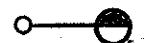
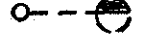


<u>480/277 V</u>	<u>PHASE</u>
BROWN	A
ORANGE	B
YELLOW	C
GRAY	N
GREEN	G

EXIST.	NEW	
		FEEDER KEY, NUUANU "2"
		FEEDER KEY, MAKIKI "M-1"
		FEEDER KEY, UNIVERSITY "U-1"
		REMOVE POLE ASS'Y, PROVIDE 100W HPS, 1ES, M-S II
		REMOVE POLE ASS'Y PROVIDE 150W HPS, 1ES, M-S II w/ POLE ASS'Y
		REMOVE POLE ASS'Y, PROVIDE 2/150W HPS, 1ES, M-S II, 30 FT POLE ASS'Y ON CONC WALL

EXIST.	NEW	DESCRIPTION
		Hwy. LT. ASS'Y w/ 250W HPS, I.E.S. M-S-II & 150W HPS, I.E.S. M-S-II
		Hwy. LT. ASS'Y, REMOVE LT. POLE ON CONC. WALL
		REMOVE & PROVIDE 250 W. HPS, I.E.S. M-S-II w/ POLE ASS'Y
		HPS CELL MTD. LUMINAIRE, 400W, TYPE "A1"
		HPS WALL MTD. LUMINAIRE, 150W, TYPE "A"
		Hwy. LT. ASS'Y w/ 2-250W HPS (30,000 LUMENS) I.E.S. M-N-III
		w/ 250W HPS (30,000 LUMENS) I.E.S. M-N-III
		w/ 100W HPS, FLAT GLASS, MED. CUTOFF II
		w/ 150W HPS, ON CONC. WALL
		PULL BOX, 2'X3', FOR UNDERPASS HIGH WATER ALARM, TO REMAIN
		HIGH WATER WARNING SIGN & EQUIP. CABINET, MODIFY
		REMOVE POLE ASS'Y, MODIFY FOUNDATION & PROVIDE 150/250W HPS, I.E.S. M-S-II w/ 35 FT POLE ASS'Y ON CONC. BARRIER.
		REMOVE POLE ASS'Y, MODIFY FOUNDATION & PROVIDE TWIN 250W HPS, I.E.S. M-S-II w/ 35 FT POLE ASS'Y ON CONC. BARRIER
		CONC. HANDHOLE, 3'X5', HECO. STD. 13341 REV.
		INDICATES CONC. BARRIER, TYPE "B", TO BE MODIFIED.
		INDICATES CONC. BARRIER, TRANSITION MODIFICATION FROM POLE FOUNDATION, NUMBER DENOTES LENGTH IN FEET
		2400 V. OVERHEAD CONDUCTORS, REMOVE
		SERIES CRT. NO. 2, ABANDON CABLE IN PLACE
		#4 CU. STRANDED, GROUND WIRE
		Hwy. LT. ASS'Y ON CONC. WALL, REMOVE POLE ASS'Y & PROVIDE 100W HPS, FLAT GLASS MED. CUTOFF II
		Hwy. LT. ASS'Y w/ 100W HPS, ON CONC. PARAPET w/ ADAPTER, SEE DET. 0627
		REMOVE WALL LT. & PROVIDE 150W, HPS, TYPE "A", WALL MT.
		Hwy. LT. ASS'Y, 100W HPS, I.E.S. M-S-II
		REMOVE POLE ASS'Y, PROVIDE 100W/100W HPS, I.E.S. M-S-II ON CONC. WALL.
		REMOVE POLE ASS'Y, PROVIDE 2/150W HPS, I.E.S. M-S-II w/ 35 FT POLE ASS'Y ON CONC. BARRIER
		Hwy. LT. ASS'Y w/ 2-250W HPS (30,000 LUMENS) I.E.S. M-N-II ON BARRIER
		Hwy. LT. ASS'Y w/ 150W/250W HPS, I.E.S. M-S-II ON CONC. WALL

EXIST.	NEW	DESCRIPTION
	●—○	HWY. LT. ASSY W/ 150W HPS (16,000 LUMENS) I.E.S. M-S-II
XXX	↓	REMOVE ASSEMBLY & FOUNDATION
	■—●	MTD. ON CONC. WALL OR BARRIER, REMOVE POLE ASSY & PROVIDE 150N HPS, I.E.S. M-S-II W/ POLE ASSY.
	●—■	REMOVE POLE ASSY, MODIFY FOUNDATION & PROVIDE 2-150 HPS, I.E.S. M-S-II W/ 55 FT. POLE ASSY ON CONC. BARRIER.
XXXX		REMOVE EXIST. POLE ON CONC. WALL.
	○—●	HWY. LT. ASSY W/ 2-150W HPS, I.E.S. M-S-II
	▷	TRAFFIC BEACON LT., RECONNECT
—X—		REMOVE UNDERPASS LUMINAIRE
	■—○	HWY. LT. ASSY W/ 250W HPS, ON CONC. WALL
	□—□	HWY. SIGN, REMOVE & PROVIDE LTS & WIRING, SEE SHT E-26 & E-28
—ER—		CONDUIT W/ SERIES CKT. REMOVE CABLE & PROVIDE 4#10 UNLESS NOTED OTHERWISE.
—X—X—		DIRECT BURIED CABLES, TO BE ABANDONED
—e—		CONDUIT W/ SERIES CKT, REMOVE 1/2 CABLE, ABANDON CONDUIT
—·—·—		UNDERGROUND PVC SCH'D 40 OR ABS CONDUIT W/ 3#1/0 & 1#6 UNLESS NOTED OTHERWISE
—		CONDUIT IN CONC. STRUCTURE W/ 3#1/0 & 1#6 UNLESS NOTED OTHERWISE
—		EXPOSED CONDUIT, PAINT TO MATCH W/ 3#1/0 & 1#6 UNLESS NOTED OTHERWISE
	1	POLE NUMBER, UNLESS NOTED OTHERWISE, SEE REF. IMMED. BELOW
	2	CIRCUIT NUMBER,
	W	WALL MTD. ON CONC. BARRIER,
		POLE HEIGHT 40', ANCHOR BASE
	C-8'	ARM LENGTH 8',
	100W	100 WATT HPS,
	FG	FLAT GLASS,
	W	INDICATES - POLE TO BE MTD. ON CONC. BARRIER (ANCH. BASE)
	BW	POLE TO BE MTD. ON GR. BACK OF CONC. WALL
	T	TRANS. BASE, BACK OF GUARD RAIL OR ON CONC. WALLS AS SHOWN.
	100W	100W HPS LUMINAIRE W/ I.E.S. M-S-II DISTRIBUTION
	E/S	LUMINAIRE WITH INTERNAL SHIELD
	S/B	SLIP BASE
	B	HWY. LT. ASSY MTD. ON CONC. BARRIER (ANCH. BASE)
	FG	FLAT GLASS MED. CUTOFF II LUMINAIRE
	C-	ARM, LENGTH AS NOTED
	A/P	ADAPTER PLATE OF NEW HWY. LT. ASSY
	MS II	MEDIUM, SEMI-CUTOFF, TYPE II I.E.S. DISTRIBUTION
	MB	POLE MTD. ON MEDIAN BARRIER SEE DET. SHT E-23
	□	CAST-METAL PB (24X24X1/2) SURFACE, PAINT TO MATCH
①	①	CAST-METAL PB, SMALL, PER NEC, PAINT TO MATCH
■	■	CAST-METAL PB, SIZE AS NOTED, IN CONC. BARRIER
	□	CAST-METAL PB, PAINT TO MATCH, 6" X 6" X 6"
	●—+	CONDUIT CONN. BETWEEN NEW & EXIST.
□	□	PULL BOX, STATE HWY. DIV. TYPE "C", NOTE #②
	■	REPLACE PULLBOX W/ STATE HWY. DIV. TYPE "C", NOTE #②
	Ⓐ	DICT. SECTION "A", FOR DICT. SECTION SCH'D, SEE SHT E-27
⊠		HANDHOLE STATE HWY. DIV. TYPE "A", TO REMAIN
E		HWY. SIGN KEY
	②	NOTE KEY, SEE SHT E-1
	⊙	PHOTO ELECTRIC SWITCH
	⊙-1	TIME SWITCH
	□	PAD MTD. TRANSFORMER
—EHWA—		HIGH WATER ALARM CONDUIT, TO REMAIN
—S—		HIGH WATER WARNING SIGN CONDUIT, TO REMAIN
—e—		DISCONNECT CABLE, ABANDON IN PLACE
	Ⓐ	CONTACTORS

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PROFESSIONAL
ENGINEER
No. 573-E
HAWAII, U.S.A.

THIS WORK WAS PREPARED
ME OR UNDER MY SUPERVISION
24.5
Winn M. Nakamura

SHEET No. E-1 OF 32 SHEETS

A	ASBY ANG. ADD'L APPROX.	ASSEMBLY ANCHOR ADDITIONAL APPROXIMATE	AVE AVERAGE
B	BKT. BOT.	BRACKET BOTTOM	
C	C CHK. CONC. CLR.	RACENAY CIRCUIT CONCRETE COLUMN CLEAR	CONTR CONTRACTOR
D	DIV. D.T. DIST. DET.	DIVISION DRY TYPE DISTANCE DETAIL	DIA. DIAMETER
E	EXIST. E.T.W. ELEV. EQUIP.	EXISTING EDGE OF TRAVELED WAY ELEVATION EQUIPMENT	ELEC. ELECTRIC EXTEN. EXTENSION EA EACH
F	FIXT. FDR. FND. FLT.	FIXTURE FEEDER FOUNDATION FUTURE	FC FOOTCANDLES
G	GRD. GR. GAW. GRS	GROUND GRADE GALVANIZED GALVANIZED RIGID STEEL CONDUIT	
H	HID HPS HWY. H H.H.	HIGH INTENSITY DISCHARGE HIGH PRESSURE SODIUM HIGHWAY HEIGHT HANDHOLE	
I	I.E.S. INB'D IMMER.	ILLUMINATING ENGINEERS SOCIETY INBOARD IMMEDIATELY	
J	JB JT.	JUNCTION BOX JOINT	
K	KV KVA	KILOVOLT KILOWOLTAMPERE	
L	LT. LTG.	LIGHT LIGHTING	
M	MT.; MTP. MED.	MOUNT; MOUNTED MEDIUM	
N	N.I.C. N.M.R. N.T.S.	NOT IN CONTRACT NON-METALLIC RACENAY NOT TO SCALE	
O	OH O.C.	OVERHEAD CONDUCTOR ON CENTER	
P	PVC PB PL	POLYVINYLCHLORIDE CONDUIT PULLBOX PLATE	
Q			
R	RCT. RESIST. RET. REF.	RECEPTACLE RESISTANCE RETAINING REFERENCE	
S	S/B STL. SW. STD. SCH'D SHT. SNGEAR	SLIP BASE STEEL SWITCH STANDARD SCHEDULE SHEET SWITCHGEAR	SURF. SURFACE SVC. SERVICE STRUC. STRUCTURE STA. STATION SIM. SIMILAR
T	TYP. TRANS. T&B THK	TYPICAL TRANSFORMER TOP & BOTTOM THICK	TS TIME SWITCH
U	UN	UNIFORMITY RATIO	
V			
W	W W	WATT WATT	
X			

ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE _____
	DRAWN BY _____	" _____
	TRACED BY _____	" _____
NOTE BOOK	DESIGNED BY _____	" _____
	QUANTITIES BY _____	" _____
No. _____	CHECKED BY _____	" _____

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THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

Yum Nakamura