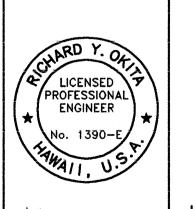


FED. AID FISCAL SHEET TOTAL PROJ. NO. YEAR NO. SHEETS FED. ROAD DIST. NO. 64 HAWAII IM-H2-1(30) 2000



9/13/99

DATE

REVISED DUCT SECTIONS P, Q, R, S, T, V, W.

REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

E-2

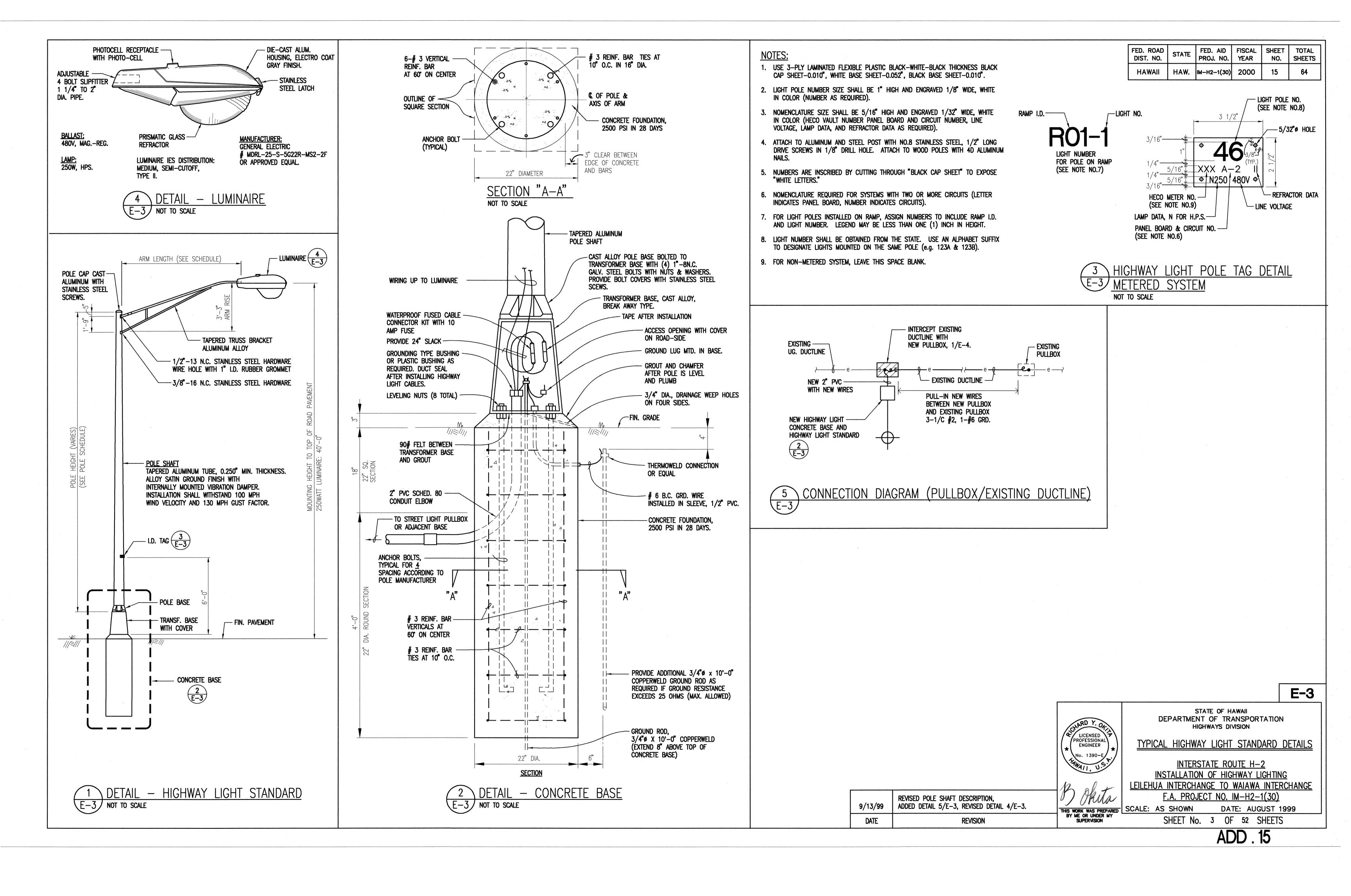
TYPICAL DUCT SECTIONS

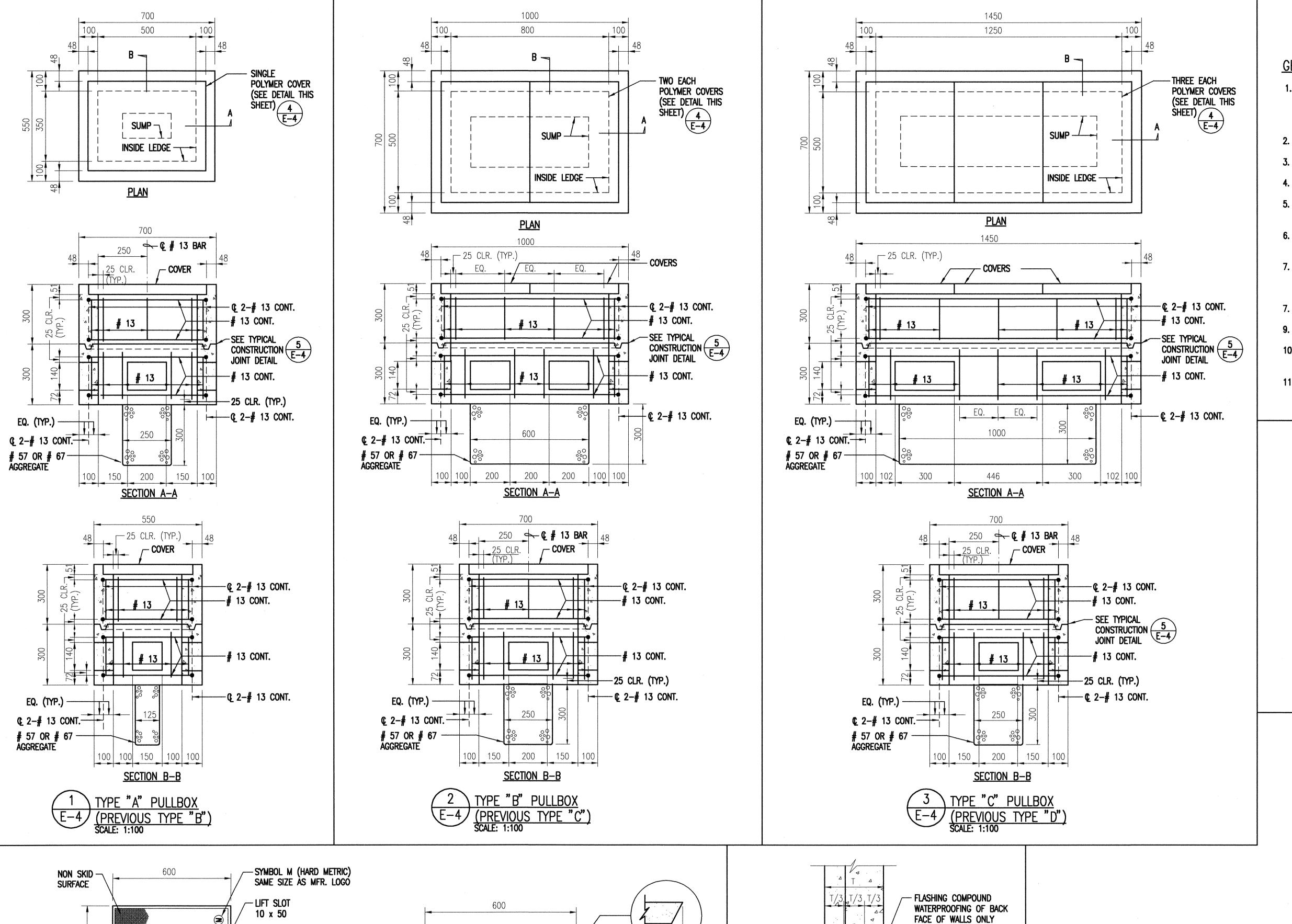
INTERSTATE ROUTE H-2
INSTALLATION OF HIGHWAY LIGHTING

THIS WORK WAS PREPARED SCALE: AS SHOWN SUPERVISION LEILEHUA INTERCHANGE TO WAIAWA INTERCHANGE F.A. PROJECT NO. IM-H2-1(30) DATE: AUGUST 1999

SHEET No. 2 OF 52 SHEETS

ADD . 14





594

**ELEVATION** 

- HIGHWAY LIGHT

4 POLYMER CONCRETE COVER E-4 NOT TO SCALE

MANUFACTURER'S —\\_\\_\LOGO

SLOPE 1/4:1 —

TYPICAL CONSTRUCTION

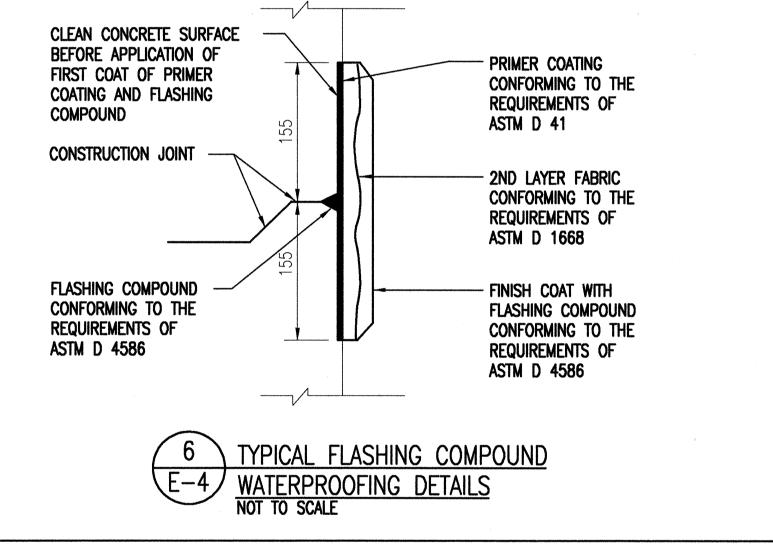
JOINT DETAIL

NOT TO SCALE

FED. AID | FISCAL | SHEET FED. ROAD STATE DIST. NO. YEAR NO. PROJ. NO. SHEETS HAW. M-H2-1(30) 2000

## **GENERAL NOTES:**

- 1. PROVIDE A MINIMUM OF ONE 160 x 2.5M COPPERWELD GROUND ROD IN EACH PULLBOX. WHEN DIRECTED BY THE TRAFFIC SIGNAL INSPECTOR/ENGINEER, INSTALL ADDITIONAL GROUND RODS. COST OF GROUND RODS SHALL BE INCIDENTAL TO THE PULLBOXES.
- 2. ALL PRE-CAST CONCRETE PULLBOXES SHALL BE MANUFACTURED IN TWO PIECES.
- 3. THE PULLBOX WITH COVER SHALL BE CAPABLE OF SUPPORTING AN MS 18 LOADING.
- 4. THE MAXIMUM WEIGHT OF THE PULLBOX COVER SHALL NOT EXCEED 27 KILOGRAMS.
- 5. THE OPENINGS FOR THE CONDUIT ON ALL PULLBOXES SHALL BE PRE-CAST CONCRETE KNOCKOUTS.
- 6. AFTER INSTALLING THE CONDUITS IN THE OPENINGS OF THE PULLBOXES, THE CONTRACTOR SHALL FILL THE EXCESS OPENING IN THE PRE-CAST KNOCKOUTS WITH CONCRETE MORTAR.
- PRIOR TO INSTALLING THE PULLBOXES, THE CONTRACTOR SHALL LEVEL THE BOTTOM OF THE TRENCH AND ACHIEVE A MINIMUM OF 95% RELATIVE COMPACTION OF THE BOTTOM OF THE TRENCH.
- 7. ALL CONCRETE SHALL BE CLASS A (25MPA, MIN.).
- REBARS SHALL BE GRADE 300 AND ALL LAPPED SPLICES SHALL BE 360MM MINIMUM.
- 10. THE # 57 OR # 67 SIZE AGGREGATE SHALL CONFORM TO LATEST VERSION OF AASHTO M43 (ASTM D 448).
- 11. TYPE "C" PULLBOX SHALL BE INSTALLED IN A LOCATION PROTECTED FROM VEHICULAR TRAFFIC (I.E. RAISED SIDEWALK, BEHIND A.C. CURBS, TRAFFIC SIGNAL STANDARD OR PIPE GUARDS).



NOTE: ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

LICENSED PROFESSIONAL ENGINEER

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

## PULLBOX AND COVER DETAILS

INTERSTATE ROUTE H-2 INSTALLATION OF HIGHWAY LIGHTING LEILEHUA INTERCHANGE TO WAIAWA INTERCHANGE F.A. PROJECT NO. IM-H2-1(30)

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION

LEILLHUA INTL

F.A. Ph

SCALE: AS SHOWN DATE: AUGUST 1999

SHEET No. 4 OF 52 SHEETS

E-4

