

Sta. 872+89.23 o/s 25.97' LT.
Drainline Sta. 0+00
Construct: Type 7 GDI, Concrete Jacket
Install: 12" RCP, Cl. IV
(For detail, see sht. no. H3, H4, H5 & Plan Sht. No. 9)
Estimated Quantities
Structure Excavation 41 CY
Restoration of Existing Improvements 422 SF
12" RCP, Cl. IV 110 LF
Type 7 GDI, 1.00 Ft. to 1.99 Ft. 1 Ea
Class "A" Concrete for Conc. Jacket 11 CY
Bed Course Material 7 CY
Reinforcing Steel 1114 Lbs

Sta. 872+54.73 o/s 16.41' RT.
Drainline Sta. 0+54.65
Construct: Type 2 GDI
Install: 18" RCP, Cl. III
(For detail, see sht. no. H2)

Estimated Quantities
Structure Excavation 197 CY
Restoration of Existing Improvements 1645 SF
CRM 4 CY
18" RCP, Cl. III 235 LF
Type 2 GDI, 3.00 Ft. to 3.99 Ft. 1 Ea
Filter Material 1 CY

Sta. 872+76± LT.
Lower 6" Waterline
6 - 6" 1/8 Bends
22 L.F. - 6" D.I. Pipe Cl. 52
2 - 6" Sleeve (12" Long)
1 - ARV w/ Valve Box (WP=90 psi)
4 - Conc. Blocks
2 - Conc. Blocks w/ Struct. Strut
Temporary for Testing
2 - 6" Plug with 2 1/2" Cleanout
2 - Conc. Blocks
(For Waterline Adjustment Plan and Profile, see Plan Sht. No. 9)

Sta. 872+90± LT.
Install New 2" Copper Lateral as shown and reconnect to existing meter box. For detail, see Plan Sht. No. 9

APPROVED:

CHIEF, PLANNING & ENG. BWS

APPROVED:

DIRECTOR, DEPARTMENT OF
PARKS AND RECREATION
City and County of Honolulu

CONSTRUCTION SIGN SCHEDULE (Item No. 621.7120)		
SIGN NO.	LOCATION	MESSAGE
CW20-1d	# Sta. 867+54± Rt.	Road Construction Ahead
CG20-2	# Sta. 867+54± Lt.	End Construction
CW20-1d	# Sta. 877+90± Lt.	Road Construction Ahead
CG20-2	# Sta. 877+90± Rt.	End Construction
TOTAL		4 EACH

Drainline Sta. 2+91
CRM wall
Inv. = 2.75
(For detail, see sht. no. H6)

GENERAL NOTES:

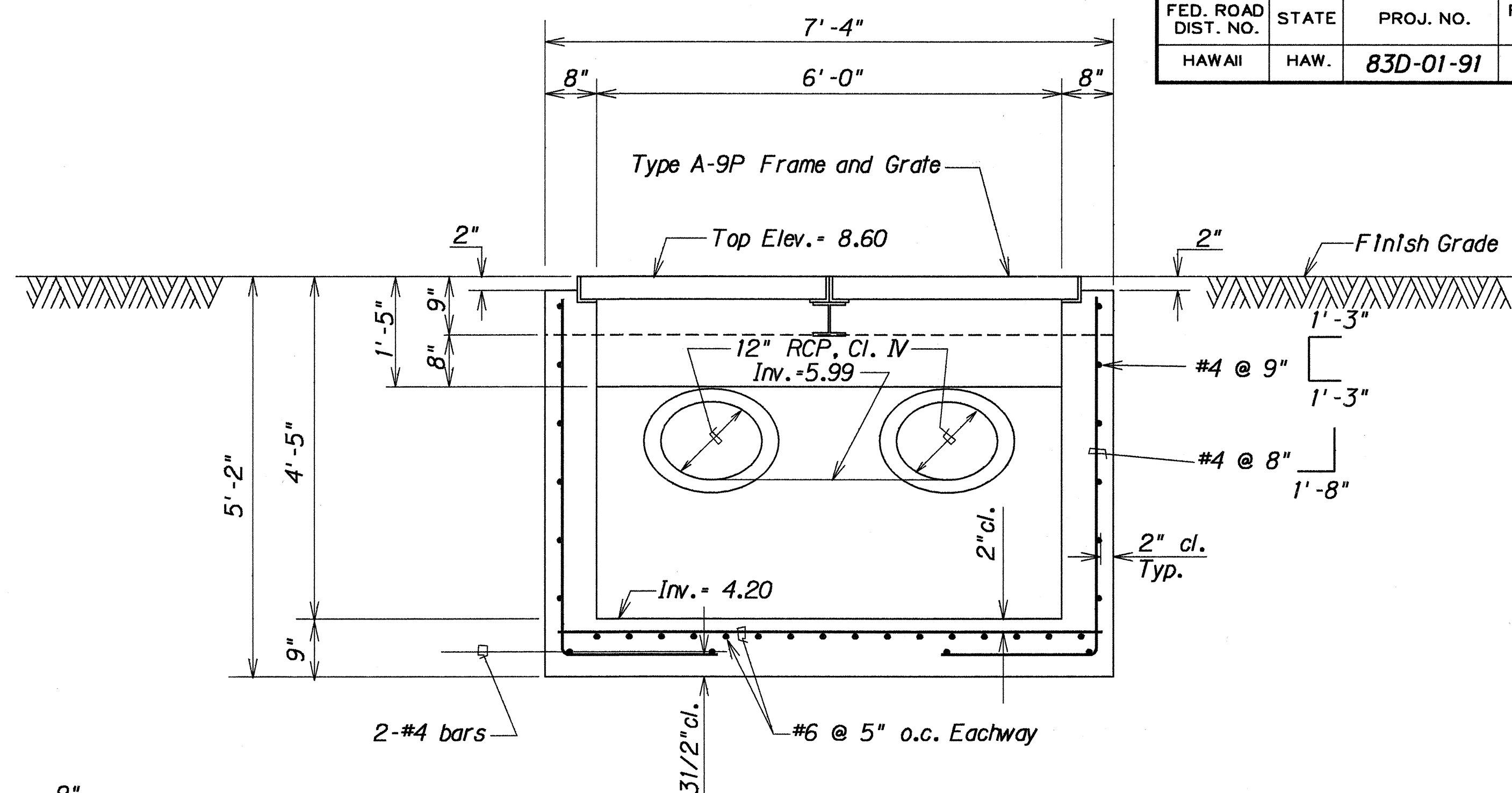
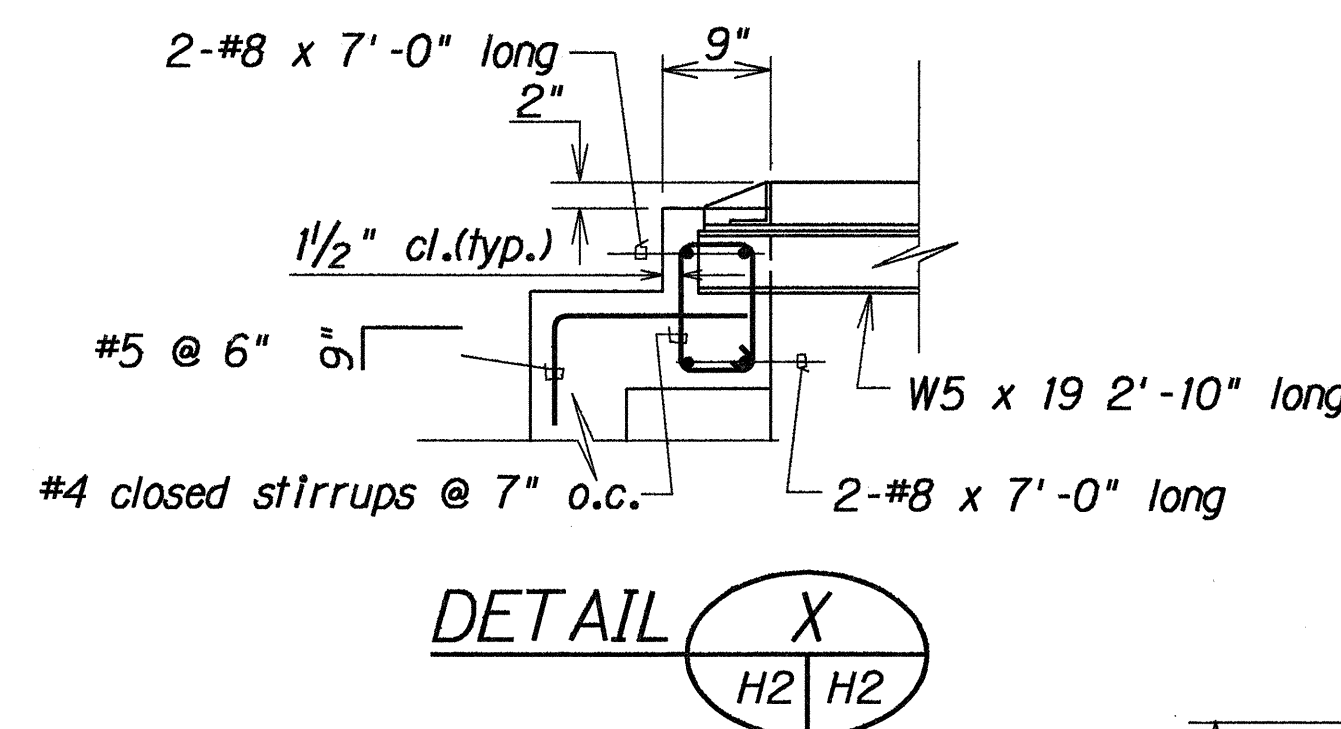
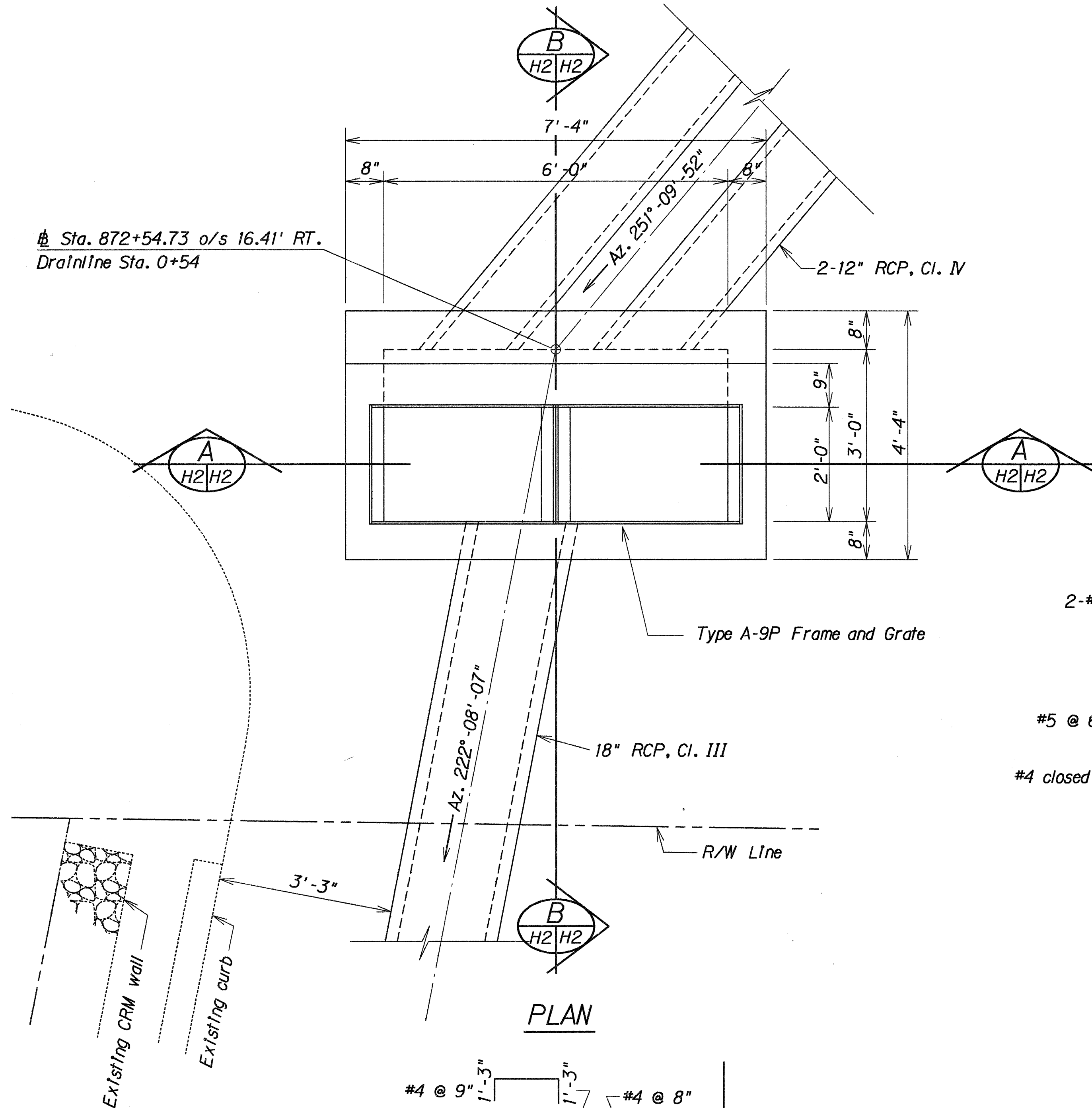
- Existing drainage systems will be functional at all times during construction. The Contractor is to furnish materials, equipment, labor, tools and incidentals necessary to maintain flow. The cost for this work shall be incidental to the various Contract Items.
- The Contractor shall verify the locations of all existing culverts and utilities in the field. Any existing culverts and utilities damaged during construction shall be repaired or replaced by the Contractor at his own expense.
- Concrete shall be Class A unless otherwise noted.
- For added reinforcing around existing and new culverts, see Standard Plan H-04.
- Chamfer all exposed concrete edges 1".
- Culverts within the GDI & Manholes shall be cut flush with the inside face of the wall. Above work shall be considered incidental to the various Contract Items.
- Contractor shall restore grass area to the satisfaction of the Engineer. Above work shall be considered incidental to the various Contract Items.
- Contractor shall reconstruct concrete swale along CRM wall to the satisfaction of the Engineer.
- Contractor shall obtain a Department of Parks & Recreation park use permit prior to construction from the Permit Section.
- One lane of the driveway to the parking lot shall remain open at all times.
- Temporary or permanent stockpiles of fill or construction material shall not be placed below Mean Higher High Water (MHHW). Stockpile locations shall be in areas approved by the Engineer.

2/26/92	Added Exist. Utility Lines
2/11/92	Added Water Meter Relocation
12/28/91	Revised Quantity
DATE	REVISION

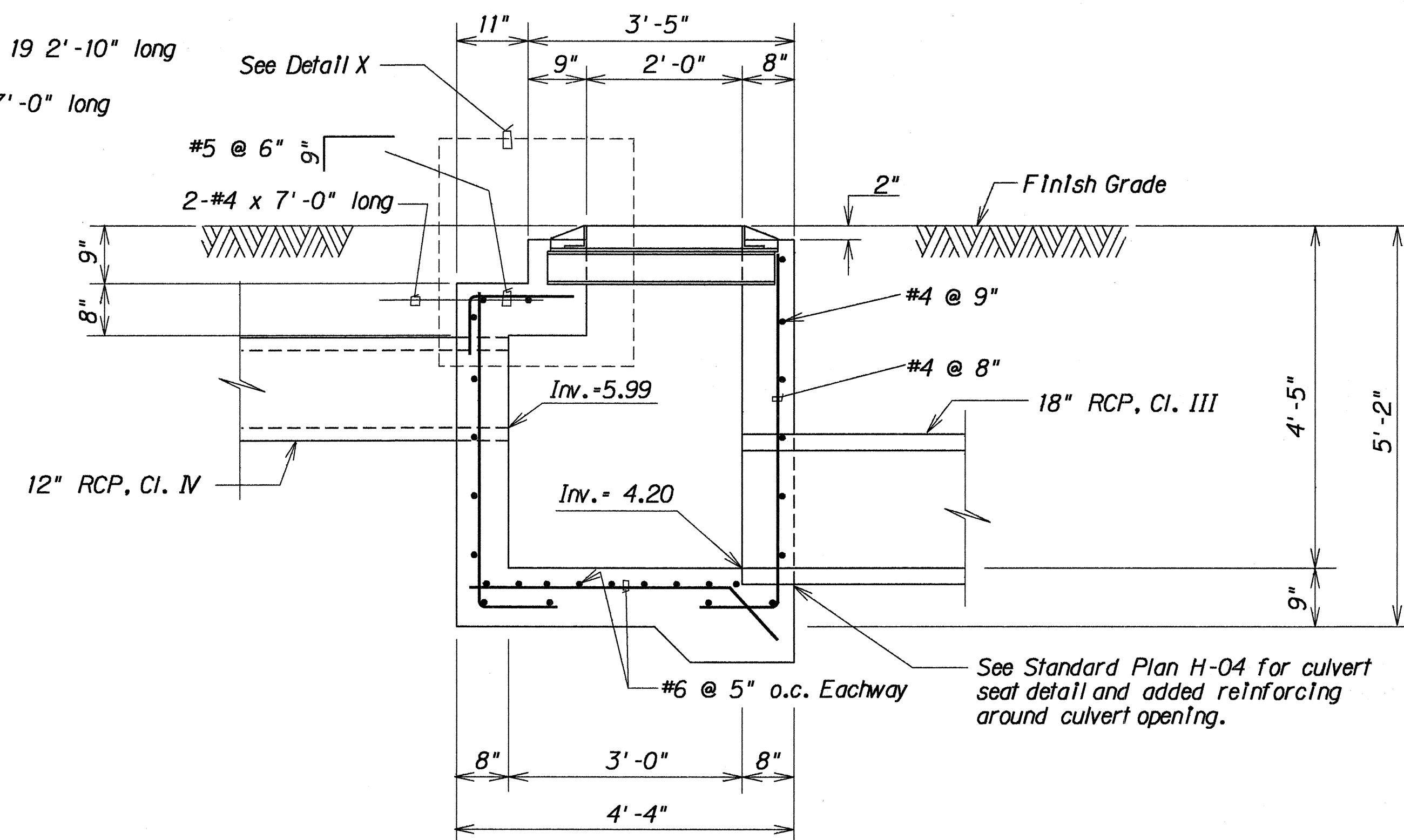
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DRAINAGE PLAN
Kamehameha Highway
Drainage Improvements in the
Vicinity of Swanzy Park
Proj. No. 83D-01-91
Scale: 1"=20' Date: Feb., 1991
SHEET No. H1 OF 6 SHEETS

C.O. ADD. 3

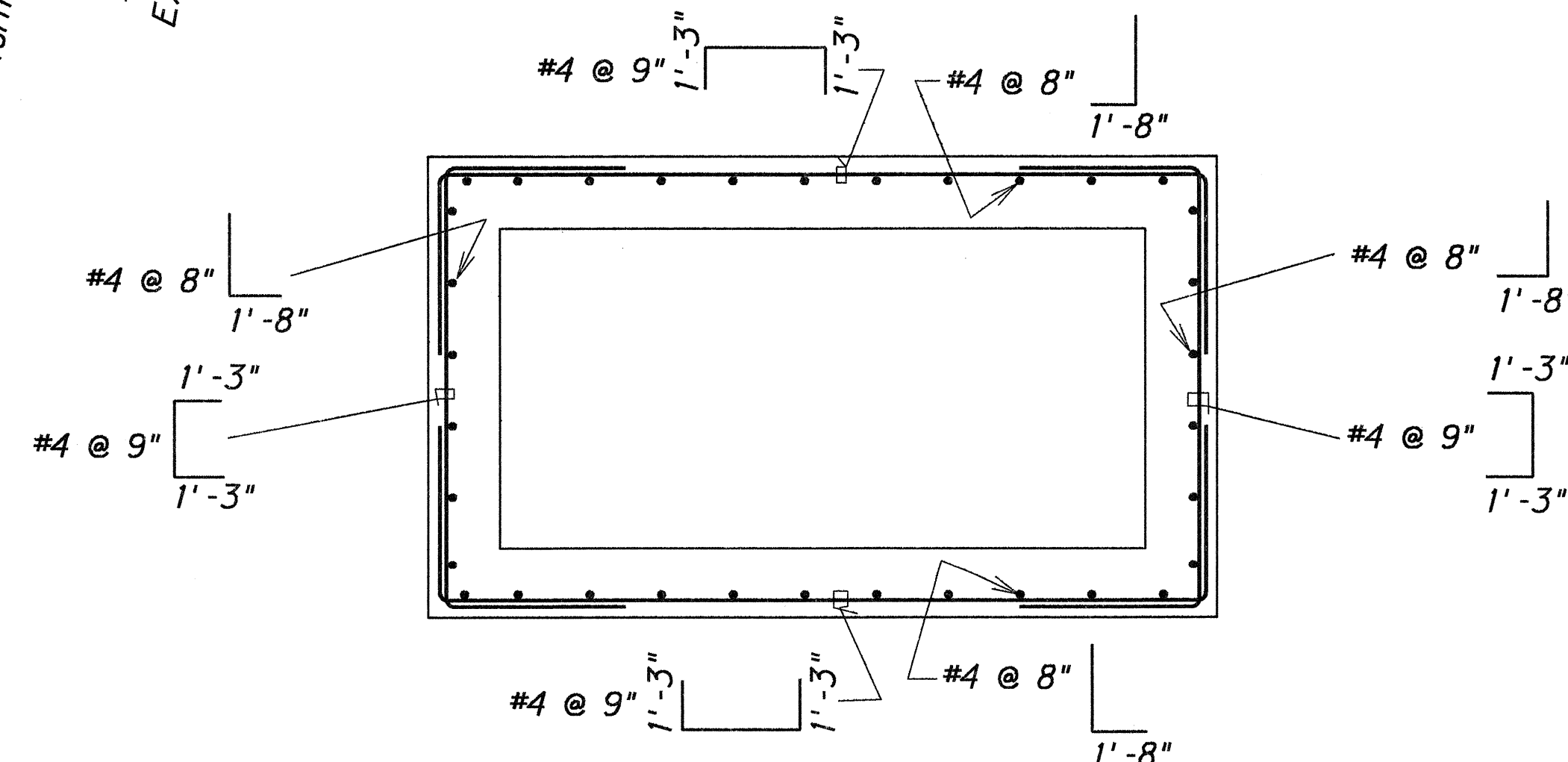
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-91	1992	4	9



SECTION A
H2 H2



SECTION B
H2 H2



PLAN VIEW OF WALL REINFORCING

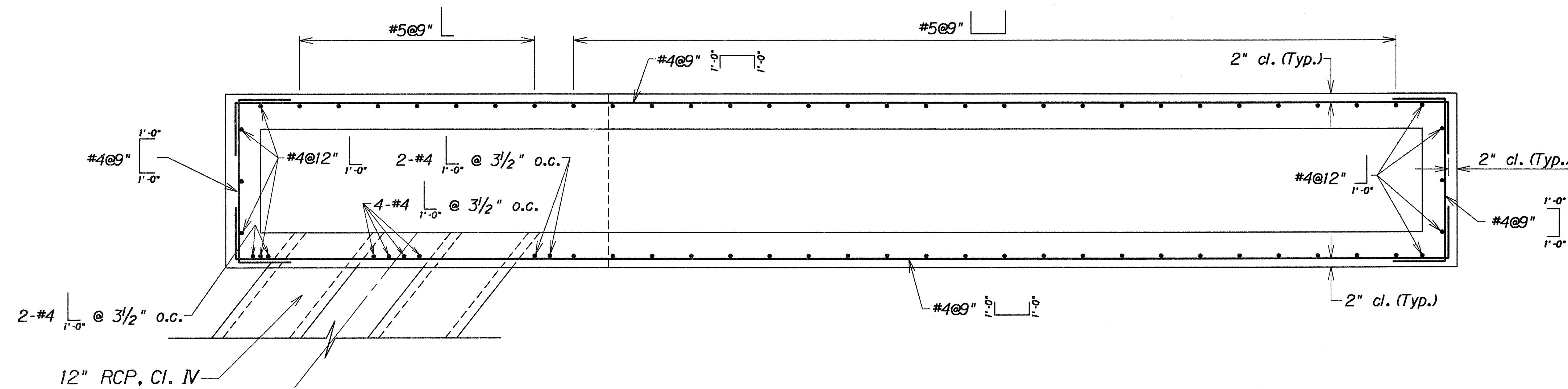
DETAILS OF TYPE 2 GRATED DROP INLET

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

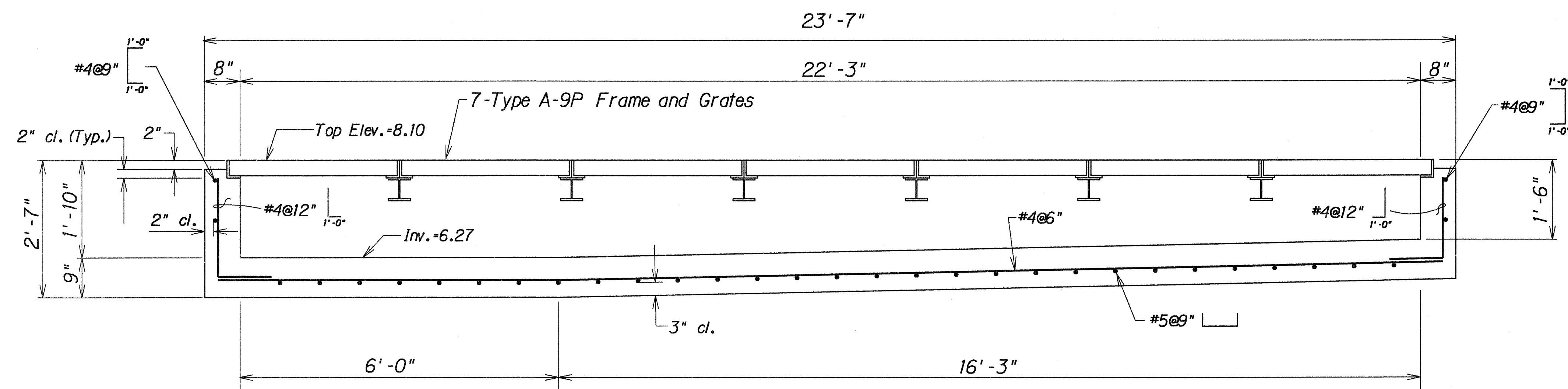
DRAINAGE DETAILS
Kamehameha Highway
Drainage Improvements In the
Vicinity of Swanzy Park
Proj. No. 83D-01-91

Scale: 3/4" = 1'-0" Date: Feb., 1991
SHEET No. H2 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-91	1992	6	9



PLAN VIEW OF WALL REINFORCING



SECTION A
H3 H4

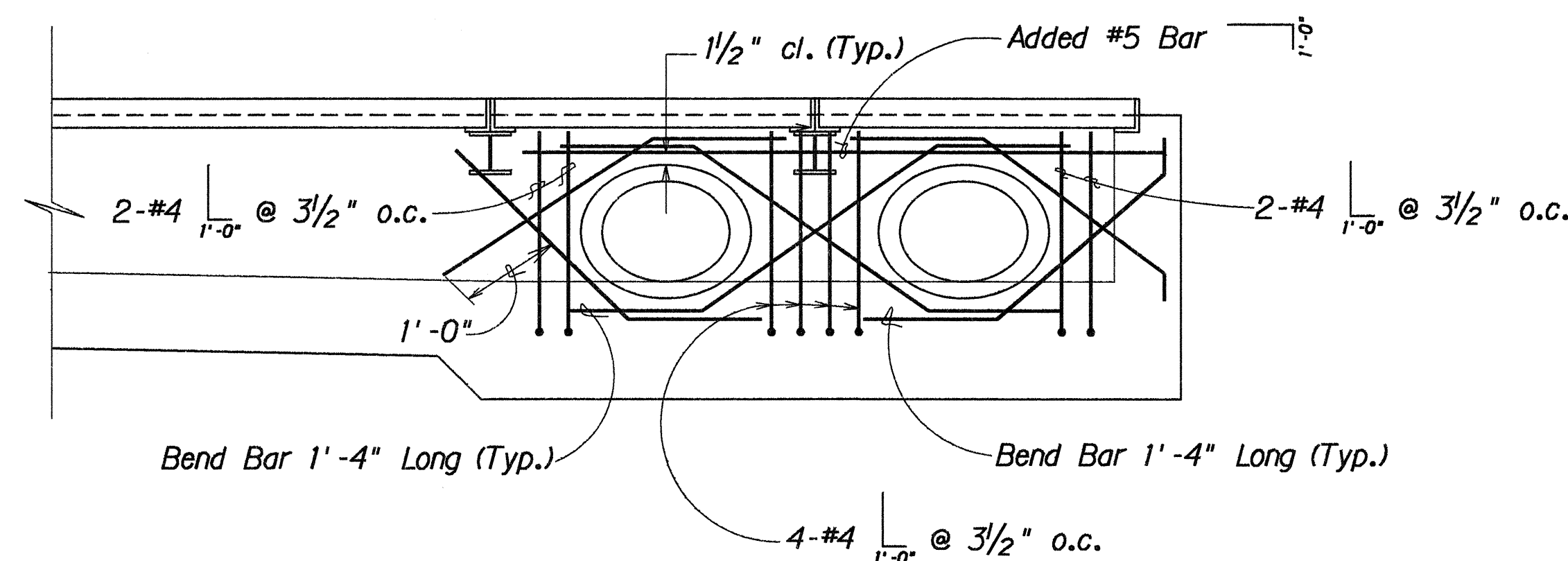
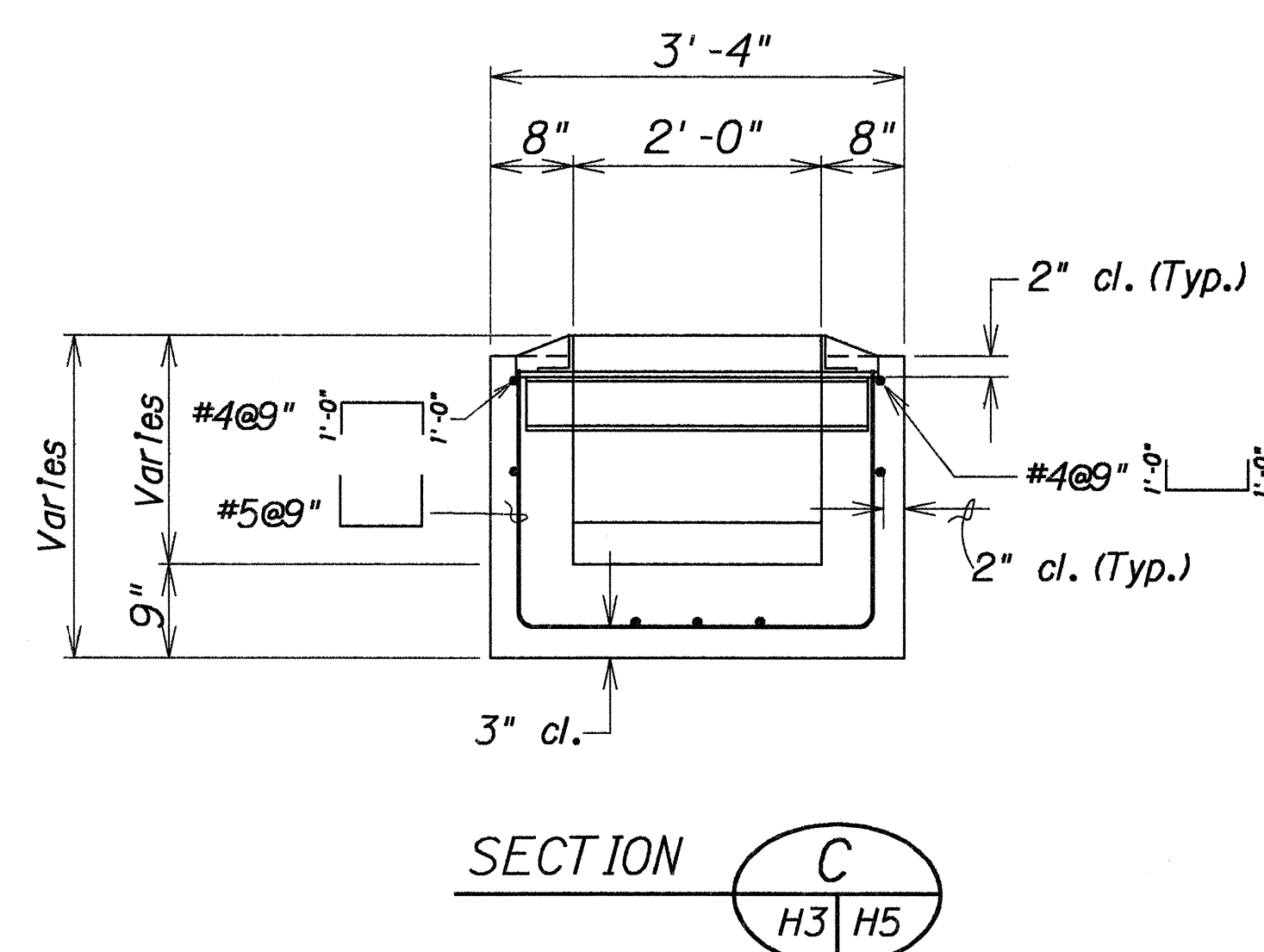
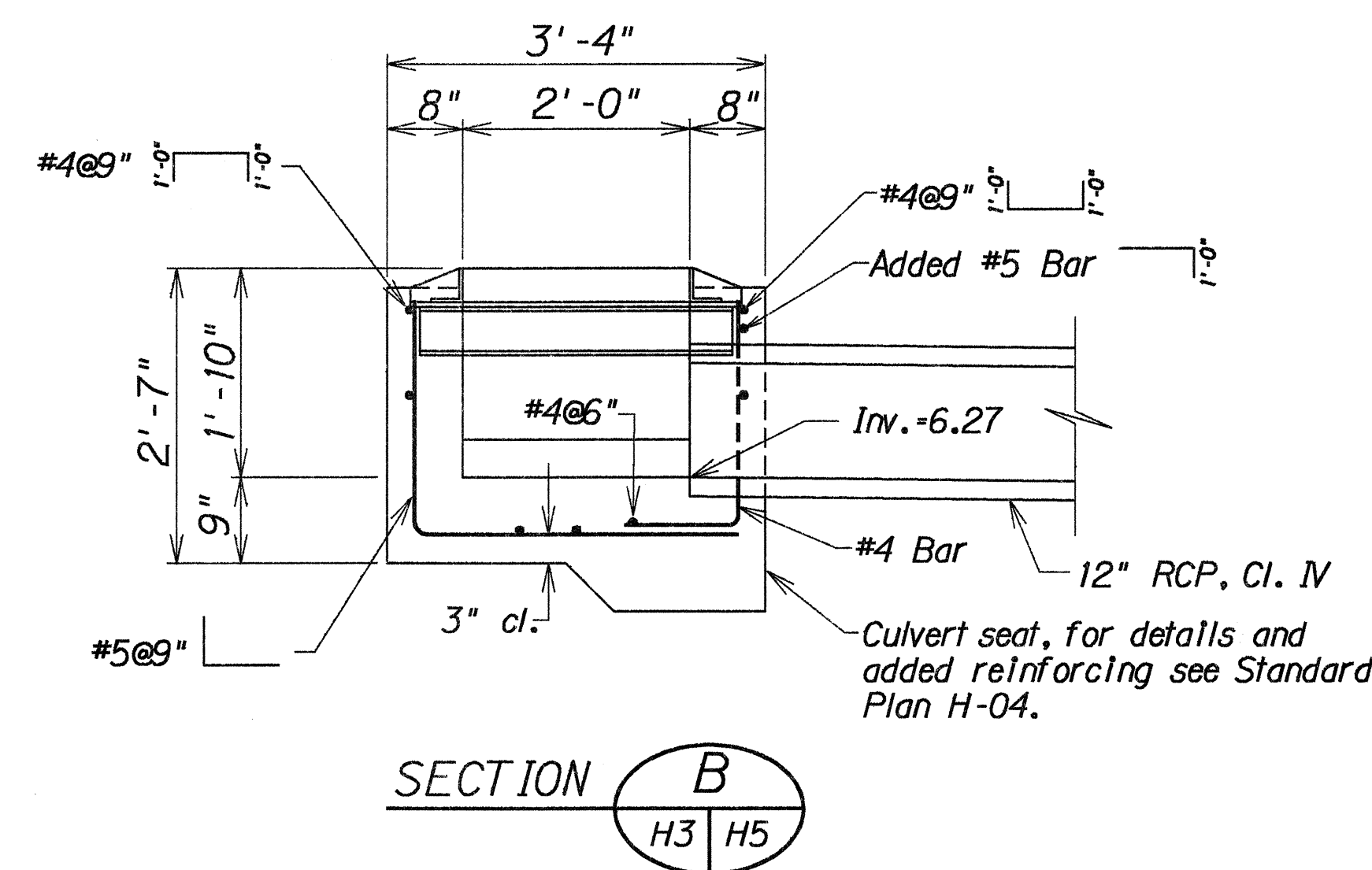
DETAILS OF TYPE 7 GRATED DROP INLET

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DRAINAGE DETAILS
Kamehameha Highway
Drainage Improvements In the
Vicinity of Swanzy Park
Proj. No. 83D-01-91

Scale: $\frac{3}{4}$ " = 1' - 0" Date: June, 1991

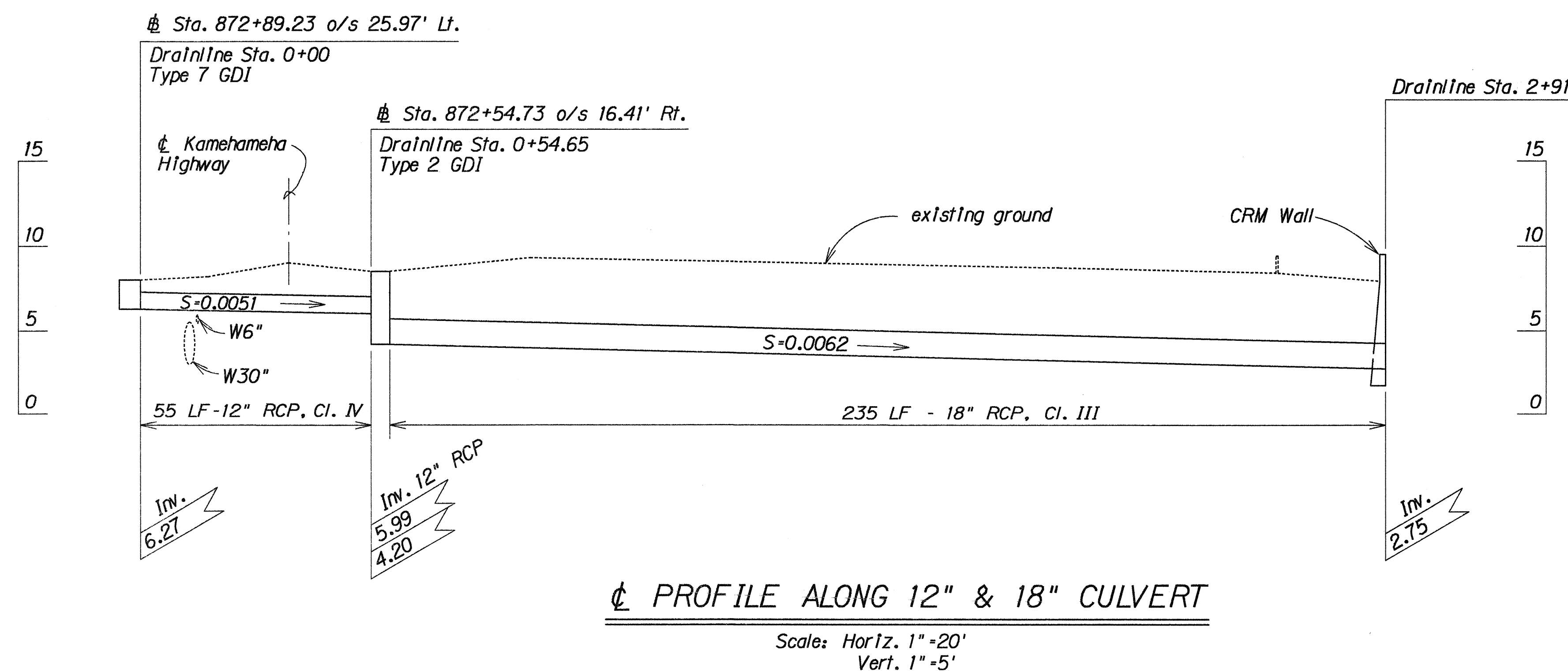
SHEET No. H4 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-91	1992	7	9



DETAILS OF TYPE 7 GRATED DROP INLET

Scale: $\frac{3}{4}$ " = 1'-0"

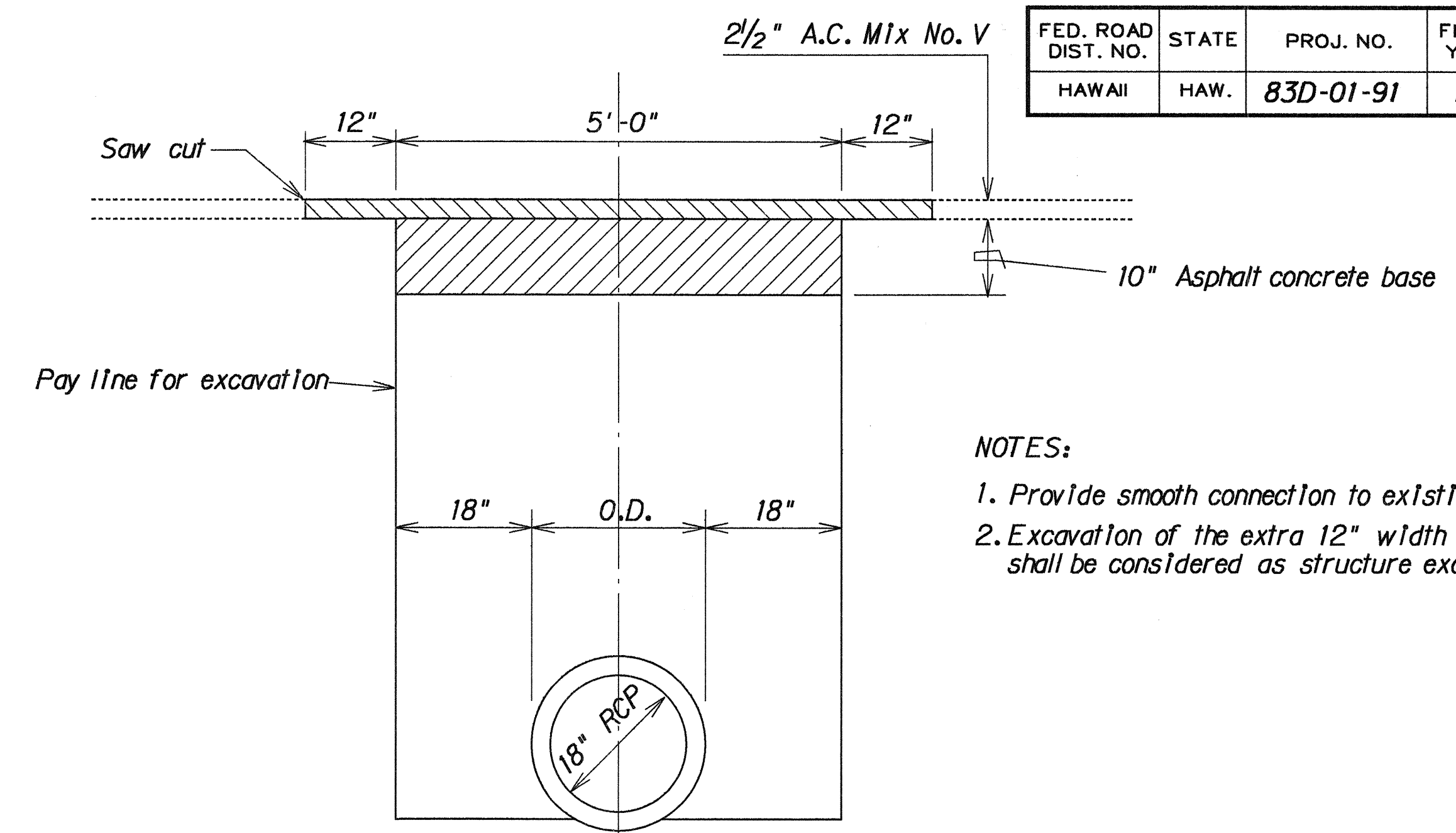
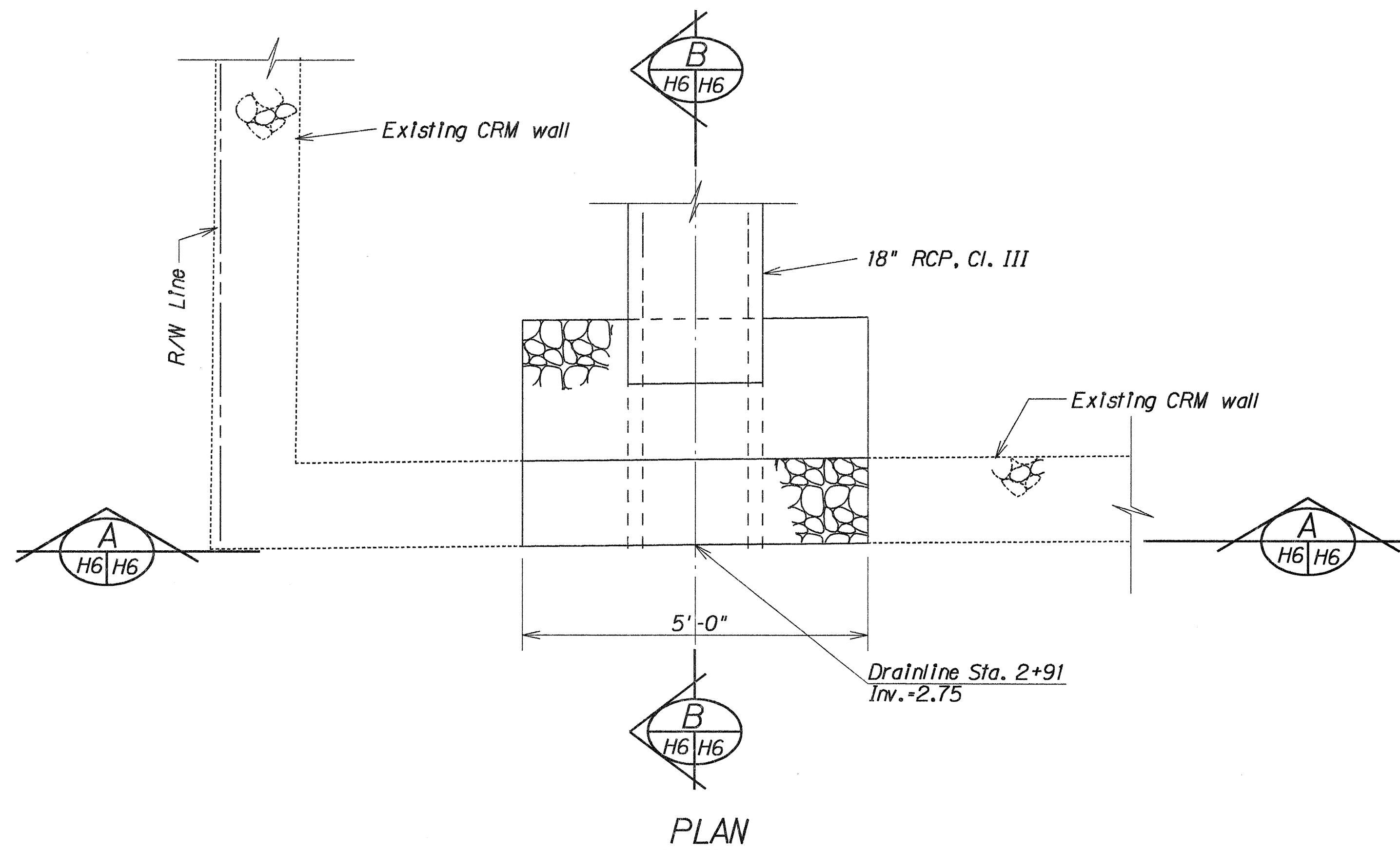


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS
Kamehameha Highway
Drainage Improvements In the
Vicinity of Swanzy Park
Proj. No. 83D-01-91

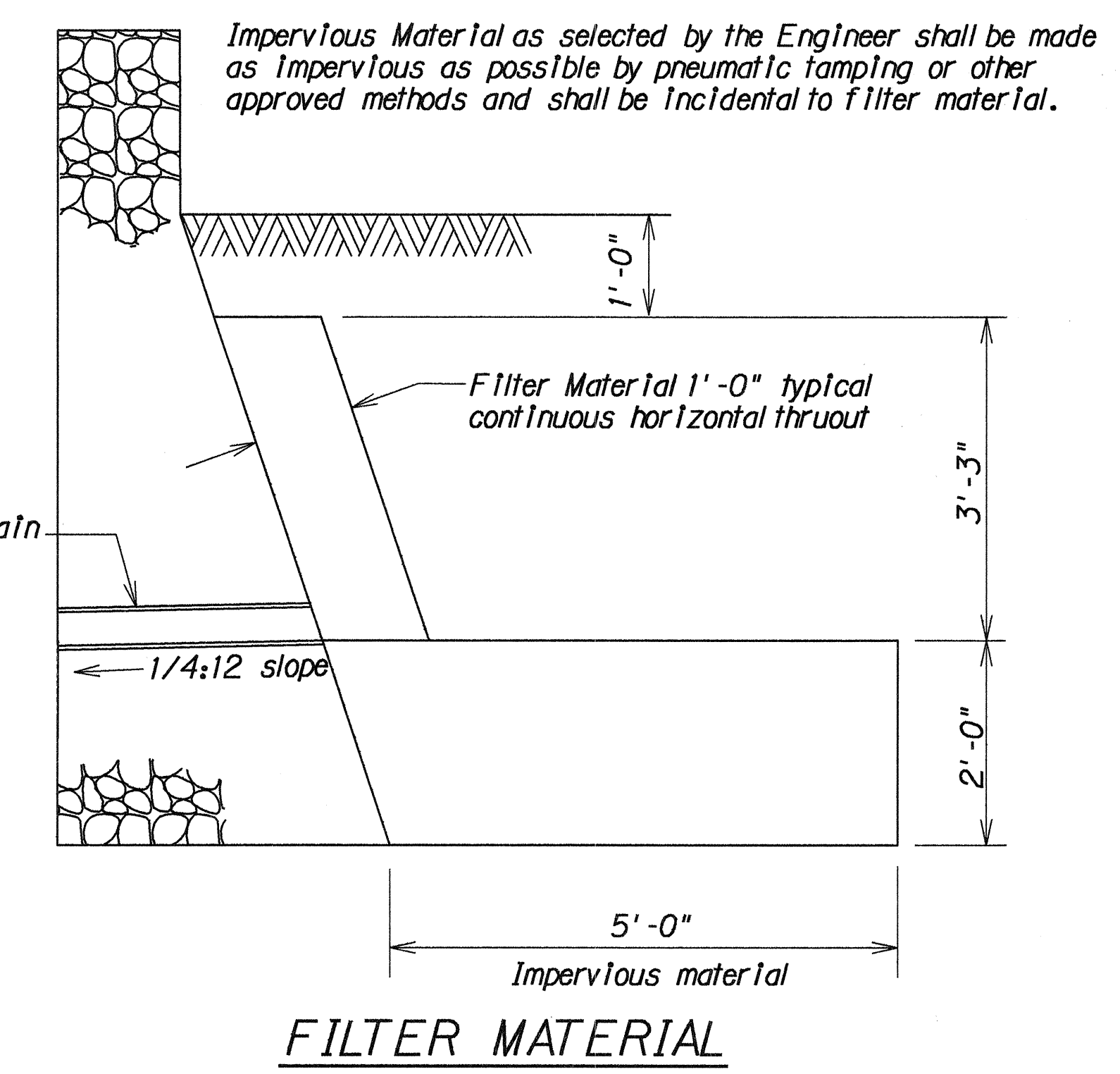
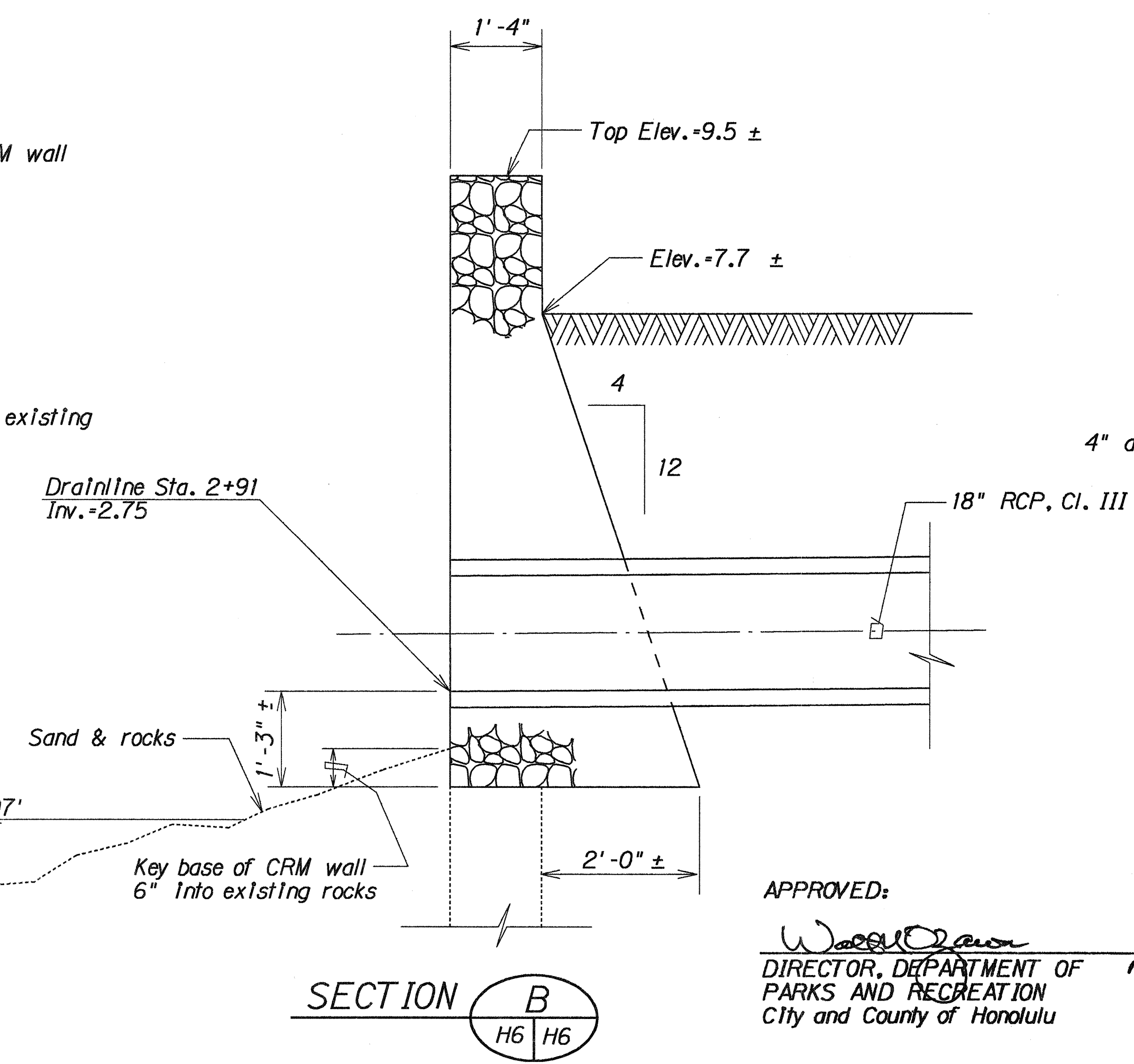
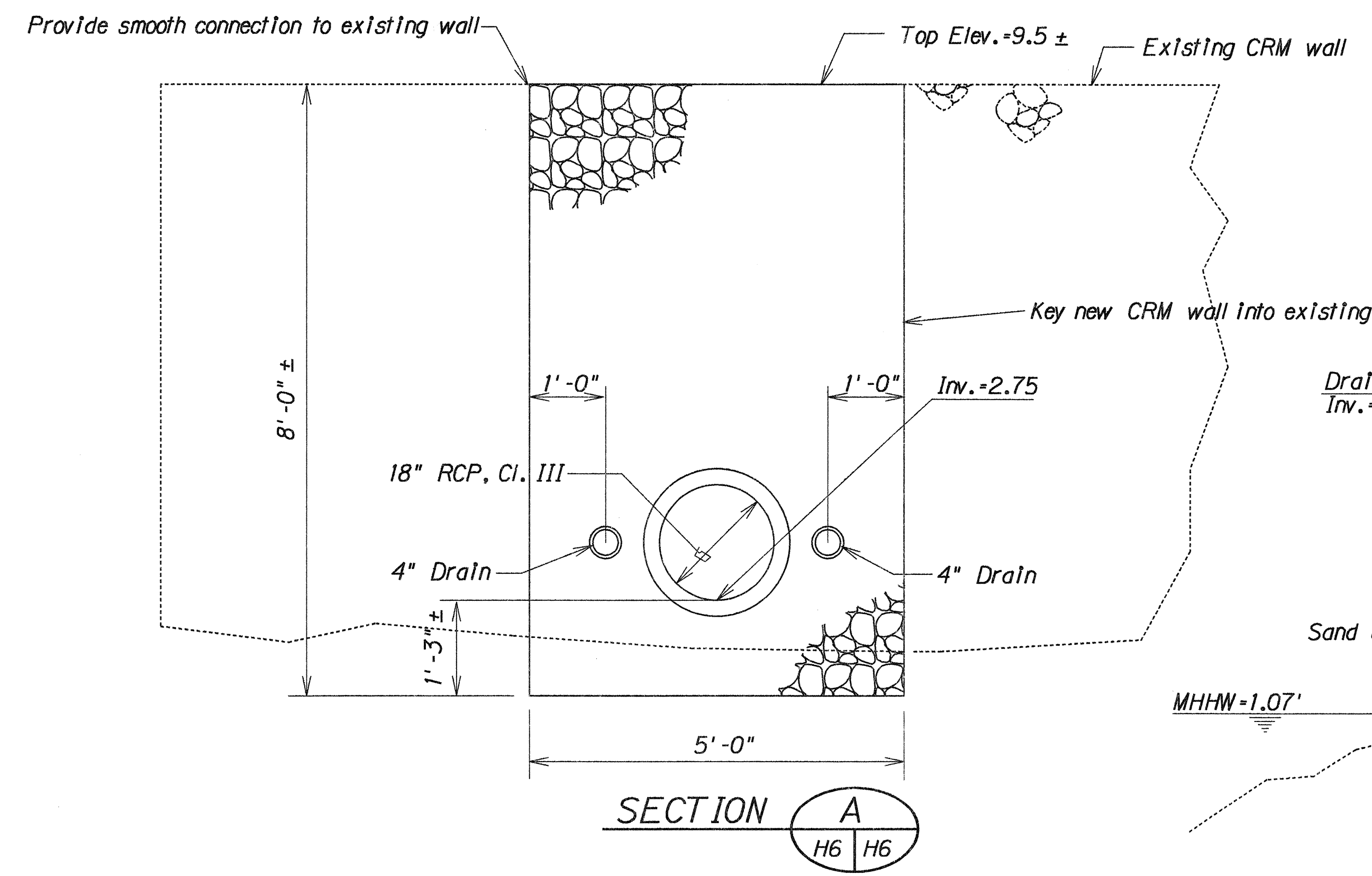
Scale: As Shown Date: June, 1991
SHEET No. H5 OF 6 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83D-01-91	1992	8	9



- NOTES:
1. Provide smooth connection to existing pavement.
 2. Excavation of the extra 12" width of AC M1x No. V shall be considered as structure excavation.

TYPICAL SECTION RESTORATION OF EXISTING IMPROVEMENTS AND TRENCH WIDTH



RESTORATION OF ROCK WALL AT DRAINLINE STA. 2+91

APPROVED: *W. J. O'Connell*
 DIRECTOR, DEPARTMENT OF
 PARKS AND RECREATION
 City and County of Honolulu

Date: 7.22.91

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

DRAINAGE DETAILS
Kamehameha Highway
Drainage Improvements In the
Vicinity of Swanzy Park
Proj. No. 83D-01-91

Scale: 3/4" = 1'-0" Date: Feb., 1991
 SHEET No. H6 OF 6 SHEETS

SURVEY PLOTTED BY: _____
 DATE: _____
 ORIGINAL PLAN: _____
 DRAWN BY: _____
 DESIGNED BY: _____
 CHECKED BY: _____
 NO. _____