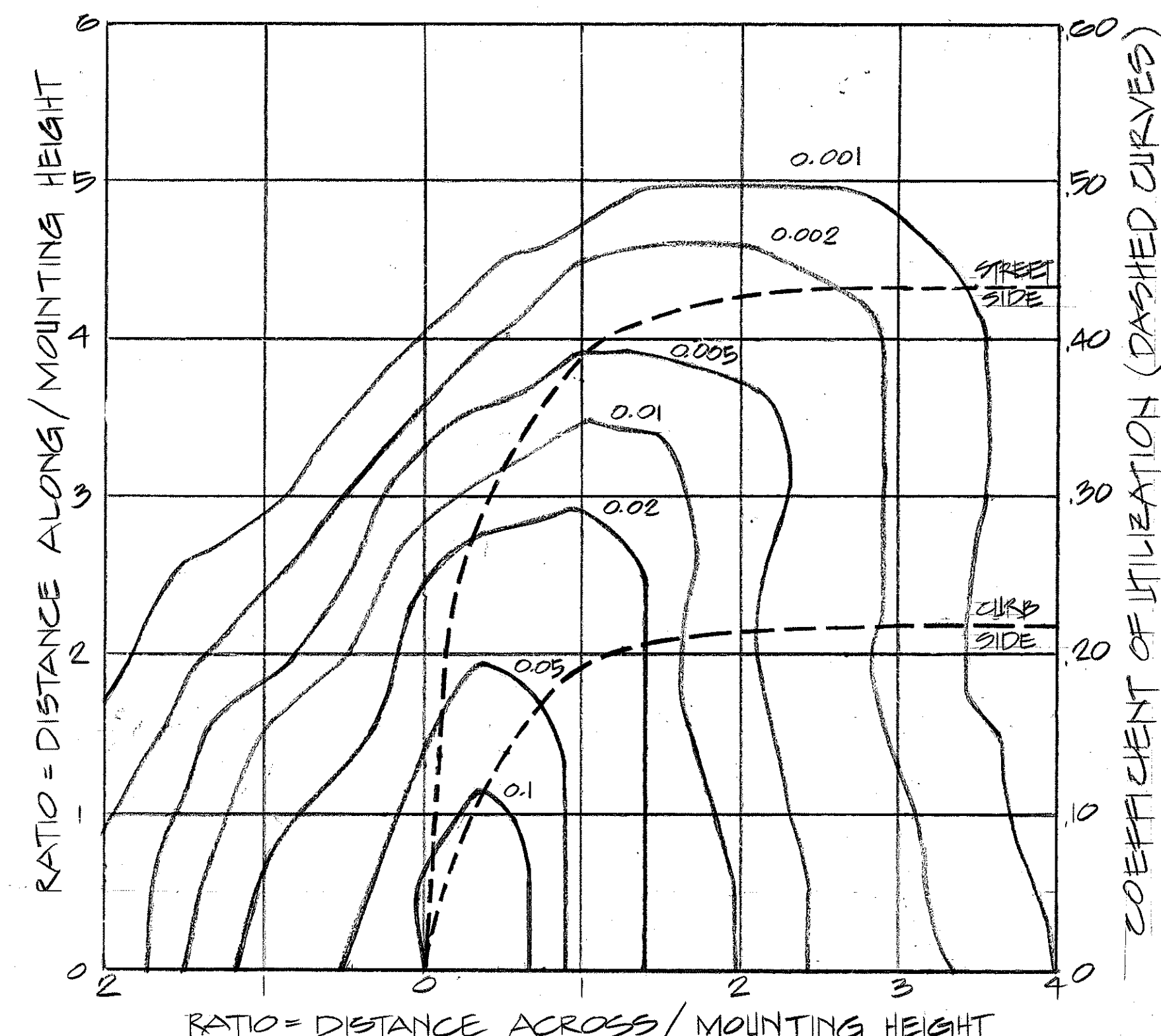
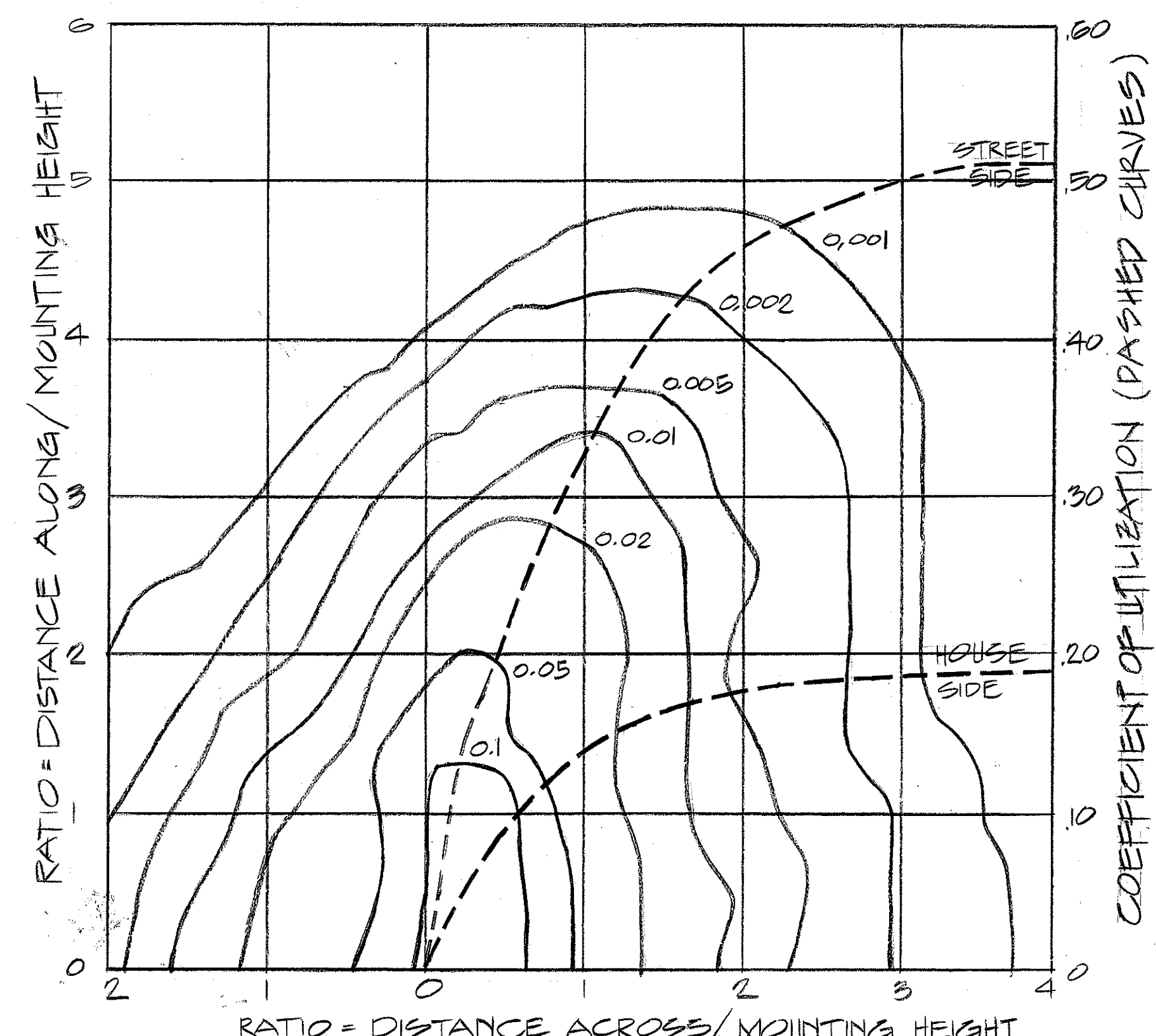
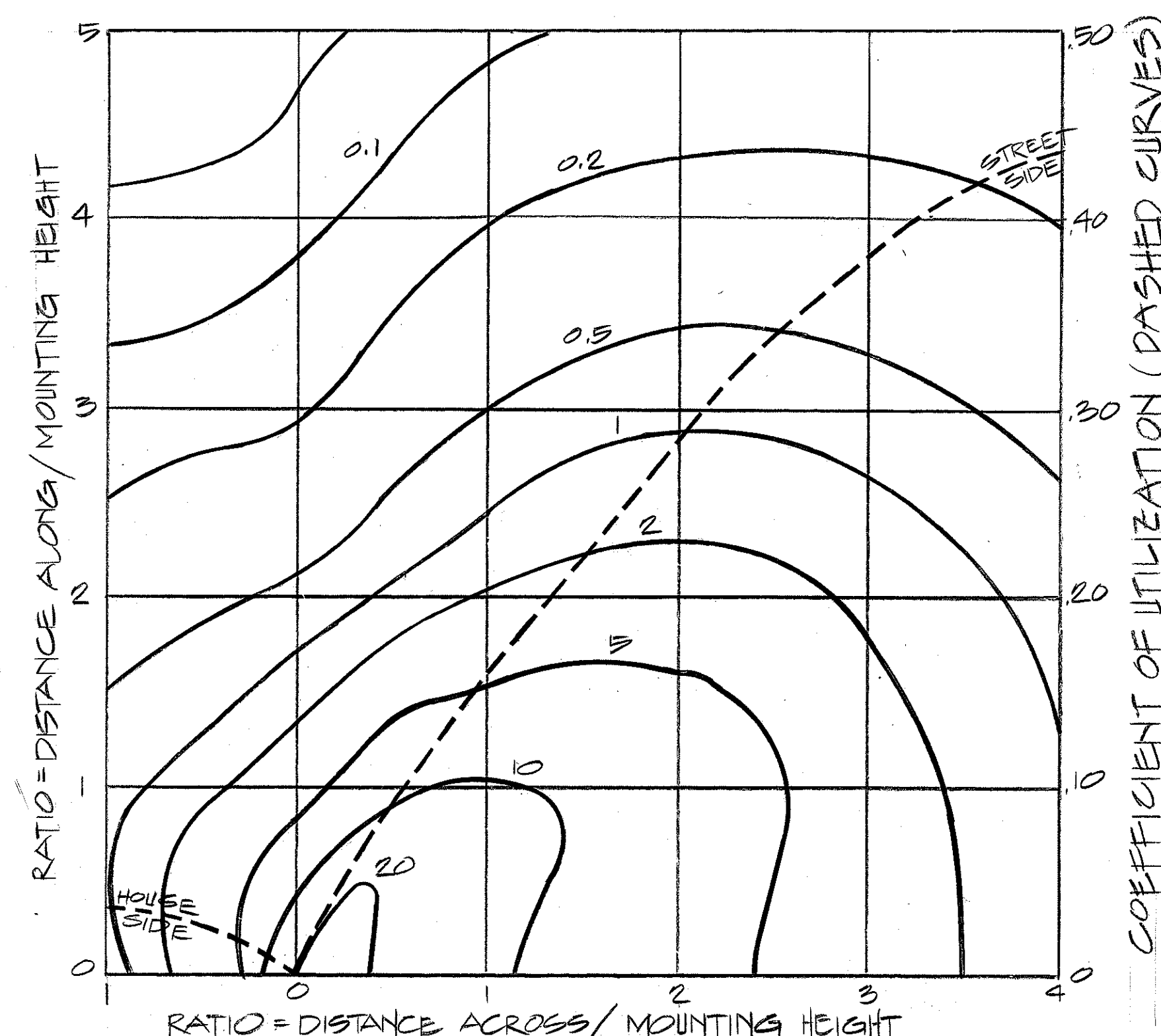
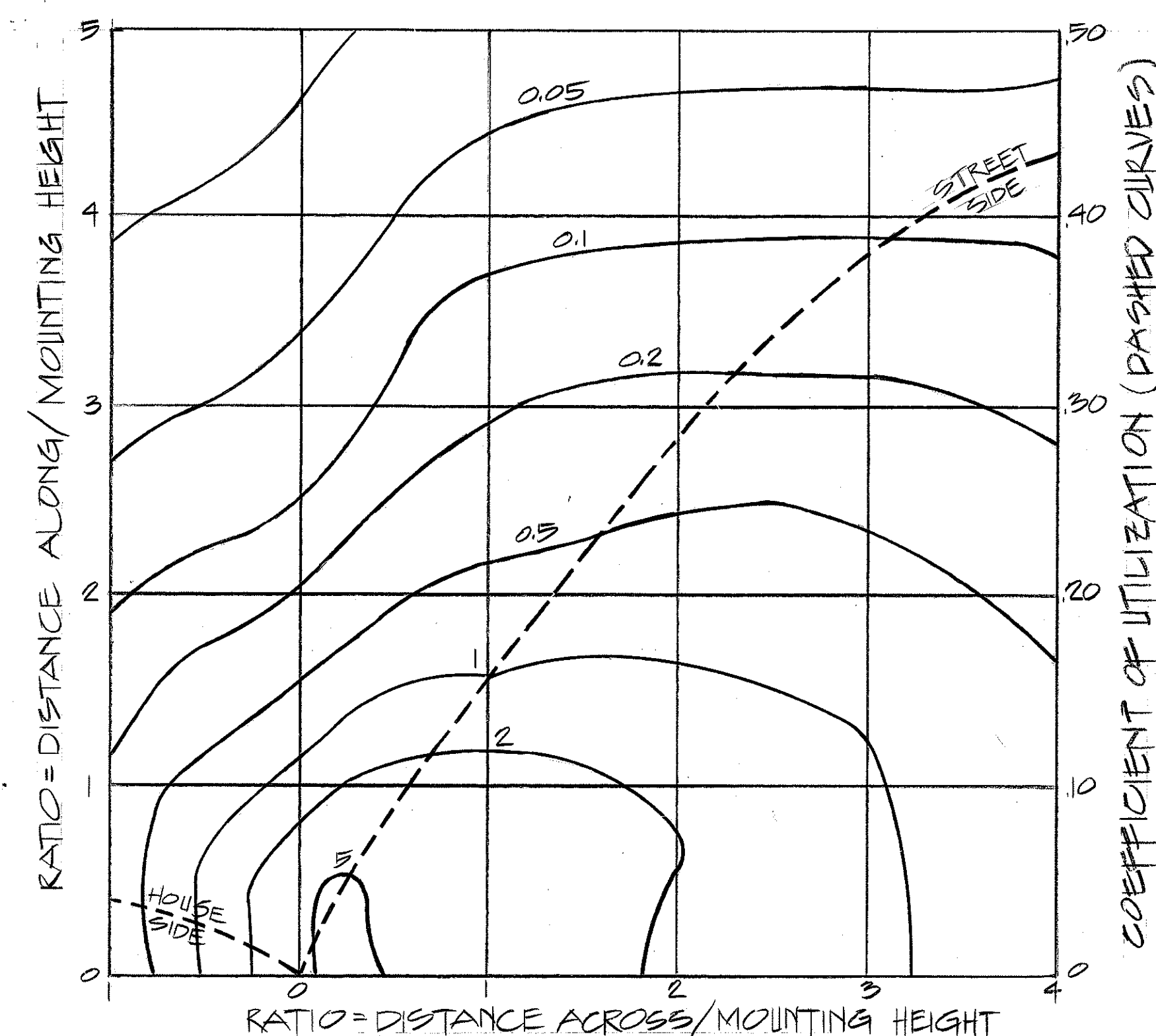
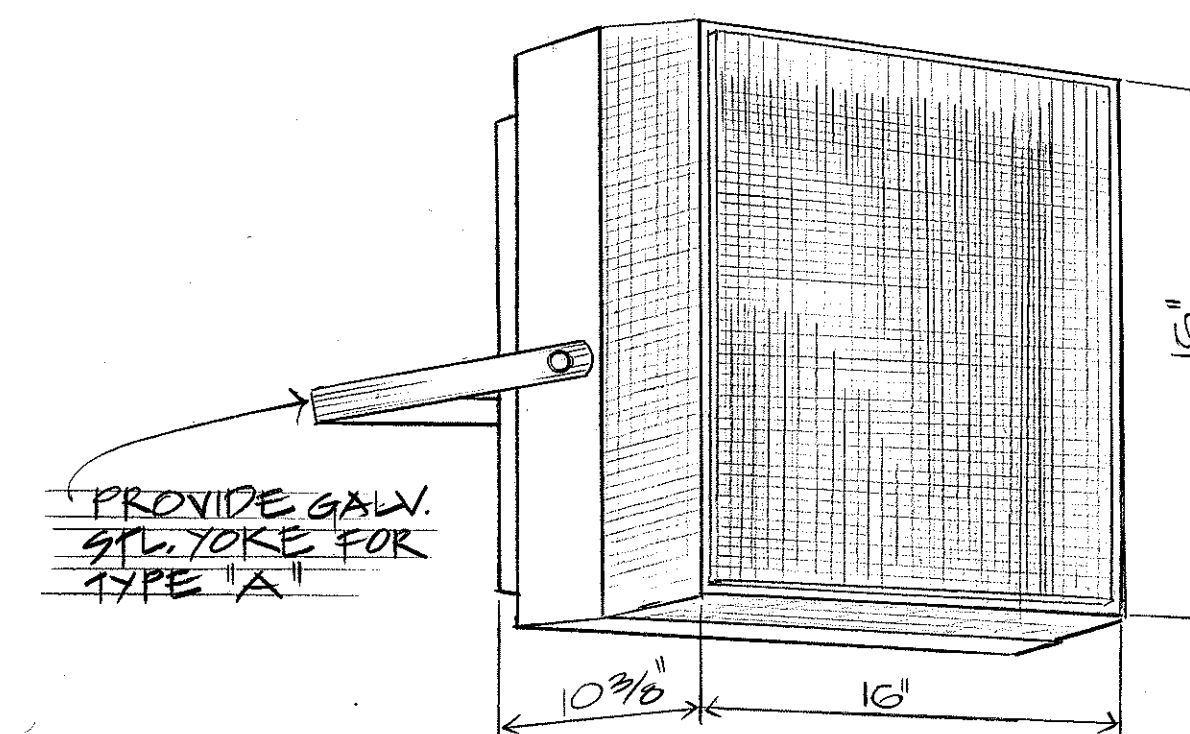


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-HI-1(186)	1987	90	97



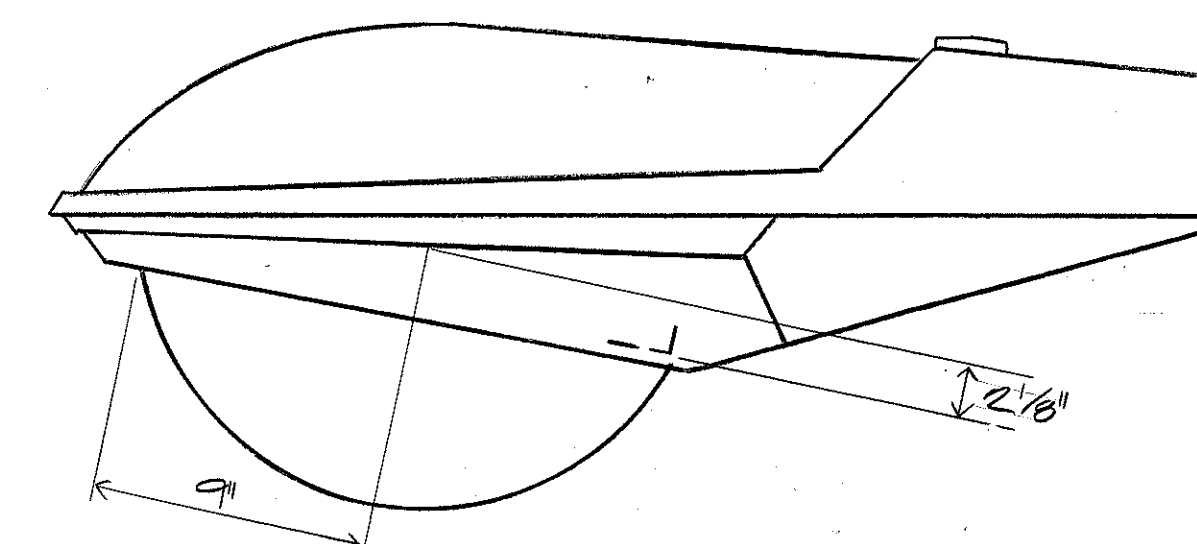
ISOFOOTCANDLE & UTILIZATION CURVES

NOTE: TYPES A & A1 ARE BASED ON 15-FOOT MOUNTING HEIGHT. TYPES B & B1 ARE BASED ON 30-FOOT MOUNTING HEIGHT WITH 1000 LAMP LUMENS.

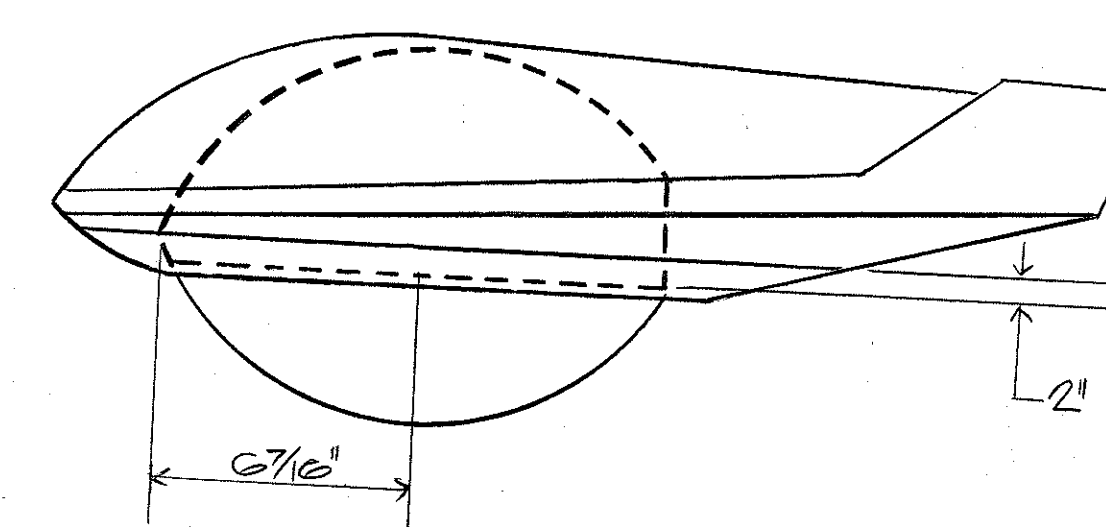


TYPE "A"-150 W HIGH-PRESSURE SODIUM, 480 V AT UNDERPASS
TYPE "A1"-400 W HIGH-PRESSURE SODIUM, 277 V AT RAMP "E" TUNNEL

- NOTES:
1. PROVIDE ALUM VISOR FOR TYPE A FIXTURES.
2. PROVIDE INTERNAL ALUM SHIELD FOR TYPE A1 FIXTURES, SEE SHT E-8.

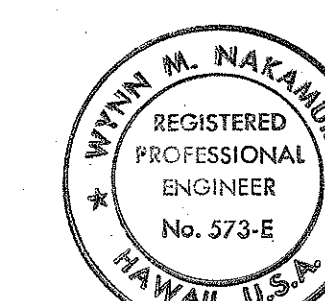


TYPE "B"-IES TYPE MEDIUM/CUTOFF/TYPE II
150 W HIGH-PRESSURE SODIUM



TYPE "B1"-IES TYPE MEDIUM/NO CUTOFF/TYPE II
250 W HIGH-PRESSURE SODIUM

NAKAMURA, OYAMA & ASSOC., INC.
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Honolulu, Hawaii 96813



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

Wayne M. Nakamura

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HIGHWAY LIGHTING SYSTEM

INTERSTATE ROUTE H-1
HIGHWAY LIGHTING IMPROVEMENTS
AALA STREET TO PUNCHBOWL STREET
KEEKAUMOKU STREET TO OLD WAHALAE ROAD
PROJECT NO. IR-HI-1(186)

SCALE: AS NOTED DATE: 30 JAN '87

SHEET NO. E-25 OF 32 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NO. 1	DRAWN BY	
	TRACED BY	
	DESIGNED BY	
	CHECKED BY	