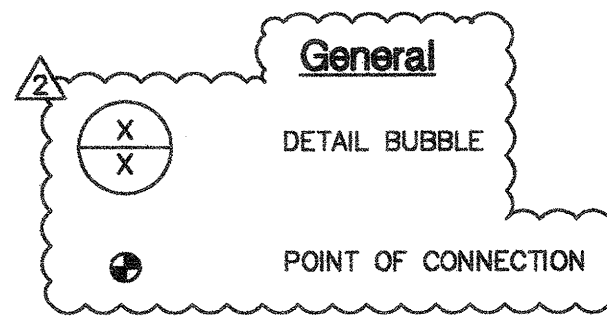
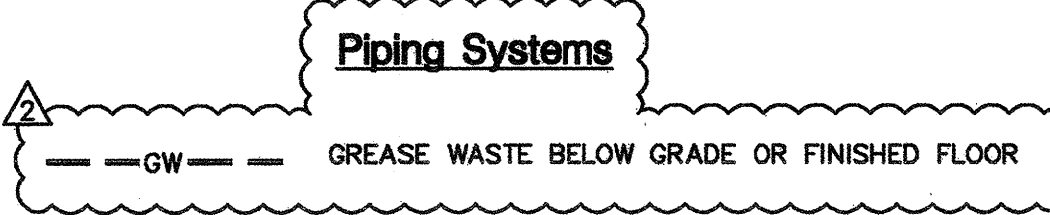


## PLUMBING SYMBOL LIST

\* This is a standard list and not all symbols and abbreviations may be used.

VALVES		ROOF DRAIN		GAL GALLONS	
	VALVE, GENERAL		ROOF DRAIN	GPH	GALLONS PER HOUR
	VALVE		VENT THROUGH ROOF	GPM	GALLONS PER MINUTE
	GATE VALVE	<b>PIPING SYSTEMS</b>			
	PRESSURE REDUCING VALVE		COLD WATER PIPING	HD	HEAD
	MOTORIZED, 2-WAY VALVE		HOT WATER PIPING	HP	HORSE POWER
	CHECK VALVE		HOT WATER RETURN PIPING	HTR	HEATER
	QUARTER TURN VALVE		GAS PIPING		HOT WATER
	GLOBE VALVE		CONDENSATE PIPING		HOT WATER RETURN
	BALANCING VALVE		ACID RESISTANT PIPING	ID	INSIDE DIAMETER
	MOTORIZED, 3-WAY VALVE		FIRE PROTECTION PIPING	IE	INVERT ELEVATION
<b>FITTINGS</b>			COMPRESSED AIR PIPING	IN	INCHES
	PIPE RISE		WASTE PIPING BELOW GRADE OR FINISHED FLOOR	L	LAVATORY
	PIPE DROP		WASTE PIPING ABOVE GRADE OR FINISHED FLOOR	LBS.	POUNDS
	TEE UP ON PIPE		STORM DRAIN PIPING ABOVE GRADE OR FINISHED FLOOR	MBH	THOUSAND BTU'S PER HOUR
	TEE DOWN ON PIPE		STORM DRAIN PIPING BELOW GRADE OR FINISHED FLOOR	MIN	MINIMUM
	CONTINUATION		WASTE VENT PIPING	(N)	NEW
	CAP	<b>ABBREVIATIONS</b>			
	UNION		AREA DRAIN	N/A	NOT APPLICABLE
	PIPE BELOW GRADE		ABOVE FINISHED GRADE	NIC	NOT IN CONTRACT
	PIPE REMOVED IN DEMOLITION		ABOVE FINISHED FLOOR	NO.	NUMBER
	CONCENTRIC REDUCER		AMERICAN SOCIETY FOR TESTING & MATERIALS	NOP	NORMALLY OPEN
	ECCENTRIC REDUCER		BACKFLOW PREVENTER	NTS	NOT TO SCALE
	FLOW DIRECTION		BELOW FINISHED FLOOR	OD	OUTSIDE DIAMETER
	HOSE BIBB		CONDENSATE DRAIN	P	PUMP
	PUMP		CUBIC FOOT	PDI	PLUMBING & DRAINAGE INSTITUTE
	WALL CLEANOUT		CUBIC FEET PER HOUR	PRV	PRESSURE REDUCING VALVE
	FLOOR CLEANOUT		CENTERLINE	PSI	POUNDS PER SQUARE INCH
	CATCH BASIN		CEILING	RD	ROOF DRAIN
	FLOOR DRAIN		CONTINUATION	REC	ROOF CEPTOR
	FLOOR SINK		CHECK VALVE	RET	RETURN
			COLD WATER	RL	RAIN WATER LEADER
			DIAMETER	SF	SQUARE FEET
			DOWN	SMS	SHEET METAL STRAP
			EXISTING	SOV	SHUT OFF VALVE
			ELEVATION	TEMP	TEMPERATURE
			ELECTRICAL	TP	TRAP PRIMER PIPING
			FLEXIBLE CONNECTOR	TPV	TRAP PRIMER VALVE
			FEET PER SECOND		TYPICAL
			FLOW SWITCH	U	URINAL
			FEET	UH	UNIT HEATER
			GRADE CLEANOUT	V	VENT
				VAC	VACUUM
				VTR	VENT THRU ROOF
				W	WASTE
				W/	WITH
				WC	WATER CLOSET
				WHA	WATER HAMMER ARRESTOR



## GENERAL PLUMBING NOTES

- REPORT TO ARCHITECT, IN WRITING, CONDITIONS WHICH WILL PREVENT PROPER PROVISION OF THIS WORK.
- THE SUBMISSION OF BID PROPOSAL SHALL BE CONSIDERED AS CONCLUSIVE EVIDENCE THAT THE CONTRACTOR IS THOROUGHLY FAMILIAR WITH THE INTENT OF THE CONTRACT DOCUMENTS AND SCOPE OF WORK. THE CONTRACTOR, PRIOR TO BIDDING, SHALL VISIT THE JOB SITE, CHECK EXISTING INSTALLATIONS AND SYSTEMS RELATED TO HIS WORK AND SHALL IN THE BID PROPOSAL INCLUDE ALL LABOR AND MATERIAL REQUIRED TO COMPLETE THE SYSTEM.
- CONTRACTOR SHALL COMPLETE THE WORK WITH MINIMUM INTERFERENCE WITH EXISTING SYSTEMS. ANY SHUTDOWN OF THE EXISTING SYSTEM SHALL BE COORDINATED WITH THE GENERAL CONTRACTOR AND THE OWNER'S REPRESENTATIVE TWO WEEKS IN ADVANCE.
- ALL WORK UNDER THIS DIVISION SHALL BE COORDINATED WITH OTHER TRADES.
- PROTECT EXISTING BUILDING STRUCTURES, AND ADJACENT FINISHED SURFACES DURING CONSTRUCTION. PATCH, REPAIR AND REFINISH EXISTING WORK DAMAGED BY WORK UNDER THIS DIVISION TO MATCH ADJACENT UNDISTURBED AREAS. PATCHING AND REFINISHING IS TO BE PERFORMED BY WORKMEN SKILLED IN THE TRADES INVOLVED. DO NOT CUT ANY STRUCTURAL MEMBERS WITHOUT THE REVIEW AND APPROVAL OF THE STRUCTURAL ENGINEER.
- ALL MATERIALS AND WORKMANSHIP ARE SUBJECT TO REVIEW AND APPROVAL BY THE ARCHITECT. ANY PORTION OF THE WORK FOUND TO BE DEFECTIVE SHALL BE REPLACED BY THE CONTRACTOR AS PART OF THIS CONTRACT AT NO ADDITIONAL COST TO THE OWNER.
- ANY PIPING OFFSETS REQUIRED AS RESULT OF EXISTING JOB CONDITIONS, OR LACK OF COORDINATION WITH OTHER TRADES SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER AND IS SUBJECT TO REVIEW BY THE ARCHITECT.
- ALL FLOOR DRAIN TRAPS WILL BE PRIMED TO PROVIDE WATER SEAL FOR PREVENTION OF DRYING AND PREVENTION OF FUMES EXITING UP THROUGH DRAINS.
- INSULATE HOT WATER PIPING SUPPLY AND RETURN, INSULATE COLD WATER PIPING LOCATED EXPOSED IN TEMPERED ROOMS, IN CRAWL SPACE OR ATTIC AREA, AND EXPOSED OUTSIDE UNDER OVERHANGS. PIPING EXPOSED TO RAIN SHALL BE INSULATED WITH CLOSED CELL INSULATION, ALUMINUM JACKET INSULATION SHALL BE PAINTED TO MATCH THE SURROUNDING, AS APPROVED PER ARCHITECT IN SUBMITTAL.
- FOR PIPES PENETRATING WALL, PROVIDE ESCUTCHEON ALL EXPOSED LOCATIONS.
- COORDINATE WITH FLOOR, CEILING AND WALL CONSTRUCTION TRADE TO PROVIDE ACCESS PANEL FOR ALL VALVES AND OTHER EQUIPMENT REQUIRING ACCESS.

## GENERAL DEMOLITION NOTES

- COORDINATE DEMOLITION, CUTTING PATCHING, ETC. WITH GENERAL CONTRACTOR AND EXISTING FIELD CONDITIONS PRIOR TO SUBMITTING CONSTRUCTION CONTRACT BIDS. SEE SPECIFICATIONS GENERAL PROVISIONS, NOT ALL PIPING IS ILLUSTRATED.
- REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR SPACE ALLOTMENT, BEAM LOCATION AND COORDINATION PURPOSES. CONFLICTS REGARDING SPACE REQUIREMENTS, CLEARANCES, INTERFERENCE WITH STRUCTURE OR OTHER WORK, ETC., SHALL BE DIRECTED TO THE ARCHITECT FOR RESOLUTION PRIOR TO INSTALLATION OF WORK.
- CUTTING, PATCHING AND PAINTING OF EXISTING WALLS, CEILINGS AND FLOOR TO ACCOMMODATE WORK AS SHOWN OR SPECIFIED HEREIN, SHALL BE INCLUDED IN THE WORK FOR EACH TRADE.
- VERIFY AND COORDINATE EXISTING WASTE, VENT AND WATER PIPING TO REMAIN IN SERVICE. EXISTING WASTE, VENT AND WATER PIPING SERVING EXISTING PLUMBING FIXTURES, FLOOR SINKS AND FLOOR DRAINS TO BE REMOVED ARE TO BE CAPPED BELOW FLOOR OR REMOVED BACK TO PLUMBING PIPING REMAINING IN SERVICE THEN CAPPED, EXCEPT AS NOTED. CONTRACTOR SHALL REROUTE/REPIPE EXISTING PIPING TO REMAIN AS REQUIRED TO MAINTAIN SERVICE. EXISTING PIPING SERVING OTHER TENANTS/BUILDING SPACES IS TO REMAIN.
- REMOVE EXISTING FIXTURES, CLEAN AND RE-CONNECT TO EXISTING SERVICES AFTER NEW WALL AND/OR COUNTER FINISHES HAVE BEEN INSTALLED. COORDINATE LOCATION OF EACH FIXTURE WITH ARCHITECT.

## GENERAL SEISMIC NOTES

- 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.
- 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.
  - TEMPORARY OR REMOVABLE EQUIPMENT.
  - EQUIPMENT WEIGHTING LESS THAN 20 POUNDS SUPPORT BY VIBRATION ISOLATORS.
  - 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.
- FIRE PROTECTION PIPING
  - THE SPACING AND DETAILS OF THE SUPPORT AND BRACING OF FIRE SPRINKLER PIPING SHALL COMPLY WITH THE LATEST EDITION OF NFPA 13.
  - PROVIDE ANCHORAGE DETAILS AND CALCULATIONS OF THE CONNECTION OF SWAY BRACING TO THE STRUCTURE.
  - DESIGN LOADS FOR THE ANCHORAGE MAY BE COMPUTED PER TABLE 4-6.4.3.5.2 OF NFPA 13, 1994 EDITION.
  - WHERE APPLICABLE DETAILS FOR THE SUPPORT AND BRACING MAY BE PER ITEM B ABOVE.
  - ALL SHOP DRAWINGS OF THE SPRINKLER SYSTEM SHALL BE SUBMITTED TO THE LOCAL FIRE MARSHAL AND MECHANICAL ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- CALCULATIONS AND DRAWINGS SHALL BE SUBMITTED FOR PIPING SUPPORTS AND BRACING SHOWING:
  - LOCATION OF SEISMIC BRACING.
  - REACTION FORCES TO THE SUPPORTING STRUCTURE.
  - MANUFACTURER'S DESIGNATION OF SUPPORT DEVICES.
- SEISMIC BRACING POINTS SHALL BE SUBMITTED ON CONTRACTOR'S COORDINATED SHOP DRAWINGS.
- 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. SUBMIT APPLICABLE DETAILS FOR REVIEW AND APPROVAL.

## SHEET INDEX

P0.1	PLUMBING LEGENDS, NOTES, ABBREVIATIONS & DRAWING INDEX
PD1.1	FIRST FLOOR DEMOLITION PLAN - PLUMBING
PD1.2	SECOND FLOOR DEMOLITION PLAN - PLUMBING
PD1.3	THIRD FLOOR DEMOLITION PLAN - PLUMBING
PD3.1	ENLARGED DEMOLITION PLAN - PLUMBING
P2.1	FIRST FLOOR PLAN - PLUMBING
P2.2	SECOND FLOOR PLAN - PLUMBING
P2.3	THIRD FLOOR PLAN - PLUMBING
P3.2	ENLARGED PLAN - PLUMBING
P3.3	ENLARGED PLANS - PLUMBING
P4.1	PLUMBING EQUIPMENT SCHEDULES
P6.1	PLUMBING DETAILS
P6.2	PLUMBING DETAILS



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 415.489.7299  
www.interfaceengineering.com

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REVISIONS	DATE
ADDENDUM NO. 1	08/18/08
ADDENDUM NO. 2	11/06/09

REVISION STATUS	DATE
PSA PLAN CHECK	08/28/08
PSA BACK CHECK	01/22/09
BCDC/ML (BID #68593)	08/18/09
CONSTRUCTION	

FILE NO. 41-C1

IDENTIFICATION STAMP  
DIV. OF THE STATE ARCHITECT

01 - 110074

AC \_\_\_\_\_ FLS \_\_\_\_\_ SS \_\_\_\_\_

DATE \_\_\_\_\_

## BUILDINGS 5 & 6 RENOVATIONS

San Mateo County Community College District

## BID ADDENDA

APPROVED  
DIV. OF THE STATE ARCHITECT

AC *Mr. G.B. SS JG*  
FILE NO. 110074 DATE 8/16/10

**CAÑADA COLLEGE**  
4200 Farm Hill Boulevard  
Redwood City, CA 94061

PLUMBING LEGENDS,  
NOTES, ABBREVIATIONS  
AND DRAWING INDEX

Date 08/29/08 Drawing Number  
Scale AS NOTED  
Project Number 07013

**P0.1**