

Stations:

- # Sta. 152+73 o/s 55' Lt.
Type 1211214P GDI
Inv.=92.25
(For Typical Details see Sht. No. H5)
- # Sta. 154+25 o/s 54' Lt.
Type 1211214P GDI
Inv.=90.20
- # Sta. 155+88.20 o/s 4' Lt.
- # Sta. 156+15 o/s 55± Lt.
Connect 24" HDPE Culvert to exist.
24"x6' Conc. Box Culvert
Inv.=83.89
Inv.=80.74±
(For Typ. Det. see Sht. H8)
- # Sta. 156+07 o/s 55' Lt.
Type "A" SDMH
Inv.=87.75
Inv.=84.01
- # Sta. 155+75 o/s 56' Lt.
Type 1211214P GDI
Inv.=88.20

Gutter Installation:

- Begin Gutter, Type 2(61614) (For Detail see Sht. No. H7)
- End Gutter, Type 2(61614) at Type 61614P GDI (For Details see Sht. No. H6 & Std. Plan H-11)

CURVE DATA

Δ = 28°00'00"
R = 2,000.00'
T = 498.66'
C = 967.66'
Lc = 977.38'

APPROVED:

Michael J. [Signature]
CHIEF, PLANNING AND ENGINEERING, B.W.S.
CITY AND COUNTY OF HONOLULU

DATE: 2/21/00

"AS-BUILT"

$$\begin{aligned}\Delta &= 28^{\circ}00'00'' \\ R &= 2,000.00' \\ T &= 498.66' \\ C &= 967.66' \\ Lc &= 977.38'\end{aligned}$$

for Michael Jula
CHIEF, PLANNING AND ENGINEERING, B.W.S.
CITY AND COUNTY OF HONOLULU *ca*

0/21/20
DATE

DRAINAGE PLAN

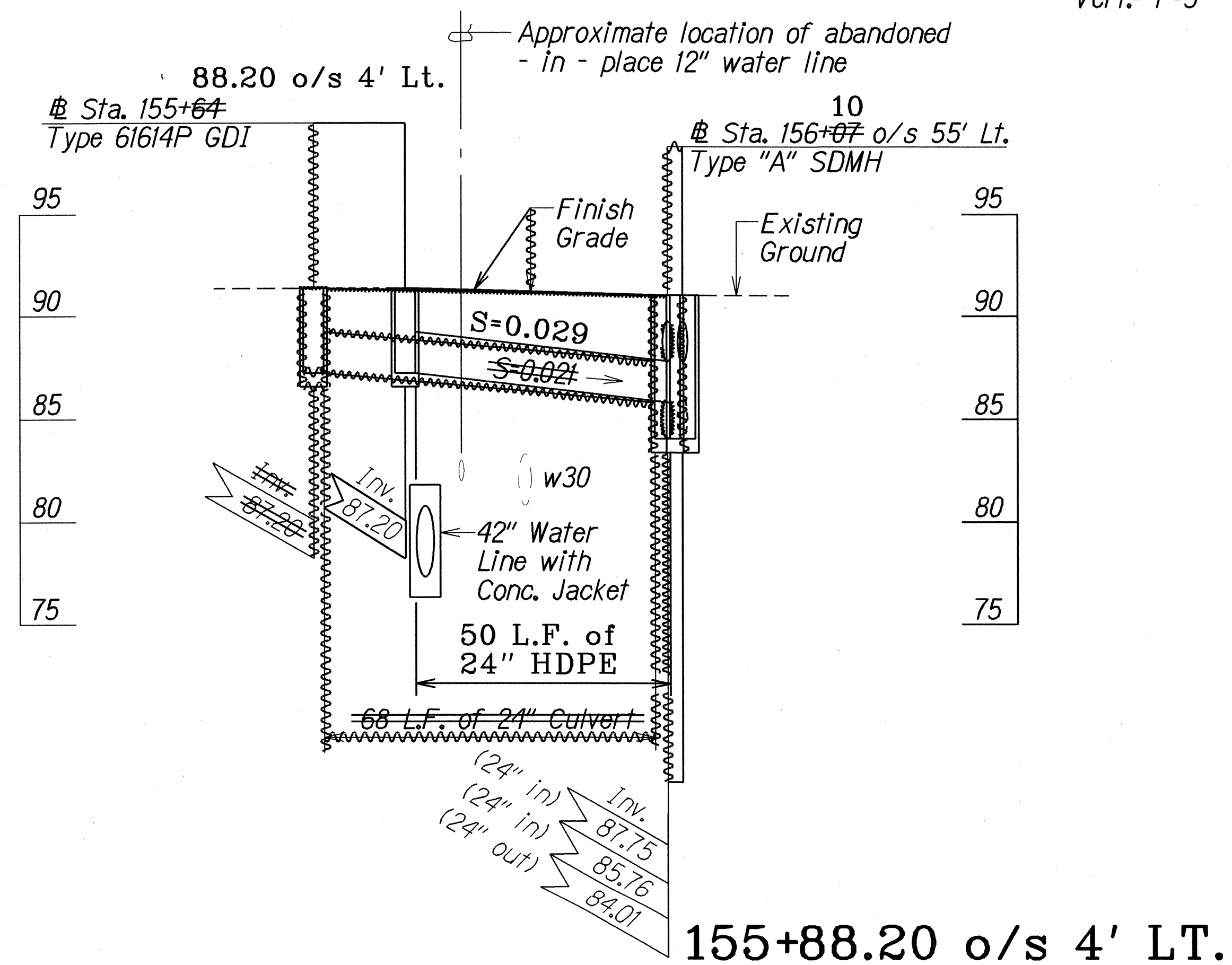
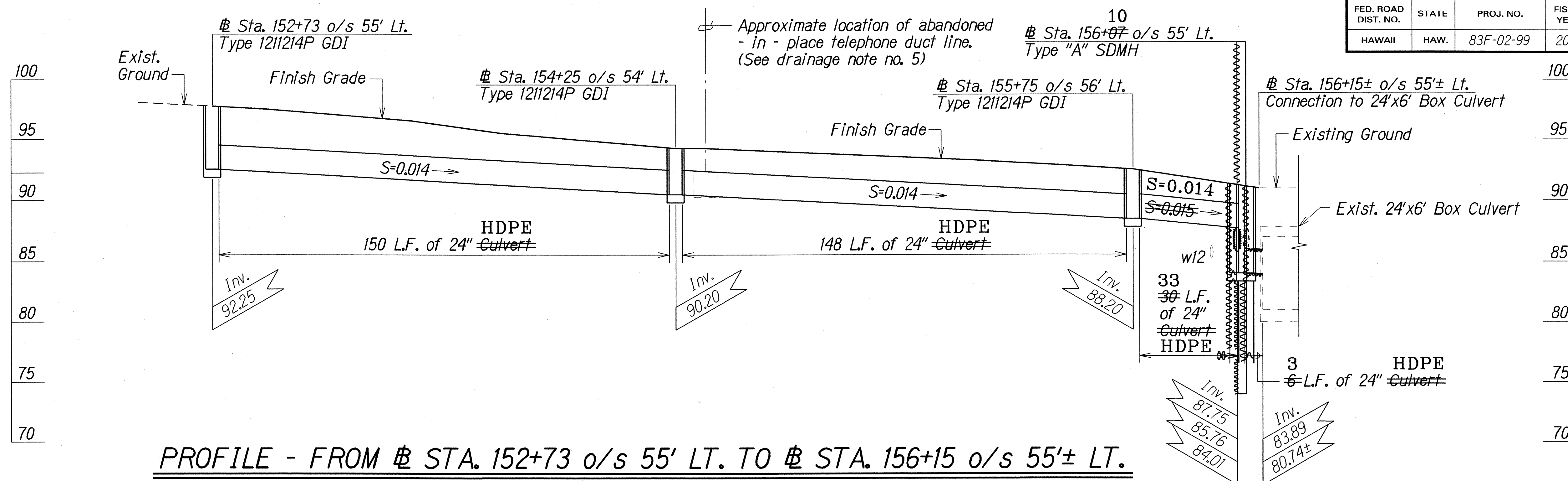
Scale: 1"=20'

Date: Jan. 1999

SHEET No. *H3* OF *8* SHEETS

"AS-BUILT"

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83F-02-99	2000	6	10



155+88.20 o/s 4' LT.

PROFILE - FROM STA. 155+64 TO

156+10

STA. 156+07 o/s 55' LT.

APPROVED:

Michael Tala
CHIEF, PLANNING AND ENGINEERING, B.W.S.
CITY AND COUNTY OF HONOLULU

DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE PROFILE

KAHEKILI HIGHWAY DRAINAGE IMPROVEMENTS

Vicinity of Hui Iwa Street

Project No. 83F-02-99

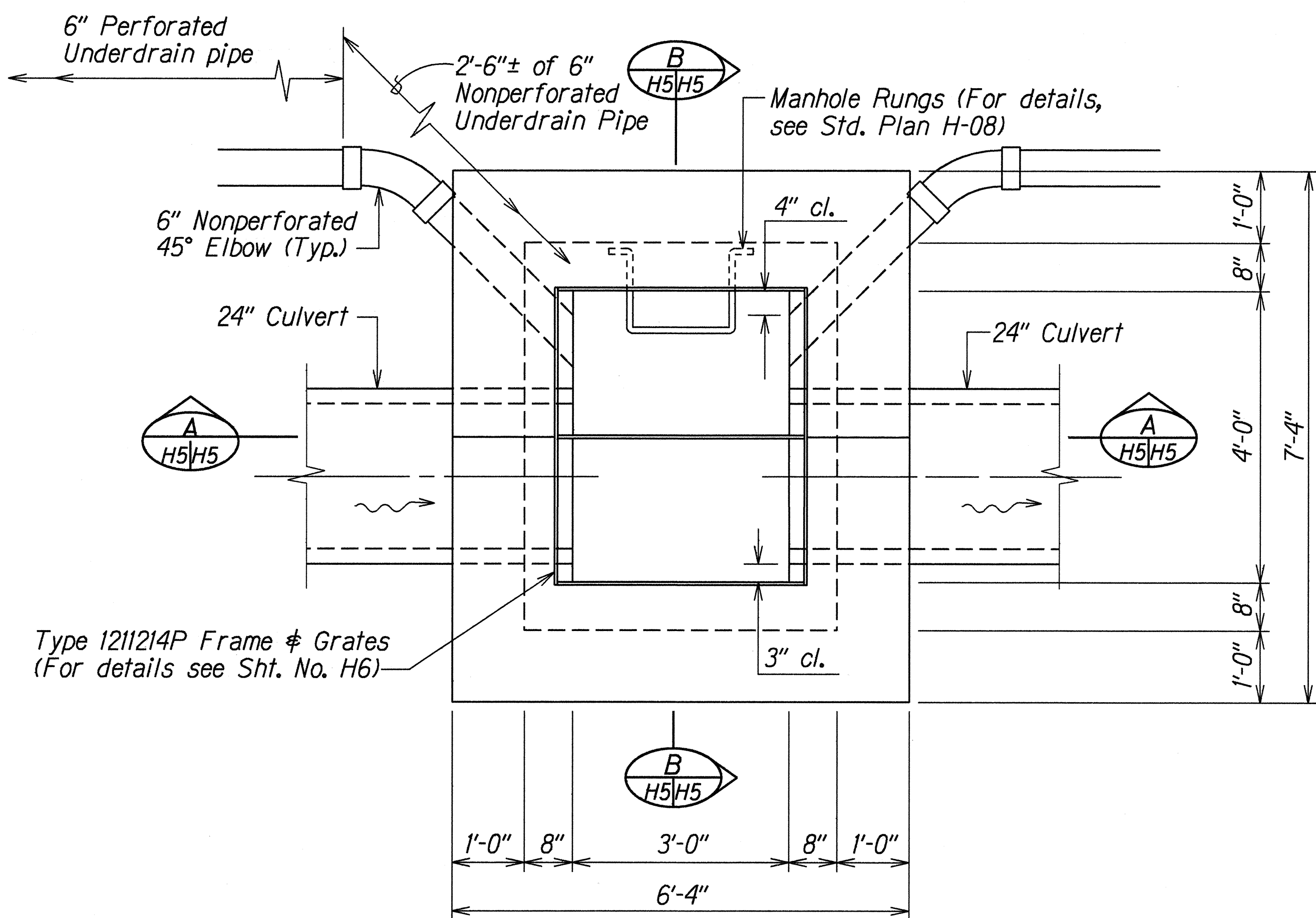
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Jan. 1999

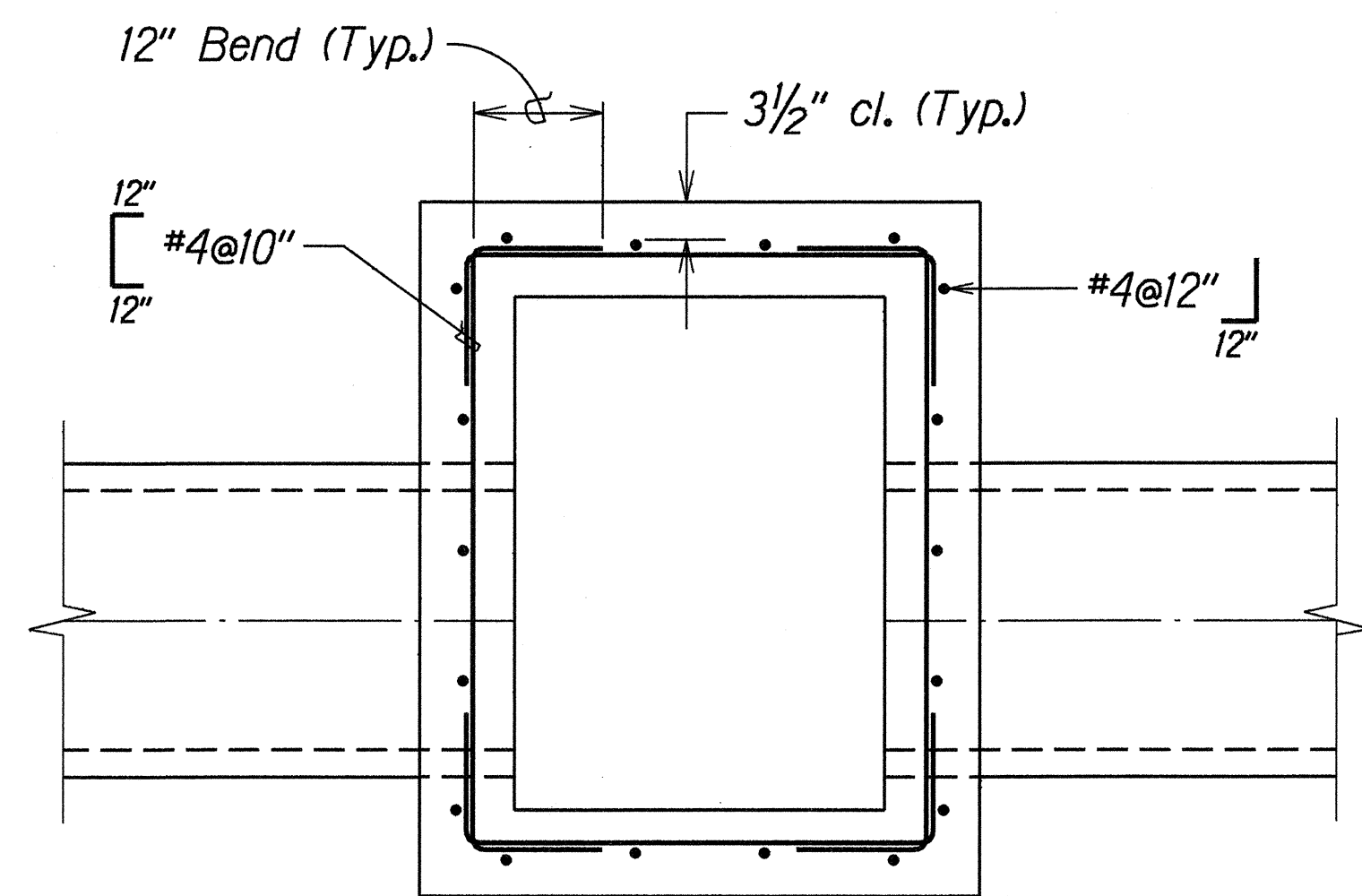
SHEET No. H4 OF 8 SHEETS

"AS-BUILT"

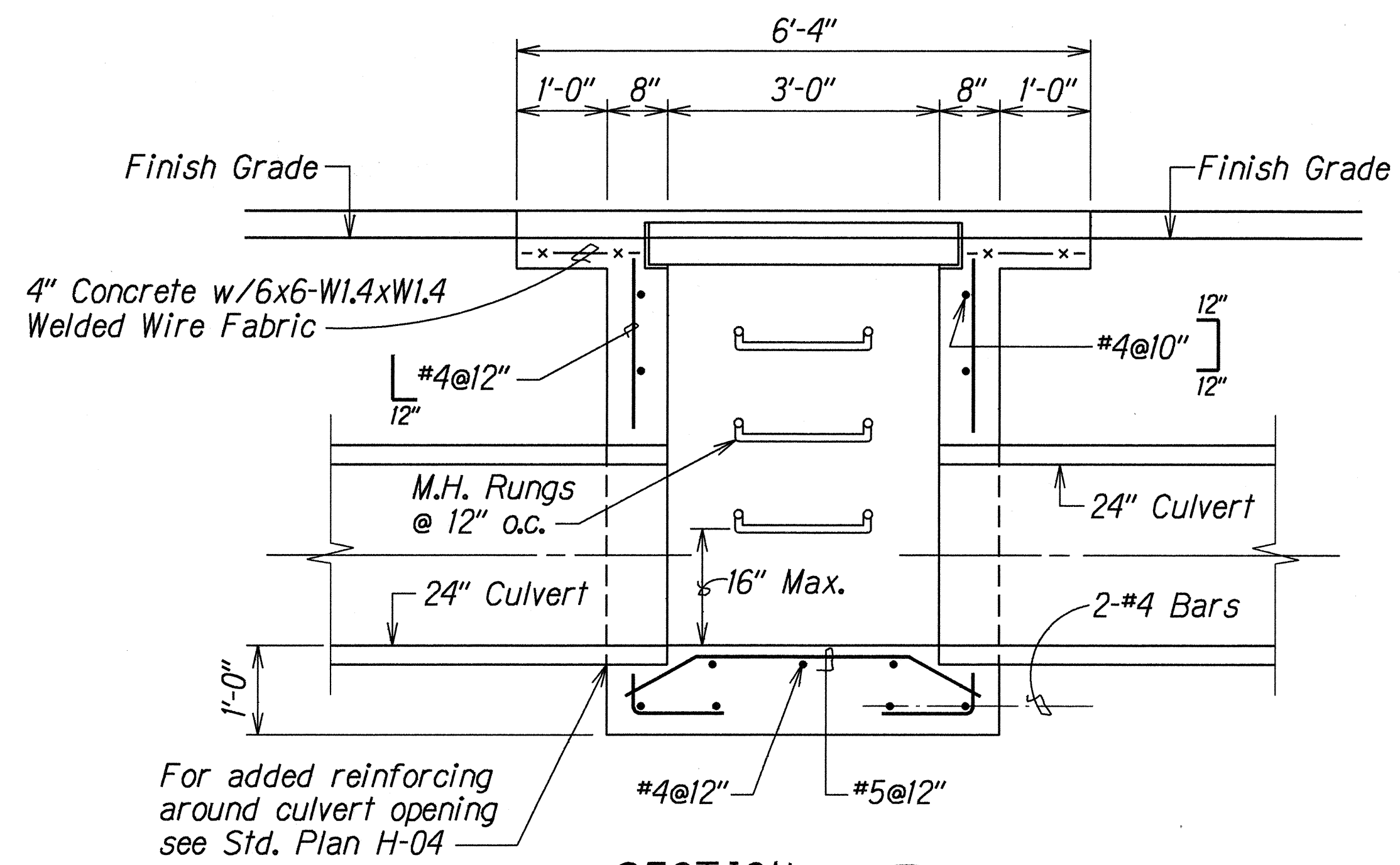
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HAWAII	HAW.	83F-02-99	2000	7	10



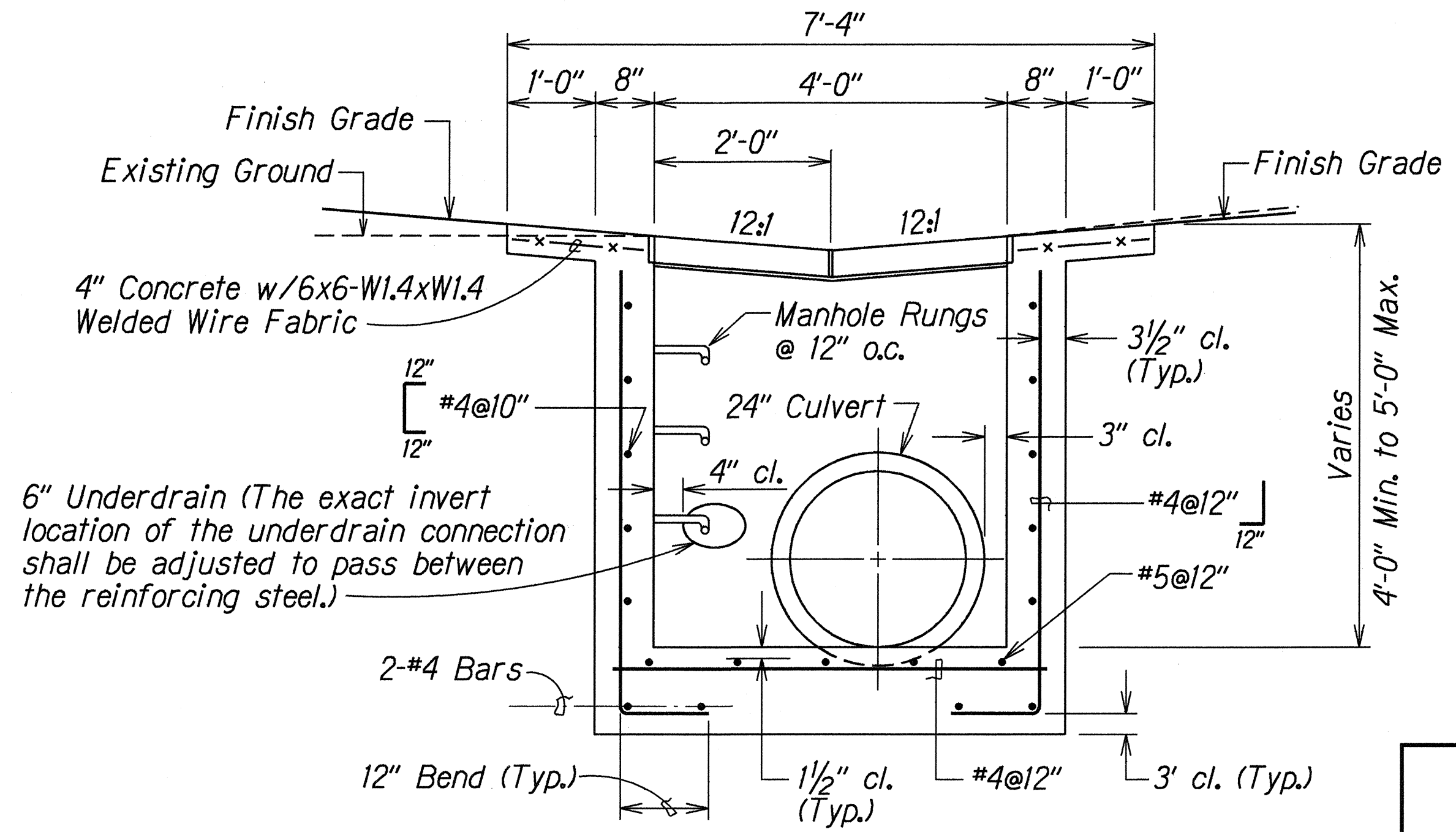
PLAN



PLAN VIEW OF WALL REINFORCING



SECTION A
H5/H5



SECTION B
H5/H5

TYPICAL DETAILS OF TYPE 1211214P GRATED DROP INLET

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

KAHEKILI HIGHWAY DRAINAGE IMPROVEMENTS

Vicinity of Hui Iwa Street

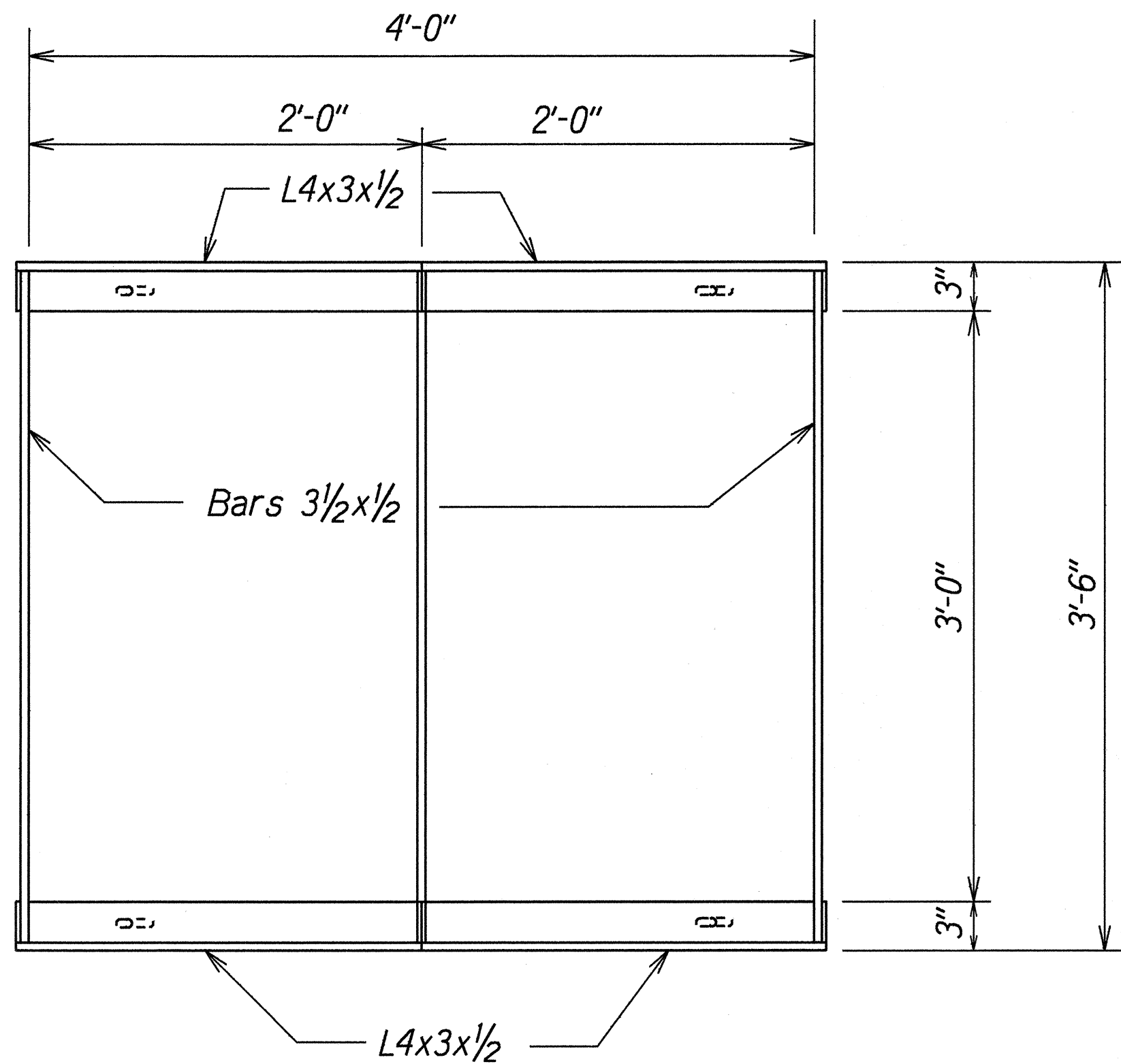
Project No. 83F-02-99

Scale: 3/4" = 1'-0" Date: May, 1999

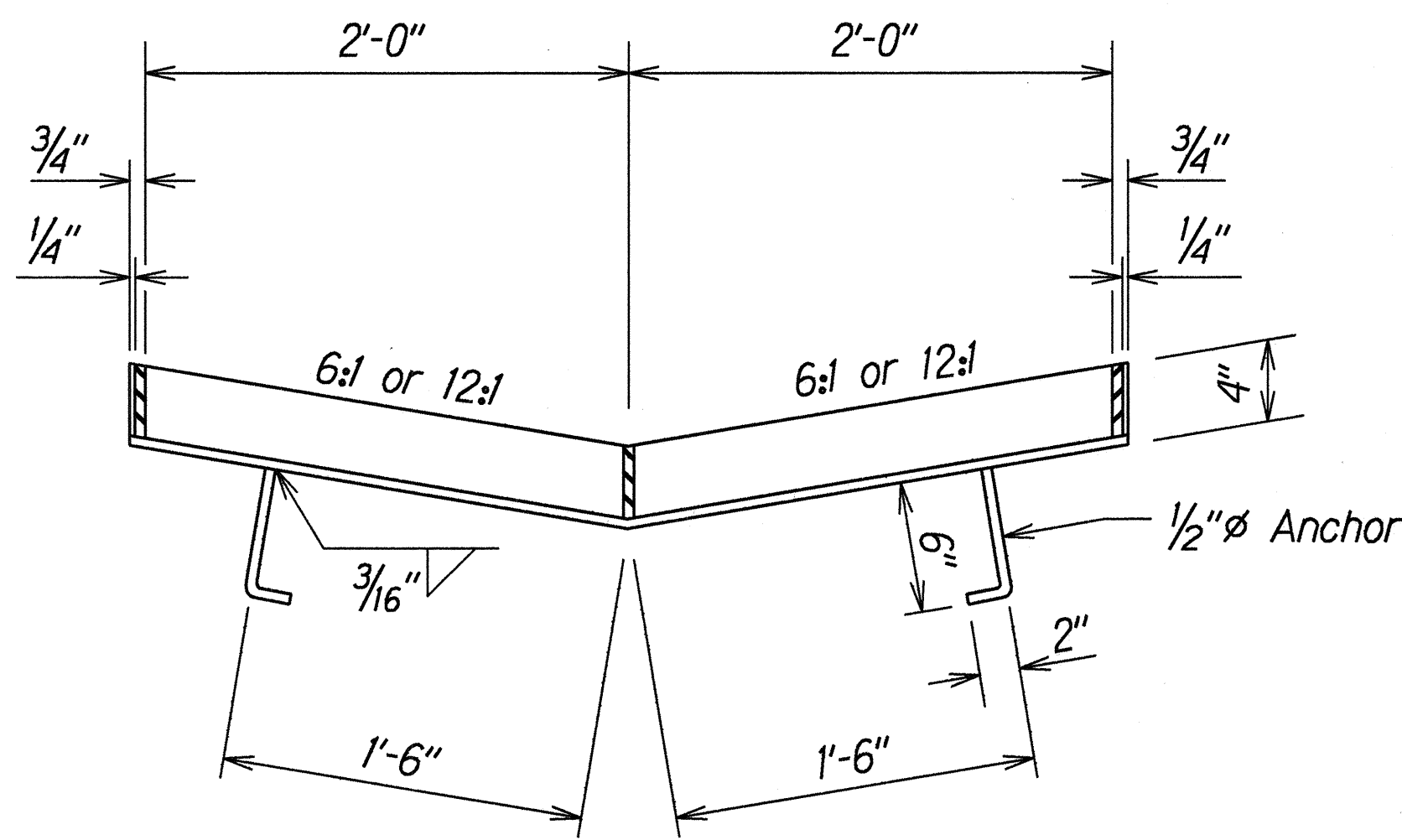
SHEET No. H5 OF 8 SHEETS

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	5/21/99
013randy.3k	DESIGNED BY	
013randy.3k	CHECKED BY	
013randy.3k		

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83F-02-99	2000	8	10



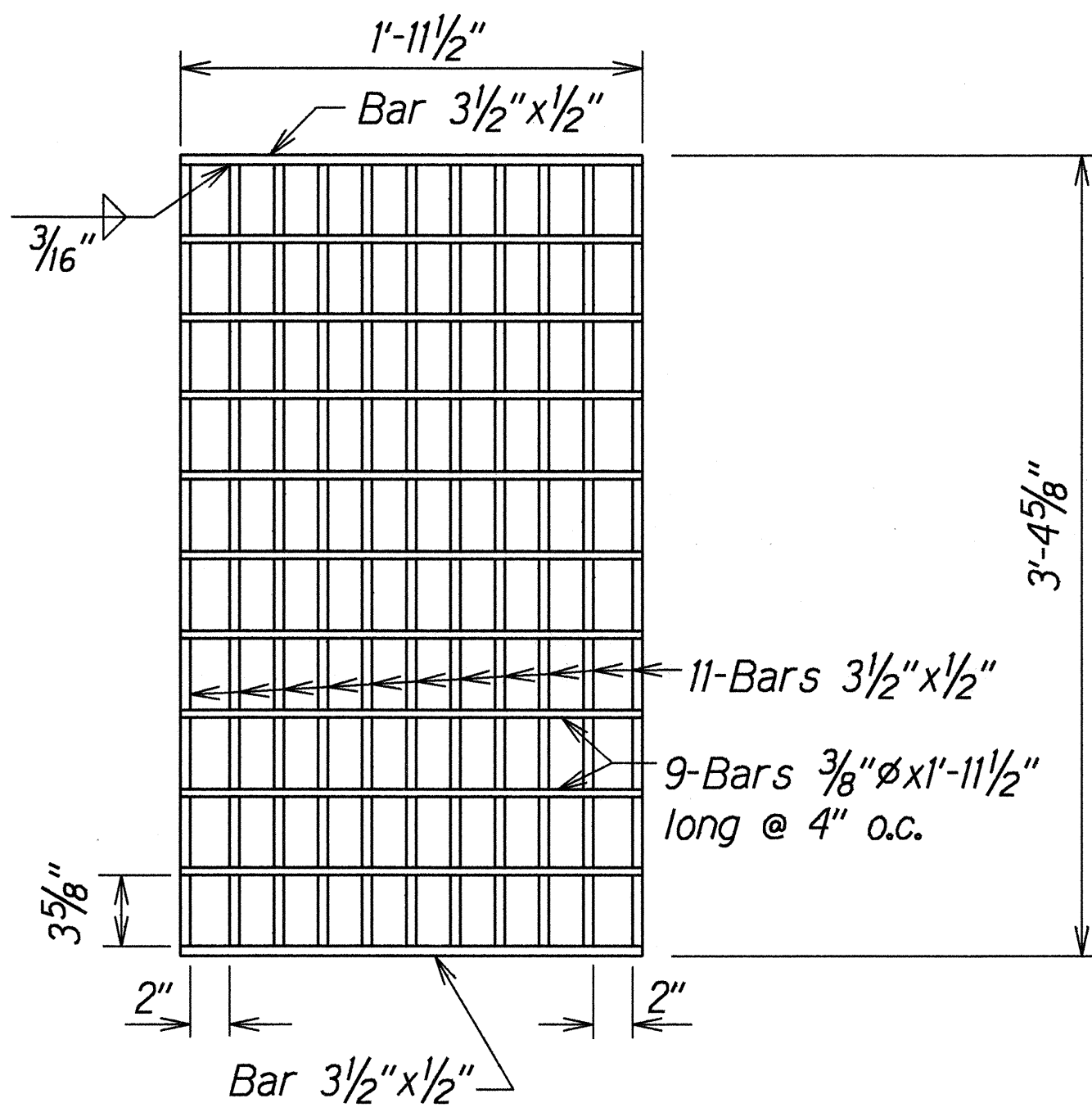
PLAN



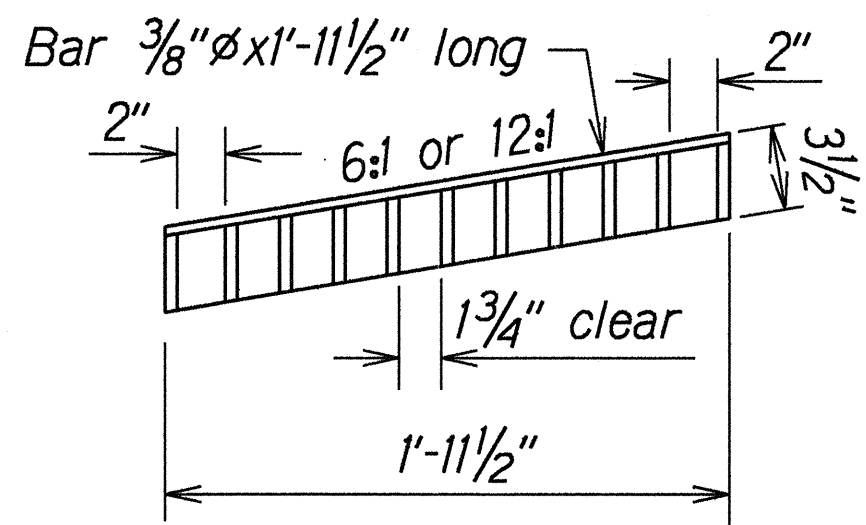
SECTION
FRAME

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

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



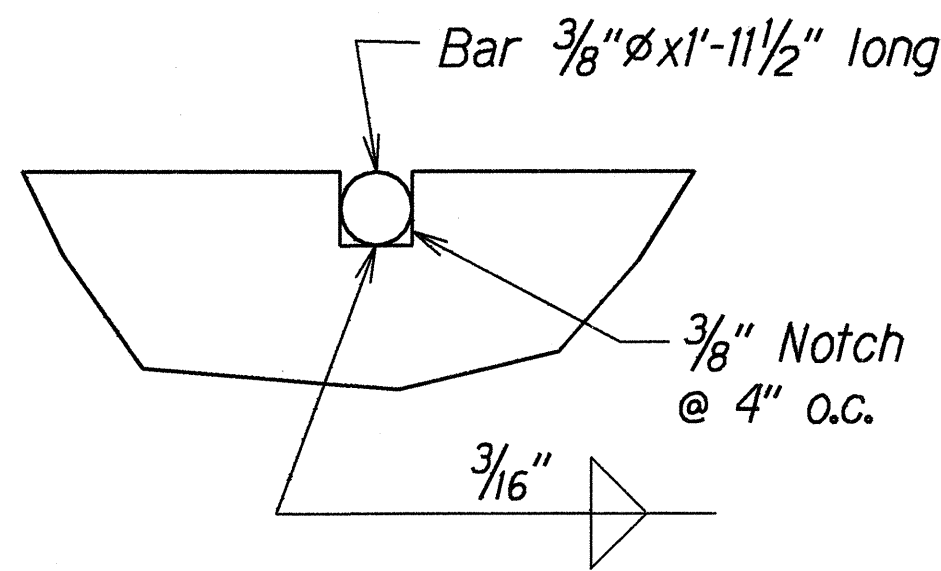
PLAN



SECTION

GRATE

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



NOTCH DETAIL

Full Size

ORIGINAL PLAN	DATE
SURVEY PLANNED BY	5/21/99
DRAWN BY	Alisa Nomura
DESIGNED BY	H. Kawahara, C. Matsuda
CHECKED BY	3/1/04

TYPICAL DETAILS OF TYPE 61614P OR 1211214P STEEL FRAME AND GRATES

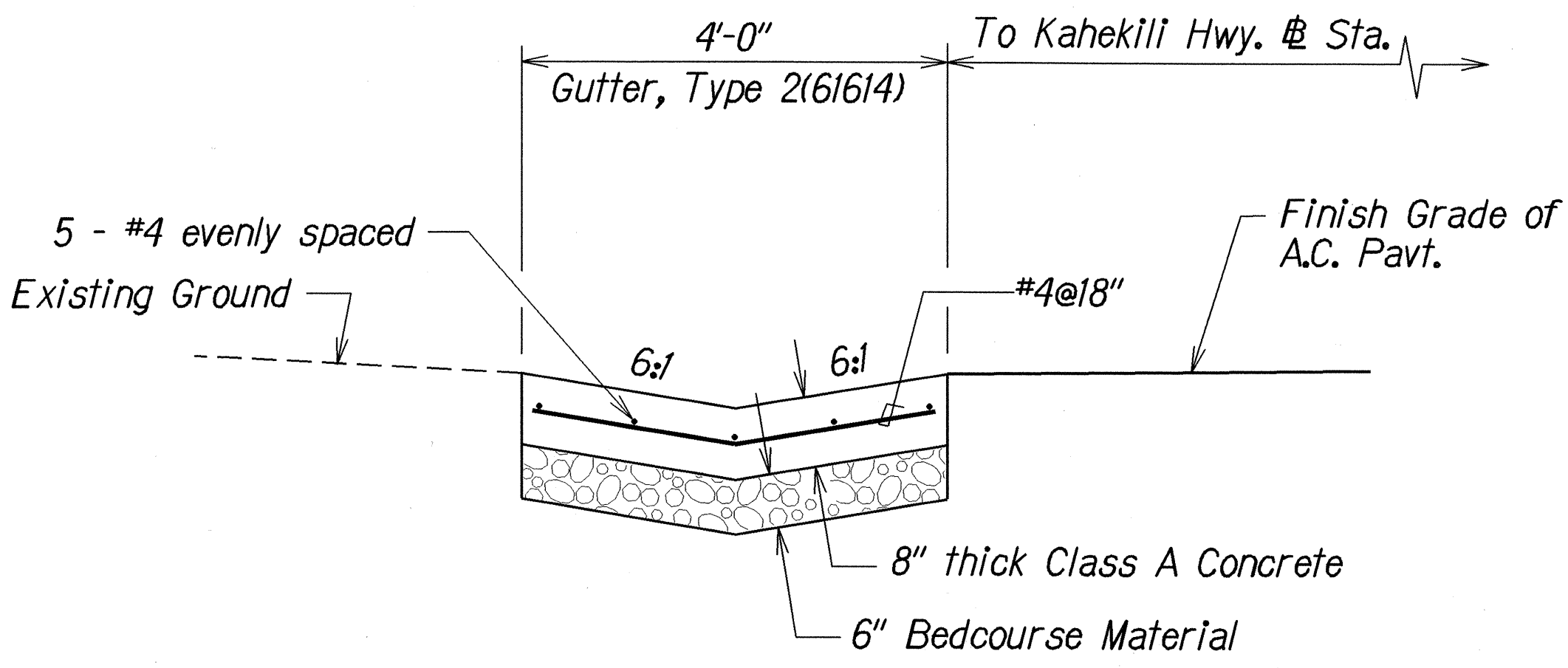
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS
KAHEKILI HIGHWAY DRAINAGE IMPROVEMENTS
Vicinity of Hui Iwa Street
Project No. 83F-02-99

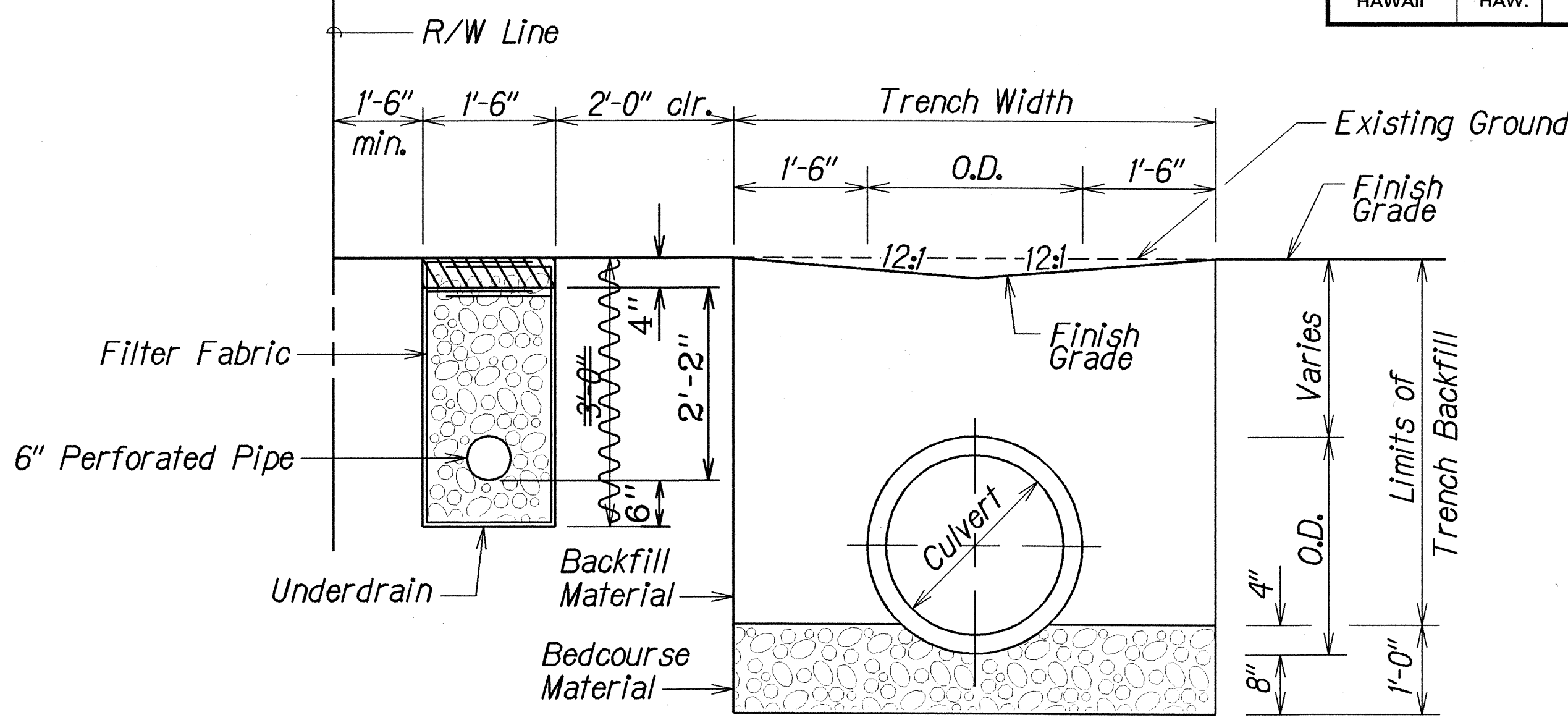
Scale: As Shown
Date: May 1999

SHEET No. H6 OF 8 SHEETS

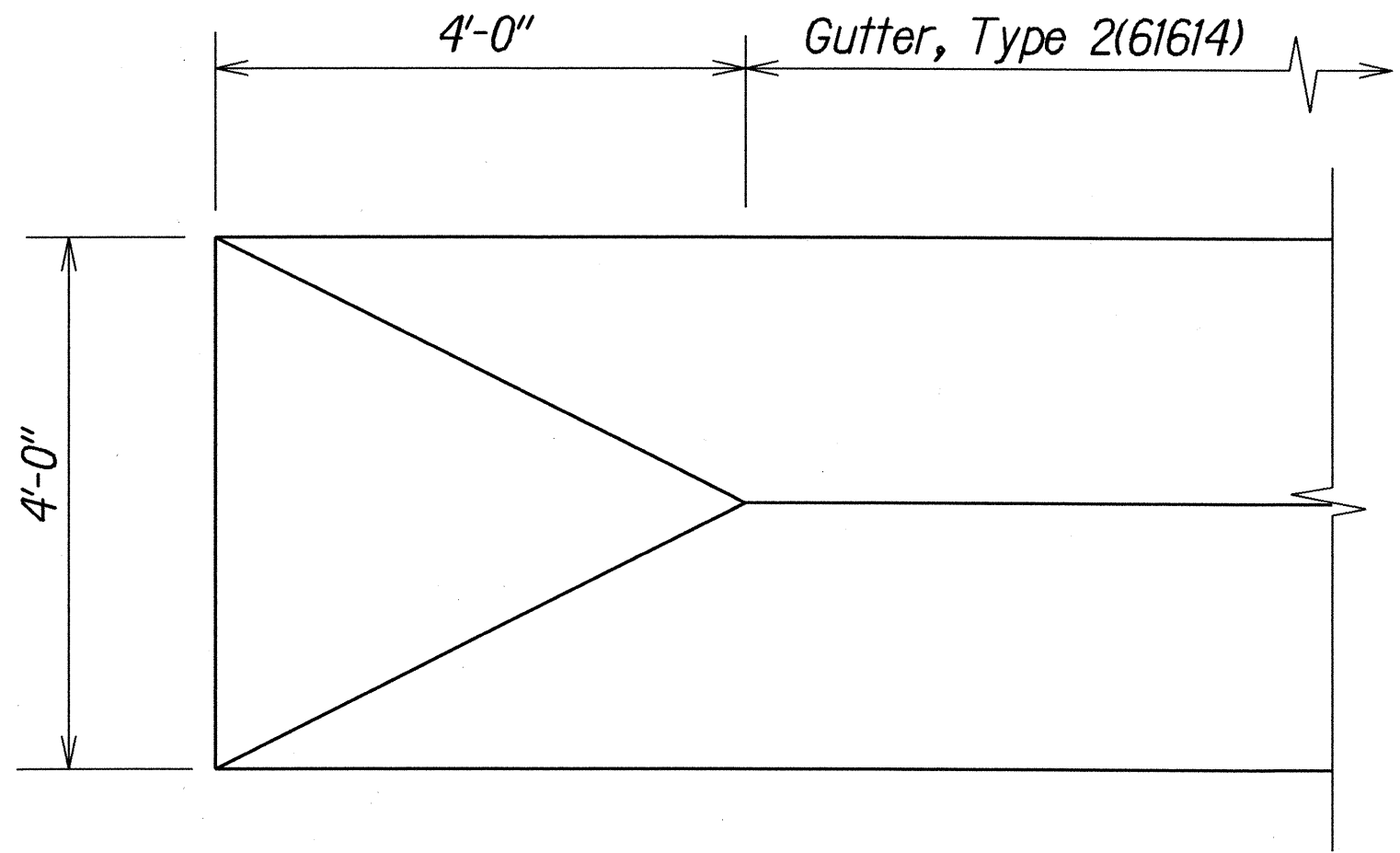
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83F-02-99	2000	9	10



DETAIL OF GUTTER, TYPE 2(61614)



TYPICAL DETAIL OF CULVERT & UNDERDRAIN TRENCH RESTORATION



TYPICAL DETAIL OF 4' CONCRETE GUTTER TRANSITION

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	5/21/99
dh3/eng/3/99	CHECKED BY	
dh3/eng/3/99	QUANTITIES BY	
dh3/eng/3/99	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

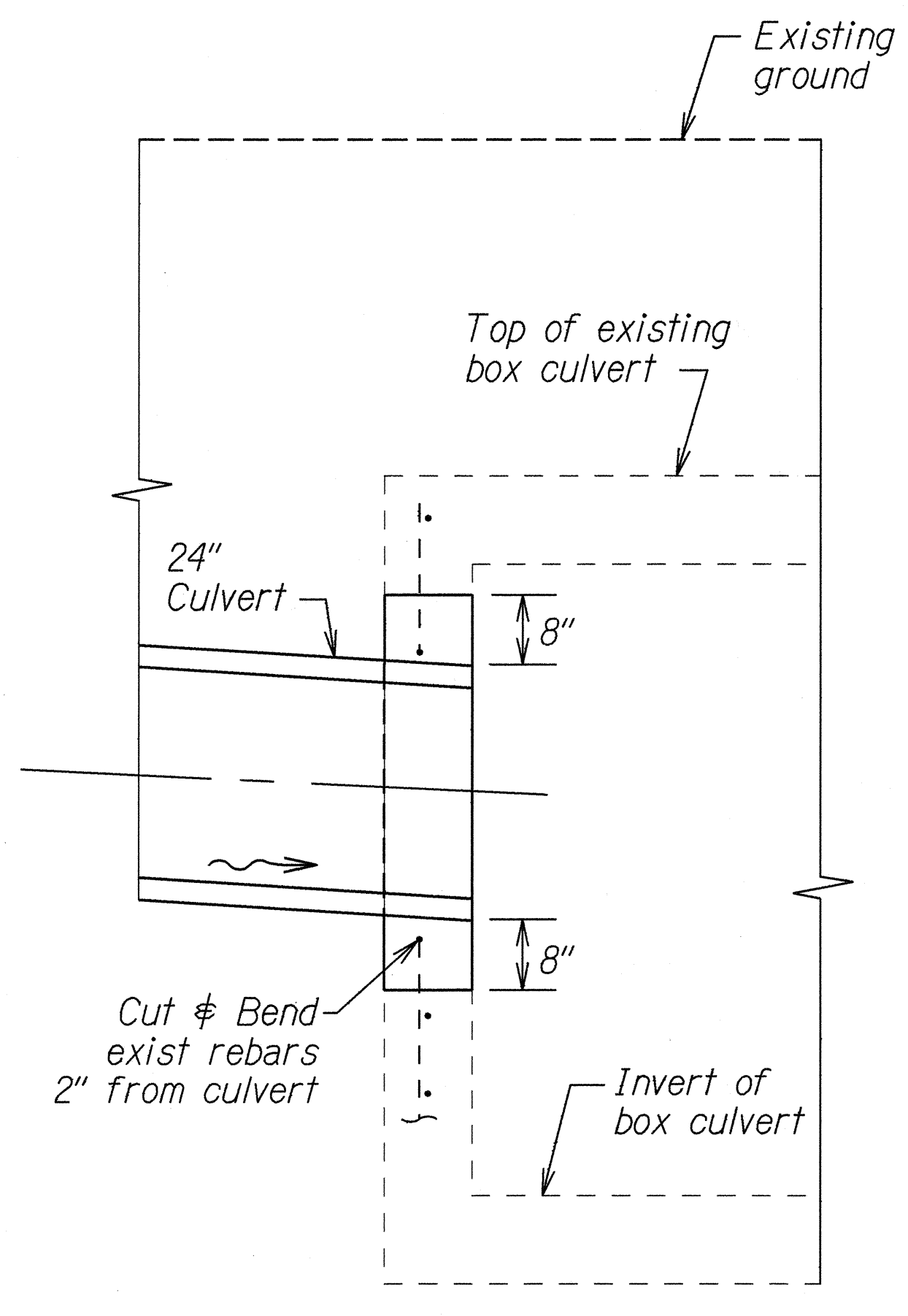
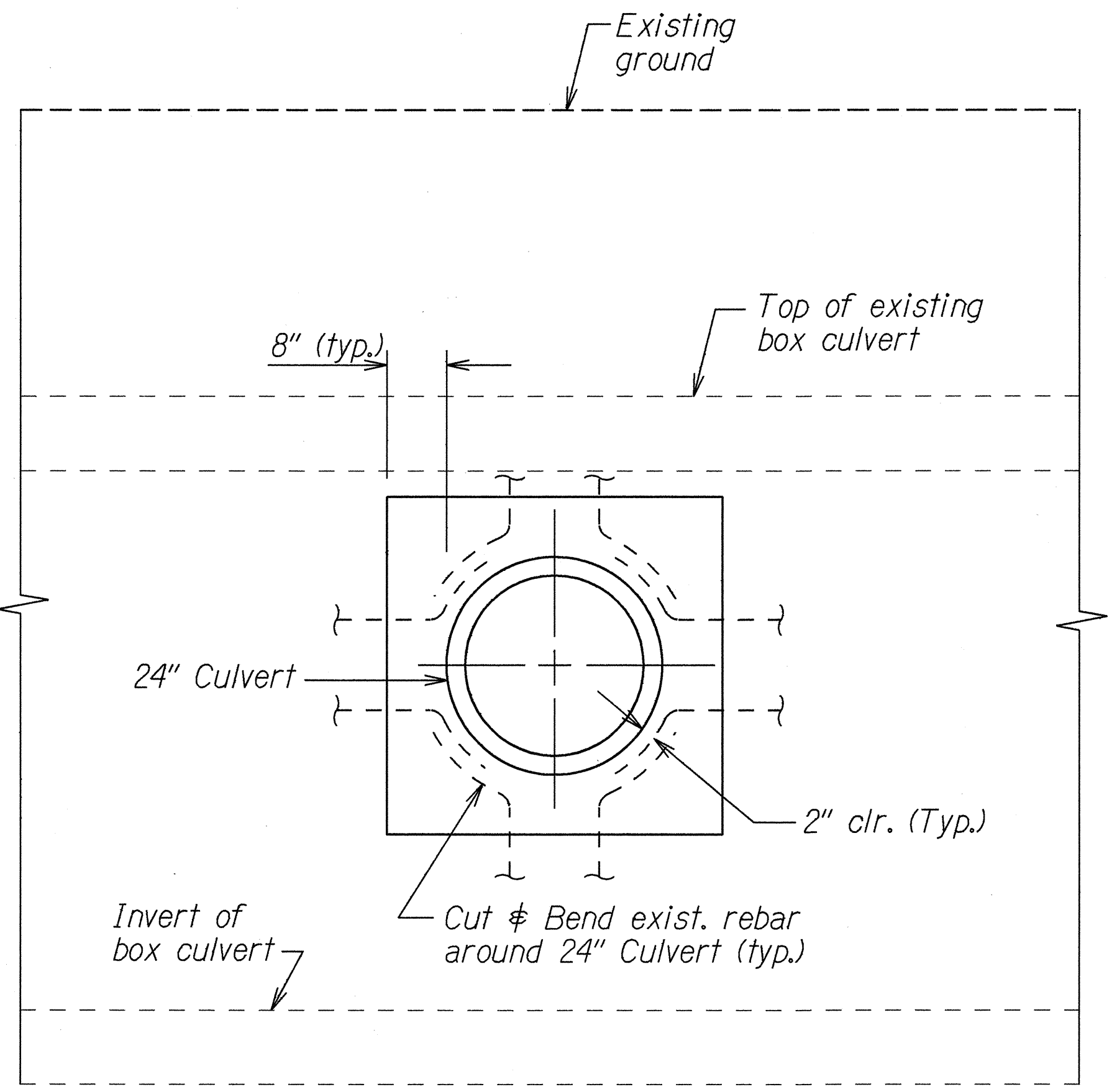
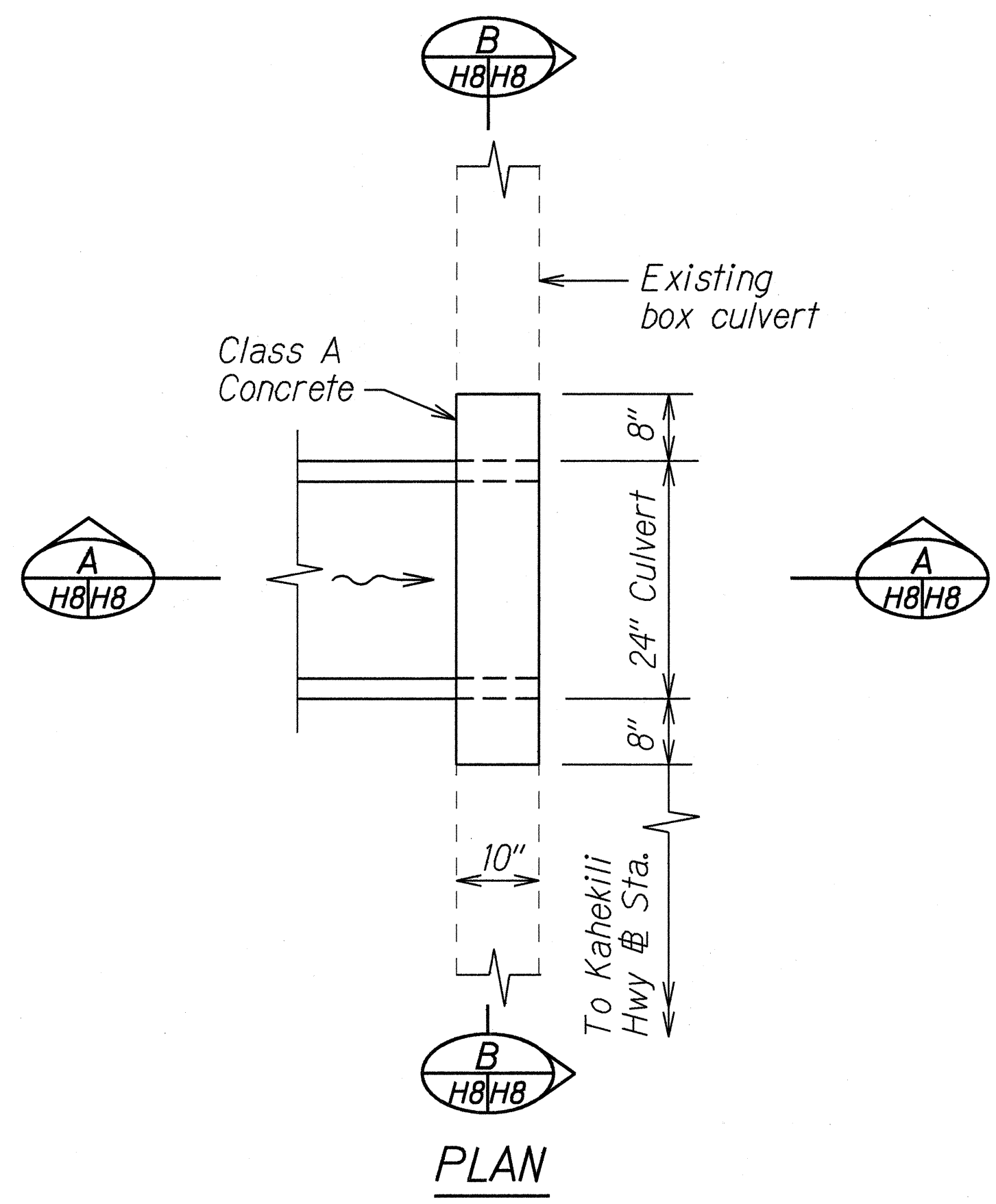
DRAINAGE DETAILS

KAHEKILI HIGHWAY DRAINAGE IMPROVEMENTS
Vicinity of Hui Iwa Street
Project No. 83F-02-99

Scale: 3/4"=1'-0" Date: May 1999

SHEET No. **H7** OF **8** SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83F-02-99	2000	10	10



DETAIL OF 24" CULVERT CONNECTION TO EXISTING CONCRETE BOX CULVERT

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DRAWN BY	5/27/99
dist. 3/99	DESIGNED BY	
dist. 3/99	CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

KAHEKILI HIGHWAY DRAINAGE IMPROVEMENTS

Vicinity of Hui Iwa Street

Project No. 83F-02-99

Scale: 3/4"=1'-0" Date: May 1999

SHEET No. H8 OF 8 SHEETS