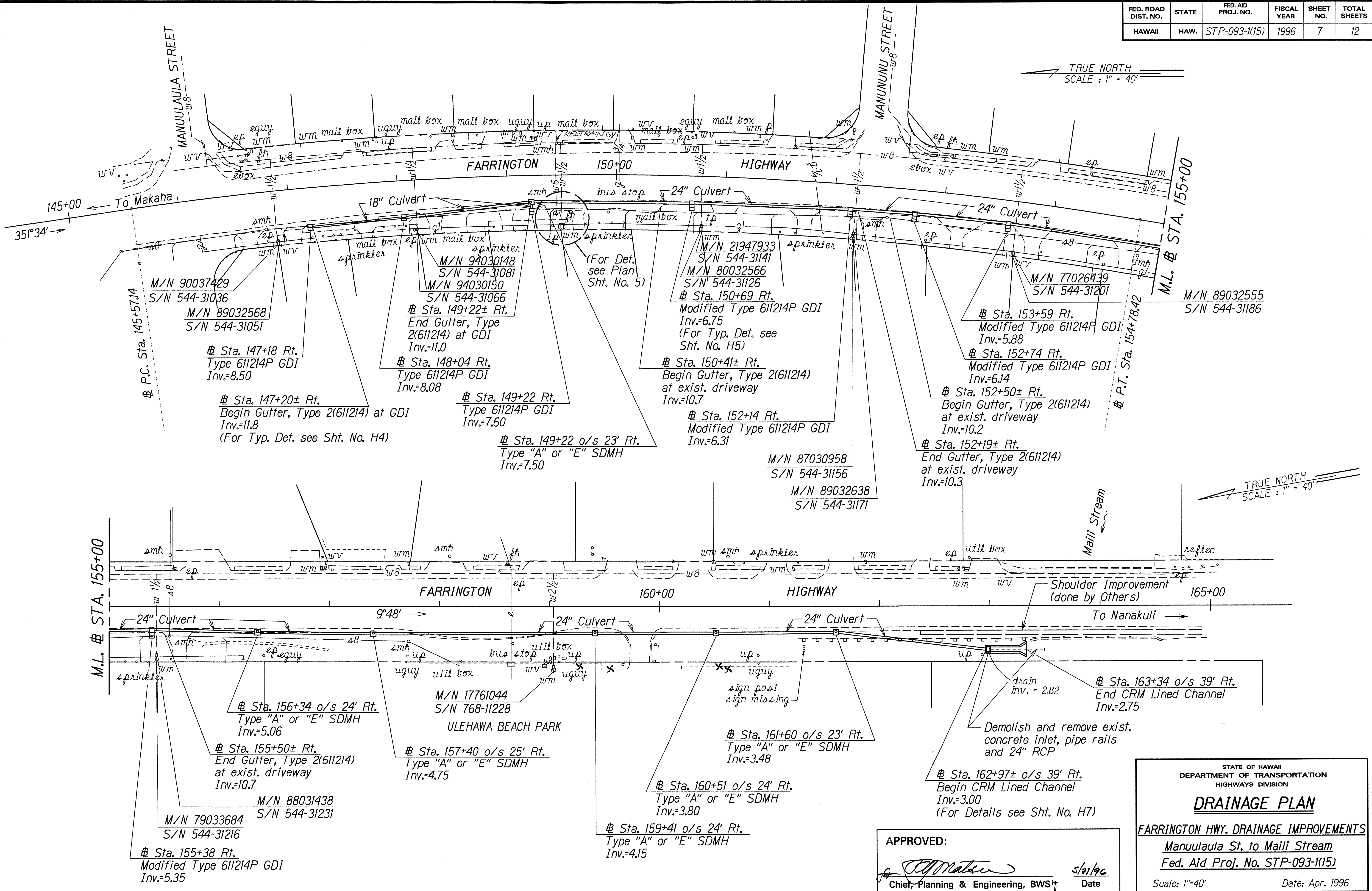


ORIGINAL PLAN	SURVEY PLOTTED BY _____	DATE <u>3/8/96</u>
NOTE BOOK dh2curfils.frl 4arhsm01.dgn	DRAWN BY <u>A. Nomura</u>	•
	TRACED BY _____	•
	DESIGNED BY <u>C. Matsuda</u>	•
	QUANTITIES BY _____	•
	CHECKED BY _____	•

<i>PIPE ABBREVIATIONS</i>	
<i>CAP</i>	<i>Corrugated Aluminum Pipe</i>
<i>ASRP</i>	<i>Aluminum Spiral Rib Pipe</i>
<i>RCP</i>	<i>Reinforced Concrete Pipe</i>
<i>HDPP</i>	<i>High Density Polyethylene Pipe</i>

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-093-1(15)	1996	7	12



DATE	3/1/96
SURVEY PLOTTED BY	
DRAWN BY	A. M. M. M.
DESIGNED BY	C. M. M. M.
CHECKED BY	C. M. M. M.
ORIGINAL PLAN	
NOTED WORK	
REVISIONS	
CHANGES BY	
CHECKED BY	

APPROVED:

[Signature] 5/21/96

Chief, Planning & Engineering, BWS

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PLAN

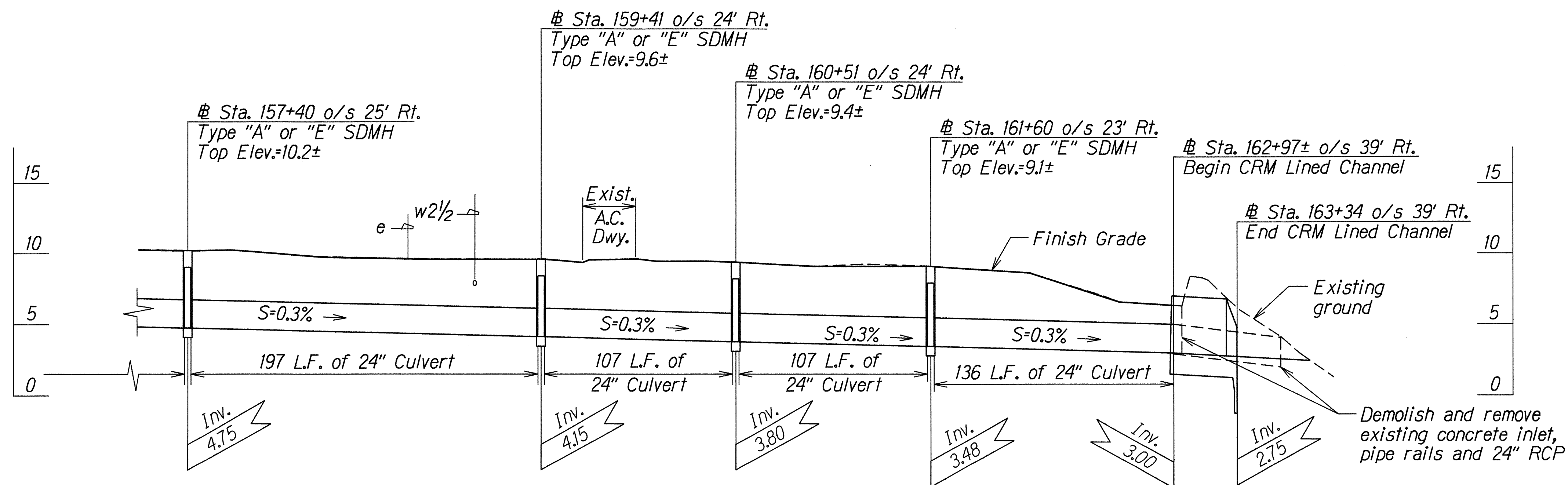
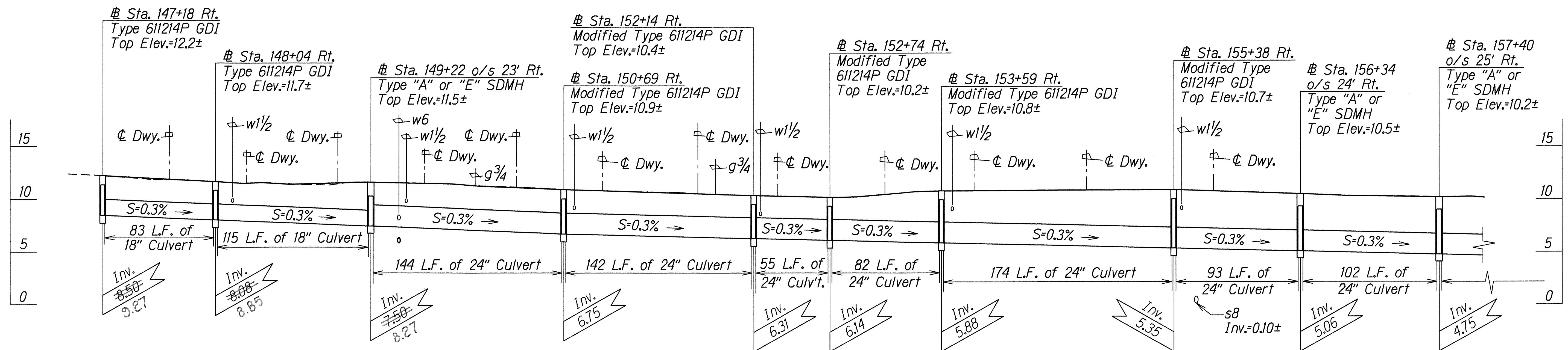
FARRINGTON HWY. DRAINAGE IMPROVEMENTS

Manuulaula St. to Maili Stream

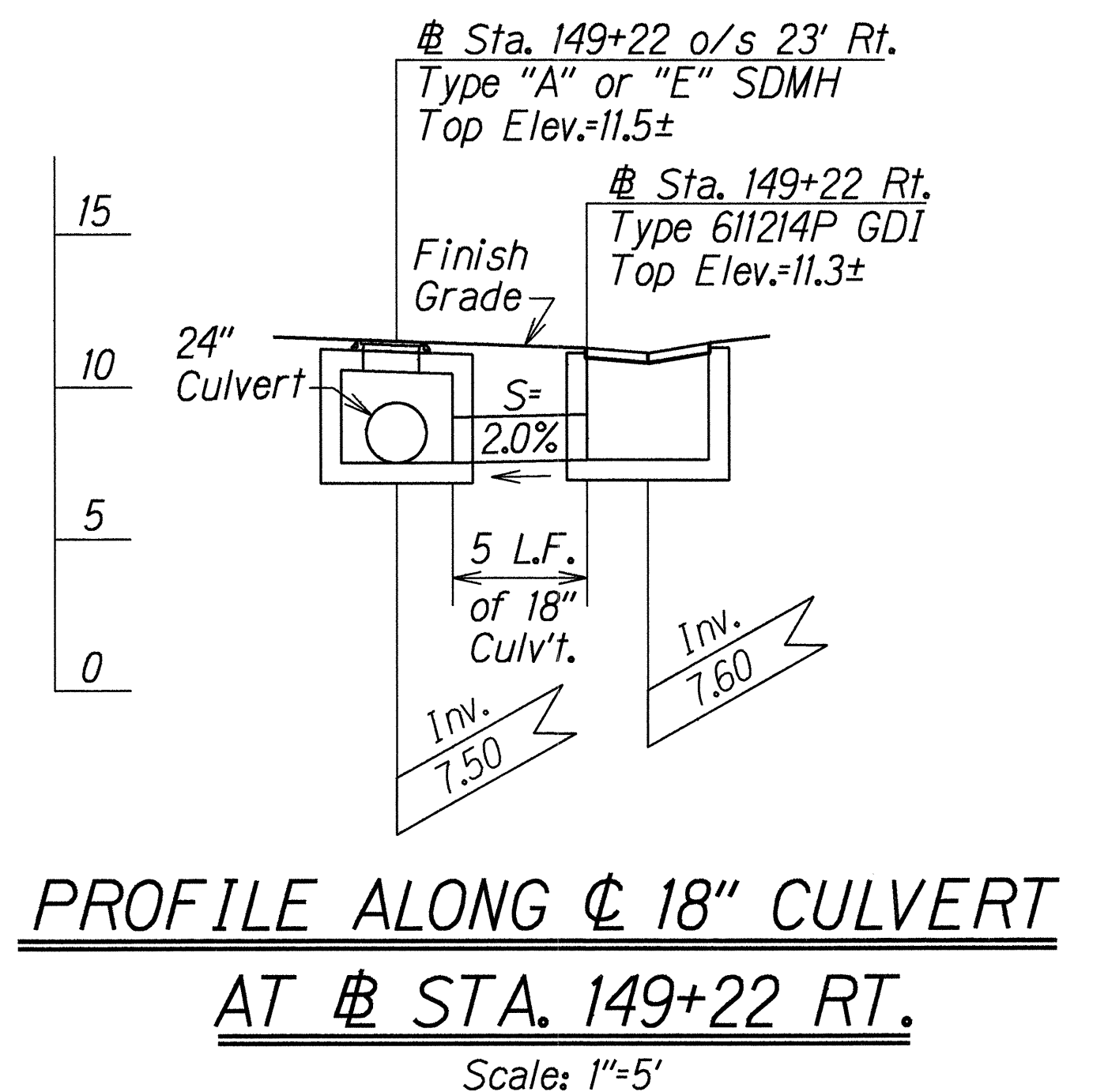
Fed. Aid Proj. No. STP-093-1(15)

Scale: 1"=40' Date: Apr. 1996

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-093-1(15)	1996	8	12



PROFILE ALONG ϕ CULVERT
 Scale: Horiz. 1"=40'
 Vert. 1"=5'



PROFILE ALONG ϕ 18" CULVERT
AT STA. 149+22 RT.
 Scale: 1"=5'

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

DRAINAGE PROFILE

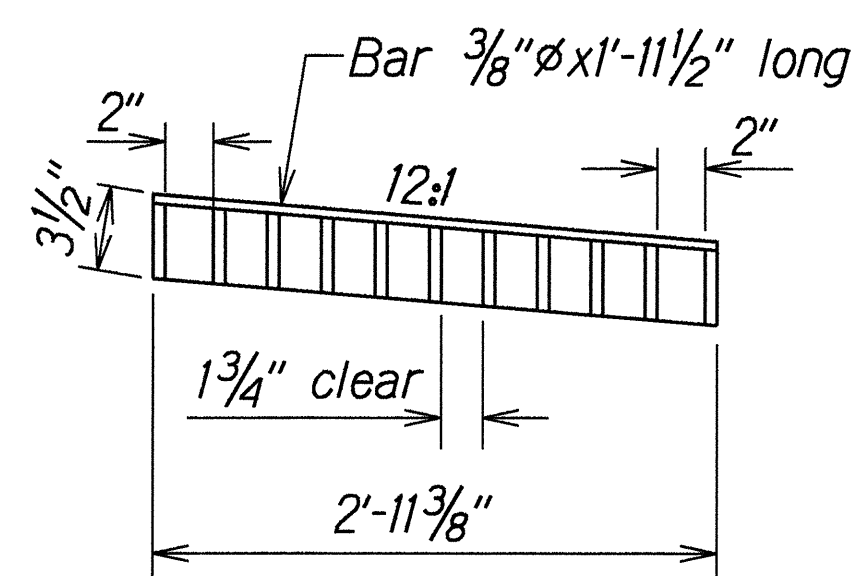
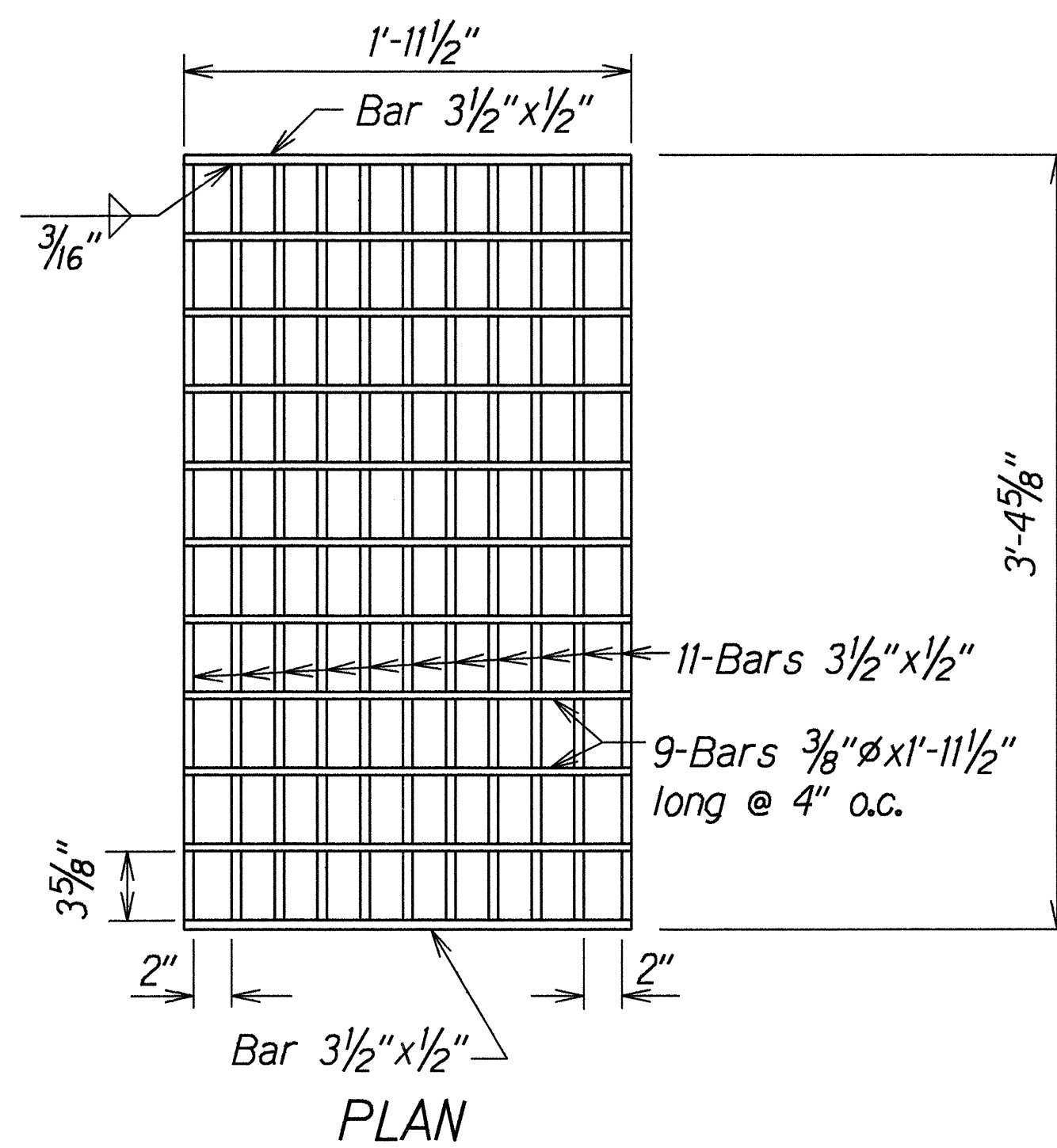
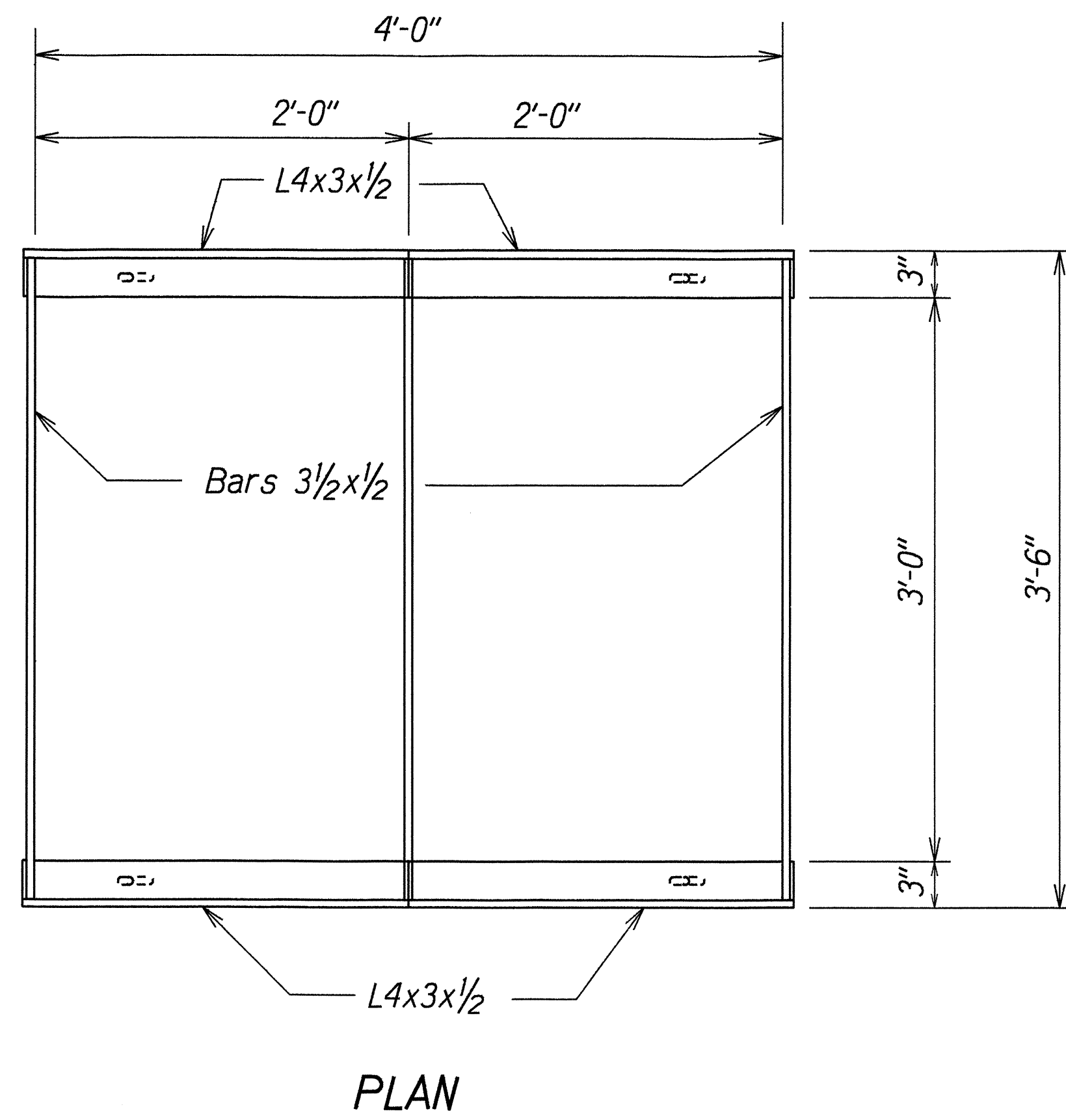
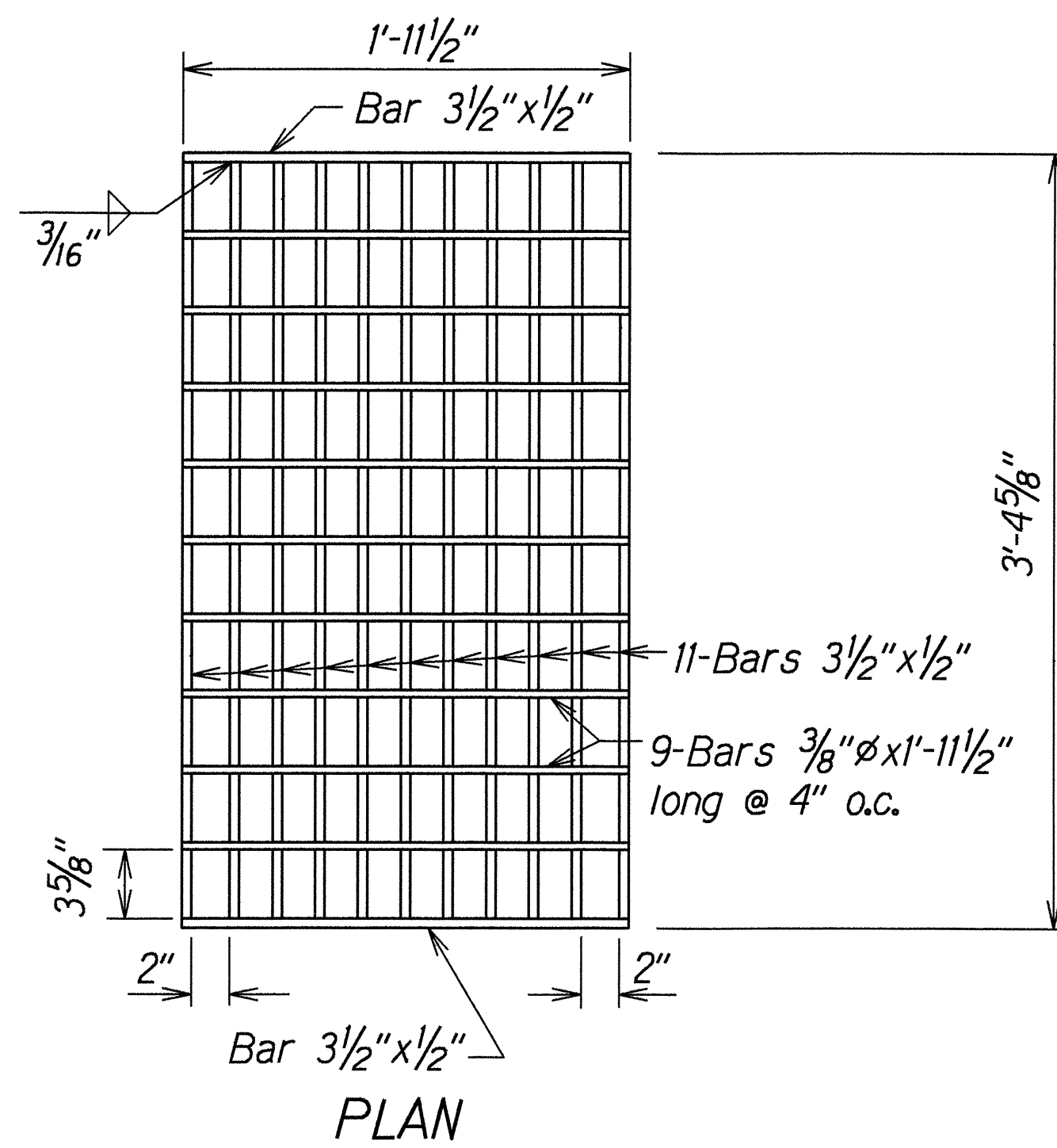
FARRINGTON HWY. DRAINAGE IMPROVEMENTS
 Manuulaula St. to Maili Stream
 Fed. Aid Proj. No. STP-093-1(15)

Scale: As Shown Date: Apr. 1996

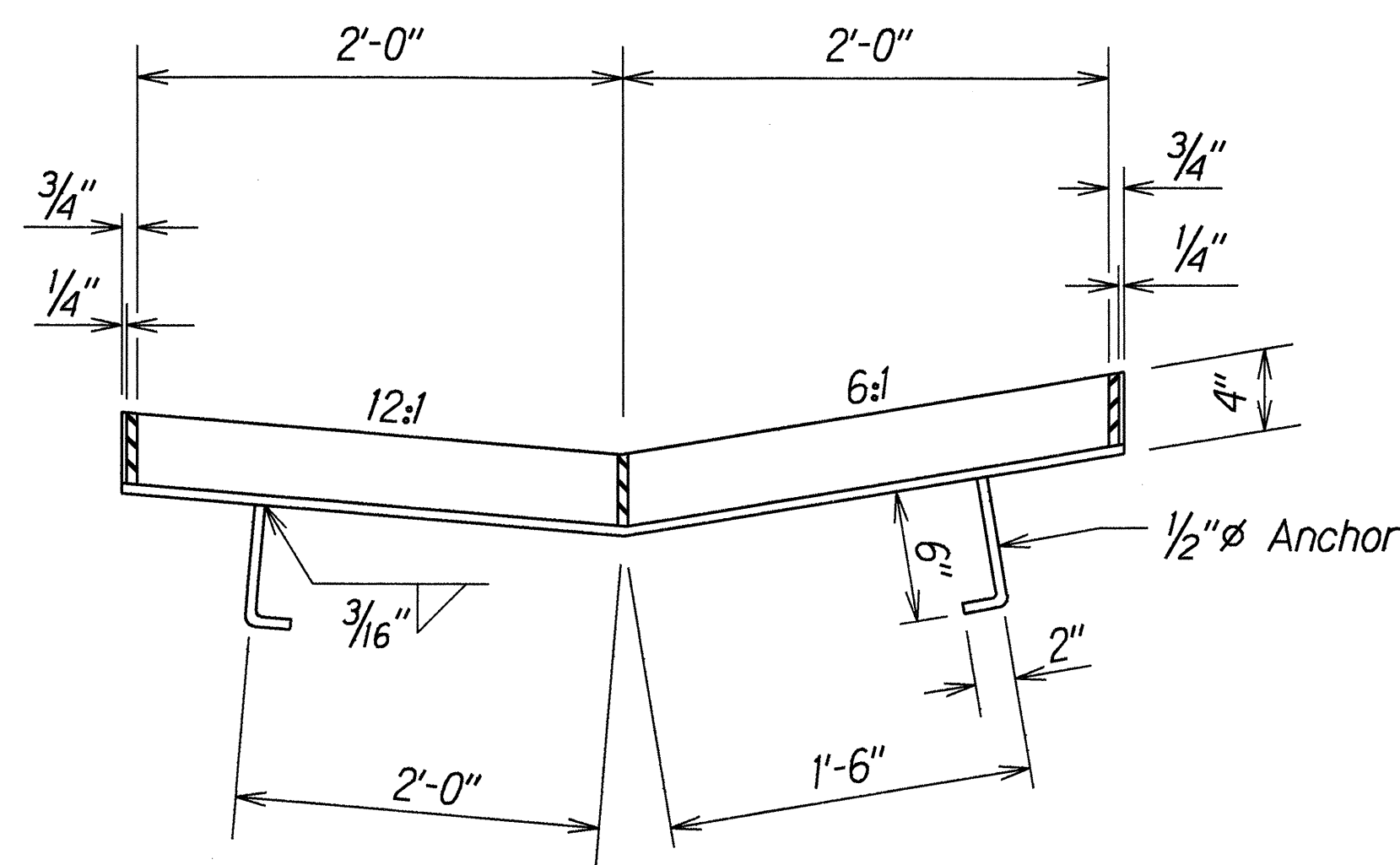
SHEET No. H3 OF 7 SHEETS

"AS-BUILT"

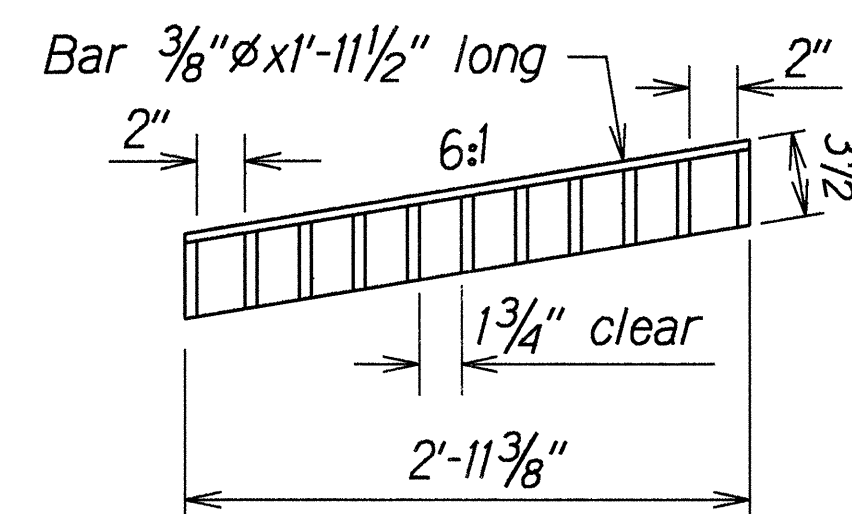
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-093-1(15)	1996	11	12



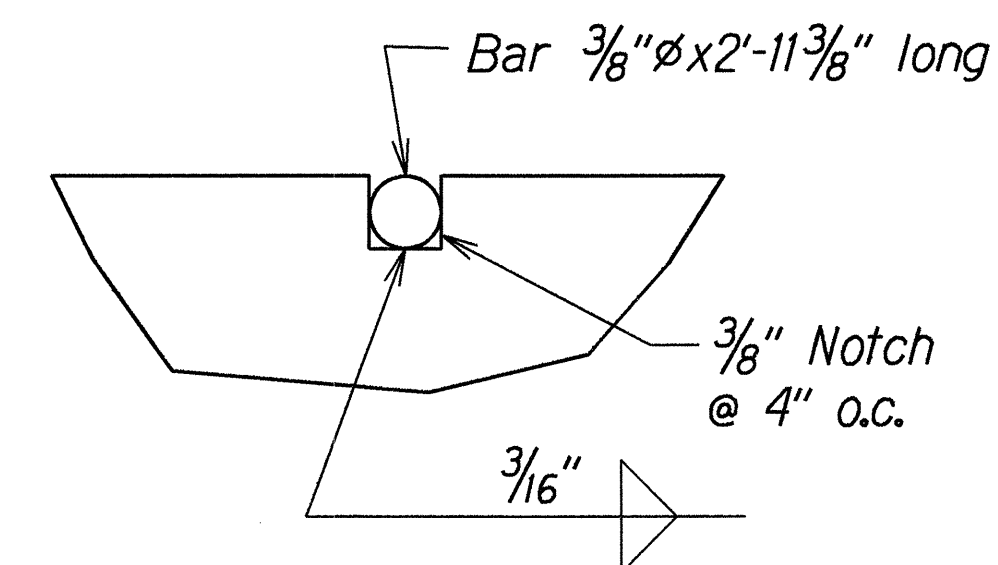
GRATE
Scale: 1 1/2"=1'-0"



FRAME
Scale: 1 1/2"=1'-0"



GRATE
Scale: 1 1/2"=1'-0"



Full Size

NOTE:
All welds 3/8" unless otherwise noted.

TYPICAL DETAILS OF TYPE 611214P STEEL FRAME AND GRATES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

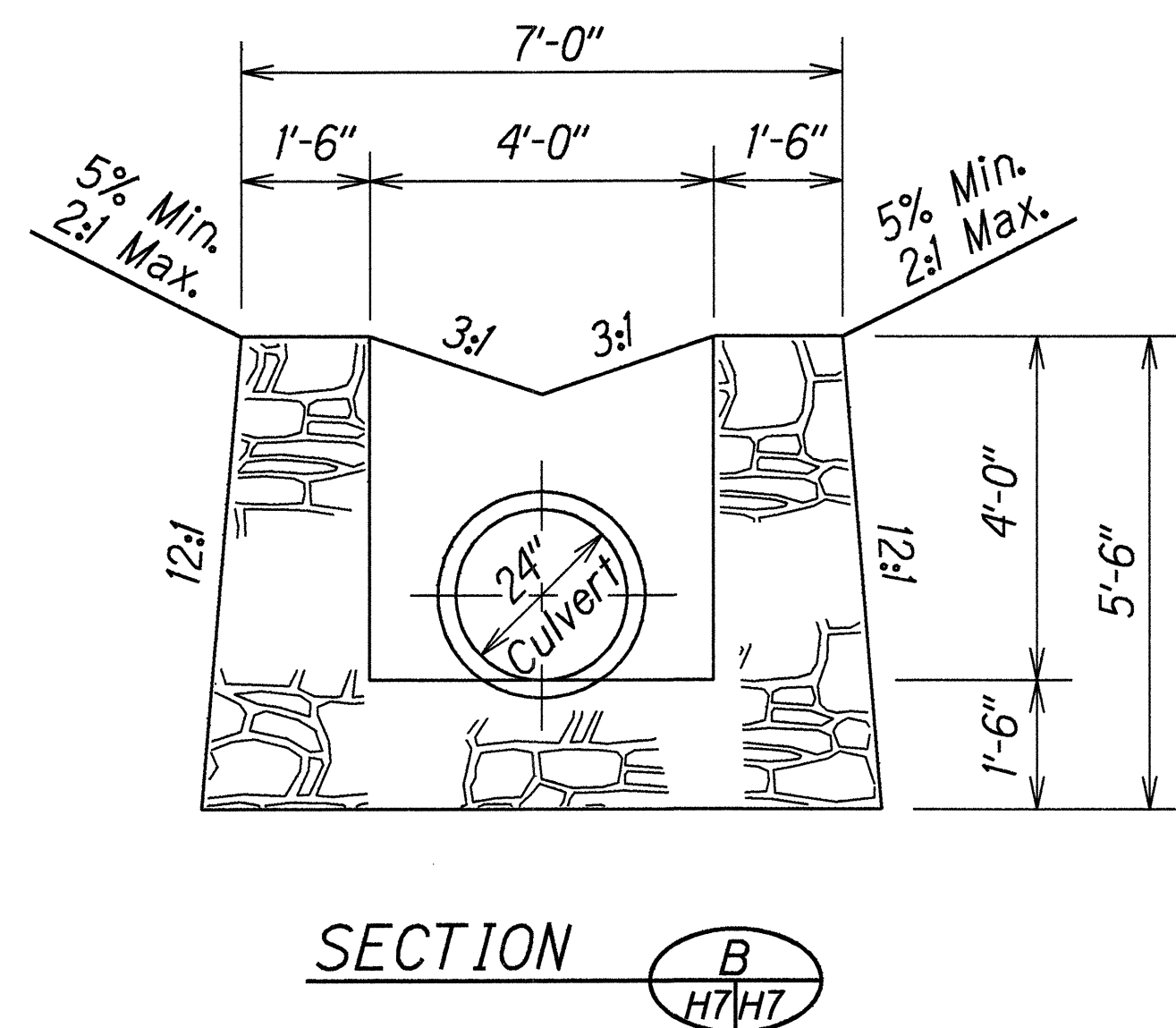
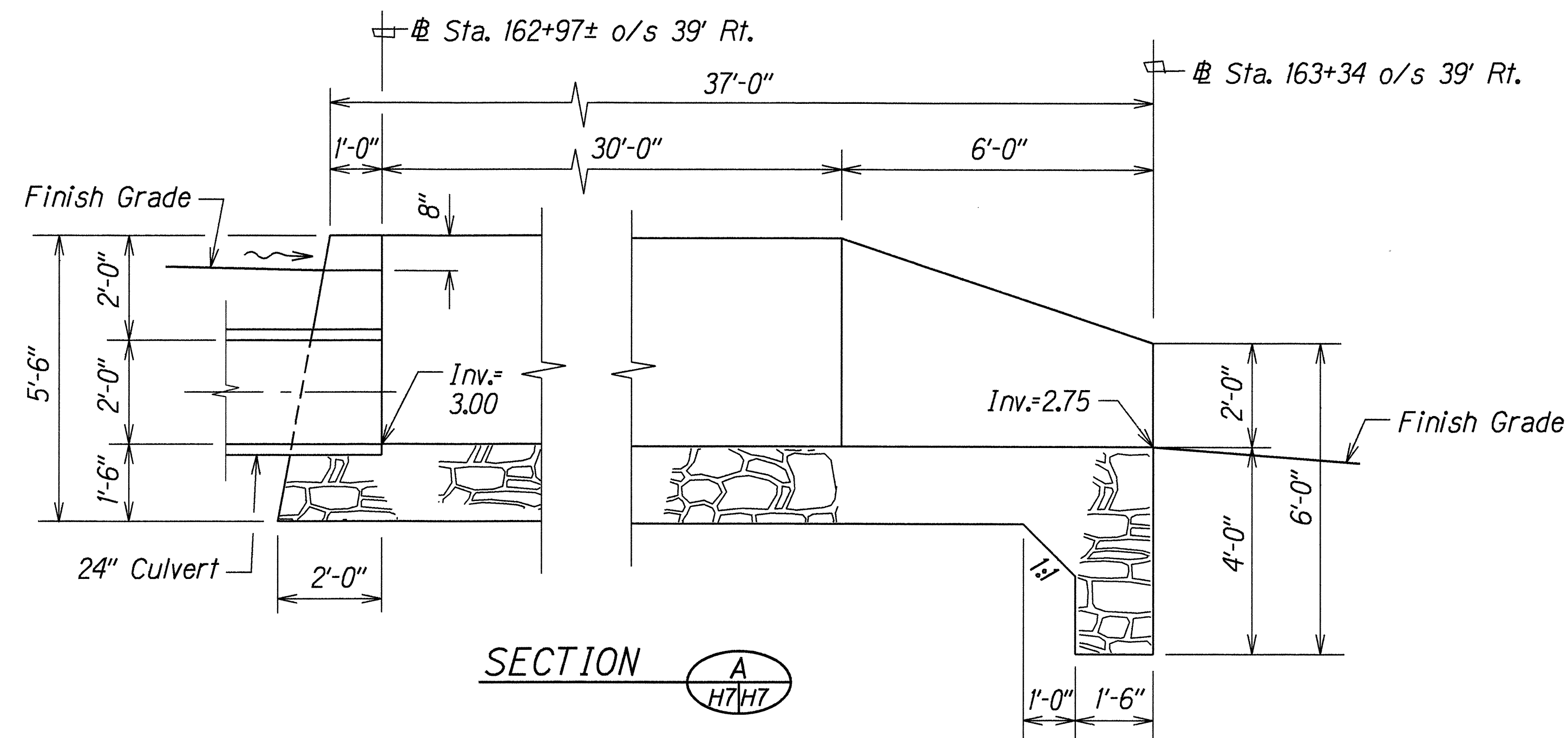
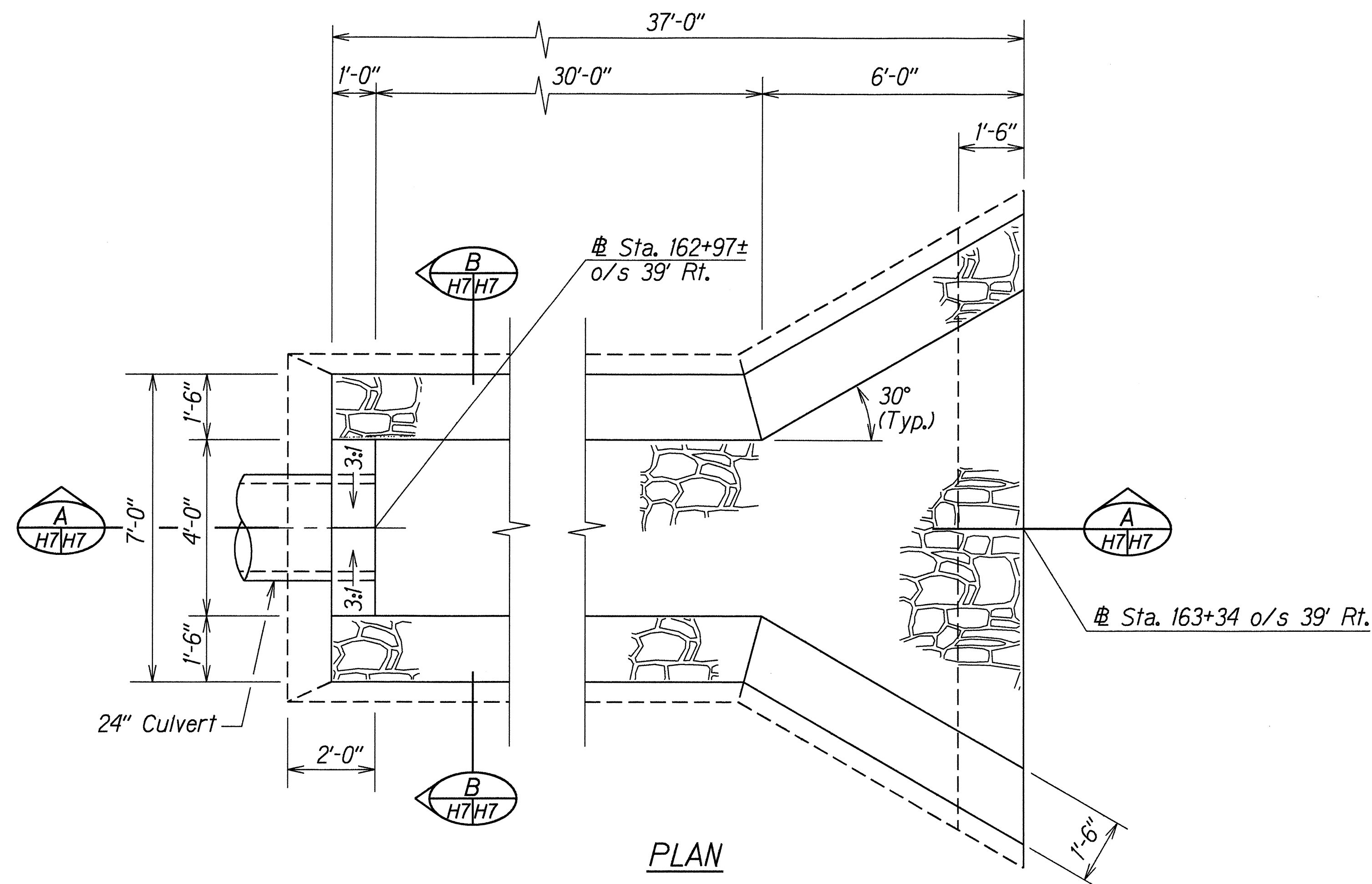
DRAINAGE DETAILS

FARRINGTON HWY. DRAINAGE IMPROVEMENTS
Manuulaula St. to Maili Stream
Fed. Aid Proj. No. STP-093-1(15)

Scale: As Shown Date: Apr. 1996

SHEET No. H6 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-093-1(15)	1996	12	12



DETAILS OF CRM LINED CHANNEL
Scale: 1/2"=1'-0"

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	3/5/96
DRAWN BY	A. Muma
DESIGNED BY	G. Matsuda
CHECKED BY	G. Matsuda

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

FARRINGTON HWY. DRAINAGE IMPROVEMENTS
Manuulaula St. to Maili Stream
Fed. Aid Proj. No. STP-093-1(15)

Scale: 1/2"=1'-0" Date: Apr. 1996

SHEET No. H7 OF 7 SHEETS