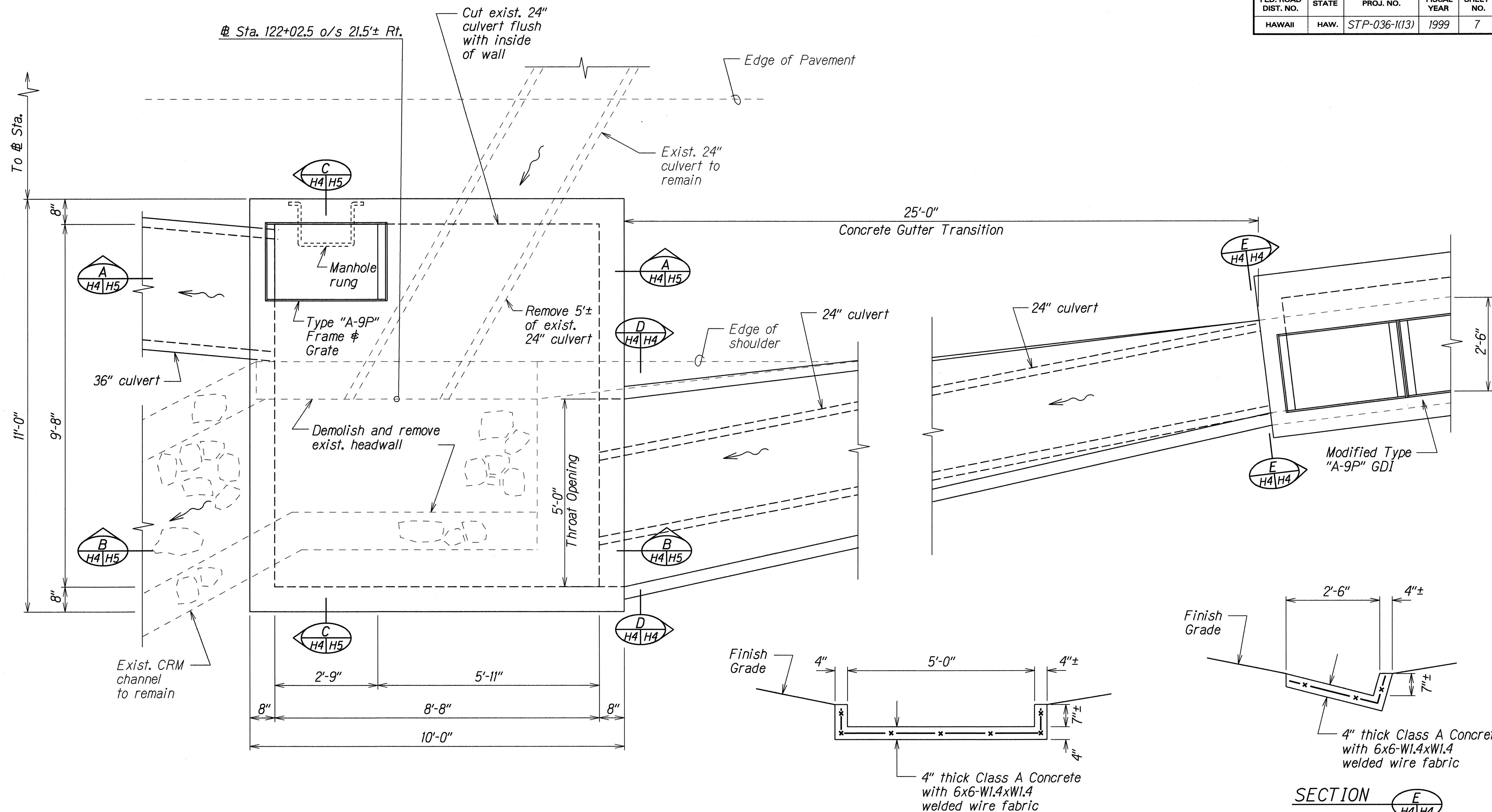


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-036-1(13)	1999	7	16



DETAILS OF MODIFIED TYPE "D" CATCH BASIN AT STA. 122+02.5 o/s 21.5± RT.

ORIGINAL PLAN	DATE	DESIGNED BY	CHECKED BY
NOTED			
QUANTITIES BY			
CHECKED BY			

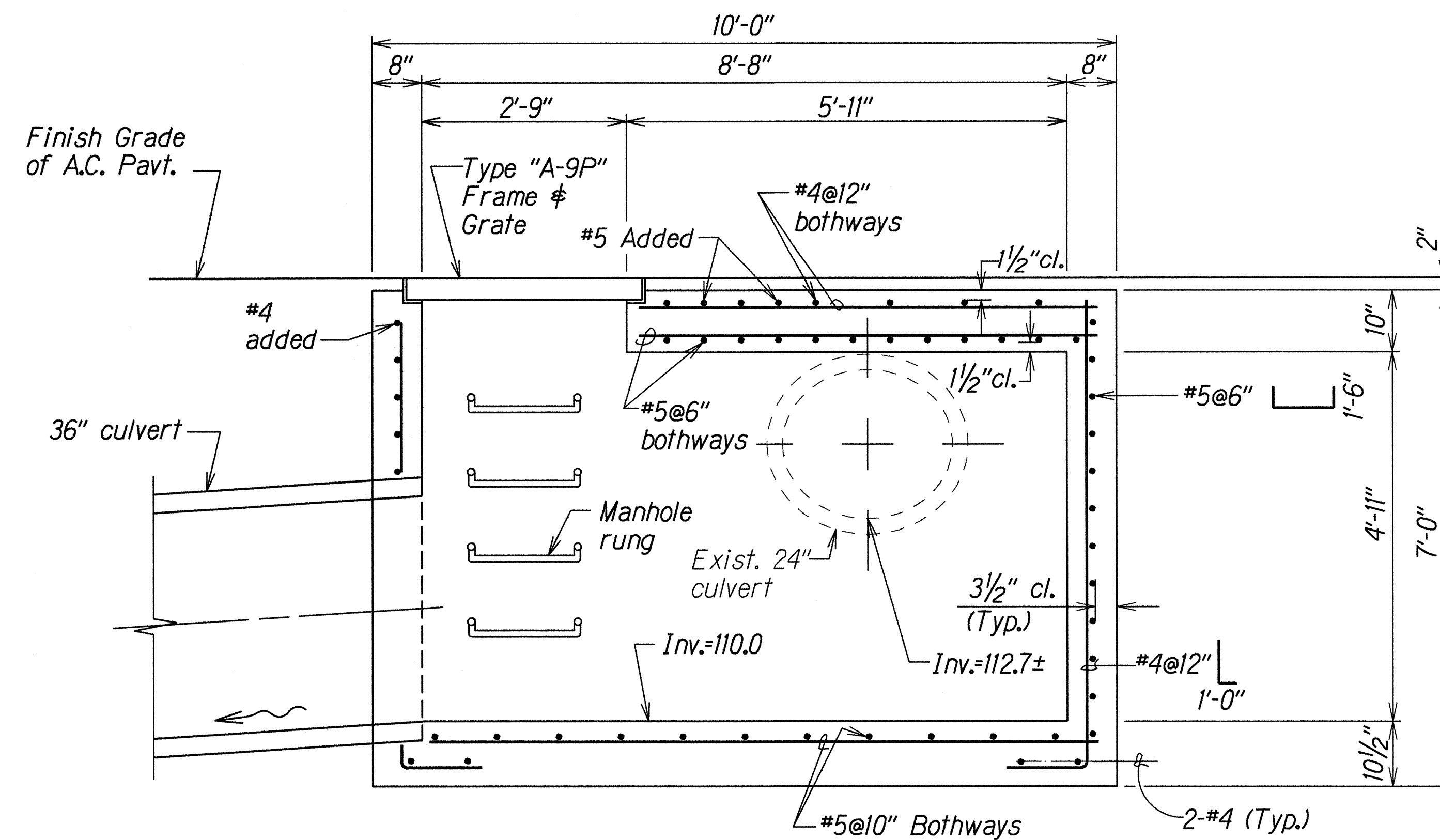
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS
HANA HIGHWAY
DRAINAGE IMPROVEMENTS

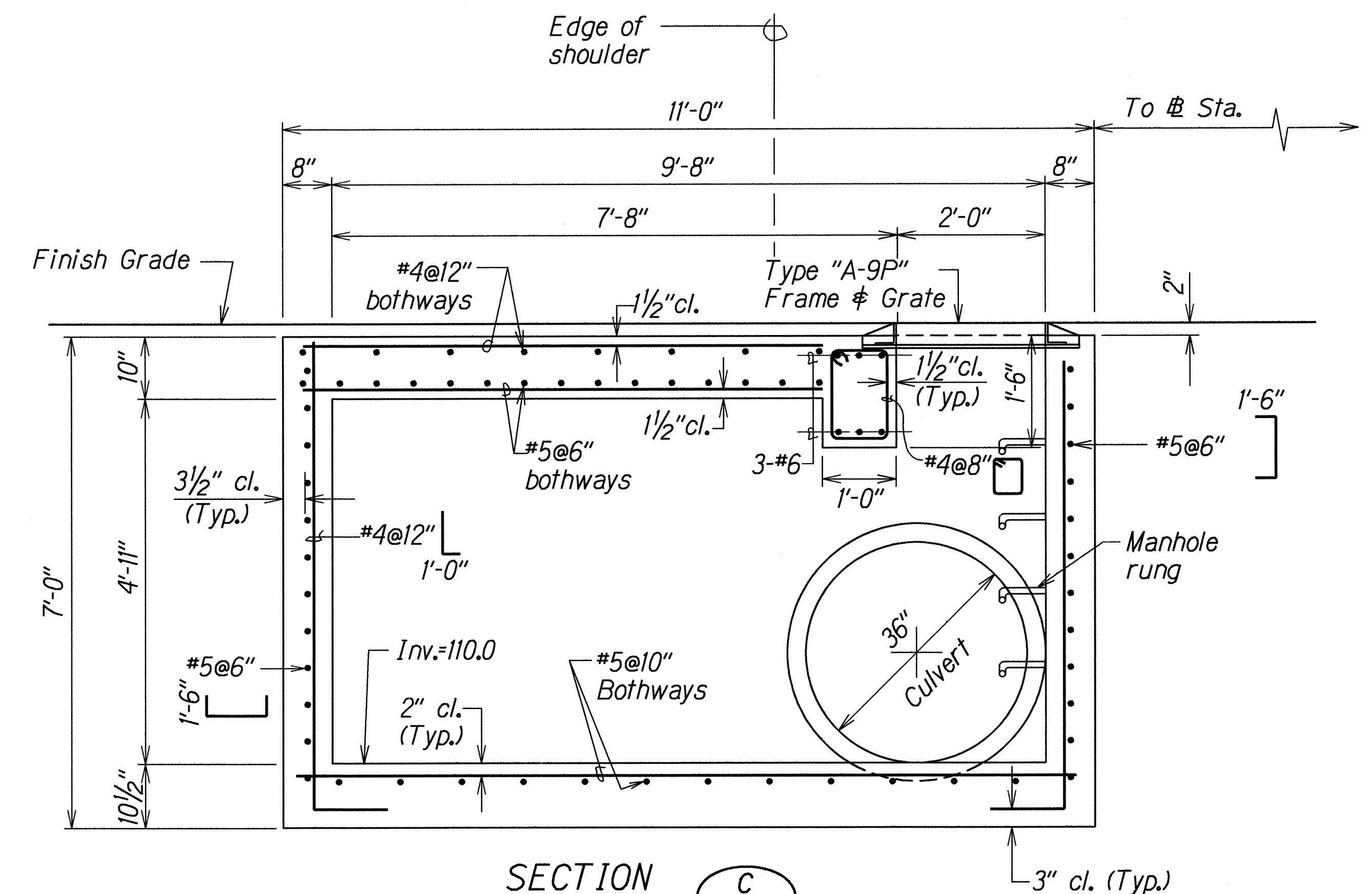
WEST KUIAHA ROAD TO VALLEY ISLE MEMORIAL PARK
Federal Aid Project No. STP-036-1(13)
Scale: 3/4" = 1'-0" Date: AUGUST, 1998

SHEET No. H4 OF 12 SHEETS

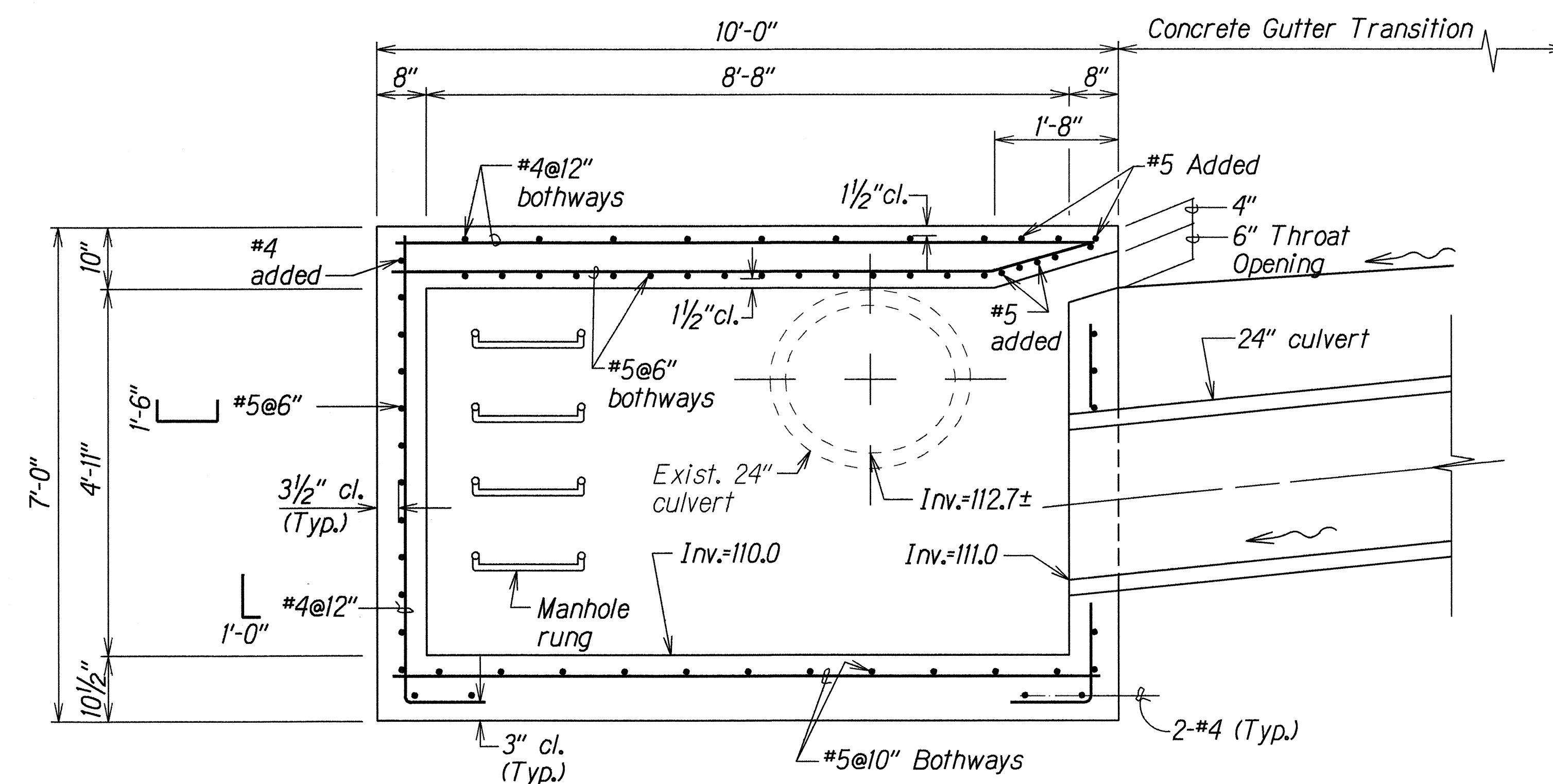
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-036-1(13)	1999	8	16



SECTION A
H4/H5



SECTION C
H4/H5



SECTION B
H4/H5

DETAILS OF MODIFIED TYPE "D" CATCH BASIN AT STA. 122+02.5 o/s 21.5'± RT.

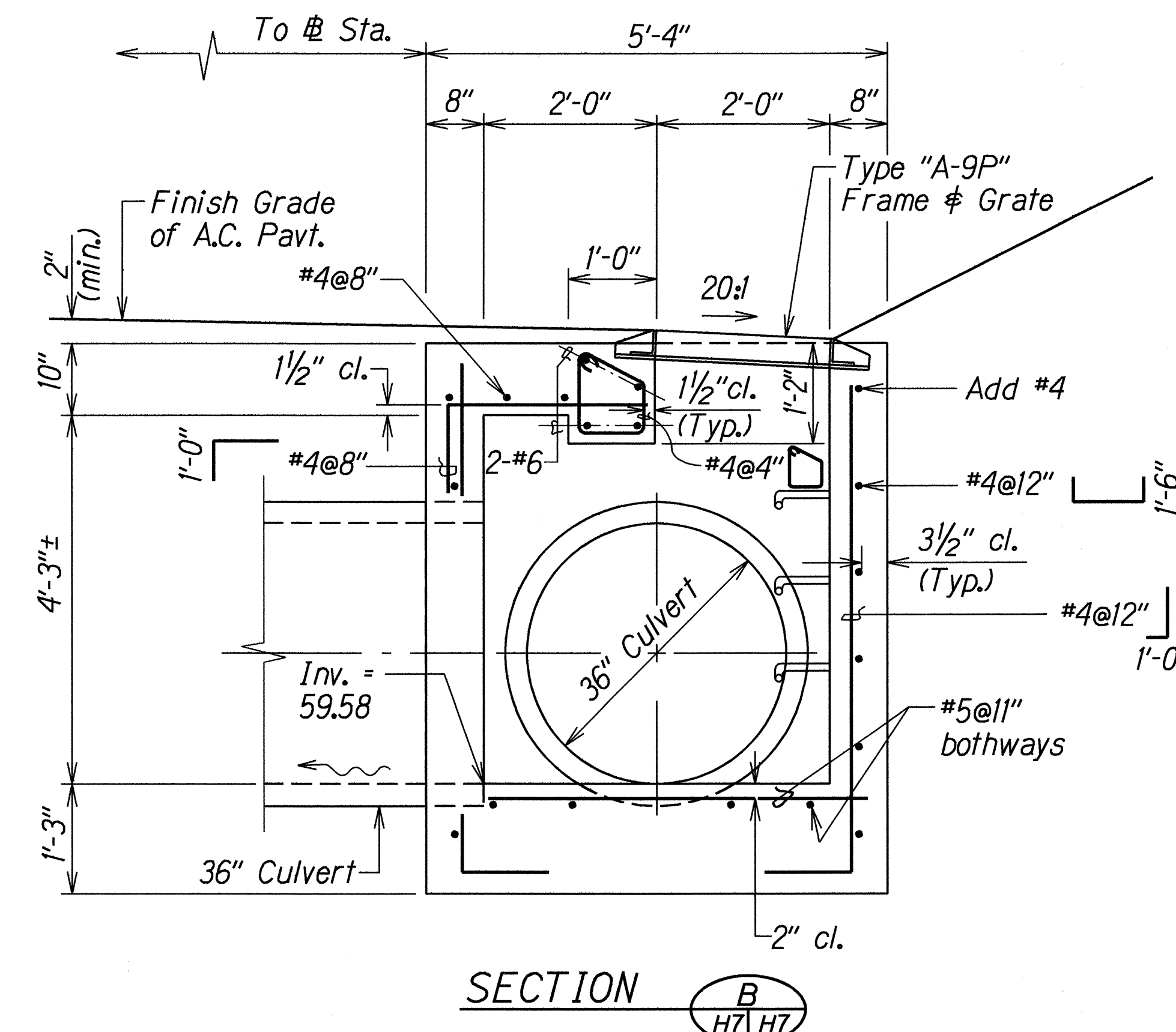
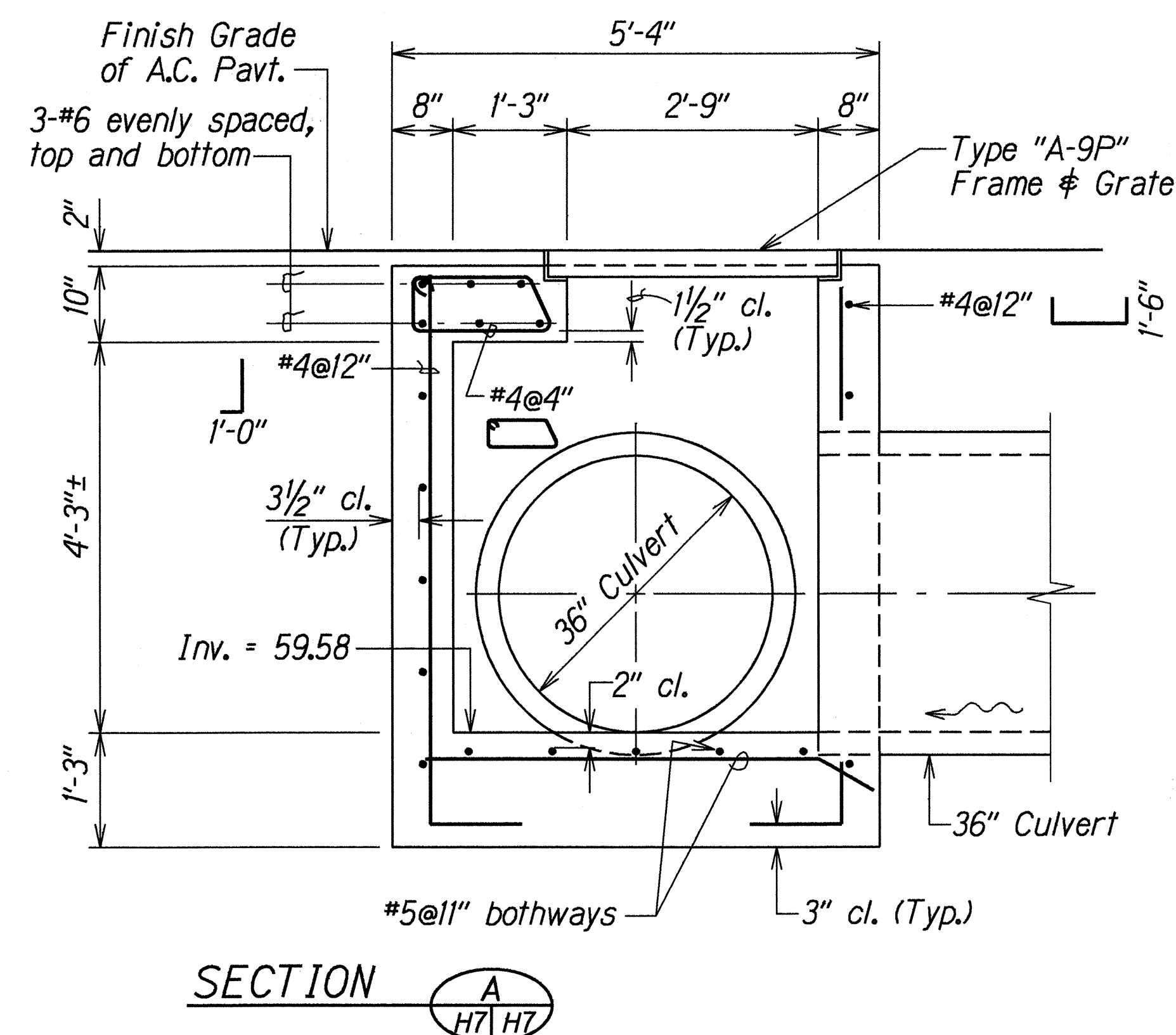
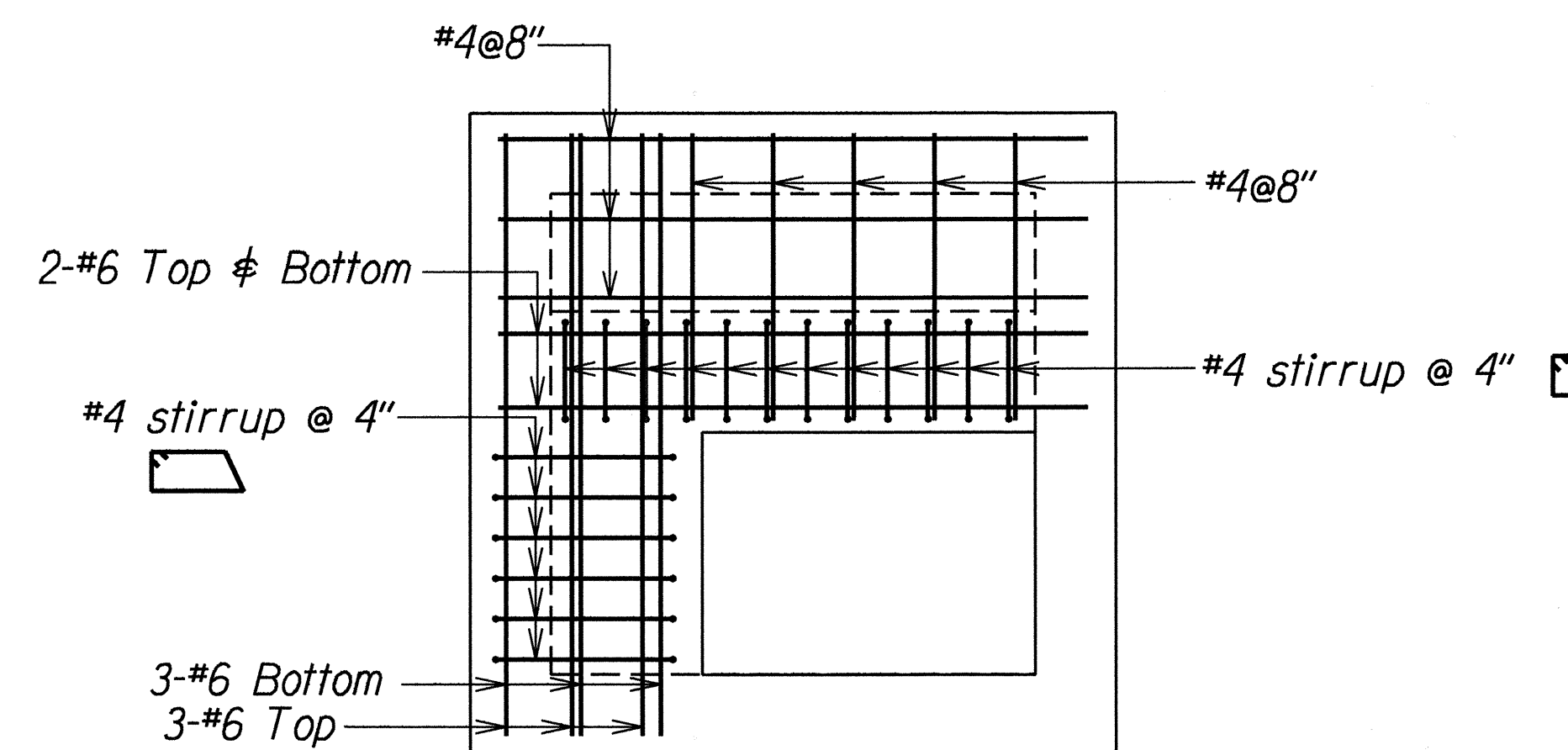
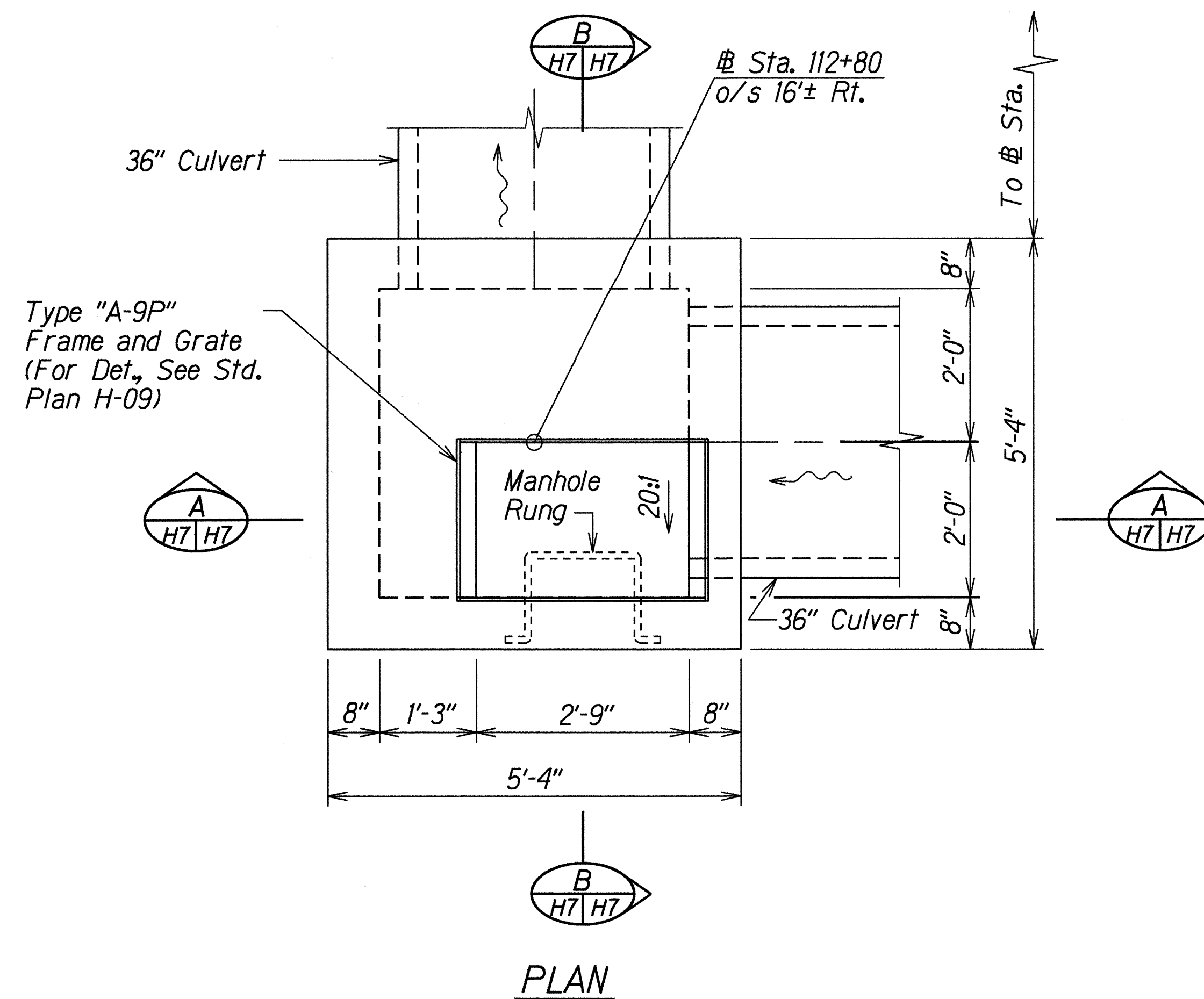
ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS
HANA HIGHWAY
DRAINAGE IMPROVEMENTS
WEST KUIAHA ROAD TO VALLEY ISLE MEMORIAL PARK
Federal Aid Project No. STP-036-1(13)
Scale: 3/4" = 1'-0" Date: AUGUST, 1998

SHEET No. H5 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-036-1(13)	1999	10	16



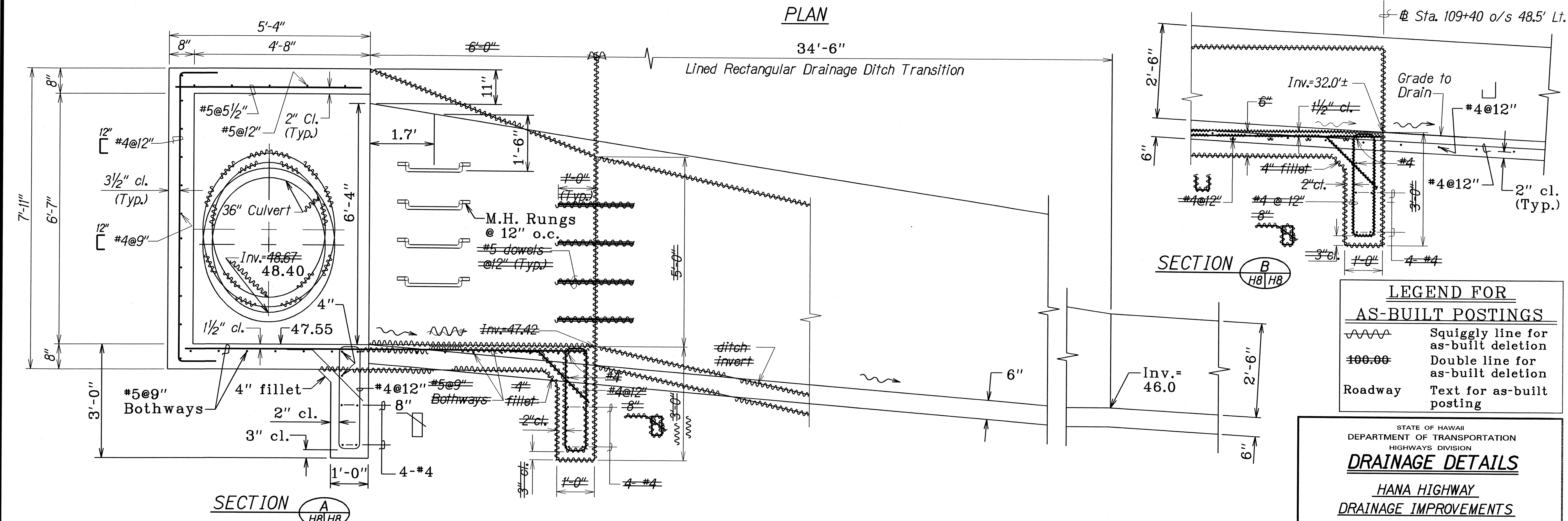
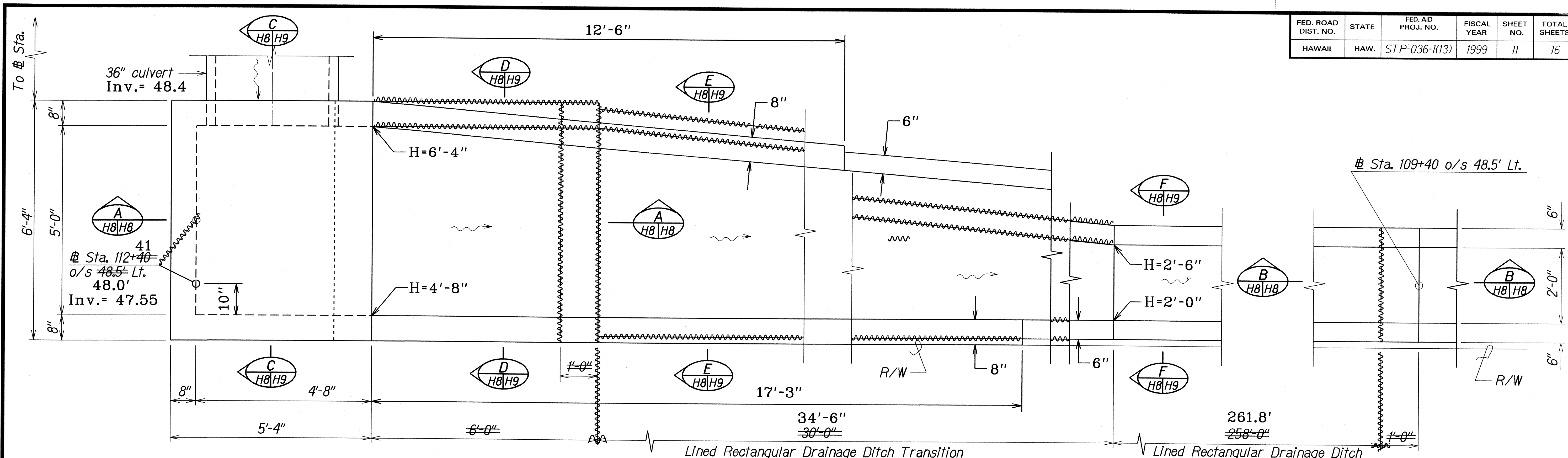
**DETAILS OF TYPE "A-9P" GRATED DROP INLET
AT # STA. 112+80 o/s 16'± RT.**

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS
HANA HIGHWAY
DRAINAGE IMPROVEMENTS
WEST KUIAHA ROAD TO VALLEY ISLE MEMORIAL PARK
Federal Aid Project No. STP-036-1(13)
Scale: 3/4" = 1'-0" Date: AUGUST, 1998

SHEET No. H7 OF 12 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-036-1(13)	1999	11	16



DETAILS OF TYPE "1" STORM DRAIN MANHOLE AND LINED RECTANGULAR DRAINAGE DITCH

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

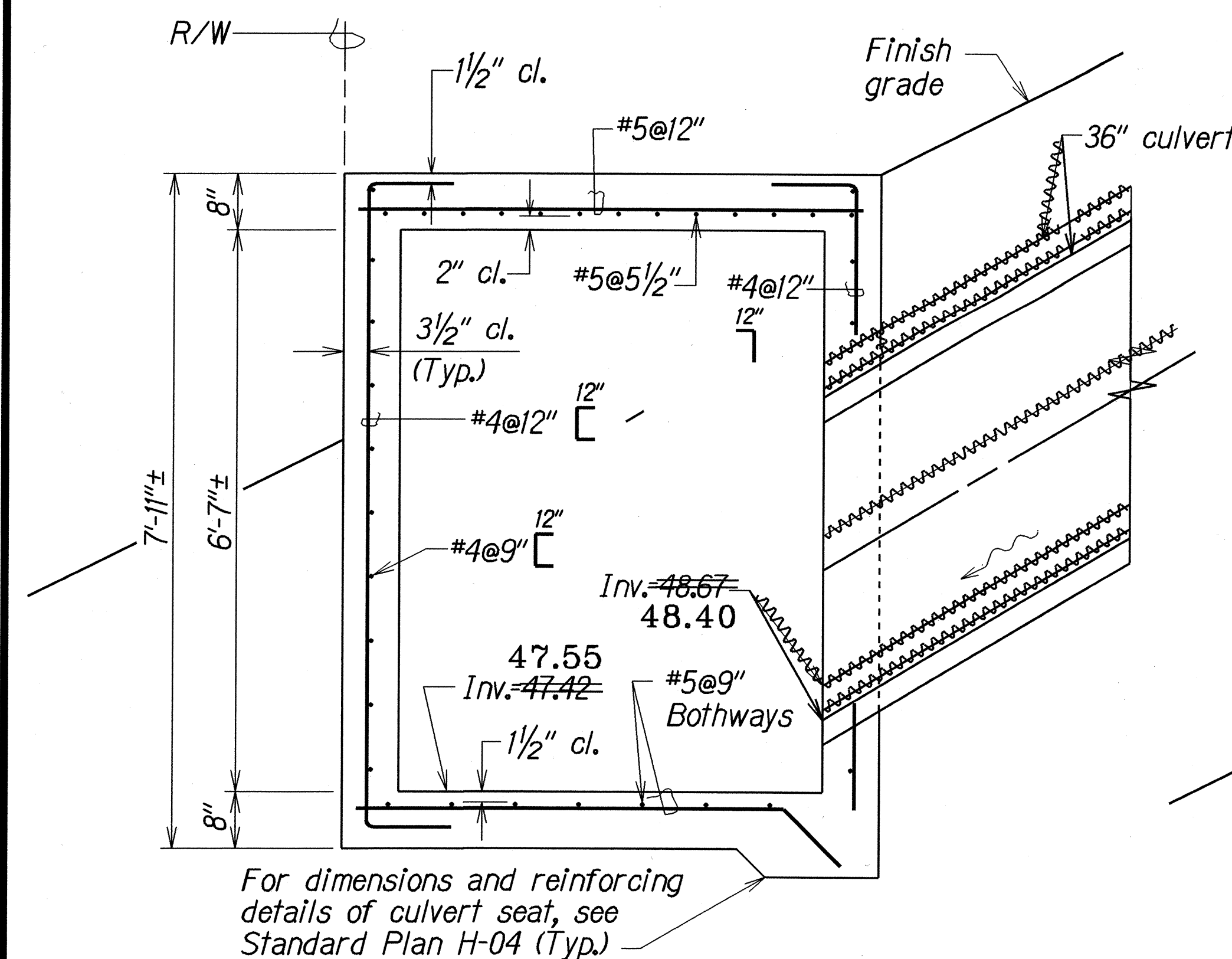
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS

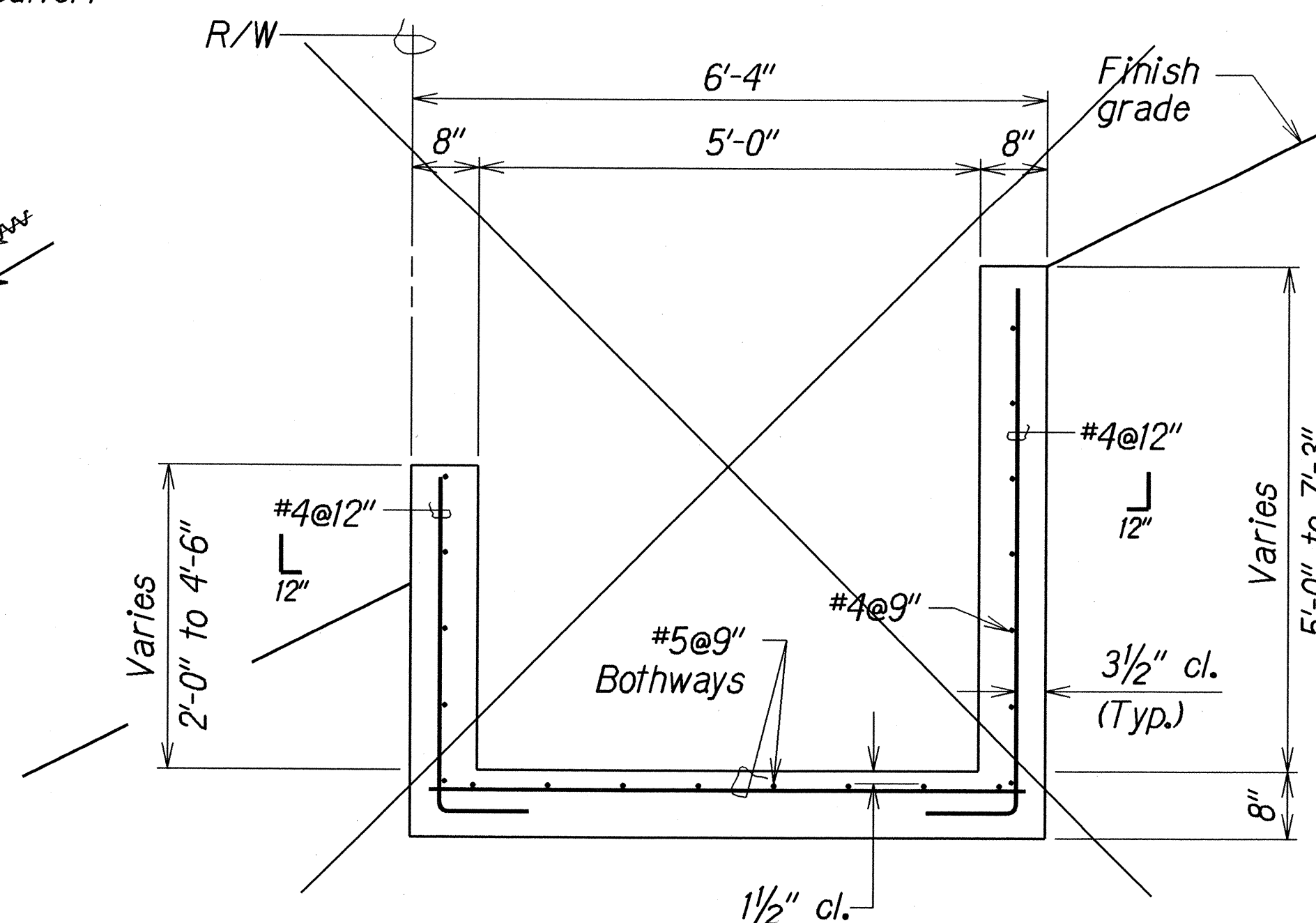
HANA HIGHWAY
DRAINAGE IMPROVEMENTS
WEST KUIAHA ROAD TO VALLEY ISLE MEMORIAL PARK
Federal Aid Project No. STP-036-1(13)
Scale: 3/4" = 1'-0" Date: AUGUST, 1998

ORIGINAL PLAN	DATE
NOTED BY	DESIGNED BY
CHECKED BY	QUANTITIES BY

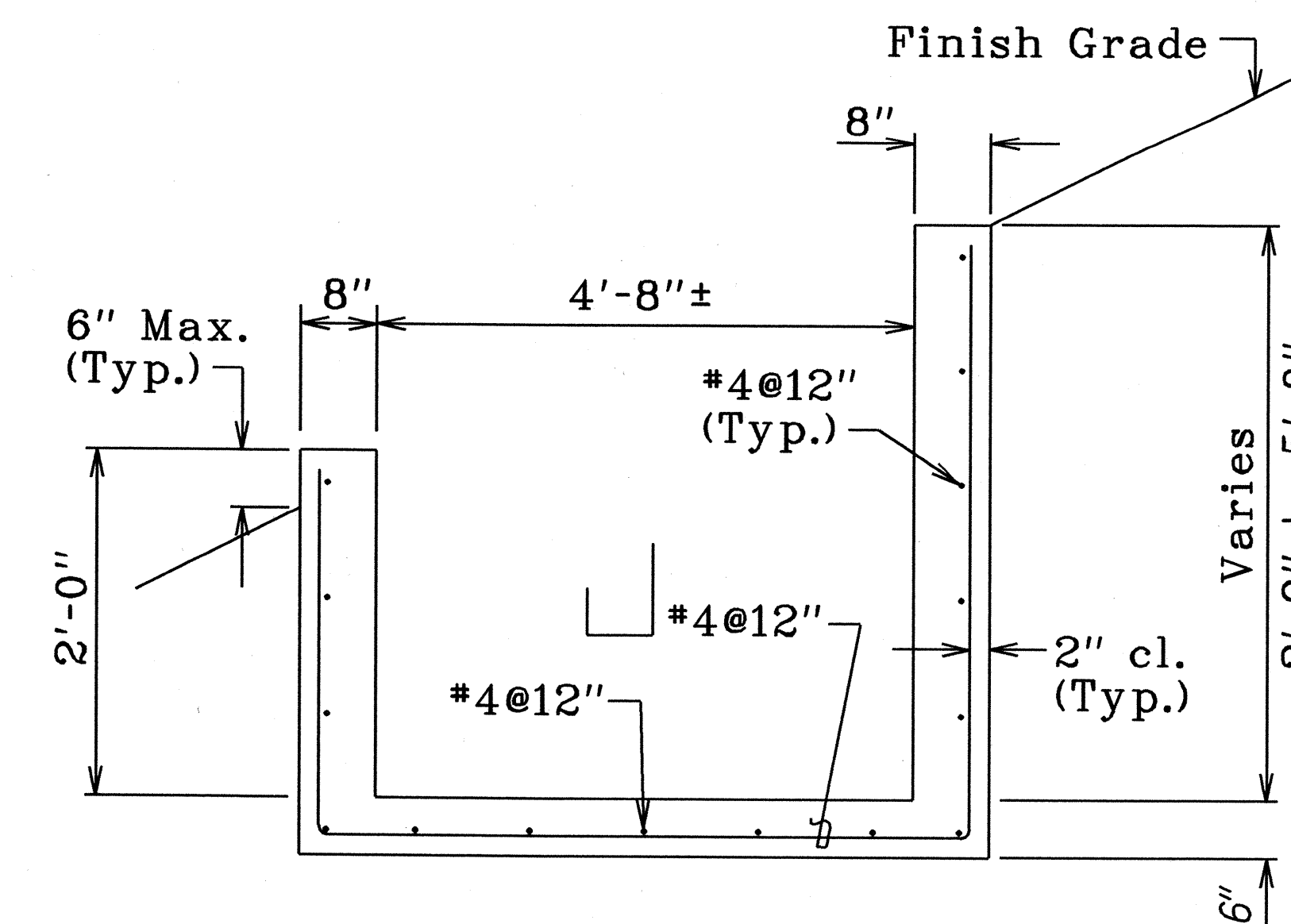
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-036-1(13)	1999	12	16



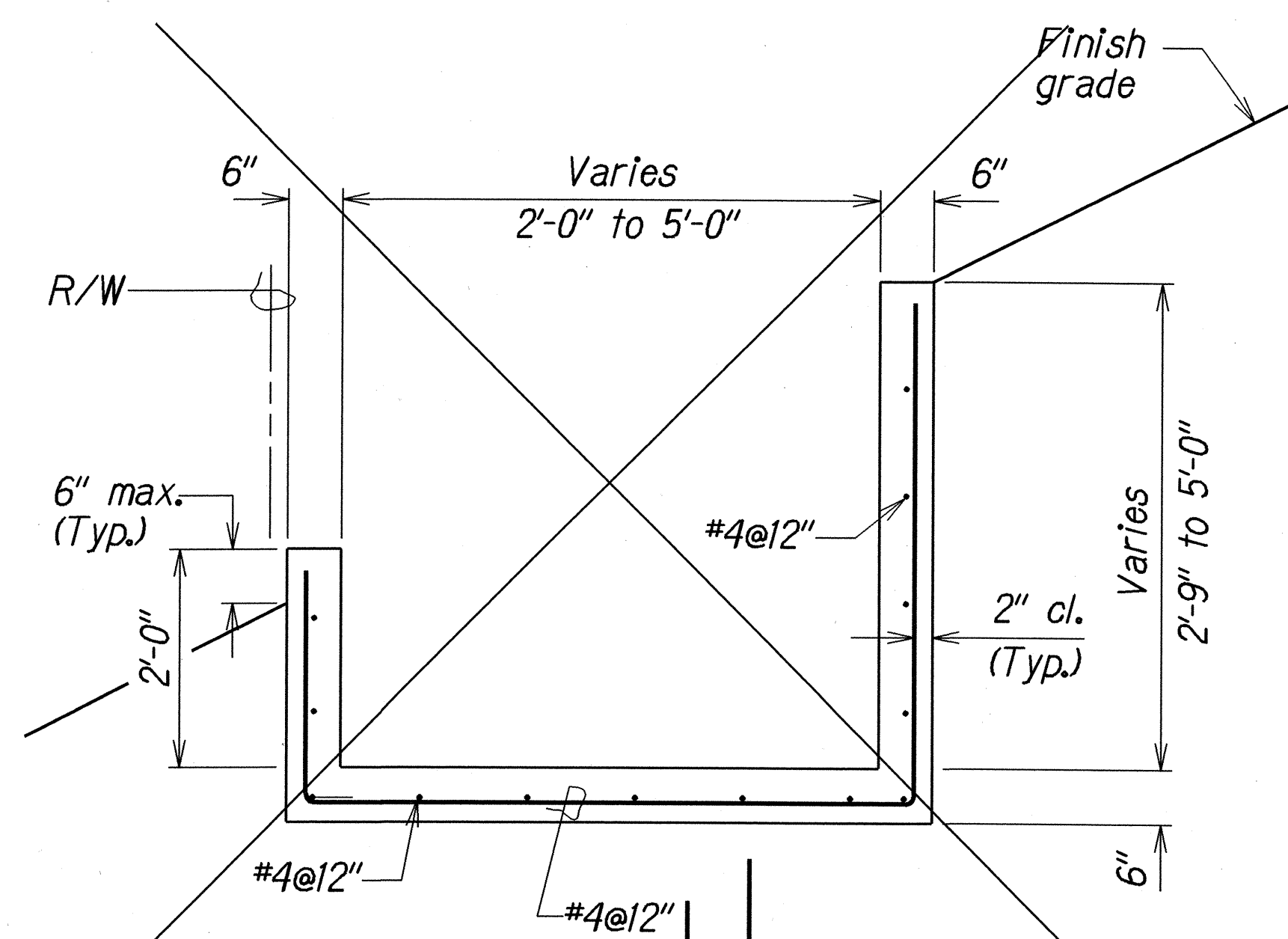
SECTION C
H8/H9



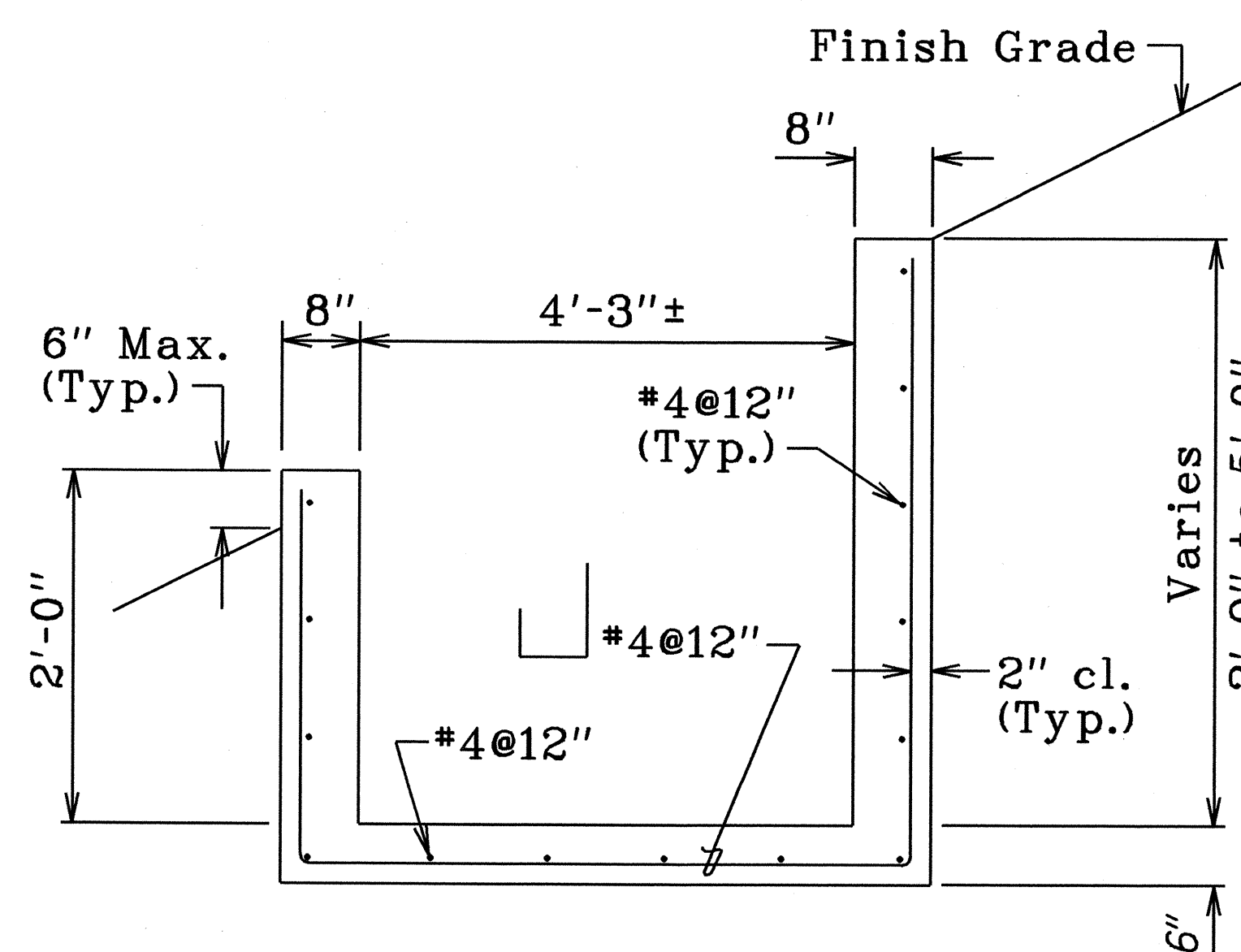
SECTION D
H8/H9



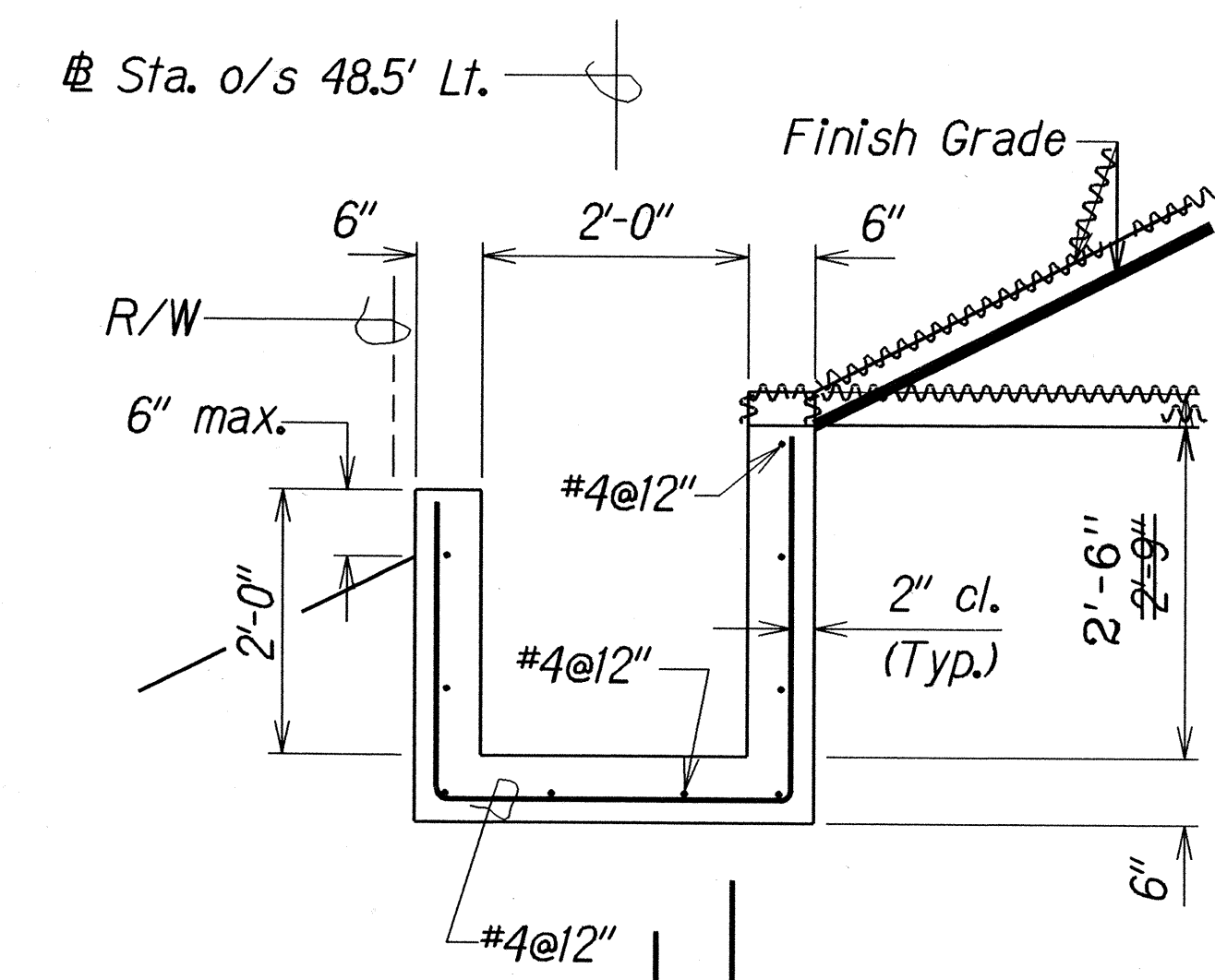
SECTION E
H8/H9



SECTION F
H8/H9



SECTION G
H8/H9



SECTION H
H8/H9

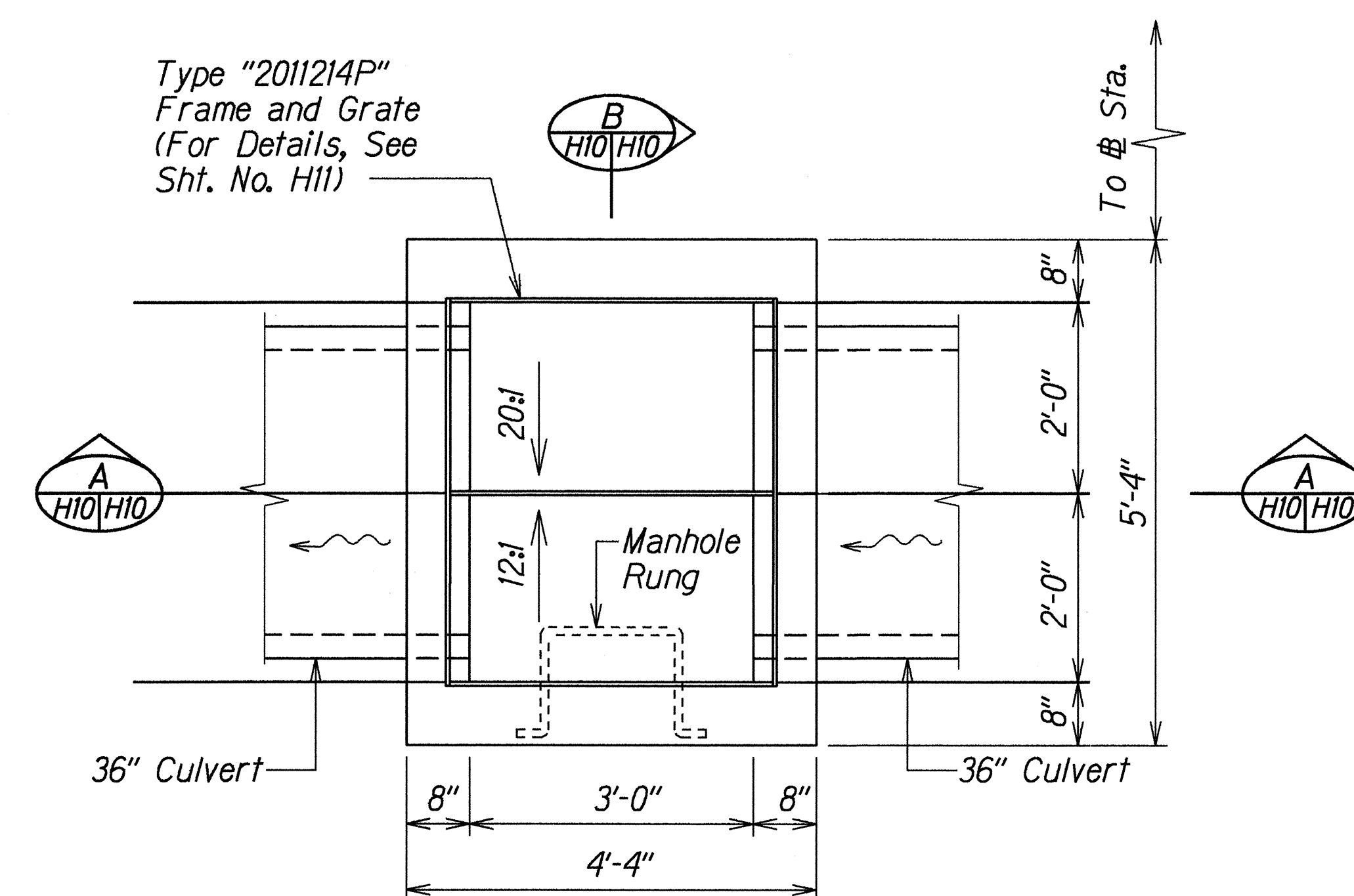
DETAILS OF TYPE "I" STORM DRAIN MANHOLE

ORIGINAL PLAN	DATE
DESIGNED BY	DATE
CHECKED BY	DATE
NOTED BY	DATE
QUANTITIES BY	DATE
CHECKED BY	DATE

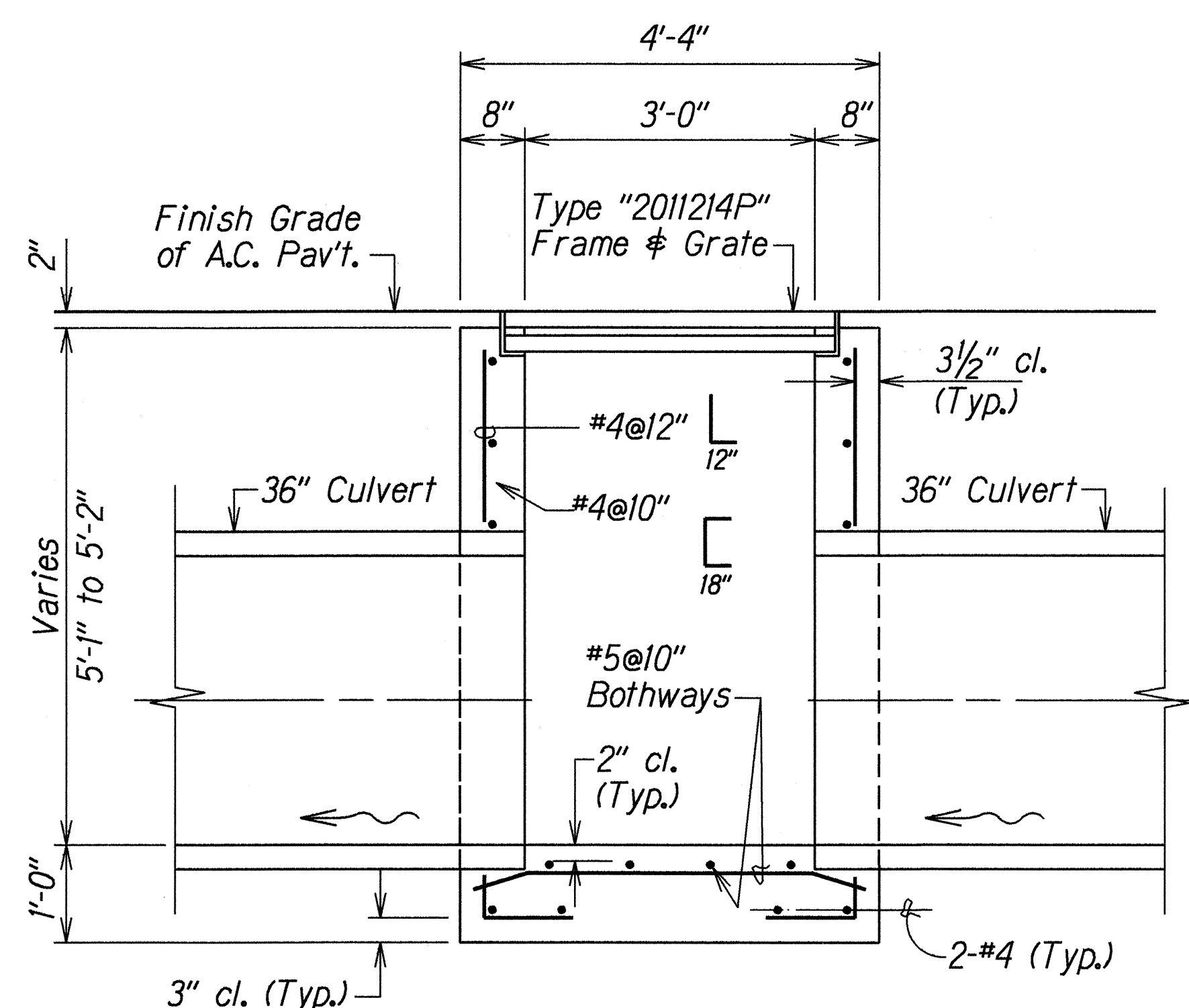
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
DRAINAGE DETAILS
HANA HIGHWAY
DRAINAGE IMPROVEMENTS
WEST KUIAHA ROAD TO VALLEY ISLE MEMORIAL PARK
Federal Aid Project No. STP-036-1(13)
Scale: 3/4" = 1'-0" Date: AUGUST, 1998

SHEET No. H9 OF 12 SHEETS

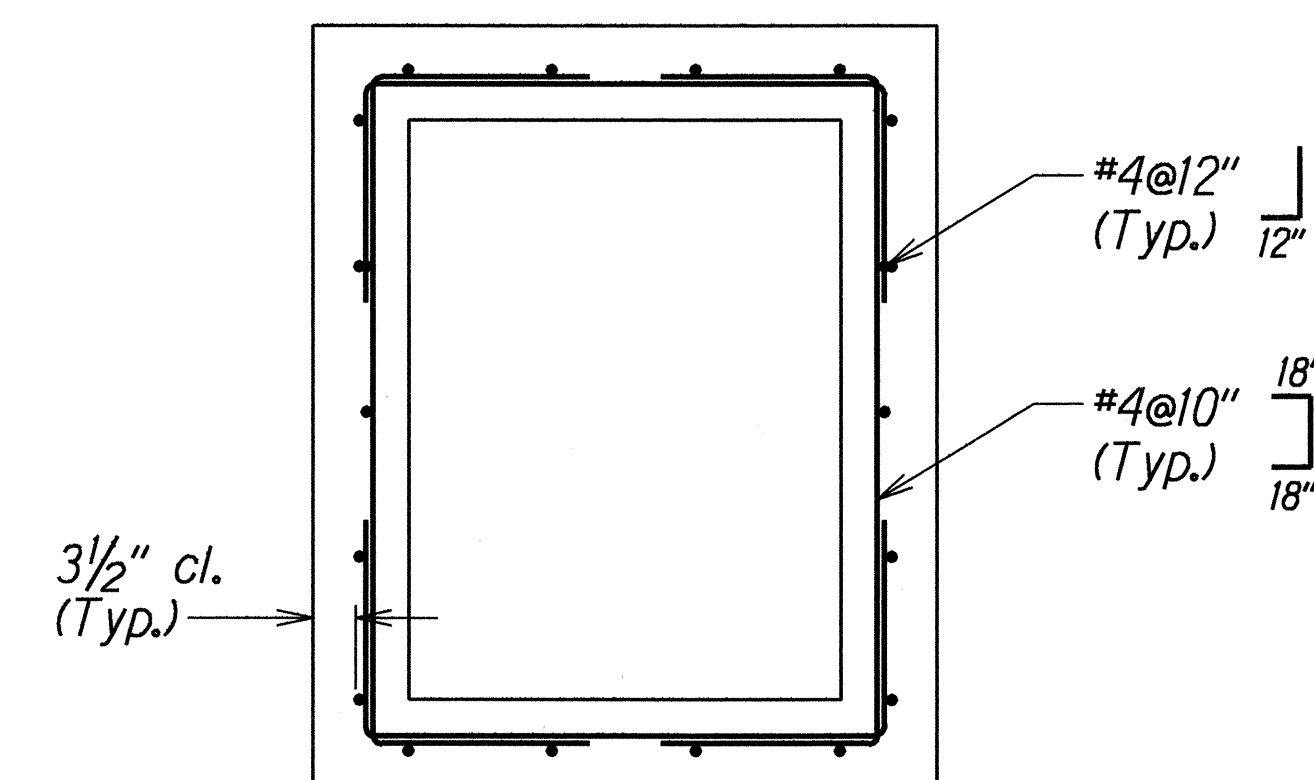
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-036-1(13)	1999	13	16



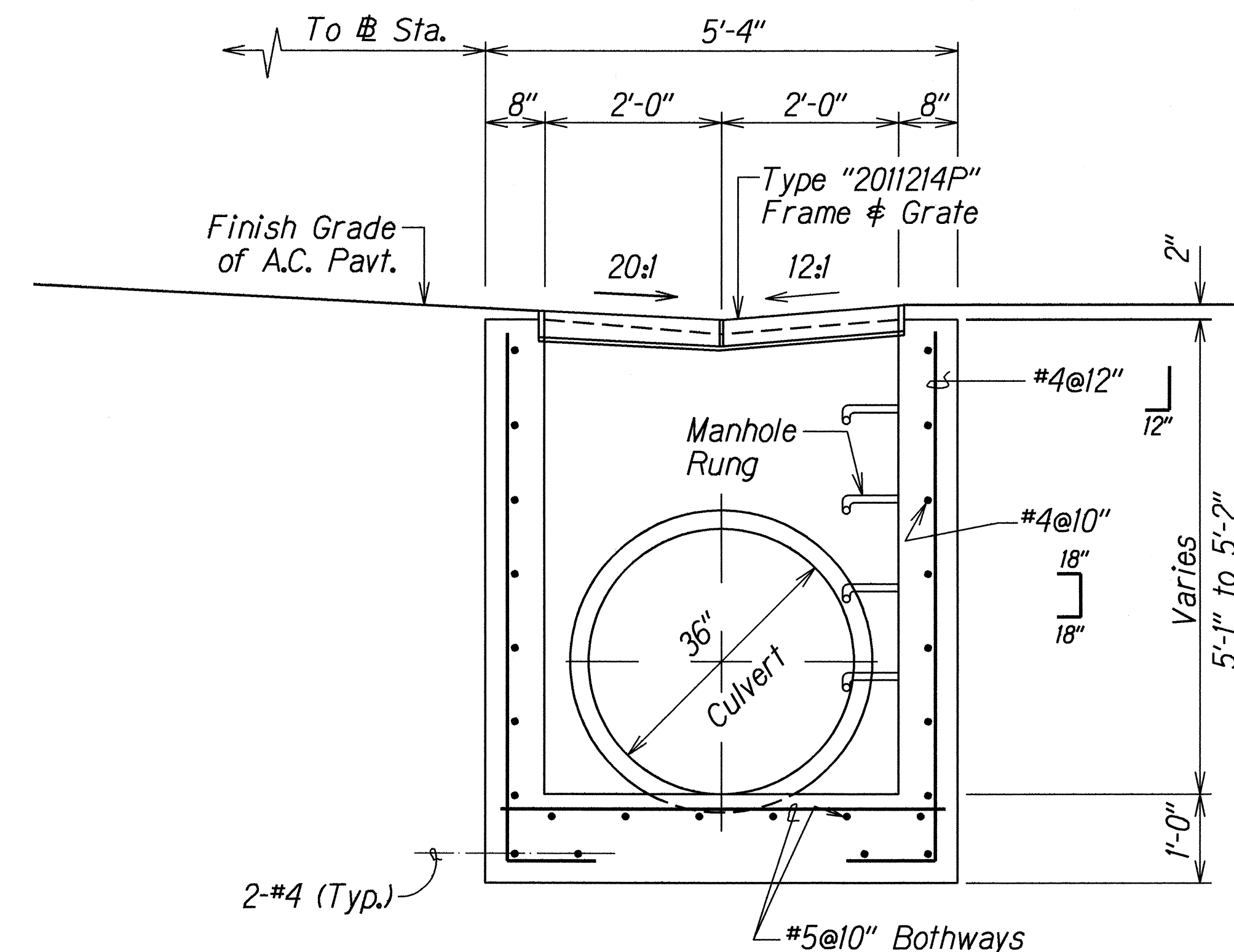
PLAN



SECTION A-A



PLAN VIEW OF WALL REINFORCING



SECTION B-B

TYPICAL DETAILS OF TYPE "2011214P" GRATED DROP INLET

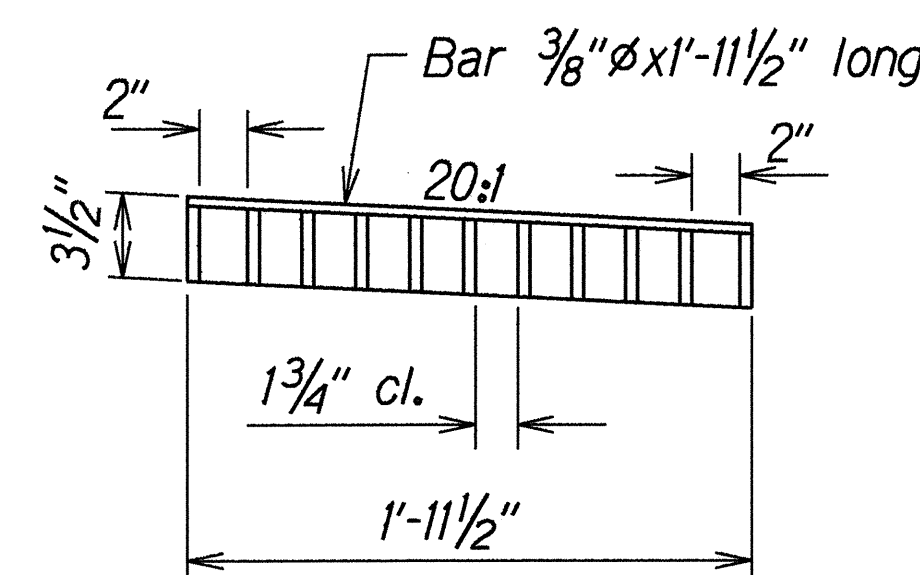
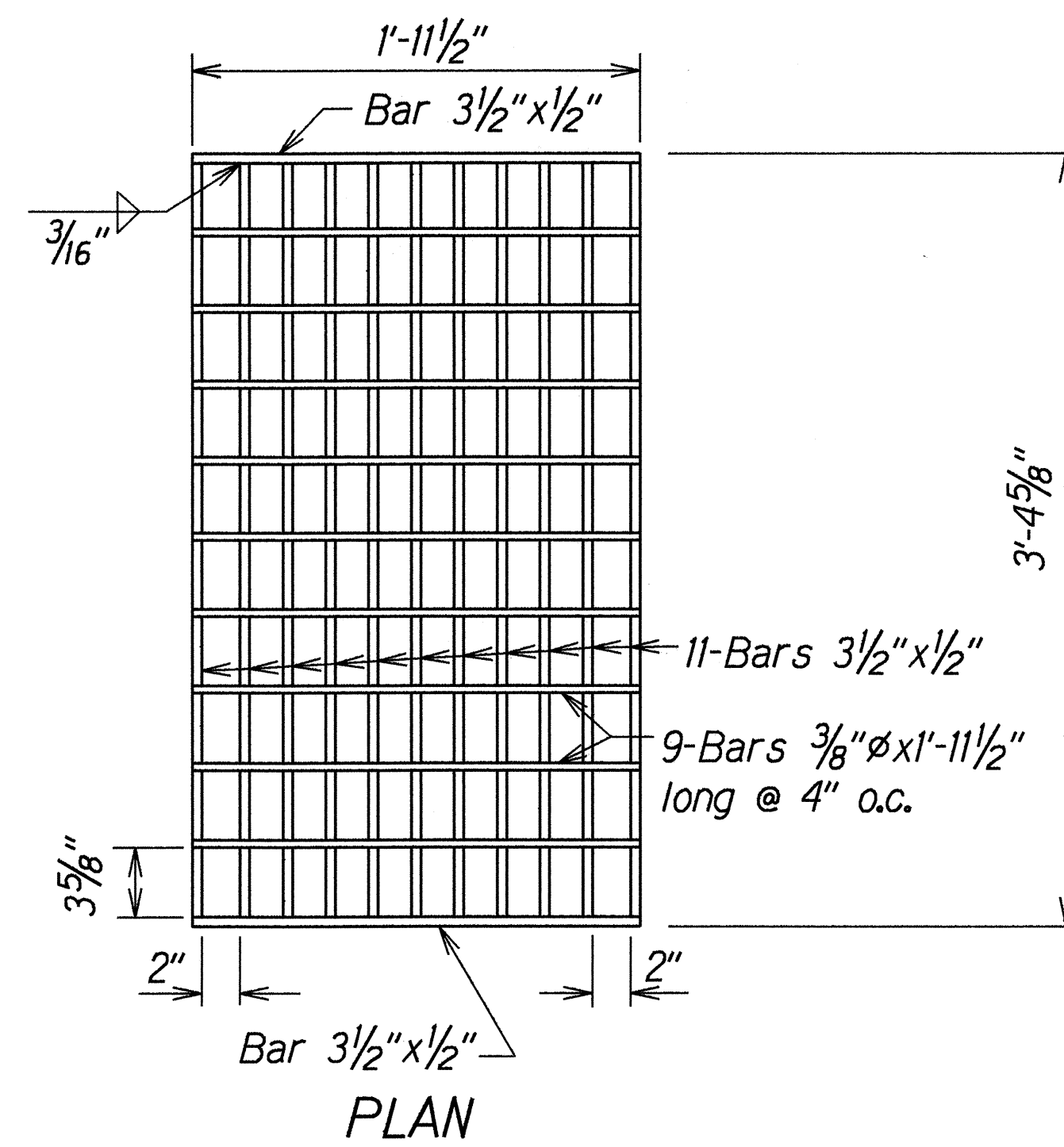
ORIGINAL	DATE
PLAN	1/98
NOTED	1/98
DESIGNED BY	1/98
CHECKED BY	1/98

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS
HANA HIGHWAY
DRAINAGE IMPROVEMENTS
WEST KUIAHA ROAD TO VALLEY ISLE MEMORIAL PARK
Federal Aid Project No. STP-036-1(13)
Scale: 3/4" = 1'-0" Date: AUGUST, 1998

SHEET No. H10 OF 12 SHEETS

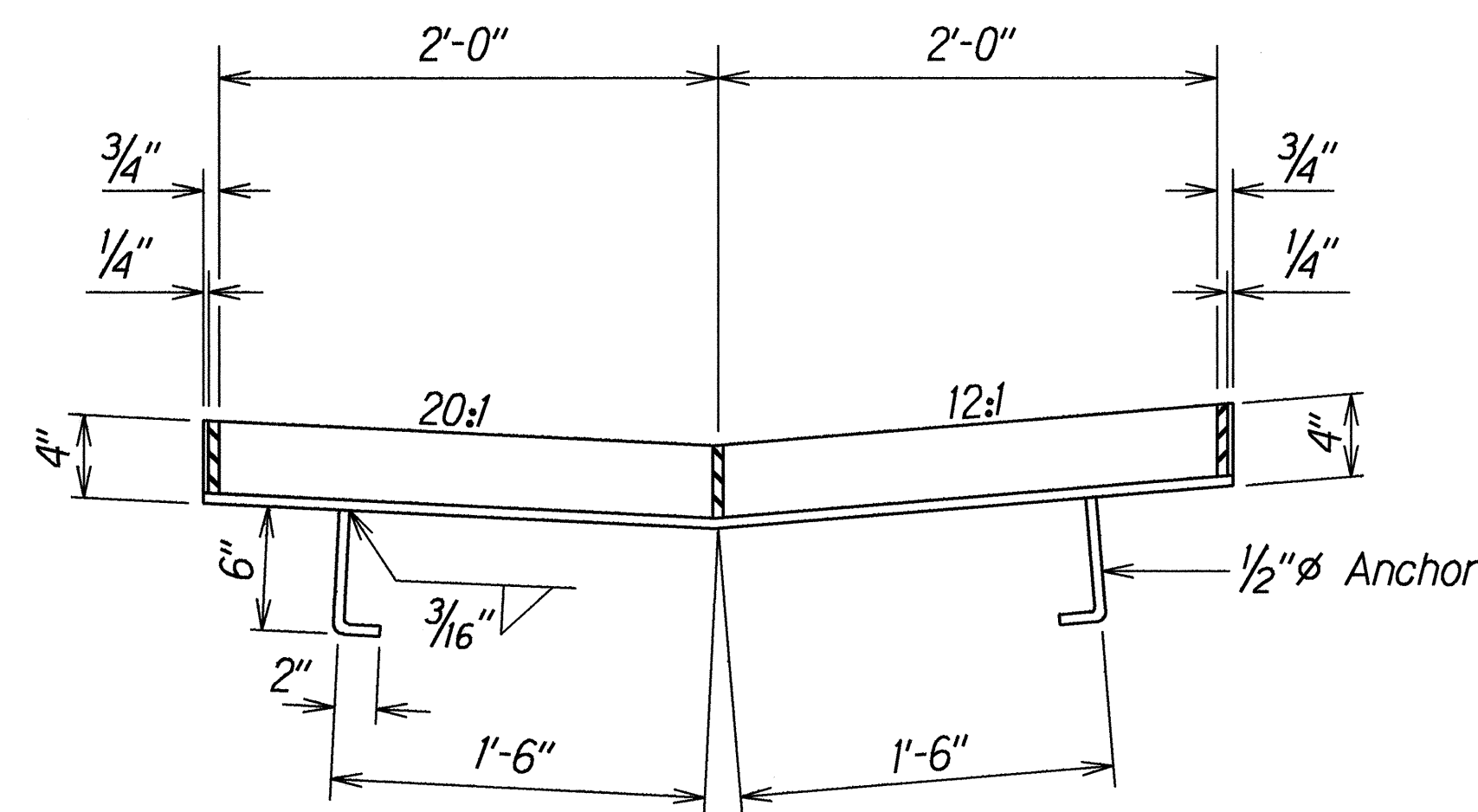
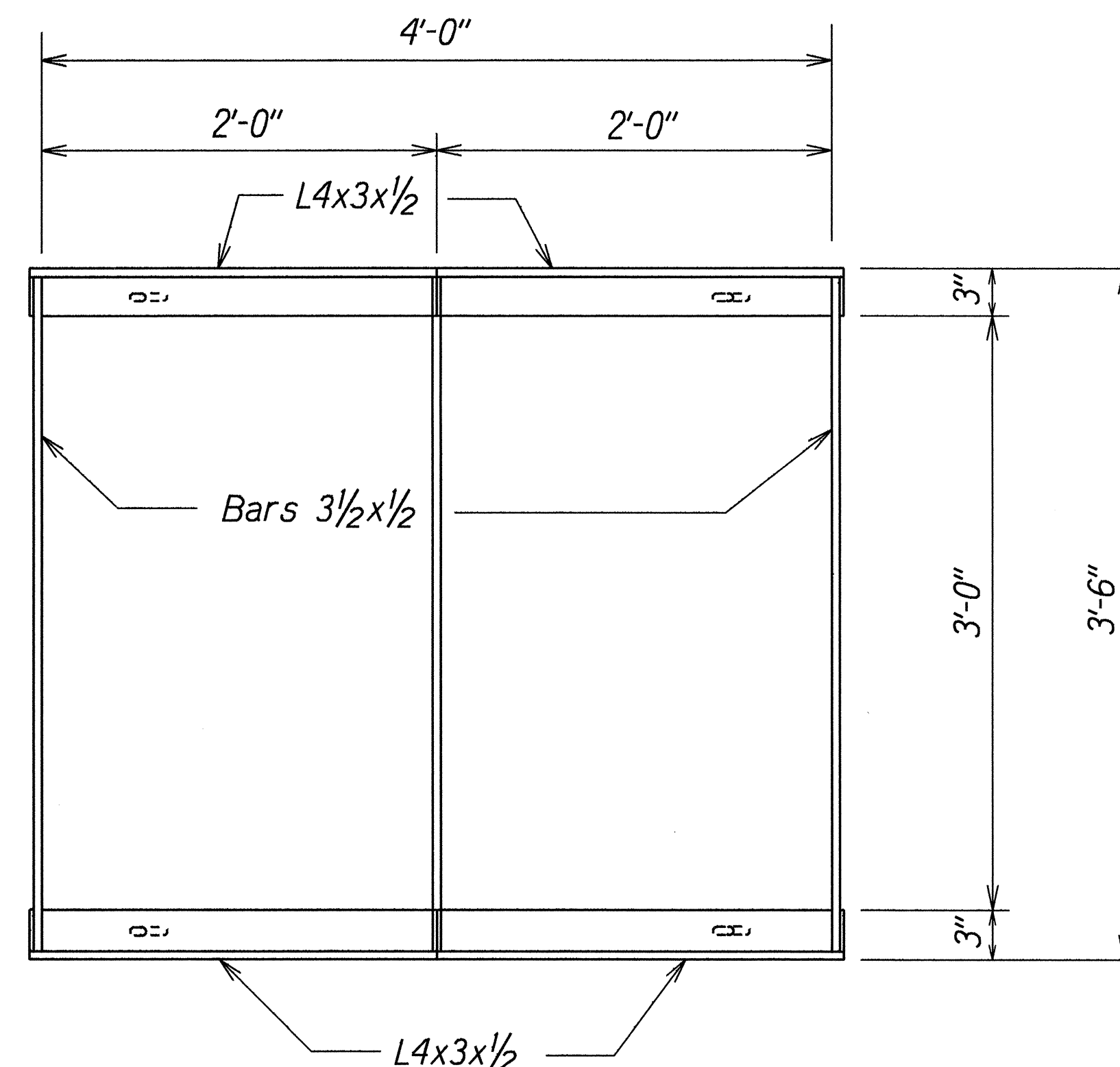
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-036-1(13)	1999	14	16



SECTION

GRATE

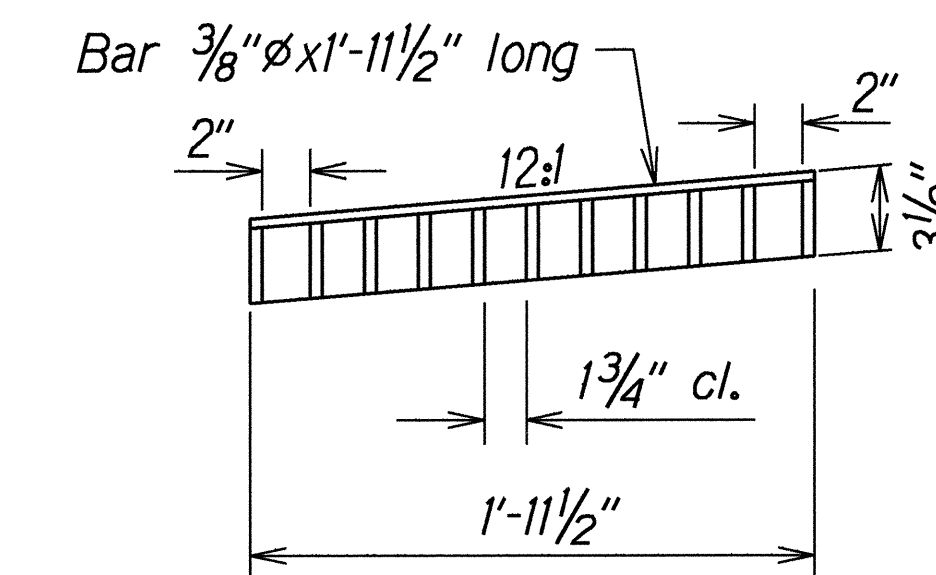
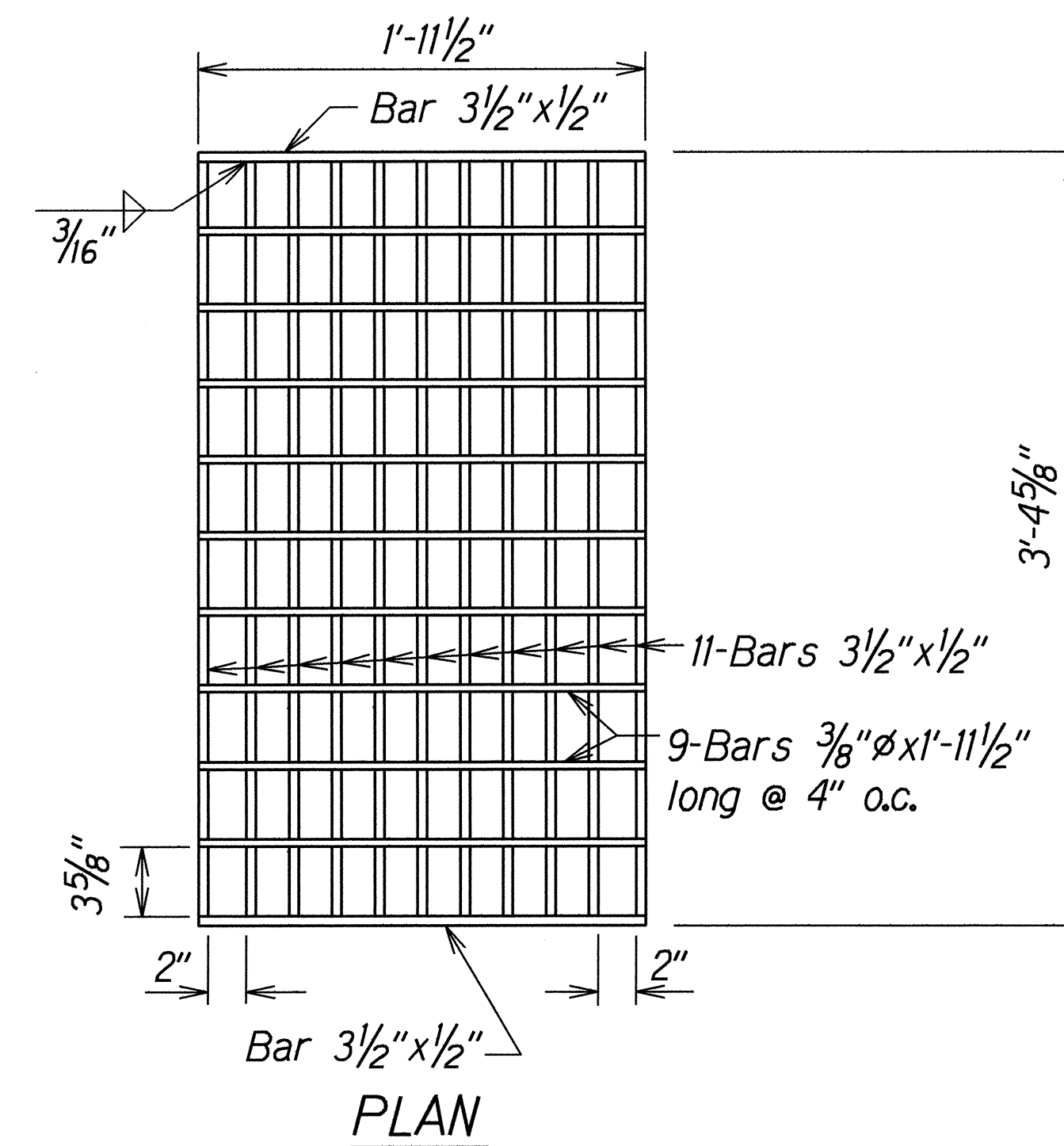
Scale: 1 1/2"=1'-0"



SECTION

FRAME

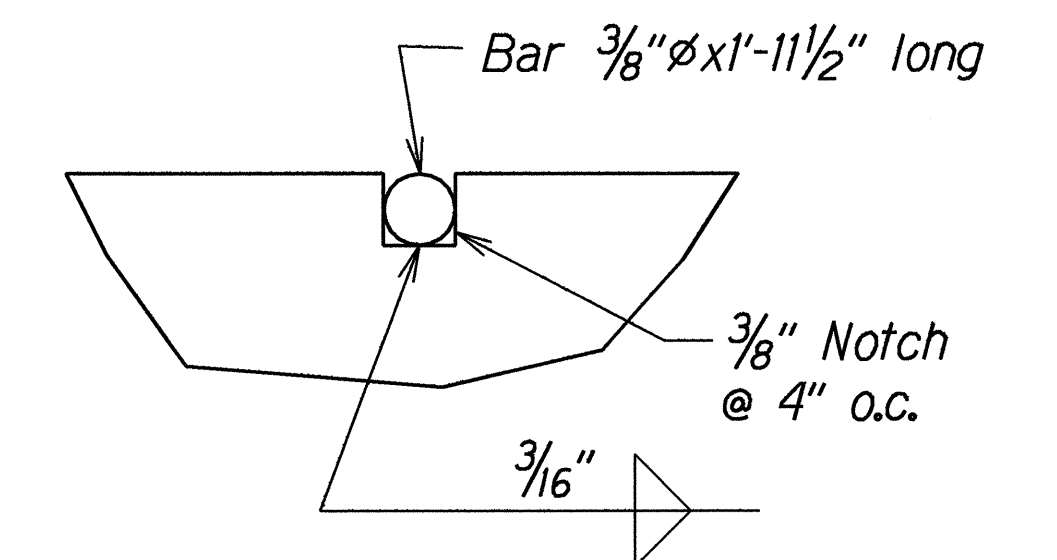
Scale: 1 1/2"=1'-0"



SECTION

GRATE

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



NOTCH DETAIL

Full Size

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

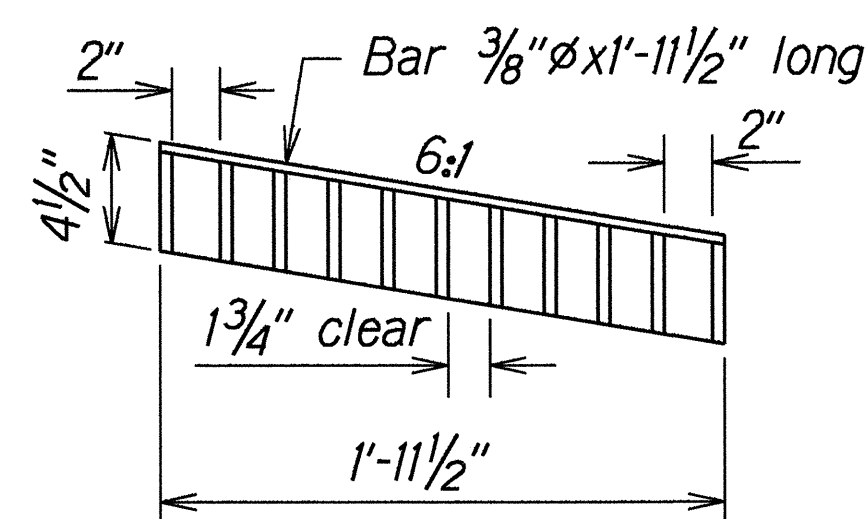
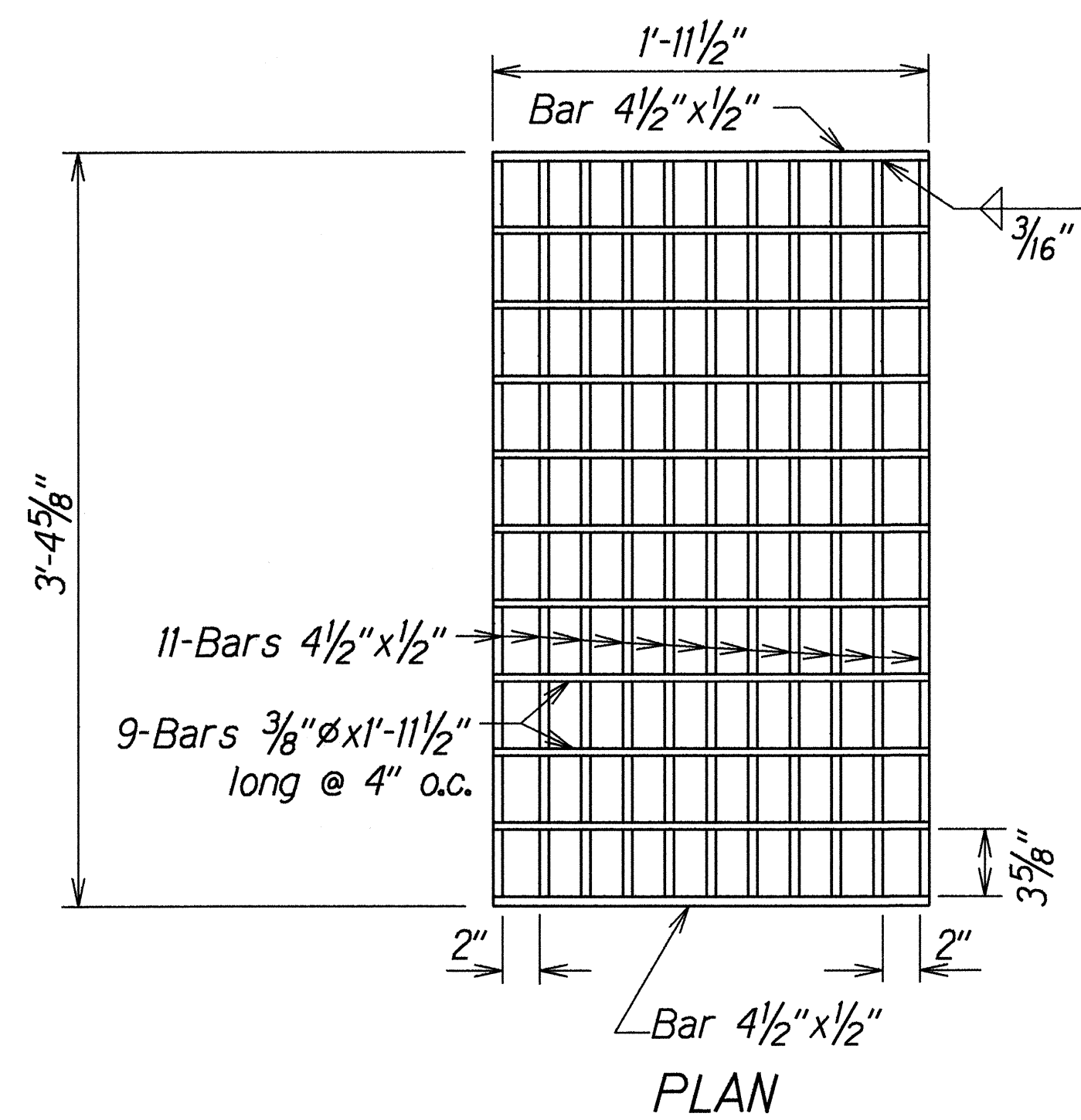
TYPICAL DETAILS OF TYPE "2011214P" STEEL FRAME AND GRATES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS
HANA HIGHWAY
DRAINAGE IMPROVEMENTS
WEST KUIAHA ROAD TO VALLEY ISLE MEMORIAL PARK
Federal Aid Project No. STP-036-1(13)
Scale: As Shown Date: AUGUST, 1998

SHEET No. H11 OF 12 SHEETS

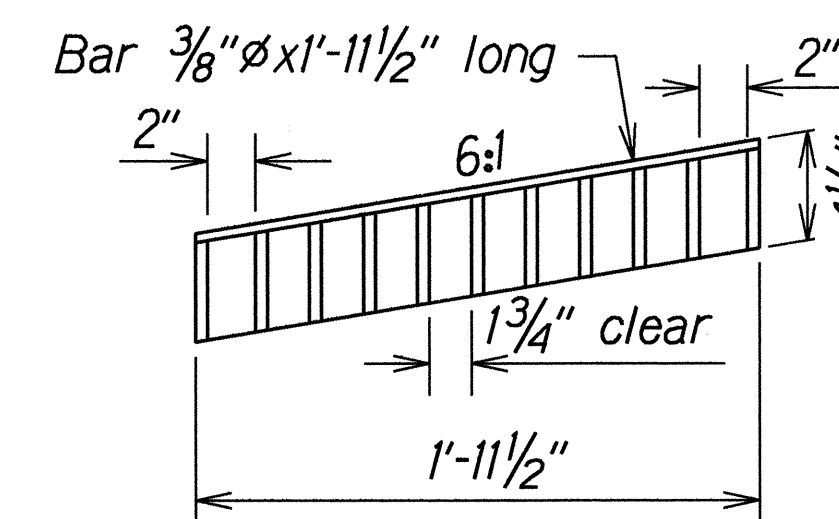
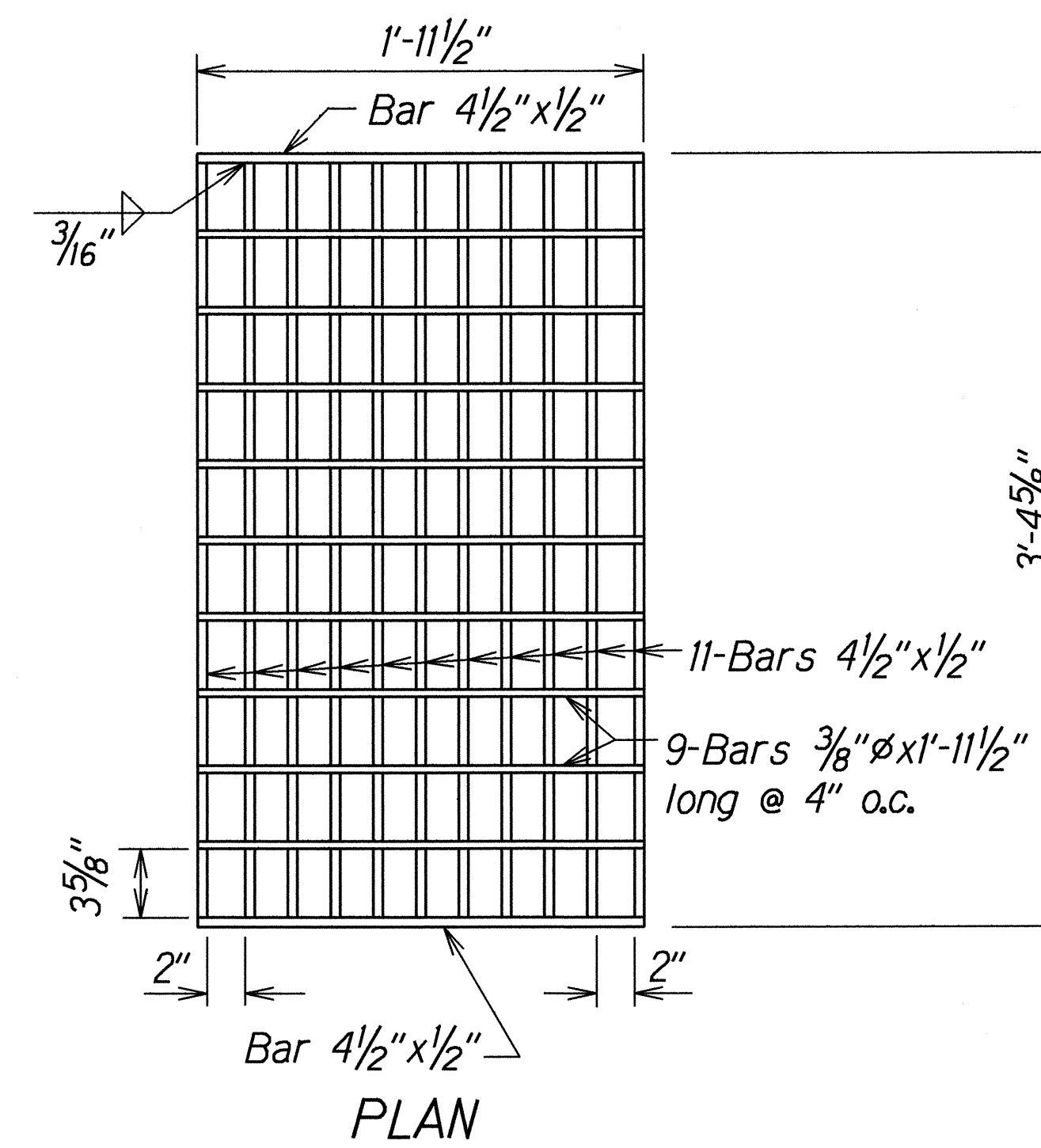
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	STP-036-1(13)	1999	15	16



SECTION

GRATE

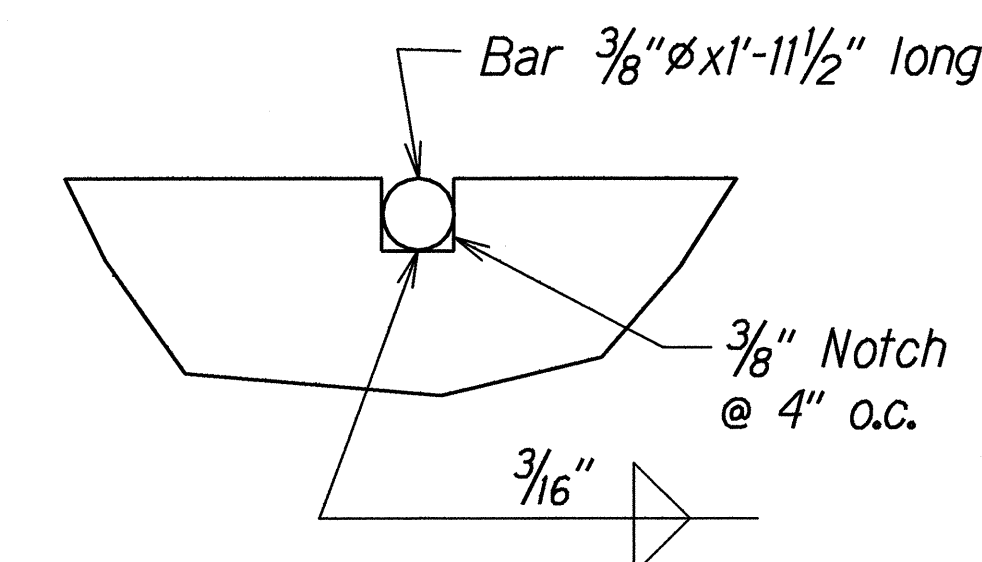
Scale: 1 1/2"=1'-0"



SECTION

GRATE

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



NOTCH DETAIL

Full Size

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

TYPICAL DETAILS OF TYPE "61614P" GRATES AT STA. 122+28 o/s 25'± LT.

ORIGINAL PLAN	DATE
SURVEY PLOTTED BY	7/27/98
DESIGNED BY	
CHECKED BY	
QUANTITIES BY	
NOTES BY	

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DRAINAGE DETAILS
HANA HIGHWAY
DRAINAGE IMPROVEMENTS

WEST KUIAHA ROAD TO VALLEY ISLE MEMORIAL PARK
Federal Aid Project No. STP-036-1(13)
Scale: As Shown Date: AUGUST, 1998

SHEET No. H12 OF 12 SHEETS