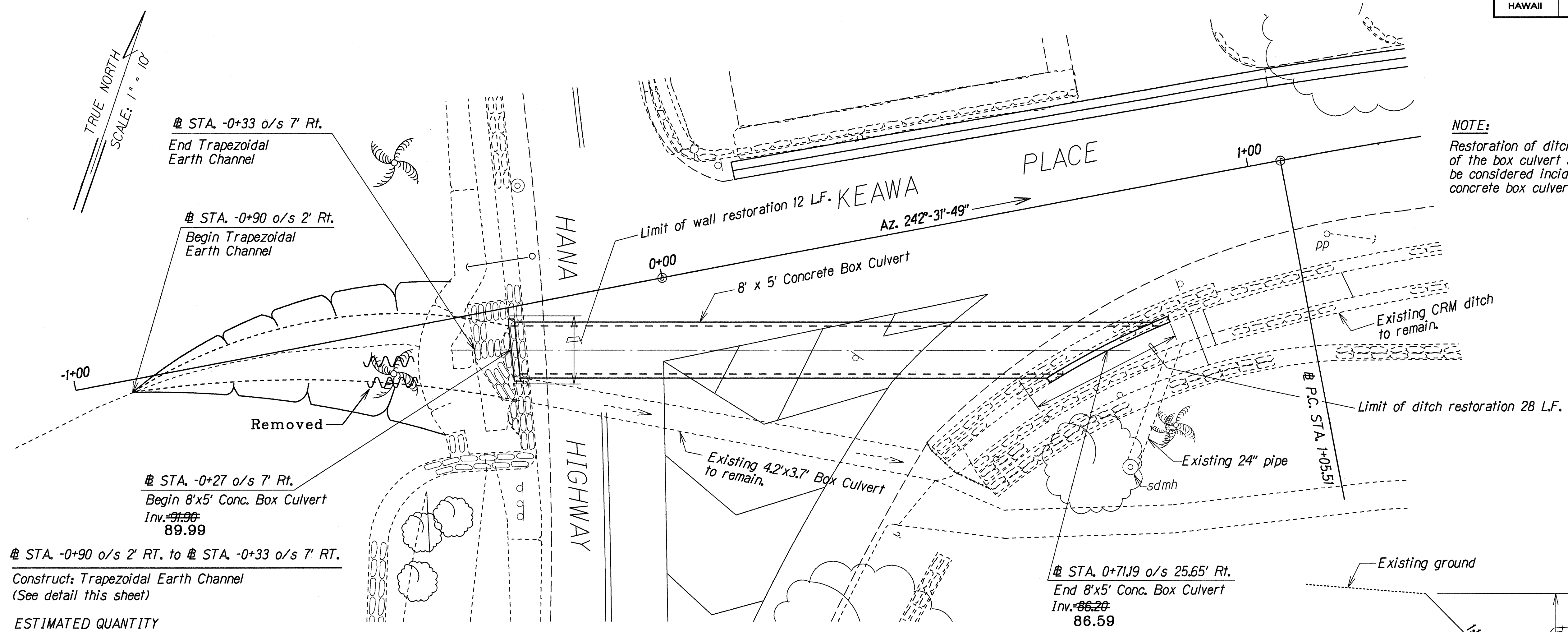
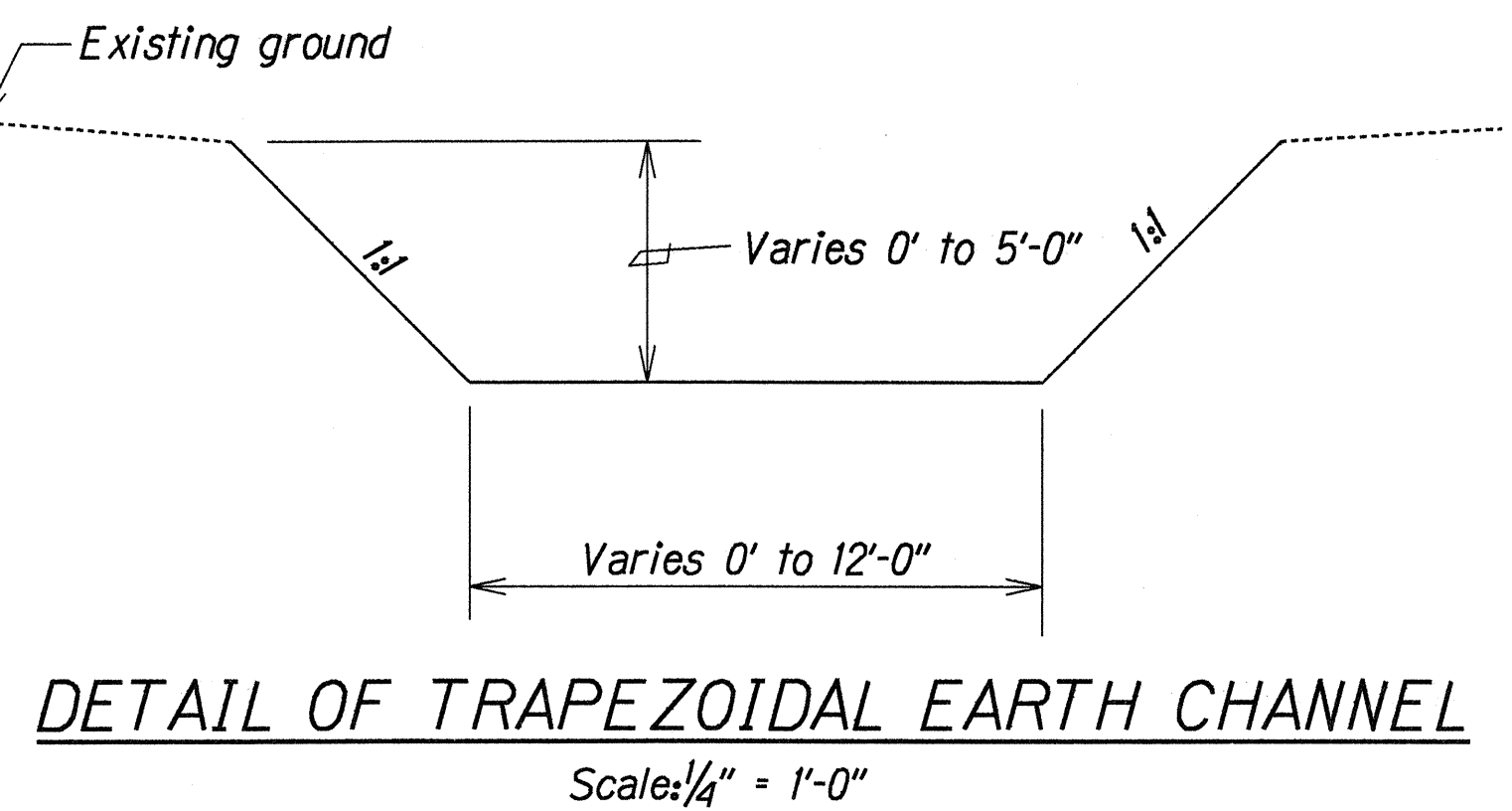
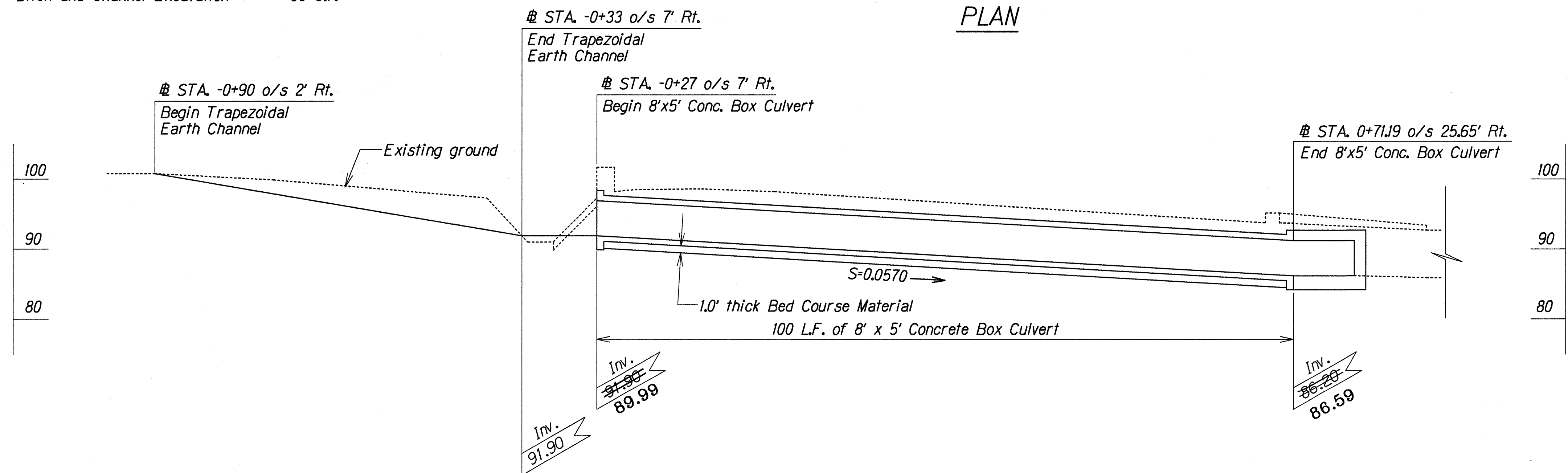


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	360B-02-93M	1993	8	15



ESTIMATED QUANTITY
Ditch and Channel Excavation 90 C.Y.



LEGEND FOR AS-BUILT POSTINGS	
	Squiggly line for as-built deletion
	Double line for as-built deletion
Roadway	Text for as-built posting

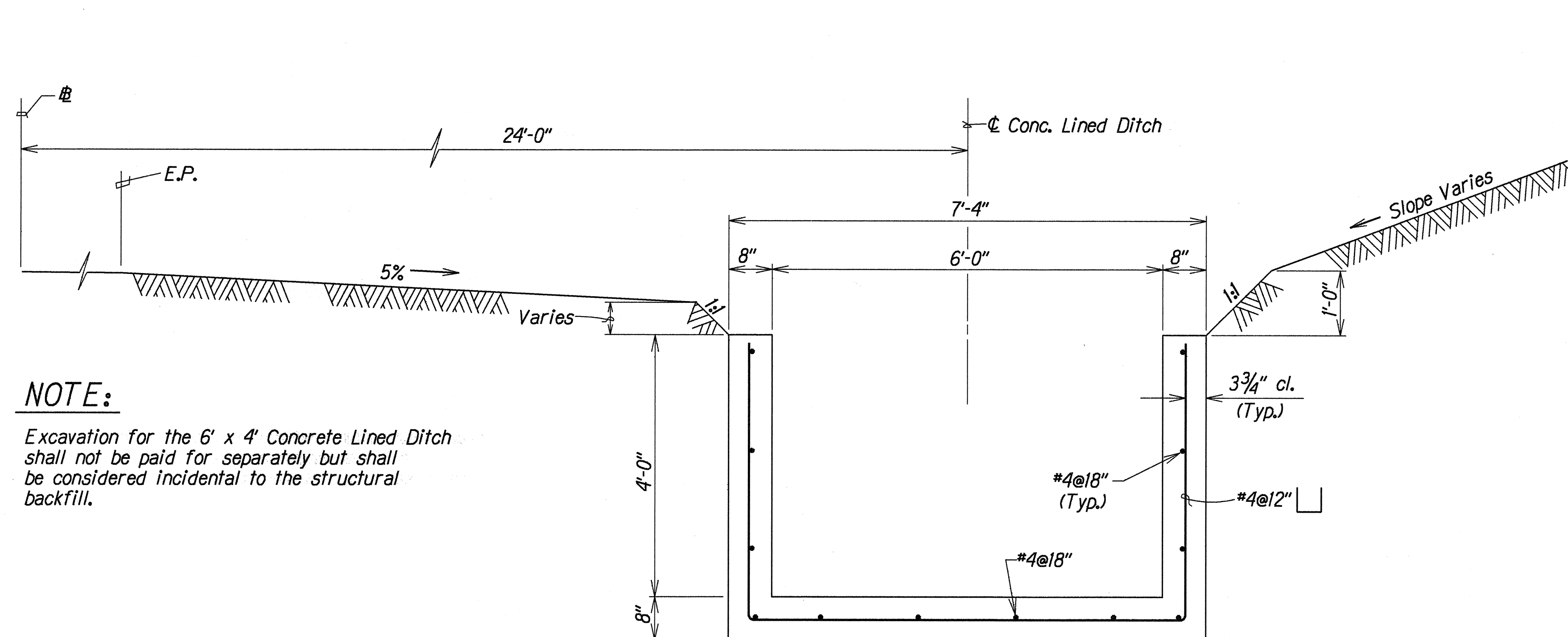
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS
HANA HIGHWAY
Storm Damage Repair
Vicinity of Keawa Place
Proj. No. 360B-02-93M
Scale: As Noted Date: April, 1993
SHEET No. H3 OF 10 SHEETS

DESIGNED BY	DATE
CHECKED BY	
NOTED BY	
TRACED BY	
DRAWN BY	
QUANTITY BY	
GENERAL PLAN	

"AS-BUILT"

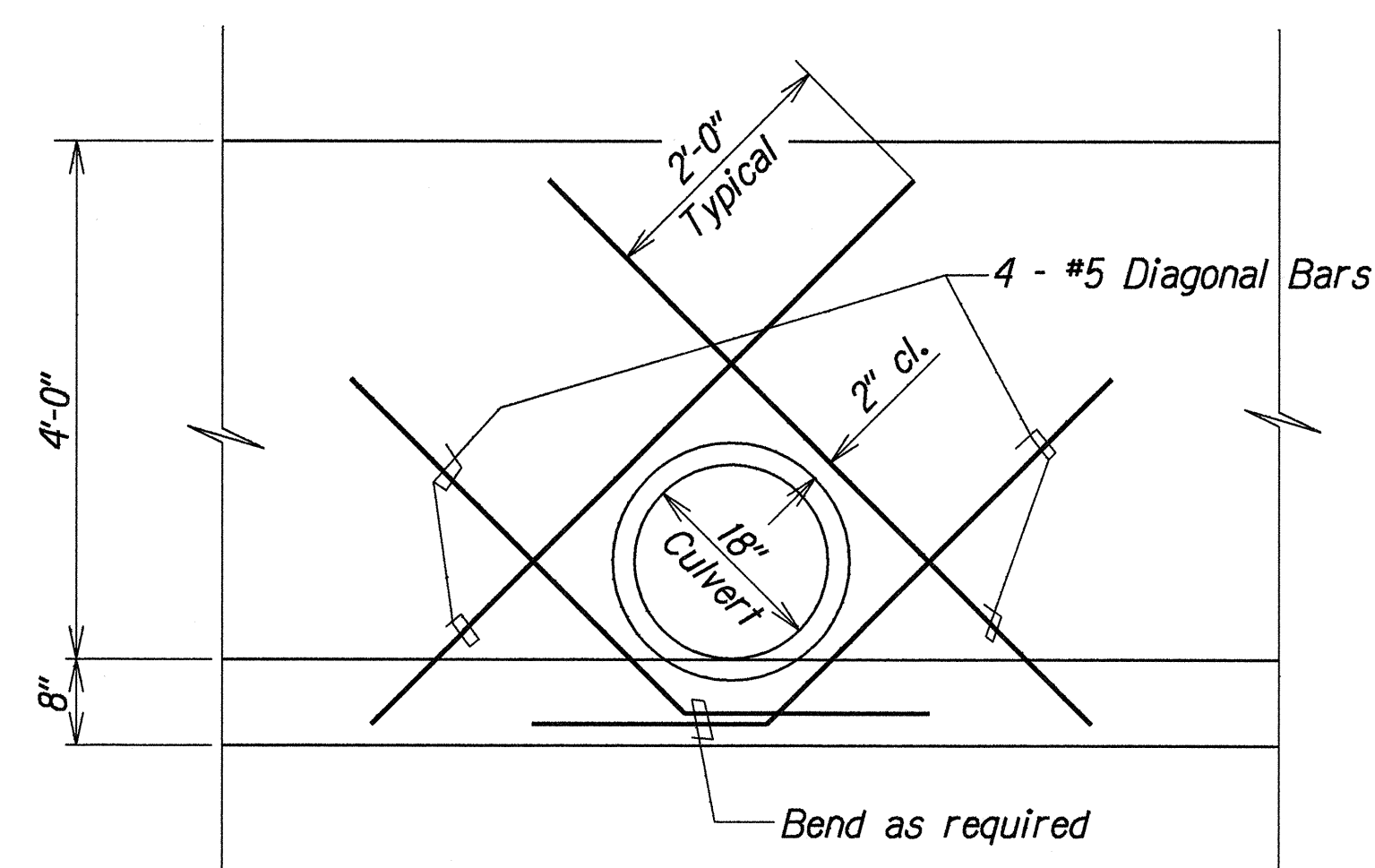
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	360B-02-93M	1993	10	15



NOTE:

Excavation for the 6' x 4' Concrete Lined Ditch shall not be paid for separately but shall be considered incidental to the structural backfill.

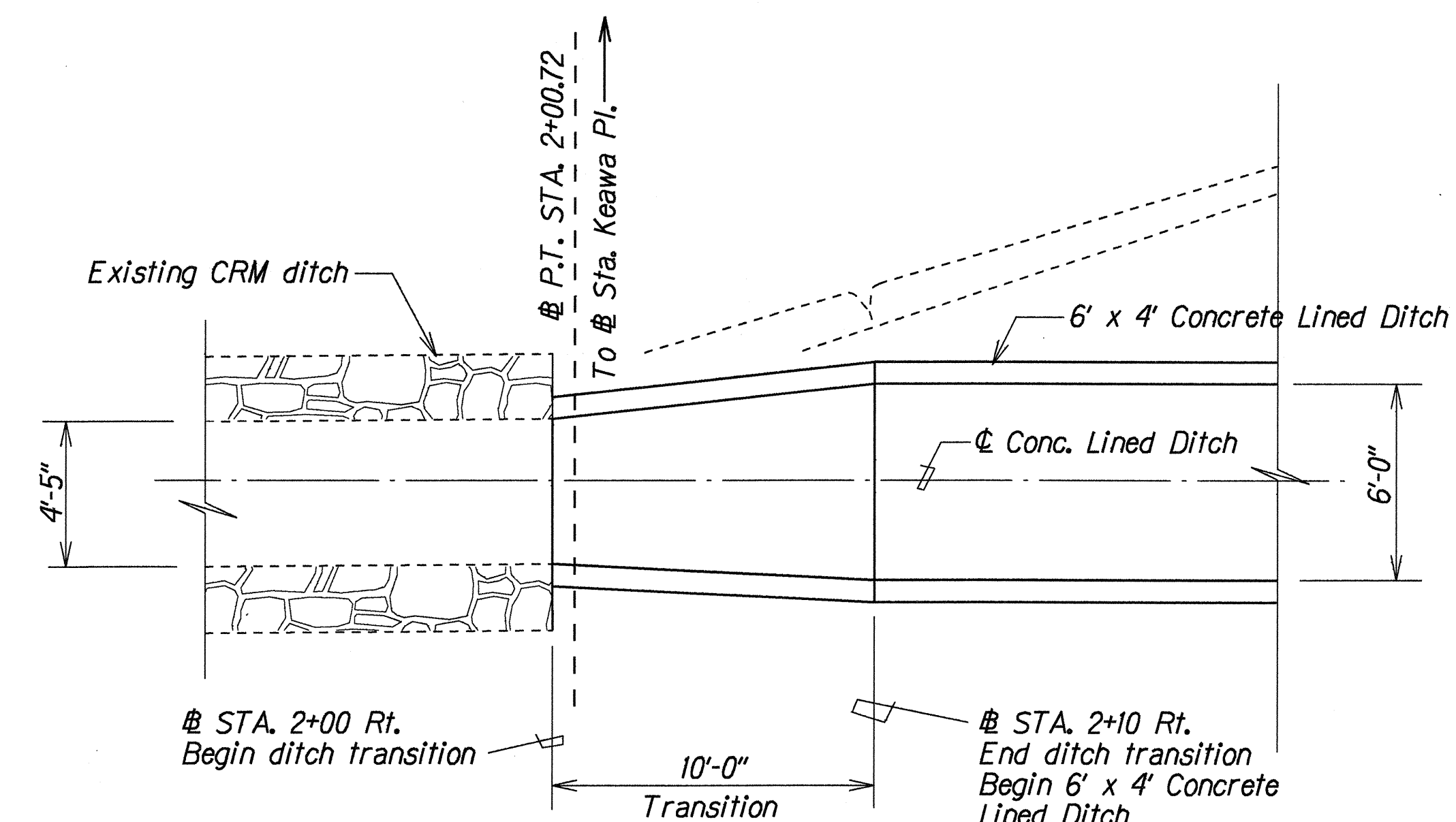
TYPICAL SECTION OF DITCH



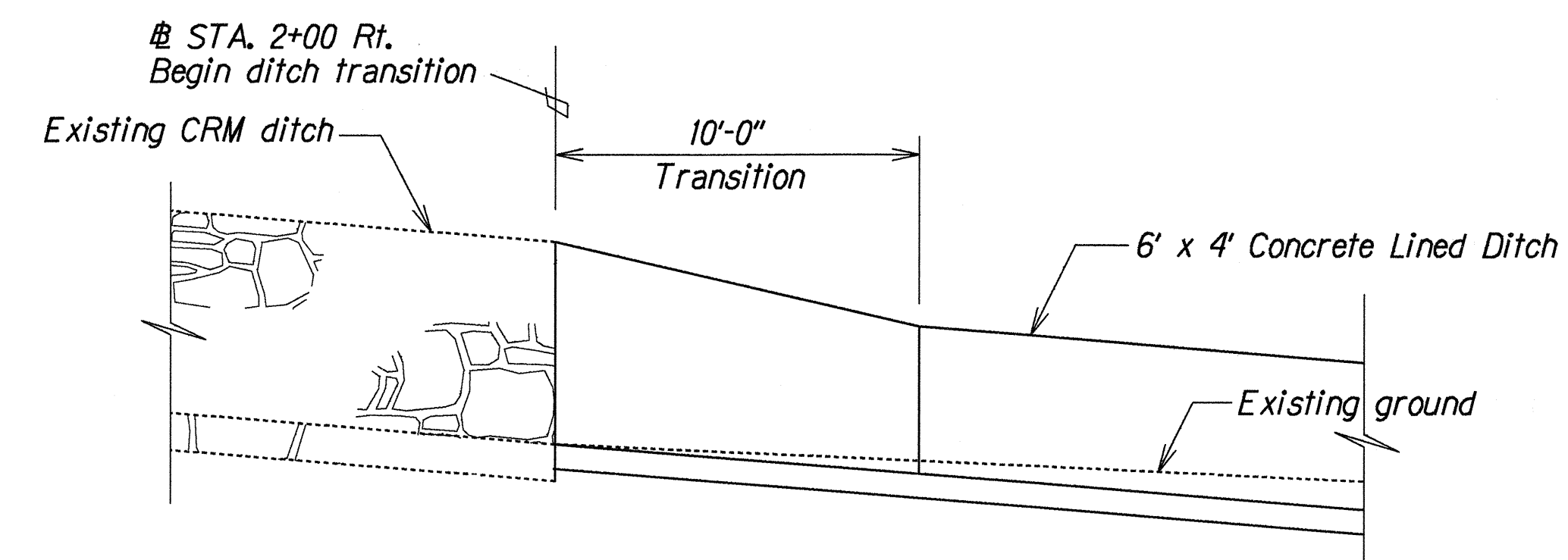
ADDED REINFORCING FOR CULVERT OPENINGS

DETAIL OF 6.0' X 4.0' CONCRETE LINED DITCH

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



PLAN



ELEVATION

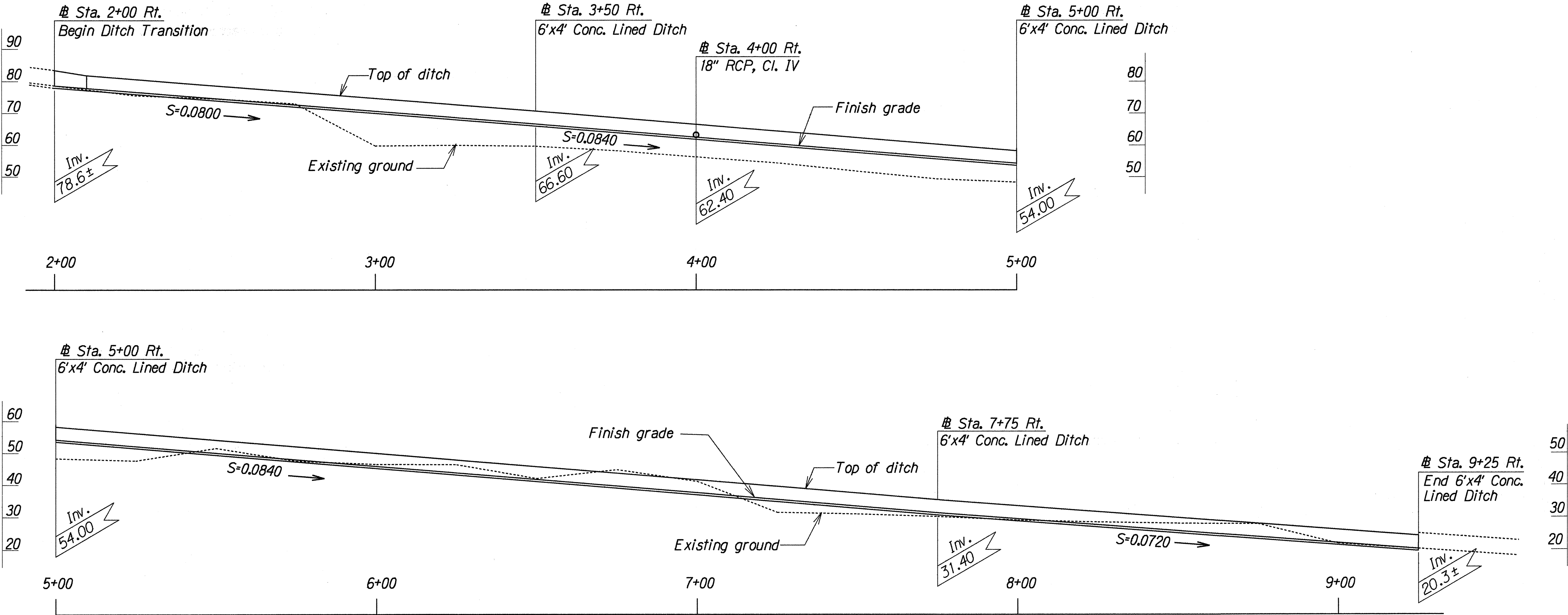
DETAIL OF DITCH TRANSITION AT STA. 2+00 RT.

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

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
TRACED BY	DRAWN BY	
NOTE BOOK	CHECKED BY	
	DESIGNED BY	
	QUANTITY BY	
	CHECKED BY	

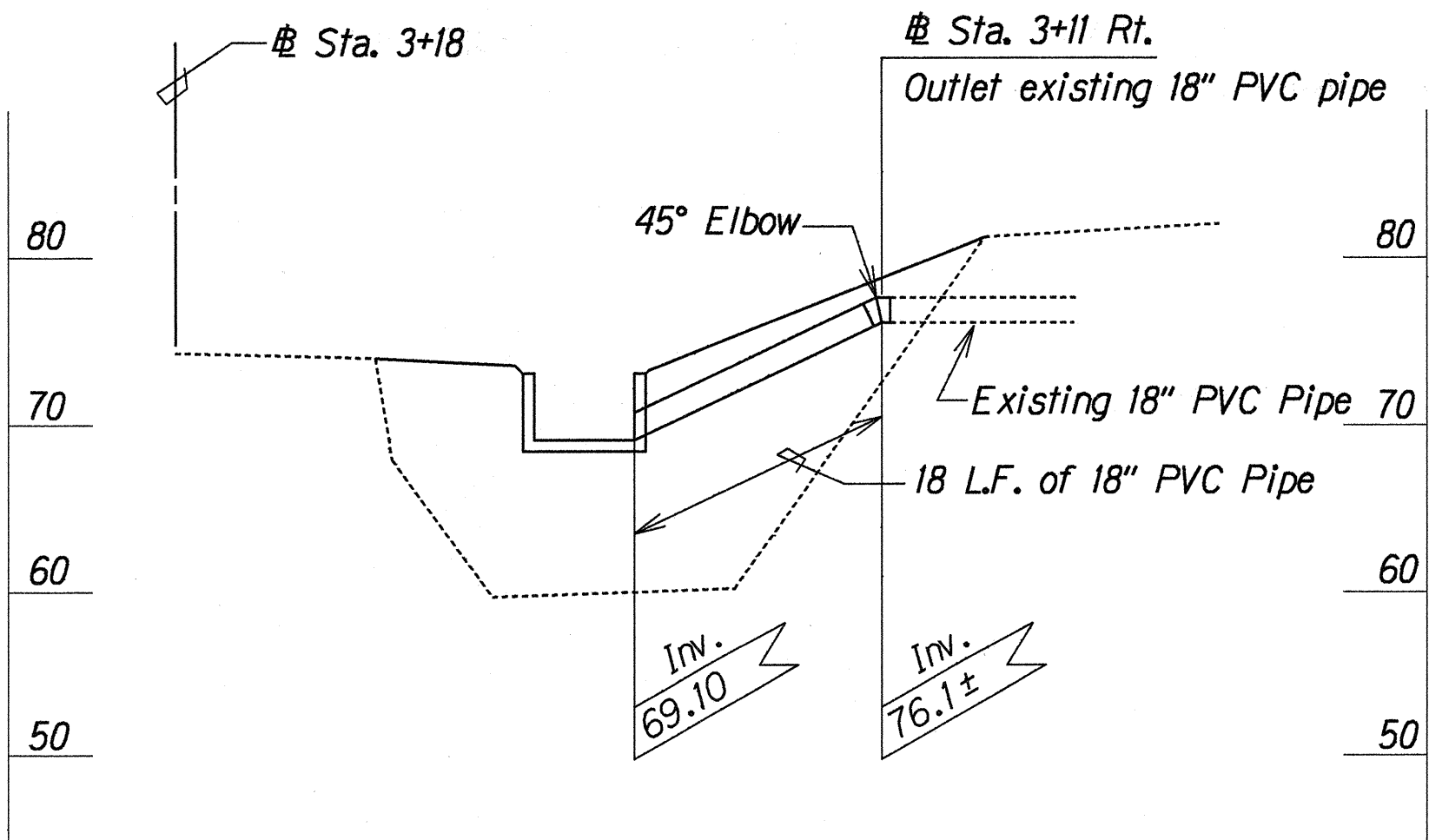
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
DRAINAGE DETAILS
HANA HIGHWAY
Storm Damage Repair
Vicinity of Keawa Place
Proj. No. 360B-02-93M
Scale: As Noted Date: April, 1993
SHEET No. H5 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	360B-02-93M	1993	11	15



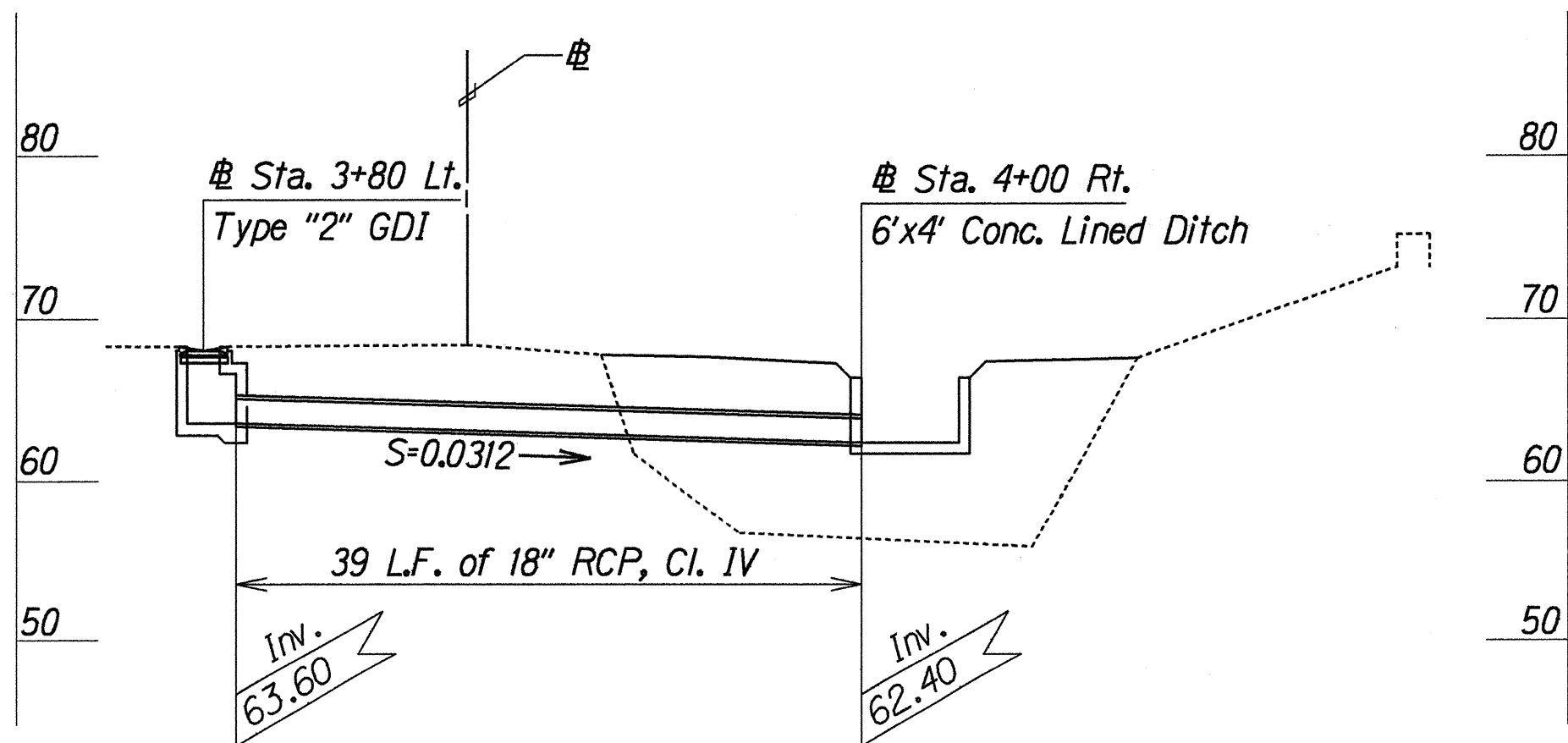
PROFILE ALONG 6.0' X 4.0' CONCRETE LINED DITCH

Scale: 1" = 20'



PROFILE ALONG 18" PVC PIPE AT STA. 3+18 RT.

Scale: 1" = 10'



PROFILE ALONG 18" CULVERT AT STA. 3+80

Scale: 1" = 10'

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

HANA HIGHWAY

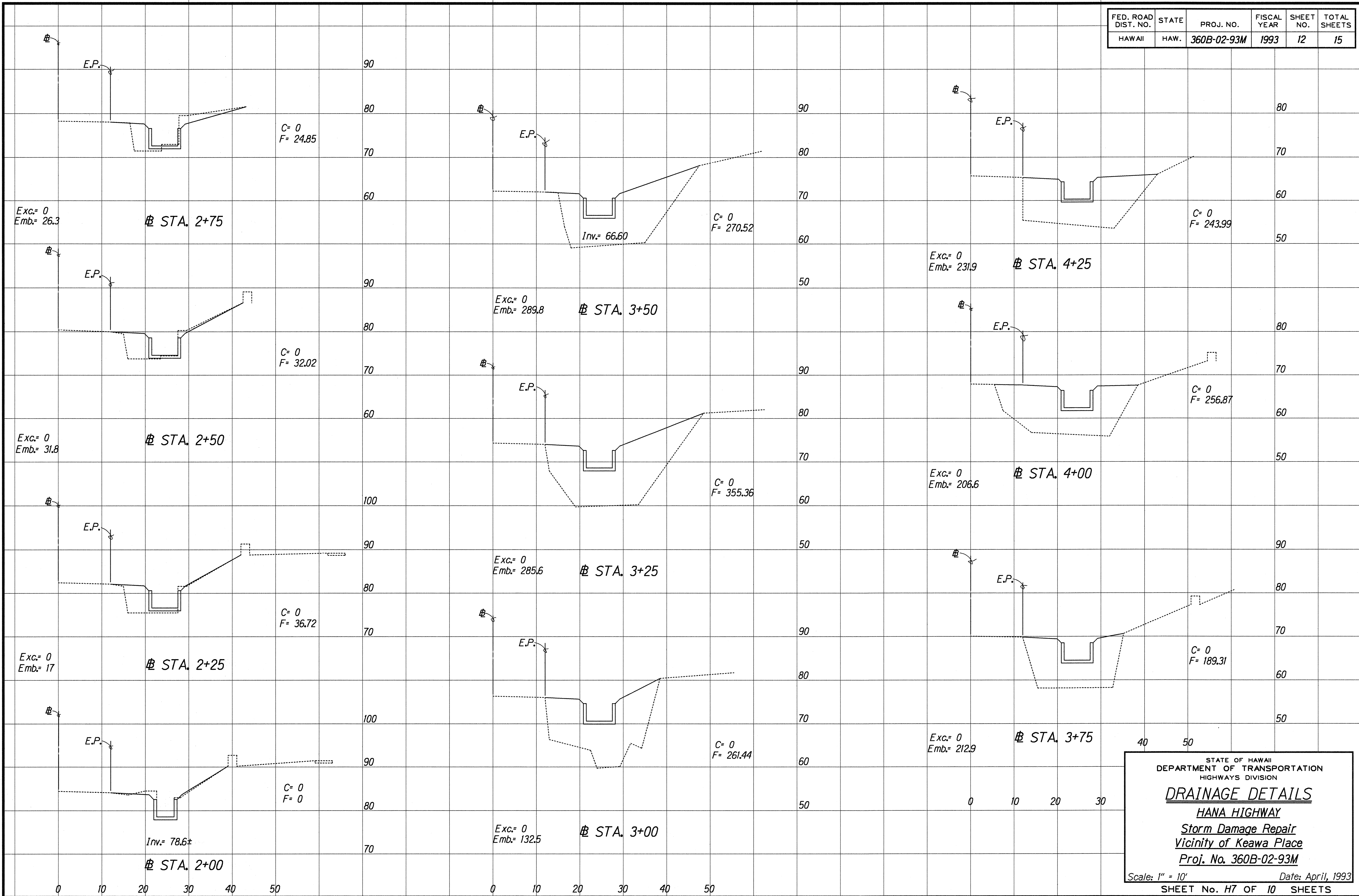
Storm Damage Repair
Vicinity of Keawa Place

Proj. No. 360B-02-93M

Scale: As Noted Date: April, 1993

SHEET No. H6 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	360B-02-93M	1993	12	15



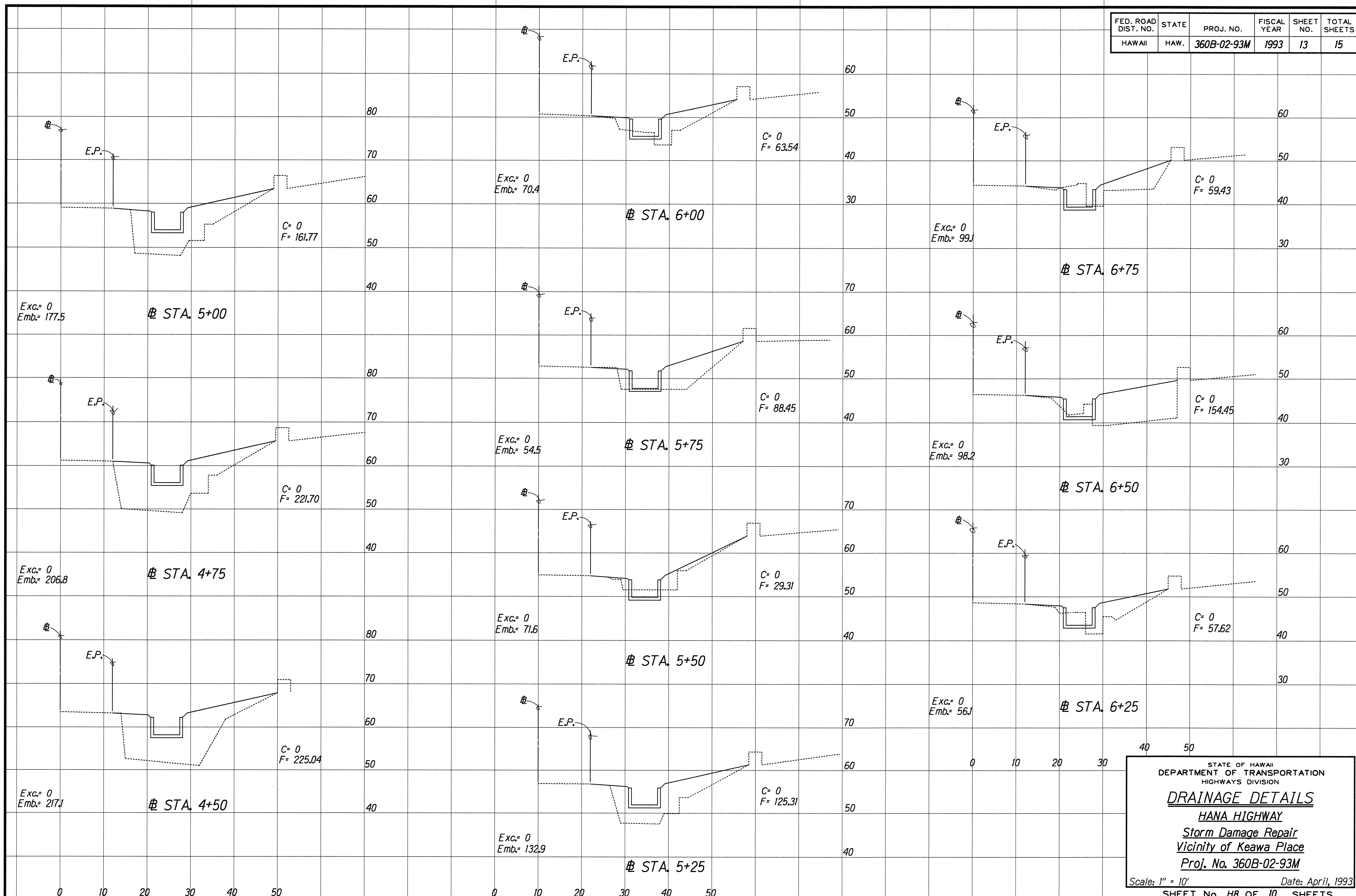
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
DRAWN BY	DESIGNED BY	CHECKED BY
NOTE BOOK	DESIGNED BY	CHECKED BY
	DESIGNED BY	CHECKED BY
	DESIGNED BY	CHECKED BY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS
HANA HIGHWAY
Storm Damage Repair
Vicinity of Keawa Place
Proj. No. 360B-02-93M

Scale: 1" = 10' Date: April, 1993
SHEET No. H7 OF 10 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	360B-02-93M	1993	13	15



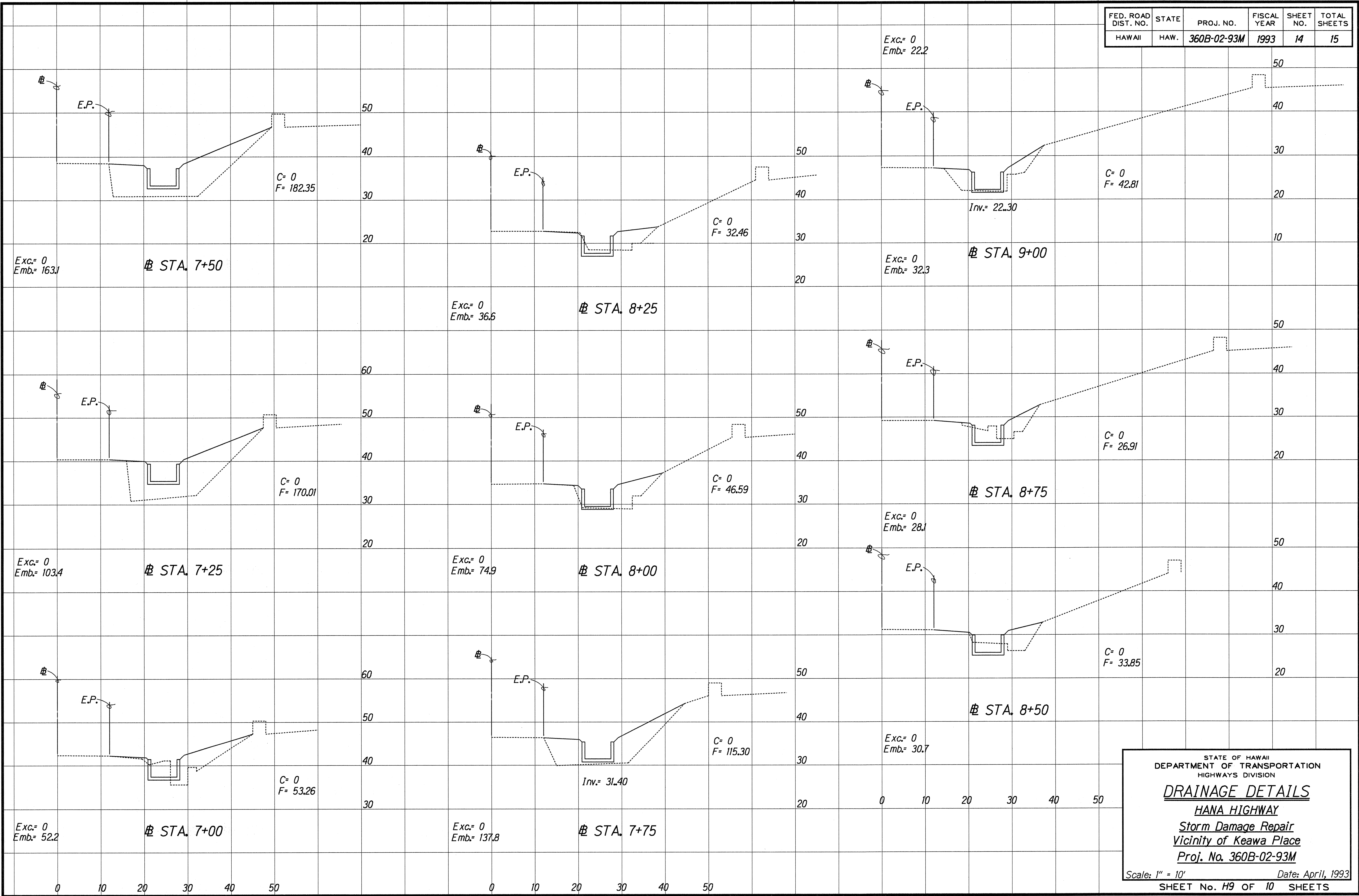
SURVEY PLOTTED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
NO.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS
HANA HIGHWAY
Storm Damage Repair
Vicinity of Keawa Place
Proj. No. 360B-02-93M

Scale: 1" = 10' Date: April, 1993
SHEET No. 13 OF 15 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	360B-02-93M	1993	14	15



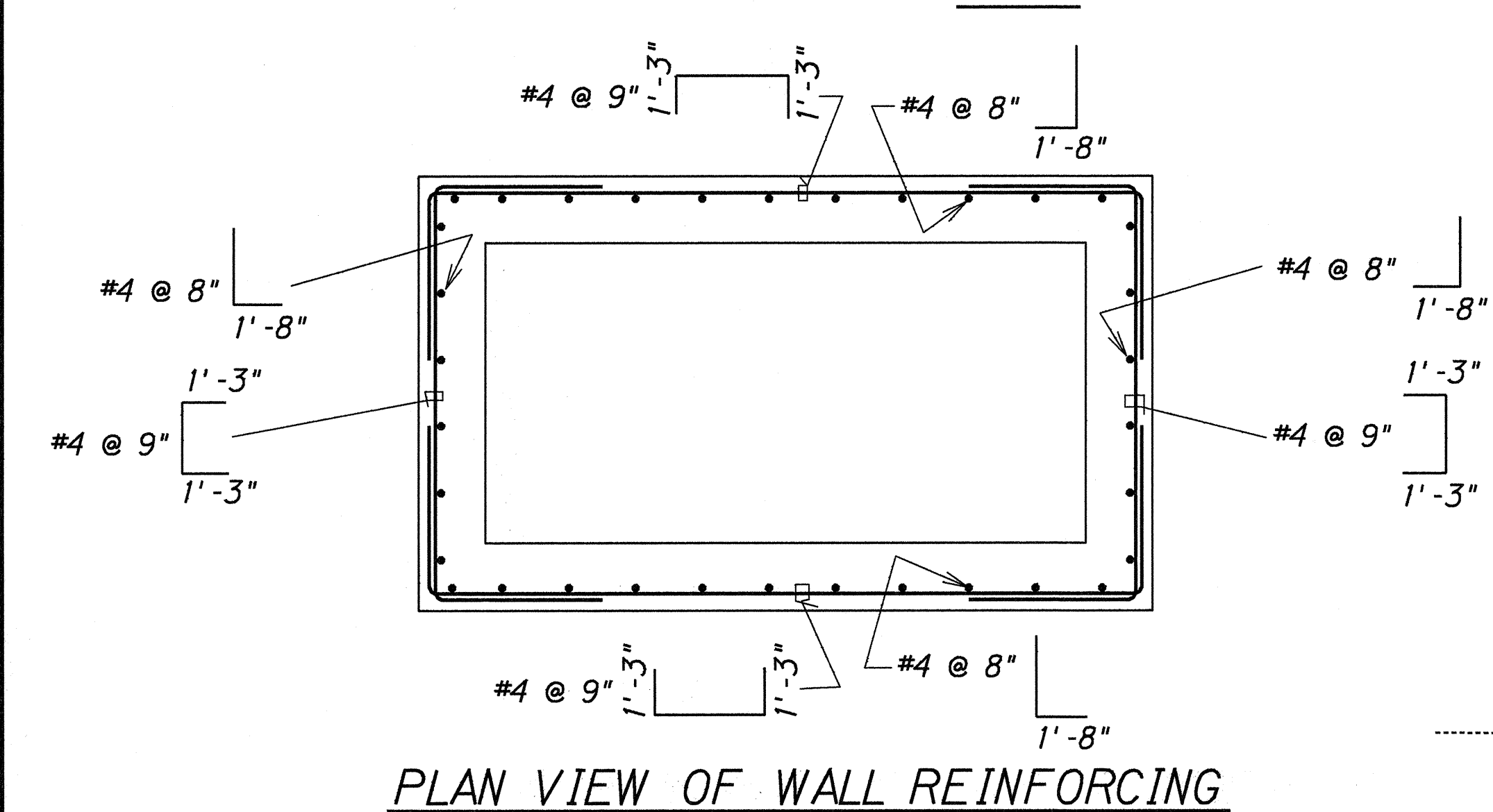
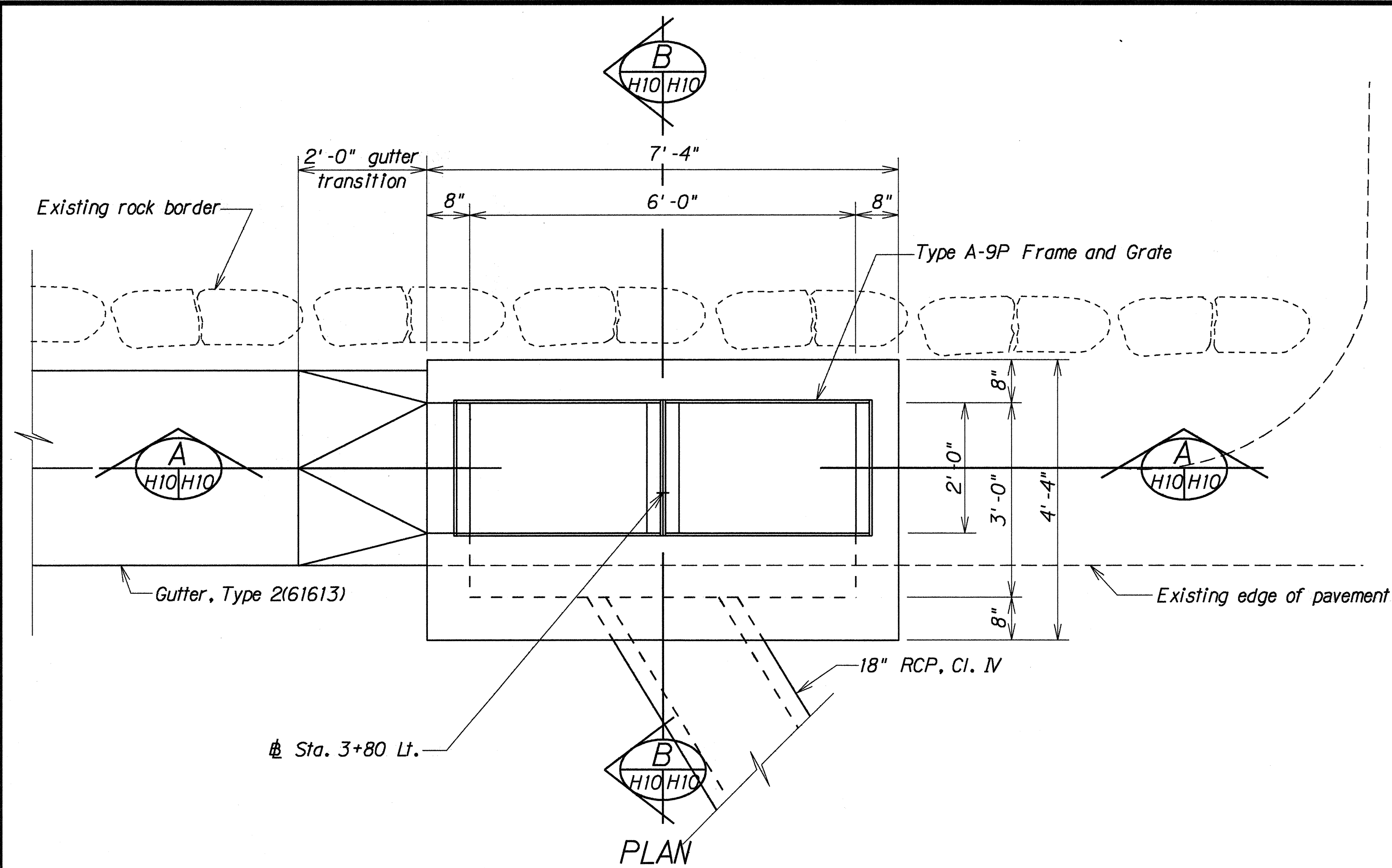
SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NOTE BOOK	
NO.	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

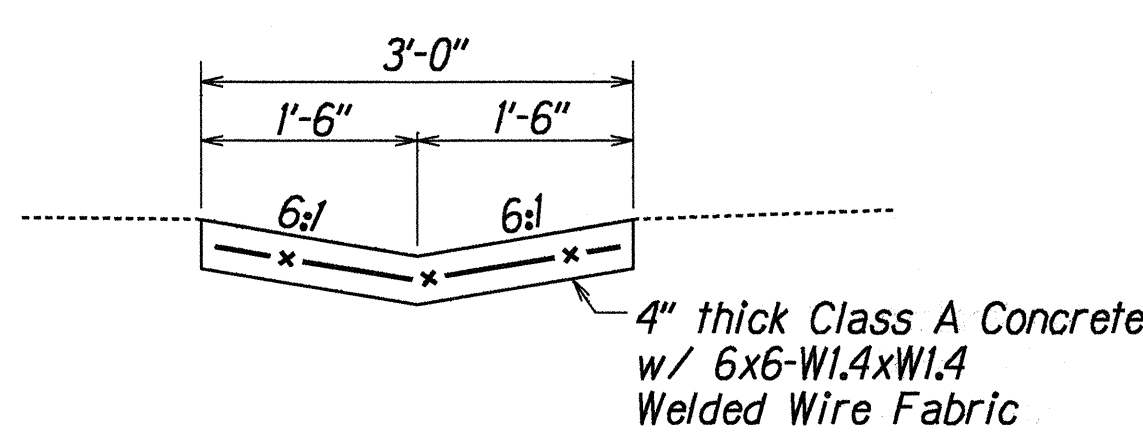
DRAINAGE DETAILS
HANA HIGHWAY
Storm Damage Repair
Vicinity of Keawa Place
Proj. No. 360B-02-93M

Scale: 1" = 10'
Date: April, 1993
SHEET No. H9 OF 10 SHEETS

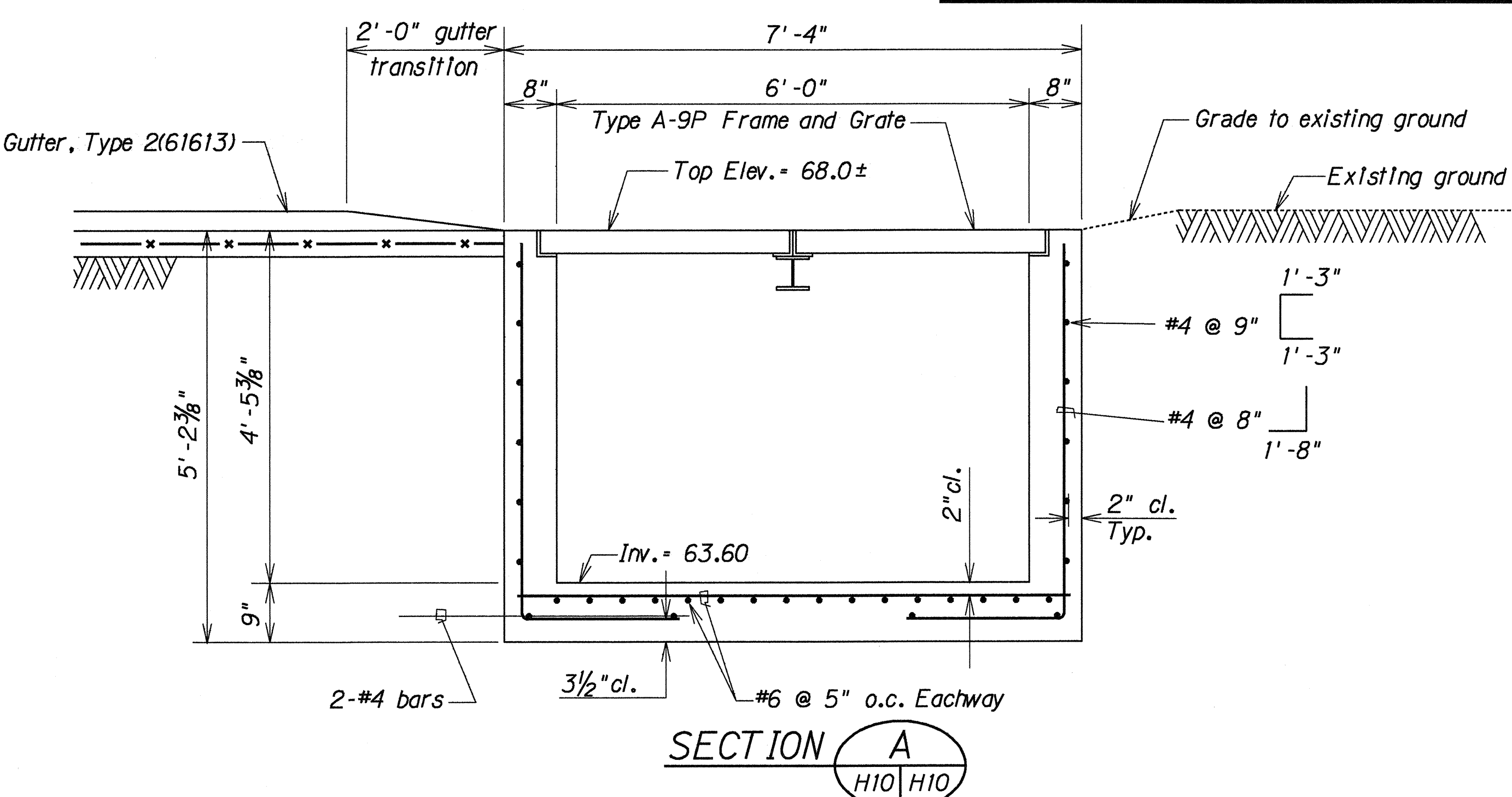
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	360B-02-93M	1993	ADD. 15	15



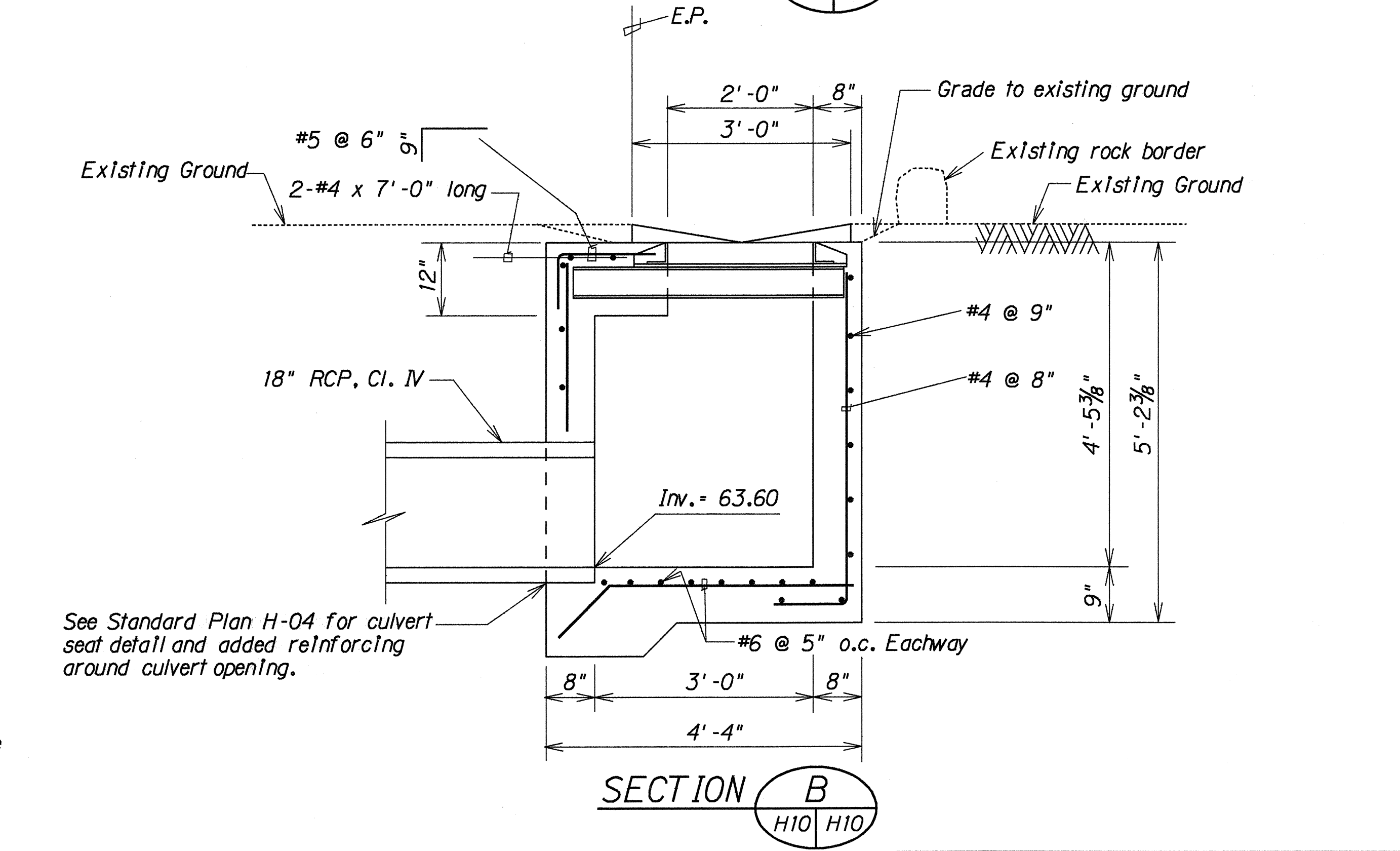
PLAN VIEW OF WALL REINFORCING



DETAIL OF GUTTER, TYPE 2(61613)



SECTION A



SECTION B

DETAILS OF TYPE "2" GRATED DROP INLET AT STA. 3+80 LT.

ORIGINAL PLAN	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
DATE	

5/28/93	Revised top slab and reinforcing around frame
DATE	REVISION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
DRAINAGE DETAILS
HANA HIGHWAY
Storm Damage Repair
Vicinity of Keawa Place
Proj. No. 360B-02-93M
Scale: 3/4" = 1'-0"
Date: April, 1993
SHEET NO. H10 OF 10 SHEETS