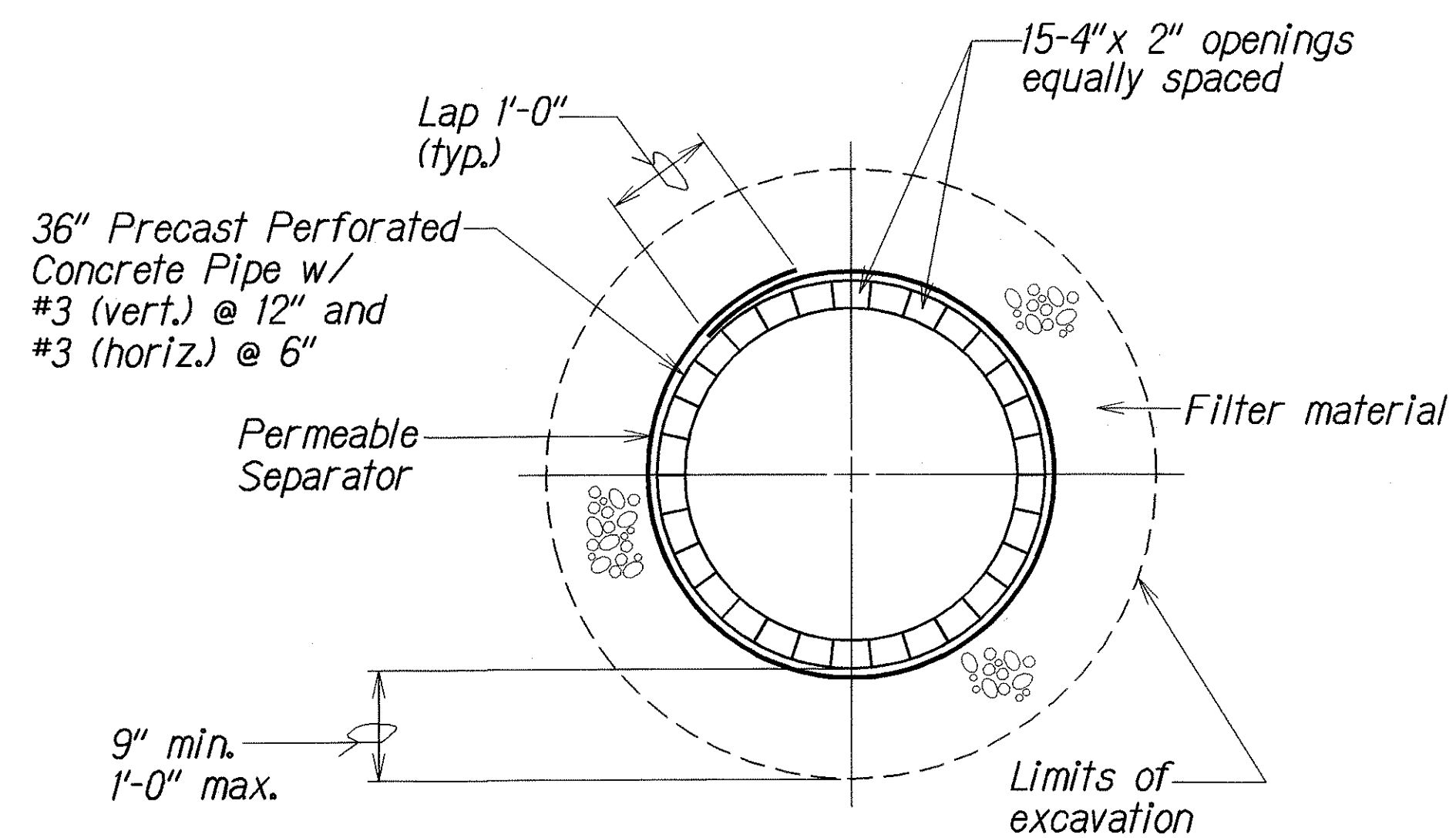
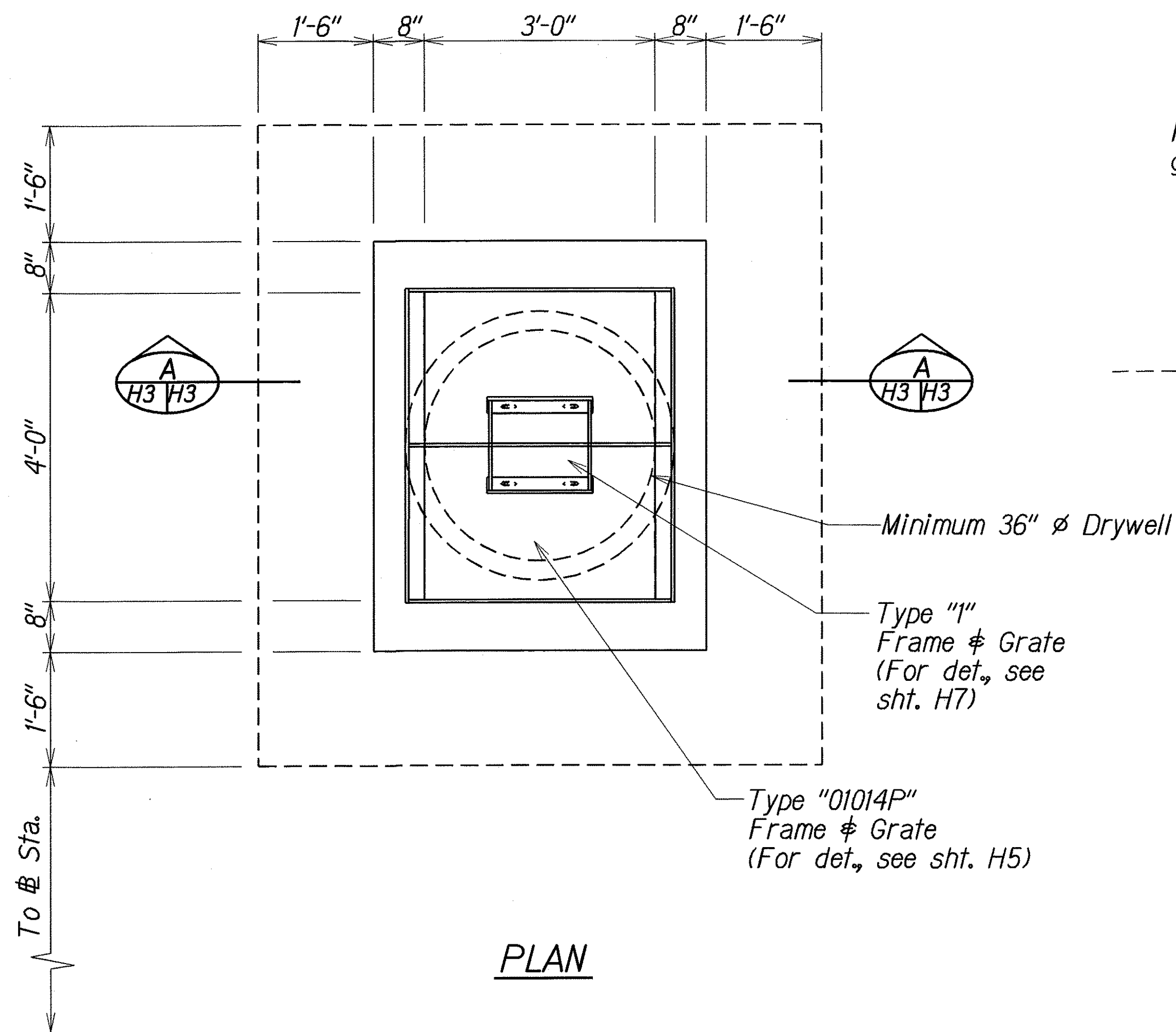
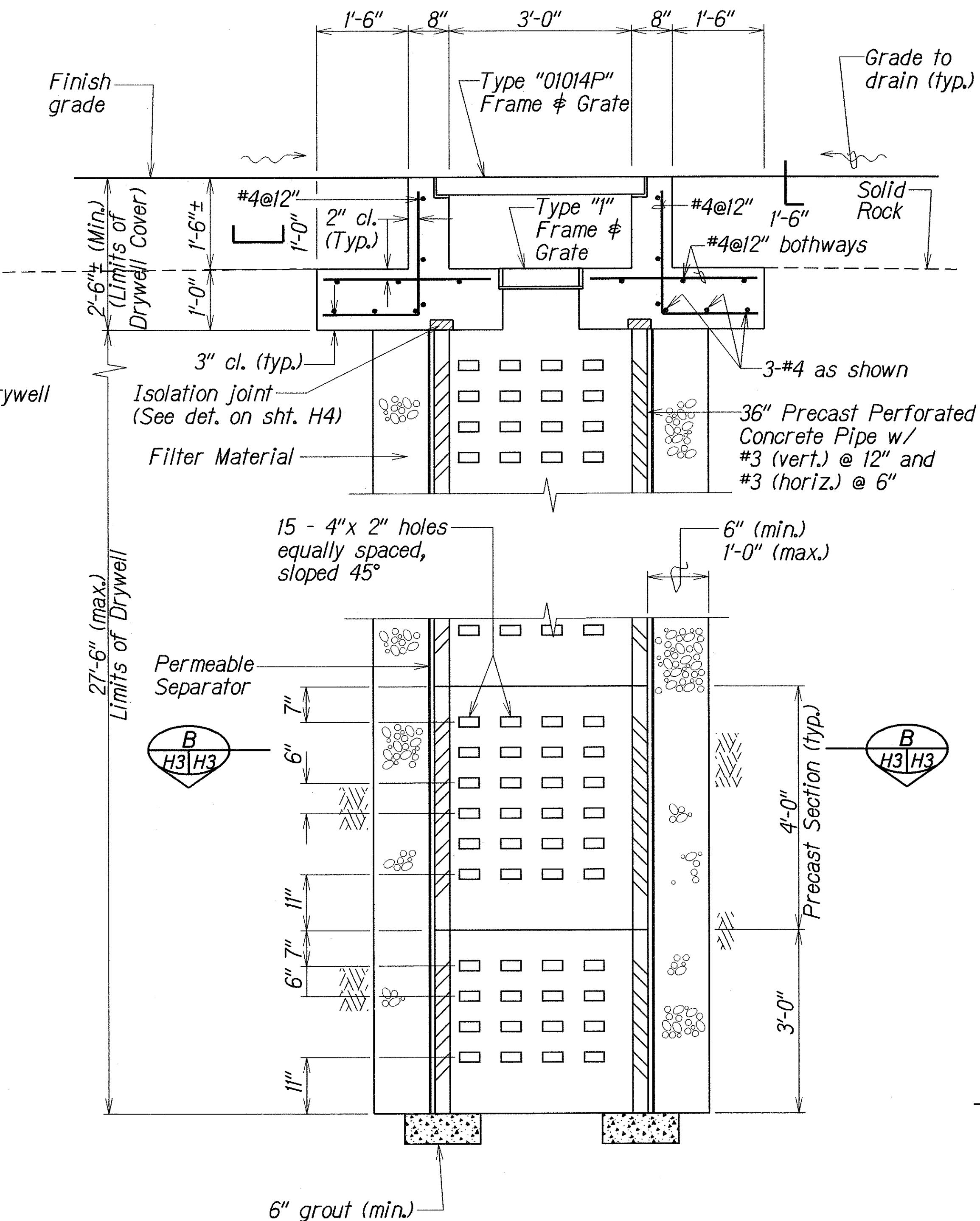


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11BC-02-01	2003	9	13

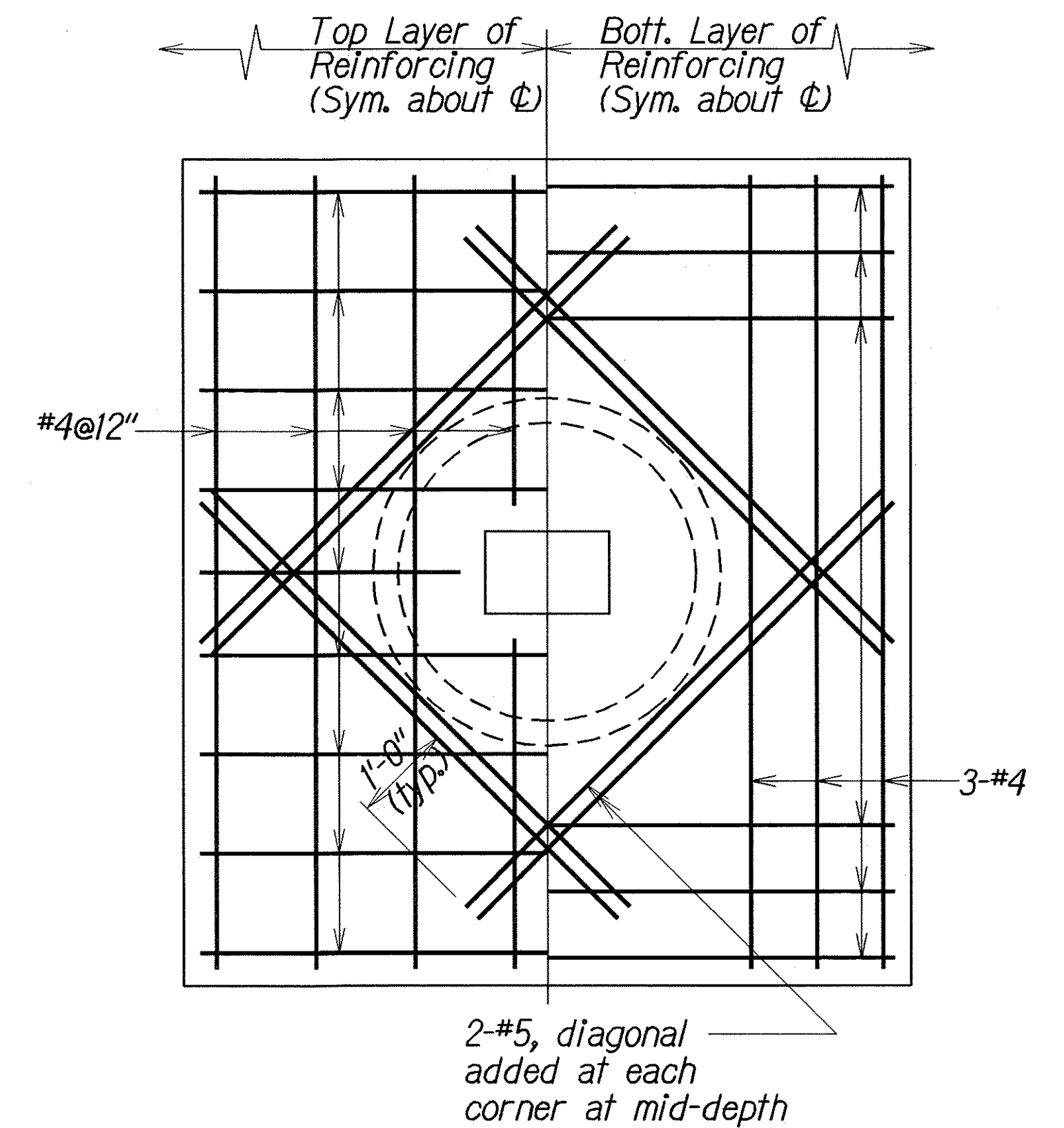


SECTION B
H3/H3

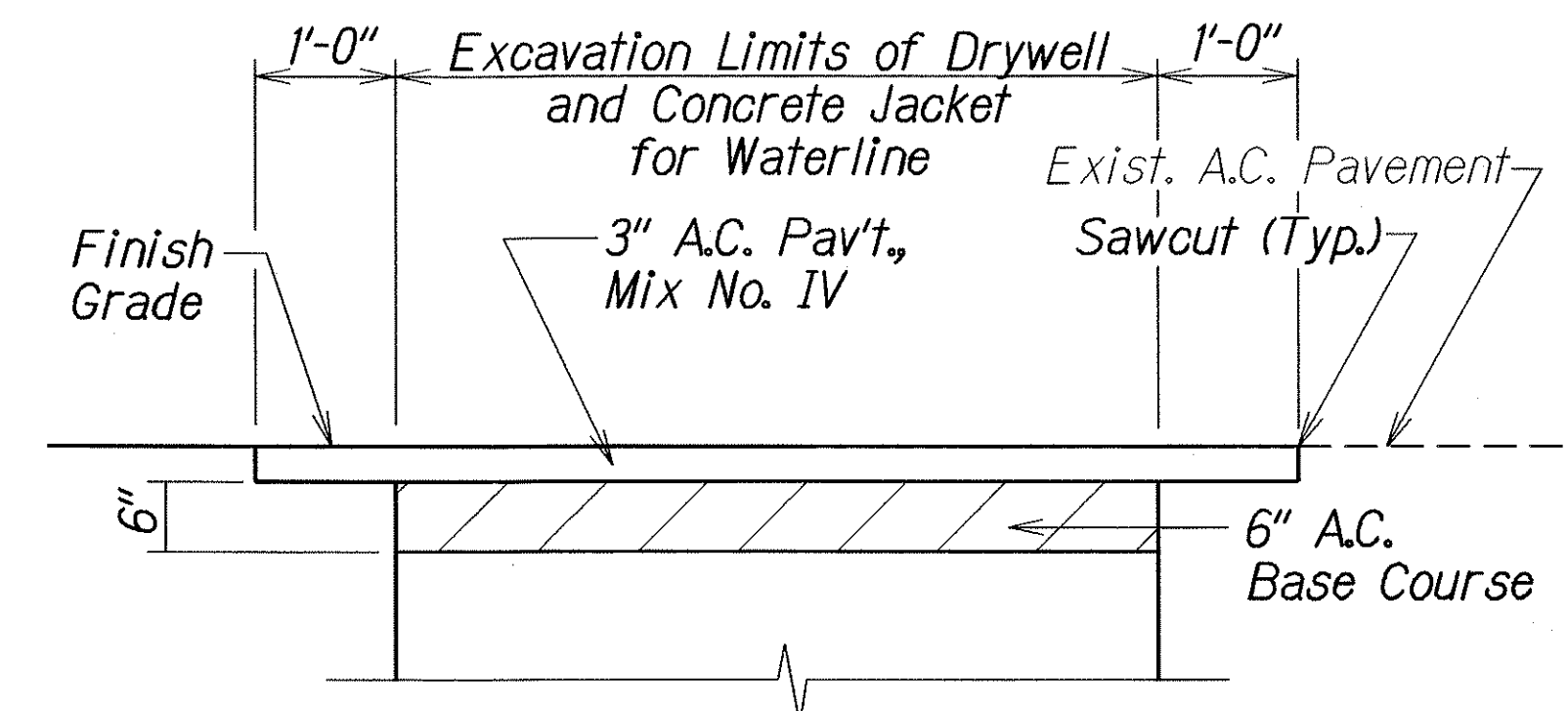
TYPICAL DETAILS OF TYPE "1" DRYWELL COVER AND DRYWELL AT STA. 421+56± LT.



SECTION A
H3/H3



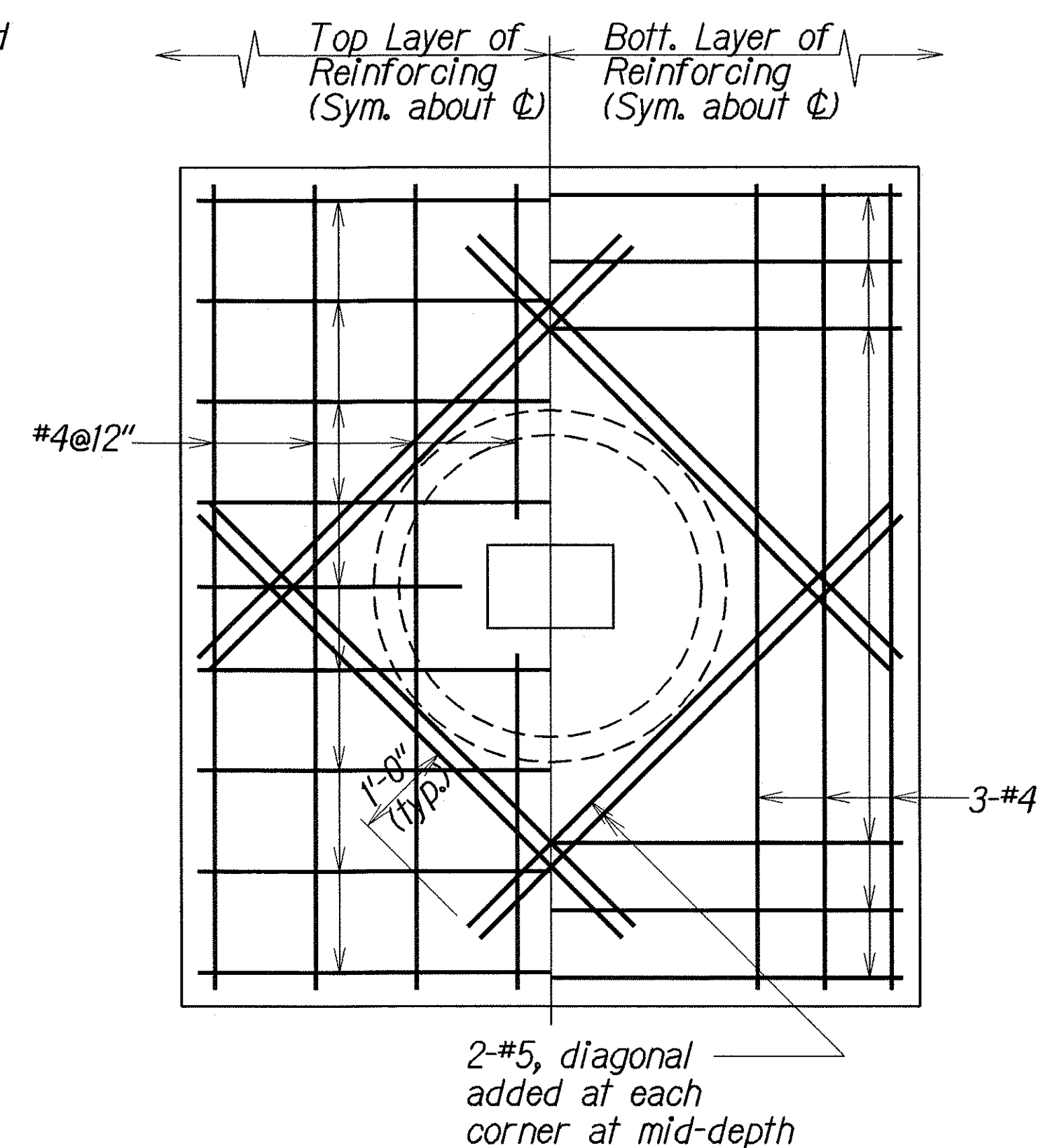
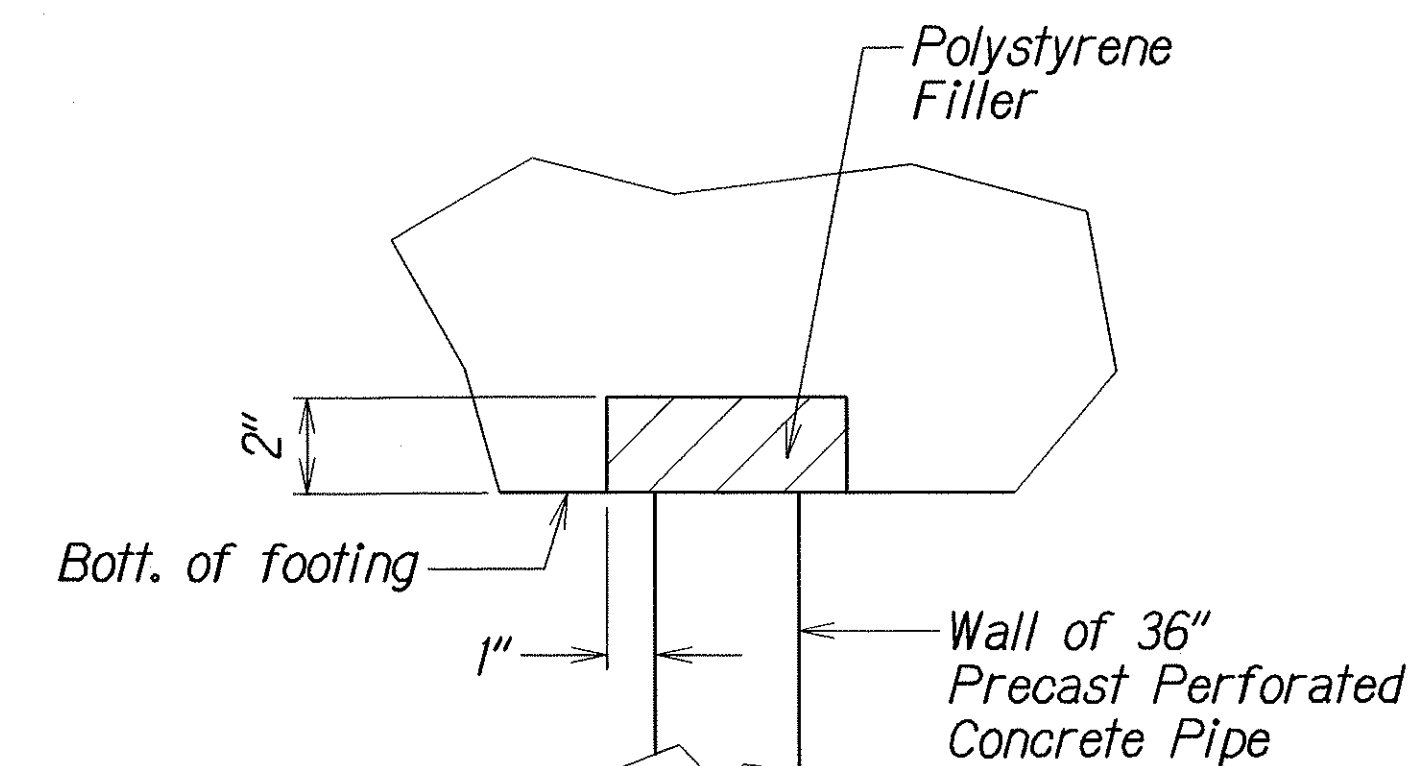
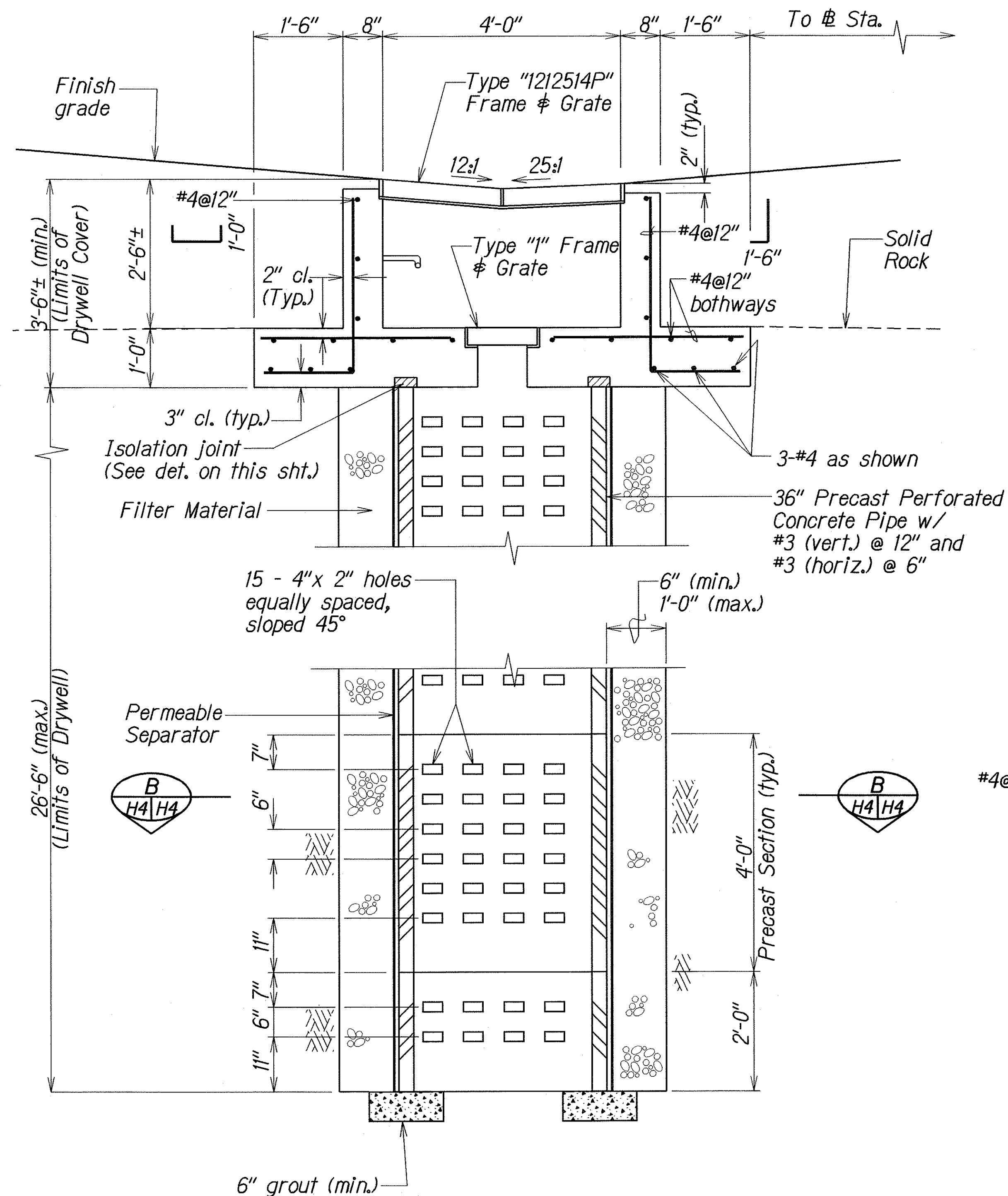
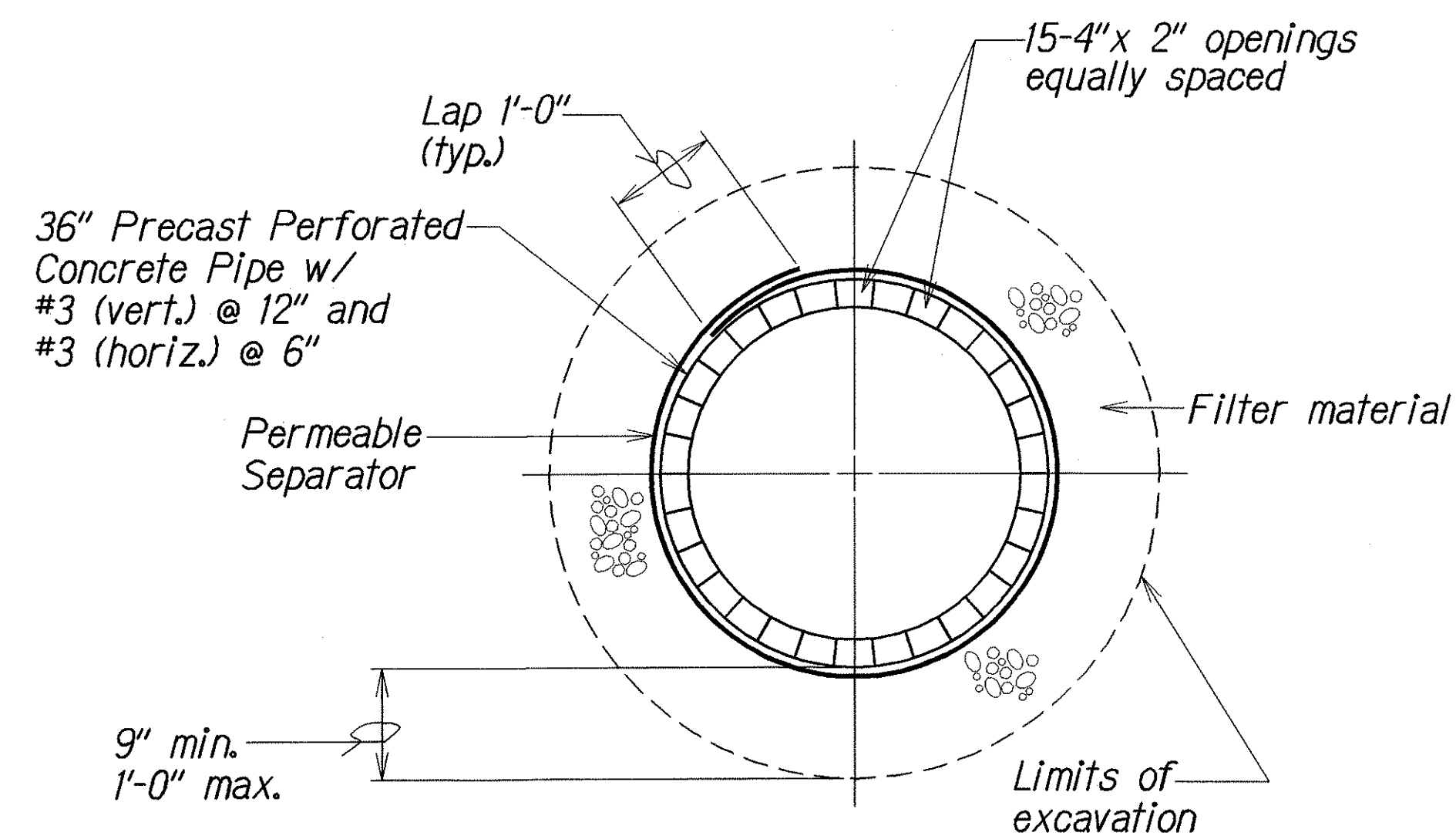
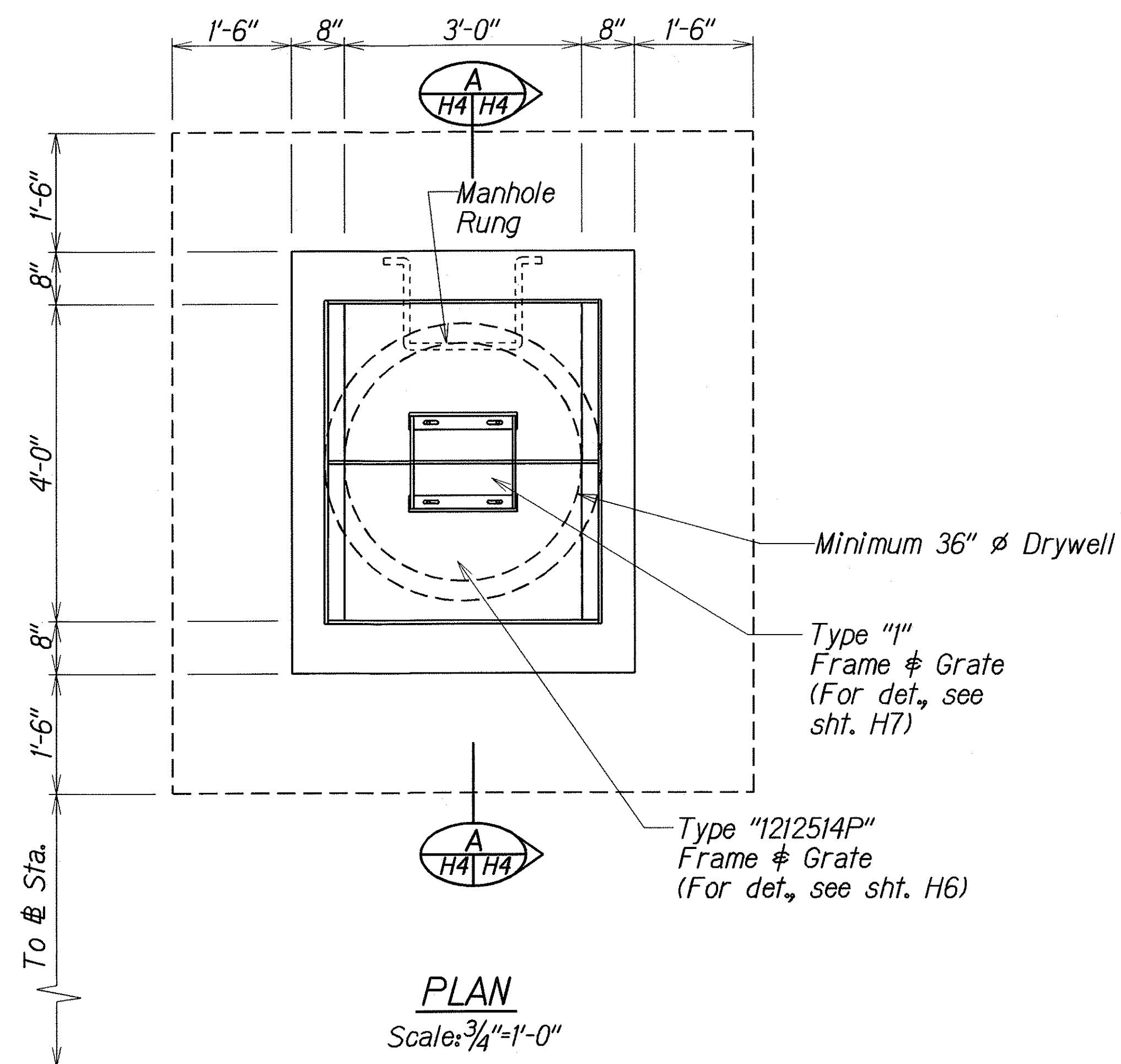
PLAN VIEW OF BOTTOM SLAB REINFORCING



TYPICAL DETAILS OF PAVEMENT RESTORATION

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
<u>DRAINAGE DETAIL</u>
<u>MAMALAHOA HIGHWAY</u>
<u>Miscellaneous Drainage Improvements</u>
<u>Vicinity of Hookena</u>
<u>Project No.: 11BC-02-01</u>
Scale: 3/4" = 1'-0" Date: Feb, 2002
SHEET No. H3 OF 7 SHEETS

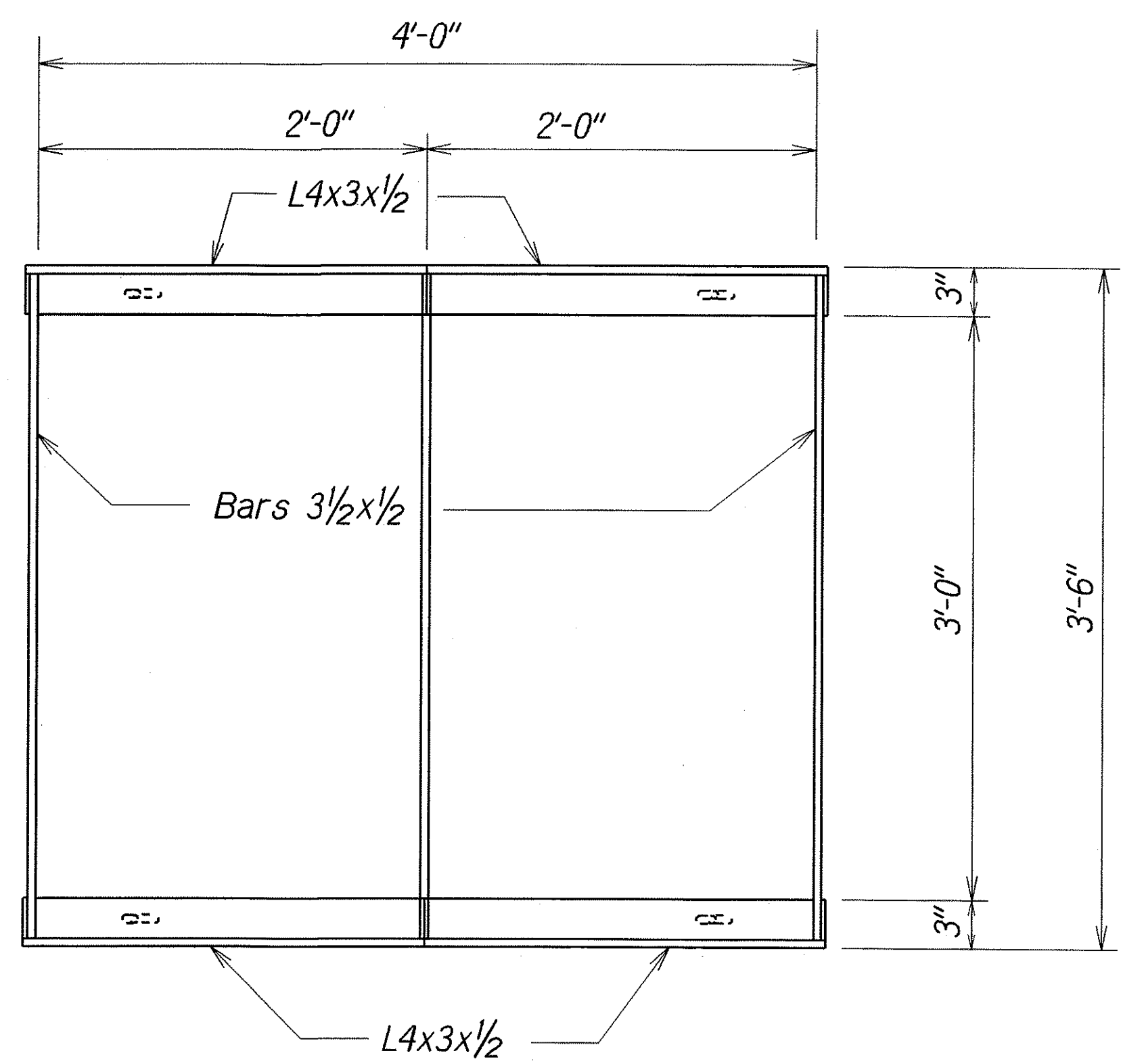
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11BC-02-01	2003	10	13



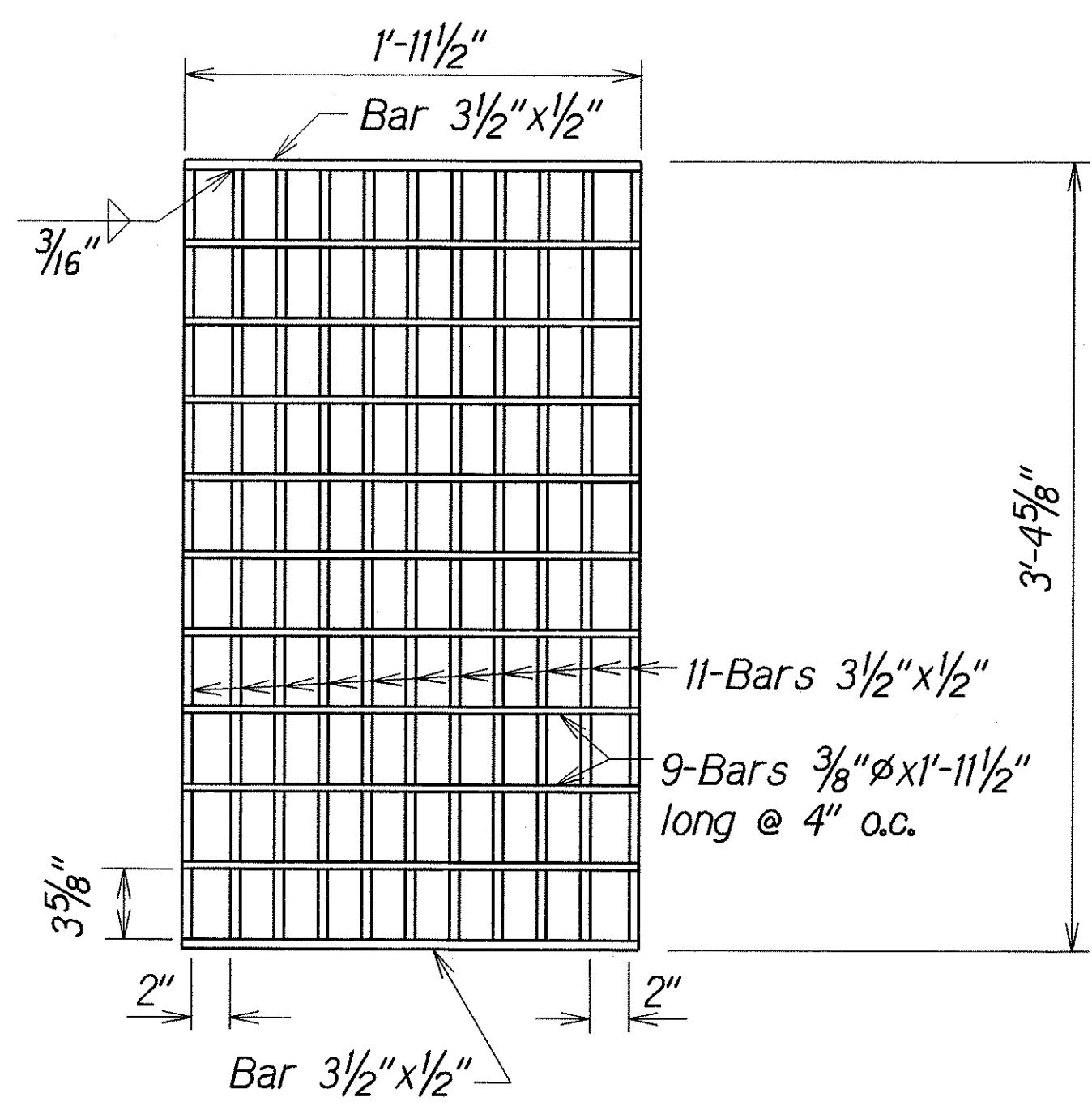
TYPICAL DETAILS OF TYPE "2" DRYWELL COVER AND DRYWELL AT & STA. 484+81± LT.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DRAINAGE DETAIL
MAMALAHOA HIGHWAY
Miscellaneous Drainage Improvements
Vicinity of Hookena
Project No.: 11BC-02-01
Scale: As shown Date: Feb, 2001
SHEET No. H4 OF 7 SHEETS

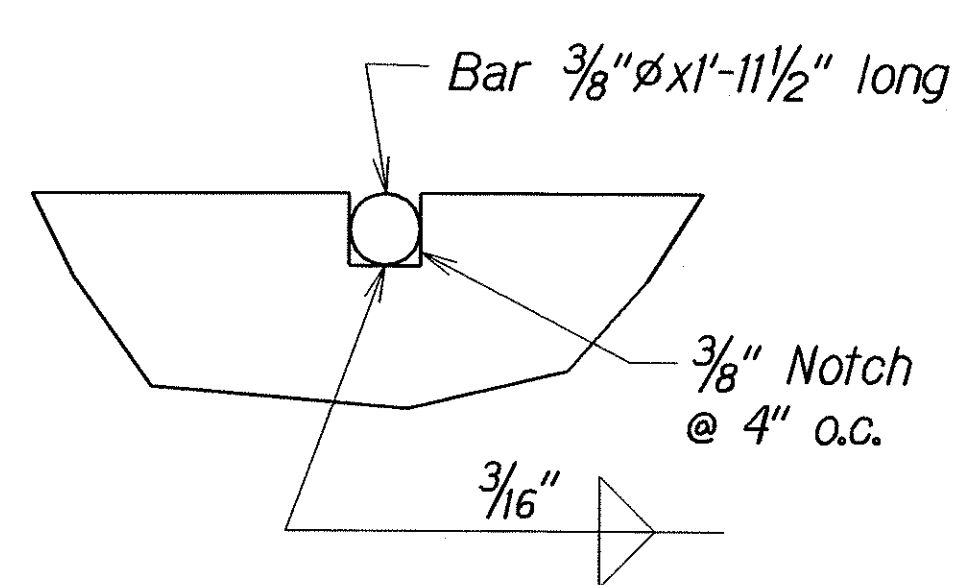
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11BC-02-01	2003	11	13



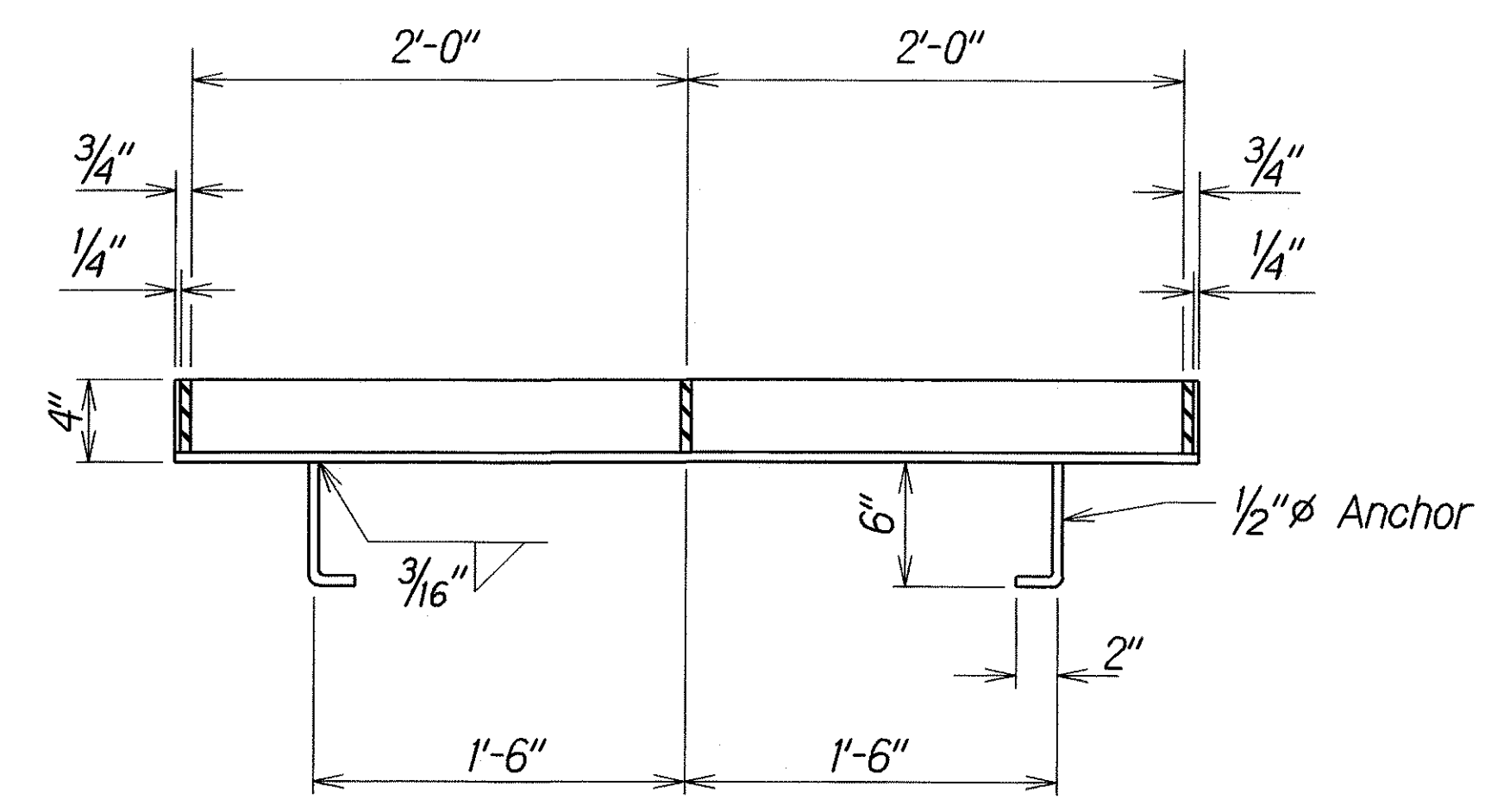
PLAN



PLAN



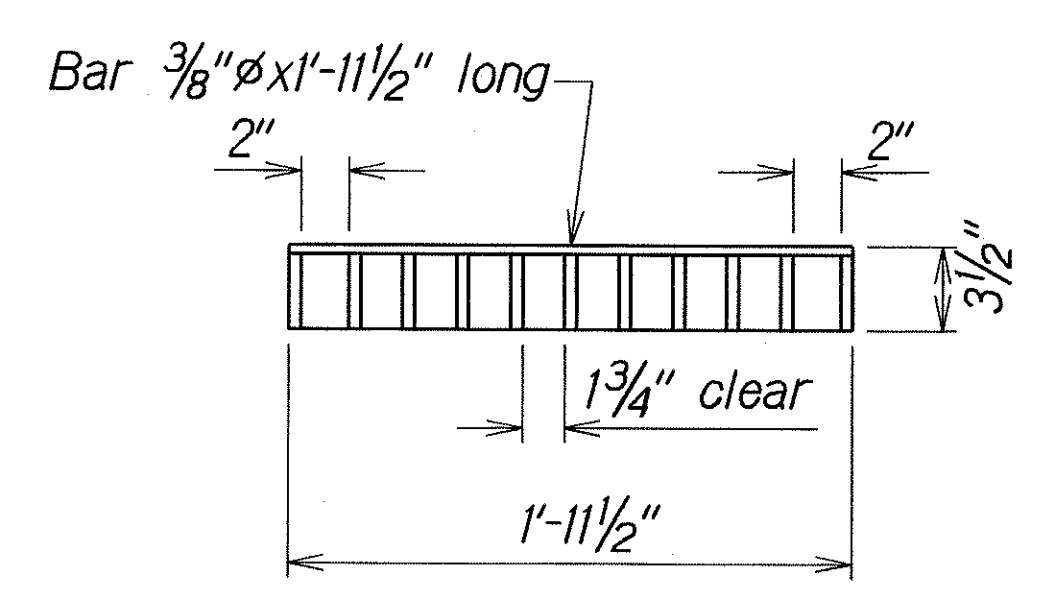
NOTCH DETAIL
Full Size



SECTION

FRAME

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



SECTION

GRATE

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

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

TYPICAL DETAILS OF TYPE "01014P" STEEL FRAME AND GRATES

ORIGINAL	SURVEY	PLANNED BY	DATE
PLAN	DRAWN BY	1/27/06	
NOTE	DESIGNED BY		
BOOK	CHECKED BY		
03/25/06			
04/27/06			

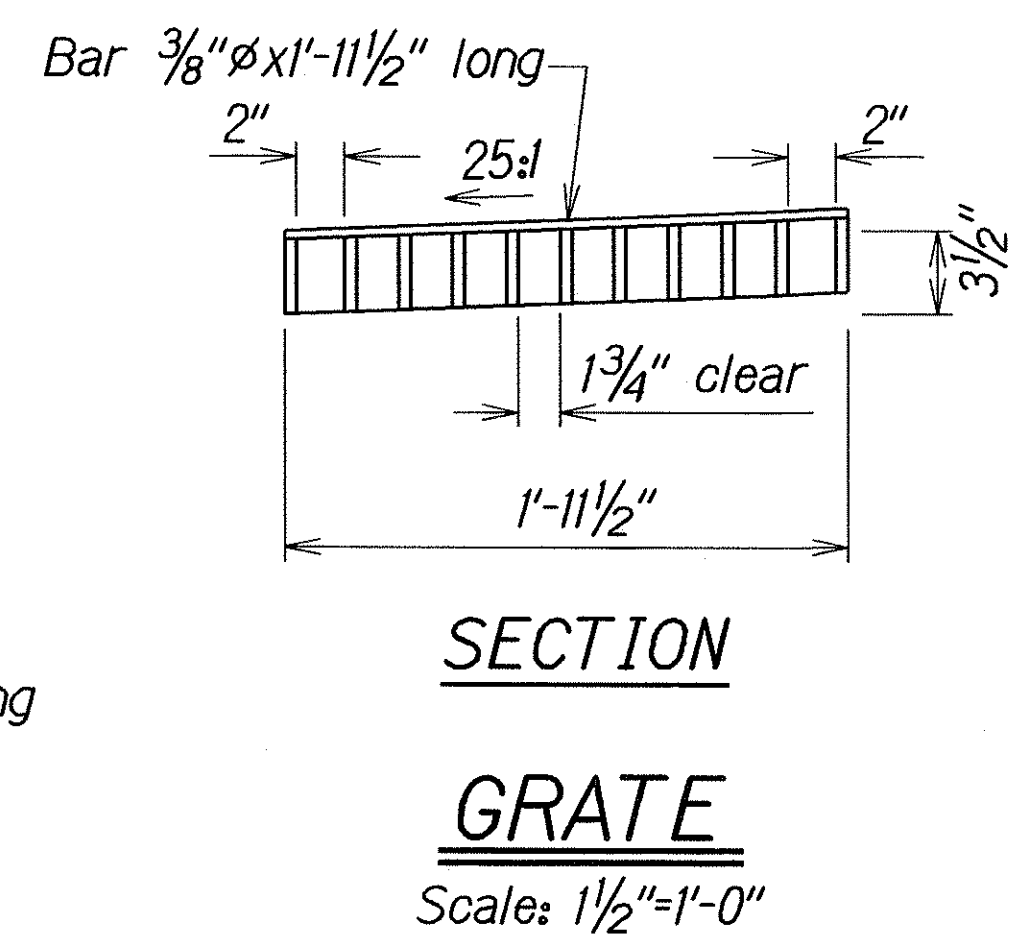
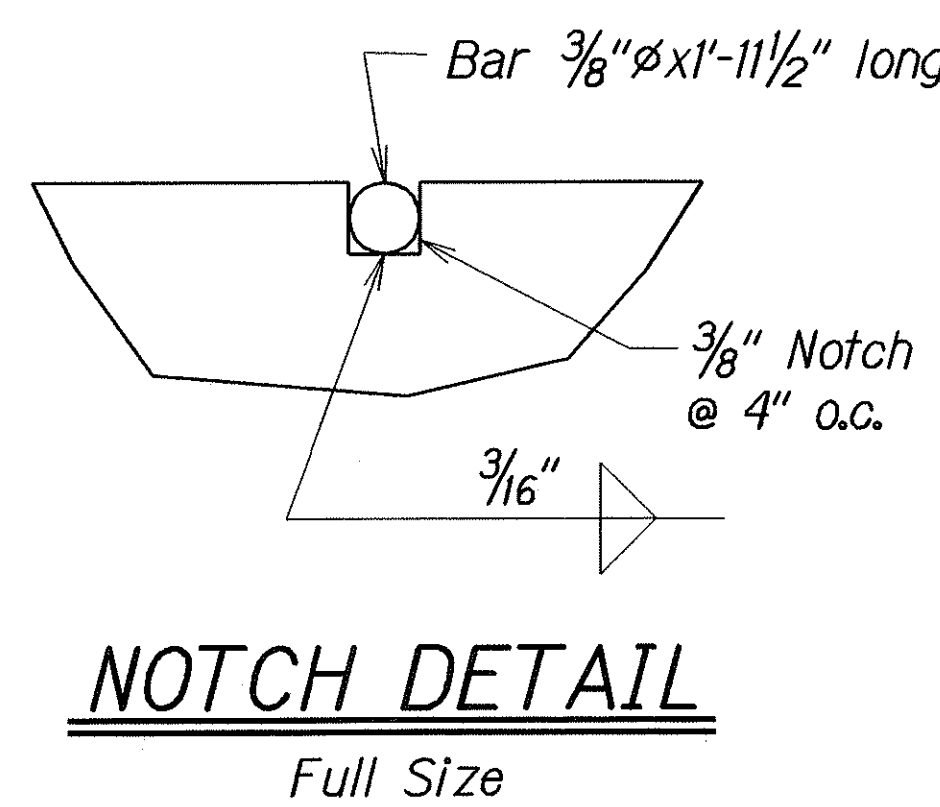
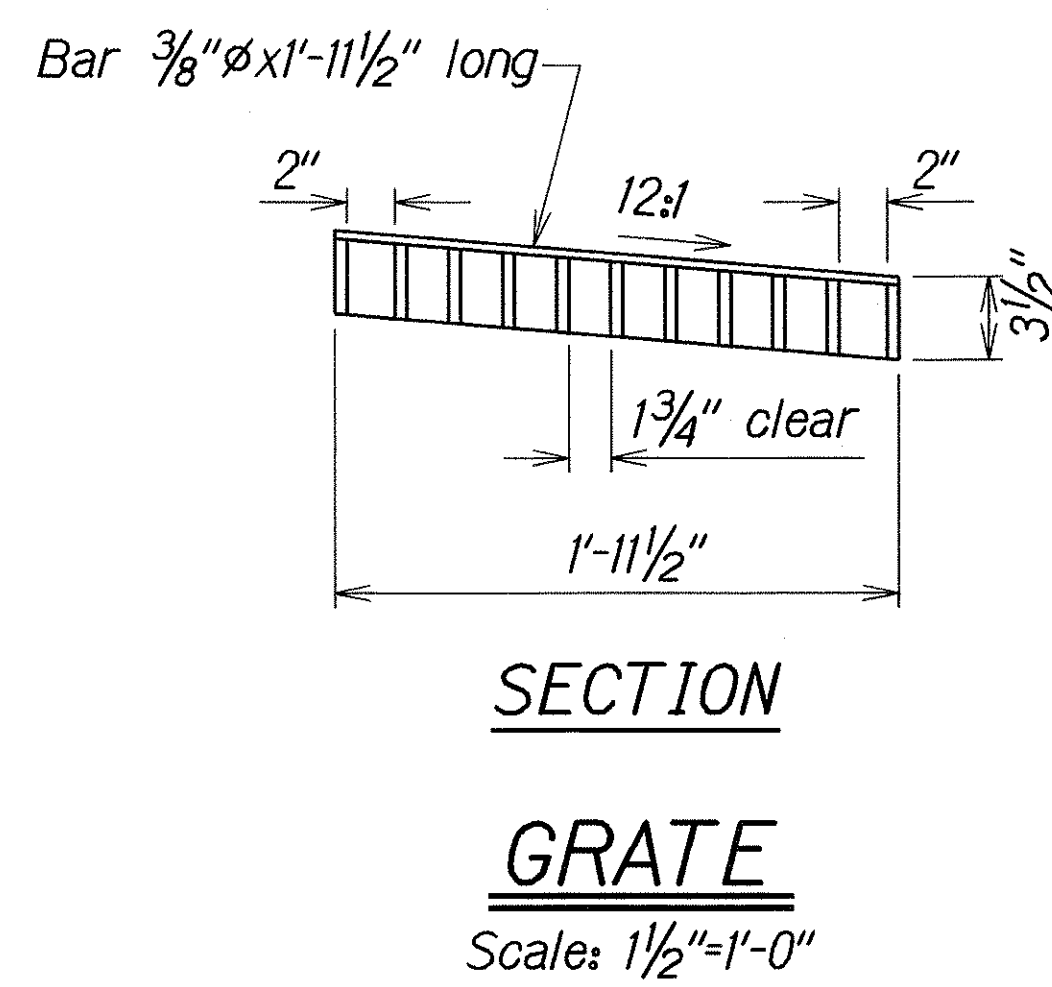
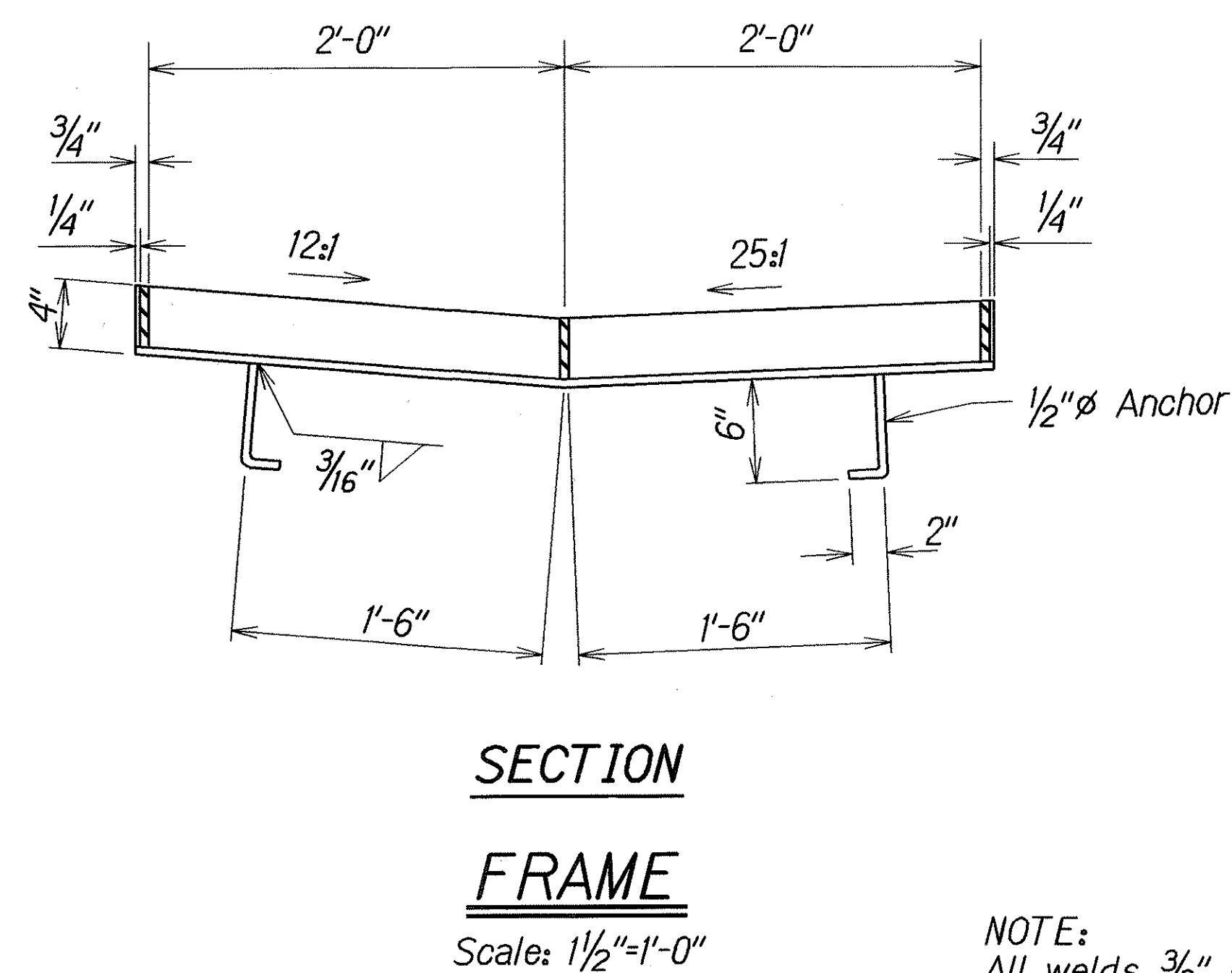
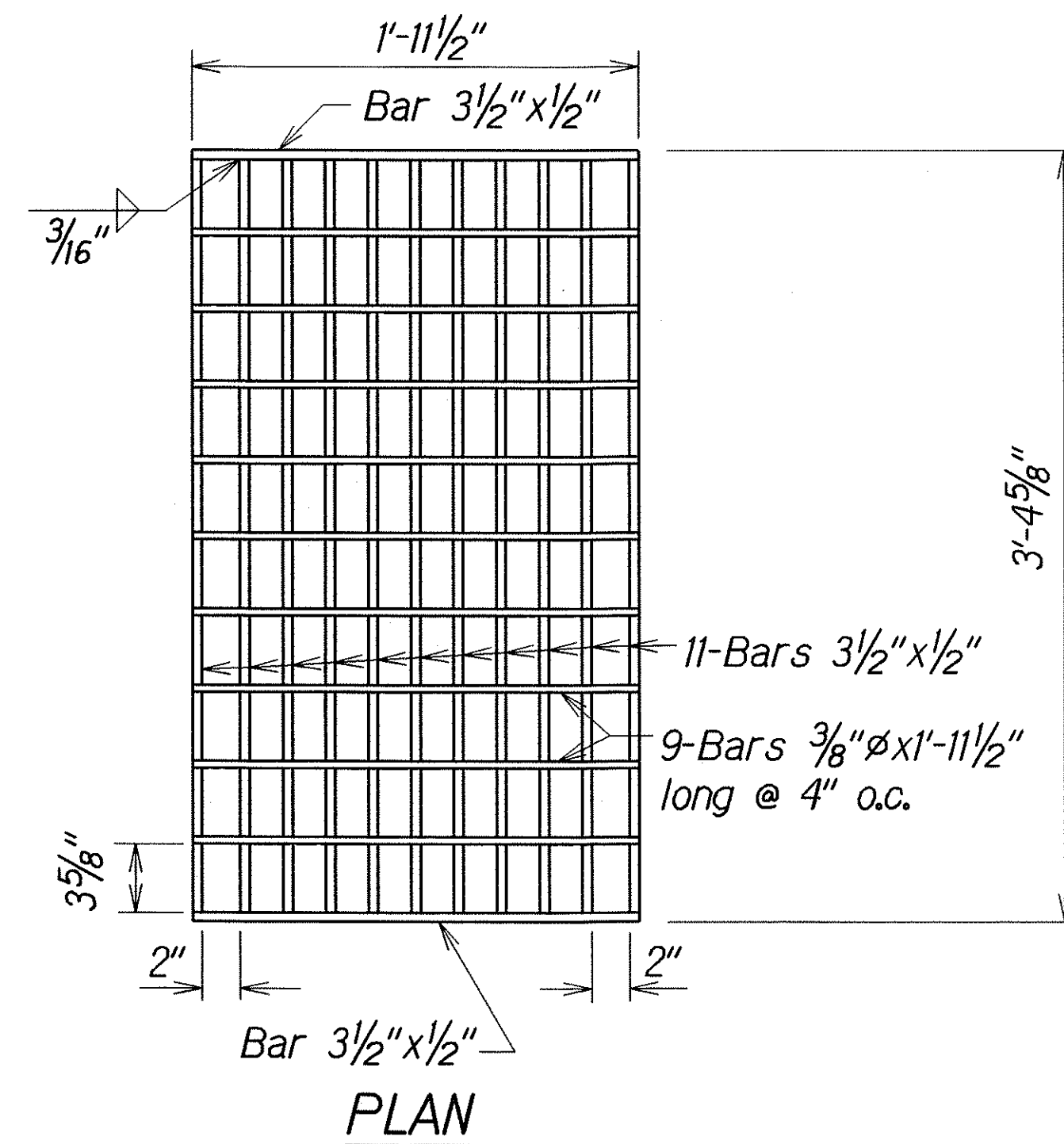
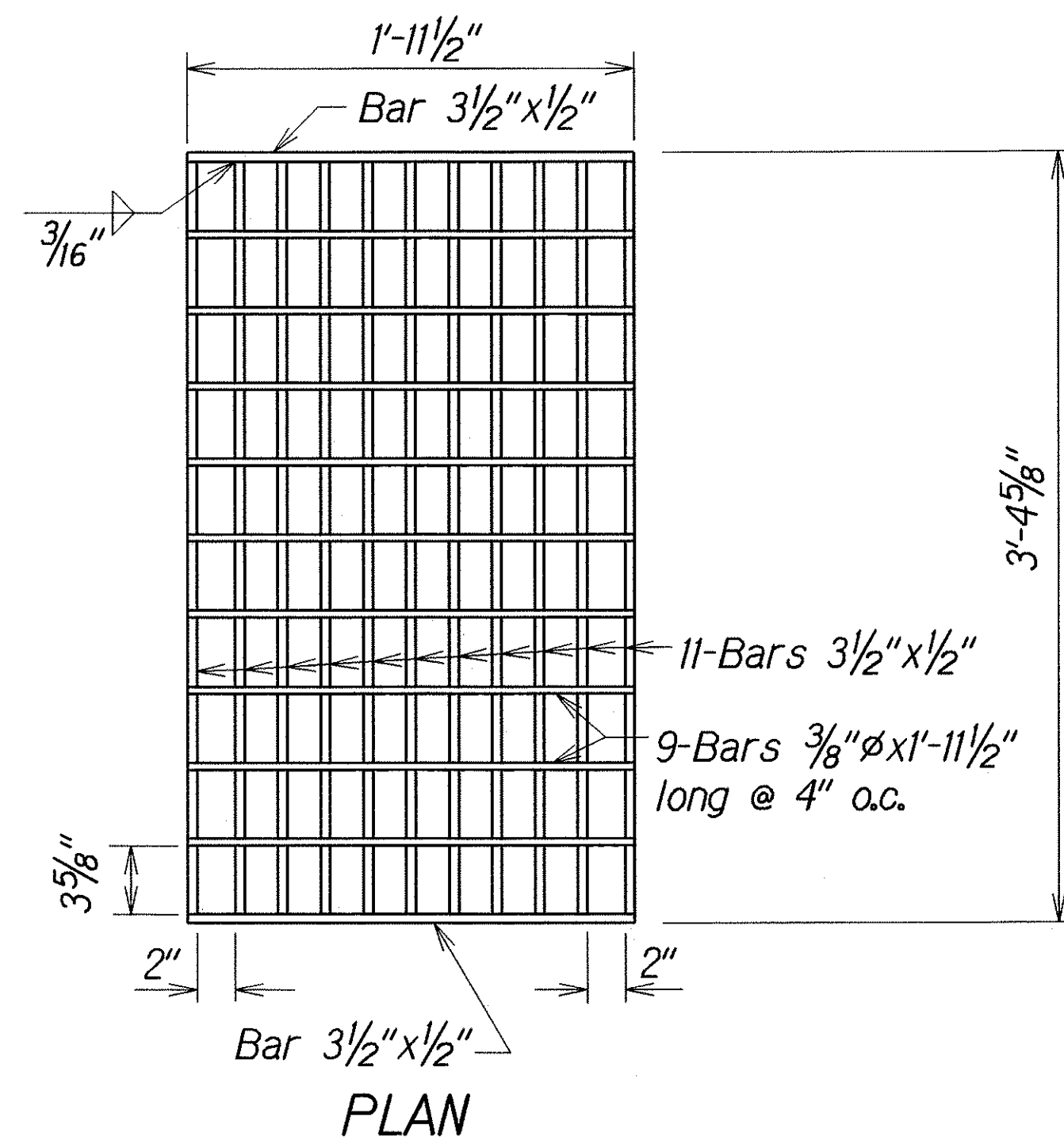
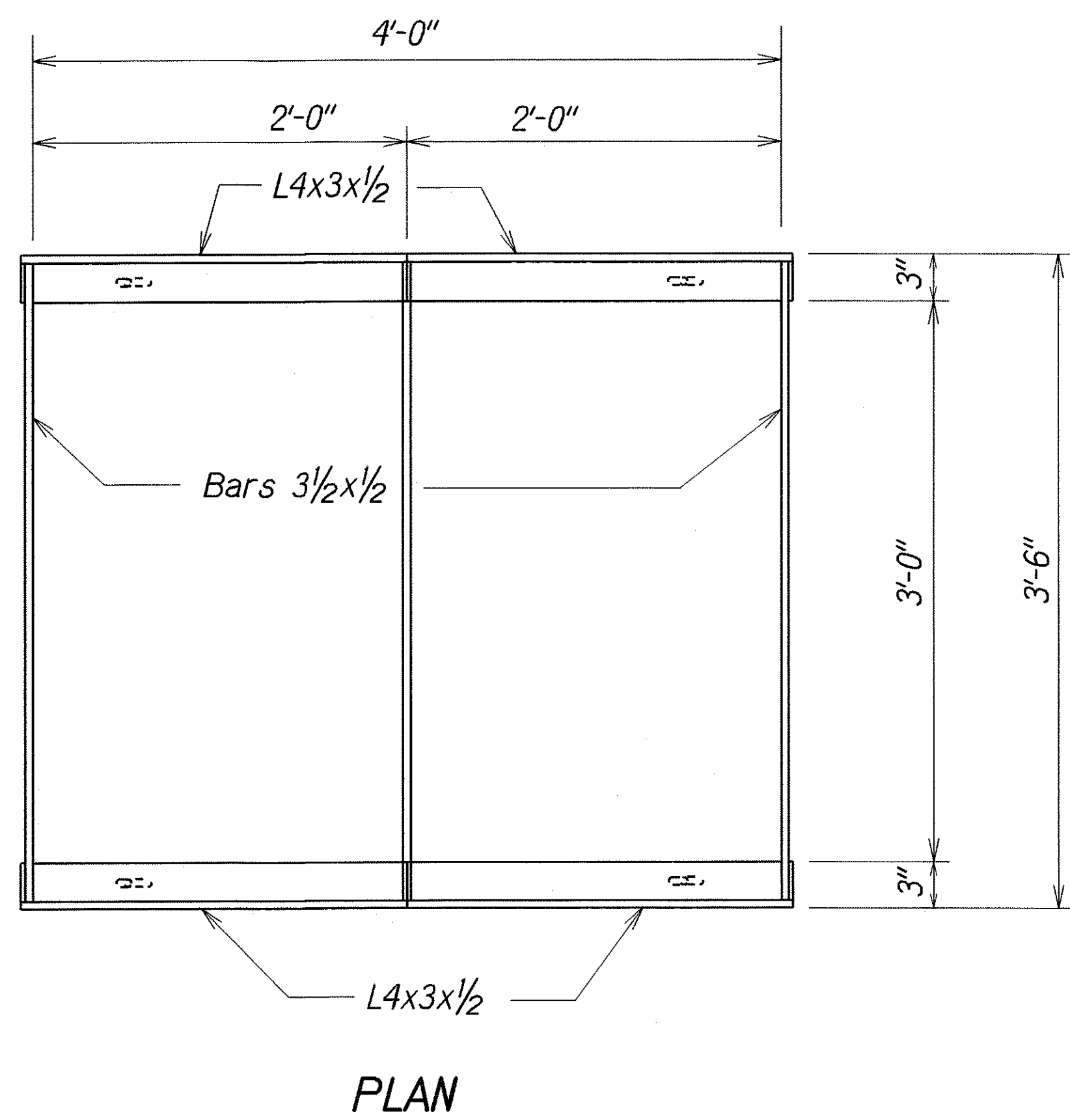
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAIL
MAMALAHOA HIGHWAY
Miscellaneous Drainage Improvements
Vicinity of Hookena
Project No.: 11BC-02-01

Scale: As shown Date: Feb. 2002

SHEET No. H5 OF 7 SHEETS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11BC-02-01	2003	12	13



TYPICAL DETAILS OF TYPE "1212514P" STEEL FRAME AND GRATES

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

DRAINAGE DETAIL

MAMALAHOA HIGHWAY

Miscellaneous Drainage Improvements

Vicinity of Hookena

Project No.: 11BC-02-01

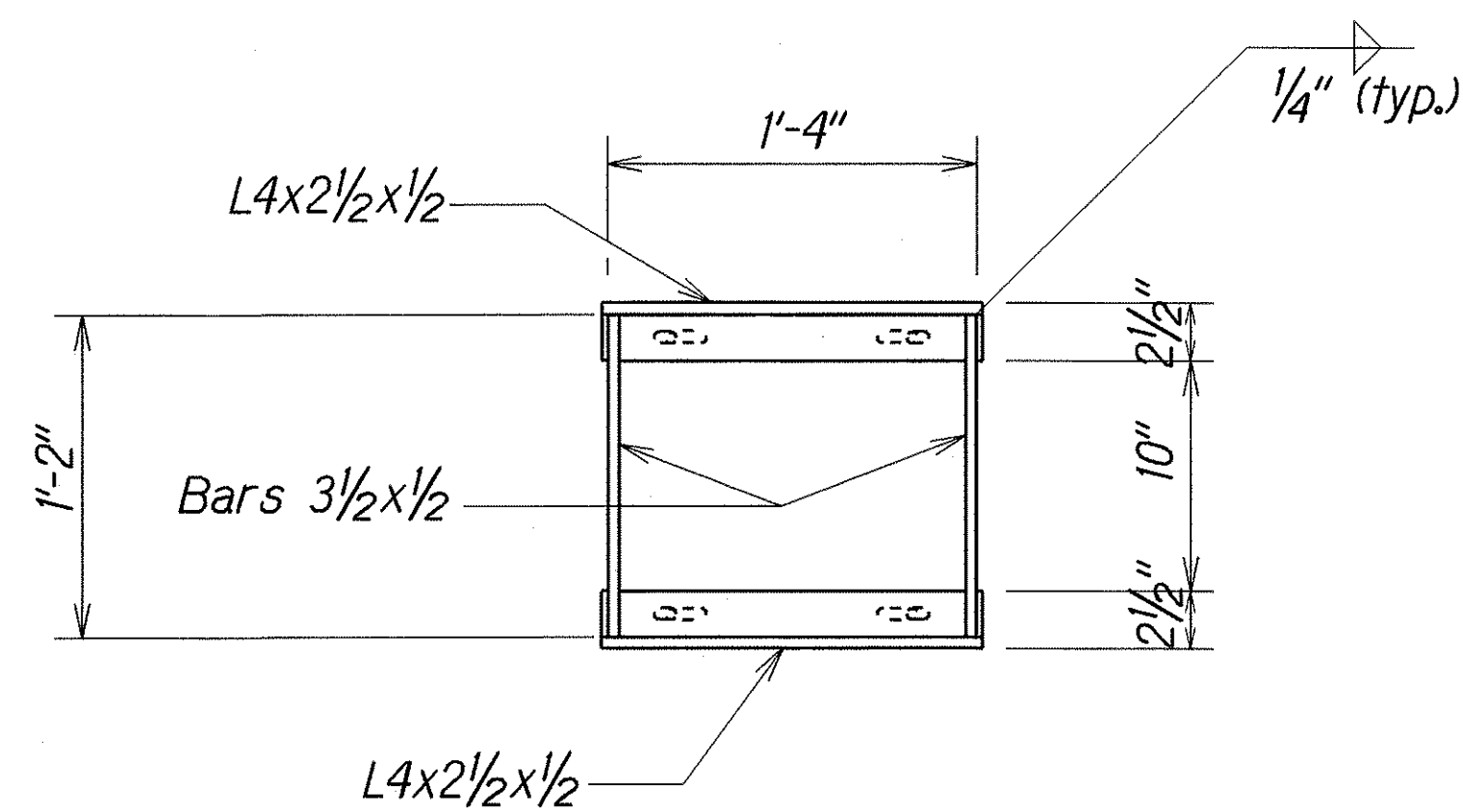
Scale: As shown

Date: Feb. 2002

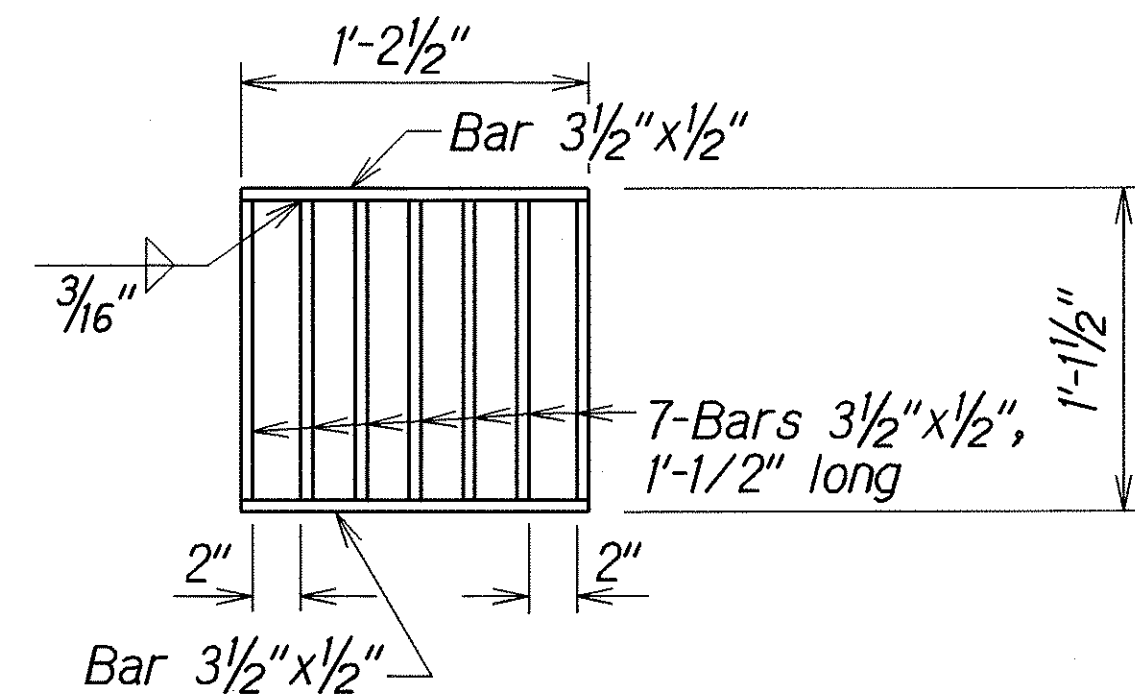
SHEET No. H6 OF 7 SHEETS

12

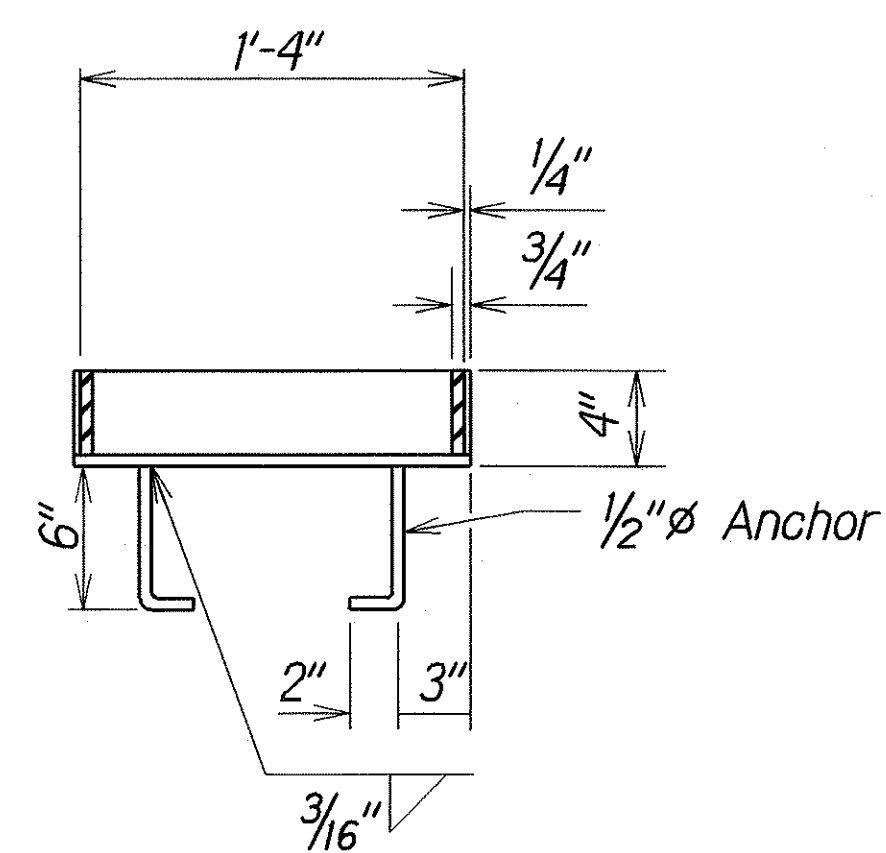
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	11BC-02-01	2003	13	13



PLAN



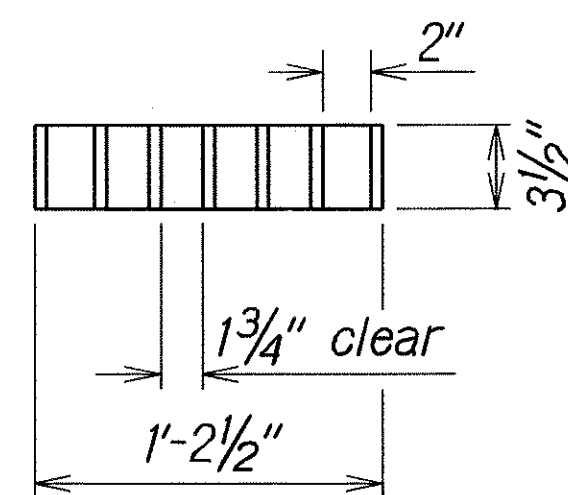
PLAN



SECTION

FRAME

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



SECTION

GRATE

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

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

TYPICAL DETAILS OF TYPE "I" STEEL FRAME AND GRATES

ORIGINAL PLAN	SURVEY PLANNED BY	DATE
DESIGNED BY	DESIGNED BY	DATE
CHECKED BY	CHECKED BY	DATE
APPROVED BY	APPROVED BY	DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAIL

MAMALAHOA HIGHWAY

Miscellaneous Drainage Improvements

Vicinity of Hookena

Project No.: 11BC-02-01

Scale: 1 1/2"=1'-0" Date: Feb. 2002

SHEET No. H7 OF 7 SHEETS