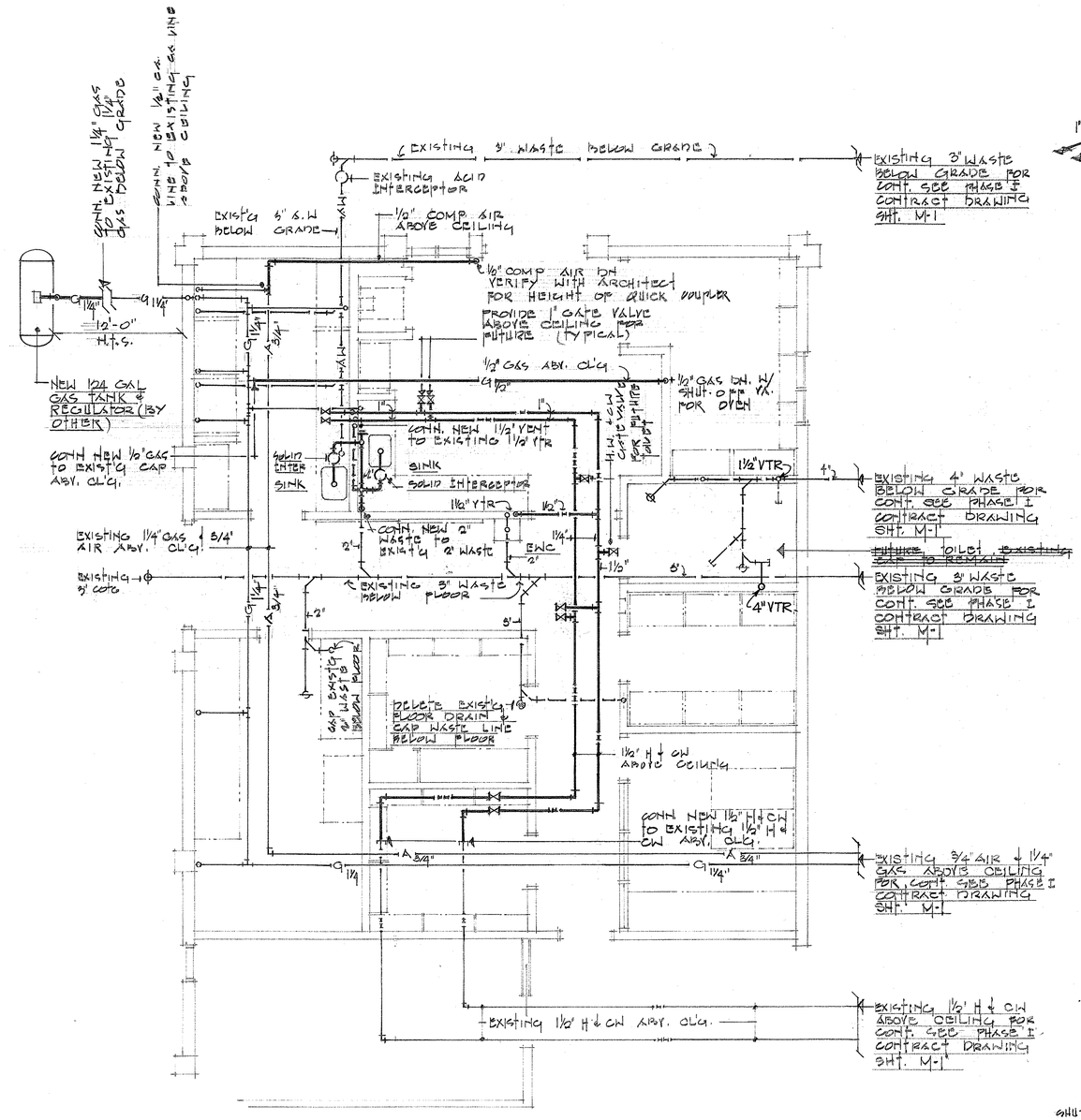
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	RF-H-02-79	1981	14	20

NOTE:

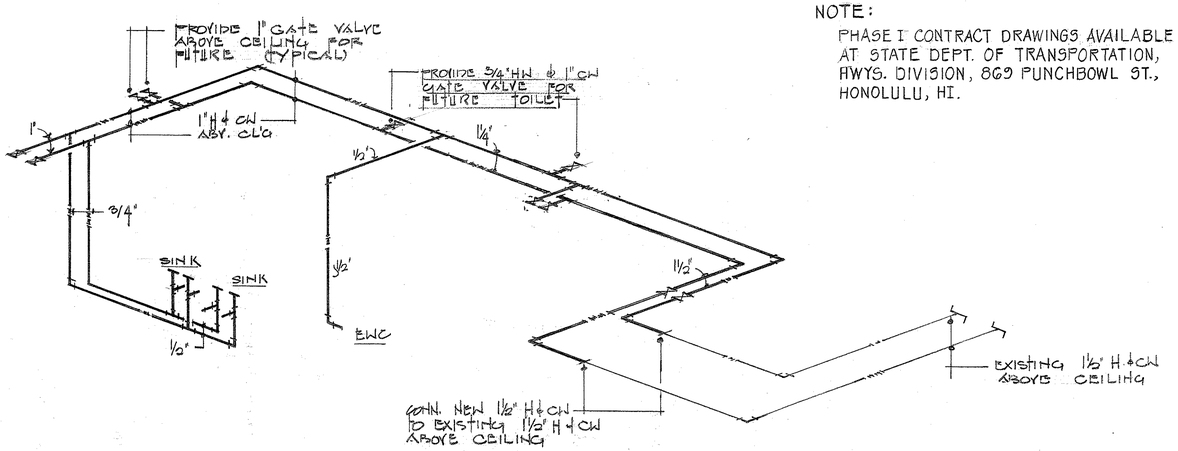
PHASE I CONTRACT DRAWINGS AVAILABLE AT STATE DEPT. OF TRANSPORTATION, HWYS. DIVISION, 869 PUNCHBOWL ST., HONOLULU, HI.



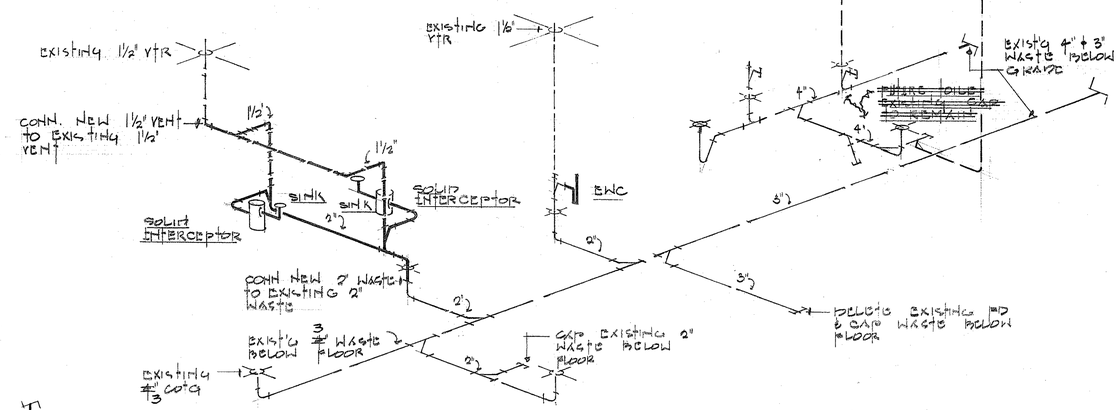
DETAIL FLOOR PLAN

MATERIAL TESTING AREA

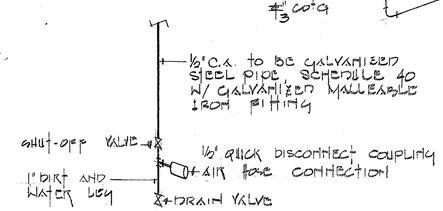
SCALE: 1/4" = 1'-0"



WATER DIAGRAM



SANITARY DIAGRAM



COMP. AIR PIPING DETAIL

ORIGINAL PLAN

SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
DESIGNED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	

KENNETH J. THOM REGISTERED PROFESSIONAL ENGINEER No. 2057-E HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

KENNETH THOM ASSOCIATES, LTD. Mechanical Engineers

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL PLUMBING FLOOR PLAN - MATERIAL TESTING AREA AND DIAGRAMS

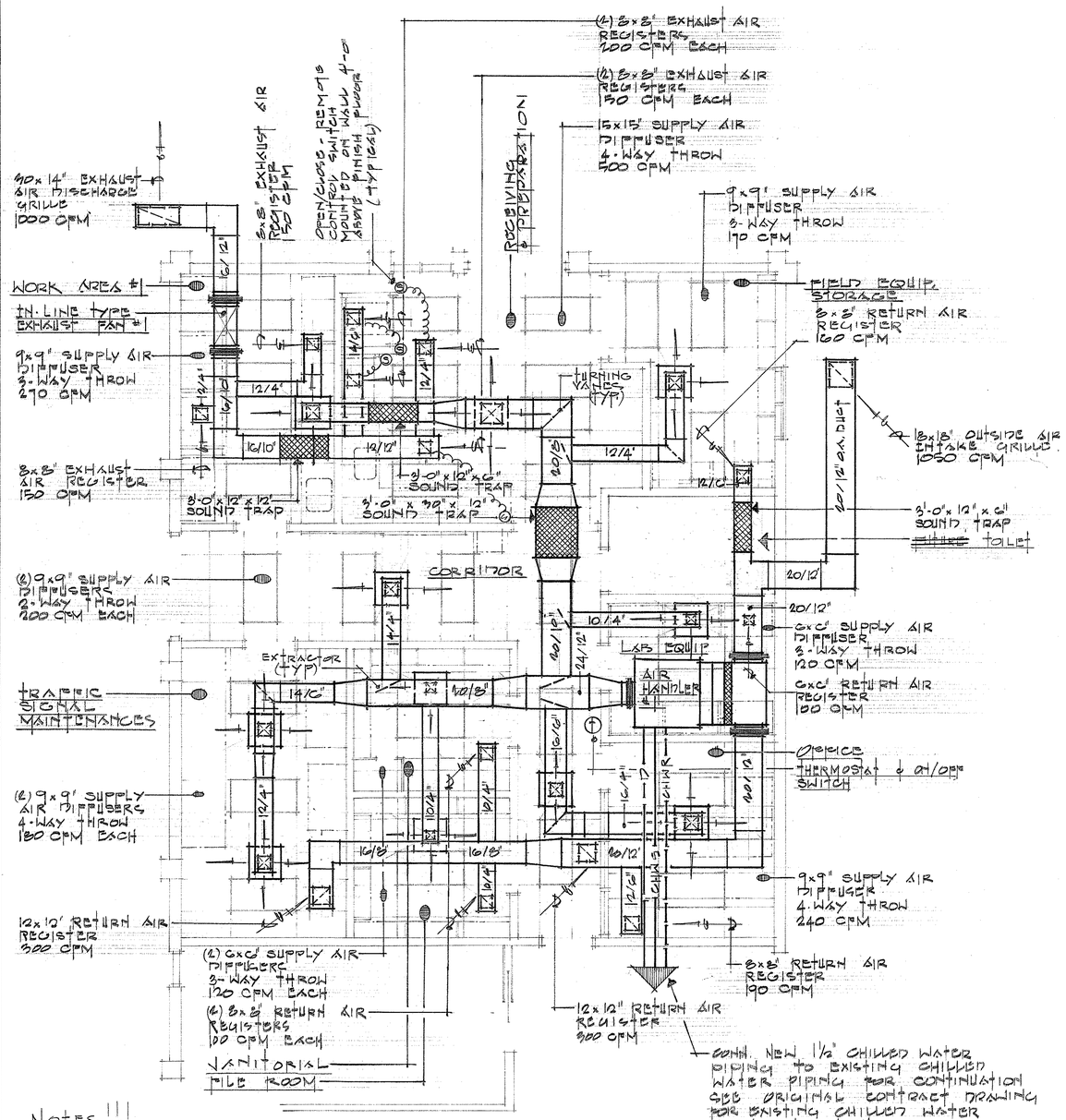
MAUI DISTRICT BASEYARD
PHASE III

KAHALUI, MAUI, HAWAII
PROJECT NO. LT-M-02-78
NISHIMURA, OKI & GANTO INC.

SHEET NO. M-1 OF 3 SHEETS

PRINTED ON NO. 1000H CLEARPRINT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	U-M-02-1A	1981	15	20



NOTES!!!

1. ALL SIZES SHOWN FOR CEILING DIFFUSERS ARE NECK SIZES.
2. ALL SUPPLY AIR DIFFUSERS FACE TO BE 24" SQUARE.
3. ALL DUCTWORK PENETRATING CEILING SHALL BE EQUIPPED WITH FIRE DAMPERS.

DETAIL FLOOR PLAN
MATERIAL TESTING AREA
SCALE: 1/4" = 1'-0"

EQUIPMENT SCHEDULE

AIR HANDLER

TYPE: HORIZONTAL, DRAW-THRU, CEILING HUNG UNIT, COMPLETE WITH FACE & BY-PASS DAMPER, FAN SECTION, COPPER TUBES & ALUMINUM FINS, WATER COILS, FILTERS, DRIP PAN, MOTOR, DRIVES & VIBRATION ISOLATORS, INSULATED SECONDARY DRIP PAN TO BE INSTALLED UNDER VALVE. "CARRIER" MODEL 39 TO 006 OR APPROVED EQUAL.

CAPACITY:

UNIT No	S.A. CFM	TOTAL SP IN OF H2O	FAN RPM	COIL FACE VEL. - FPM	H2O QUANTITY ENT. @ 44°F	H2O P.D. THRU COIL - FT H2O	ENT. AIR TEMP °F DB	ENT. AIR TEMP °F WB	MIN. CTH CAP BTU/HR	MOTOR H.P.	REMARK
1	~~4,500~~ 4000	~~2.5~~ 2.0"	700	~~[illegible]~~ 429	2.0	7.0	~~80.5~~ 80	69.0	99,190	~~3~~ 2.5	

POWER: ~~460~~ 208 V/3Φ/60

EXHAUST FAN:

TYPE: CENTRIFUGAL, IN-LINE CEILING HUNG BELT-DRIVEN EXHAUST FAN COMPLETE WITH MOTOR, DRIVES & VIBRATION ISOLATOR "GREENHECK" MODEL SQB-10-4 OR APPROVED EQUAL.

CAPACITY:

FAN NO	LOCATION	CFM	S.P.	RPM	TIP SPEED	MOTOR H.P.	REMARKS
1	WORK AREA #1	1000	½"	~~1725~~ 1725	~~3873~~ 3873	¼	

POWER: 115V/1Φ/60

KENNETH J. THOM
REGISTERED PROFESSIONAL ENGINEER
No. 2057-E
HAWAII, U.S.A.
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
KENNETH THOM ASSOCIATES, LTD.
Mechanical Engineers

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAIL AIR CONDITIONING FLOOR PLAN - MATERIAL TESTING AREA & EQUIP. SCH.

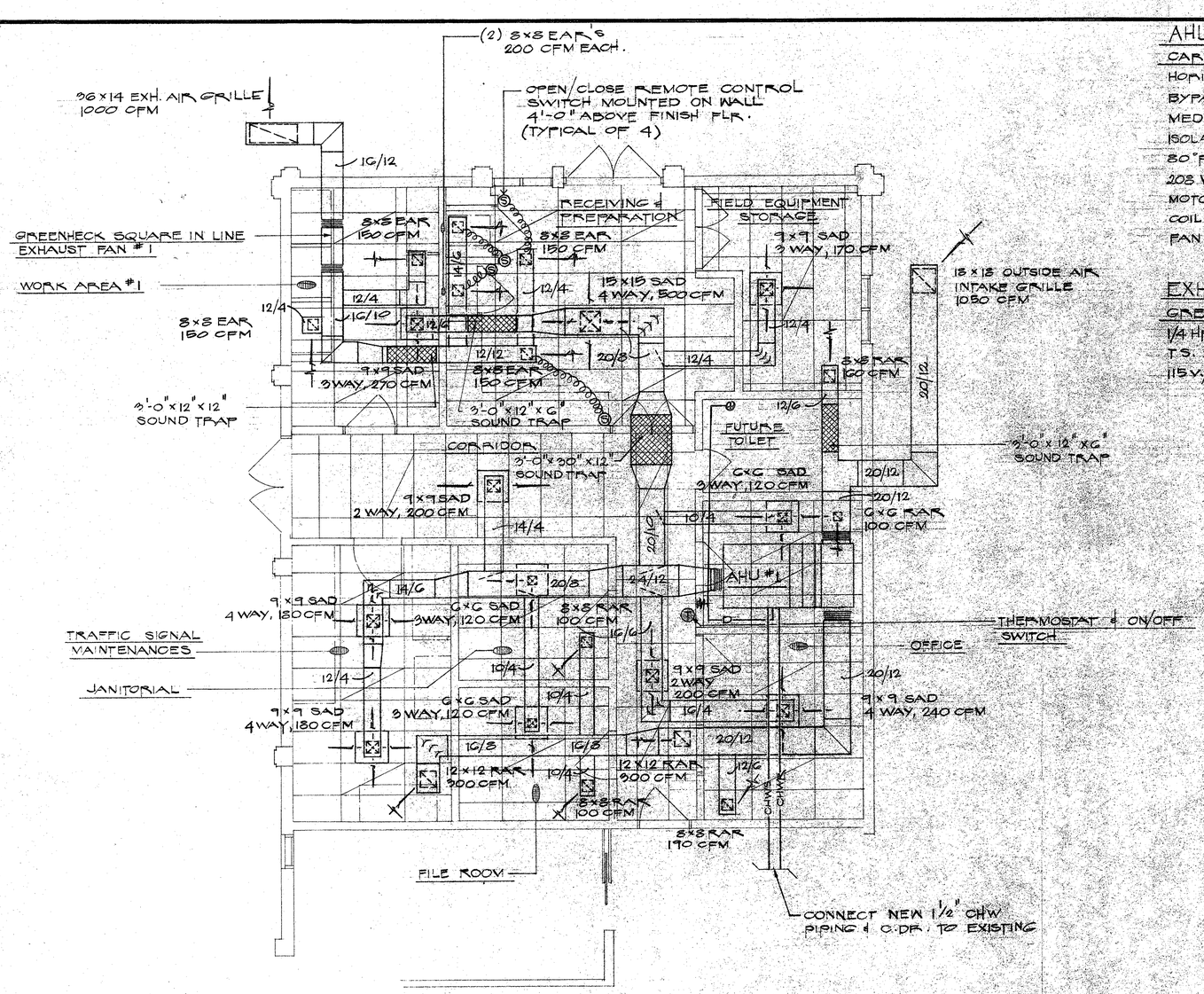
MAUI DISTRICT BASEYARD
PHASE III

KAHALUUI, MAUI, HAWAII
PROJECT No. U-M-02-78
NISHIMURA, IKI & SANTO INC. APRIL, 1981

SHEET No. M-2 OF 3 SHEETS

ORIGINAL PLAN | NOTE BOOK | No.
SURVEY PLOTTED BY:
DRAWN BY:
TRACED BY:
DESIGNED BY:
QUANTITIES BY:
CHECKED BY:
DATE:

PRINTED ON NO. 1000H CLEARPRINT



AIR CONDITIONING AND VENTILATION PLAN

MATERIAL TESTING AREA

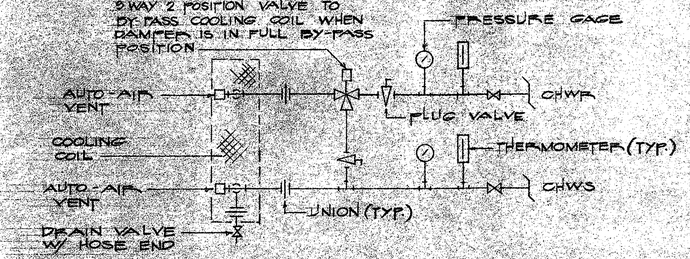
SCALE: 1/4"=1'-0"

AHU #1

CARRIER CENTRAL STATION AIR HANDLING UNIT MODEL 39DA-060
HORIZONTAL DRAW THRU, CEILING HUNG UNIT, WITH FILTER BOX,
BYPASS PLENUM SECTION, FACE & BYPASS DAMPER SECTION,
MEDIUM BYPASS DUCT, DRIVE PACKAGE, FAN MOTOR, VIBRATION
ISOLATORS, BASE PAN, 2300 CFM, 429 FPM-COIL FACE VEL., @ 2" T.S.P.
80°F EDB TEMP, 67°F EWB TEMP., 700 FAN RPM, 2 HP MTR.
208 V./3Ø/60HZ., 20 GPM.
MOTOR POSITION: FRONT LEFT HAND
COIL CONN.: LEFT HAND
FAN PITCH: THD

EXHAUST FAN #1

GREENHECK SQUARE IN LINE CENTRIFUGAL FAN MODEL SQB-10
1/4 HP, 1725 RPM, 115V/1Ø/60HZ., 1000 CFM, 1/2" SP, 1330 FAN RPM
T.S. 3373, WITH BELT GUARD, RUBBER IN SHEAR HANGER
115V/1Ø/60HZ.



AIR HANDLER PIPING DIAGRAM

AIR COND. "AS-BUILT" PLANS

All changes made during construction have been incorporated on these plans except changes in the original theoretical quantities

Larry J. Baker
Resident Engineer

AS BUILT DRAWINGS 1-21-82

MAUI DISTRICT BASEYARD
PHASE III
KAHULUI, MAUI, HAWAII

GENERAL CONTRACTOR ARIZUMI BROTHERS, INC.

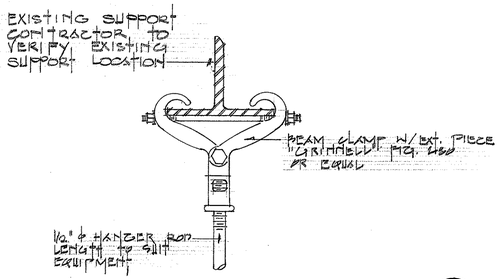
SUBMITTED BY
OAHU PLUMBING & SHEET METAL, LTD.
OAHU AIR CONDITIONING, CO.
938 KOHOU ST. HONOLULU, HAWAII

JOB NO. 7151021 | DATE 10-6-81 | M-3A SHEET NO 2 OF 2

THIS TRACING PREPARED DURING "AS-BUILT" POSTINGS

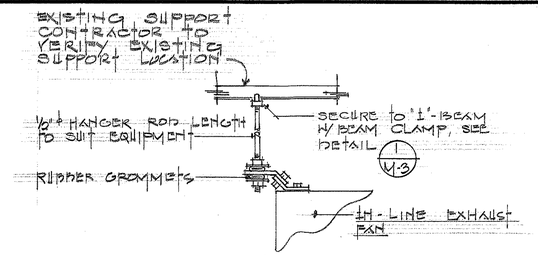
5S-1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	F-H-02-19	1981	16	20



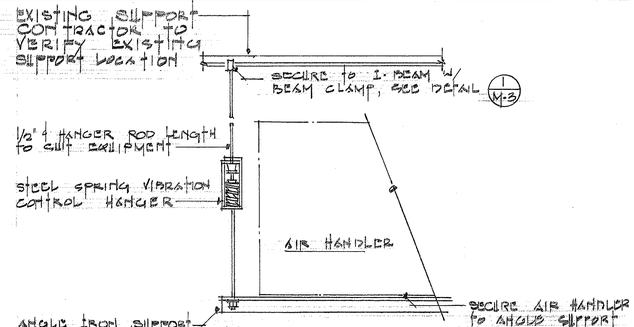
HANGER SUPPORT DETAIL (1 / M-3)

NO SCALE:



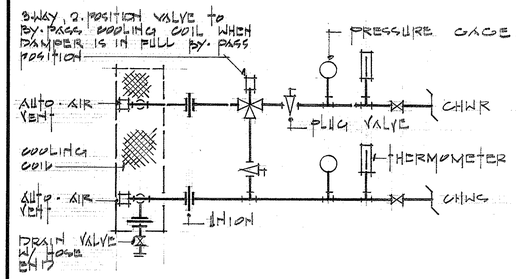
EXHAUST FAN MOUNTING DETAIL (2 / M-3)

NO SCALE:

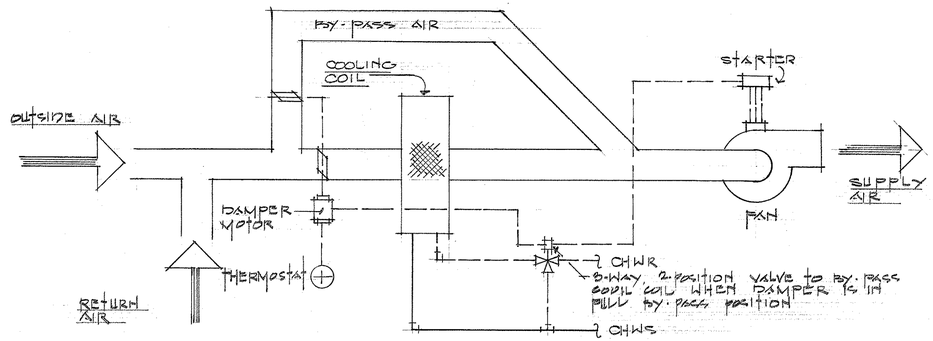


AIR HANDLER SUPPORT DETAIL (3 / M-3)

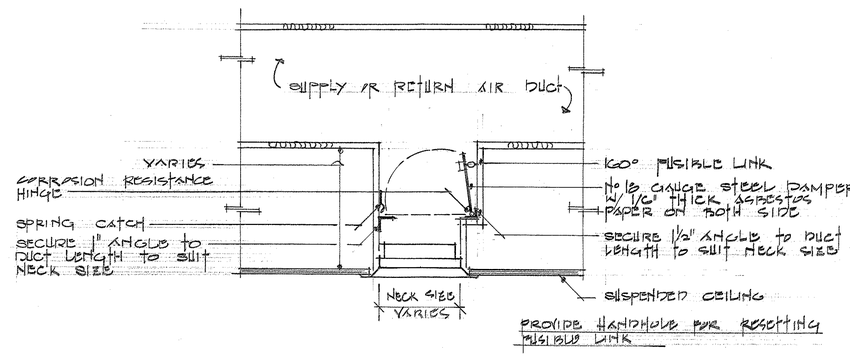
NO SCALE



AIR HANDLER PIPING DIAGRAM

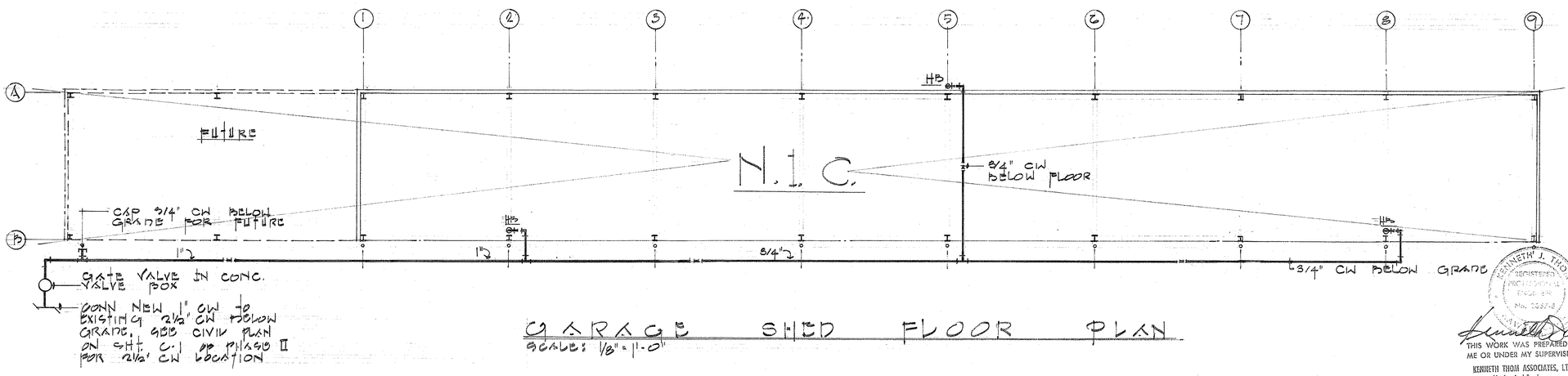


AIR HANDLER CONTROL DETAIL



TYPICAL FIRE DAMPER DETAIL (4 / M-3)

NO SCALE



GARAGE SHED FLOOR PLAN

SCALE: 1/8" = 1'-0"

ORIGINAL PLAN | NOTE BOOK | No.

SURVEY PLOTTED BY: DATE
DRAWN BY:
TRACED BY:
DESIGNED BY:
QUANTITIES BY:
CHECKED BY:

KENNETH L. THOM REGISTERED PROFESSIONAL ENGINEER No. 1057-E

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
KENNETH THOM ASSOCIATES, LTD.
Mechanical Engineers

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

AIR CONDITIONING & VENTILATION DETAILS

MAUI DISTRICT BASEYARD
PHASE III

KAHULUI MAUI HAWAII
PROJECT No. I-M-02-7B
NISHIMURA, OKI & SANTO, INC. APRIL, 1981

SHEET No. M-3 OF 6 SHEETS

PRINTED ON NO. 1000H CLEARPRINT