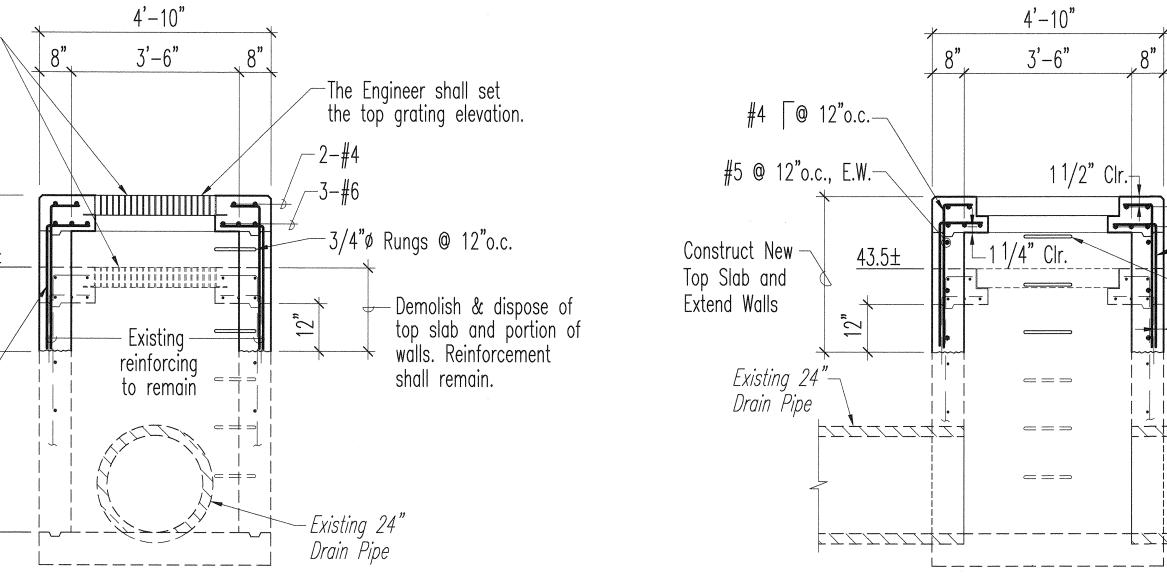


Notes:

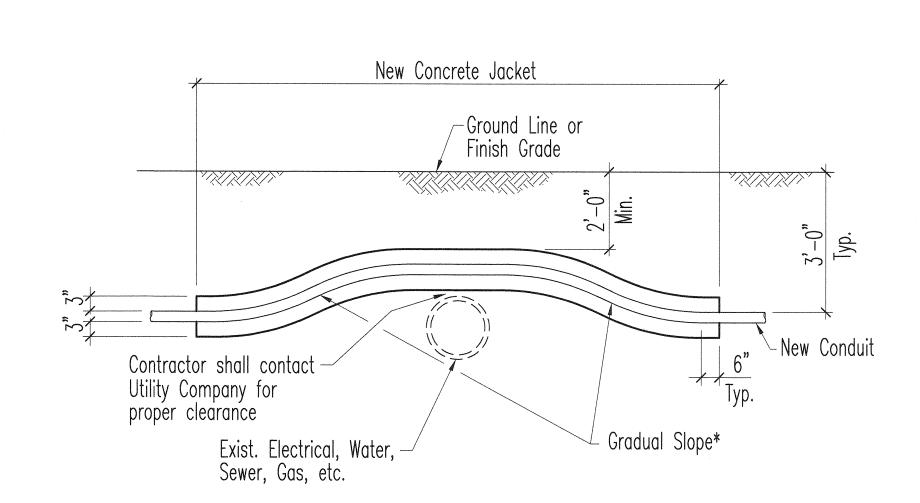
- 1. Concrete Notes:
- Concrete strength 2,500 p.s.i. in 28 days. b) Maximum aggregate for Duct Line concrete -3/4".
- 2. Backfill:
- Type "A" Beach sand, earth or earth & gravel. If earth & gravel, the minimum rock size shall be 1" and the mixture shall contain not more than 50% by volume of rock particles.

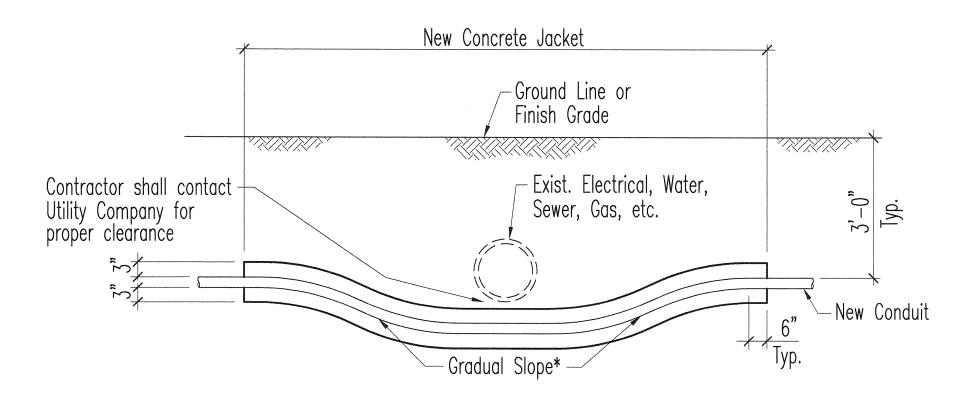
ELEC. SERVICE DUCT LINE DETAIL 3
Not to Scale

Salvage and clean—existing frame and grating. Reinstall frame & grating in New Top Slab. —The Engineer shall set the top grating elevation. -3/4"ø Rungs @ 12"o.c. Construct New -43.5± Top Slab and Extend Walls - Demolish & dispose of Existing — reinforcing shall remain. to remain Lap reinforcement 2'-0" min. Inv. 38.0± Drain Pipe



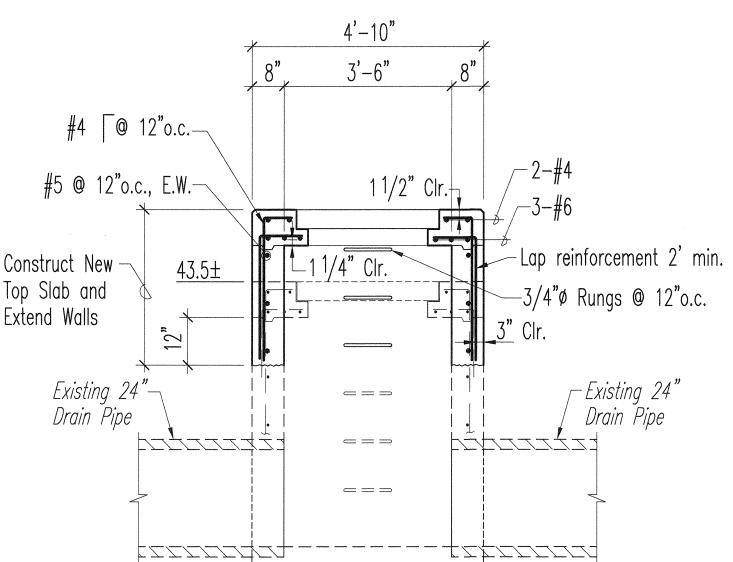




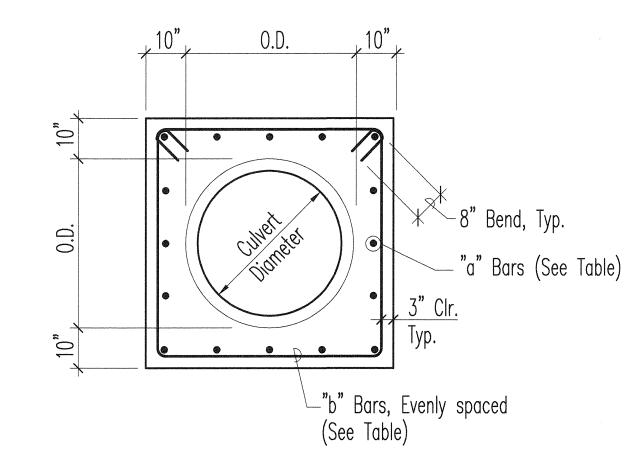


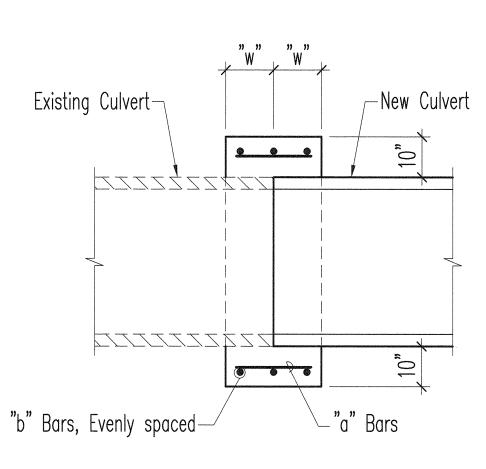
* To be determined by County Electrical Inspector/Engineer.

CONDUIT BY-PASS DETAIL AT VARIOUS UTILITIES 4 Not to Scale



SECTION B 33





FED. ROAD STATE

ELEVATION

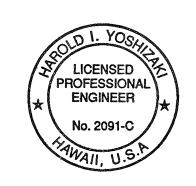
SECTION

Culvert Diameter	"a" Bars	"b" Bars	" " W
18" to 30"	#4 @ 9"	3-#4	12"
36" to 48"	#5 @ 9"	4-#4	15"

Notes:

- 1. Reinforcing steel for Concrete Collar shall conform to the requirements of ASTM 615, Grade 60.
- 2. Concrete shall be Class A.

TYPICAL DETAILS OF REINFORCED CONCRETE COLLAR 5 33/ Scale: 1/2" = 1'-0"



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.

SHIMABUKURO, ENDO & YOSHIZAKI, INC.

1126 12th Avenue

Honolulu, Hawaii 96816 STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

MISCELLANEOUS DETAILS

KANOELEHUA AVENUE TRAFFIC SIGNAL MODERNIZATION F.A. PROJ. NO. STP-011-2(32)

DATE: OCT. 1998 SCALE: AS SHOWN

SHEET No. 1 OF 1 SHEETS

FISCAL SHEET YEAR NO.

33

1999

SHEETS

34

FED. AID PROJ. NO.

HAWAII HAW. STP-011-2(32)

