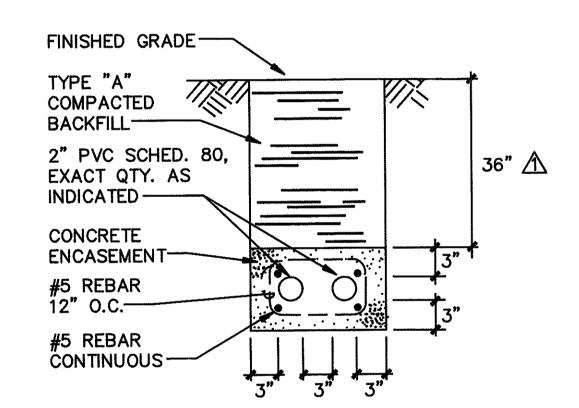


TYPICAL STREET LIGHT DUCT SECTION (DIRECT BURIED) E-16 NOT TO SCALE

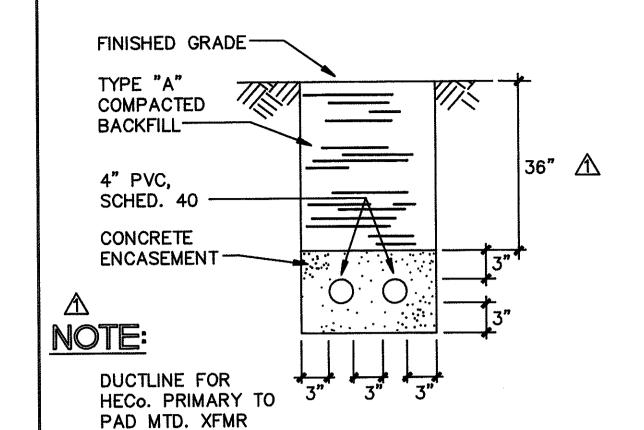


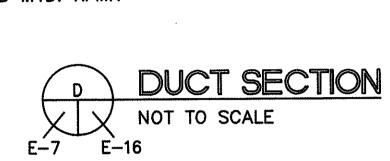


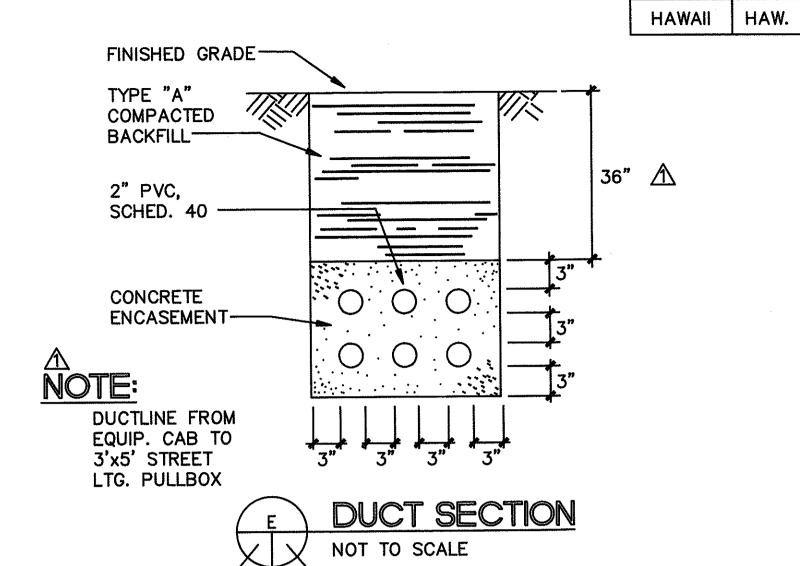


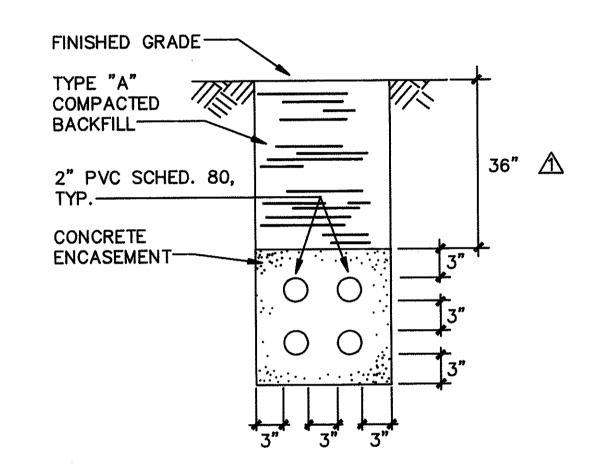
NOTES:

- 1. ALL CONDUIT SHALL BE "PVC" SCHED. 80 FOR DIRECT BURIED OR CONCRETE ENCASEMENT, U.O.N.
- 2. BACKFILL OVER CONCRETE DUCT SECTIONS SHALL BE TYPE "A"
- BACKFILL OVER DIRECT BURIED CONDUITS SHALL BE
- IF THE NORMAL MATERIAL IN THE BOTTOM OF A TRENCH CONTAINING A DIRECT BURIAL CONDUIT IS NOT TYPE "B" AN ADDITIONAL 3" SHALL BE EXCAVATED AND TYPE "B" BACKFILL PROVIDED.
- - THE CONTRACTOR IS HEREBY ADVISED TO EXPECT THAT ALL EXCAVATION FOR ELECTRICAL DUCTS, HANDHOLES AND MANHOLES IS LIKELY TO ENCOUNTER SOLID ROCK REQUIRING DRILLING AND BLASTING.
- 7. CONCRETE FOR DUCTS TO BE 2500 P.S.I. IN 28 DAYS.

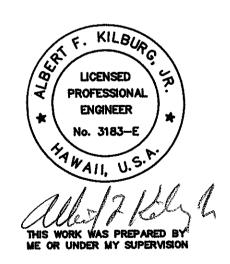












FISCAL SHEET YEAR No.

23

TOTAL SHEETS

29

FED. AID PROJ. No.

IR-H1-1 (212) 1992

FED. ROAD STATE

E-16

APPROVED:		
HAWAIIAN ELECTRIC CO. DATE	7/6/92	ADD NOTES TO DUCT DETAIL.
DVM JOB No.: 89104 CAD FILE No.: 89104E16-B		REVISE BURIAL DEPTH TO 36".

DATE

REVISION

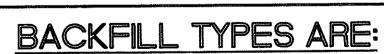
DUCT DETAILS

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

INTERSTATE ROUTE H-1 KUNIA I.C. TO WAIAWA I.C. PROJECT No. IR-H1-1(212)

SCALE: AS NOTED

SHEET No. 13 OF 14 SHEETS



TYPE "A". BEACH SAND, EARTH, OR EARTH AND GRAVEL. IF EARTH AND GRAVEL USED, THE MAXIMUM ROCK SIZE SHALL BE 1" AND THE MIXTURE SHALL CONTAIN NOT MORE THAN 50% BY VOLUME OF ROCK PARTICLES.

BEACH SAND, EARTH, OR EARTH AND TYPE "B". GRAVEL. IF EARTH AND GRAVEL USED, MIXTURE MUST PASS A 1/2" MESH SCREEN AND CONTAIN NOT MORE THAN 20% BY VOLUME OF ROCK PARTICLES.

MINIMUM COVER OVER CONCRETE DUCT SECTION SHALL BE 36"