PLUMBING LEGEND		
SYMBOL	ITEM	ABBR
	SOIL OR WASTE	S or W
	VENT	V
	VENT RISER	VR
	VENT THROUGH ROOF	VTR
	DOMESTIC COLD WATER	CW
	DOMESTIC HOT WATER	HW
	DOMESTIC HOT WATER RETURN	HWR
—G—	NATURAL GAS	G
—C—	CONDENSATE DRAIN	CD
	EXISTING PIPING	
	FLOOR CLEANOUT	FCO
	CLEANOUT TO GRADE	COTG
	WALL CLEANOUT	WCO
	PIPING TURN UP	
	PIPING TURN DOWN	
	POINT OF CONNECTION	POC
(N)	NEW	
(E)	EXISTING	
	ABOVE CEILING	ABV. CLG.
	BELOW FLOOR	BEL. FLR.
	BELOW GRADE	BEL. GR.
	TYPICAL	TYP.
	CONTINUATION	CONT.
	SHUT-OFF VALVE IN BOX	SOV
	GATE VALVE	
	CHECK VALVE	
	PLUG VALVE	

AIR CONDITIONING LEGEND		
SYMBOL	ITEM	ABBR
	ROUND DUCT	—
	SHEET METAL DUCT	—
	DUCT WITH ACOUSTIC LINING	—
	SUPPLY AIR DUCT DROP	—
	RETURN AIR DUCT DROP	—
	EXHAUST AIR DUCT DROP	—
	SUPPLY AIR DUCT RISE	—
	RETURN AIR DUCT RISE	—
	EXHAUST AIR DUCT RISE	—
	TURNING VANES	TV
	EXTRACTOR	—
	VOLUME CONTROL DAMPER WITH LOCKING QUADRANT	VCD
-OR-	FIRE DAMPER WITH ACCESS PANEL *	FD
CFM	CUBIC FEET OF AIR PER MINUTE	CFM
T	THERMOSTAT @ +4'-"	T'STAT
	DIRECTION OF FLOW	—
	SUPPLY AIR	SA
	RETURN AIR	RA
	EXHAUST AIR	EA
	OUTSIDE AIR	OSA
	PIPE OR DUCT TURN DOWN	—
	PIPE OR DUCT TURN UP	—
	BYPASS TIMER	BPT
	POINT OF CONNECTION	POC
	EXISTING (DESIGNATED)	(E)

AIR CONDITIONING LEGEND		
SYMBOL	ITEM	ABBR
—HWS—	HOT WATER SUPPLY	HWS
—HWR—	HOT WATER RETURN	HWR
—CWS—	CHILLED WATER SUPPLY	CWS
—CWR—	CHILLED WATER RETURN	CWR
—CHWS—	CHILLED/HOT WATER SUPPLY	CHWS
—CHWR—	CHILLED/HOT WATER RETURN	CHWR
—BS—	BRINE SUPPLY	BS
—BR—	BRINE RETURN	BR
—S—	STEAM SUPPLY	—
—SCR—	STEAM CONDENSATE RETURN	—
—RD—	REFRIGERANT DISCHARGE	RD
—RL—	REFRIGERANT LIQUID	RL
—RS—	REFRIGERANT SUCTION	RS
	BALL VALVE	—
	BUTTERFLY VALVE	—
	CHECK VALVE	—
	GATE VALVE	—
	PLUG VALVE	—
	PRESSURE RELIEF VALVE	PRV
	UNION	—
	INSTRUMENT WELL	—
	FLOW SWITCH	FS
	STRAINER	—
	REDUCER OR INCREASER	—

* FIRE DAMPERS SHALL BE STATE FIRE MARSHALL APPROVED AND INSTALLED STRICTLY PER MANUFACTURER'S LIMITED FABRICATION

EQUIPMENT ANCHORAGE

All mechanical and electrical equipment shall be braced or anchored to resist a horizontal force acting in any direction using the following criteria:

Fixed Equipment on Grade	22% of Operating Weight
Fixed Equipment on Structure	33% of Operating Weight
Emergency Power Equipment on Grade	33% of Operating Weight
Emergency Power Equipment on Structure	50% of Operating Weight

For Flexibly Mounted Equipment Use 2 X the above values. Simultaneous Vertical Force - Use 1/3 X Horizontal Force.

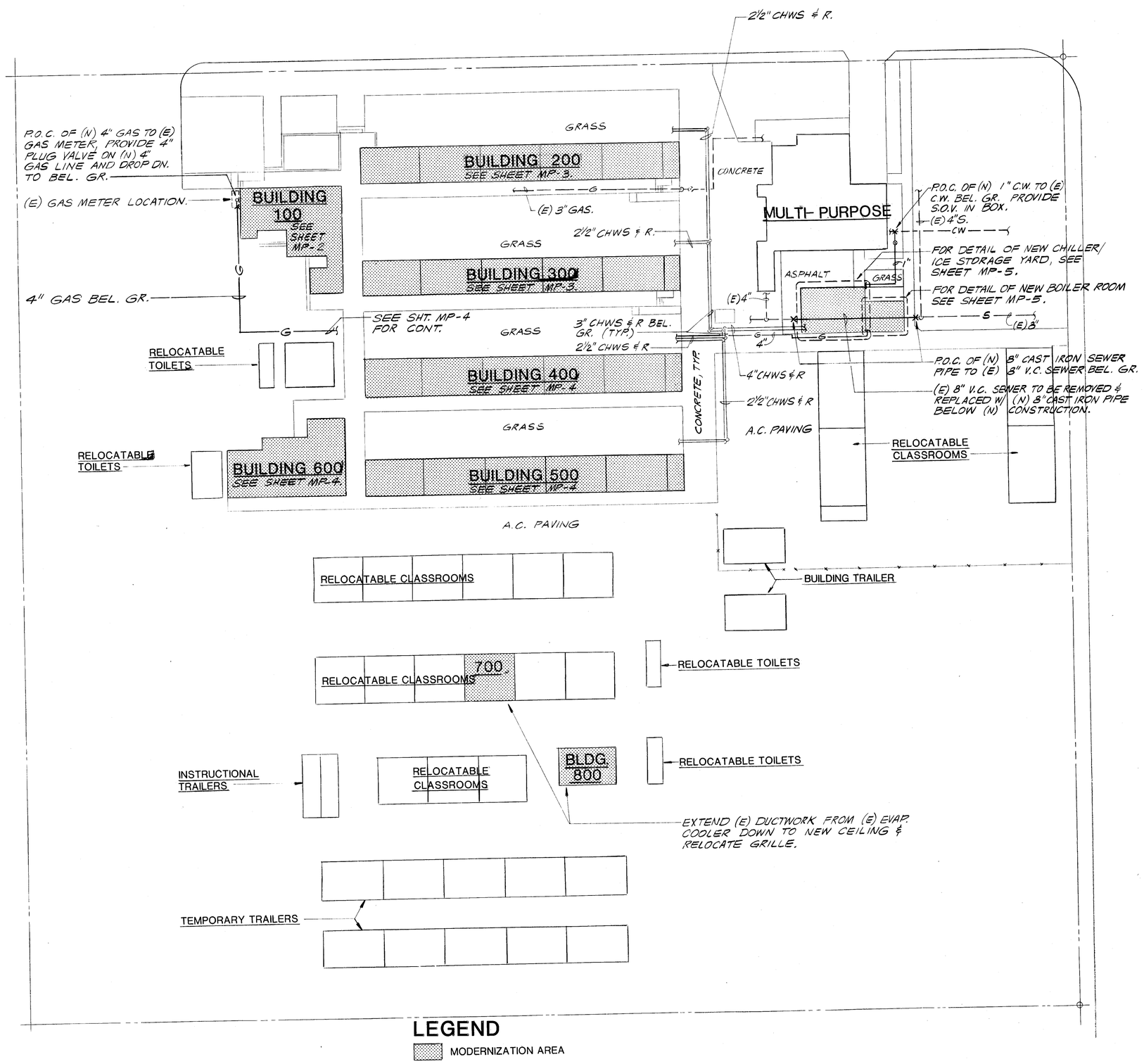
Where anchorage details are not shown on the drawings the field installation shall be subject to the approval of the *MECHANICAL* engineer and the field representative of the Office of the State Architect.

GENERAL PROJECT NOTE - COORDINATION OF WORK:

Layout of materials, equipment and systems is generally diagrammatic unless specifically dimensioned. Some work may be shown offset for clarity. The actual locations of all materials, piping, ductwork, fixtures, equipment, supports, etc. shall be carefully planned, prior to installation of any work, to avoid all interferences with each other, or with structural, electrical, architectural or other elements. Verify the proper voltage and phase of all equipment with the electrical plans. All conflicts shall be called to the attention of the Architect and the Engineer prior to the installation of any work or the ordering of any equipment.

NOTES

1. ALL EXISTING EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE NOTED. ALL REMOVED EQUIPMENT WHICH REMAINS THE DISTRICT'S PROPERTY SHALL BE DELIVERED TO THE DISTRICT MAINTENANCE YARD.
2. REMOVE ALL EXISTING THERMOSTATS AND DO NOT REUSE. INSTALL COVER PLATE. (UNLESS EXISTING HEATING SYSTEM TO REMAIN OR OTHERWISE NOTED).
3. PIPE PENETRATION THRU FIRE RATED SURFACES USE 3M FIRE BARRIER NO SAG CAULK CP 25N/S MUST MEET UL 1479 FIRESTOPS



MECHANICAL SITE PLAN

SCALE: 1"=40'-0"

approved

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MECHANICAL SITE PLAN SCALE: 1"=40'-0"

MT. VERNON MODERNIZATION
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2161 POTOMAC AVENUE
BAKERSFIELD, CALIFORNIA 93307

job 87-126

date 1 FEB 89

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