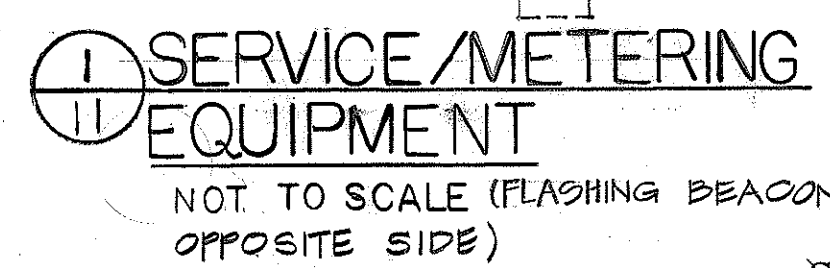
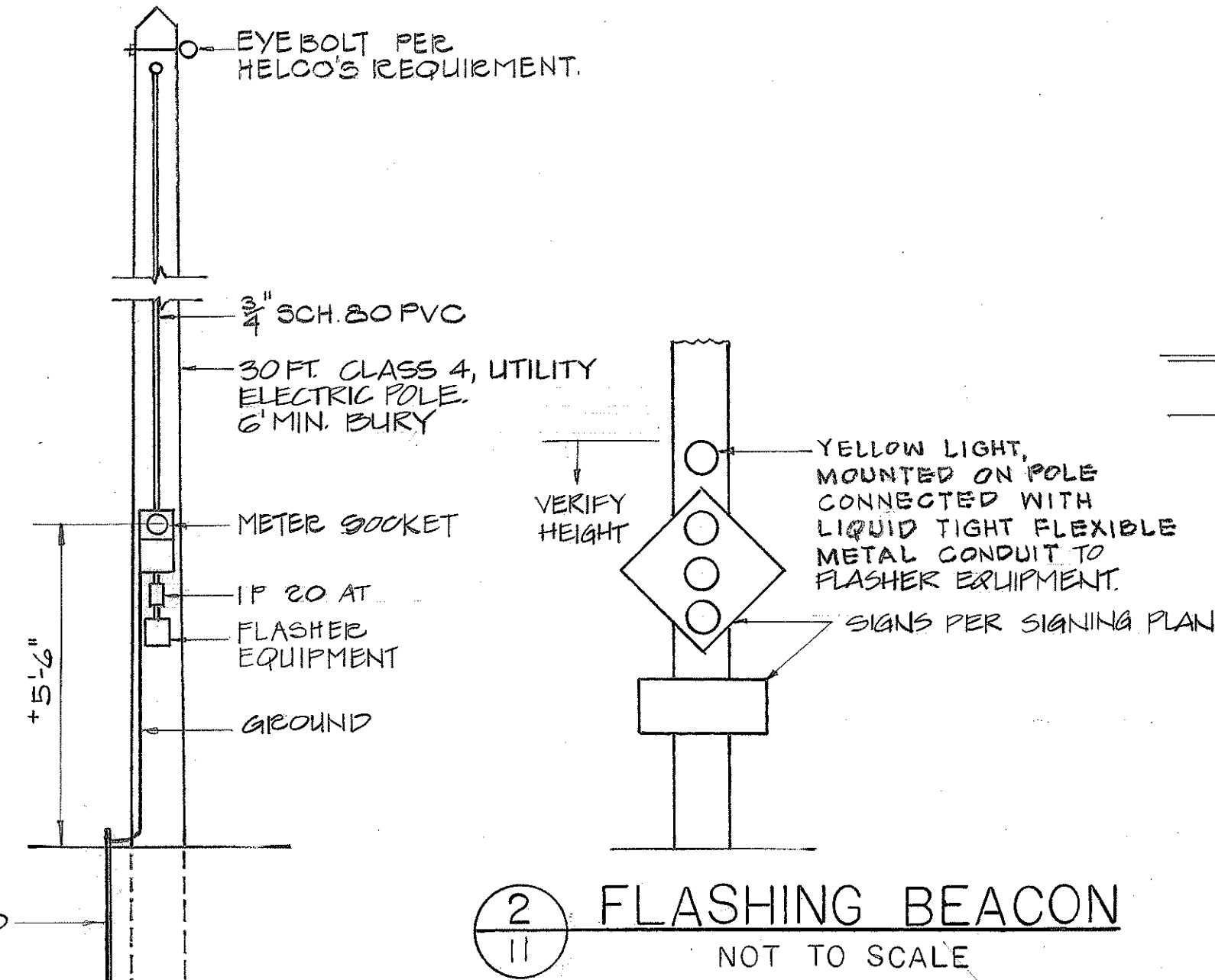
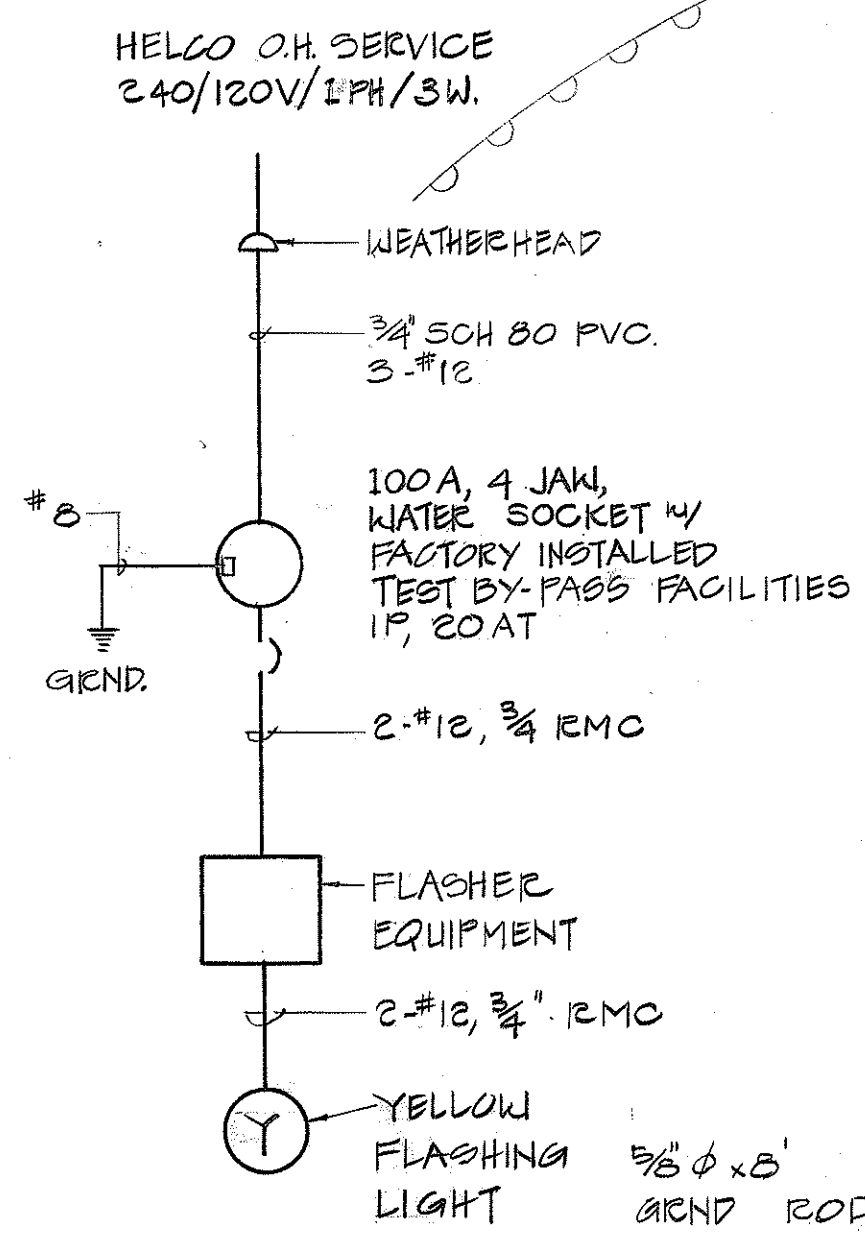
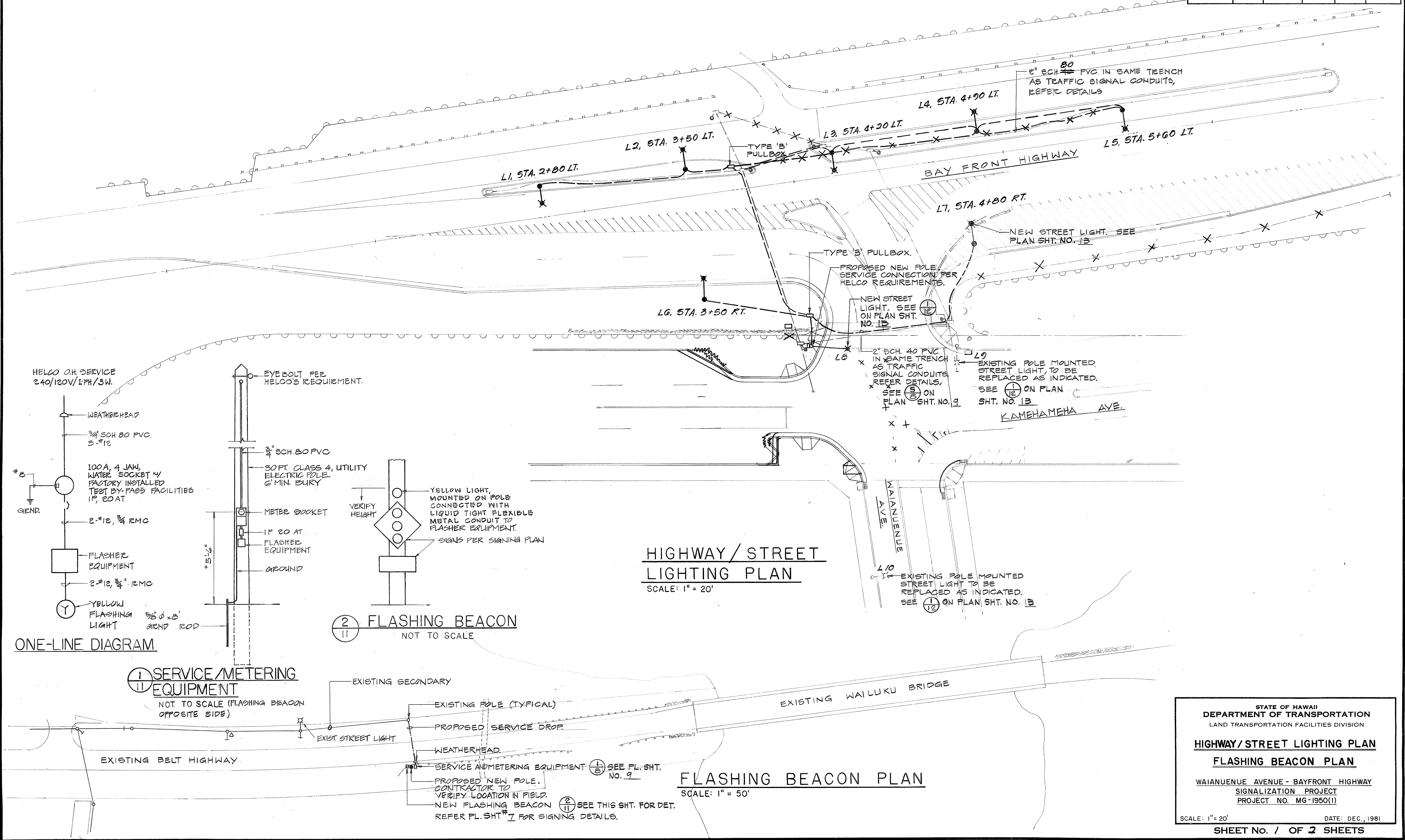
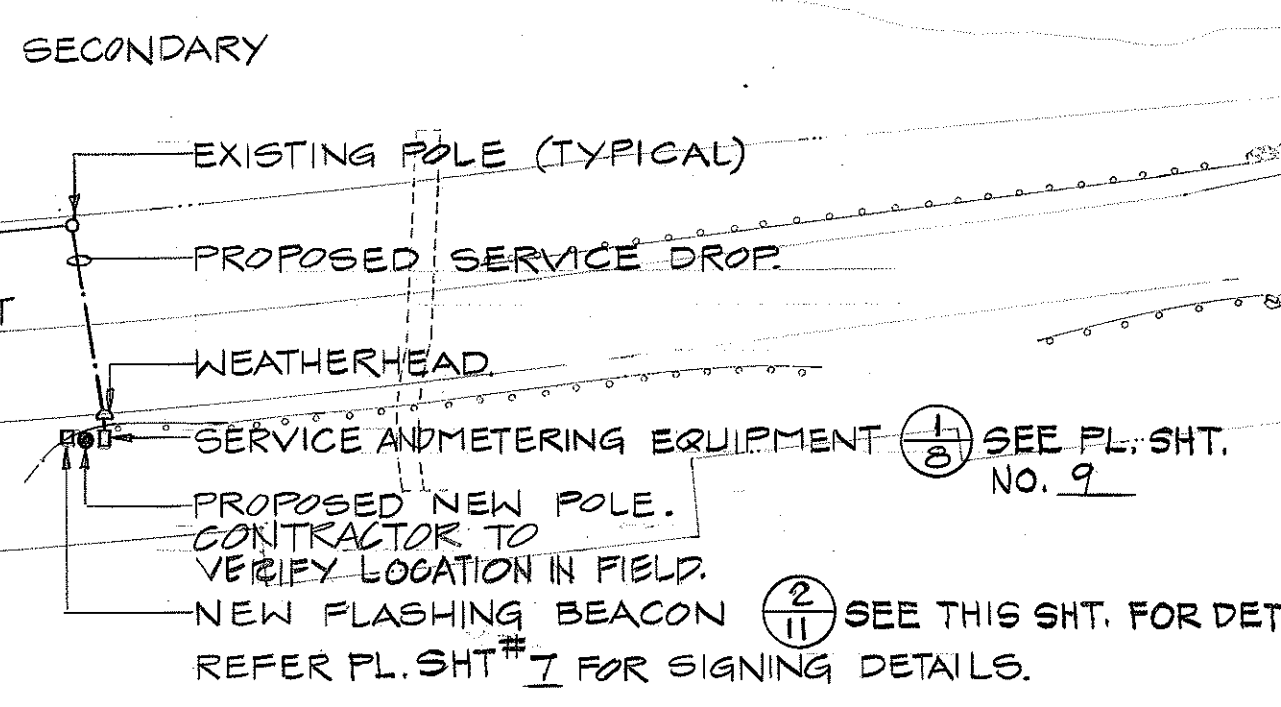


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	MG-1950(1)	1982	12	25



HIGHWAY / STREET LIGHTING PLAN
SCALE: 1" = 20'



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

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 LAND TRANSPORTATION FACILITIES DIVISION
HIGHWAY / STREET LIGHTING PLAN
FLASHING BEACON PLAN
 WAIANUENUE AVENUE - BAYFRONT HIGHWAY
 SIGNALIZATION PROJECT
 PROJECT NO. MG-1950(1)
 SCALE: 1" = 20' DATE: DEC., 1981
 SHEET No. 1 OF 2 SHEETS

8'-0"
 PHOTO ELECTRIC CONTROL UNIT
 250 WATT HIGH PRESSURE SODIUM VAPOR STREET LIGHT WITH SHADE CONFORMING TO REQUIREMENTS OF HAWAII COUNTY ORDANCE #30
 TAPERED ELLIPTICAL BRACKET
 POLE LENGTH 30'-0"
 POLE ALUMINUM TAPERED & ROUND
 IDENTIFICATION TAG 7'-0"
 TRANSFORMER BASE - # TBF-201 ALUMINUM WITH 6 7/8" x 2 1/4" x 12 1/2" DOOR OPENING OR EQUAL
 2'-0"
 CURB
 3"
 CONCRETE FOUNDATION SEE DETAIL

PLAN

1/2" DRAINAGE CHASE
BOLT DIA. 1/8" (VERIFY W/ SHOP DWG)
EDGE OF TRANSFORMER BASE
GROUND ROD
TRANSFORMER BASE DOOR THIS SIDE
22" SQUARE
1" SCH 40 PVC
22" SQUARE

SECTION "A-A"

GROUT FINISH (CEMENT) MORTAR MIX) AFTER LEVELING POLE
PROVIDE TWO LEVELING NUTS FOR EACH ANCHOR BOLT AND 1/4" THICK NEOPRENE PAD BETWEEN POLE BASE AND CONC. FOUNDATION FORM TOP 6" ONLY
FINISH GRADE
FILL CONCRETE TO LIMITS OF EXCAVATION IN UNDISTURBED GROUND CONDITIONS
1" SCH 40 PVC
1" X 40" ANCHOR BOLT
4 - #4 VERT. RE-BAR W/ #3 @ 8" STIRRUPS 12" O.C.
5/8" X 8'-0" COPPERWELD GROUND ROD
18" MIN
2'-0" W

CONNECTION TO
HELCO SECONDARY
240/120 V, 1 PH., 3 W.

WEATHERHEAD

3-#2 IN
1 1/2" SCH 40
RIBBON CONDUIT

L1

L2

L1

L2

2-#12 (TYP)
W/GROUND

FUSE CONNECTION
IN TRANSFORMER BASE (TYP)

TO OTHER STREET
LIGHTS

3-#2 IN 2" SCH 40
PVC DUCTS (TYPICAL)

ALTERNATE LINE
CONNECTIONS AMONG
STREET LIGHT

FED. ROAD DIST. NO.	STA.
HAWAII	HAWAII

IN-LINE FUSE
AND FUSE HOLDER
FOR 2 AWG STRANDED
COPPER ON
LINE SIDE AND
NO. 12 AWG COPPER
ON LOAD SIDE, 10A.
FUSE (TYPICAL)

INSULATED
GROUNDABLE
BUSHINGS

FROM SECONDARY

TO OTHER LIGHT
ROOST WHEN REQD

5/16" DIA.
2 HOLES

9"

10 1/4"

4 1/4"

N250 - III 120 V

1. USE 2 PLY PLASTIC - BLACK & WHITE
2. NUMBER SIZE SHALL BE 1" HIGH AND ENGRAVED 1" WIDE, WHITE IN COLOR (NUMBER AS REQUIRED)
3. NOMENCLATURE SHALL BE 1/2" HIGH AND ENGRAVED 1/2" WIDE, WHITE IN COLOR (WATTAGE, IES DISTRIBUTION, AND VOLTAGE AS REQUIRED)
4. ATTACH TO STEEL POLES WITH NO.7 CADMIUM PLATE SCREWS.
(a) ATTACH TO ALUMINUM POLES WITH NO.7 ALUMINUM DRIVES SCREWS
5. USE "H" FOR MERCURY VAPOR AND "N" FOR SODIUM LAMPS.

A

B

C

D

E

F

G

EXISTING SECONDARY

x

y

z

10'

90 WATT LOW PRESSURE SODIUM STREET LIGHT W/
PHOTO-CELL

TAPERED
ELLIPTICAL BRACKET 8 FEET

EXISTING POLE

- A. NO. 8 AWG 7-STRAND ALUMINUM WIRE, RHW.
- B. IN THE LINE UNFUSED, INSULATED SEPARABLE CONNECTOR, SUITABLE FOR NO. 8 AWG STRANDED ALUMINUM WIRE ON LINE SIDE, NO. 12 COPPER WIRE ON LOAD SIDE.
- C. IN THE LINE FUSE HOLDER AND FUSE SUITABLE FOR NO. 8 AWG. STRANDED ALUMINUM WIRE ON LINE SIDE AND NO. 12 AWG COPPER ON LOAD SIDE.
- D. NO. 12 AWG RHW BLACK, STRANDED.
- E. NO. 12 AWG RHW, STRANDED.
- F. 3/4" PVC SCHEDULE 80 CONDUIT.
- G. LUMINAIRE AND BRACKET.

NEW STREET LIGHT ON NEW
OR EXISTING POLE