliance of the	ical Ventilation and Rehelisc. Prescriptive Required ical Equipment Details and off User Number: 482 OF COMPLIA College designer and attached to the plane tests that apply and list all number of systems to be tested test. Also indicate the person his form will be part of the plane entities and or normal use, all control devices the person tests are normal use, all control devices the person tests are not	eat is required for all sements is required for all sements is required for all per required for all per 22 Job N NCE lans. Listed below are all the equipment that requires and in parentheses. The NJ in responsible for performing instance of this section anted for a newly constructed sessoring the building or set to be submitted to the building the requirements of Section	all prescriptive subformance submittals formance submittals lumber 2007-0731 (Pa (Pa The acceptance tests for men acceptance test. If all end acceptance tests for men acceptance test. If all end acceptance tests (i.e. the installing on will allow the responsible end building or space, or a space shall be certified as any department that certifier	e required chanical version in the party to but the party to but the plants, specific plant	Page 2) MECI DATE 8/26/20 stems. The design a certain type required Appendix of the North design profession added for the scope conditioning systems. Acceptance Required Appendix of the Scope conditioning systems.	plans. 1 of 10 1 of 10 008 her is requires a test onresider on al or an e of work m serving tirements
MECH-2-C: Air/Water/ plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySe ERTIFICATE DJECT NAME Canada Signer: Sofrm is to be used by the cock the boxes by all acceptal ipment description and the M Manual that describes the exted by the owner). Since the propriately. Jilding Department of the compliance of the Compliance. Stem ACCEPTANCE. Before the Compliance. Indicates, and operating and in the Compliance. MECH-2-A: Ventilation Systems of the Constant Air Volume Systems of the Compliance of the Constant Air Volume Systems of the Compliance of the Constant Air Volume Systems of the Compliance of the Constant Air Volume Systems of the Compliance of the Constant Air Volume Systems of the Compliance of the Constant Air Volume Systems of the Compliance of the Constant Air Volume Systems of the Compliance of the Constant Air Volume Systems of the Compliance of the Constant Air Volume Systems of the Compliance of the Compliance of the Constant Air Volume Systems of the Compliance of the	ical Ventilation and Rehelisc. Prescriptive Required ical Equipment Details and off User Number: 482 OF COMPLIA College designer and attached to the plane tests that apply and list all number of systems to be tested test. Also indicate the person his form will be part of the plane entities and or normal use, all control devices the person tests are normal use, all control devices the person tests are not	eat is required for all sements is required for all sements is required for all per required for all per 22 Job N NCE lans. Listed below are all the equipment that requires and in parentheses. The NJ in responsible for performing instance of this section anted for a newly constructed sessoring the building or set to be submitted to the building the requirements of Section	all prescriptive subformance submittals formance submittals lumber 2007-0731 (Pa (Pa The acceptance tests for men acceptance test. If all end acceptance tests for men acceptance test. If all end acceptance tests (i.e. the installing on will allow the responsible end building or space, or a space shall be certified as any department that certifier	e required chanical version in the party to but the party to but the plants, specific plant	Page 2) MECI DATE 8/26/20 stems. The design a certain type required Appendix of the North design profession added for the scope conditioning systems. Acceptance Required Appendix of the Scope conditioning systems.	plans. 1 of 10 1 of 10 008 her is requires a test onresider on al or an e of work m serving tirements
MECH-2-C: Air/Water/Plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySe ERTIFICATE DJECT NAME Canada Signer: Sofrm is to be used by the cock the boxes by all acceptant ipment description and the M Manual that describes the Manual that desc	Service/Water Pools Redical Ventilation and Rehelisc. Prescriptive Required ical Equipment Details and oft User Number: 482 OF COMPLIA College designer and attached to the planetests that apply and list all number of systems to be tested test. Also indicate the person his form will be part of the planetest. Preserved and control devices the person of the planetest and person of the pl	eat is required for all sements is required for all sements is required for all per required for all per 22 Job N NCE lans. Listed below are all the equipment that requires and in parentheses. The NJ in responsible for performing instance of this section anted for a newly constructed sessoring the building or set to be submitted to the building the requirements of Section	all prescriptive subformance submittals formance submittals lumber 2007-0731 (Pa (Pa The acceptance tests for men acceptance test. If all end acceptance tests for men acceptance test. If all end acceptance tests (i.e. the installing on will allow the responsible end building or space, or a space shall be certified as any department that certifier	e required chanical version in the party to but the party to but the plants, specific plant	Page 2) MECI DATE 8/26/20 stems. The design a certain type required Appendix of the North design profession added for the scope conditioning systems. Acceptance Required Appendix of the Scope conditioning systems.	plans. 1 of 10 1 of 10 008 her is requires a test onresider on al or an e of work m serving tirements
MECH-2-C: Air/Water/plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySe ERTIFICATE DJECT NAME Canada Complete Complete Complete Complete Composition and the objected by the owner). Since the complete Complete Compliance Canada Canada Canada Canada Canada Canada Complete Complete Complete Complete Complete Compliance Compliance	Service/Water Pools Redical Ventilation and Rehelisc. Prescriptive Required ical Equipment Details and oft User Number: 482 OF COMPLIA College designer and attached to the planetests that apply and list all number of systems to be tested test. Also indicate the person his form will be part of the planetest. Preserved and control devices the person of the planetest and person of the pl	eat is required for all sements is required for all sements is required for all per required for all per 22 Job N NCE lans. Listed below are all the equipment that requires and in parentheses. The NJ in responsible for performing instance of this section anted for a newly constructed sessoring the building or set to be submitted to the building the requirements of Section	all prescriptive subformance submittals formance submittals lumber 2007-0731 (Pa (Pa The acceptance tests for men acceptance test. If all end acceptance tests for men acceptance test. If all end acceptance tests (i.e. the installing on will allow the responsible end building or space, or a space shall be certified as any department that certified	e required chanical version in the party to but the party to but the plants, specific plant	Page 2) MECI DATE 8/26/20 stems. The design a certain type required Appendix of the North design profession added for the scope conditioning systems. Acceptance Required Appendix of the Scope conditioning systems.	plans. 1 of 10 1 of 10 008 her is requires a test onresider on al or an e of work m serving tirements
MECH-2-C: Air/Water/plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySt ERTIFICATE DJECT NAME Canada Signer: form is to be used by the cook the boxes by all acceptate predicted by the owner). Since the coted by	Service/Water Pools Redical Ventilation and Rehelisc. Prescriptive Required ical Equipment Details and off User Number: 482 OF COMPLIA College designer and attached to the plane tests that apply and list all number of systems to be tested test. Also indicate the person his form will be part of the plane ents: Ore an occupancy permit is graph or normal use, all control devices the person of the plane ents. Option (Pool of the plane) College designer and attached to the plane test. Also indicate the person his form will be part of the plane ents. Option (Pool of the plane) Opt	eat is required for all sements is required for all sements is required for all per required for all per 22 Job N NCE lans. Listed below are all the equipment that requires and in parentheses. The NJ in responsible for performing instance of this section anted for a newly constructed sessoring the building or set to be submitted to the building the requirements of Section	all prescriptive subformance submittals formance submittals lumber 2007-0731 (Pa (Pa The acceptance tests for men acceptance test. If all end acceptance tests for men acceptance test. If all end acceptance tests (i.e. the installing on will allow the responsible end building or space, or a space shall be certified as any department that certified	e required chanical version in the party to but the party to but the plants, specific plant	Page 2) MECI DATE 8/26/20 stems. The design a certain type required Appendix of the North design profession added for the scope conditioning systems. Acceptance Required Appendix of the Scope conditioning systems.	plans. 1 of 10 1 of 10 008 her is requires a test onresider on al or an e of work m serving tirements
MECH-2-C: Air/Water/plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySe ERTIFICATE DJECT NAME Canada Signer: form is to be used by the cook the boxes by all acceptant pment description and the manual that describes the coted by the owner). Since the correction of the compliance of the compliance. Idition a Certificate of Acceptant and operating acceptant operation of the compliance. MECH-2-A: Ventilation Systems operated for the compliance of the comp	Service/Water Pools Redical Ventilation and Rehelisc. Prescriptive Required ical Equipment Details and oft User Number: 482 OF COMPLIA College designer and attached to the planetests that apply and list all number of systems to be tested test. Also indicate the person this form will be part of the planetest. Ore an occupancy permit is grader normal use, all control devices the person that the person testems outdoor Air Acceptance and the person testems Outdoor Air Acceptance stems Outdoor Air Acceptance ance testing. Oth New Construction and Retrofit. Cosystems Acceptance Document testing. Oth New Construction and Retrofit. Divide Construction and Retrofit.	eat is required for all sements is required for all sements is required for all per required for all per 22 Job N NCE lans. Listed below are all the equipment that requires and in parentheses. The NJ is responsible for performing ins, completion of this section anted for a newly constructes serving the building or set the requirements of Section to the requirements of Section the requirements of Section to the requirements of Section to the submitted to the building the requirements of Section to the requirements of Sec	all prescriptive subformance submittals formance submittals fumber 2007-0731 (Pa the acceptance tests for men acceptance test. If all echamber designates the Set of the tests (i.e. the installing on will allow the responsible ed building or space, or a space shall be certified as in a pace shall be certified as in a pace shall be certified as in 10-103(b) and Title 24 P	erequired chanical volumentals, but a chanical system of a certain in the ang contractor le party to but meeting the system of the party to but a contractor le party to but a certain in the ang contractor le party to but a certain in the ang contractor le party to but a certain in the ang contractor le party to but a certain in the angle contractor le party to but a certain in the angle contractor le party to but a certain in the angle contractor le party to but a certain in the angle ce	Page 2) MECI DATE 8/26/20 stems. The design a certain type required Appendix of the North design profession added for the scope conditioning systems. Acceptance Required Appendix of the Scope conditioning systems.	plans. 1 of 10 1 of 10 008 her is requires a test onresider on al or an e of work m serving tirements
MECH-2-C: Air/Water/plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySe ERTIFICATE DJECT NAME Canada Signer: form is to be used by the cook the boxes by all acceptant pment description and the manual that describes the coted by the owner). Since the correction of the compliance of the compliance. Idition a Certificate of Acceptant and operating acceptant operation of the compliance. MECH-2-A: Ventilation Systems operated for the compliance of the comp	Service/Water Pools Redical Ventilation and Rehelisc. Prescriptive Required ical Equipment Details and off User Number: 482 OF COMPLIA College designer and attached to the planete tests that apply and list all number of systems to be tested test. Also indicate the person this form will be part of the planetest. Programment is graner and occupancy permit is graner normal use, all control devices the person tests. The programment is graner normal use, all control devices the person outdoor Air Acceptance and testing. Set New Construction and Retrofit.	eat is required for all sements is required for all sements is required for all per required for all per 22 Job N NCE lans. Listed below are all the equipment that requires and in parentheses. The NJ is responsible for performing ins, completion of this section anted for a newly constructes serving the building or set the requirements of Section to the requirements of Section the requirements of Section to the requirements of Section to the submitted to the building the requirements of Section to the requirements of Sec	all prescriptive subformance submittals formance submittals fumber 2007-0731 (Pa the acceptance tests for men acceptance test. If all echamber designates the Set of the tests (i.e. the installing on will allow the responsible ed building or space, or a space shall be certified as in a pace shall be certified as in a pace shall be certified as in 10-103(b) and Title 24 P	erequired chanical volumentals, but a chanical system of a certain in the ang contractor le party to but meeting the system of the party to but a contractor le party to but a certain in the ang contractor le party to but a certain in the ang contractor le party to but a certain in the ang contractor le party to but a certain in the angle contractor le party to but a certain in the angle contractor le party to but a certain in the angle contractor le party to but a certain in the angle ce	Page 2) MECI DATE 8/26/20 stems. The design a certain type required Appendix of the North design profession added for the scope conditioning systems. Acceptance Required Appendix of the Scope conditioning systems.	plans. 1 of 10 1 of 10 008 her is requires a test onresider on al or an e of work m serving tirements
MECH-2-C: Air/Water/plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySe ERTIFICATE DJECT NAME Canada Cosigner: form is to be used by the cosk the boxes by all acceptal pment description and the composition of the compositi	ical Ventilation and Rehelisc. Prescriptive Required ical Equipment Details and off User Number: 482 OF COMPLIA! College designer and attached to the plane tests that apply and list all number of systems to be tested test. Also indicate the person his form will be part of the plane enter an occupancy permit is graph or normal use, all control devices the person of the plane of the plane enter an occupancy permit is graph or normal use, all control devices the person of the plane of the plane enter the person occupancy permit is graph or normal use, all control devices the person of the plane enter the plan	eat is required for all sements is required for all sements is required for all per required for all per 22 Job N NCE lans. Listed below are all the equipment that requires and in parentheses. The NJ is responsible for performing ins, completion of this section anted for a newly constructes serving the building or set the requirements of Section to the requirements of Section the requirements of Section to the requirements of Section to the submitted to the building the requirements of Section to the requirements of Sec	all prescriptive subformance submittals formance submittals fumber 2007-0731 (Pa the acceptance tests for men acceptance test. If all echamber designates the Set of the tests (i.e. the installing on will allow the responsible ed building or space, or a space shall be certified as in a pace shall be certified as in a pace shall be certified as in 10-103(b) and Title 24 P	erequired chanical volumentals, but a chanical system of a certain in the ang contractor le party to but meeting the system of the party to but a contractor le party to but a certain in the ang contractor le party to but a certain in the ang contractor le party to but a certain in the ang contractor le party to but a certain in the angle contractor le party to but a certain in the angle contractor le party to but a certain in the angle contractor le party to but a certain in the angle ce	Page 2) MECI DATE 8/26/20 stems. The design a certain type required Appendix of the North design profession added for the scope conditioning systems. Acceptance Required Appendix of the Scope conditioning systems.	plans. 1 of 10 1 of 10 008 her is requires a test onresider on al or an e of work m serving tirements
MECH-2-C: Air/Water/ plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySe ERTIFICATE DJECT NAME Canada Signer: Form is to be used by the cock the boxes by all acceptation and the land Manual that describes the locked by the owner). Since the repriately. Iliding Department describes the locked by the owner). Since the repriately. Iliding Department describes the locked by the owner). Since the locked by the owner is operated for the compliance. In the locked by the owner is operated for the locked by the owner is operated for the locked by the owner. In the locked by the owner is operated for the locked by the owner is operated for the locked by the owner. In the locked by the owner is operated for the locked by the owner is operated for the locked by the owner. In the locked by the owner is operated for the locked by the owner is operated for the locked by the owner. In the locked by the owner is operated for the locked by the owner is operated for the locked by the owner. In the locked by the owner is operated for the locked by the owner is operated by the owner is operated for the locked by the owner is operated by the owner is operated for the locked by the owner is operated by the owner is op	ical Ventilation and Rehelisc. Prescriptive Required ical Equipment Details and off User Number: 482 OF COMPLIA! College designer and attached to the plane tests that apply and list all number of systems to be tested test. Also indicate the person his form will be part of the plane enter an occupancy permit is graph or normal use, all control devices the person of the plane of the plane enter an occupancy permit is graph or normal use, all control devices the person of the plane of the plane enter the person occupancy permit is graph or normal use, all control devices the person of the plane enter the plan	quirements. Part 1 of eat is required for all sements is required for all per are required for all per 22. Job Note: It is a parenthese and in parentheses. The NJ is responsible for performing ins, completion of this section anted for a newly constructed es serving the building or set the requirements of Section at the requirements of Section and	all prescriptive subformance submittals formance submittals fumber 2007-0731 (Pa the acceptance tests for men acceptance test. If all end acceptance tests for men acceptance tests (i.e. the installing on will allow the responsible and building or space, or a space shall be certified as in a graph of the part of the	erequired chanical vibranical vibranical vibranical system of a certain in the ving contractor le party to but meeting the series plans, speciart 6.	Page 2) MECI DATE 8/26/20 stems. The design a certain type required Appendix of the North design profession added for the scope conditioning systems. Acceptance Required Appendix of the Scope conditioning systems.	plans. 1 of 10 1 of 10 008 her is requires a test onresider on al or an e of work m serving tirements
MECH-2-C: Air/Water/plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySe ERTIFICATE DJECT NAME Canada Signer: Form is to be used by the cock the boxes by all acceptal ipment description and the cock the boxes by all acceptal ipment description and the cock the boxes by all acceptal ipment description and the cock that describes the cock do a compliance. MECH-3-A: Department of the compliance of the com	Service/Water Pools Redical Ventilation and Rehelisc. Prescriptive Required ical Equipment Details and off User Number: 482 OF COMPLIA College designer and attached to the planete tests that apply and list all number of systems to be tested test. Also indicate the person his form will be part of the planetest. Also indicate the person his form will be part of the planetest. Provided the part of the planetest. The provided is a provided to the planetest. The provided is a provided to the planetest. The provided is a provided to the planetest of the planetest	eat is required for all sements is required for all sements is required for all per are required for all per 22. Job Note: It is a sequired for all per 22. Job Note: It is a sequired below are all the equipment that requires and in parentheses. The NJ is responsible for performing ins, completion of this section anted for a newly constructed es serving the building or set in the requirements of Section at the requirements of Section and the submitted to the building the requirements of Section and the r	submittals with mechanism and prescriptive subformance submittals furnber 2007-0731 (Patheral acceptance tests for menhance acceptance test. If all echanism acceptance tests for menhance designates the Seguithe tests (i.e. the installing on will allow the responsible additional acceptance that certified as in pace shall be certified as ing department that certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory acceptance or semiconditioned space talled at the factory acceptance o	erequired chanical volumentals, best. rt 2 of a chanical synquipment of a cation in the ang contractor lee party to but meeting the art 6.	Page 2) MECI DATE 8/26/20 stems. The design a certain type required Appendix of the North design profession added for the scope conditioning systems. Acceptance Required Appendix of the Scope conditioning systems.	plans. 1 of 10 1 of 10 008 her is requires a test onresider on al or an e of work m serving tirements
MECH-2-C: Air/Water/ plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySe ERTIFICATE DJECT NAME Canada Esigner: Form is to be used by the cock the boxes by all acceptanipment description and the M Manual that describes the Method by the owner). Since the propriately. Iliding Department of the William of the Manual that describes the Manual that describes the Manual that describes the Method by the owner). Since the repriately. Iliding Department of the William of the Manual that describes the Method by the owner). Since the Method by the owner of the Compliance. In the Manual that describes the Method of the William o	Service/Water Pools Recical Ventilation and Rehelical Ventilation and Rehelical Prescriptive Required Italian Equipment Details and off User Number: 482 OF COMPLIAN College Designer and attached to the planetests that apply and list all number of systems to be testered test. Also indicate the person his form will be part of the planetest. Also indicate the person his form will be part of the planetest. The prescription of the planetest and control devices the person occupancy permit is grader normal use, all control devices the person of the planetest and the person of the planetest information meet the person of the planetest information meet information meet information meet information meet information and Retrofit. The person of the planetest information and Retrofit. The person of the planetest information in information in the person of the planetest information and Retrofit. The person of	eat is required for all sements is required for all sements is required for all per required for all per 22 Job N NCE lans. Listed below are all the equipment that requires and in parentheses. The NJ is responsible for performing ins, completion of this section anted for a newly constructed es serving the building or sell be submitted to the building in the requirements of Section that meet the above requirements of the meet the above requirements.	submittals with mechanism and prescriptive subformance submittals furnber 2007-0731 (Patheral acceptance tests for menhance acceptance test. If all echanism acceptance tests for menhance designates the Seguithe tests (i.e. the installing on will allow the responsible additional acceptance that certified as in pace shall be certified as ing department that certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory acceptance or semiconditioned space talled at the factory acceptance o	erequired chanical volumentals, best. rt 2 of a chanical synquipment of a cation in the ang contractor lee party to but meeting the art 6.	Page 2) MECI DATE 8/26/20 stems. The design a certain type required Appendix of the North design profession added for the scope conditioning systems. Acceptance Required Appendix of the Scope conditioning systems.	plans. 1 of 10 1 of 10 008 her is requires a test onresider on al or an e of work m serving tirements
MECH-2-C: Air/Water/ plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySi ERTIFICATE DJECT NAME Canada Signer: Inform is to be used by the control of the second	Service/Water Pools Recical Ventilation and Rehelical Ventilation and Rehelical Prescriptive Required Italian Equipment Details and off User Number: 482 OF COMPLIAN College Designer and attached to the planetests that apply and list all number of systems to be testered test. Also indicate the person his form will be part of the planetest. Also indicate the person his form will be part of the planetest. The prescription of the planetest and control devices the person occupancy permit is grader normal use, all control devices the person of the planetest and the person of the planetest information meet the person of the planetest information meet information meet information meet information meet information and Retrofit. The person of the planetest information and Retrofit. The person of the planetest information in information in the person of the planetest information and Retrofit. The person of	quirements. Part 1 of eat is required for all sements is required for all per required for all per 22 Job N NCE lans. Listed below are all the equipment that requires and in parentheses. The NJ is responsible for performing ins, completion of this section anted for a newly constructed es serving the building or sell be submitted to the building it the requirements of Section ent. Units with economizers that are inspection.	submittals with mechanism and prescriptive subformance submittals furnber 2007-0731 (Patheral acceptance tests for menhance acceptance test. If all echanism acceptance tests for menhance designates the Seguithe tests (i.e. the installing on will allow the responsible additional acceptance that certified as in pace shall be certified as ing department that certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory acceptance or semiconditioned space talled at the factory acceptance o	erequired chanical volumentals, best. rt 2 of a chanical synquipment of a cation in the ang contractor lee party to but meeting the art 6.	Page 2) MECI DATE 8/26/20 stems. The design a certain type required Appendix of the North design profession added for the scope conditioning systems. Acceptance Required Appendix of the Scope conditioning systems.	plans. 1 of 10 1 of 10 008 her is requires a test onresider on al or an e of work m serving tirements
MECH-2-C: Air/Water/plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySe ERTIFICATE DJECT NAME Canada Signer: form is to be used by the cett the boxes by all acceptate pment description and the Manual that describes the ceted by the owner). Since the ceted to a ceted the ceted by the owner). Since the ceted to a ceted the ceted on all New systems by the ceted of the ceted on all New systems by the ceted on the cet	Service/Water Pools Redical Ventilation and Rehalisc. Prescriptive Required Itsc. Prescriptive Research Also indicate the person this form will be part of the plantage of the plantage of the plantage Itsc. Prescriptive Rechange Itsc. Prescriptive Rechang	eat is required for all sements is required for all sements is required for all per green required for all per 22. Job Note: Identify the equipment that requires and in parentheses. The NJ is responsible for performing instance of the building or set in the requirements of Section and the requirements of Section in the requirements of the tested.	submittals with mechanism and prescriptive subformance submittals furnber 2007-0731 (Patheral acceptance tests for menhance acceptance test. If all echanism acceptance tests for menhance designates the Seguithe tests (i.e. the installing on will allow the responsible additional acceptance that certified as in pace shall be certified as ing department that certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory acceptance or semiconditioned space talled at the factory acceptance o	erequired chanical volumentals, best. rt 2 of a chanical synquipment of a cation in the ang contractor lee party to but meeting the art 6.	Page 2) MECI DATE 8/26/20 stems. The design a certain type required Appendix of the North design profession added for the scope conditioning systems. Acceptance Required Appendix of the Scope conditioning systems.	plans. 1 of 10 1 of 10 008 her is requires a test onresider on al or an e of work m serving tirements
MECH-2-C: Air/Water/Plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySi ERTIFICATE DJECT NAME Canada Signer: form is to be used by the cook the boxes by all acceptant present description and the modern of Manual that describes the coted by the owner). Since the compliance of the Compliance. Idition Department of Compliance. Idition a Certificate of Acceptance of Compliance of Compliance. Idition a Certificate of Acceptance of Compliance of Compliance. Idition a Certificate of Acceptance of Compliance	Service/Water Pools Recombined Pools Rec	eat is required for all sements is required for all sements is required for all per green required for all per 22. Job Note: Identify the equipment that requires and in parentheses. The NJ is responsible for performing instance of the building or set in the requirements of Section and the requirements of Section in the requirements of the tested.	submittals with mechanism and prescriptive subformance submittals furnber 2007-0731 (Patheral acceptance tests for menhance acceptance test. If all echanism acceptance tests for menhance designates the Seguithe tests (i.e. the installing on will allow the responsible additional acceptance that certified as in pace shall be certified as ing department that certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory acceptance or semiconditioned space talled at the factory acceptance o	erequired chanical volumentals, best. rt 2 of a chanical synquipment of a cation in the ang contractor lee party to but meeting the art 6.	Page 2) MECI DATE 8/26/20 stems. The design a certain type required Appendix of the North design profession added for the scope conditioning systems. Acceptance Required Appendix of the Scope conditioning systems.	plans. 1 of 10 1 of 10 008 her is requires a test onresider on al or an e of work m serving tirements
MECH-2-C: Air/Water/Plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySt ERTIFICATE DJECT NAME Canada Esigner: In form is to be used by the control of the cont	Service/Water Pools Recombined Pools Rec	quirements. Part 1 of eat is required for all sements is required for all per green required for all per 22. Job Miles and in parentheses. The NJ is responsible for performing instance of the building or selection of this section anted for a newly constructed sesserving the building or selection. Units with economizers that are instance that meet the above requirements of the tested. Document	submittals with mechanism and prescriptive subformance submittals furnber 2007-0731 (Patheral acceptance tests for menhance acceptance test. If all echanism acceptance tests for menhance designates the Seguithe tests (i.e. the installing on will allow the responsible additional acceptance that certified as in pace shall be certified as ing department that certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory acceptance or semiconditioned space talled at the factory acceptance o	erequired chanical volumentals, best. rt 2 of a chanical synquipment of a cation in the ang contractor lee party to but meeting the art 6.	Page 2) MECI DATE 8/26/20 stems. The design a certain type required Appendix of the North design profession added for the scope conditioning systems. Acceptance Required Appendix of the Scope conditioning systems.	plans. 1 of 10 1 of 10 008 her is requires a test onresider on al or an e of work m serving tirements
MECH-2-C. Air/Water/Plans. MECH-3-C: Mechani MECH-4-C: HVAC M MECH-5-C: Mechani EnergyPro 4.4 by EnergySi ERTIFICATE OJECT NAME Canada Signer: Soform is to be used by the control of the contro	Service/Water Pools Record Ventilation and Rehelical Ventilation and Rehelical Ventilation and Required Its. Prescriptive Required Its. Prescriptive Required Its. Prescriptive Required Its. Prescriptive Required Its. Prescription of the User Number: 482 Designer and attached to the plantage of the pla	quirements. Part 1 of eat is required for all sements is required for all per green requires and in parentheses. The NJ is responsible for performing and responsible for performing and responsible for a newly constructed es serving the building or set the requirements of Section and the requirements of Section representation.	submittals with mechanism and prescriptive subformance submittals furnber 2007-0731 (Patheral acceptance tests for menhance acceptance test. If all echanism acceptance tests for menhance designates the Seguithe tests (i.e. the installing on will allow the responsible additional acceptance that certified as in pace shall be certified as ing department that certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) and Title 24 Patheral acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory and certified in 10-103(b) acceptance or semiconditioned space talled at the factory acceptance or semiconditioned space talled at the factory acceptance o	erequired chanical volumentals, but a chanical synguipment of a cation in the ang contractor lee party to but mew space-comeeting the art 6.	Page 2) MECI DATE 8/26/20 stems. The design a certain type required Appendix of the North design profession added for the scope conditioning systems. Acceptance Required Appendix of the Scope conditioning systems.	plans. 1 of 10 1 of 10 008 her is requires a test onresider on al or an e of work m serving tirements

-Supply Water Temperature Reset Controls

Equipment requiring acceptance testing _____

-Water-loop Heat Pump Controls

Applies to new constant flow chilled and hot water systems that have a design capacity greater than or equal to 500,000 Btu/hr.

Job Number: 2007-0731

Page:2 of 10

-Variable Frequency Controls Applies to all new distribution pumps on new variable flow chilled, hydronic heat pump

Applies to all new waterloop heat pump systems where the combined loop pumps are greater than 5 hp.

or condenser water systems where the pumps motors are greater than 5 hp

EnergyPro 4.4 by EnergySoft User Number: 4822

TITLE 24 2005 MANDATORY MEASURES

ENVELOPE MANDATORY MEASURES

- 118(a) INSTALLED INSULATING MATERIAL SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY 113 WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL, TITLE 20, CHAPTER 4, ARTICLE 3.
- 118(c) ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF SECTIONS 2602 AND 707 OF TITLE 24, PART 2.
- 117(a) ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING THAT ARE OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED OR OTHERWISE SEALED.
- 116(b) SITE CONSTRUCTED DOORS, WINDOWS AND SKYLIGHTS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING, AND SHALL BE WEATHERSTRIPPED (EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS).
- 116(a)1 MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES NOT EXCEEDING THOSE SHOWN IN TABLE NUMBER 1—E. OF THE STANDARDS. MANUFACTURED FENESTRATION PRODUCTS MUST BE LABELED FOR U—VALUE ACCORDING TO NFRC PROCEDURES.
- 118(e) DEMISING WALLS IN NONRESIDENTIAL BUILDINGS:
 THE OPAQUE PORTIONS OF FRAMED DEMISING WALLS IN NONRESIDENTIAL BUILDINGS SHALL HAVE INSULATION WITH AN INSTALLED R-VALUE OF NO LESS THAN R-11 BETWEEN FRAMING MEMBERS.

LIGHTING MANDATORY MEASURES

- 131(d)1 FOR EVERY FLOOR, ALL INTERIOR LIGHTING SYSTEMS SHALL BE EQUIPPED WITH A SEPARATE AUTOMATIC CONTROL TO SHUT OFF THE LIGHTING. THIS AUTOMATIC CONTROL SHALL MEET THE REQUIREMENTS OF SECTION 119 AND MAY BE AN OCCUPANCY SENSOR, AUTOMATIC TIME SWITCH, OR OTHER DEVICE CAPABLE OF AUTOMATICALLY SHUTTING OFF THE LIGHTING.
- 131(d)2 OVERRIDE FOR BUILDING LIGHTING SHUT-OFF: THE AUTOMATIC BUILDING SHUT-OFF SYSTEM IS PROVIDED WITH A MANUAL, ACCESSIBLE OVERRIDE SWITCH IN SIGHT OF THE LIGHTS. THE AREA OF OVERRIDE IS NOT TO EXCEED 5,000 SQUARE FEET.
- 19(h) AUTOMATIC CONTROL DEVICES CERTIFIED: ALL AUTOMATIC CONTROL DEVICES SPECIFIED ARE CERTIFIED, ALL ALTERNATE EQUIPMENT SHALL BE CERTIFIED AND INSTALLED AS DIRECTED BY THE MANUFACTURER.
- 1 FLUORESCENT BALLAST AND LUMINAIRES CERTIFIED: ALL FLUORESCENT FIXTURES SPECIFIED FOR THE PROJECT ARE CERTIFIED AND LISTED IN THE DIRECTORY. ALL INSTALLED FIXTURES SHALL BE CERTIFIED.
- TANDEM WIRING FOR ONE AND THREE LAMP FLUORESCENT FIXTURES: ALL ONE AND THREE LAMP FLUORESCENT FIXTURES ARE TANDEM WIRED WITH TWO LAMP BALLASTS WHERE REQUIRED BY STANDARDS SECTION 132; OR ALL ONE AND THREE LAMP FLUORESCENT FIXTURES ARE SPECIFIED WITH ELECTRONIC HIGH—FREQUENCY BALLASTS AND ARE EXEMPT FROM TANDEM WIRING REQUIREMENTS.
- 131(a) INDIVIDUAL ROOM/AREA CONTROLS: EACH ROOM AND AREA IN THIS BUILDING IS EQUIPPED WITH A SEPARATE SWITCH OR OCCUPANCY SENSOR DEVICE FOR EACH AREA WITH FLOOR—TO—CEILING WALLS.
- 131(b) UNIFORM REDUCTION FOR INDIVIDUAL ROOMS: ALL ROOMS AND AREAS GREATER THAN 100 SQUARE FEET AND MORE THAN 0.8 WATTS PER SQUARE FOOT OF LIGHTING LOAD SHALL BE CONTROLLED WITH BI-LEVEL SWITCHING FOR UNIFORM REDUCTION OF LIGHTING WITHIN THE ROOM.
- DAYLIGHT AREA CONTROL: ALL ROOMS WITH WINDOWS AND SKYLIGHTS THAT ARE GREATER THAN 250 SQUARE FEET AND THAT ALLOW FOR THE EFFECTIVE USE OF DAYLIGHT IN THE AREA SHALL HAVE 50% OF THE LAMPS IN EACH DAYLIT AREA CONTROLLED BY A SEPARATE SWITCH; OR THE EFFECTIVE USE OF DAYLIGHT CANNOT BE ACCOMPLISHED BECAUSE THE WINDOWS ARE CONTINUOUSLY SHADED BY A BUILDING ON THE ADJACENT LOT. DIAGRAM OF SHADING DURING DIFFERENT TIMES OF THE YEAR IS INCLUDED ON PLANS.
- 131(e) DISPLAY LIGHTING. DISPLAY LIGHTING SHALL BE SEPARATELY SWITCHED ON CIRCUITS THAT ARE 20 AMPS OR LESS.
- MECHANICAL MANDATORY MEASURES

VENTILATION

- 121(e) CONTROLS SHALL BE PROVIDED TO ALLOW OUTSIDE AIR DAMPERS OR DEVICES TO BE OPERATED AT THE VENTILATION RATES AS SPECIFIED ON THESE PLANS.
- 122(f) GRAVITY OR AUTOMATIC DAMPERS INTERLOCKED AND CLOSED ON FAN SHUTDOWN SHALL BE PROVIDED ON THE OUTSIDE AIR INTAKES AND DISCHARGES OF ALL SPACE CONDITIONING AND EXHAUST SYSTEMS.
- 122(f) ALL GRAVITY VENTILATING SYSTEMS SHALL BE PROVIDED WITH AUTOMATIC OR READILY ACCESSIBLE MANUALLY OPERATED DAMPERS IN ALL OPENINGS TO THE OUTSIDE, EXCEPT FOR COMBUSTION AIR OPENINGS.
- 121(f)1 AIR BALANCING: THE SYSTEM SHALL BE BALANCED IN ACCORDANCE WITH THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB) PROCEDURAL STANDARDS (1983), OR ASSOCIATED AIR BALANCE COUNCIL (AABC) NATIONAL STANDARDS (1989); OR
- OUTSIDE AIR CERTIFICATION: THE SYSTEM SHALL PROVIDE THE MINIMUM OUTSIDE AIR AS SHOWN ON THE MECHANICAL DRAWINGS, AND SHALL BE MEASURED AND CERTIFIED BY THE INSTALLING LICENSED C-20 MECHANICAL CONTRACTOR AND CERTIFIED BY (1) THE DESIGN MECHANICAL ENGINEER, (2) THE INSTALLING LICENCED C-20 MECHANICAL CONTRACTOR, OR (3) THE PERSON WITH OVERALL RESPONSIBILITY FOR THE DESIGN OF THE VENTILATION SYSTEM; OR
- OUTSIDE AIR MEASUREMENT: THE SYSTEM SHALL BE EQUIPPED WITH A CALIBRATED LOCAL OR REMOTE DEVICE CAPABLE OF MEASURING THE QUANTITY OF OUTSIDE AIR ON A CONTINUOUS BASIS AND DISPLAYING THAT QUANTITY ON A READILY ACCESSIBLE DISPLAY DIVICE; OR
- 121(f)4 ANOTHER METHOD APPROVED BY THE COMMISSION.

SERVICE WATER HEATING SYSTEMS

FOLLOWING:

- 113(b)2 IF A CIRCULATING HOT WATER SYSTEM IS INSTALLED, IT SHALL HAVE A CONTROL CAPABLE OF
 ALT 3 AUTOMATICALLY TURNING OFF THE CIRCULATING PUMP(S) WHEN HOT WATER IS NOT REQUIRED.
- 113(b)3B LAVATORIES IN RESTROOMS OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH CONTROLS TO LIMIT THE OUTLET TEMPERATURE TO 110 DEGREES F.
- 113(b)3C LAVATORIES IN RESTROOMS OF PUBLIC FACILITIES SHALL BE EQUIPPED WITH ONE OF THE
 - OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.5 GALLONS PER
 - FOOT ACTUATED CONTROL VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A
 - MAXIMUM OF 0.75 GALLONS PER MINUTE.
 - PROXIMITY SENSOR ACTUATED CONTROL VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 0.75 GALLONS PER MINUTE.
 - SELF-CLOSING VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 2.5 GALLONS PER MINUTE, AND 0.25 GALLONS/CYCLE (CIRCULATING SYSTEM).
 - SELF-CLOSING VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 2.5 GALLONS PER MINUTE, AND 0.50 GALLONS/CYCLE (NON-CIRCULATING SYSTEM).
 - SELF-CLOSING VALVES, AND OUTLET DEVICES THAT LIMIT THE FLOW OF HOT WATER TO A MAXIMUM OF 2.5 GALLONS PER MINUTE, AND 0.75 GALLONS/CYCLE (FOOT SWITCHES AND PROXIMITY SENSOR
- EQUIPMENT AND SYSTEMS EFFICIENCIES
- ANY APPLIANCE FOR WHICH THERE IS A CALIFORNIA STANDARD ESTABLISHED IN THE APPLIANCE EFFICIENCY REGULATIONS WILL COMPLY WITH THE APPLICABLE STANDARD.
- 115(a) FAN TYPE CENTRAL FURNACES SHALL NOT HAVE A PILOT LIGHT.
- 123 PIPING, EXCEPT THAT CONVEYING FLUIDS AT TEMPERATURES BETWEEN 60 AND 105 DEGREES FAHRENHEIT, OR WITHIN HVAC EQUIPMENT, SHALL BE INSULATED IN ACCORDANCE WITH STANDARDS SECTION 123.
- 124 AIR HANDLING DUCT SYSTEMS SHALL BE INSTALLED AND INSULATED IN COMPLIANCE WITH SECTIONS 601, 603 AND 604 OF THE UNIFORM MECHANICAL CODE.

CONTROLS

122(e) EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH ONE OF THE FOLLOWING:

122(e)1A EACH SPACE CONDITIONING SYSTEM SERVING BUILDING TYPES SUCH AS OFFICES AND MANUFACTURING FACILITIES (AND ALL OTHERS NOT EXPLICITLY EXEMPT FROM THE REQUIREMENTS OF SECTION 112 (D)) SHALL BE INSTALLED WITH AN AUTOMATIC TIME SWITCH WITH AN ACCESSIBLE MANUAL OVERRIDE THAT ALLOWS OPERATION OF THE SYSTEM DURING OFF—HOURS FOR UP TO 4 HOURS. THE TIME SWITCH SHALL BE CAPABLE OF PROGRAMMING DIFFERENT SCHEDULES FOR WEEKDAYS AND WEEKENDS AND HAVE PROGRAM BACKUP CAPABILITIES THAT PREVENT THE LOSS OF THE DEVICE'S PROGRAM AND TIME SETTING FOR AT LEAST 10 HOURS IF POWER IS INTERRUPTED; OR

122(e)1B AN OCCUPANCY SENSOR TO CONTROL THE OPERATING PERIOD OF THE SYSTEM; OR

122(e)1C A 4-HOUR TIMER THAT CAN BE MANUALLY OPERATED TO CONTROL THE OPERATING PERIOD OF THE SYSTEM.

- 122(e)2 EACH SPACE CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT TEMPORARILY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN A SETBACK HEATING AND/OR A SETUP COOLING THERMOSTAT SETPOINT.
- 122(g) EACH SPACE CONDITIONING SYSTEM SERVING MULTIPLE ZONES WITH A COMBINED CONDITIONED FLOOR AREA MORE THAN 25,000 SQUARE FEET SHALL BE PROVIDED WITH ISOLATION ZONES. EACH ZONE: SHALL NOT EXCEED 25,000 SQUARE FEET; SHALL BE
- OF HEATING OR COOLING TO BE SETBACK OR SHUT OFF INDEPENDENTLY OF OTHER ISOLATION AREAS; AND SHALL BE CONTROLLED BY A TIME CONTROL DEVICE AS DESCRIBED ABOVE.
- 122(a&b)EACH SPACE CONDITIONING SYSTEM SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTAT
- CONTROL SHALL BE ADJUSTABLE DOWN TO 55 DEGREES F OR LOWER. FOR COOLING, THE CONTROL SHALL BE ADJUSTABLE UP TO 85 DEGREES F OR HIGHER. WHERE USED FOR BOTH HEATING AND COOLING, THE CONTROL SHALL BE CAPABLE OF PROVIDING A DEADBAND OF AT LEAST 5 DEGREES F WITHIN WHICH THE SUPPLY OF HEATING AND COOLING IS SHUT OFF OR
- 122(c) THERMOSTATS SHALL HAVE NUMERIC SETPOINTS IN DEGREES FAHRENHEIT (F) AND ADJUSTABLE SETPOINT STOPS ACCESSIBLE ONLY TO AUTHORIZED PERSONNEL.
- 112(b) HEAT PUMPS SHALL BE INSTALLED WITH CONTROLS TO PREVENT ELECTRIC RESISTANCE SUPPLEMENTARY HEATER OPERATION WHEN THE HEATING LOAD CAN BE MET BY THE HEAT PUMP ALONE.



architecture planning interiors

Bunton Clifford Associates, Inc. 210 Hammond Ave.

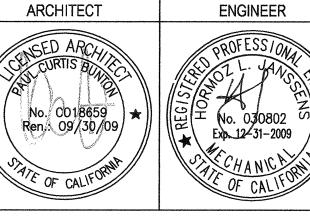
Fremont, California 94539
[T] 510.445.1000
[F] 510.445.1005
www.BCAincOnline.com

PROJECT 2007-0731
CONTACT Omar Hawit

717 Market Street
Suite 500

San Francisco, CA 94103
TEL 415.489.7240
FAX 415.489.7289
www.interfaceengineering.com

ARCHITECT ENGIN



This sheet is part of a set and is not to be used alone.
 This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicates drawings have been released for construction.
 These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
 Copyright Bunton Clifford Associates, 2007

	REMARKS	DATE
\ \A_		
/2_		
_≥		
REVISION HISTORY		
Ĭ A _		
NSIN —		
8_		
/ /9		

	DATE
DSA PLAN CHECK	
□ DSA BACK CHECK	
BIDDING (BID #86593) CONSTRUCTION	
E O CONSTRUCTION	

FILE NO. 41-C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

O1- 110074

AC. W. FIS MASS

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

DSA BACK-CHECK

CAÑADA COLLEGE 4200 Farm Hill Boulevard Redwood City, CA 94061

T-24 MANDATORY MEASURES
AND COMPLIANCE FORMS

Date 01/22/09

M0.2

Drawing Number

AS NOTED
Project Number
07013

PROJECT NAME					PATE 0.000.0000		
Canada College					8/26/2008 LOOR AREA		
AC-5.3					5,886		
AN POWER CONSUMPTION							
Α	В	С	D	E	<u> </u>		
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIE	·····	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C X D		
Supply Fan	14.240	MOTOR 91.7%	DRIVE 97.0%	1.0	11,943		
	Total Adjusti	ments					
FILTER PRESSURE ADJUSTMENT EQUATION 144-A	1) TOTAL FA	N SYSTEM POW	ER (Watts, Sur	n Column F)	11,943		
A) If filter pressure drop is greater than 1 inch W.C. enter	2) SUPPLY D	2) SUPPLY DESIGN AIRFLOW (CFM)					
filter pressure drop. SPa on line 4 and Total Fan pressure	3) TOTAL FA	3) TOTAL FAN SYSTEM POWER INDEX (Row 1/Row 2)					
SPf on Line 5.	4) SPa	4) SPa					
B) Calculate Fan Adjustment and enter on Line 6.	5) SPf						
C) Calculate Adjusted Fan Power Index and enter on Line 7.	6) Fan Adjus	6) Fan Adjustment = 1-(SPa - 1)/SPf					
	7) ADJUSTE	D FAN POWER IN	IDEX (Line 3 x	Line 6)	0.995		

2. Are centrifugal fan cooling towers used on this project? (Enter "Yes" or "No") If centrifugal fan cooling tower are used, explain which exception(s) to Section 144(h) apply.			Total Adjustme	ents					Total Adjustme	ents		
2) SUPPLY DESIGN AIRFLOW (CFM) 2) SUPPLY DESIGN AIRFLOW (CFM) 2) SUPPLY DESIGN AIRFLOW (CFM) 3) Colculate Fan Adjustment and enter on Line 6. 3) Colculate Fan Adjustment and enter on Line 6. 3) Colculate Fan Adjustment and enter on Line 7. 5) Fan Adjustment = 1.(SPa - 1)SPY 7) ADJUSTED FAN POWER INDEX (Row 1/Row 2/S) 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX (Line 3 x Line 6) 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX (Line 3 x Line 6) 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX (Line 3 x Line 6) 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX (Line 3 x Line 6) 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX (Line 3 x Line 6) 2. SUPPLY DESIGN AIRFLOW (CFM) 3. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX (Row 1/Row 2/S) 5) SP! 5) SP! 5) SP! 6) Fan Adjustment = 1.(SPa - 1)SSP! 7) ADJUSTED FAN POWER INDEX or ADJUSTED FAN POWER INDEX (Line 3 x Line 6) 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX (Line 3 x Line 6) 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX (Line 3 x Line 6) 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX (Line 3 x Line 6) 2) SP! 5) SP! 6) Fan Adjustment = 1.(SPa - 1)SSP! 7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6) 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX (Line 3 x Line 6) 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX (Line 3 x Line 6) 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX (Line 3 x Line 6) 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX (Line 3 x Line 6) 2) SP! 7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6) 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX (Line 3 x Line 6) 2) SP! 7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6) 1. TOTAL FAN SYSTEM POWER INDEX (Line 3 x Line 6) 2) SP! 7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6) 1. TOTAL FAN SYSTEM POWER INDEX (Line 3 x Line 6) 2) SP! 7) ADJUSTED FAN POWER INDEX (Line 3 x Line 6) 2) SP! 7) ADJUSTED FAN P	FILTER PRESSURE ADJUSTMENT EQU	IATION	1) TOTAL FAN	SYSTEM POWER (Wa	itts, Sum Column F)	11,943	FILTER PRESSURE ADJUSTMENT EQU	IATION	1) TOTAL FAN	SYSTEM POWER (Watt	ts, Sum Column F)	10,76
3) TOTAL FAN SYSTEM POWER INDEX (Row 1/Row 2) 4) SPa 4) SPB 5) SPF 5 (an Lefs 5, spe 5) SPF on Line 5, spe 5) SPF on Line 6, specified pressure drop. SPa on line 4 and Total Fan pressure SPF on Line 5, specified pressure drop. SPa on line 4 and Total Fan pressure SPF on Line 5, specified pressure drop. SPa on line 4 and Total Fan pressure SPF on Line 5, specified pressure drop. SPa on line 4 and Total Fan pressure SPF on Line 5, specified pressure drop. SPa on line 4 and Total Fan pressure SPF on Line 5, specified pressure drop. SPa on line 4 and Total Fan pressure SPF on Line 5, specified pressure drop. SPa on line 4 and Total Fan pressure SPF on Line 5, specified pressure drop. SPa on line 4 and Total Fan pressure SPF on Line 5, specified pressure drop. SPa on line 4 and Total Fan pressure SPF on Line 5, specified pressure drop. SPa on line 4 and Total Fan pressure SPF on Line 5, specified pressure drop. SPa on line 4 and Total Fan pressure SPF on Line 5, specified pressure drop. SPa on line 4 and Total Fan pressure SPF on Line 5, specified pressure drop. SPa on line 4 and Total Fan pressure SPF on Line 5, specified pressure drop. SPa on line 4 and Total Fan pressure SPF on Line 5, specified pressure drop. SPa on line 4 and Total Fan pressure SPF on Line 5, specified pressure drop. SPa on line 4 and Total Fan pressure SPF on Line 5, specified pressure drop. SPa on line 4 and Total Fan pressure SPF on Line 5, specified pressure drop. SPa on line 4 and Total Fan pressure SPF on Line 5, specified pressure on Line 5, specified pressure on Line 5, specified pressure on Line 6, specified press		nch W.C. enter	2) SUPPLY DES	SIGN AIRFLOW (CFM)		12,000		nch W.C. enter	2) SUPPLY DES	SIGN AIRFLOW (CFM)		11,00
4) SPa 5) SPF 7) ADJUSTED FAN POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 Widen for Constant Volume systems or 1.25 Widen for VAV systems. 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 Widen for Constant Volume systems or 1.25 Widen for VAV systems. 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 Widen for Constant Volume systems or 1.25 Widen for VAV systems. 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 Widen for Constant Volume systems or 1.25 Widen for VAV systems. 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 Widen for Constant Volume systems or 1.25 Widen for VAV systems. 1. TOTAL FAN SYSTEM TAG(S) PRESCRIPTIVE MEASURES Section 144 (i) 144 (i) 144 (ii) 144 (ii) 144 (ii) 144 (ii) 154 (iii) 155 (iiii)	ilter pressure drop. SPa on line 4 and Tot		3) TOTAL FAN	SYSTEM POWER IND	EX (Row 1/Row 2)		filter pressure drop. SPa on line 4 and Total		3) TOTAL FAN	SYSTEM POWER INDE	X (Row 1/Row 2)	
Specific Resistance Heating 144 (g)		line C	4) SPa					line C	4) SPa	***************************************		<u></u>
TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 Width for Constant Volume systems or 1.25 Width for VAV systems. 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 Width for Constant Volume systems or 1.25 Width for VAV systems. 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 Width for Constant Volume systems or 1.25 Width for VAV systems. 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 Width for Constant Volume systems or 1.25 Width for VAV systems. 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 Width for Constant Volume systems or 1.25 Width for VAV systems. 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 Width for Constant Volume systems or 1.25 Width for VAV systems. 1. TOTAL FAN SYSTEM TAG(S) PRESCRIPTIVE MEASURES 1. TOTAL FAN SYSTEM TAG(S) PRESCRIPTIVE MEASURES 1. TOTAL FAN SYSTEM TAG(S) PRESCRIPTIVE MEASURES 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 Width for Constant Volume systems or 1.25 Width for VAV systems. 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 Width for Constant Volume systems or 1.25 Width for VAV systems. 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 Width for Constant Volume systems or 1.25 Width for VAV systems. 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 Width for Constant Volume systems or 1.25 Width for VAV systems. 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 Width for Constant Volume systems or 1.25 Width for VAV systems. 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 Width for Constant Volume systems or 1.25 Width for VAV systems. 1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 Width for Constant Volume systems or 1.25 Width for VAV systems.	s) Calculate Fan Adjustment and enter on	Line 6.	5) SPf				b) Calculate Fan Adjustment and enter on	Line 6.	5) SPf			
TEM or SYSTEM TAG(S) PRESCRIPTIVE MEASURES Electric Resistance Heating 144 (g)	C) Calculate Adjusted Fan Power Index a	nd enter on Line 7.	6) Fan Adjustm	nent = 1-(SPa - 1)/SPf		***************************************	C) Calculate Adjusted Fan Power Index ar	nd enter on Line 7.	6) Fan Adjustm	nent = 1-(SPa - 1)/SPf		
ITEM or SYSTEM TAG(S) PRESCRIPTIVE MEASURES Electric Resistance Heating 144 (g) Heat Rejection System? 144 (h) Air Cooled Chiller Limitation 3 144 (j) I. Total installed capacity (MBtuhr) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used, explain which exception(s) to Section (340) apply. B. Total installed capacity (MBtuhr) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used, explain which exception(s) to Section (340) apply. B. Total installed capacity (Installed c			7) ADJUSTED F	AN POWER INDEX (L	ine 3 x Line 6)	0.995			7) ADJUSTED F	AN POWER INDEX (Lin	ne 3 x Line 6)	0.97
eat Rejection System ² 144 (h) Ir Cooled Chiller Limitation ³ 144 (i) Total installed capacity (MBtu/hr) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used, explain which exception(s) to Section(g) apply. Are centrifugal fan cooling towers used on this project? (Enter "Yes" or "No") If centrifugal fan cooling tower are used, explain which exception(s) to Section (144(h) apply. Total installed capacity (tons) of all water and air cooled chillers under this permit. If there are more than 100 tons of air-cooled chiller capacity being installed, explain which exception(s) to Section 3. Total installed capacity (tons) of all water and air cooled chillers under this permit. If there are more than 100 tons of air-cooled chiller capacity being installed, explain which exception(s) to Section 3. Total installed capacity (tons) of all water and air cooled chillers under this permit. If there are more than 100 tons of air-cooled chiller capacity being installed, explain which exception	K PR	: Casian	vapacity	Lycchion	IAOIG	3	IPRESCRIPTIVE MEASURES	Section	capacity	Lycchaon	IACIGS	
PRESCRIPTIVE MEASURES Section Capacity Exception Notes	TENIO SISIEM IAG						TIEW OF STSTEM TAG	7		T		
Heat Rejection System? 144 (h) Air Cooled Chiller Limitation 3 144 (i) 1. Total installed capacity (MBtu/hr) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used, explain which exception(s) to Section (9) apply. 2. Are centrifugal fan cooling towers used on this project? (Enter "Yes" or "No") If centrifugal fan cooling tower are used, explain which exception(s) to Section 144(h) apply. 3. Total installed capacity (tons) of all water and air cooled chillers under this permit. If there are more than 100 tons of air-cooled chiller capacity being installed, explain which exception (s) to Section which exception (s) to Section which exception (s) to Section 144(h) apply. 3. Total installed capacity (tons) of all water and air cooled chillers under this permit. If there are more than 100 tons of air-cooled chiller capacity being installed, explain which exception (s) to Section which exception (s) to Section 144(h) apply.	DDECCDIDTRIE MEACUDEC	Castian	Capacity	Exception	Note	S	PRESCRIPTIVE MEASURES	Section	Capacity	Exception	Notes	
Air Cooled Chiller Limitation 3 144 (i) Air Cooled Chiller Limitation 3 144 (i) Total installed capacity (MBtu/hr) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used, explain which exception(s) to Section(g) apply. Are centrifugal fan cooling towers used on this project? (Enter "Yes" or "No") If centrifugal fan cooling tower are used, explain which exception(s) to Section 144(h) apply. Total installed capacity (tons) of all water and air cooled chillers under this permit. If there are more than 100 tons of air-cooled chiller capacity being installed, explain which exception (s) to Section 3. Total installed capacity (tons) of all water and air cooled chillers under this permit. If there are more than 100 tons of air-cooled chiller capacity being installed, explain which exception (s) to Section 144(h) apply.	PRESURIPTIVE MEASURES	Section		_			S II Allow do do II All X I M See GA Prom by good a grown do					
1. Total installed capacity (MBtu/hr) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used, explain which exception(s) to Section(g) apply. 1. Total installed capacity (MBtu/hr) of all electric heat on this project exclusive of electric auxiliary heat for heat pumps. If electric heat is used, explain which exception(s) to Section(g) apply. 2. Are centrifugal fan cooling towers used on this project? (Enter "Yes" or "No") If centrifugal fan cooling tower are used, explain which exception(s) to Section 144(h) apply. 3. Total installed capacity (tons) of all water and air cooled chillers under this permit. If there are more than 100 tons of air-cooled chiller capacity being installed, explain which exception (s) to Section 3. Total installed capacity (tons) of all water and air cooled chillers under this permit. If there are more than 100 tons of air-cooled chiller capacity being installed, explain which exception (s) to Section 3. Total installed capacity (tons) of all water and air cooled chillers under this permit. If there are more than 100 tons of air-cooled chiller capacity being installed, explain which exception (s) to Section (g) apply. 2. Are centrifugal fan cooling towers used on this project? (Enter "Yes" or "No") If centrifugal fan cooling tower are used, explain which exception(s) to Section 144(h) apply. 3. Total installed capacity (tons) of all water and air cooled chillers under this permit. If there are more than 100 tons of air-cooled chiller capacity being installed, explain which exception (s) to Section (g) and the capacity (tons) of all water and air cooled chillers under this permit. If there are more than 100 tons of air-cooled chillers under this permit.	Electric Resistance Heating	144 (g)					Electric Resistance Heating	144 (g)				
2. Are centrifugal fan cooling towers used on this project? (Enter "Yes" or "No") If centrifugal fan cooling tower are used, explain which exception(s) to Section 144(h) apply. 2. Are centrifugal fan cooling towers used on this project? (Enter "Yes" or "No") If centrifugal fan cooling tower are used, explain which exception(s) to Section 144(h) apply. 3. Total installed capacity (tons) of all water and air cooled chillers under this permit. If there are more than 100 tons of air-cooled chiller capacity being installed, explain which exception(s) to Section 3. Total installed capacity (tons) of all water and air cooled chillers under this permit. If there are more than 100 tons of air-cooled chiller capacity being installed, explain which exception(s) to Section 3. Total installed capacity (tons) of all water and air cooled chillers under this permit. If there are more than 100 tons of air-cooled chiller capacity being installed, explain which exception(s) to Section 3. Total installed capacity (tons) of all water and air cooled chillers under this permit. If there are more than 100 tons of air-cooled chillers under this permit.	Electric Resistance Heating Heat Rejection System?	144 (g) 144 (h)					Electric Resistance Heating Heat Rejection System	144 (g) 144 (h)				
	Electric Resistance Heating Heat Rejection System Air Cooled Chiller Limitation	144 (g) 144 (h) 144 (i)		for heat pumps. If electric h	eat is used, explain which exc	ception(s) to Section(g) apply.	Electric Resistance Heating Heat Rejection System Air Cooled Chiller Limitation	144 (g) 144 (h) 144 (i)	e of electric auxillary heat	for heat pumps. If electric hea	t is used, explain which excep	ntion(s) to Section(g)
	Electric Resistance Heating Heat Rejection System Air Cooled Chiller Limitation Total installed capacity (MBtu/hr) of all electric heat Are centrifugal fan cooling towers used on this properties. Total installed capacity (tons) of all water and air co	144 (g) 144 (h) 144 (i) ton this project exclusive roject? (Enter "Yes" or	e of electric auxiliary heat "No") If centrifugal fan co	oling tower are used, explain v	which exception(s) to Section 1	44(h) apply.	Electric Resistance Heating Heat Rejection System? Air Cooled Chiller Limitation 1. Total installed capacity (MBtu/hr) of all electric heat 2. Are centrifugal fan cooling towers used on this pr 3. Total installed capacity (tons) of all water and air co	144 (g) 144 (h) 144 (i) t on this project exclusive oject? (Enter "Yes" or	"No") if centrifugal fan co	oling tower are used, explain wh	ich exception(s) to Section 144	(h) apply.
	Electric Resistance Heating Heat Rejection System Air Cooled Chiller Limitation 1. Total installed capacity (MBtu/hr) of all electric hea 2. Are centrifugal fan cooling towers used on this pr 3. Total installed capacity (tons) of all water and air co	144 (g) 144 (h) 144 (i) ton this project exclusive roject? (Enter "Yes" or	e of electric auxiliary heat "No") If centrifugal fan co	oling tower are used, explain v	which exception(s) to Section 1	44(h) apply.	Electric Resistance Heating Heat Rejection System? Air Cooled Chiller Limitation 1. Total installed capacity (MBtu/hr) of all electric heat 2. Are centrifugal fan cooling towers used on this pr 3. Total installed capacity (tons) of all water and air co	144 (g) 144 (h) 144 (i) t on this project exclusive oject? (Enter "Yes" or	"No") if centrifugal fan co	oling tower are used, explain wh	ich exception(s) to Section 144	(h) apply.
	Electric Resistance Heating Heat Rejection System Air Cooled Chiller Limitation 1. Total installed capacity (MBtu/hr) of all electric hea 2. Are centrifugal fan cooling towers used on this pr 3. Total installed capacity (tons) of all water and air co	144 (g) 144 (h) 144 (i) ton this project exclusive roject? (Enter "Yes" or	e of electric auxiliary heat "No") If centrifugal fan co	oling tower are used, explain v	which exception(s) to Section 1	44(h) apply.	Electric Resistance Heating Heat Rejection System? Air Cooled Chiller Limitation 1. Total installed capacity (MBtu/hr) of all electric heat 2. Are centrifugal fan cooling towers used on this pr 3. Total installed capacity (tons) of all water and air co	144 (g) 144 (h) 144 (i) t on this project exclusive oject? (Enter "Yes" or	"No") if centrifugal fan co	oling tower are used, explain wh	ich exception(s) to Section 144	(h) apply.

MECH-4-C

MECHANICAL SIZING AND FAN POWER

MECHANICAL SIZING AND FAN POWER

EnergyPro 4.4 by EnergySoft User Number: 4822

PROJECT NAME
Canada College

FAN POWER CONSUMPTION

FAN DESCRIPTION

Supply Fan

MECH-4-C

8/26/2008 FLOOR AREA 9,190

MECH-4-C

Page:8 of 10

PROJECT NAME Canada Colle	ege							Al-Ministrace de la contrace con	belinare aponemies e la cospença de ann	D/	ATE 8/2	6/200	8
							enantes (esta esta esta esta esta est		PRE	SCRIP	TIVE REH	IEAT	
MECHANICAL VENTILATIO				0001	PANCY	DACIC	T	******************	LIMI		(Section	144(d))	
A	В	EA BAS	D D	E	F	G G	Н	1	j	VAV MI K	L	М	N
ZONE/SYSTEM	Condition Area (SF)	CFM per Square Foot	Min CFM by Area (B x C)	Number of People	CFM per Person	Min CFM by Occupant (E x F)	REQ'D V.A Max of (D or G)	Design Vent. Air CFM	30% of Design Zone Supply CFM	B x 0.4 CFM/sq. ft.	Max of Columns H, J, K or 300 CFM	Design Min. Ai Setpoint	Transfer Air
10-Work,Break	258	0.50	129				129	131		103	f 1	•	
1-Seminar	318	0.38	121				121	121		127	300		
2-Seminar	27	0.38	103				103	103		108	300		
3-Seminar	400	0.38	152	***			152	152		160	300		
4-Classroom	932	0.38	354				354	354		373	372		
5-Classroom	901	0.38	342				342	342		360	360		
6-Classroom & Hallway	1,140	0.38	433				433	356		456	456		78
9-Director	313	0.15	47	waren indoor and an annual			47	28		125	300		19
11-Offices	528	0.15	79				79	50		211	300		29
12/14-CentDup, Mail	1,311	0.15	197				197	100		524	524		97
13-Office	117	0.15	18				18	18		47	300		
7-Office, Storage	160	0.50	80				80	11		64	300		69
8-Corridor	1,367	0.15	205				205	52		547	546		153
15-Food Storage	1,174	0.15	176				176	244		470	469		
AC-5.1						Total	2,436	2,060					
1-Cafeteria	6,55	0.50	3,276				3,276	18,000					
2-Offices	498	0.15	75				75	47		199	300		27
AC-5.2						Total	3,350	18,047					
11-Psych Coor Off	125	0.15	19				19	12		50	300		7
6-Waiting	575	0.15	86				86	153		230	300		
1-Office	304	0.15	46				46	29		122	300		17
2-Work Space	757	0.15	114				114	72		303	302		42
3-Student Govt. Office	183	0.15	27	-			27	23		73	300		4
4-Lobby	791	0.15	119				119	30		316	316		89
5-Meeting Room	289	<u></u>	144				144	110		116	300		35
C Minimum ventilation rate per Section E Based on fixed seat or the greater	of the expecte	d number o	of occupan	ts and 50%	6 of the CB	C occupant	load for eq	ress purpos	ses for spac	es without	fixed seating	1.	
H Required Ventilation Air (REQ'D V Must be greater than or equal to H						AREA or O	CCUPANC	Y BASIS (c	olumn D or	G).	***************************************		
J Design fan supply cfm (Fan CFM) x	30%; or						************		······································				***************************************
K Condition area (ft. sq.) x 04 cfm/ft. s L Maximum of Columns H, J, K, or 30									***************************************				
M This must be less than or equal to N Transfer air must be provided whe to the difference between the Requ	re the Require	d Ventilatio	n Air (colu	mn I) is gr	eater than	the Design	Minimum A), column H	Air (column I - M.	M). Where	required, tr	ansfer air m	ust be grea	iter than or
EnergyPro 4.4 by EnergySoft	Use	r Number	4822			lob Numbe	er: 2007-0)731				Page:5 of	f 10

PROJECT NAME Canada College				B/26/2008
SYSTEM FEATURES				0/20/2000
		AIR	SYSTEMS, Central or Single	Zone
ITEM OR SYSTEM TAG(S)		AC-5.1	AC-5.2	AC-5.3
Number of Systems		1	1	1
MANDATORY MEASURES	T-24 Section	Ref	erence on Plans or Specifica	ation ¹
Heating Equipment Efficiency	112(a)	n/a	n/a	n/a
Cooling Equipment Efficiency	112(a)	n/a	n/a	n/a
Heat Pump Thermostat	112(b)	n/a	n/a	n/a
- Furnace Controls	112(c), 115(a)	n/a	n/a	n/a
Natural Ventilation	121(b)	Yes	Yes	Yes
/inimum Ventilation	121(b)	2060 cfm	18047 cfm	808 cfm
/AV Minimum Position Control	121(c)	Yes	Yes	Yes
emand Control Ventilation	121(c)	No No	No	No
ime Control	121(c), 122(e)	Programmable Switch	Programmable Switch	Programmable Switch
etback and Setup Control	121(c), 122(e) 122(e)	Heating Required	Heating Required	Heating Required
·				
Outdoor Damper Control solation Zones	122(f)	Auto	Auto	Auto n/a
	122(g)	n/a	n/a	n/a
Pipe Insulation	123	500	D 0 0	5.00
uct Insulation	124	R-8.0	R-8.0	R-8.0
RESCRIPTIVE MEASURES				
Calculated Heating Capacity x 1.43 ²	144 (a & b)	n/a	n/a	n/a
roposed Heating Capacity ²	144 (a & b)	401,729 btuh	1,286,627 btuh	448,159 btuh
alculated Sensible Cooling Capacity \times 1.21 2	144 (a & b)	n/a	n/a	n/a
Proposed Sensible Cooling Capacity ²	144 (a & b)	251,076 btuh	644,769 btuh	261,977 btuh
an Control	144 (c)	Variable Speed	Constant Volume	Variable Speed
OP Sensor Location	144 (c)			
Supply Pressure Reset (DDC only)	144 (c)	Yes	Yes	Yes
Simultaneous Heat/Cool	144 (d)	Yes	Yes	Yes
conomizer	144 (e)	Diff. Enth (Integrated)	Diff. Temp (Integrated)	Diff. Temp (Integrated)
leating Air Supply Reset	144 (f)	Constant Temp	Constant Temp	Constant Temp
Cooling Air Supply Reset	144 (f)	OA Reset	OA Reset	OA Reset
uct Sealing for Prescriptive Compliance	144 (k)	No	No	. No
For each central and single zone air systems (or groquired features are documented. If a requirement is Not required for hydronic heating and cooling. Eithe Enter Yes if System is: Constant Volume, Single Zone	up of similar units) not applicable, put " r enter a value her	ofill in the reference to sheet numb N/A" in the column. The or put in reference ot plans and s	per and/or specification section and p	aragraph number where the
see PERF-1 for performance method duct sealing require		may y was it distributions	wast obsiting to toquite	
OTES TO FIELD - For Building De		a Only		langs kapan di karapa ambang kapaban kaban sa manakan akaban pangan osa sa pinang kandapan amban pangan ambang Tanggan pangan pang

PROJECT NAME Canada College					8/26/2008	
SYSTEM NAME AC-6.1				1	floor area 10,570	
FAN POWER CONSUMPTION						
A	В	С	D	E	F	
FAN DESCRIPTION	DESIGN BRAKE HP	EFFICIE MOTOR	NCY DRIVE	NUMBER OF FANS	PEAK WATTS B x E x 746 / (C X I	
Supply Fan	31.830	94.1%	97.0%	1.0		
	Total Adjust	ments				
FILTER PRESSURE ADJUSTMENT EQUATION 144-A	1) TOTAL FA	1) TOTAL FAN SYSTEM POWER (Watts, Sum Column F)				
A) If filter pressure drop is greater than 1 inch W.C. enter	2) SUPPLY (2) SUPPLY DESIGN AIRFLOW (CFM) 3) TOTAL FAN SYSTEM POWER INDEX (Row 1/Row 2)				
filter pressure drop. SPa on line 4 and Total Fan pressure SPf on Line 5.						
B) Calculate Fan Adjustment and enter on Line 6.	4) SPa 5) SPf					
C) Coloulate Adjusted Can Dower Index and enter on line 7						

MECHANICAL SIZING AND FAN POWER

1. TOTAL FAN SYSTEM POWER INDEX or ADJUSTED FAN POWER INDEX must not exceed 0.8 W/cfm for Constant Volume systems or 1.25 W/cfm for VAV systems.

PRESCRIPTIVE MEASURES	T-24 Section	Capacity	Exception	Notes
Electric Resistance Heating	144 (g)			
Heat Rejection System?	144 (h)			
Air Cooled Chiller Limitation ³	144 (i)			

Theat Rejection System	144 (11)				1
Air Cooled Chiller Limitation ³	144 (i)				
Total installed capacity (MBtu/hr) of all electric heat or	n this project exclusi	ve of electric auxiliary heat	for heat pumps. If electric he	eat is used, explain which exception(s) to Section(g)	pply.
2. Are centrifugal fan cooling towers used on this proje	ect? (Enter "Yes" o	r "No") If centrifugal fan coc	oling tower are used, explain v	which exception(s) to Section 144(h) apply.	
3. Total installed capacity (tons) of all water and air coole	ed chillers under this	s permit. If there are more the	nan 100 tons of air-cooled ch	hiller capacity being installed, explain which exception	(s) to Section
4.4.475					

EnergyPro 4.4 by EnergySoft	User Number: 4822	Job Number: 2007-0731	Page:10 of 10

TEM NAME AC-5.2						1,049				
N POWER CONSUMPTION										
TOWER CONCOMIT HOW										
Α		B DESIGN	C	D	E NUMBER	PEAK WATTS				
FAN DESCRIPTION		BRAKE HP	EFFICI MOTOR	DRIVE	OF FANS	B x E x 746 / (C X D				
Supply Fan		22.480	93.0%	97.0%	1.0	18,590				
Exhaust Fan		5.600	89.5%	97.0%	1.0	4,812				

					L					
		Total Adjustn	nents							
.TER PRESSURE ADJUSTMENT EQU 4-A	ATION	1) TOTAL FA	1) TOTAL FAN SYSTEM POWER (Watts, Sum Column F)							
ffilter pressure drop is greater than 1 ir	nch W.C. enter	2) SUPPLY D	2) SUPPLY DESIGN AIRFLOW (CFM)							
	3) TOTAL FA	3) TOTAL FAN SYSTEM POWER INDEX (Row 1/Row 2)								
er pressure drop. SPa on line 4 and Tota f on Line 5.	arr arr procouro									
f on Line 5.	·	4) SPa								
f on Line 5. Calculate Fan Adjustment and enter on	Line 6.	4) SPa 5) SPf								
f on Line 5.	Line 6.	4) SPa 5) SPf 6) Fan Adjus	tment = 1-(SPa		1	4.470				
f on Line 5. Calculate Fan Adjustment and enter on	Line 6.	4) SPa 5) SPf 6) Fan Adjus	tment = 1-(SPa	- 1)/SPf INDEX (Line 3 x	Line 6)	1.170				
f on Line 5. Calculate Fan Adjustment and enter on Calculate Adjusted Fan Power Index ar	Line 6. ad enter on Line 7.	4) SPa 5) SPf 6) Fan Adjus 7) ADJUSTED	tment = 1-(SPa	INDEX (Line 3 x						
f on Line 5. Calculate Fan Adjustment and enter on Calculate Adjusted Fan Power Index ar	Line 6. ad enter on Line 7.	4) SPa 5) SPf 6) Fan Adjus 7) ADJUSTED	tment = 1-(SPa	INDEX (Line 3 x						
Fon Line 5. Calculate Fan Adjustment and enter on Calculate Adjusted Fan Power Index ar OTAL FAN SYSTEM POWER INDEX or ADJUS	Line 6. Id enter on Line 7. STED FAN POWER II	4) SPa 5) SPf 6) Fan Adjus 7) ADJUSTED	tment = 1-(SPa	INDEX (Line 3 x						
f on Line 5. Calculate Fan Adjustment and enter on Calculate Adjusted Fan Power Index ar FOTAL FAN SYSTEM POWER INDEX or ADJUSTEM TEM or SYSTEM TAG	Line 6. Id enter on Line 7. STED FAN POWER II	4) SPa 5) SPf 6) Fan Adjus 7) ADJUSTED	tment = 1-(SPa	INDEX (Line 3 x nt Volume systems or	t 1.25 W/cfm for V					
f on Line 5. Calculate Fan Adjustment and enter on	Line 6. Indicate on Line 7. STED FAN POWER II	4) SPa 5) SPf 6) Fan Adjus 7) ADJUSTED NDEX must not exceed	tment = 1-(SPa DFAN POWER I D.8 W/cfm for Constan	INDEX (Line 3 x nt Volume systems or	t 1.25 W/cfm for V	AV systems.				
f on Line 5. Calculate Fan Adjustment and enter on Calculate Adjusted Fan Power Index ar FOTAL FAN SYSTEM POWER INDEX or ADJUSTEM OF SYSTEM TAG RESCRIPTIVE MEASURES	Line 6. Sted FAN POWER II (S) T-24 Section	4) SPa 5) SPf 6) Fan Adjus 7) ADJUSTED NDEX must not exceed	tment = 1-(SPa DFAN POWER I D.8 W/cfm for Constan	INDEX (Line 3 x nt Volume systems or	t 1.25 W/cfm for V	AV systems.				

Job Number: 2007-0731

project name Canada Coll	ege								-	D/	8/20	6/200	8
BAP ALIABIAA II AMBANDA AMIA	A	4046	. 101			and the superior of the superi			PRE	SCRIPT	TIVE REH	EAT	
MECHANICAL VENTILATIO	<u>-</u>	<u>n 121(</u> EA BAS		occi	PANCY	RASIS			LIMI	VAV MI	(Section	144(d))	***************************************
A	B	C	D	E	F	G	Н	I	J	K	L	М	N
ZONE/SYSTEM	Condition Area (SF)	CFM per Square Foot	Min CFM by Area (B x C)	Number of People	CFM per Person	Min CFM by Occupant (E x F)	REQ'D V.A Max of (D or G)	Design Vent. Air CFM	30% of Design Zone Supply CFM	B x 0.4 CFM/sq. ft.	Max of Columns H, J, K or 300 CFM	Design Min. Ai Setpoint	Transfer Air
7-Waiting, Hall., Off.	655	0.15	98				98	182		262			
8-Nurse Office	120	0.15	18				18	11		48	300		7
9-Evening Nurse Off.	94	0.15	14				14	24		38	300		
10-Therapy Room	150	0.15	22	***			22	31		60	300		
12-DSPS Dir. Office	160	0.15	24				24	15		64	300		9
13-DSPS Faculty Office	105	0.15	16				16	10		42	300		6
14-Testing Room	175	0.38	66				66	53		70	300		13
15-Hallway	1,403	0.15	210				210	53		561	561		157
AC-5.3						Total	1,024	808					
1-Classroom	830	0.38	315	***************************************			315	315		332	332		
2-Classroom	575	0.38	218				218	218		230	300		
4-Multi-Purpose Room	815	0.30	245				245	310		326	326		
5-Multi-Purpose Room	815	1.07	872				872	310		326	872		562
6-Meeting Room	956	0.50	478	***************************************			478	363		382	478		115
7-Lobby	1,177	0.15	177				177	45		471	470		132
10-Office, Storage	324	0.15	49				49	31		130	300		18
11-Meeting Rooms	780	0.50	390				390	296		312	390		94
12-Meeting Room	433	0.50	216				216	165		173	300		52
14,15-Classroom	1,523	0.38	579				579	579		609	609		
16,17-Classm, Vest	942	0.38	358				358	307		377	376		51
13-Corridor	1,400	0.15	210				210	53		560	560		157
AC-6.1						Total	4,107	2,992					
											·		
C Minimum ventilation rate per Sec E Based on fixed seat or the greate H Required Ventilation Air (REQ'D i Must be greater than or equal to J Design fan supply cfm (Fan CFM) K Condition area (ft. sq.) x 04 cfm/ft L Maximum of Columns H, J, K, or 3 M This must be less than or equal to N Transfer air must be provided wh to the difference between the Rec	er of the expecte V.A.) is the large H, or use Transt x 30%; or .sq.; or .sq.; or column L and tere the Require	d number of the verer Air (colu- greater that	entilation ra mn N) to ma at or equal to on Air (colu	ake up the	difference. of Columns reater than	AREA or O H + N. the Design	Minimum /	EY BASIS (c	olumn D or	G).			iter than or
EnergyPro 4.4 by EnergySoft	Use	r Number	: 4822			Job Numbe	er: 2007-0	0731				Page:6 of	f 10

PROJECT NAME Canada College				DATE 8/26/2008
SYSTEM FEATURES	r			
ITEM OD SVSTEM TAC/S)		AC-6.1	SYSTEMS, Central or Sing	gle Zone
ITEM OR SYSTEM TAG(S) Number of Systems		AC-0.1		
MANDATORY MEASURES	T-24 Section		ference on Plans or Specif	Fication ¹
Heating Equipment Efficiency	112(a)	n/a		
Cooling Equipment Efficiency	112(a)	n/a		
Heat Pump Thermostat	112(b)	n/a		
Furnace Controls	112(c), 115(a)	n/a		
Natural Ventilation	121(b)	Yes		
Minimum Ventilation	121(b)	2992 cfm		
VAV Minimum Position Control	121(c)	Yes		
Demand Control Ventilation	121(c)	No		****
Time Control Setback and Setup Control	121(c), 122(e) 122(e)	Programmable Switch Heating Required		
·				
Outdoor Damper Control Isolation Zones	122(f)	Auto		
	122(g)	n/a		
Pipe Insulation Duct Insulation	123	R-8.0		
PRESCRIPTIVE MEASURES	г		T	
Calculated Heating Capacity x 1.43 ²	144 (a & b)	n/a		
Proposed Heating Capacity ²	144 (a & b)	780,289 btuh		
Calculated Sensible Cooling Capacity x 1.21 ²	144 (a & b)	n/a		
Proposed Sensible Cooling Capacity ²	144 (a & b)	666,111 btuh		
Fan Control	144 (c)	Variable Speed		
DP Sensor Location	144 (c)			
Supply Pressure Reset (DDC only)	144 (c)	Yes		
Simultaneous Heat/Cool	144 (d)	Yes		
Economizer	144 (e)	Diff. Enth (Integrated)		
Heating Air Supply Reset	144 (f)	Constant Temp		
Cooling Air Supply Reset	144 (f)	OA Reset	***************************************	
Duct Sealing for Prescriptive Compliance 1: For each central and single zone air systems (or grequired features are documented. If a requirement is			ber and/or specification section ar	d paragraph number where the
required leatures are documented. If a requirement is 2: Not required for hydronic heating and cooling. Eith			specifications per footpote 1	
3: Enter Yes if System is: Constant Volume, Single Zor	ne; Serves < 5,000		•	uired for Prescriptive Compliance,
see PERF-1 for performance method duct sealing requ NOTES TO FIELD - For Building De				



architecture planning interiors

Bunton Clifford Associates, Inc. 210 Hammond Ave. Fremont, California 94539 [T] 510.445.1000 [F] 510.445.1005 www.BCAincOnline.com

PROJECT 2007-0731	
CONTACT Omar Hawit	
3	INTERFACE
	E ENGINEERING
/	
717 Market Street	
Suite 500 San Francisco, CA 94103	
TEL 415.489.7240	
FAX 415.489.7289	
www.interfaceengineering.com	m
3	
ARCHITECT	ENGINEER
SED ARCH	PROFESS/ONAL
CURTIS BUT	1 //() // 1 .//2 (\\
	186 78 93
No. C018659 ★ Ren.: 09/30/09	S 19 No. 030802 No. 030802
(Exp. 12-31-2009
	CECHICA
STATE OF CALIFORNIA	CHANICART
OF CALITY	OF CALIFORNIA

1. This sheet is part of a set and is not to be used alone. 2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicates drawings have been released for construction. 3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden. 4. Copyright Bunton Clifford Associates, 2007

	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
	REMARKS	DATE
<u> </u>		
<u>^2</u> .		
<u> </u>		
4		
<u></u> 5		
<u>6</u> -		
<i>∕</i> } -		
<u>/8</u> -		
<u> </u>		
<u> </u>		
	\$\frac{4}{5} = \frac{6}{7} = \frac{7}{2} = \	<u>↑</u>

S O DSA PLAN CHECK O DSA BACK CHECK BIDDING (BID #86593)

STE	RUCTION	_
	FILE NO. 41-C1	
	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT	
	01- 110074	
	AC M FLS SS SS DATE MAR 1 9 2009	-

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community
College District

DSA BACK-CHECK

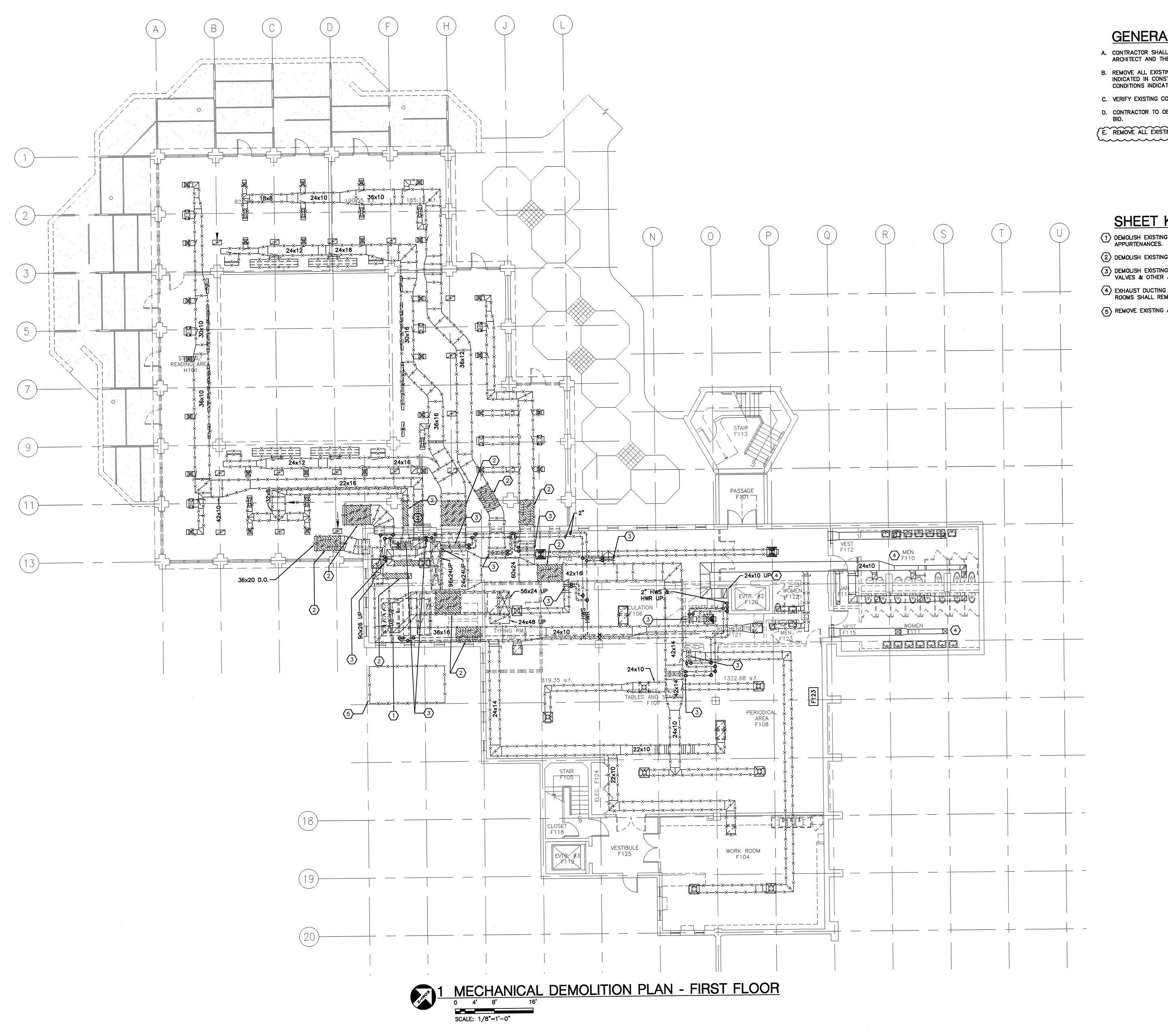
CAÑADA COLLEGE 4200 Farm Hill Boulevard Redwood City, CA 94061

TITLE 24 COMPLIANCE FORMS

Drawing Number AS NOTED Project Number

Scale

07013





- A. CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK WITH THE ARCHITECT AND THE COLLEGE PRIOR TO COMMENCEMENT OF WORK.
- B. REMOVE ALL EXISTING MATERIALS CONFLICTING WITH REMODEL WORK INDICATED IN CONSTRUCTION DOCUMENTS AND SUBJECT TO THE CONDITIONS INDICATED.
- C. VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING WITH THE WORK.
- D. CONTRACTOR TO OBTAIN COPY OF EXISTING RECORD DRAWINGS PRIOR TO BID.

E. REMOVE ALL EXISTING THERMOSTATS AND WIRING. Y/www.ww/Y

SHEET KEY NOTES

- DEMOLISH EXISTING AIR HANDLING UNIT AND REMOVE ALL ASSOCIATED
- $\langle 2 \rangle$ DEMOLISH EXISTING SOUND ATTENUATOR.
- DEMOLISH EXISTING HEATING COIL, HEATING HOT WATER PIPING, VALVES & OTHER APPURTENANCES.
- EXHAUST DUCTING AND TRANSFER AIR DUCTING SERVING THE TOILET ROOMS SHALL REMAIN. DEMOLISH EXISTING DIFFUSERS.
- (5) REMOVE EXISTING AIR COOLED CHILLER.



architecture planning interiors

Bunton Clifford Associates, Inc. 210 Hammond Ave. Fremont, California 94539 [T] 510.445.1000 [F] 510.445.1005 www.BCAincOnline.com

PROJECT 2007-0731 CONTACT Omar Hawit	INTERFA NG
717 Market Street Suite 500 San Francisco, CA 94103 TEL 415.489.7240 FAX 415.489.7289 www.interfaceengineering.co	m
ARCHITEGT	ENGINEER
No. C018659 Ren.: 09/30/II	PROFESSIONAL PROFE
This sheet is part of a set and	is not to be used alone.

	REMARKS	 DA	TE	
ADDENDL	JM NO. 1	09/1	8/09	
<u>^</u>				
70 V W W				
REVISION HISTORY		·		
[™]				
/8\				
<u> </u>				

2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicates drawings have been released for construction.

3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.

4. Copyright Bunton Clifford Associates, 2007

S	DSA PLA	AN CHECK 0	8/29/08
STAT			1/22/09
DRAWING STATUS			9/18/09
RAW		RUCTION	<u> </u>
Ω	CONSTR	RUCTION	
		FILE NO. 41-C1	1
		IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT	
		01- 110074	

BUILDINGS 5 & 6 RENOVATIONS

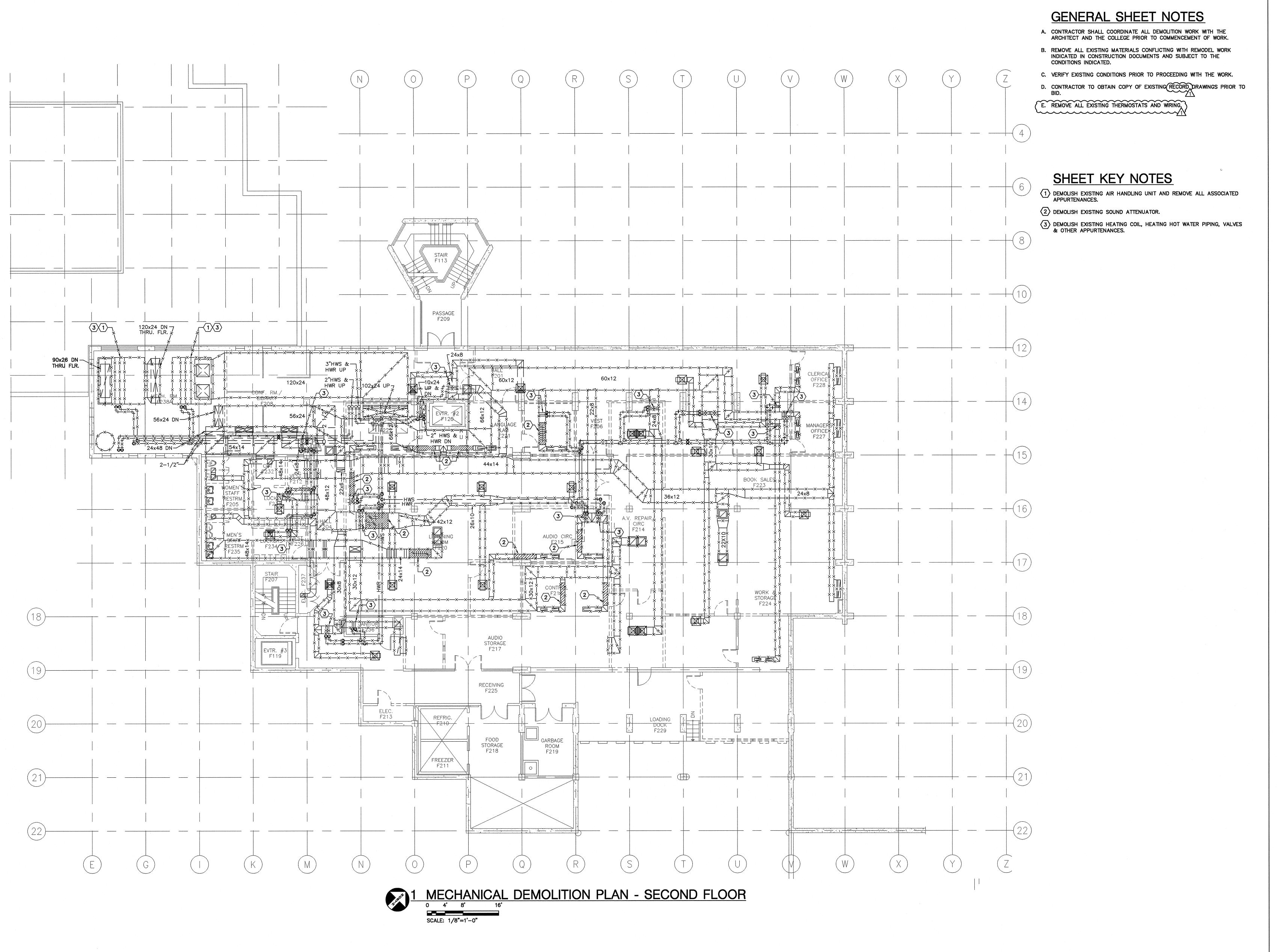
San Mateo County Community
College District

BID ADDENDA

CAÑADA COLLEGE 4200 Farm Hill Boulevard Redwood City, CA 94061

MECHANICAL DEMOLITION PLAN FIRST FLOOR

MD1.1



FILE: 0731M12D.DWG - MD12 | EDIT: 9/16/2009 5:52 PM BY OMARH | PLOT: 9/17/2009 7:19 PM BY OMAR HAWIT



architecture p lanning int eriors

Bunton Clifford Associates, Inc.
210 Hammond Ave.
Fremont, California 94539
[T] 510.445.1000
[F] 510.445.1005
www.BCAincOnline.com

PROJECT	2007-0731					
CONTACT	Omar Hawit					
		}	INT ENG			
TEL 415 FAX 415	isco, CA 94103 5.489.7240	m				
ARC	HITECT		E	NGIN	EER	
	ARO C018659	A		OFES:	SIONAL	

1. This sheet is part of a set and is not to be used alone.
2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicates drawings have been released for construction.
3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
4. Copyright Bunton Clifford Associates, 2007

REMARKS	DATE
ADDENDUM NO. 1	09/18/09
<u>^</u>	
Name	
NO HIS	
<u>~</u>	
<u> </u>	
<u> </u>	
7101	
	DATE

_ `	DATE
DSA PLAN CHECK	08/29/08
DSA PLAN CHECK DSA BACK CHECK	01/22/09
BIDDING (BID #86593) CONSTRUCTION	09/18/09
CONSTRUCTION	

FILE NO. 41—C1

DIENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

O1— 110074

AC_____FLS____SS___

DATE_____

BUILDINGS 5 & 6 RENOVATIONS

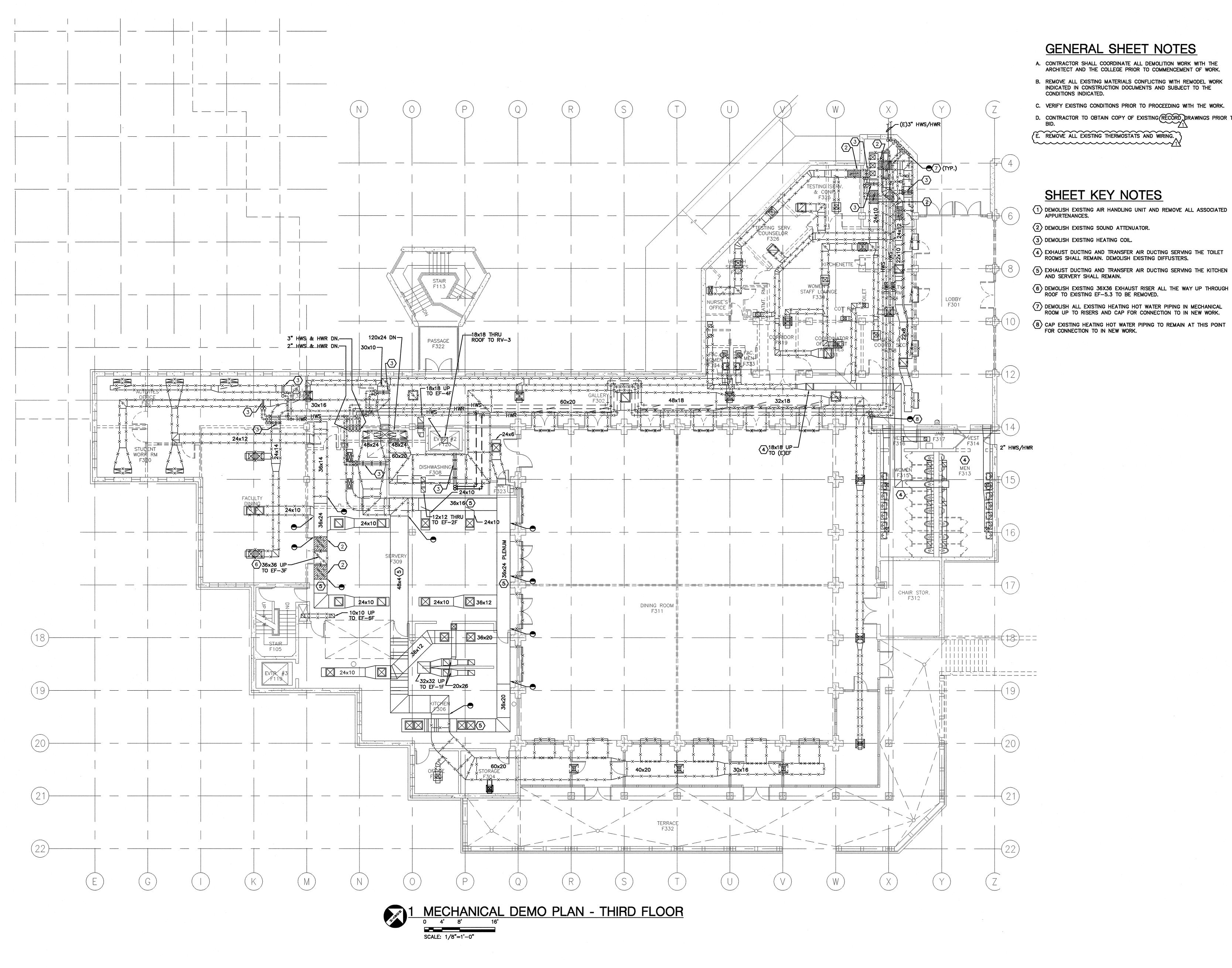
San Mateo County Community
College District

BID ADDENDA

CAÑADA COLLEGE 4200 Farm Hill Boulevard Redwood City, CA 94061

MECHANICAL
DEMOLITION PLAN
SECOND FLOOR

Date 08/29/08	Drawing Number
Scale	
AS NOTED	MD1
Project Number	





- D. CONTRACTOR TO OBTAIN COPY OF EXISTING (RECORD) DRAWINGS PRIOR TO



architecture planning interiors

Bunton Clifford Associates, Inc. 210 Hammond Ave. Fremont, California 94539 [T] 510.445.1000 [F] 510.445.1005 www.BCAincOnline.com

PROJECT 2007-0731

CONTACT Omar Hawit		
	INTERFACE ENGINEERING	
717 Market Street Suite 500 San Francisco, CA 94103 TEL 415.489.7240 FAX 415.489.7289		
www.interfaceengineering.co	m ENGINEER	
★ No: C018659 Ren.: 09/30/	PROFESS/ONAL PR	7

1. This sheet is part of a set and is not to be used alone. 2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicates drawings have been released for construction. 3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden. 4. Copyright Bunton Clifford Associates, 2007

	REMARKS	DATE
	ADDENDUM NO. 1	09/18/09
<u> </u>	***************************************	
≥ 🔬		
REVISION HISTORY		
REWS		
\[\frac{7}{\lambda}		
	7	
		DATE

LUSAEL	RIV CHECK	00/20/00
DRAWING STATI	CK CHECK	01/22/09
BIDDING	G (BID #86593)	09/18/09
ME O CONSTR	RUCTION	
	FILE NO. 41-C1	
	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT	
	01- 110074	
	ACFLSSS	_

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community
College District

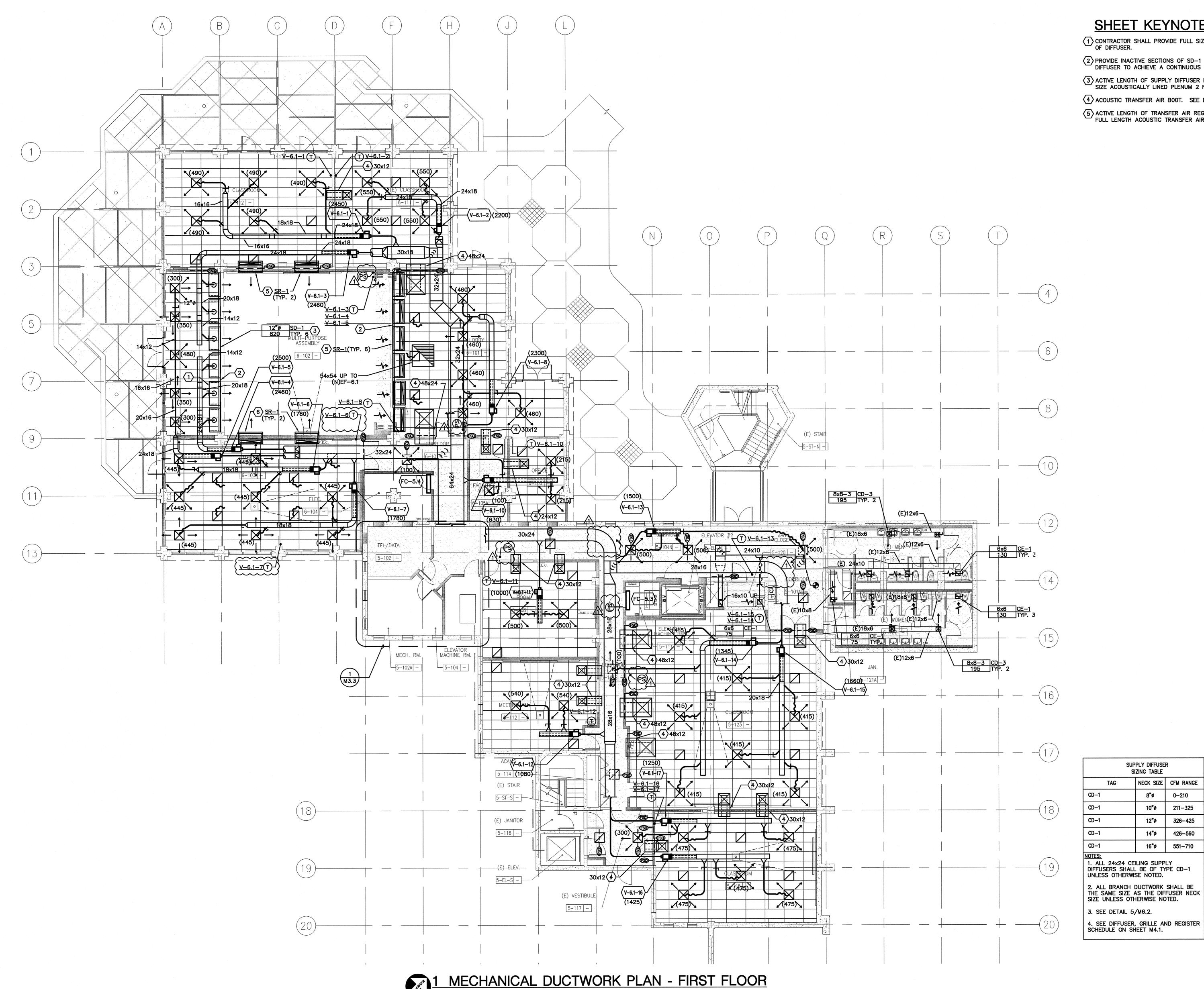
BID ADDENDA

CAÑADA COLLEGE 4200 Farm Hill Boulevard

Redwood City, CA 94061 MECHANICAL

DEMOLITION PLAN THIRD FLOOR

MD1.3 **Project Number**



SCALE: 1/8"=1'-0"

SHEET KEYNOTES

- CONTRACTOR SHALL PROVIDE FULL SIZE PLENUM, 24" DEEP FROM FACE OF DIFFUSER.
- 2 PROVIDE INACTIVE SECTIONS OF SD-1 BETWEEN ACTIVE SECTIONS OF DIFFUSER TO ACHIEVE A CONTINUOUS LENGTH.
- 3 ACTIVE LENGTH OF SUPPLY DIFFUSER IS 5'-0" LONG. PROVIDE FULL SIZE ACOUSTICALLY LINED PLENUM 2 FEET DEEP FROM DIFFUSER FACE.
- 4 ACOUSTIC TRANSFER AIR BOOT. SEE DETAIL 8/M601.
- 5 ACTIVE LENGTH OF TRANSFER AIR REGISTER IS 5'-0" LONG. PROVIDE FULL LENGTH ACOUSTIC TRANSFER AIR BOOT. SEE DETAIL 8/M601.

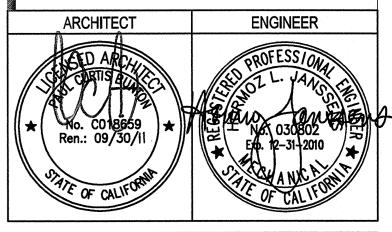
architecture planning interiors

> Bunton Clifford Associates, Inc. 210 Hammond Ave. Fremont, California 94539 [T] 510.445.1000 [F] 510.445.1005 www.BCAincOnline.com

BCA

PROJECT 2007-0731 CONTACT Omar Hawit INTERFACE ENGINEERING 717 Market Street Suite 500 San Francisco, CA 94103 TEL 415.489.7240 FAX 415.489.7289

www.interfaceengineering.com



1. This sheet is part of a set and is not to be used alone. 2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicates drawings have been released for construction. 3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden. 4. Copyright Bunton Clifford Associates, 2007

L					 		
		REMARKS		***************************************	 DATE	:	
	<u> ADI</u>	DENDUM NO. 1			 09/18/0	9	
	<u> </u>						
TORY	<u>⅓</u> — ∧		-		 		
SHN	<u>^</u> 4\						
REVISION HISTORY	<u>~</u> _						
22	<u> </u>						
	<u> </u>						
	❷ — ♠						
- 1	<u> </u>						

	_	DATE
2 5	DSA PLAN CHECK	08/29/08
STA	DSA BACK CHECK	01/22/09
DRAWING STATUS	BIDDING (BID #86593)	09/18/09
DRA	OCONSTRUCTION	

	FILE NO.	41-C1	
DIV.	IDENTIFICATION OF THE STA		ст
-	01- 1	10074	
AC	FLS	ss	
DAT	TE		

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community
College District

RETURN/EXHAUST REGISTER SIZING TABLE

12**"**ø

1. ALL CEILING 24X24 RETURN/EXHAUST REGISTERS SHALL BE OF TYPE CR-1 UNLESS OTHERWISE NOTED.

2. ALL BRANCH DUCTWORK SHALL BE THE SAME SIZE AS THE REGISTER NECK SIZE UNLESS OTHERWISE NOTED.

4. SEE DIFFUSER, GRILLE AND REGISTER SCHEDULE ON SHEET M4.1.

3. SEE DETAIL 5/M6.2.

NECK SIZE CFM RANGE

176-275

275-400

400-540

16**"**ø 540-700

SUPPLY DIFFUSER SIZING TABLE

10**"**ø

12**"**ø

14**"**ø

NECK SIZE CFM RANGE

16*****ø 551-710

0-210

211-325

326-425

426-560

BID ADDENDA

CAÑADA COLLEGE 4200 Farm Hill Boulevard Redwood City, CA 94061

MECHANICAL DUCTWORK PLAN FIRST FLOOR

08/29/08 **Project Number**

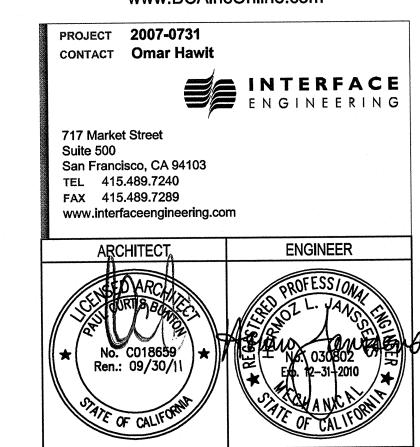
SHEET KEYNOTES

(1) ACOUSTIC TRANSFER AIR BOOT. SEE DETAIL 8/M601.



architecture planning interiors

Bunton Clifford Associates, Inc.
210 Hammond Ave.
Fremont, California 94539
[T] 510.445.1000
[F] 510.445.1005
www.BCAincOnline.com



This sheet is part of a set and is not to be used alone.
 This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicates drawings have been released for construction.
 These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
 Copyright Bunton Clifford Associates, 2007

	REMARKS	DATE
	ADDENDUM NO. 1	09/18/09
<u> </u>		
> 🔏		
A Sign		
REVISION HISTORY		

8		
<u> </u>		

	DATE
S DSA PLAN CHECK	08/29/08
DSA PLAN CHECK DSA BACK CHECK BIDDING (BID #86593) CONSTRUCTION	01/22/09
BIDDING (BID #86593)	09/18/09
CONSTRUCTION	

FILE NO. 41—C1

IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

O1— 110074

AC_____FLS____SS____

DATE_____

BUILDINGS 5 & 6 RENOVATIONS

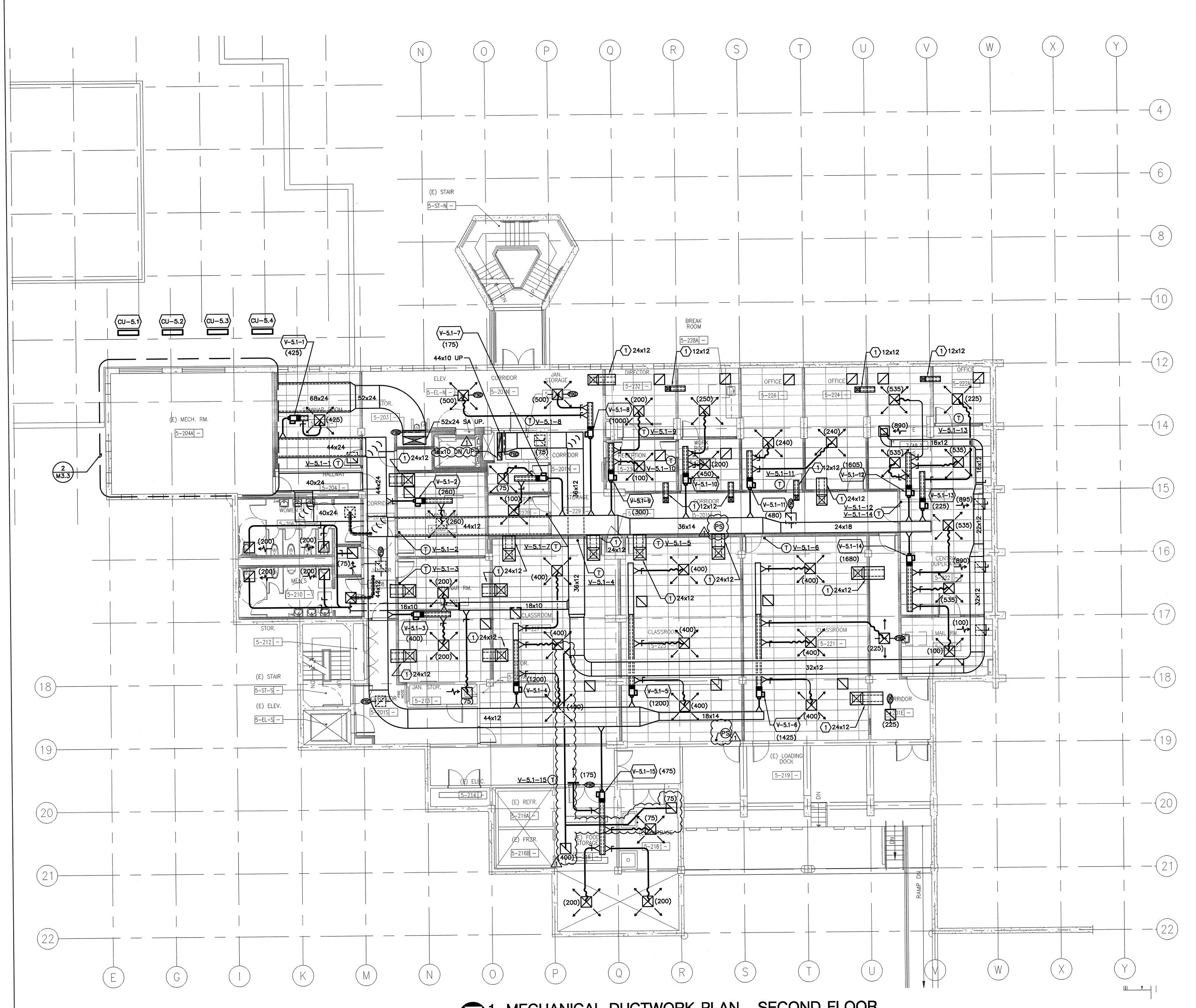
San Mateo County Community College District

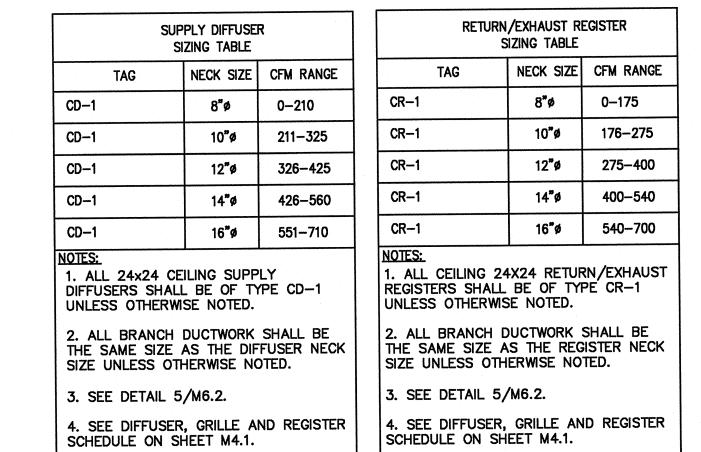
BID ADDENDA

CAÑADA COLLEGE 4200 Farm Hill Boulevard Redwood City, CA 94061

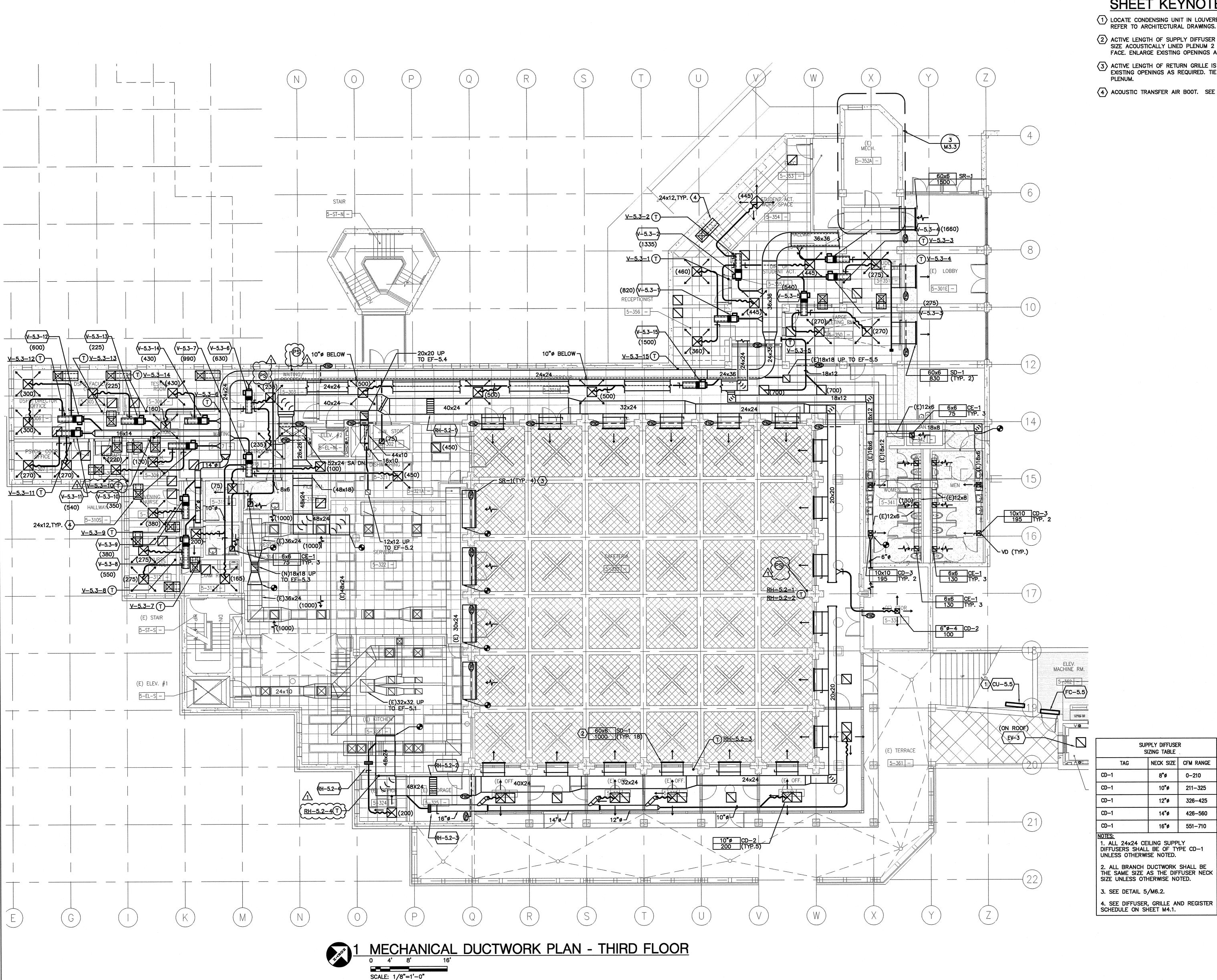
MECHANICAL
DUCTWORK PLAN
SECOND FLOOR

Date 08/29/08	Drawing Number
Scale AS NOTED	- M2.2d
Project Number 07013	





SCALE: 1/8"=1'-0"



FILE: 8731M23B:BWG - M2:3B | EBIT: 9/18/2889 7:89 PM BY 8MARH | PEST: 9/17/2889 7:22 PM BY 8MAR HAW

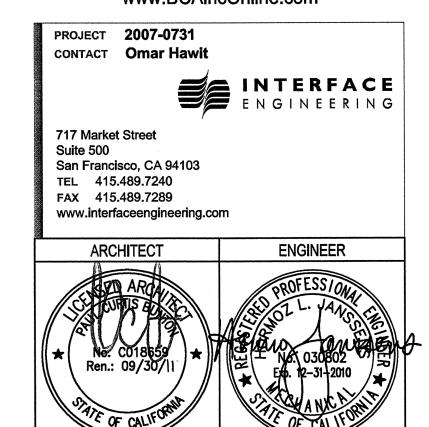
SHEET KEYNOTES

- LOCATE CONDENSING UNIT IN LOUVERED ROOM BENEATH STAIRWELL. REFER TO ARCHITECTURAL DRAWNGS.
- ACTIVE LENGTH OF SUPPLY DIFFUSER IS 5'-0" LONG. PROVIDE FULL SIZE ACOUSTICALLY LINED PLENUM 2 FEET DEEP FROM DIFFUSER FACE. ENLARGE EXISTING OPENINGS AS REQUIRED.
- ACTIVE LENGTH OF RETURN GRILLE IS 8'-0" LONG. ENLARGE EXISTING OPENINGS AS REQUIRED. TIE INTO EXISTING TRANSFER AIR
- 4 ACOUSTIC TRANSFER AIR BOOT. SEE DETAIL 8/M601.



architecture planning interiors

Bunton Clifford Associates, Inc. 210 Hammond Ave. Fremont, California 94539 [T] 510.445.1000 [F] 510.445.1005 www.BCAincOnline.com



1. This sheet is part of a set and is not to be used alone. 2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicates drawings have been released for construction. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden. 4. Copyright Bunton Clifford Associates, 2007

REMARKS	DATE
ADDENDUM NO. 1	09/18/09
<u> </u>	
$\overline{\wedge}$	
REVISION HISTORY	
SH N	
[₩]	
<u></u>	
<u> </u>	
<u></u>	
	DATE
S DSA PLAN CHECK	08/29/08

BIDDING_(BID #86593° E O CONSTRUCTION

FILE NO. 41-C1 IDENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT 01- 110074

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community
College District

RETURN/EXHAUST REGISTER SIZING TABLE

8**"**ø

1. ALL CEILING 24X24 RETURN/EXHAUST REGISTERS SHALL BE OF TYPE CR-1 UNLESS OTHERWISE NOTED.

4. SEE DIFFUSER, GRILLE AND REGISTER SCHEDULE ON SHEET M4.1.

0-210

326-425

426-560

10"ø 211-325

16"ø 551-710

8**"**ø

12**"**ø

14"ø

NECK SIZE CFM RANGE

10"ø 176-275

12"ø 275-400

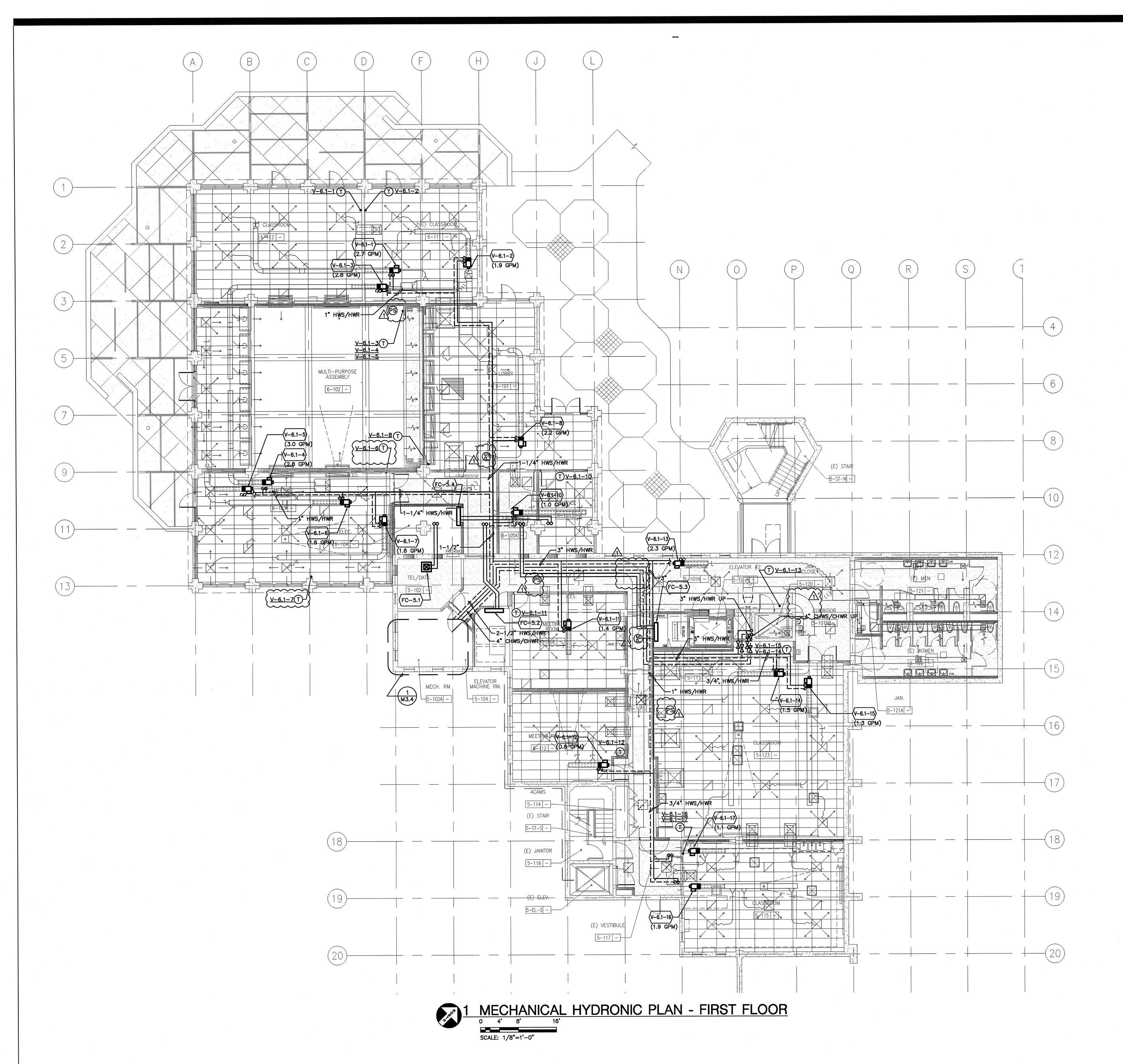
14"ø 400-540

0-175

BID ADDENDA

CAÑADA COLLEGE 4200 Farm Hill Boulevard Redwood City, CA 94061

MECHANICAL DUCTWORK PLAN THIRD FLOOR



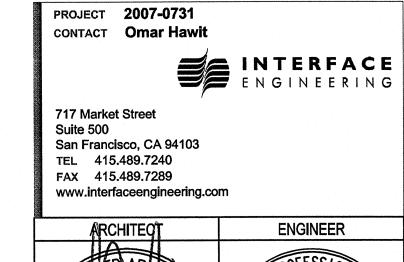
GENERAL SHEET NOTES

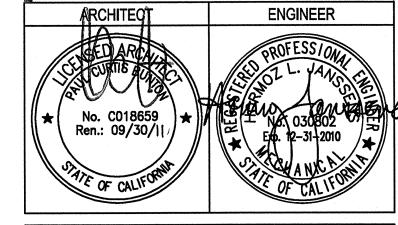
A. FOR VAV PIPING AND VALVE ARRANGEMENT, SEE DETAIL 3 ON SHEET



architecture p la n n i n g i n t e r i o r s

Bunton Clifford Associates, Inc.
210 Hammond Ave.
Fremont, California 94539
[T] 510.445.1000
[F] 510.445.1005
www.BCAincOnline.com





This sheet is part of a set and is not to be used alone.
 This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicates drawings have been released for construction.
 These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
 Copyright Bunton Clifford Associates, 2007

	REMARKS		DATE
AD AD	DENDUM NO. 1		09/18/09
≥ 4 -			
REVISION HISTORY			
N		· · · · · · · · · · · · · · · · · · ·	
~ <u>A</u> _			
<u> </u>			
🐴 —			
<u> </u>			· · · · · · · · · · · · · · · · · · ·

		DATE
DSA PLAN CHECK	(08/29/08
DSA PLAN CHECK DSA BACK CHECK BIDDING (BID #8) CONSTRUCTION	(01/22/09
BIDDING (BID #8	6593)	09/18/09
E O CONSTRUCTION		
100	LE NO. 41—C1 DENTIFICATION STAMP OF THE STATE ARCHITECT	1
	01- 110074	
AC	FLSSS	_

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

BID ADDENDA

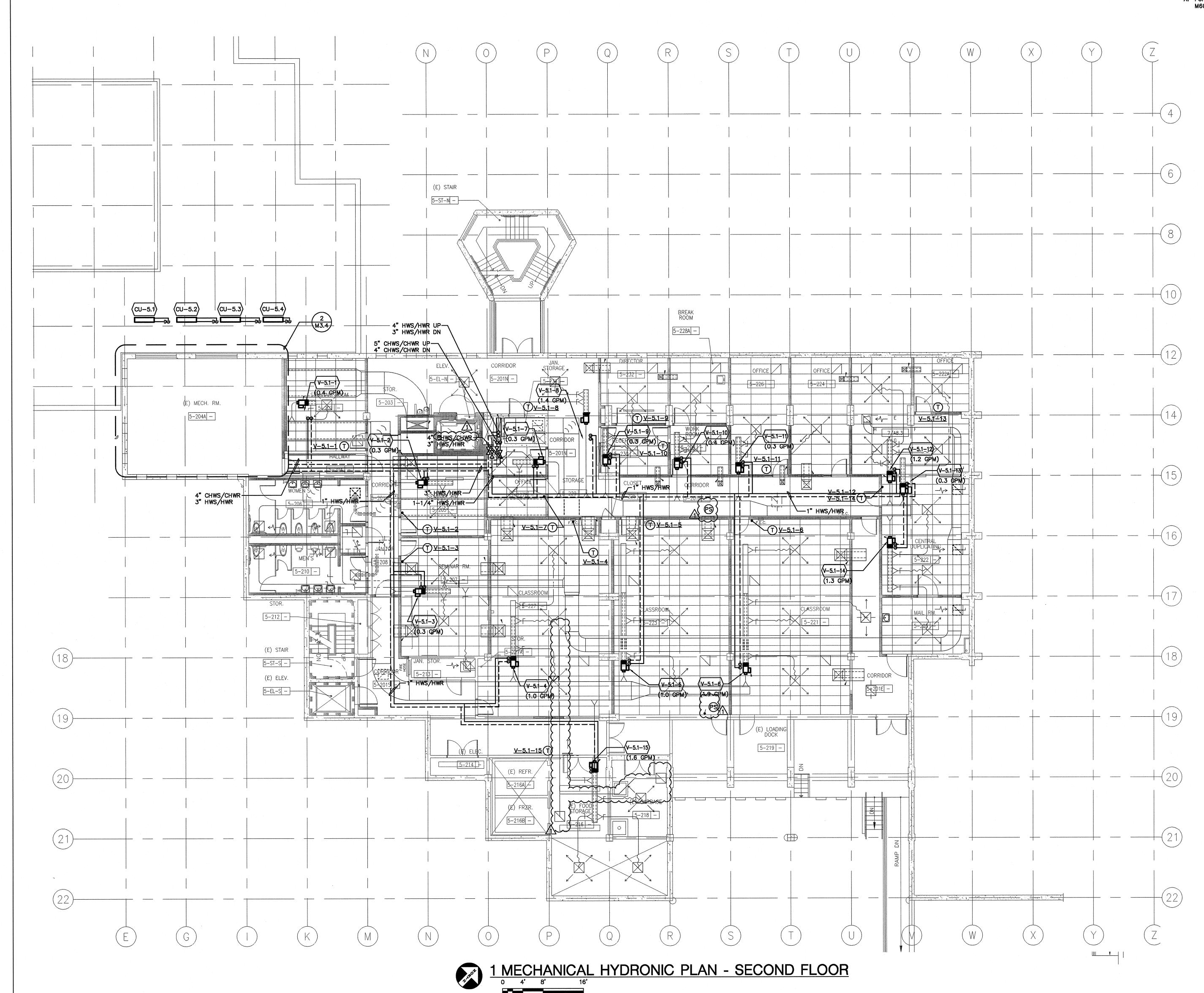
CAÑADA COLLEGE 4200 Farm Hill Boulevard Redwood City, CA 94061

MECHANICAL

HYDRONIC PLAN FIRST FLOOR

Date
08/29/08
Scale
AS NOTED
Project Number

GENERAL SHEET NOTES A. FOR VAV PIPING AND VALVE ARRANGEMENT, SEE DETAIL 3 ON SHEET



SCALE: 1/8"=1'-0"

FILE: 0731M22H.DWG - M2.2H | EDIT: 4/22/2009 3:20 PM BY OMARH | PLOT: 9/17/2009 7:21 PM BY OMAR HAWIT



architecture p lanning i nt eriors

Bunton Clifford Associates, Inc. 210 Hammond Ave. Fremont, California 94539 [T] 510.445.1000 [F] 510.445.1005 www.BCAincOnline.com

PROJECT 2007-073	
CONTACT Omar Ha	wit
•	INTERFACE ENGINEERING
717 Market Street	
Suite 500	
San Francisco, CA 9410	03
TEL 415.489.7240	
FAX 415.489.7289	
www.interfaceengineeri	ng.com
ARCHITECT	ENGINEER
AROLLIN	PROFESS/ON
CONTOURS	L. VAA
	HARRY JONES
★ No. C018659	★ /
Ren.: 09/30/11/	Exp. 12-31+2010
A_{ν} I_{ν} I_{ν}	// / / // / / // / / // / / / / / / /
The contract of the contract o	A NU CON
OF CALIFORNIA	OF TALLY OF

This sheet is part of a set and is not to be used alone.
 This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicates drawings have been released for construction.
 These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
 Copyright Bunton Clifford Associates, 2007

		REMARKS	-	DATE	
	Λ	ADDENDUM NO. 1		09/18/09	
·	<u> </u>				
	> △				
	STOR.				
	NHIS A				
	REVISION HISTORY				
	F V				
	<u> </u>				
	<u> </u>				
	<u>ديم</u>				
				DATE	
	<u>S</u>			00/00/00	

12 DSAPL	AN CHECK	08/29/08
DSA BA	CK CHECK	01/22/09
BIDDING	G (BID #86593)	09/18/09
1 × 🔿	RUCTION	-
	FILE NO. 41-C1	
	IDENTIFICATION STAMP DIV. OF THE STATE ARCHITECT	
	01- 110074	
	ACFLSSS	
·	DATE	

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

BID ADDENDA

CAÑADA COLLEGE 4200 Farm Hill Boulevard

4200 Farm Hill Boulevard Redwood City, CA 94061 MECHANICAL

HYDRONIC PLAN SECOND FLOOR

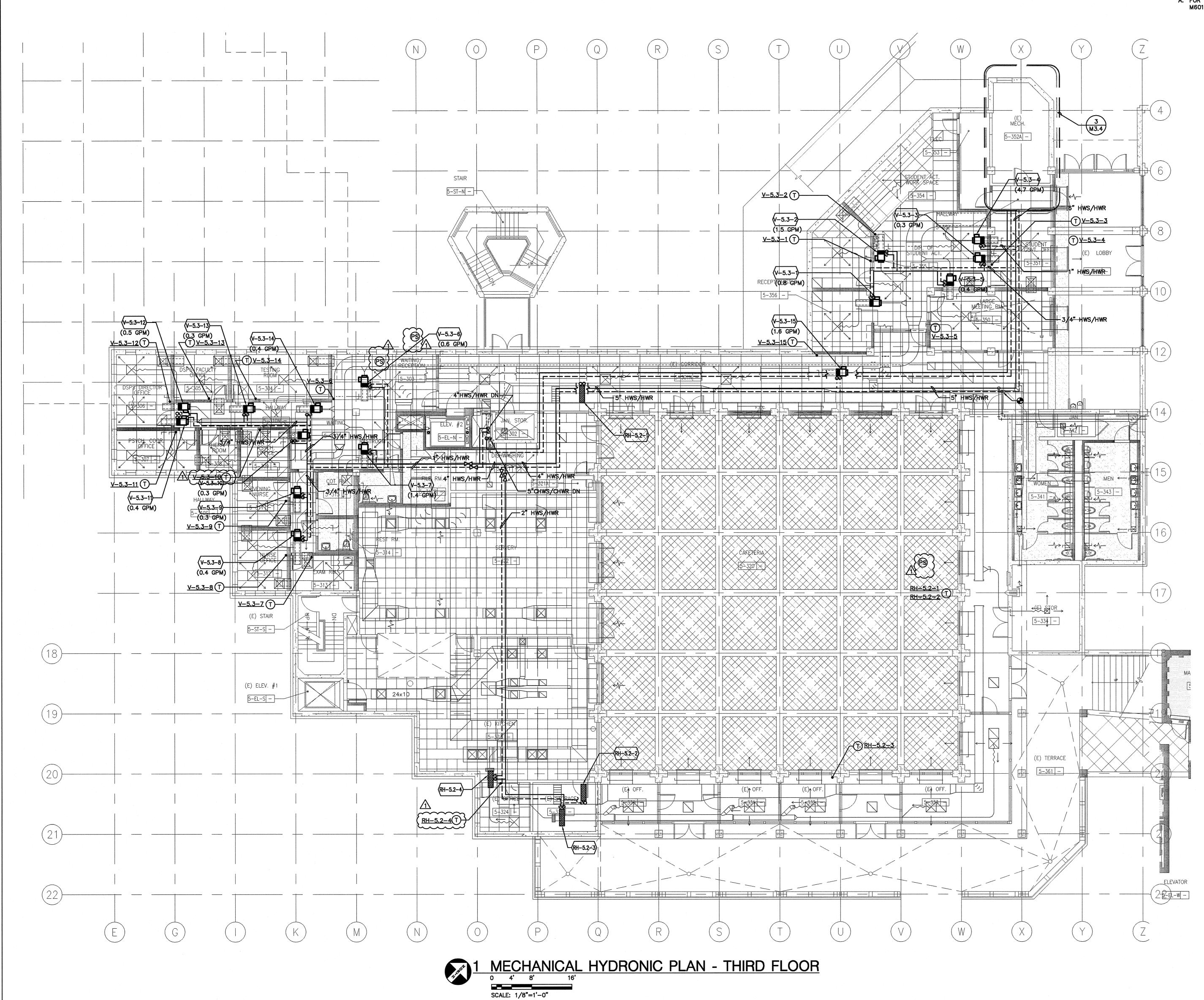
Date
08/29/08

Scale
AS NOTED

Drawing Number

Drawing Number

GENERAL SHEET NOTES A. FOR VAV PIPING AND VALVE ARRANGEMENT, SEE DETAIL 3 ON SHEET





architecture planning interiors

Bunton Clifford Associates, Inc. 210 Hammond Ave. Fremont, California 94539 [T] 510.445.1000 [F] 510.445.1005 www.BCAincOnline.com

PROJECT	2007-0731		
CONTACT	Omar Hawit		
		= INTEREAC	` =
		INTERFAC ENGINEERIN	G
717 Marke Suite 500	t Street		
	sco, CA 94103		
TEL 415	•		
FAX 415	.489.7289		
www.interf	aceengineering.co	m ·	
ARC	HITECTA	ENGINEER	
#	A		
CNST	ARCAD N	PROFESS/ONA	
(C) (Q)	RISBORG	1 /60/2 L. YANG	
A ST			5 \\
II No	C018659 🖈	Marianox tanva	例
Ren.:	09/30/11	(上) No. 030802 (7)	罗
		E € 6. 12–31 2010	*//
1/2/	ALL .	Sing Sun Paris	
ALE O	F CALIFORNIA	SE OF ALL FORM	/
		OF CALL	
i			

1. This sheet is part of a set and is not to be used alone.

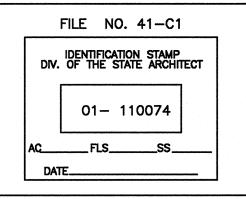
3. These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.

4. Copyright Bunton Clifford Associates, 2007

2. This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicates drawings have been released for construction.

REMARKS	DATE
ADDENDUM NO. 1	09/18/09
<u> </u>	
≥ 🛣	
REVISION HISTORY	
N	
NSIN 6	
₩	
1	
<u> </u>	
$\overline{\Delta}$	

		שא
DRAWING STATUS	DSA PLAN CHECK	08/29/
	DSA BACK CHECK	01/22/
	BIDDING (BID #86593)	09/18/
8	O CONSTRUCTION	



BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

BID ADDENDA

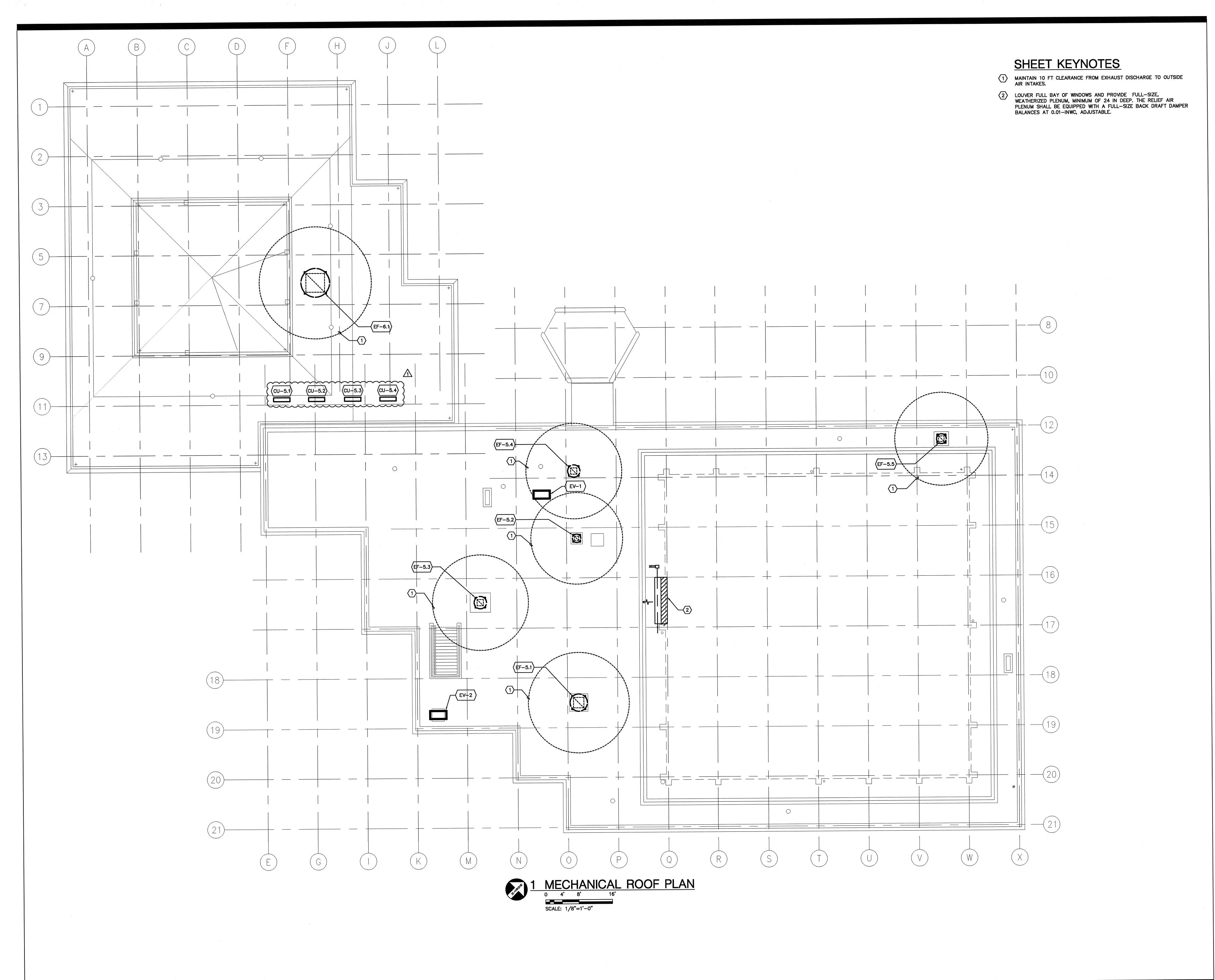
CAÑADA COLLEGE

4200 Farm Hill Boulevard Redwood City, CA 94061

MECHANICAL HYDRONIC PLAN THIRD FLOOR

Drawing Number

Project Number





architecture p lanning i nt eriors

Bunton Clifford Associates, Inc. 210 Hammond Ave.

Fremont, California 94539
[T] 510.445.1000
[F] 510.445.1005
www.BCAincOnline.com

PROJECT 2007-0731

THE PROPERTY OF THE PROPERTY O

No. C018659
Ren.: 09/30/11

ANC CALIFORNI

OF CALIFORNI

O

This sheet is part of a set and is not to be used alone.
 This sheet is not to be used for construction unless the architect's stamp and signature appear on the drawings and the status box indicates drawings have been released for construction.
 These plans and prints thereof, as instruments of service, are owned by the architect and are for use on this project only. Reproduction and/or distribution without the prior written consent of the architect is forbidden.
 Copyright Bunton Clifford Associates, 2007

REMARKS DATE

ADDENDUM NO. 1

DSA PLAN CHECK

DSA BACK CHECK

DSA BACK CHECK

DSA BACK CHECK

DSA BACK CHECK

D9/18/09

BIDDING (BID #86593)

CONSTRUCTION

FILE NO. 41—C1

DIENTIFICATION STAMP
DIV. OF THE STATE ARCHITECT

O1— 110074

BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

BID ADDENDA

CAÑADA COLLEGE 4200 Farm Hill Boulevard Redwood City, CA 94061

MECHANICAL ROOF PLAN

Drawing Drawin Drawing Drawing Drawing Drawing Drawing Drawing Drawing Drawing

Scale
AS NOTED
Project Number