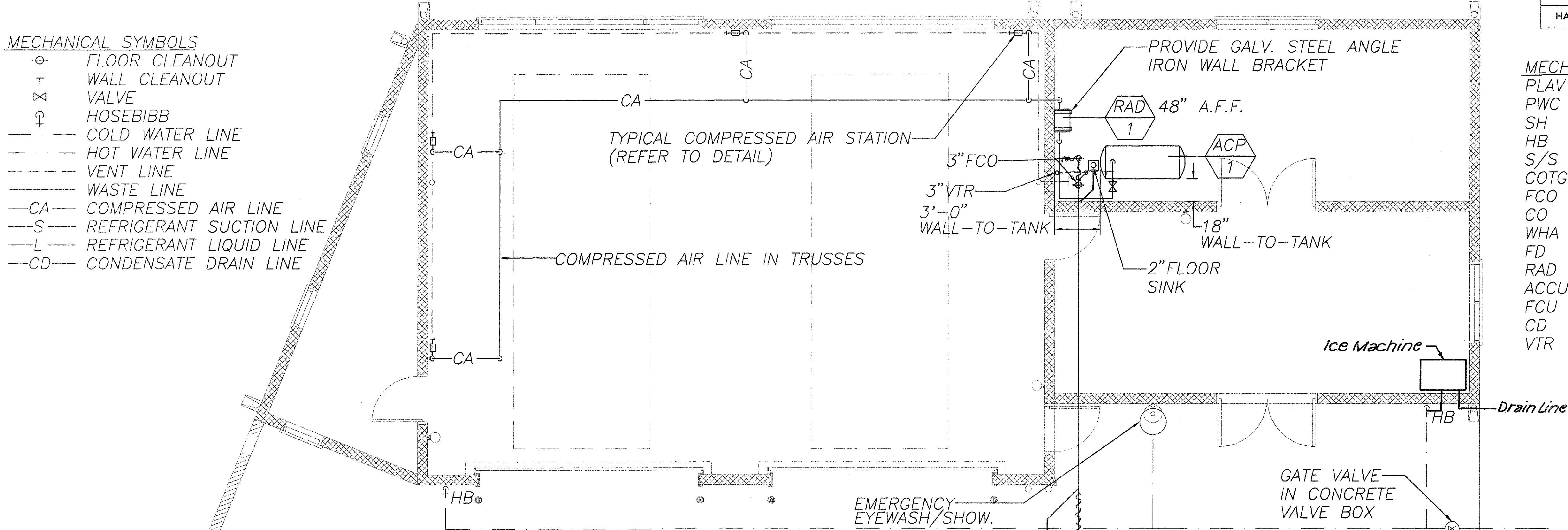


DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-98		ADD 52	60

- MECHANICAL SYMBOLS
- ⊕ FLOOR CLEANOUT
  - ⊕ WALL CLEANOUT
  - Σ VALVE
  - ⊕ HOSEBIBB
  - COLD WATER LINE
  - HOT WATER LINE
  - VENT LINE
  - WASTE LINE
  - CA— COMPRESSED AIR LINE
  - S— REFRIGERANT SUCTION LINE
  - L— REFRIGERANT LIQUID LINE
  - CD— CONDENSATE DRAIN LINE

- MECHANICAL LEGEND
- PLAV ACCESSIBLE LAVATORY
  - PWC ACCESSIBLE WATER CLOSET
  - SH ACCESSIBLE SHOWER
  - HB HOSEBIBB
  - S/S SERVICE SINK
  - COTG CLEANOUT TO GRADE
  - FCO FLOOR CLEANOUT
  - CO CLEANOUT
  - WHA WATER HAMMER ARRESTOR
  - FD FLOOR DRAIN
  - RAD REFRIGERATED AIR DRYER
  - ACCU AIR COOLED CONDENSING UNIT
  - FCU FAN COIL UNIT
  - CD CONDENSATE DRAIN
  - VTR VENT THRU ROOF



BOARD OF WATER SUPPLY DOMESTIC FLOW REQUIREMENT:

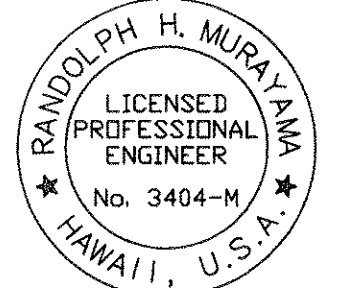
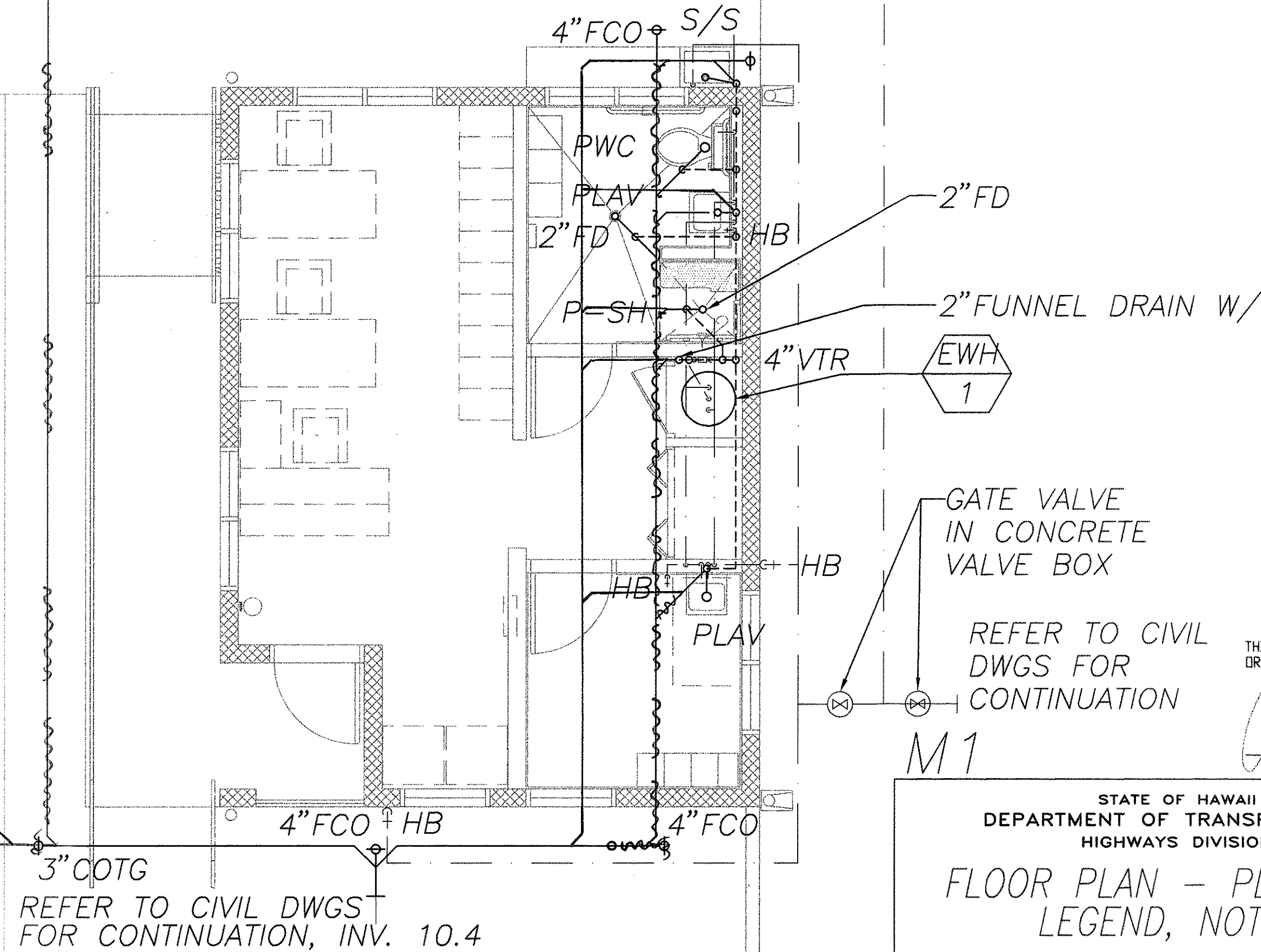
PREM. ID # 1101963	METER # 80021643	FU	GPM	GPD
A. PROPOSED DOMESTIC		25.1	17	1000
B. PROPOSED IRRIGATION		13	10	400
C. PROPOSED TOTAL		38.1	24	1400
D. TO BE REMOVED/DEMO		14.0	11	600
E. NET TOTAL (C-D; -CREDIT/+CHARGE)		24.1	16	900
F. EXISTING TO REMAIN		—	—	—
G. GRAND TOTAL (C+F; ON METER)		38.1	24	1400

FIXTURE UNIT INFORMATION (NEW FIXTURES)

QTY	REGULAR FU	FIXTURE TYPE	QTY	LOW FLOW FU	TOTAL
1	2	SERVICE SINK	—	1.6	2.0
—	3	WATER CLOSET (TANK, PRIV)	1	1.7	1.7
—	1	LAV, PRIVATE	2	0.6	1.2
—	2	SHOWER	1	1.6	1.6
6	3	HOSEBIBB	—	—	18
1	0.6	EMER. EYEWASH	—	—	0.6
		TOTAL			25.1

FIXTURE UNIT INFORMATION (DEMO FIXTURES) (REFER TO SHEET C-1 FOR PLAN)

QTY	REGULAR FU	FIXTURE TYPE	QTY	LOW FLOW FU	TOTAL
1	2	URINAL	—	1.7	2.0
1	3	WATER CLOSET (TANK, PRIV)	1	1.7	3.0
1	1	LAV, PRIVATE	—	0.6	1.0
1	2	SHOWER	1	1.6	2.0
2	3	HOSEBIBB	—	—	6.0
		TOTAL			14.0



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

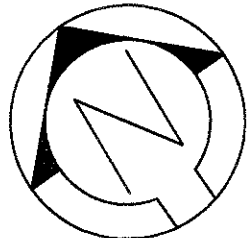
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

FLOOR PLAN - PLUMBING  
LEGEND, NOTES

HAUULA BASEYARD  
IMPROVEMENTS  
Project No. HWY-0-03-98  
Scale: AS SHOWN Date: APR 2000

SHEET No. M1 OF SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	04/00
TRACED BY	US
NOTE BOOK DESIGNED BY	US
QUANTITIES BY	04/00
CHECKED BY	04/00
No.	



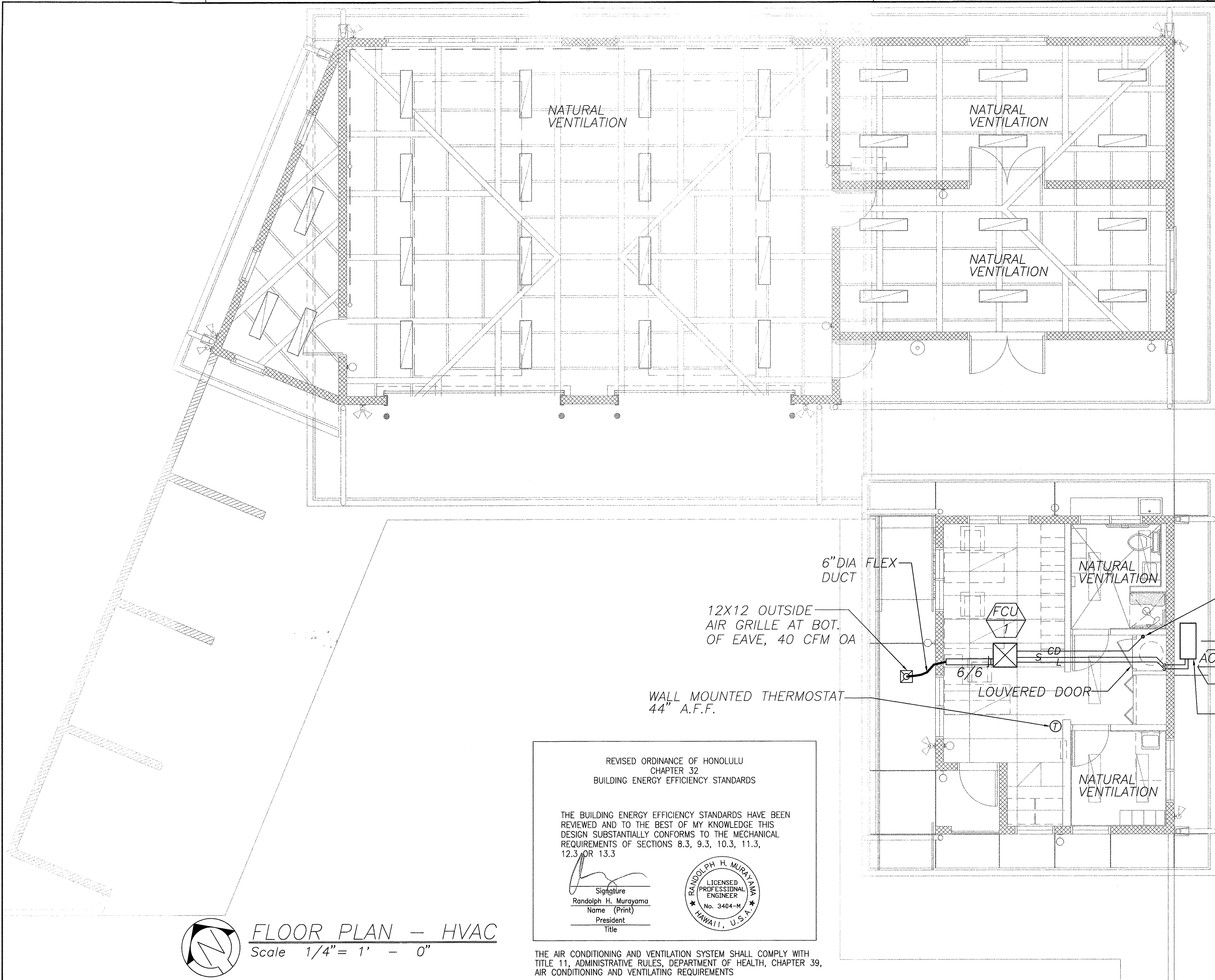
FLOOR PLAN - PLUMBING  
Scale 1/4" = 1' - 0"

05/30/00	Revised plumbing chase near heater
DATE	REVISION

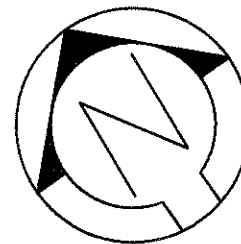
"AS-BUILT"

ADD. 52

DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-98	2000	53	60



ORIGINAL	SURVEY PLOTTED BY	DATE
PLAN	DESIGNED BY	04/00
NOTE BOOK	DESIGNED BY	04/00
QUANTITIES BY	CHECKED BY	04/00
No.		



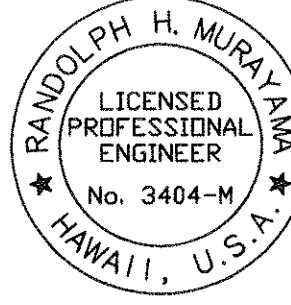
# FLOOR PLAN - HVAC

Scale 1/4" = 1' - 0"

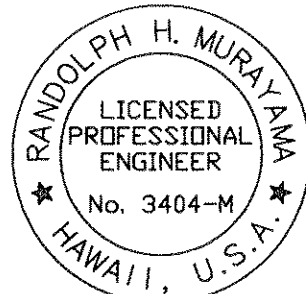
REVISED ORDINANCE OF HONOLULU  
CHAPTER 32  
BUILDING ENERGY EFFICIENCY STANDARDS

THE BUILDING ENERGY EFFICIENCY STANDARDS HAVE BEEN  
REVIEWED AND TO THE BEST OF MY KNOWLEDGE THIS  
DESIGN SUBSTANTIALLY CONFORMS TO THE MECHANICAL  
REQUIREMENTS OF SECTIONS 8.3, 9.3, 10.3, 11.3,  
12.3 OR 13.3

Signature  
Randolph H. Murayama  
Name (Print)  
President  
Title



THE AIR CONDITIONING AND VENTILATION SYSTEM SHALL COMPLY WITH  
TITLE 11, ADMINISTRATIVE RULES, DEPARTMENT OF HEALTH, CHAPTER 39,  
AIR CONDITIONING AND VENTILATING REQUIREMENTS



THIS WORK WAS PREPARED BY ME  
OR UNDER MY SUPERVISION.

M2

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

FLOOR PLAN - HVAC

HAUULA BASEYARD  
IMPROVEMENTS

Project No. HWY-0-03-98

Scale: AS SHOWN

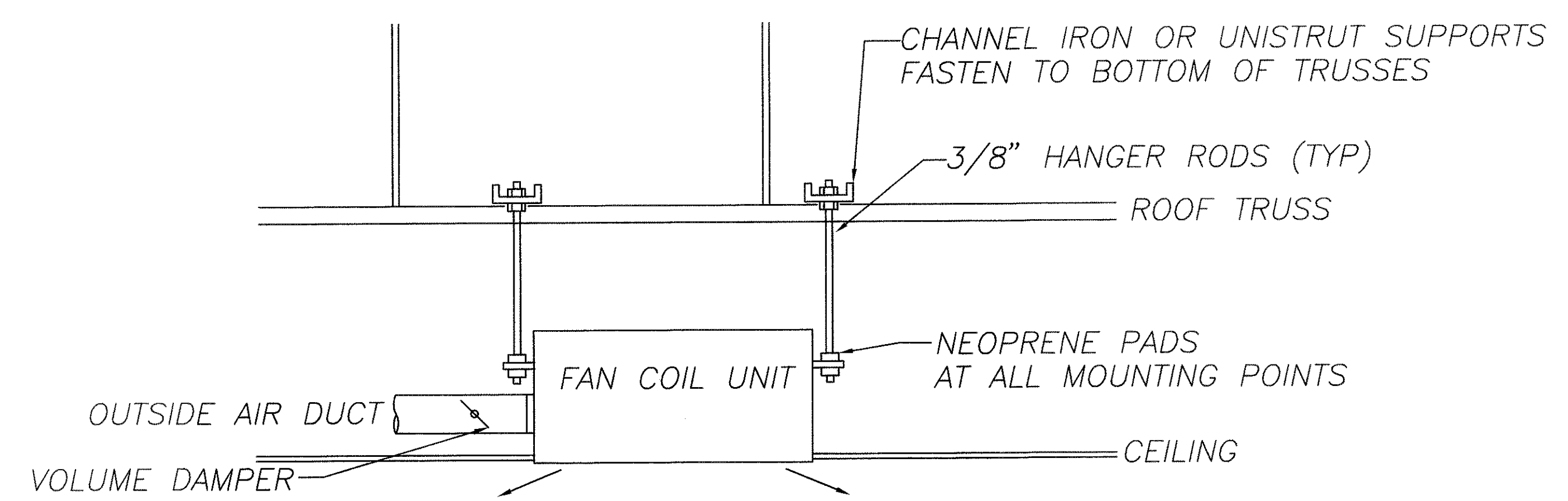
Date: APR 2000

SHEET No. M2 OF 60 SHEETS

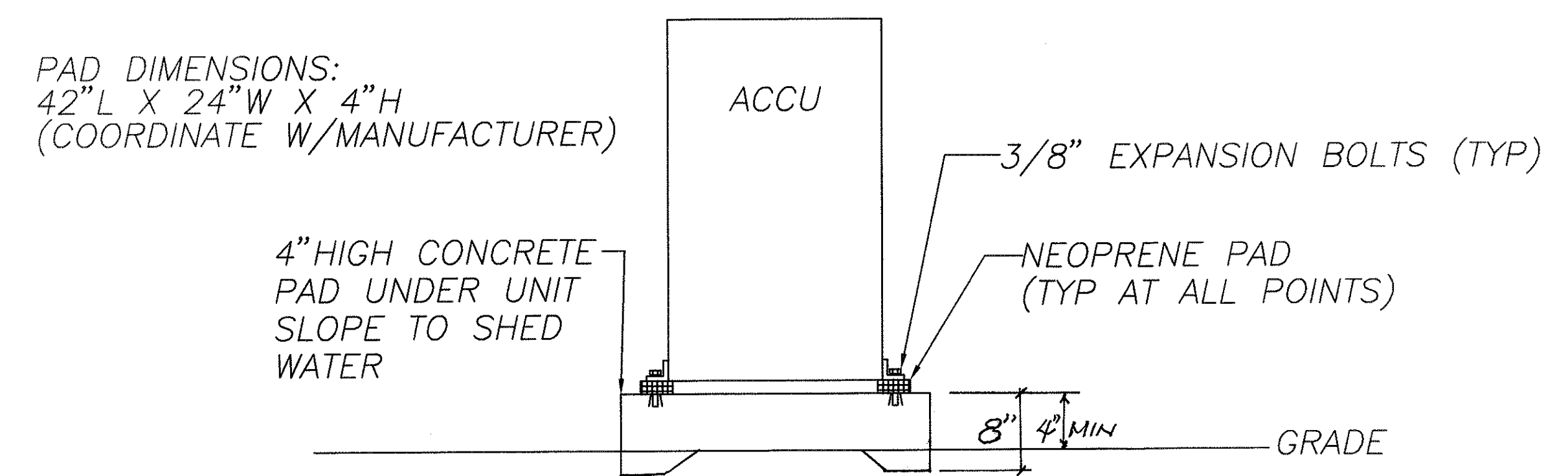




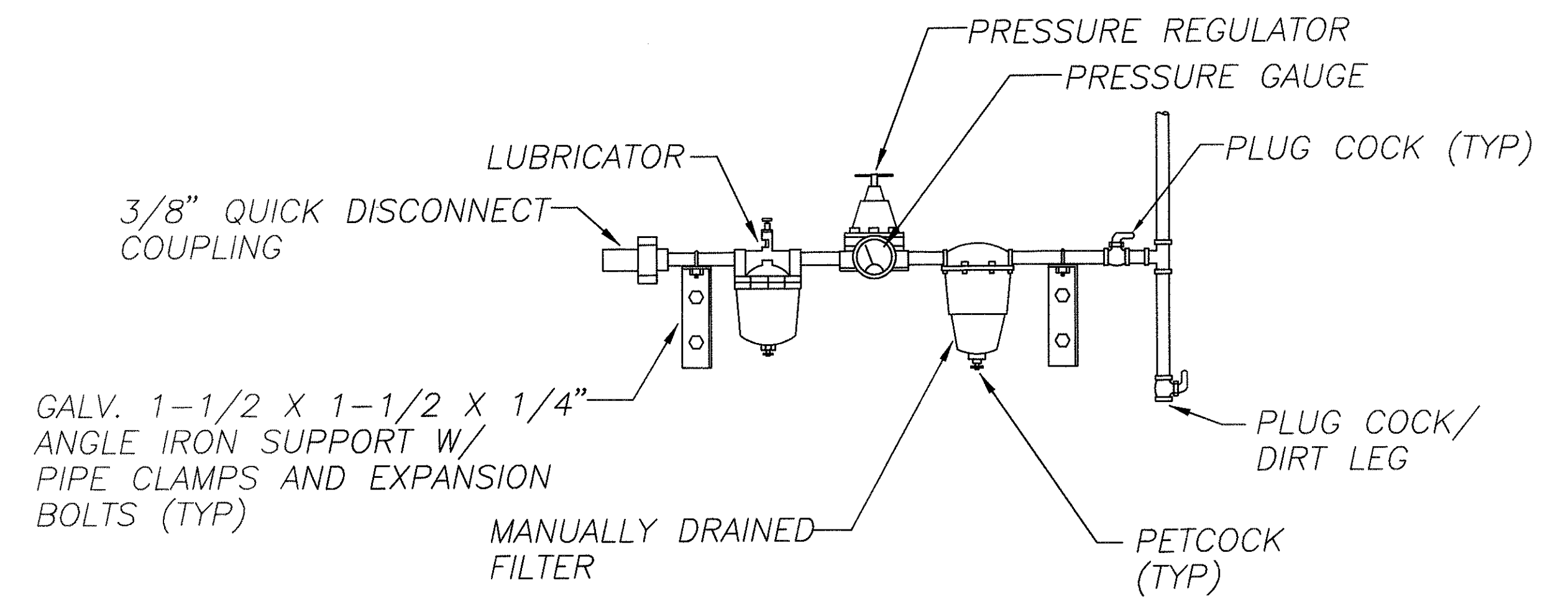
DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-03-98	2000	55	60



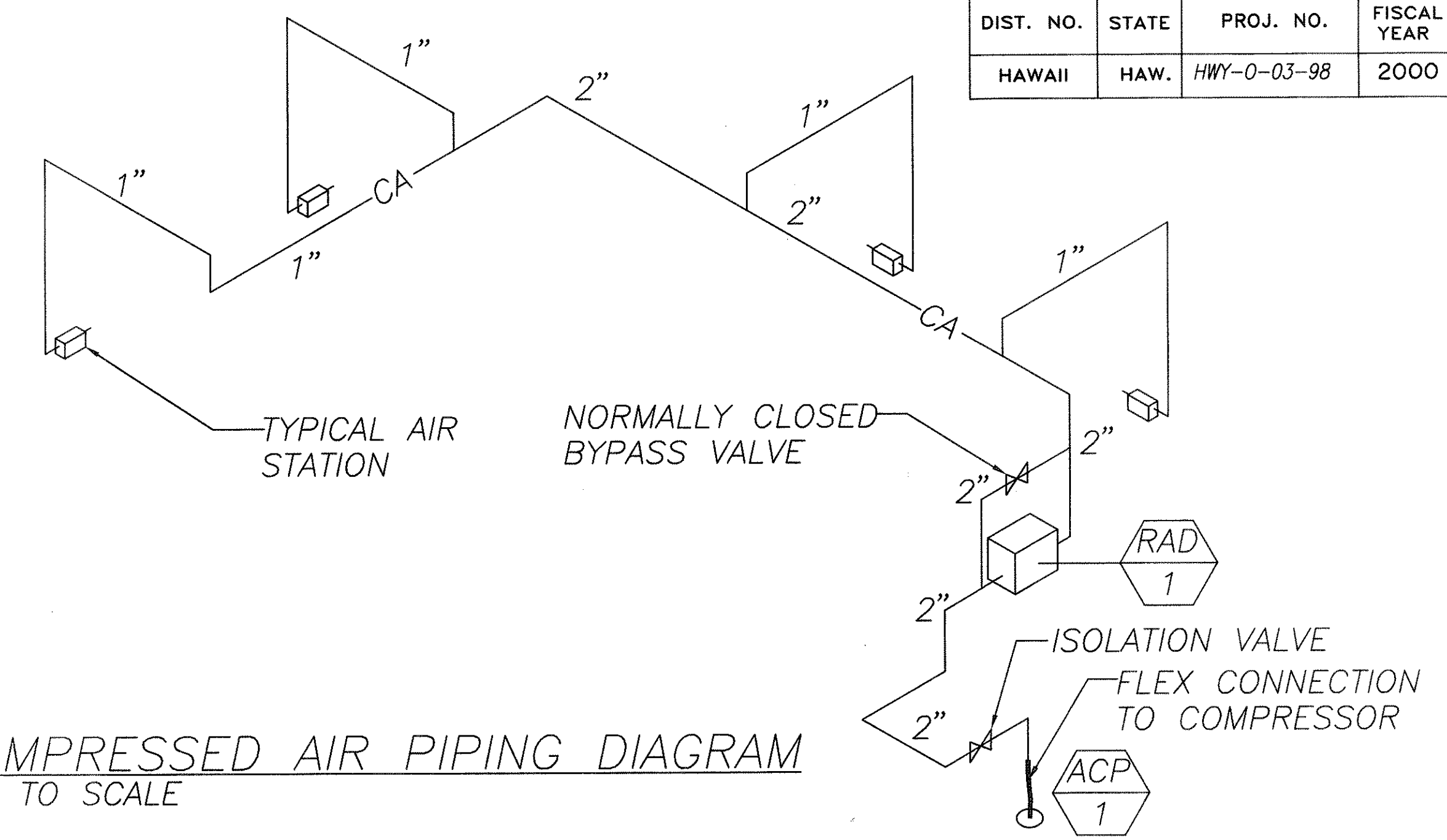
FAN COIL UNIT MOUNTING DETAIL  
NOT TO SCALE



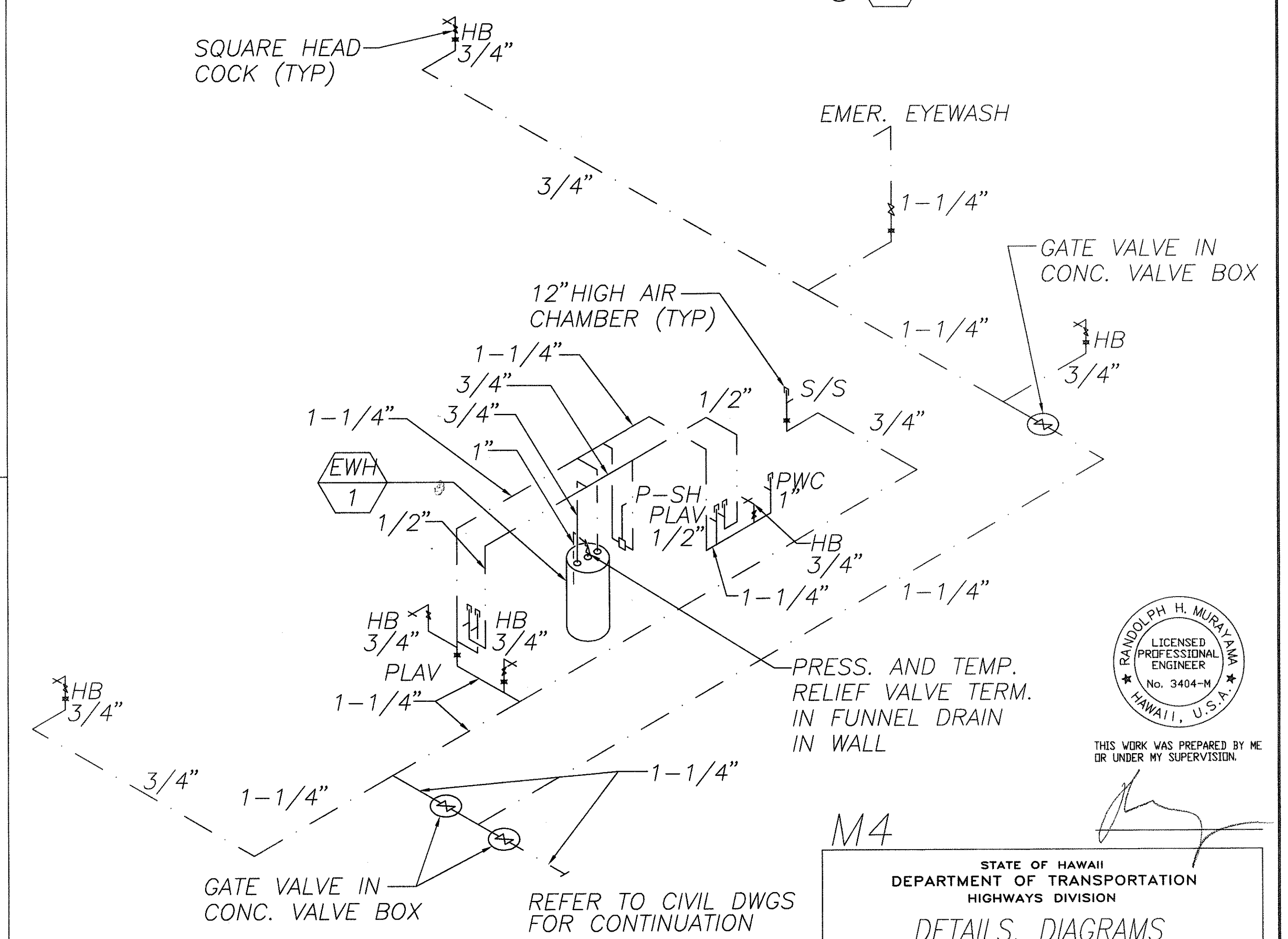
CONDENSING UNIT MOUNTING DETAIL  
NOT TO SCALE



TYPICAL AIR STATION DETAIL  
NOT TO SCALE

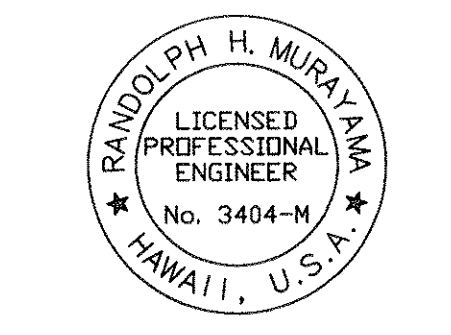


COMPRESSED AIR PIPING DIAGRAM  
NOT TO SCALE



WATER PIPING DIAGRAM  
NOT TO SCALE

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	04/00
QUANTITIES BY	DESIGNED BY	04/00
CHECKED BY	RAM	04/00



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

M4

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

DETAILS, DIAGRAMS

HAUULA BASEYARD  
IMPROVEMENTS  
Project No. HWY-0-03-98  
Scale: AS SHOWN Date: APR 2000

SHEET No. M4 OF 60 SHEETS