GENERAL NOTES

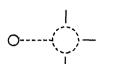
- 1. The Contractor shall coordinate his work with HECo \$ HTCo prior to the start of construction. All work shall be arranged to maintain continuous power \$ telephone service.
- 2. HECo and/or its Contractor will construct or relocate all HECo facilities.
- 3. The Contractor shall provide HTCo \$ HECo and/or their Contractors
 24 hour access to the site for accomplishment of thier work. The
 Contractor shall be responsible for any delays in company work due to
 his failure to provide access to company facilities.
- 4. Any existing HECo and/or HTCo facilities damaged by the Contractor during construction shall be replaced and/or repaired by HECo and/or HTCo at Contractor's expense.
- 5. HTCo to split existing conduits with cable where new split ducts are required over existing cable. Contractor to expose existing conduits.
- 6. Where existing ductline is intercepted by pullbox, handhold or manhole, the existing conduit within the box, handhole or manhole shall be demolished as specified for demolition of duct bank in new manhole.
- 7. Unless otherwise indicated, HTCo TPB is type 435-TB pullbox.
- 8. All existing telephone facilities shall remain in place and in working condition until such time as new facilities are installed \$\psi\$ activated.
- 9. Temporary relocation of HTCo facilities to accommodate Contractor's work will be subject to HTCo approval and will be done at Contractor's expense.

CONSTRUCTION NOTES

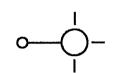
- 1. Contractor shall be responsible for cleaning \$\psi\$ removal of silt \$\psi\$ debris generated by the excavation work \$\psi\$ deposited \$\psi\$ accumulated within downstream waterways, drain pipes, ditches \$\psi\$ roadways. Contractor agrees to reimburse the State of Hawaii for all cost expended in the performance of the above work if required for public health \$\psi\$ safety or if made necessary by non-performance by the Contractor.
- 2. Contractor shall at his expense keep the project \$\psi\$ surrounding area free from dust niusance. The State shall require supplementary measures as necessary.
- 3. All existing utilities, whether or not shown on the plans, shall be protected at all times during construction \(\psi\) any damages to them shall be repaired \(\psi\) paid for by the Contractor. Any digging to be done in the proximity of existing facilities shall be done by hand to prevent any undue damages.
- 4. For additional information on location of existing underground utility lines, meter boxes \$\psi\$ handholes, see civil plans.
- 5. Prior to excavation in areas where HECo \$\pi\$ HTCo facilities are close by, Contractor shall request the services of HECo \$\pi\$ HTCo stand-by before scheduled excavation.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	93B-02-91	1994	110	122

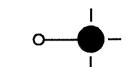
LEGEND



Existing Mast Arm on Joint Pole (to remain)



Single Mast Arm and 150 Watt H.P.S. Lamp Install on Joint Pole



Single Mast Arm and 150 Watt H.P.S. Lamp Installed on State Light Pole



PLAN DRAWN
PLAN DRAWN
TRACE
OTE BOOK DESIGN
A CHECK
TRACE
OTH DRAWN
TRACE
OTH DRAWN
TRACE
TRACE
OTH DRAWN
TRACE
TRAC

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HIGHWAY LIGHTING

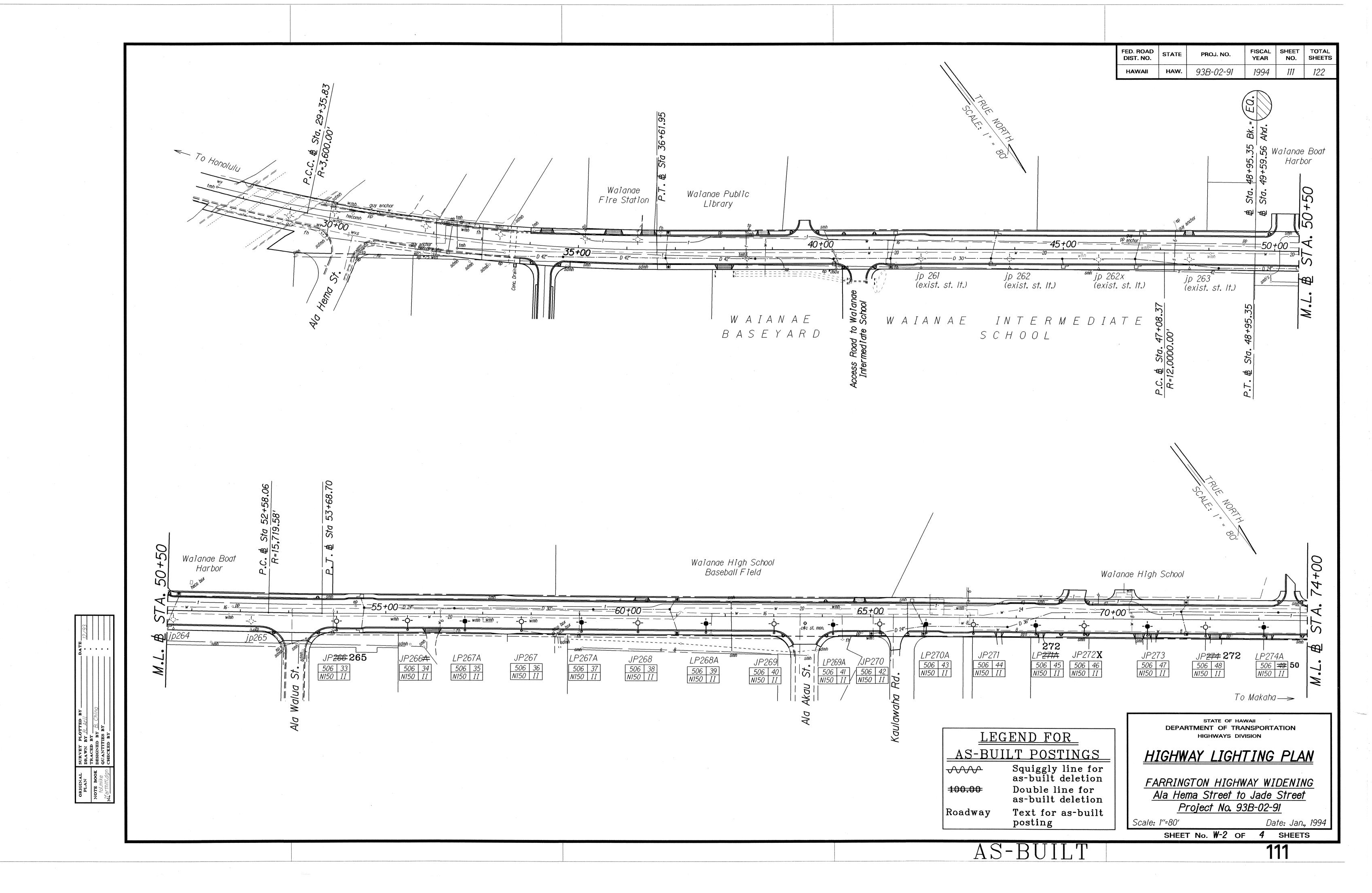
LEGEND \$ NOTES

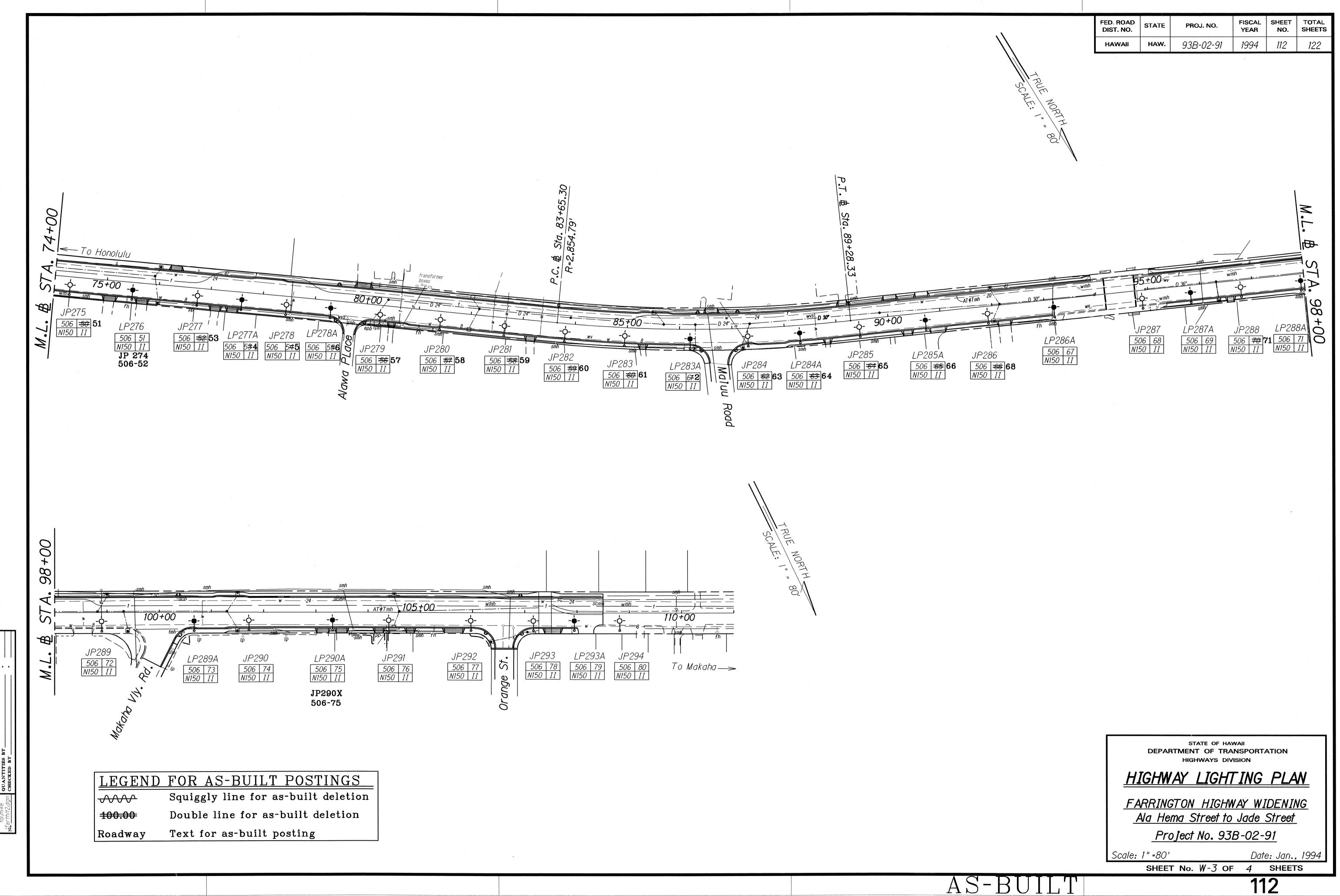
FARRINGTON HIGHWAY WIDENING

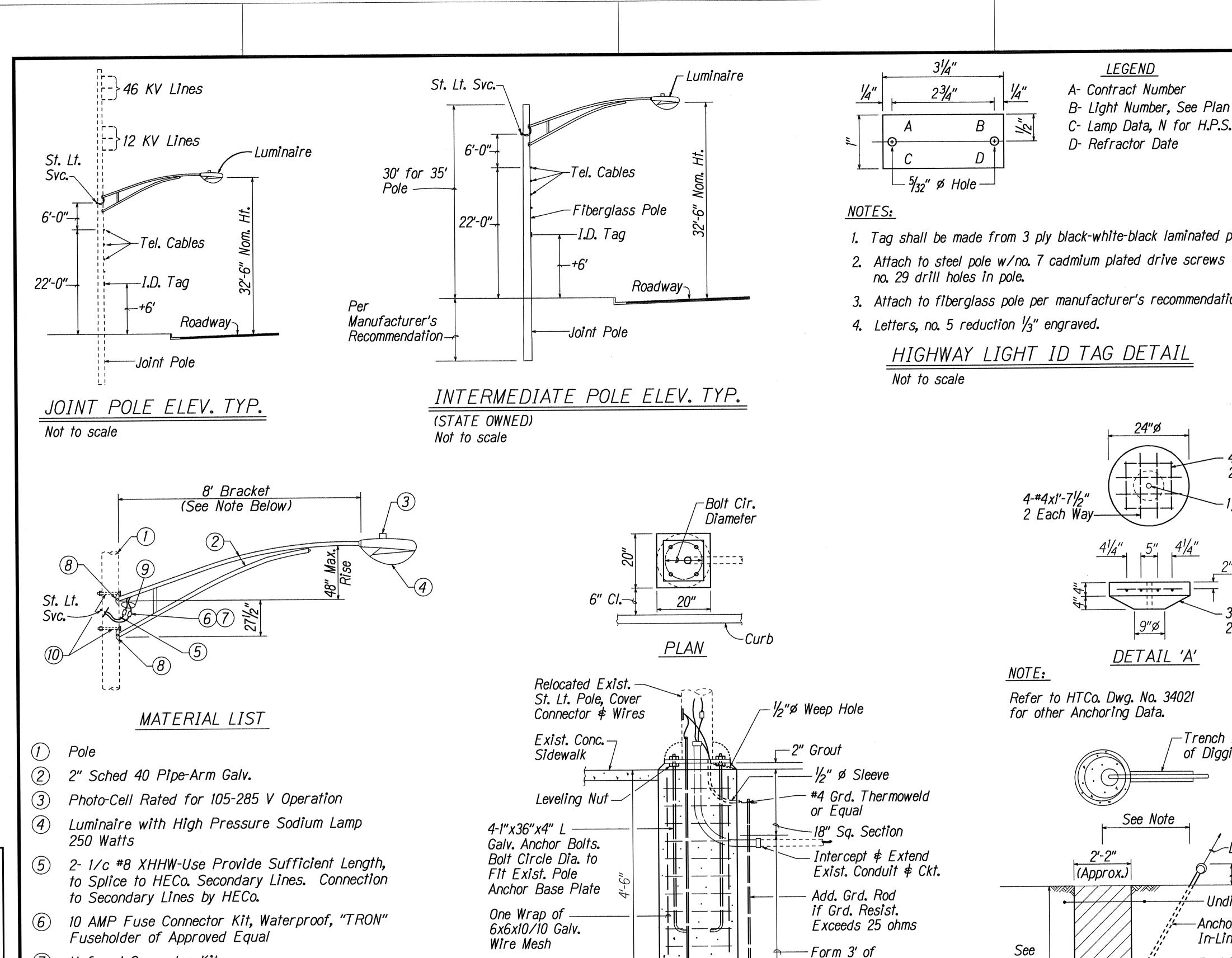
Ala Hema Street to Jade Street

Project No. 93B-02-91

Date: Jan., 1994







2- 1/c #10 XHHW-Use Copper Stranded 600 V 5/8" Dia. by Required Length Machine Bolt

1/4" Galv. Wood Pole Arm Mounting Plate

2-9/16" Dia. Holes Attached to Pole with 1/2" Dia.

Washer, Nut, Galv. Steel

Unfused Connector Kit

Lag Screw (2 ea.)

TYP. HIGHWAY LIGHT MTG. DETAIL

Not to scale

12/93

SURVEY
DRAWN
TRACED
DESIGNEI
QUANTIT

STREET LIGHT CONC. FOUNDATION DET.

20"

Round Section

2" Clear

(CITY OWNED) Not to scale

5/8"øx8' L

Grd. Rod

Copperweld

in 28 Days

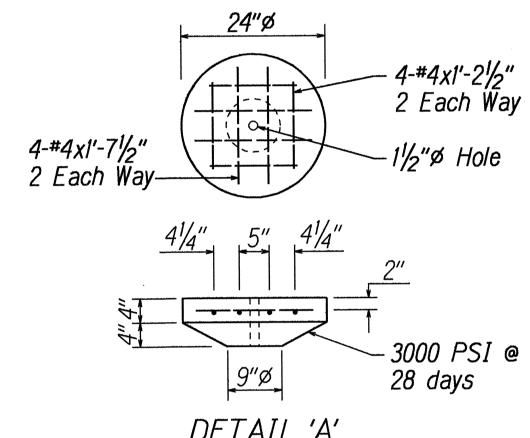
Conc.: 2500 P.S.I.

B- Light Number, See Plan

1. Tag shall be made from 3 ply black-white-black laminated plastic.

2. Attach to steel pole w/no. 7 cadmium plated drive screws

3. Attach to fiberglass pole per manufacturer's recommendation.

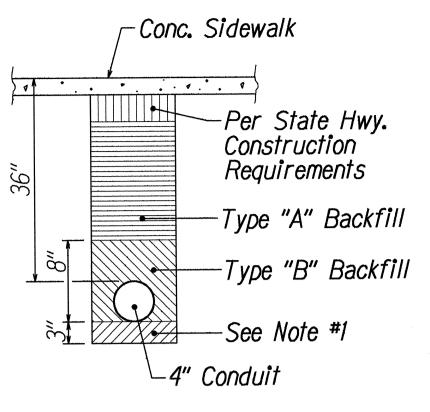


Refer to HTCo. Dwg. No. 34021

Trench to Equal width of Digging Bar __Direction of Load 16" (Approx.) -Undisturbed Earth -Anchor Rod to be In-Line with the Guy See Backfill w/Excavated Note Earth & Available Rocks. Above Tamp Solid. Fill w/Soil 6" Above Deadman 24" Conc. Deadman, 6"x6"x½" Galv._/ Square Washer See Detail 'A'

ANCHOR DETAIL Not to scale

FISCAL YEAR SHEET NO. FED. ROAD DIST. NO. STATE PROJ. NO. 93B-02-91 1994 113 HAW. HAWAII



DUCT SECTION

Not to scale

TYPE "A"

Beach sand, earth or earth \$ gravel. If earth \$ gravel used, max. rock size shall be 1" 🛊 mixture shall contain not more than 50% by volume of rock particles.

TYPE "B"

Same as Type "A" except that if earth # gravel used, the mixture shall pass a 1/2" mesh screen \$ contain not more than 20% by volume of rock particles.

NOTE #1

If the normal material in the bottom of the trench is not Type "B", an additional 3" shall be excavated \$ Type "B" backfull shall be provided

BACKFILL DATA

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

SYMBOL LIST & DETAILS

FARRINGTON HIGHWAY WIDENING Ala Hema Street to Jade Street Project No. 93B-02-91

Scale: As shown

Date: Jan., 1994 SHEET No. W-4 OF 4

SHEETS 113