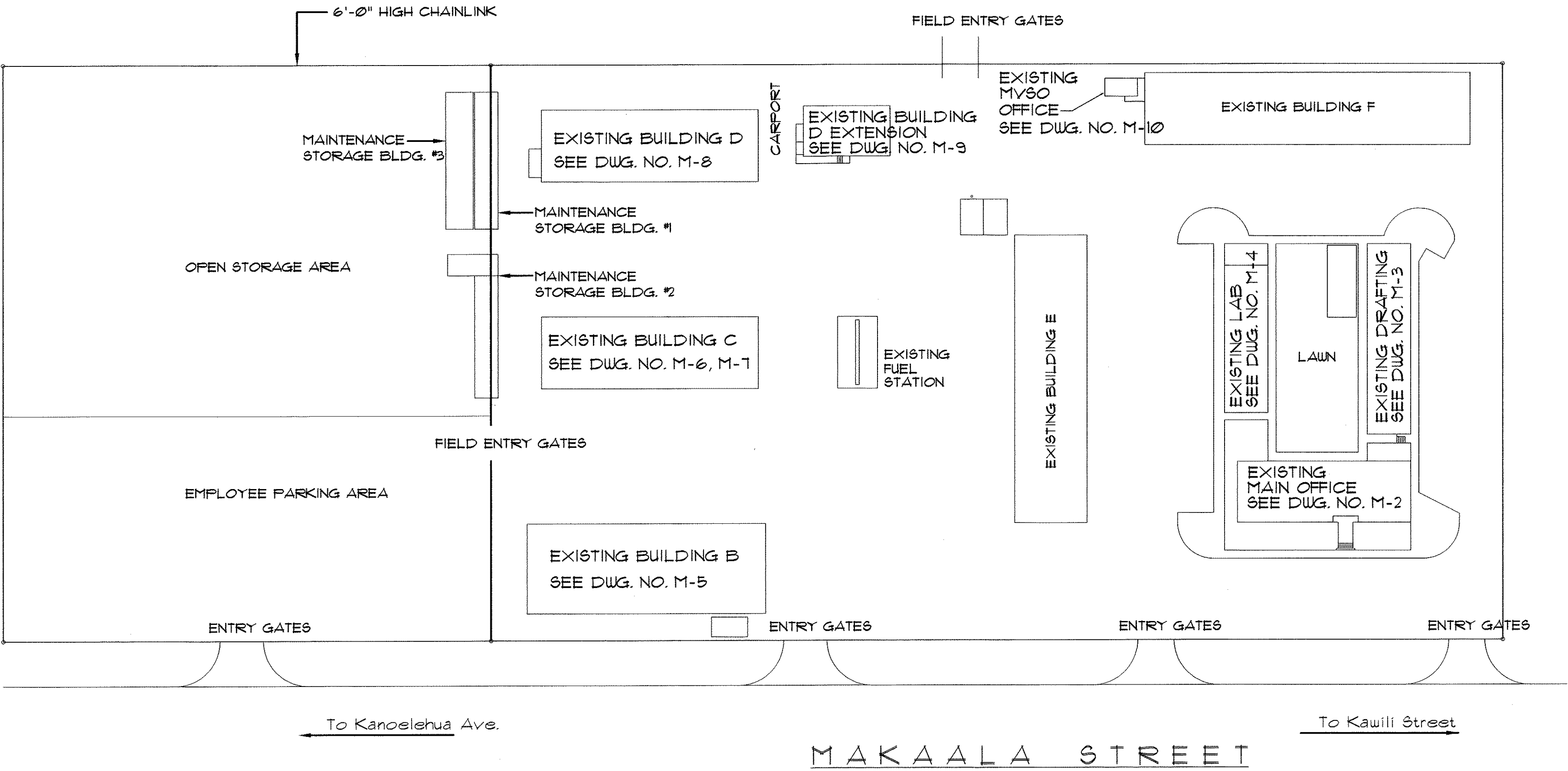


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-H-04-99M	2000	20	73

GENERAL NOTES - MECHANICAL

1. THE SCOPE OF MECHANICAL WORK INCLUDES DEMOLITION OF EXISTING A/C SYSTEMS, SUBSEQUENT BLDG. PATCH & REPAIR WORK, & INSTALLATION OF NEW A/C SYSTEMS, DUST COLLECTION SYSTEM, LAB EXHAUST SYSTEMS, & WELDING EXHAUST SYSTEM:
- a. DEMOLITION WORK SHALL INCLUDE REMOVAL OF ALL EXISTING A/C SYSTEM COMPONENTS & RELATED HARDWARE IN THE MAIN OFFICE, DRAFTING, LAB, BUILDING B, BUILDING D, BUILDING D EXTENSION, AND MYSO OFFICE INCLUDING ACCU, AHU, WINDOW UNITS, REFR. & COND. PIPING, & CONTROLS & CONTROL WIRING. DEMOLITION WORK SHALL ALSO INCLUDE REMOVAL OF ALL EXISTING CONCRETE PADS WHICH ARE NOT TO BE RE-USED FOR NEW ACCU EQPT. A CONCRETE PAD MAY BE RE-USED FOR NEW ACCU EQPT. ONLY IF IT IS A MONOLITHIC FOUR WITH NO CRACKS, IT IS LOCATED WHERE THE NEW EQPT. IS TO BE LOCATED, IT IS OF SUFFICIENT SIZE TO PROVIDE REQUIRED LATERAL SUPPORT AND MINIMUM CLEARANCES, AND IT IS APPROVED FOR RE-USE BY THE ENGINEER.
- b. PATCH & REPAIR WORK SHALL INCLUDE ALL WORK AS REQ'D TO REPAIR & PAINT BLDGS. & SURFACES WHERE A/C EQPT. IS TO BE REMOVED INCLUDING ALL BLDG. STRUCTURAL COMPONENTS, WALLS, FLOORS, ROOFS, CEILING, PAVED AREAS & OTHER SURFACES TO MATCH EXISTING.
- c. INSTALLATION WORK OF NEW A/C SYSTEMS SHALL INCLUDE PROVIDING, INSTALLING, & TESTING & BALANCING OF ALL NEW A/C SYSTEMS IN THE MAIN OFFICE, DRAFTING, LAB, BUILDING B, BUILDING C, BUILDING D, BUILDING D EXTENSION, & MYSO OFFICE.
- d. INSTALLATION WORK OF THE NEW DUST COLLECTION SYSTEM IN THE BUILDING C SHALL INCLUDE PROVIDING, INSTALLING, & TESTING & BALANCING OF NEW DUST COLLECTION SYSTEM INCLUDING CYCLONE DUST COLLECTOR UNIT 55 GALLON DRUM DUST STORAGE SYSTEM, ALL REQ'D DUST COLLECTION COMPONENTS, REQ'D DUCTWORK, & DUCT SILENCER SYSTEM INCLUDING STRAIGHT & ELBOW ACCOUSTICAL COMPONENTS, AND ALL RELATED HARDWARE TO PROVIDE A COMPLETE SYSTEM.
- e. INSTALLATION WORK OF THE NEW EXHAUST SYSTEMS IN THE LAB AND BUILDING B AUTO SHOP WELDING AREA SHALL INCLUDE PROVIDING, INSTALLING, & TESTING & BALANCING OF NEW EXHAUST SYSTEMS AS SHOWN ON THESE DRAWINGS.
2. LEAD-CONTAINING PAINT HAS BEEN ENCAPSULATED UNDER NON-LEAD PAINT ON THE INTERIOR SURFACES OF EXISTING BLDGS. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS DURING DEMOLITION & CONSTRUCTION WORK TO INSURE SAFE WORKING ENVIRONMENTS & TO MEET ALL GOVERNING HEALTH & SAFETY CODES.

MECHANICAL ABBREVIATIONS AND SYMBOLS			
SYMBOL	DESCRIPTION	ABBREVIATION	DESCRIPTION
CD	CONDENSATE DRAIN PIPING	KW	KILOWATT
CHWS	CHILLED WATER SUPPLY	LBS.	POUNDS
CHWR	CHILLED WATER RETURN	MOCF	MAXIMUM OVERLOADS CIRCUIT PROTECTION
TH	THERMOSTAT	MAX.	MAXIMUM
		MIN.	MINIMUM
	DRAWING NUMBER	MCA	MINIMUM CIRCUIT AMPS
	SHEET NUMBER	NO.	NUMBER
		NO.	NORMALLY OPEN
ABBREVIATION	DESCRIPTION	O.A.	OUTSIDE AIR
		OAG	OUTSIDE AIR GRILLE
AFF.	ABOVE FINISHED FLOOR	PRESS	PRESSURE
A	AIR	PH	PHASE
A/C	AIR CONDITIONING	P.O.C.	POINT OF CONNECTION
AUX.	AUXILIARY	RPM	REVOLUTION PER MINUTE
BTUH	BRITISH THERMAL UNITS PER HOUR	RAR	RETURN AIR REGISTER
BLDG.	BUILDING	RA	RETURN AIR
CFM	CUBIC FEET PER MINUTE	REQ'D.	REQUIRED
CLG	CEILING	SA	SUPPLY AIR
CONC	CONCRETE	SAR	SUPPLY AIR REGISTER
CD	CEILING DIFFUSER	SCH.	SCHEDULE
CAP.	CAPACITY	REF.	REFRIGERANT
DIA. Ø	DIAMETER	RAG	RETURN AIR GRILLE
DN.	DN.	SUCT	SUCTION
DB	DRY BULB	TA	THROW AWAY
DWGS.	DRAWINGS	TC	TIME CLOCK
EFF.	EFFICIENCY	TEMP	TEMPERATURE
EA	EACH	TG	TRANSFER GRILLE
EAR	EXHAUST AIR REGISTER	TYP.	TYPICAL
EXIST.	EXISTING	THK	THICK
EXH.	EXHAUST	T-STAT	THERMOSTAT
°F	DEGREE FAHRENHEIT	THK	THICK
FPI	FINS PER INCH	T-STAT	THERMOSTAT
FLEX. CONN.	FLEXIBLE CONNECTION	UV	UNIT VENTILATOR
FLR	FLOOR	V	VOLTS
FFM	FEET PER MINUTE	VD	VOLUME DAMPER
GA.	GAUGE	WB	WET BULB
GALV.	GALVANIZED	WT	WEIGHT
GALS.	GALLONS	W/	WITH
HP	HORSEPOWER		
HZ	HERTZ		



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 9.3, 10.3 & 11.3

[Signature]
Signature
NIMR Y. TAMIMI
Name (Print)
MECHANICAL ENGINEER
Title
7936-M
PE or Arch. License No.

DATE	_____
SURVEY PLATTED BY	_____
DRAWN BY	_____
TRACED BY	_____
DESIGNED BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
No.	_____

SITE PLAN - EXISTING CONDITIONS
NOT TO SCALE

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

[Signature]

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**SITEPLAN, GENERAL NOTES,
LEGEND - MECHANICAL**
**HILO BASEYARD
IMPROVEMENTS**
PROJECT NO. HWY-H-04-99M
Scale: Noted Date: May 2000
DWG. No. **M-1** SHEET No. 1 OF 1 SHEETS