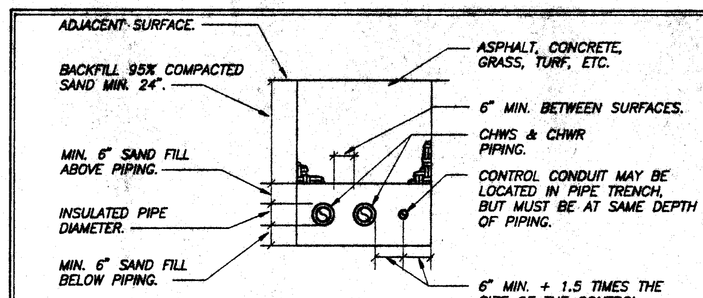
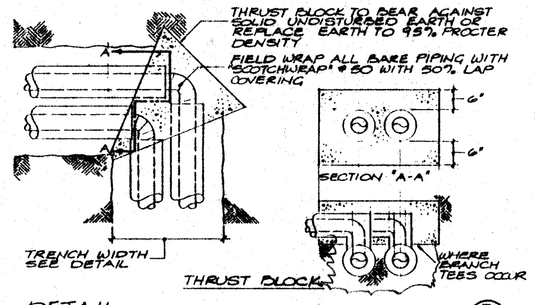


PIPE TRENCH

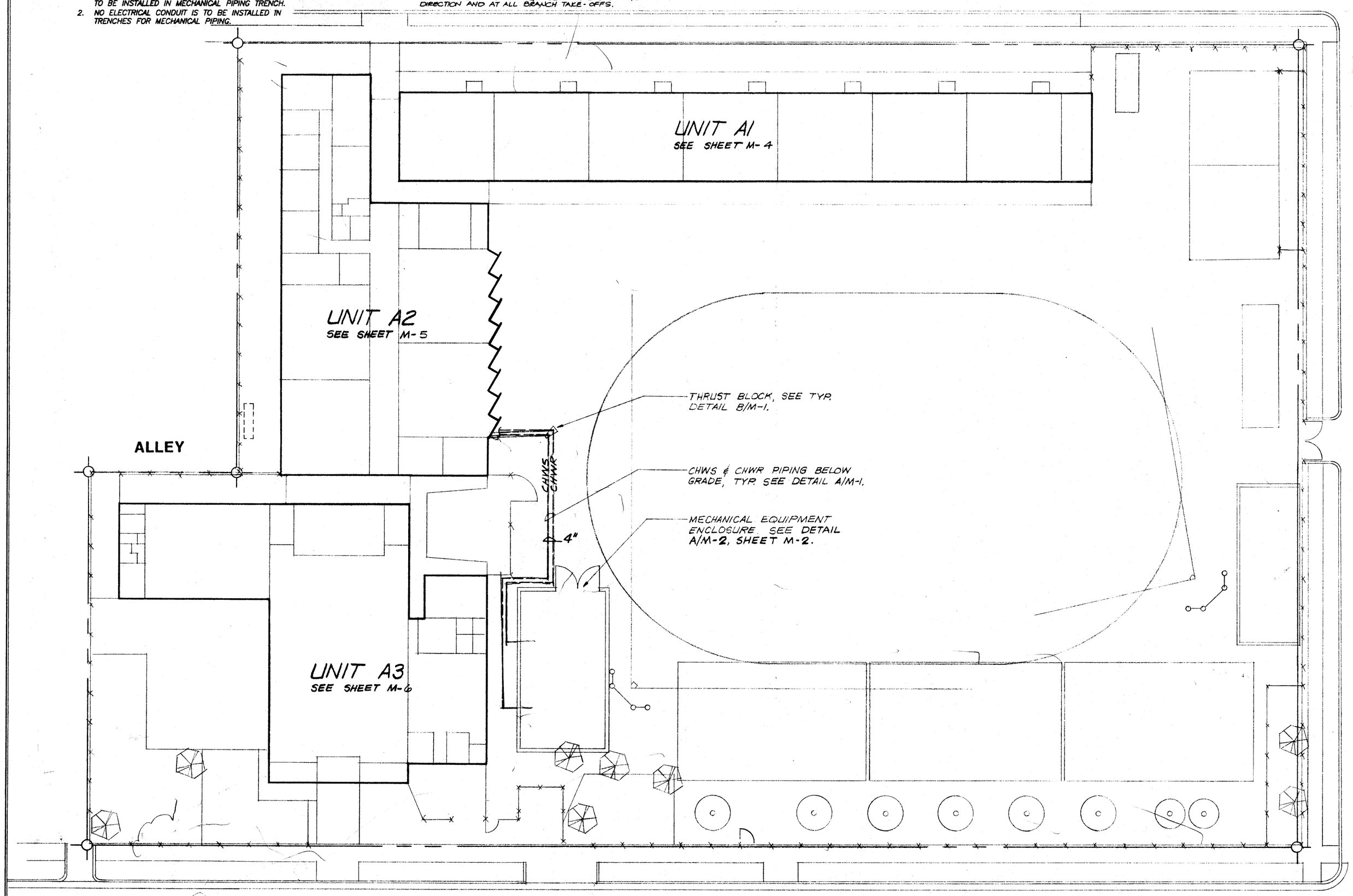
DETAIL A / M-1
NO SCALE

NOTE:
1. NO CONDUIT OTHER THAN THAT SHOWN ABOVE IS TO BE INSTALLED IN MECHANICAL PIPING TRENCH.
2. NO ELECTRICAL CONDUIT IS TO BE INSTALLED IN TRENCHES FOR MECHANICAL PIPING.



DETAIL B / M-1
NO SCALE

THRUST BLOCK TO COMPLETELY ENCLOSE UNINSULATED PIPING. THRUST BLOCKS ARE REQUIRED AT EVERY CHANGE IN DIRECTION AND AT ALL BRANCH TAKE-OFFS.



AIR CONDITIONING SITE PLAN

SCALE: 1" = 20'-0"

FOR COMPLETE SITE PLAN DETAILS REFER TO ARCHITECTURAL SITE PLAN.

SHEET INDEX

SHEET	DESCRIPTION
M-1	SITE PLAN
M-2	SCHEDULE AND MECHANICAL ENCLOSURE
M-3	FLOW DIAGRAM AND CONTROLS
M-4	UNIT A1 FLOOR PLAN
M-5	UNIT A2 FLOOR PLAN
M-6	UNIT A3 FLOOR PLAN
M-7	DETAIL SHEET
M-8	DEMOLITION

GENERAL NOTES:

1. SPECIFICALLY OMITTED FROM THE SERVICES OF JOHN FRANK MITCHELL, INC., ARE ALL DESIGN AND CONSTRUCTION REVIEW SERVICES RELATING TO THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES REQUIRED FOR THE CONTRACTOR TO PERFORM HIS WORK, BUT NOT RELATING TO THE FINAL OR COMPLETED STRUCTURE: OMITTED SERVICES INCLUDE BUT ARE NOT LIMITED TO SHORING, SCAFFOLDING, UNDERPINNING, TEMPORARY RETAINMENT OF EXCAVATIONS, ANY ERECTION METHODS AND BRACING.

2. CONTRACT DRAWINGS FOR THE EXISTING FACILITY ARE ON FILE AT THE OFFICE OF THE ARCHITECT, KENDRICK DESIGN GROUP, FOR THE PURPOSE OF MANDATORY REFERENCE BEFORE SUBMITTING BID. CONTRACTOR SHALL VISIT THE JOBSITE AND INSPECT THE EXISTING CONDITIONS AND, BASED ON THE REVIEWED SITE CONDITIONS AND REFERENCED DRAWINGS, MAKE THE MODIFICATIONS AND EXTENSIONS TO THE EXISTING SYSTEMS AS GENERALLY DELINEATED. NO CLAIM FOR EXTRA SUMS WILL BE ALLOWED DUE TO THE CONTRACTOR'S FAILURE TO PROPERLY EXAMINE THE SITE AND REFERENCED DRAWINGS.

3. 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 FLEXIBLE 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.

4. ANY CUTTING, DRILLING, CORING OR SAW CUTTING OF EXISTING CONSTRUCTION ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN DRAWINGS OR APPROVED BY THE ARCHITECT OR STRUCTURAL ENGINEER AND BY THE OSA REPRESENTATIVE.

AIR CONDITIONING LEGEND

SYMBOL	ITEM	ABBR.	SYMBOL	ITEM	ABBR.
	DUCT	—		CHILLED WATER SUPPLY	CWS
	DUCT WITH ACOUSTICAL LINING	—		CHILLED WATER RETURN	CWR
	SUPPLY AIR DUCT DROP	—		CHILLED AND HOT WATER SUPPLY	CHWS
	RETURN AIR DUCT DROP	—		CHILLED AND HOT WATER RETURN	CHWR
	SUPPLY AIR DUCT RISE	—			
	RETURN AIR DUCT RISE	—		GATE VALVE	G.V.
	TURNING VANES	—		GLOBE VALVE	GL.V.
	EXTRACTOR	—		CHECK VALVE	C.V.
	VOLUME CONTROL DAMPER	V.C.D.		STRAINER	—
	FIRE DAMPER WITH ACCESS PANEL	F.D.		STRAINER WITH COCK	—
T	THERMOSTAT @ +6'0"	—		UNION	—
	PRESSURE RELIEF VALVE	PRV.		PLUG VALVE	P.V.
				BUTTERFLY VALVE	B.V.
	DIRECTION OF FLOW	—		REDUCER OR INCREASER	—
	SUPPLY AIR	S.A.		POINT OF CONNECTION	P.O.C.
	RETURN AIR	R.A.	HWS	HOT WATER SUPPLY	HWS
	EXHAUST AIR	E.A.	HWR	HOT WATER RETURN	HWR
	OUTSIDE AIR	O.A.	CHWS	CHILLED AND HOT WATER SUPPLY BELOW GRADE	CHWS
	PIPING TURN DOWN	—			
	PIPING TURN UP	—	CHWR	CHILLED AND HOT WATER RETURN BELOW GRADE	CHWR
	SHEET METAL	S/M		EXISTING PIPING ABOVE & BELOW GRADE	
	GAUGE	GA.		GALVANIZED	GALV.
	WITH	W/		DIAMETER	DIA.
	TYPICAL	TYP.		EXISTING	(E)

TITLE 24 & 1979 UBC

FEB 27 19

Structural Safety Section
Appl. # 52439 BA/ltr

date
1-26-90
revisions

WILLIAM PENN SCHOOL MODERNIZATION
BAKERSFIELD CITY SCHOOL DISTRICT
BAKERSFIELD, CALIFORNIA

Division of State Architect
Approved
FEB 27 1990
Structural Safety Section
Checked By

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M-1
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