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 0+48"-0"	T'STAT
	DIRECTION OF FLOW	—
SA	SUPPLY AIR	SA
RA	RETURN AIR	RA
EA	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
—S—	STEAM SUPPLY	—
—SCR—	STEAM CONDENSATE RETURN	—
—D—	DRAIN	—
—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	—
	FLEXIBLE CONNECTION	FLEX
	REDUCER OR INCREASER	—
—BS—	BRINE SUPPLY	BS
—BR—	BRINE RETURN	BR

NOTES:

1. REMOVE ALL EXISTING THERMOSTATS AND DO NOT REUSE. INSTALL COVER PLATE. (UNLESS EXISTING HEATING SYSTEM TO REMAIN OR OTHERWISE NOTED).
2. CONTRACTOR TO WATER-JET UNDER EXISTING CONCRETE WHEN SOIL CONDITIONS PERMIT. SAWCUTTING WILL BE PERMITTED WHEN CONDITIONS DO NOT ALLOW JETTING OR EXCAVATION BELOW EXISTING CONCRETE. ALL CONCRETE TO BE PATCHED TO MATCH EXISTING WHEN CUT.
3. Fire dampers shall be State Fire Marshal approved and installed strictly per manufacturer's printed instructions.
4. Manufacturer's installation instructions shall be made available to the inspecting authorities.

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.

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	20% of Operating Weight
Fixed Equipment on Structure	30% of Operating Weight
~~Emergency Power Equipment on Grade~~	~~40% of Operating Weight~~ 1/3 A
~~Emergency Power Equipment on Structure~~	~~60% of Operating Weight~~

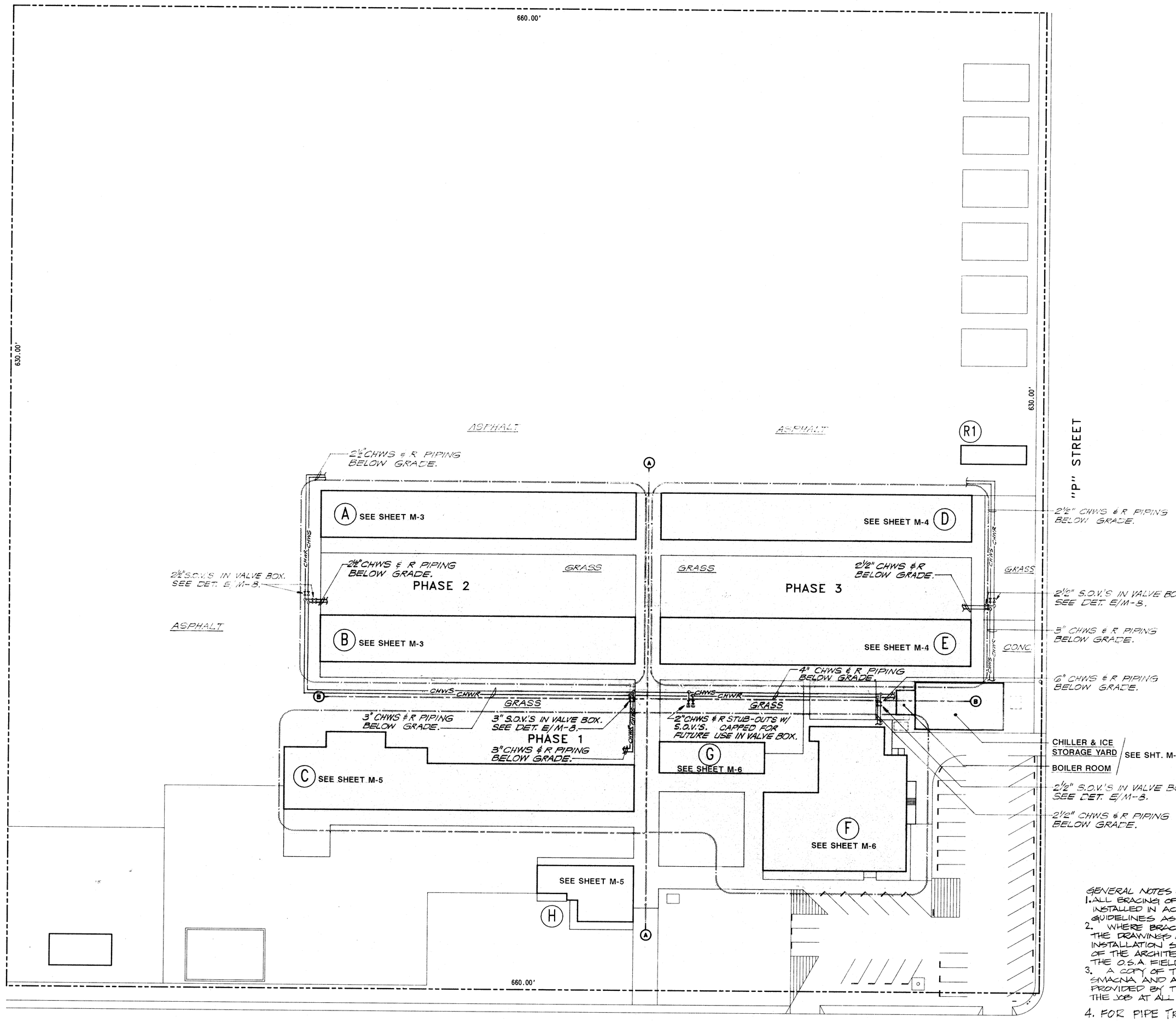
For Flexibly Mounted Equipment Use 4X the above values. Simultaneous Vertical Force - Use 1/3 X Horizontal Force.

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.

ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES AS APPROVED BY OSA.

WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND THE OSA FIELD ENGINEER.

A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY OSA SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.



north

MECHANICAL SITE PLAN

1"=30'-0"

GENERAL NOTES:
1. ALL BRACING OF DUCTS AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA GUIDELINES AS APPROVED BY O.S.A.
2. WHERE BRACING DETAILS ARE NOT SHOWN ON THE DRAWINGS OR IN THE GUIDELINES, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT, MECHANICAL ENGINEER AND THE O.S.A FIELD ENGINEER.
3. A COPY OF THE GUIDELINES PUBLISHED BY SMACNA AND APPROVED BY O.S.A. SHALL BE PROVIDED BY THE CONTRACTOR AND KEPT ON THE JOB AT ALL TIMES.
4. FOR PIPE TRENCH DETAIL SEE DET. 2/A9.
5. FOR EXPANSION BOLT PROOF LOAD TEST SEE NOTE #1 SHEET A9

TITLE 24 C 1998 UBC
Department of General Services
Office
7 1990
Structural Safety Section
A 53548 JCH/CA

DEC 7 1990
STATE FIRE MARSHAL
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BAKERSFIELD, CALIFORNIA

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Sheet title: MECHANICAL SITE PLAN

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MD # 1104A

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Checked by: G. NYE
Job no: 1702
Sheet: M-1
Sheet of:
Date:

OLA APPLICATION NO 77-66 12