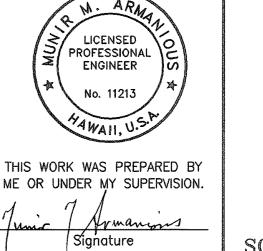
LEGEND				
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	
8′-6″ A 2	LIGHTING FIXTURE IDENTIFIER. "A" INDICATES FIXTURE TYPE, 8'-6" INDICATES MOUNTING HEIGHT, 2 INDICATES NUMBER OF FIXTURES.		PANELBOARD TELEPHONE OR EQUIPMENT CABINET, SIZE AS NOTED.	
A-3a;	FLUORESCENT LIGHTING FIXTURE, CEILING MOUNTED. DESIGNATION INDICATES PANEL AND CIRCUIT FEEDING THE FIXTURE (PNL A, CKT 3). LOWER CASE LETTER INDICATES CONTROLLING SWITCH, SOLID INDICATES BATTERY.		MOTOR STARTER  COMBINATION MOTOR STARTER	
⊬¤;¤	COMPACT FLUORESCENT OR H.I.D. LIGHTING FIXTURE. WALL MOUNTED; CEILING MOUNTED.		DISCONNECT SWITCH - 30/NF/2PSN/240/3R UNLESS OTHERWISE NOTED. FRAME SIZE/FUSE SIZE/POLES/VOLTS/NEMA ENCLOSURE	
	POLE MOUNTED HID STREET/ROADWAY/PARKING LOT LIGHTING FIXTURES		TRANSFORMER	
⊗ ;⊢⊗	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS WHERE INDICATED SHADED AREA INDICATES EXIT FACE — CEILING MOUNTED; WALL MOUNTED	С	LIGHTING CONTACTOR	
<b>7</b>	EMERGENCY LIGHTING FIXTURE	В	ENCLOSED CIRCUIT BREAKER	
\$ .	SINGLE POLE SW. LETTER WHERE SHOWN CORRESPONDS WITH ITEM(S) CONTROLLED.	<u>-</u>  0	PHOTOCELL, MOUNTED +12" ABOVE FINISHED ROOFLINE.	
\$3a \$m	THREE WAY SW. LETTER WHERE SHOWN CORRESPONDS WITH ITEM(S) CONTROLLED.  MANUAL MOTOR STARTER		PUSH-BUTTON OR SELECTOR SWITCH	
\$HOA	HAND-OFF-AUTO SW			
Φ <sup>+42</sup>	DUPLEX RECEPTACLE, 20A, GROUNDING TYPE. DESIGNATION INDICATES PANEL		FLEXIBLE CONDUIT CONNECTION  CONDUIT BENT DOWN OR AWAY	
\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	DUPLEX RECEPTACLE, 20A, GROUNDING TYPE. DESIGNATION INDICATES PANEL AND CIRCUIT FEEDING RECEPTACLE (PNL A, CKT 2). +42" INDICATES MOUNTING HEIGHT (SHOWN ONLY IF OTHER THAN STANDARD HEIGHT OF 15" AFF).		CONDUIT BENT UP OR TOWARD	
φ	SIMPLEX RECEPTACLE. SIZE AND TYPE AS NOTED.	ک	GROUND WIRE WITH CADWELD CONNECTION PIGTAILED 18" ABOVE FINISHED FLOOR	
	GROUND FAULT CIRCUIT INTERRUPTING (GFI) RECEPTACLE	— - G-	#4/0 BARE COPPER	
	SPECIAL PURPOSE RECEPTACLE. SINGLE, 240 VOLT, 3 PHASE, 30 AMPERE.	<u> </u>	GROUND WIRE WITH BOLTED CONNECTION #4/0 BARE COPPER	
	TELEPHONE OUTLET  MOTOR	<b>®</b>	GROUND ROD AND WELL	
H_O; O	JUNCTION BOX. WALL MOUNTED; CEILING MOUNTED		UNDERGROUND CONDUIT OR DUCTBANK CONCRETE ENCASED	
	FAN	-// <sub>A-6</sub>	HOMERUN TO PNLBD CONCEALED IN CEILING, WALL OR FLOOR, PANEL"A"-CKT 6. HATCH MARKS INDICATE NUMBER OF CONDUCTORS. NO HATCH MARKS INDICATES 2 CONDUCTORS. IN ADDITION TO CONDUCTORS INDICATED, PROVIDE GROUND IN ALL CONDUITS PER NEC. MINIMUM CONDUIT SIZE SHALL BE 3/4".	
$\otimes$	INSTRUMENTATION OR CONTROL DEVICE	A-6	CONDUCTORS. IN ADDITION TO CONDUCTORS INDICATED, PROVIDE GROUND IN ALL CONDUITS PER NEC. MINIMUM CONDUIT SIZE SHALL BE 3/4".	
	NEW EQUIPMENT		HOMERUN TO PANELBOARD IN EXPOSED CONDUIT.	
	EXISTING EQUIPMENT			
100 AF	EXISTING EQUIPMENT TO BE REMOVED		NEW HANDHOLE OR MANHOLE	
100 AF 70 AT	CIRCUIT BREAKER: AF INDICATES FRAME SIZE; AT INDICATES TRIP SETTING.		EXISTING MANHOLE OR HANDHOLE	
	POTENTIAL TRANSFORMER	KMH	KILOWATTHOUR METER	
4X	NEMA ENCLOSURE TYPE - STAINLESS STEEL, TYPE 316/SS316	G	ENGINE GENERATOR	

## GENERAL NOTES

- 1. PLANS DO NOT INDICATE COMPLETE EXISTING ELECTRICAL CONDITIONS. CONTRACTOR SHALL VISIT JOBSITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND EXTENT OF DEMOLITION AND NEW WORK PRIOR TO THE START OF WORK.
- 2. PRIOR TO THE START OF WORK, CONTRACTOR SHALL VISIT JOBSITE AND REPORT ANY DISCREPANCIES AND/OR DIFFERENCES IN DRAWING, IN RESPECT TO EXISTING CONDITIONS TO ENGINEER AND/OR OWNER.
- 3. CONTRACTOR SHALL RESOLVE ALL DISCREPANCIES AND QUESTIONS PRIOR TO THE START OF WORK. NO EXTRA PAYMENT SHALL BE ALLOWED ON ACCOUNT OF WORK MADE NECESSARY BY CONTRACTOR'S FAILURE TO VISIT THE SITE AND/OR FAILURE TO RESOLVE DISCREPANCIES OR QUESTIONS.
- 4. ALL POWER OUTAGES SHALL BE COORDINATED AND APPROVED BY THE OWNER, OUTAGES SHALL BE SCHEDULED AND LIMITED PER THE OWNER REQUIREMENTS.
- 5. BEFORE ANY ELECTRICAL WIRING IS CUT, CONTRACTOR SHALL VERFIY USAGE OF WIRING TO INSURE THAT REQUIRED SERVICES ARE NOT DISCONNECTED.
- 6. RETURN ALL SALVAGEABLE APPARATUS, AS DETERMINED BY THE OWNER OR HIS REPRESENTATIVE, TO A SITE DESIGNATED BY THE OWNER OR HIS REPRESENTATIVE, AT NO ADDITIONAL COST TO THE OWNER. DISPOSE OF ALL UNWANTED MATERIALS.
- 7. CONTRACTOR SHALL "TONE" FOR EXISTING UTILITIES NOT SPECIFICALLY SHOWN ON PLANS PRIOR TO EXCAVATION AND TRENCHING.
- 8. DETAILS ARE INTENDED TO SHOW METHOD AND MANNER OF ACCOMPLISHING WORK. MINOR MODIFICATION MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS TO BE INCLUDED AS PART OF THE WORK.
- 9. EXISTING WIRING AND DUCTS SHOWN ARE TAKEN FROM BEST AVAILABLE AS—BUILT DRAWINGS FROM PREVIOUS CONTRACTS. VERIFY THE ACTUAL NUMBER OF THE WIRES, CONDUIT'S CONDITION AND ROUTING OF UNDERGROUND DUCTS AND NOTIFY CONTRACTING OFFICER OF ANY DISCREPANCIES.

- 10. PROVIDE PULLING NYLON ROPE IN ALL SPARE CONDUITS. ALL CONDUIT ENDS AT HANDHOLES SHALL BE SEALED WITH DUCT SEAL. SPARE DUCTS SHALL BE PLUGGED PER SPECIFICATIONS.
- 11. SEPARATIONS BETWEEN SUPPLY AND COMMUNICATIONS CONDUIT SYSTEMS.
  CONDUIT SYSTEMS TO BE OCCUPIED BY COMMUNICATIONS CONDUCTORS SHALL BE
  SEPARATED FROM CONDUIT SYSTEMS TO BE USED FOR SUPPLY SYSTEMS BY:
  - a. 3" (75 MM) OF CONCRETE
  - b. 4" (100 MM) OF MASONRY
  - c. 12" (300 MM) OF WELL TAMPED EARTH
    AS PER NATIONAL SAFETY ELECTRIC CODE.
    OR AS NOTED IN THE PLANS.
- 12. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING PIPING AND CONDUITS IN THE PATH OF NEW UNDERGROUND DUCTS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO PIPING AND CONDUIT RESULTING FROM THE FAILURE TO BECOME FAMILIAR WITH EXISTING CONDITIONS.
- 13. ALL A.C. AND CONCRETE PAVEMENT TO BE TRENCHED FOR DUCTBANKS SHALL BE "SAW-CUT" TO THE REQUIRED WIDTH PRIOR TO REMOVAL. RESTORATION OF PAVEMENT SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR THE STATE OF HAWAII".
- 14. ALL ITEMS SPECIFIED AS NEMA 4X SHALL BE STAINLESS STEEL TYPE 316 (SS316) UNLESS OTHERWISE INDICATED. ALL C-CHANNELS AND FASTENING HARDWARE: SCREWS, NUTS, BOLTS, WASHERS, ETC SHALL BE SS 316. ALL EXPOSED FACTORY PROVIDED HARDWARE NOT SS 316 SHALL BE REPLACED WITH SS 316 HARDWARE.
- 15. <u>HAZARDOUS LOCATIONS:</u> WORK IN HAZARDOUS LOCATIONS, AS DEFINED BY NFPA 70 AND 820 SHALL BE PERFOMED IN STRICT ACCORDANCE WITH NFPA 70 FOR PARTICULAR 'CLASS", "DIVISION" AND "GROUP" OF HAZARDOUS LOCATIONS INVOLVED. PROVIDE CONDUIT AND CABLE SEALS WHERE REQUIRED BY NFPA 70. ELVEN THOUGH SEALS ARE NOT INDICATED ON DRAWINGS. CONDUIT SHALL HAVE TAPERED THREADS.

A, AMP ABBR ANCHOR BOLT ACU AIR CONDITIONING UNIT AFF ABOVE FINISHED FLOOR ANTENNA ATS AUTOMATIC TRANSFER SWITCH AWG AMERICAN WIRE GAUGE BC BARE COPPER BLDG BUILDING BTRY BATTERY BOT BOTTOM  CENTER LINE CKT CIRCUIT BREAKER CKT CIRCUIT BREAKER CKT CIRCUIT CNDCT CONDUCTOR CND, C CONDUIT COMB COMBINATION CONT CONTROL CONT CONTROL CONC CONCRETE CU COPPER CH AND AMERICAN WIRE CU COPPER CND, C CONVENIENCE CU COPPER CND, C CONVENIENCE CU COPPER CND CONVENIENCE CU COPPER CND CONTECTION CON CONTECTION CON CONTECTION CON CONTECTION CON CONPECTION CON CONVENIENCE CU COPPER CND CONPECTION CON CON	
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DISC   DISCONNECT    PC   PHOTOCELL	
DISC   DISCONNECT   PC   PHOTOCELL   DISTRIBUTION   PFB   PROVISION FOR FUTURE	BREAKER
DR DRAIN PH PHASE	
DWG DRAWING PNL PANEL	
PSI POUNDS PER SQUARE IN	CH
E   EAST   PVC   POLYVINYL CHLORIDE	
EF EACH FACE RECEPTACLE	
E/G   ENGINE GENERATOR    RELOC   RELOCATED	
EL ELEVATION REQUIRED	
EMER   EMERGENCY   RSC   RIGID STEEL CONDUIT	
III EO   EQUAL	
EQIP EQUIPMENT SPEC SPECIFICATION	
EXH   EXHAUST	
EXP EXPANSION SS STAINLESS STEEL	
FXT   FXTERIOR    SW   SWITCH	
SYS SYSTEM	
FDR	
FIN CR   FINISHED CRADE    T   TOP	
FLR FLOOR TYPICAL	
FXTR FIXTURE	
GALV GALVANIZED UNO UNLESS NOTED OTHERWI	
GEN GENERATOR UNINTERRUPTABLE POWE	R SUPPLY
GFI GROUND FAULT INTERRUPTER	
GND,GRD GROUND V VOLT	
GRS GALVANIZED RIGID STEEL CONDUIT VERT VERTICAL	
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HOA HAND-OFF-AUTO	
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IES ILLUMINATING ENGINEERING SOCIETY	
INT INTERIOR	
INTLK INTERLOCK	



STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

ELECTRICAL LEGEND, ABBREVIATIONS AND GENERAL NOTES

MAUI DISTRICT BASEYARD
REPAIR AND MAINTENANCE OF
BUILDINGS AND GROUNDS, PHASE 3
PROJECT NO. HWY-M-08-04M

SCALE: AS SHOWN

DATE: MAY 2005

SHEET No. E-1 OF 10. SHEETS

E227.DWG 05,