

duct section for number \$ size of ducts.

(STATE RIGHT-OF-WAY) TRENCH RESTORATION DETAIL

Trench

Width

restored to equal or

better than original

SURVEY PLOT
DRAWN BY K
TRACED BY _
DESIGNED BY
QUANTITIES I
CHECKED BY

thickness and quality.

restored to equal or

better than original

thickness and quality.

Scale: 1/2" = 1'-0" New A.C. pav't Mix IV & Base -Symmetrical about Course to match exist. or min. ∉ of duct bank 21/2" A.C., over min. 6" Base Course whichever is greater. Match Sawcut and remove exist. sidewalk with like mat'l if ATB or at score lines and exist. curb \$ conc. is encountered. gutter at nearest joint, if less than 4 feet. Sawcut exist. A.C. pav't min. prior to trenching -New conc. sidewalk 4" min. thick, Sawcut exist. A.C. pav't reinforcing, over 6" min. select borrow or match exist, whichever is greater. prior to repaying — Finish grade -- Exist. conc. sidewalk Apply tack coat 18" min. -Type "B" fill or native Apply prime coat material conforming to section ΦΦ 11.3, paragraph 2 of the City and 18" select borrow sub-base County Standard Specifications unless soil test data for Public Works Construction, Sept., 1986. Trench indicate otherwise. < Width 1. Pavement shall be

New conc. duct encasement. See typical duct section fro number ₱ size of ducts. (CITY RIGHT-OF-WAY)

NOTES FOR CONSTRUCTION WITHIN STATE RIGHT-OF-WAY

- Construction and restoration of all existing highway facilities within State right-of-way shall be done in accordance with all applicable sections of the current Standard Specifications for Road and Bridge Construction, and the Specifications for Installation of Miscellaneous Improvements within the State highways, of the State Highways Division.
- 2. All lanes shall be opened to traffic during the morning peak hours from 6:00 A.M. TO 8:30 A.M. and during the afternoon peak hours from 3:30 P.M. TO 6:00 P.M., and during off-work hours. Only one lane of roadway shall be closed at any other time.
- 3. No material and/or equipment shall be stockpiled or otherwise stored within highway rights-of-way except at locations designated in writing and approved by the District Engineer.
- 4. Prior to commencing trench excavation work, the Contractor shall take a profile along the new centerline of utility trench, and that information shall be used in the verification of restoring the roadway to its original condition. A copy of the profile shall be submitted to the District Engineer.
- 5. The Contractor shall be required to provide adequate, safe, non-skid bridging material over the trench, including shoring, when trenching in pavement areas, to handle all types of vehicular traffic.
- 6. No trench shall be opened more than 200 feet in advance of the installed and tested pipe and/orductline...
- Longitudinal drainage along the highway shall be maintained.
- 8. All existing utilities, whether or not shown on the plans, shall be protected at all times by the Contractor during construction and any damages to them shall be repaired and paid for by the Contractor.

GENERAL NOTES

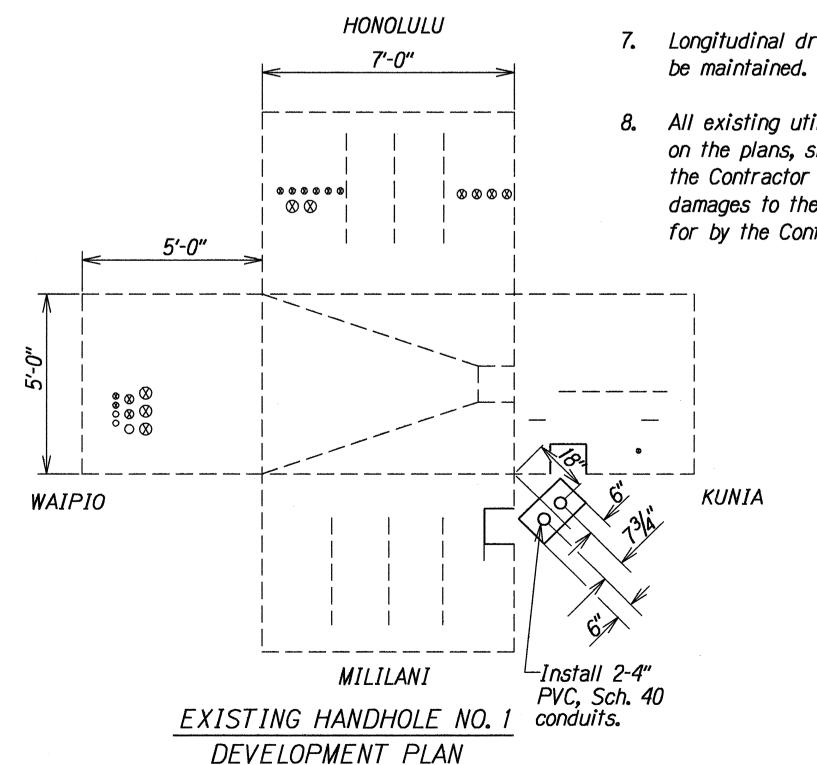
- All construction work within County right-of-way shall be done in accordance with the Standard Specifications for Public Works Construction, Sept. 1986, and Standard Details for Public Works Construction, Sept. 1984, as amended, of the Department of Public Works, City and County of Honolulu.
- 2. The underground pipes, cables or duct lines known to exist by the Engineer from his search of records are indicated on the plans. The Contractor shall verify the locations and depths of the facilities and exercise proper care in excavating the area. The Contractor shall be responsible for any damages to the facilities whether shown or not on the plans.
- 3. The Contractor shall notify OTS, Ed Sniffen or Trask Huddy (848-4571), two weeks prior to construction. informing them of location of project, scope of work, proposed closure of any street or traffic lanes, and the need to relocate any bus stop.
- 4. The Contractor, at his own expense, shall keep the project area free from dust nuisance. The work shall be in conformance with the Air Pollution Control Standards and Regulations of the State Department of Health.
- 5. The cables in these areas are encased, buried and energized. These energized, encased, buried cables are to remain in place during construction. Cables in service boxes, transformer vaults and handholes are also energized. Only Hawaiian Electric Co. men are to handle these cables and erect temporary guards to protect these cables from damage. Contractor to exercise care and precautions to avoid distrubance of energized cables and temporary guards and shall work cautiously to avoid accidents. The Contractor shall coordinate his work with HECO U.G. Division and Inspection Division (PHONE: 543-5668).
- 6. The Contractor shall notify the City and County Department of Public Works', Division of Engineering, Construction Branch, Seven (7) days prior to commencement of construction.
- Where necessary, reconstruction of sidewalk, gutter and driveway areas shall conform to the standard details to the governmental agency having jurisdiction over the work.
- Whenever connections of new utilities to existing utilities are shown on the plans, the Contractor shall expose the existing lines at the proposed connections to verify their locations and depths prior to excavation for the new lines.

DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION DETAILS & GENERAL NOTES

STATE OF HAWAII

KAMEHAMEHA HIGHWAY WIDENING Lumiaina Street to Waipio Uka Street Project No. NH-099-1(9)

Scale: As shown Date: Oct., 1994 SHEET No. 2 OF 3



Scale: 3/8" = 1'-0"

TRENCH RESTORATION DETAIL Scale: 1/2" = 1'-0"

APPROVED:

HAWAIIAN ELECTRIC COMPANY

4/7/94

DATE

SHEETS

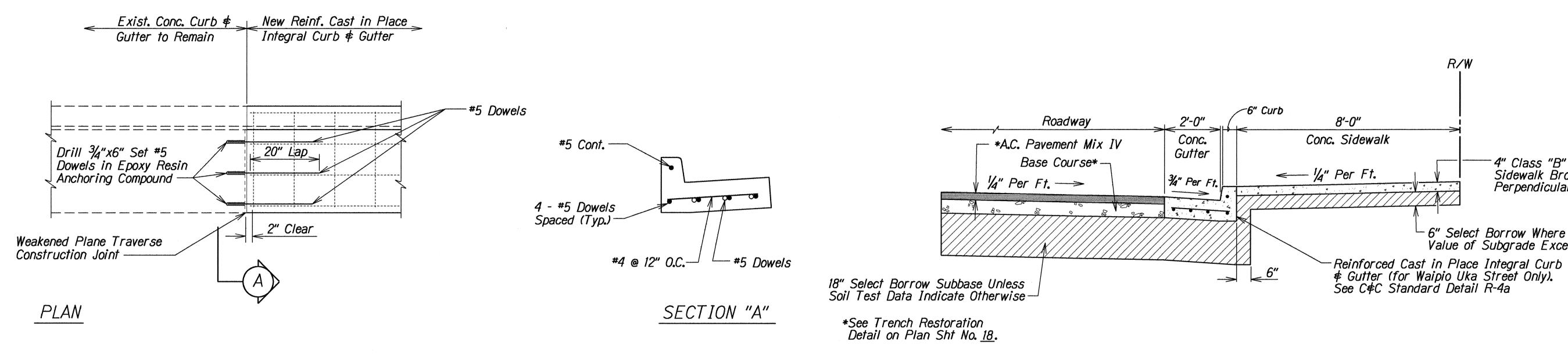
FED. ROAD DIST. NO. FISCAL SHEET TOTAL YEAR NO. SHEETS FED. AID STATE PROJ. NO. **HAW.** NH -099 - 1(9) 1993 19

-4" Class "B" Concrete Sidewalk Broom Finish

Perpendicular to Curb

- 6" Select Borrow Where Expansion Value of Subgrade Exceeds 3%

R/W

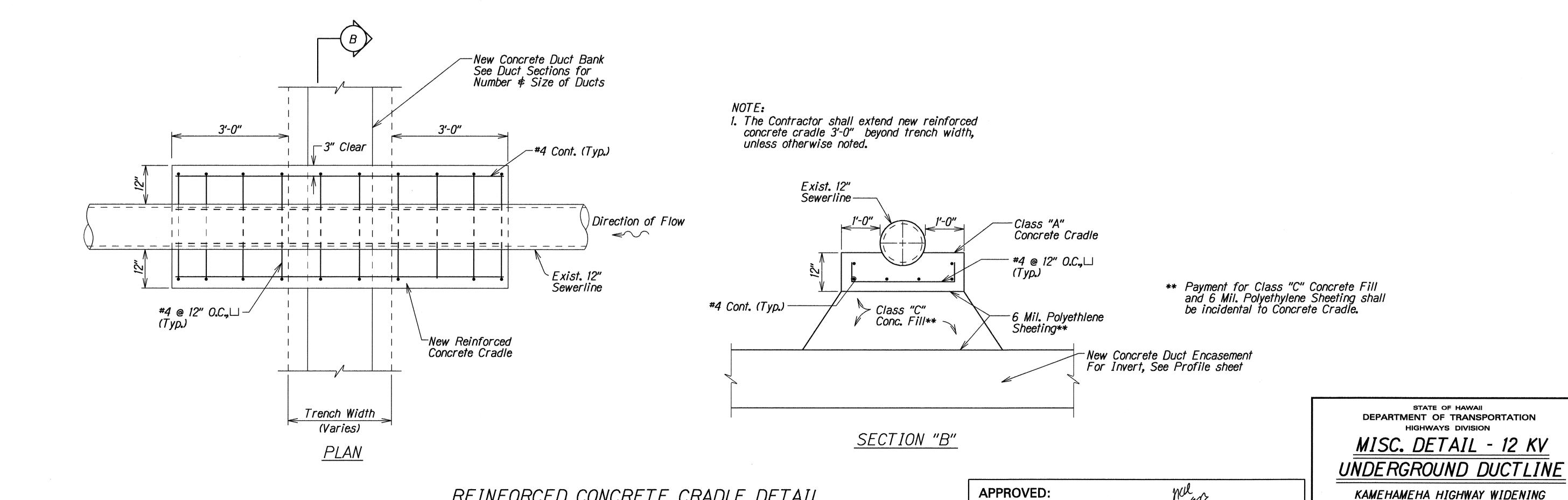


CONNECTION DETAIL-REINFORCED CAST IN PLACE INTEGRAL CURB & GUTTER Scale: 3/4"=1'-0"

ORIGINAL BURNEY PLOTTED B DRAWN BY G. Atibul TRACED BY DESIGNED BY BY GOANTTIES BY GUANTTIES BY CHECKED BY CHECKED BY

CURB, GUTTER AND SIDEWALK RESTORATION DETAIL Scale: 1/2" = 1'-0"

HAWAIIAN ELECTRIC COMPANY



REINFORCED CONCRETE CRADLE DETAIL

Scale: 3/4"=1'=0"

19

SHEETS

Date: Oct., 1993

KAMEHAMEHA HIGHWAY WIDENING

Lumiaina Street to Waipio Uka Street

Federal Aid Project No. NH-099-1(9)

SHEET No. 3 OF 3

4/7/94.

DATE