

TMK: 1-2-25:69

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HWY-0-05-00	2002	30	30

LUMINAIRE : 15011

150W HPS TYPE II DIST
CAD SYMBOL : ARROW.SYM
CAD SYMBOL SIZE : 5

FILENAME : C:\AGI\IESFILES\GE\GE7248.IES
LUMENS = 16000
LLF = .7
SPIN = 0

IESNA91
[TEST] GE 177248
[MANUFAC] GE Lighting Systems - Hendersonville, NC, USA
[LUMCAT] (not specific to a single catalog number)
[LUMINAIRE] GE M-250R2
[LAMP] HPS 50-150
[OTHER] Distribution: M-S-II
[MORE] Socket Pos: 1.5B
[MORE] Comments: GLASS 516
[MORE] Revision No: 1 Rev Date: 940302 Test Date: 92103003
[MORE] Reflector: -
TILT=NONE
LAMPS = 1 LUMENS/LAMP = 1000 PHOTOMETRIC TYPE = 1 WATTS = 1
LUMINOUS DIMENSIONS (FEET): WIDTH = 1.5 LENGTH = 0 HEIGHT = 0
FACTORS: MULTIPLIER = 1 BALLAST = 1 BALLAST-LAMP = 1
NUMBER OF VERTICAL ANGLES = 20 0 TO 90 DEGREES
NUMBER OF HORIZONTAL ANGLES = 36 0 TO 180 DEGREES

LUMINAIRE : 25011

250HPS TYPE II DIST
CAD SYMBOL : ARROW.SYM
CAD SYMBOL SIZE : 5

FILENAME : C:\AGI\IESFILES\GE\GE1012.IES
LUMENS = 28500
LLF = .7
SPIN = 0

IESNA91
[TEST] GE 171012
[MANUFAC] GE Lighting Systems - Hendersonville, NC, USA
[LUMCAT] (not specific to a single catalog number)
[LUMINAIRE] GE M400 PRISMATIC
[LAMP] HPS 200-400
[OTHER] Distribution: M-S-II
[MORE] Socket Pos: 1E + SPACER
[MORE] Comments: 3/4" SOCKET SPACER
[MORE] Revision No: 0 Rev Date: 970110 Test Date: 96120607
[MORE] Reflector: 431561-01 Refractor: PRISMATIC GLASS
TILT=NONE
LAMPS = 1 LUMENS/LAMP = 1000 PHOTOMETRIC TYPE = 1 WATTS = 1
LUMINOUS DIMENSIONS (FEET): WIDTH = 1.5 LENGTH = 0 HEIGHT = 0
FACTORS: MULTIPLIER = 1 BALLAST = 1 BALLAST-LAMP = 1
NUMBER OF VERTICAL ANGLES = 20 0 TO 90 DEGREES
NUMBER OF HORIZONTAL ANGLES = 36 0 TO 180 DEGREES

LUMINAIRE LOCATION SUMMARY

COORDINATES IN FEET

NO.	LUMINAIRE LABEL	X-COORD	Y-COORD	Z-COORD	ORIENT	TILT	AIMING COORDINATES X	Y	Z
1	25011	-4873	-563	30	270	0	-4873	-563	0
2	25011	-4949	-631	30	90	0	-4949	-631	0
3	15011	-4738	-631	30	90	0	-4738	-631	0
4	15011	-4675	-563	30	270	0	-4675	-563	0
5	15011	-4582	-631	30	90	0	-4582	-631	0
6	15011	-4483	-562	30	270	0	-4483	-562	0
7	25011	-5072	-560	30	270	0	-5072	-560	0
8	25011	-5147	-630	30	90	0	-5147	-630	0
9	15011	-5201	-560	30	270	0	-5201	-560	0
10	15011	-5364	-631	30	90	0	-5364	-631	0
11	15011	-5499	-560	30	270	0	-5499	-560	0
12	15011	-5567	-631	30	90	0	-5567	-631	0

15011: TOTAL NUMBER OF LOCATIONS = 8

25011: TOTAL NUMBER OF LOCATIONS = 4

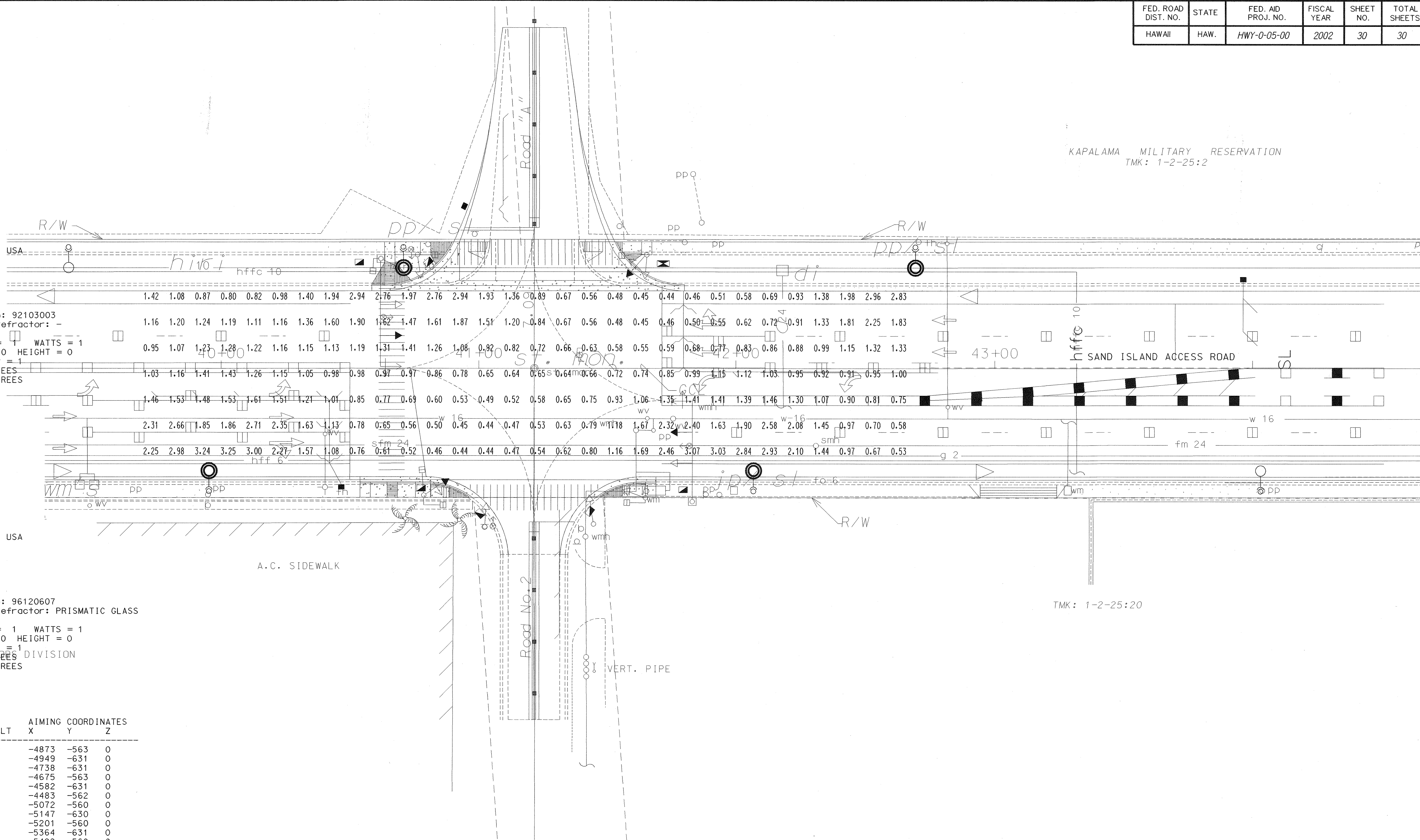
AVERAGE TILTED LAMP CORRECTION FACTOR APPLIED = 1

PLANE : STREET

POINT SPACING LEFT-TO-RIGHT = 10 ft
POINT SPACING TOP-TO-BOTTOM = 10 ft
LOWER LEFTHAND CORNER OF PLANE:
X = -5172 Y = -628 Z = 0
UPPER RIGHTHAND CORNER OF PLANE:
X = -4873 Y = -567 Z = 0
LIGHT METER IS NORMAL TO PLANE

AVERAGE f_c = 1.22
MAXIMUM f_c = 3.25
MINIMUM f_c = .44
AVERAGE/MINIMUM = 2.77
MAXIMUM/MINIMUM = 7.39
TOTAL NUMBER OF POINTS = 210

KAPALAMA MILITARY RESERVATION
TMK: 1-2-25:2

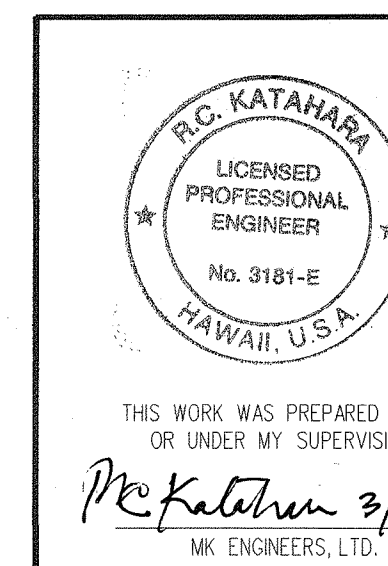


TMK: 1-2-25:20

STREET LIGHTING ILLUMINATION CALCULATION
SCALE: 1" = 20'

01015-SC

DATE	_____
SURVEY PLOTTED BY	_____
DRAWN BY	_____
CHECKED BY	_____
NOTED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
_____	_____
_____	_____



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

LIGHTING CALCULATIONS
SAND ISLAND ACCESS ROAD
Intersection Improvements at Road No. 2
Project No. Hwy-0-05-00

Scale: As Shown Date: Feb. 2002

SHEET No. E-5 OF 5 SHEETS