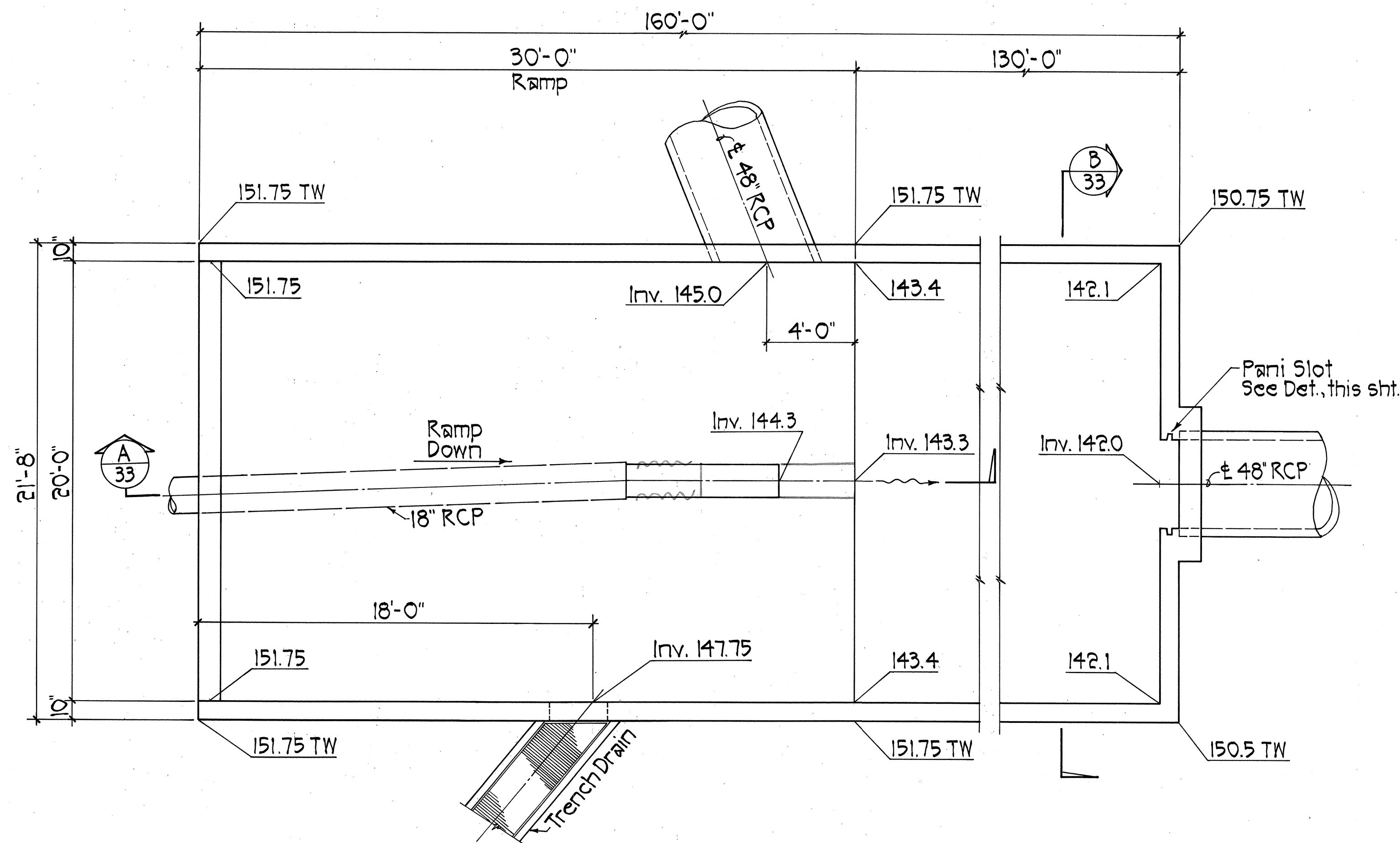
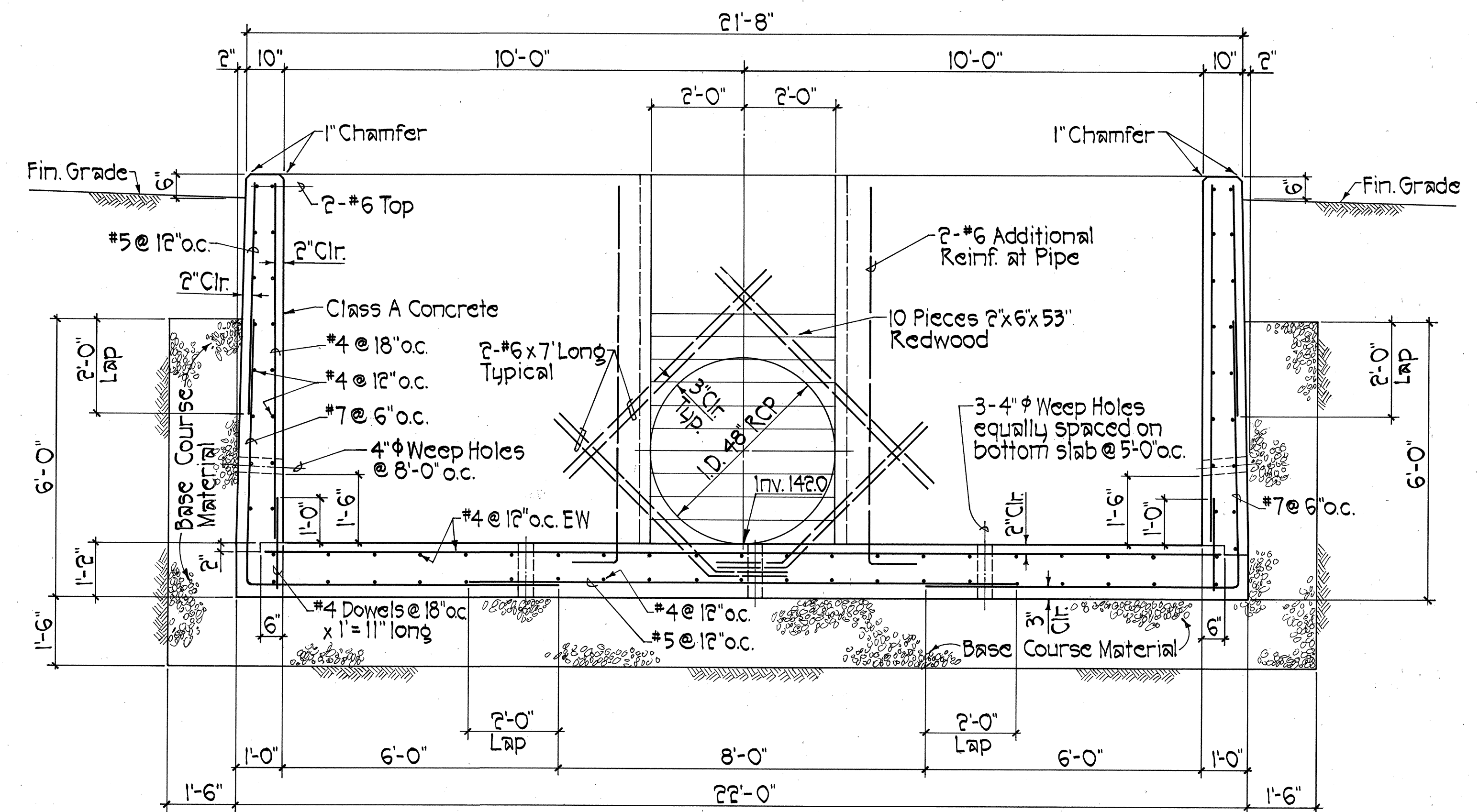


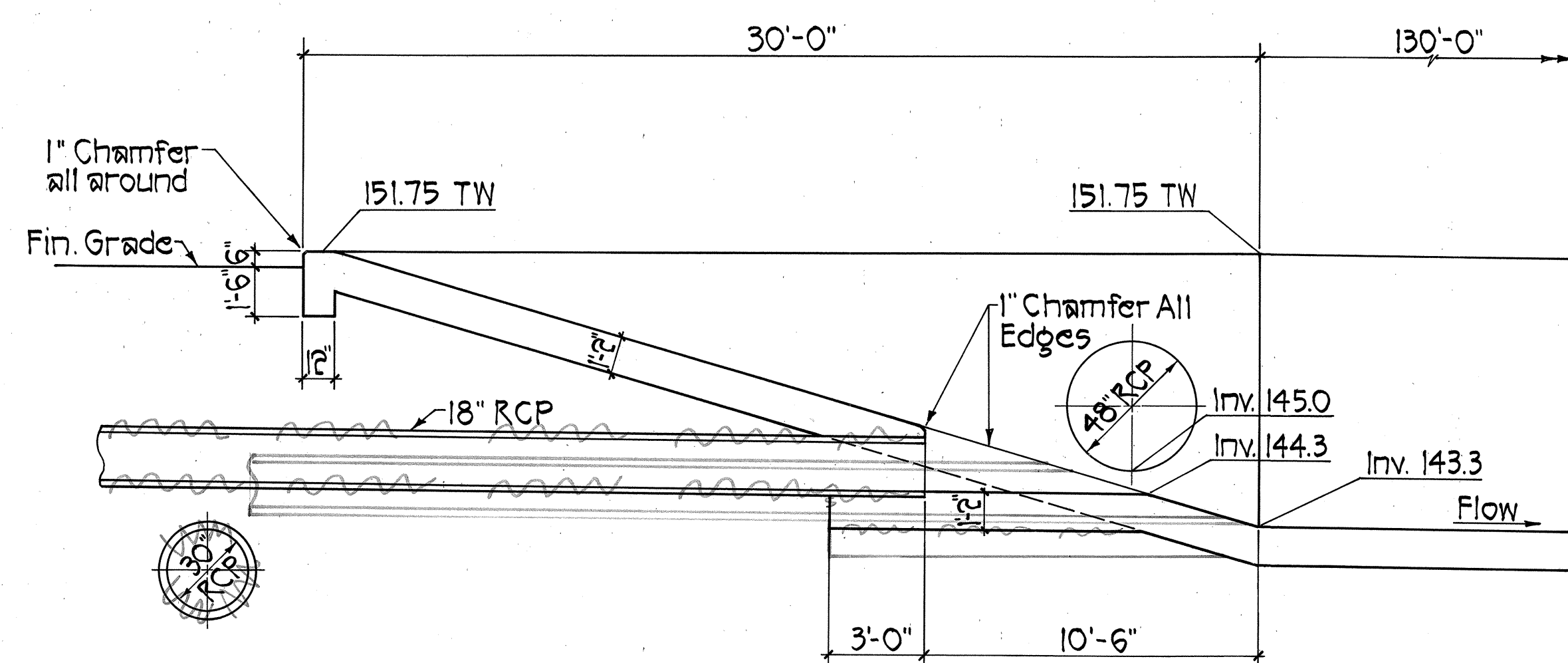
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50E-01-98	1998	33	79



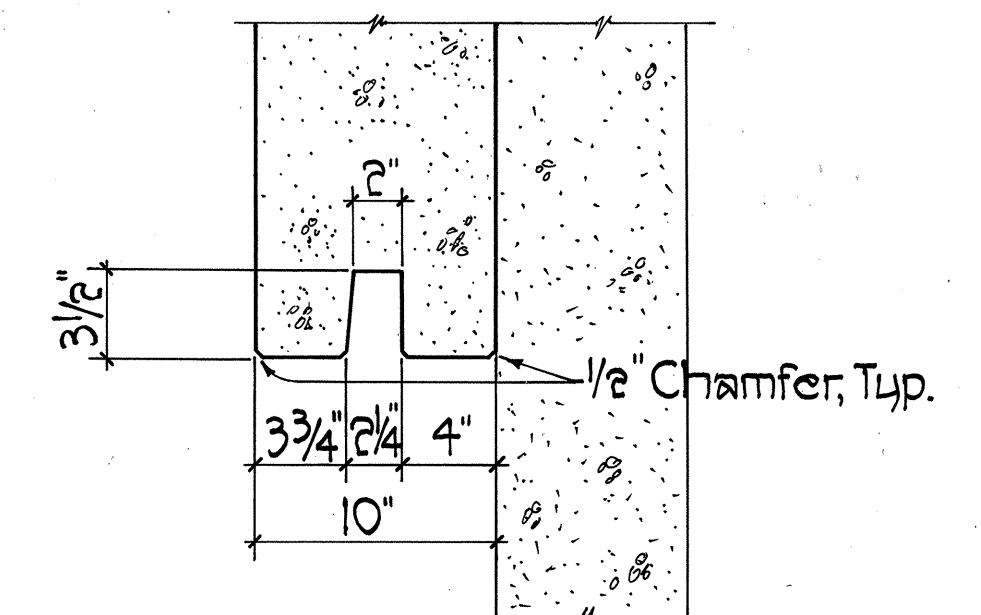
PLAN - CONCRETE SUMP
Scale: 1/4" = 1'-0"



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

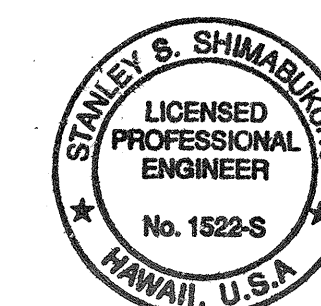


SECTION A
Scale: 1/4" = 1'-0"



TYP. PANI SLOT DETAIL
Scale: 1 1/2" = 1'-0"

ORIGINAL PLAN	DATE
DRAWN BY	
DESIGNED BY	
CHECKED BY	
NO.	



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Stanley S. Shimabukuro
SHIMABUKURO, ENDO & YOSHIZAKI, INC.
1126 12th Avenue
Honolulu, Hawaii 96816

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SUMP RELOCATION DETAILS

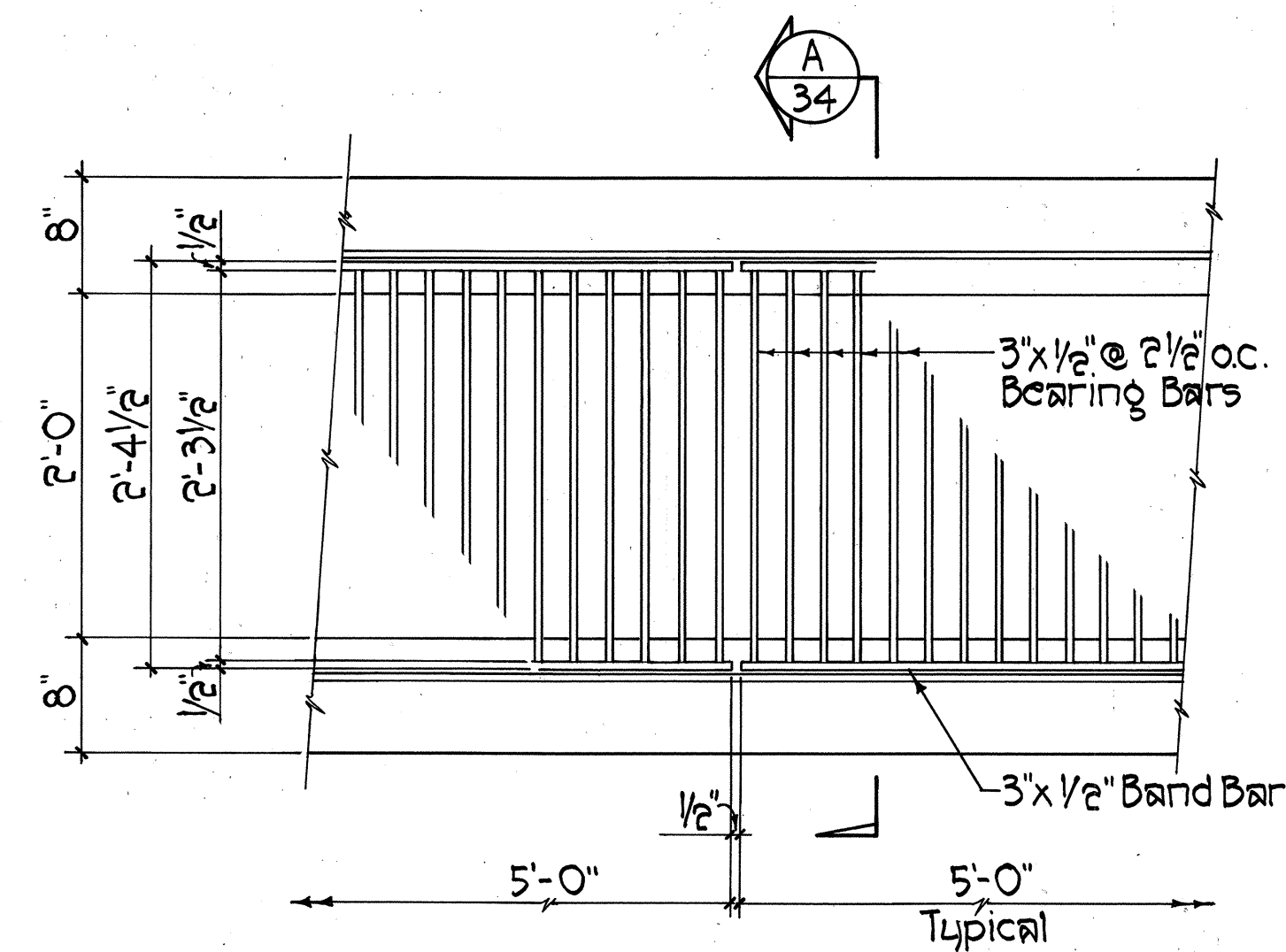
KAUMUALII HIGHWAY, KUHIO HIGHWAY &
RICE STREET INTERSECTION IMPROVEMENTS
PROJECT NO. 50E-01-98

SCALE: AS NOTED DATE: _____

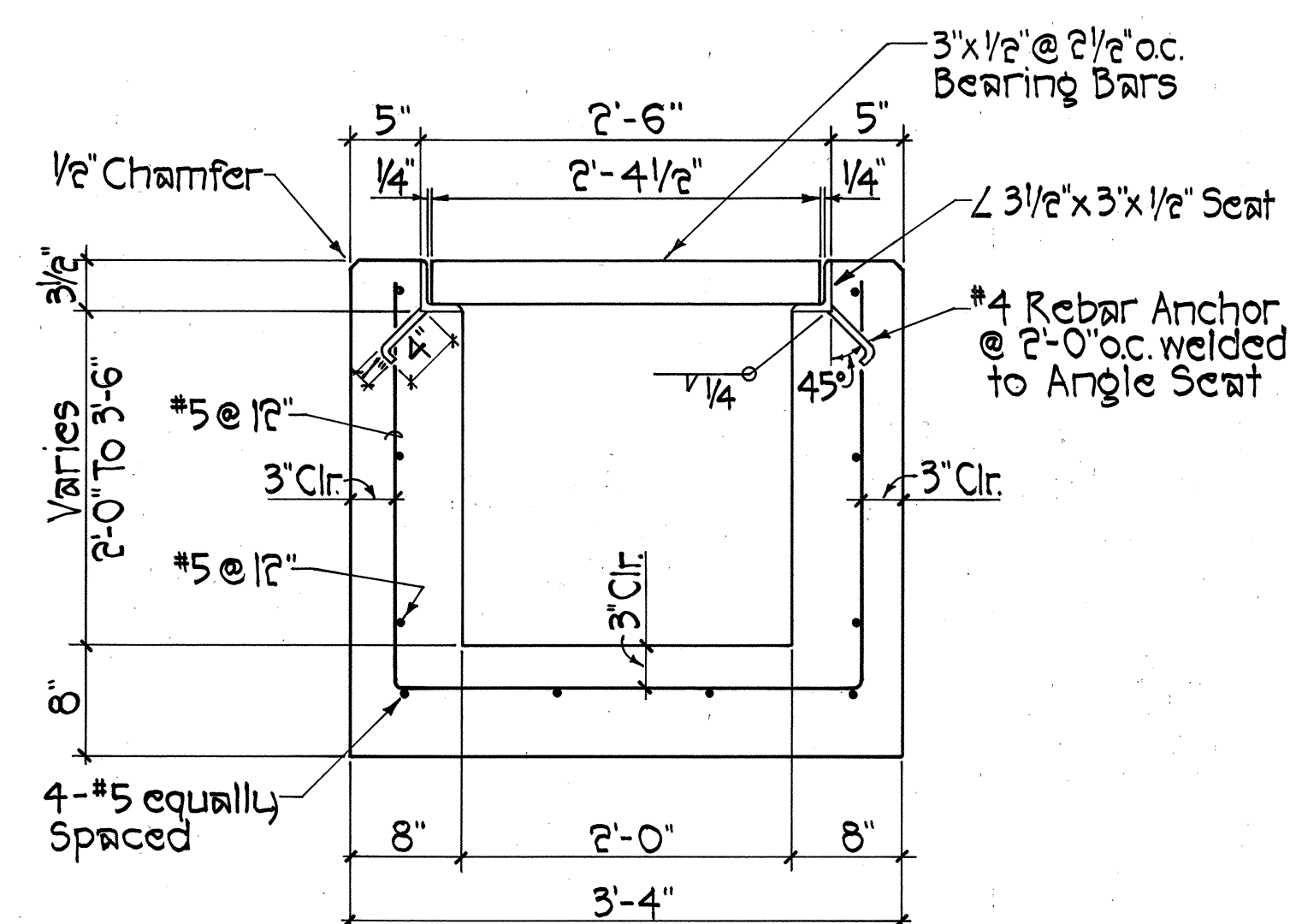
SHEET NO. 1 OF 7 SHEETS

"AS-BUILT"

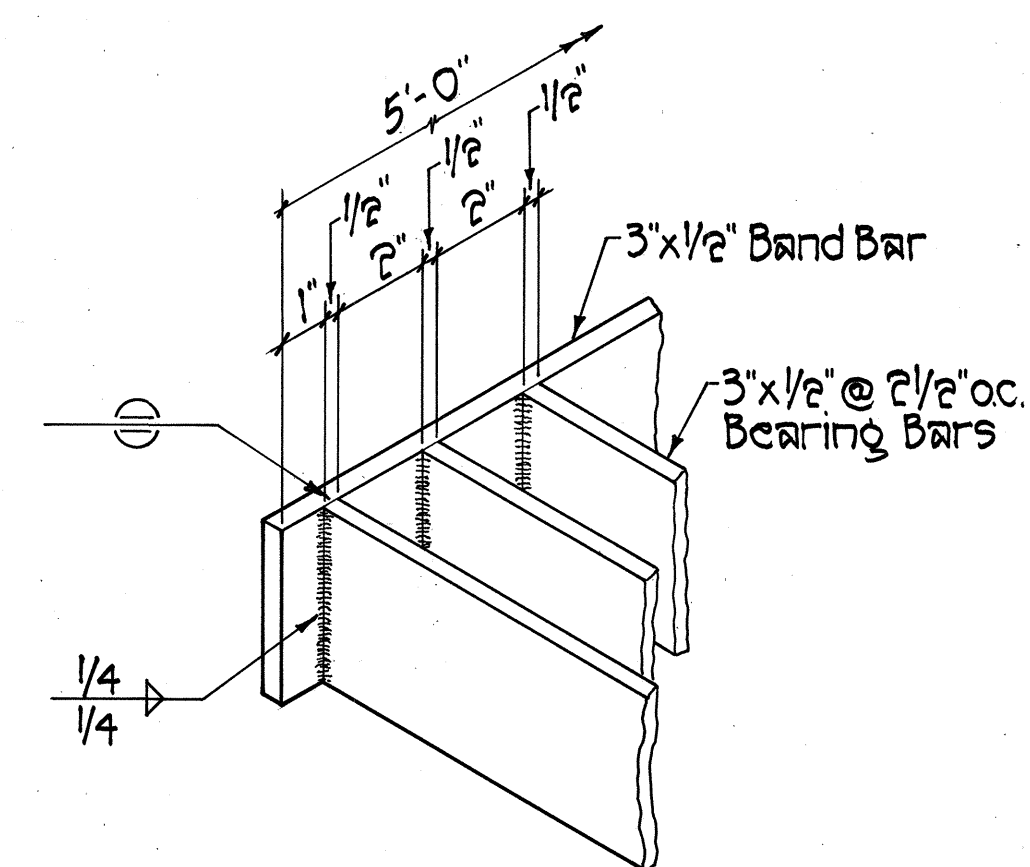
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50E-01-98	1998	34	79



PLAN
Scale: 1" = 1'-0"



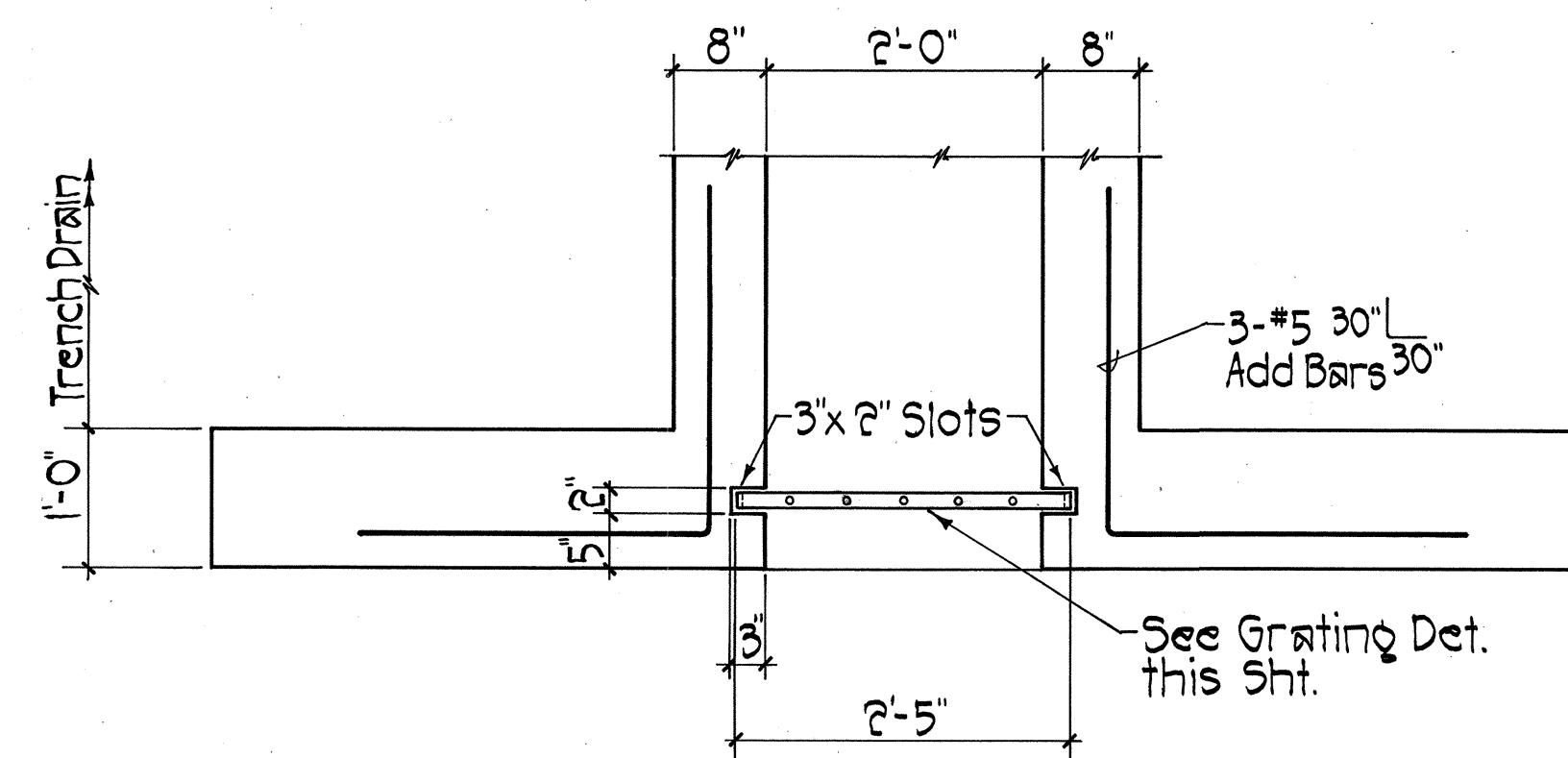
SECTION A
Scale: 1" = 1'-0" 34



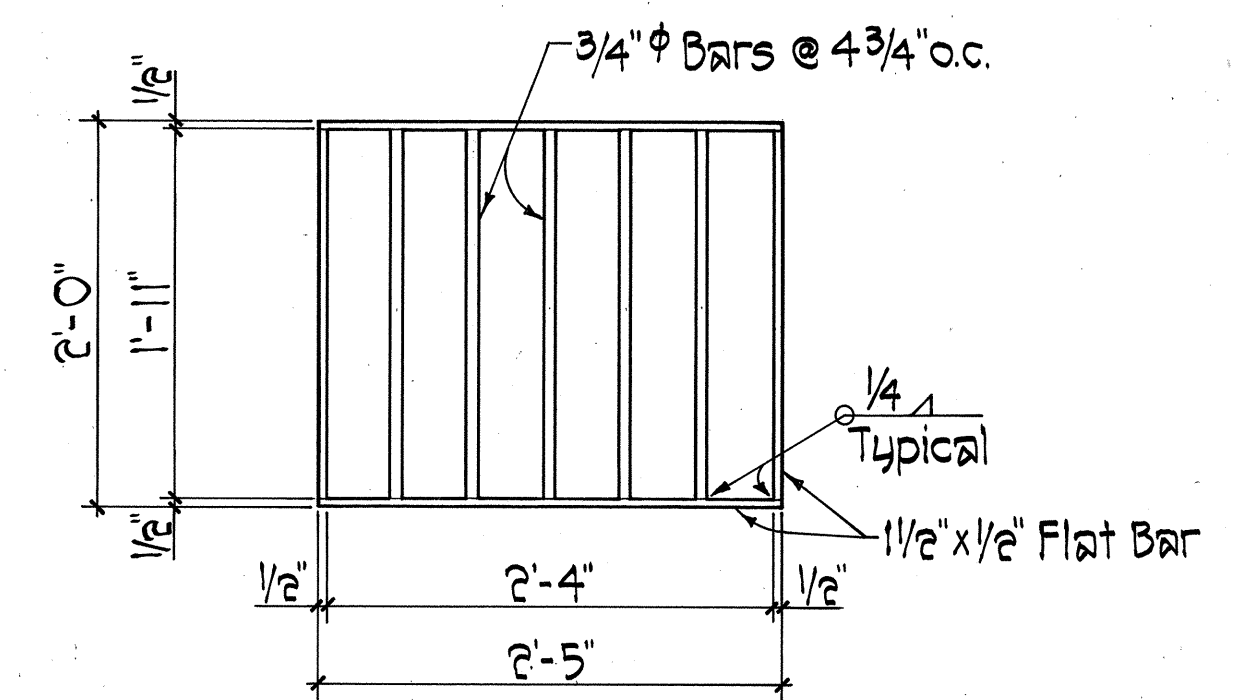
GRATING DETAIL

Not To Scale

NOTE: Hot-Dip Galvanize Grating and Angle Seat after fabrication.

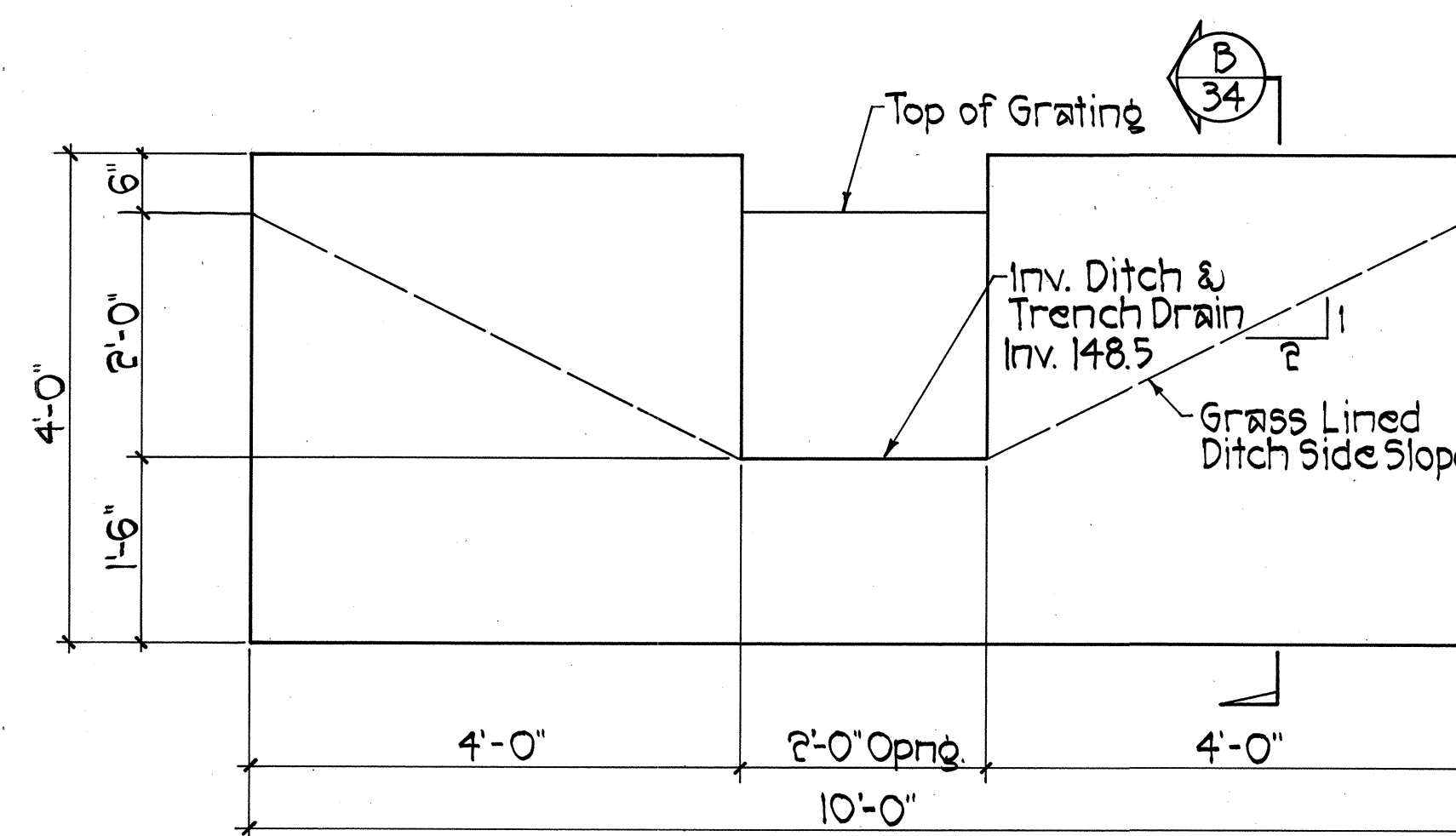


PLAN
Scale: $3/4" = 1'-0"$



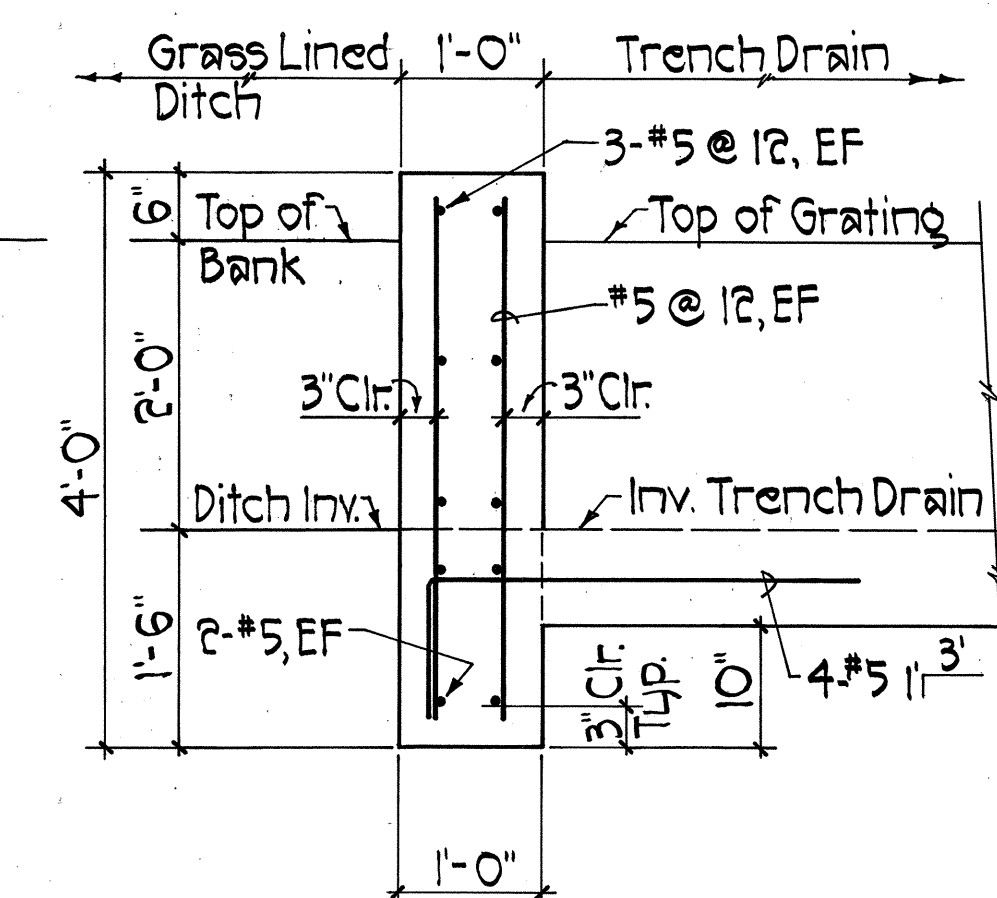
GRATING DETAIL

Scale: 1" = 1'-0"



ELEVATION (C)
Scale: 3/4" = 1'-0" 34

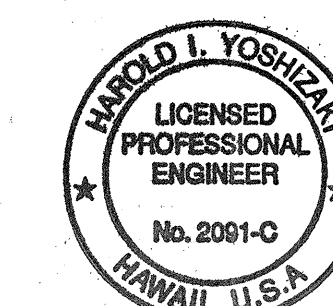
TRENCH DRAIN INLET HEADWALL DETAILS



SECTION **B**
Scale: 3/4"=1'-0" 34

TYPICAL DRAIN DETAILS

ORIGINAL PLAN	SURVEY PLOTTED BY _____ DATE _____
	DRAWN BY _____
	TRACED BY _____
	DESIGNED BY _____
	QUANTITIES BY _____
No. _____	CHECKED BY _____



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UNDER MY SUPERVISION.
Harold T. Yoshizaki
SHIMABUKURO, ENDO & YOSHIZAKI, INC.
1126 12th Avenue
Honolulu, Hawaii 96816

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SUMP RELOCATION DETAILS

KAUMUALII HIGHWAY, KUHIO HIGHWAY &
RICE STREET INTERSECTION IMPROVEMENTS
PROJECT NO. 50E-01-28

SCALE: AS NOTED DATE:

SHEET No. 2 OF 7 SHEETS

3'-5"

4'-0"

3/8"

1/4" Typ.

1" Round Steel Rods @ 6" O.C. Typ.

1/2" Thk. x 1-1/2" Wide Steel Bar. Hot-Dip Galvanize Metal Grating After Fabrication.

Note:

1. The following shall not be measured separately for payment but shall be considered incidental to the various contract items:
 - a. Redwood
 - b. Metal Grating, See Detail D/35.

Note:

1. The following shall not be measured separately for payment but shall be considered incidental to the various contract items:
 - a. Redwood
 - b. Metal Grating, See Detail D/35.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SUMP RELOCATION

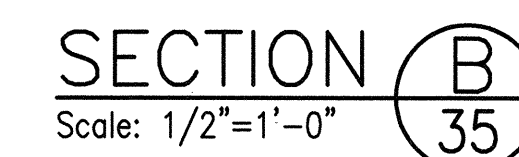
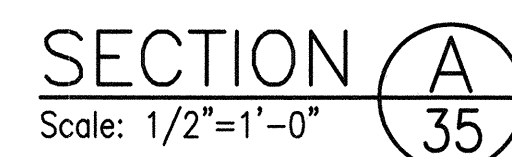
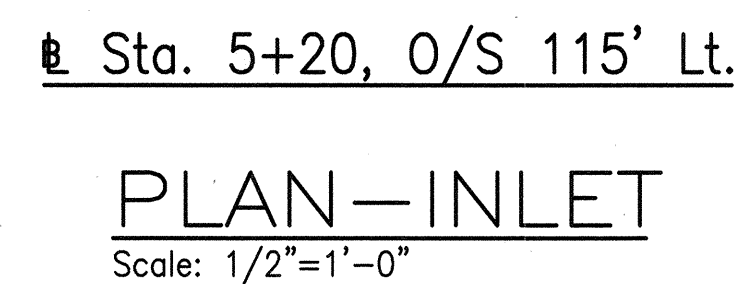
DETAILS

KAUMUALII HIGHWAY, KUHIO HIGHWAY &
ICE STREET INTERSECTION IMPROVEMENTS

PROJECT NO. 50E-01-98

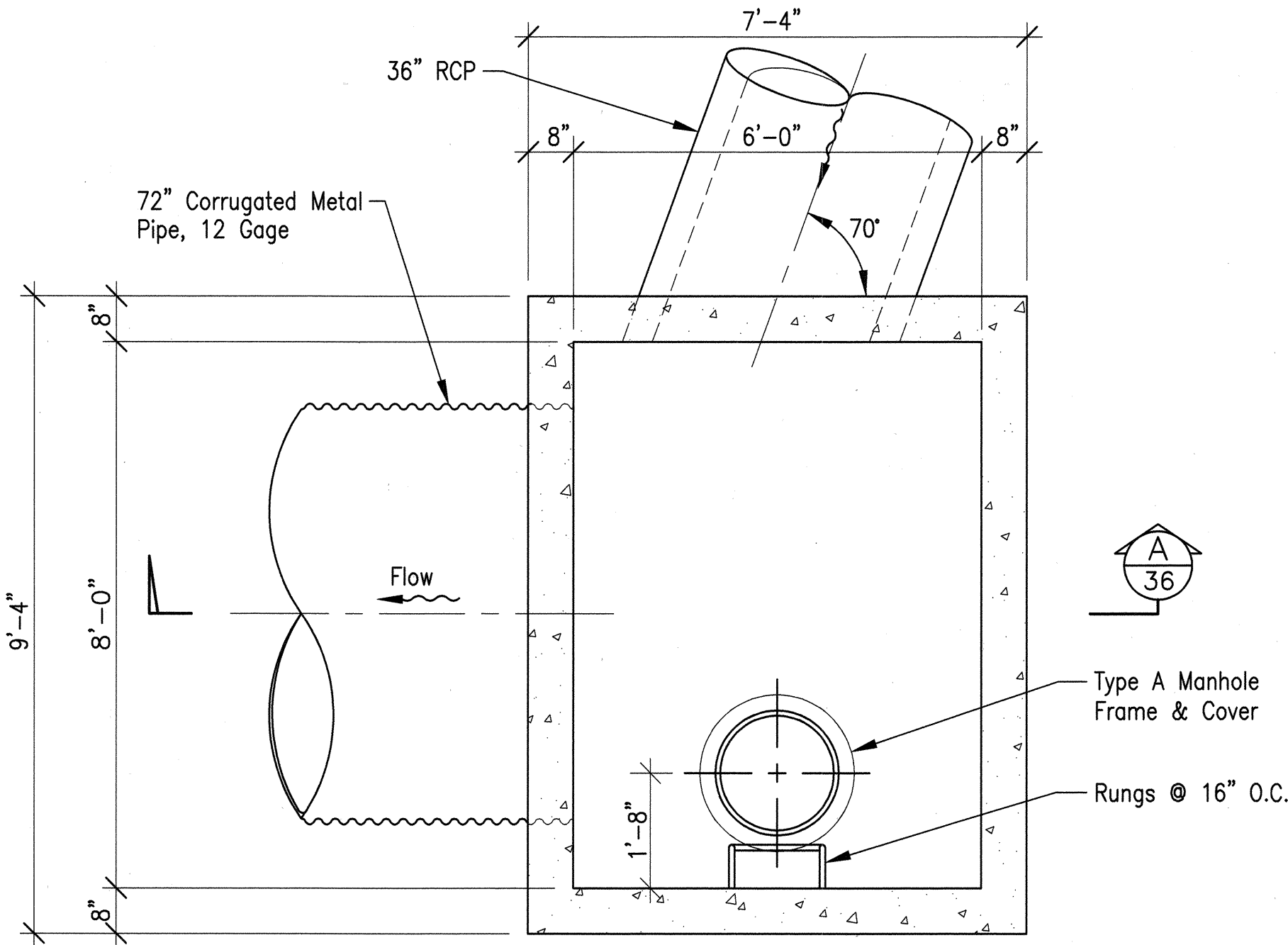
DATE: _____

SHEET NO. 3 OF 7 SHEETS

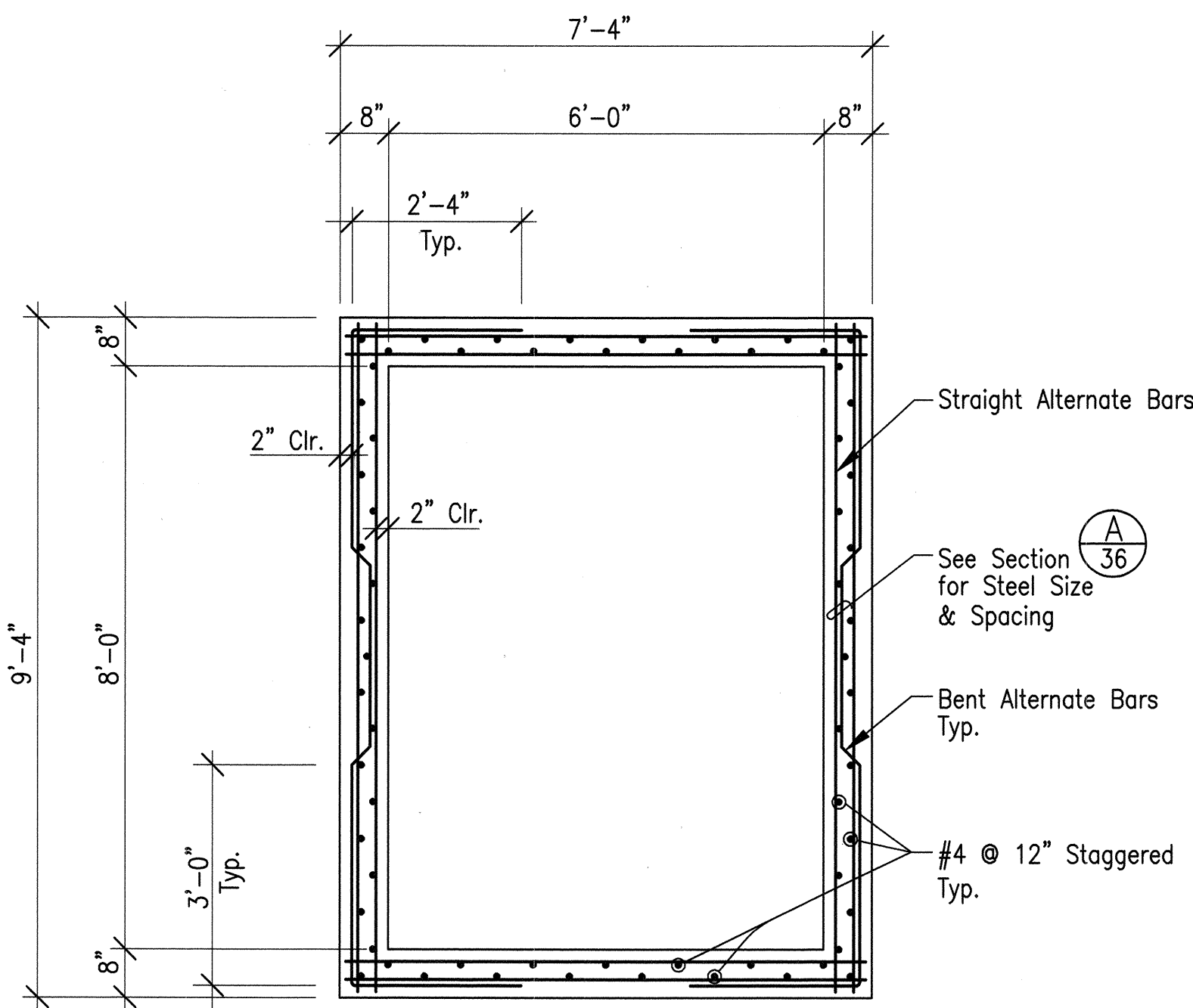


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UNDER MY SUPERVISION.
Stanley J. Shimabukuro
SHIMABUKURO, ENDO & YOSHIZAKI, INC.
1126 12th Avenue
Honolulu, Hawaii 96816

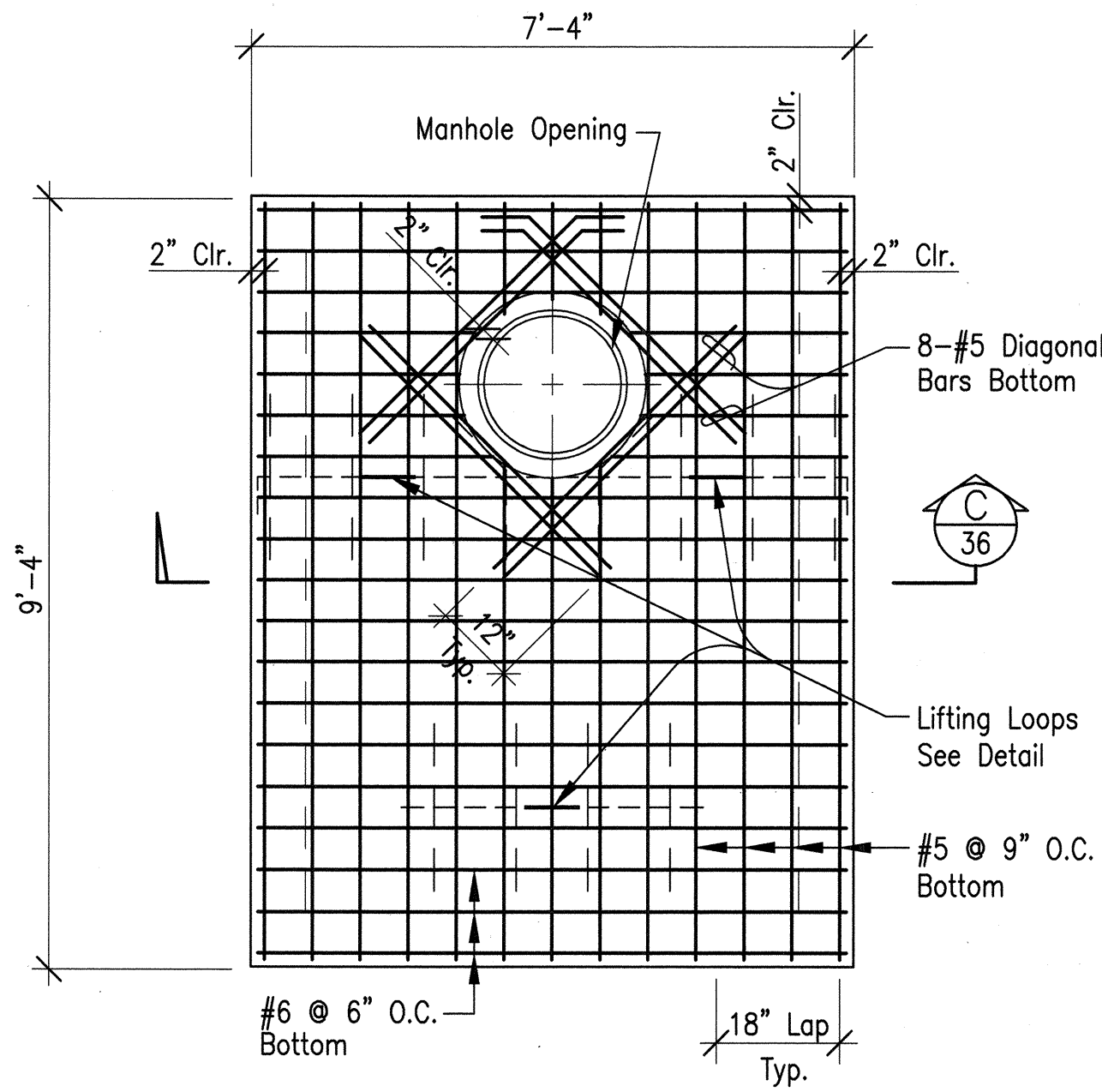
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50E-01-98	1998	36	79



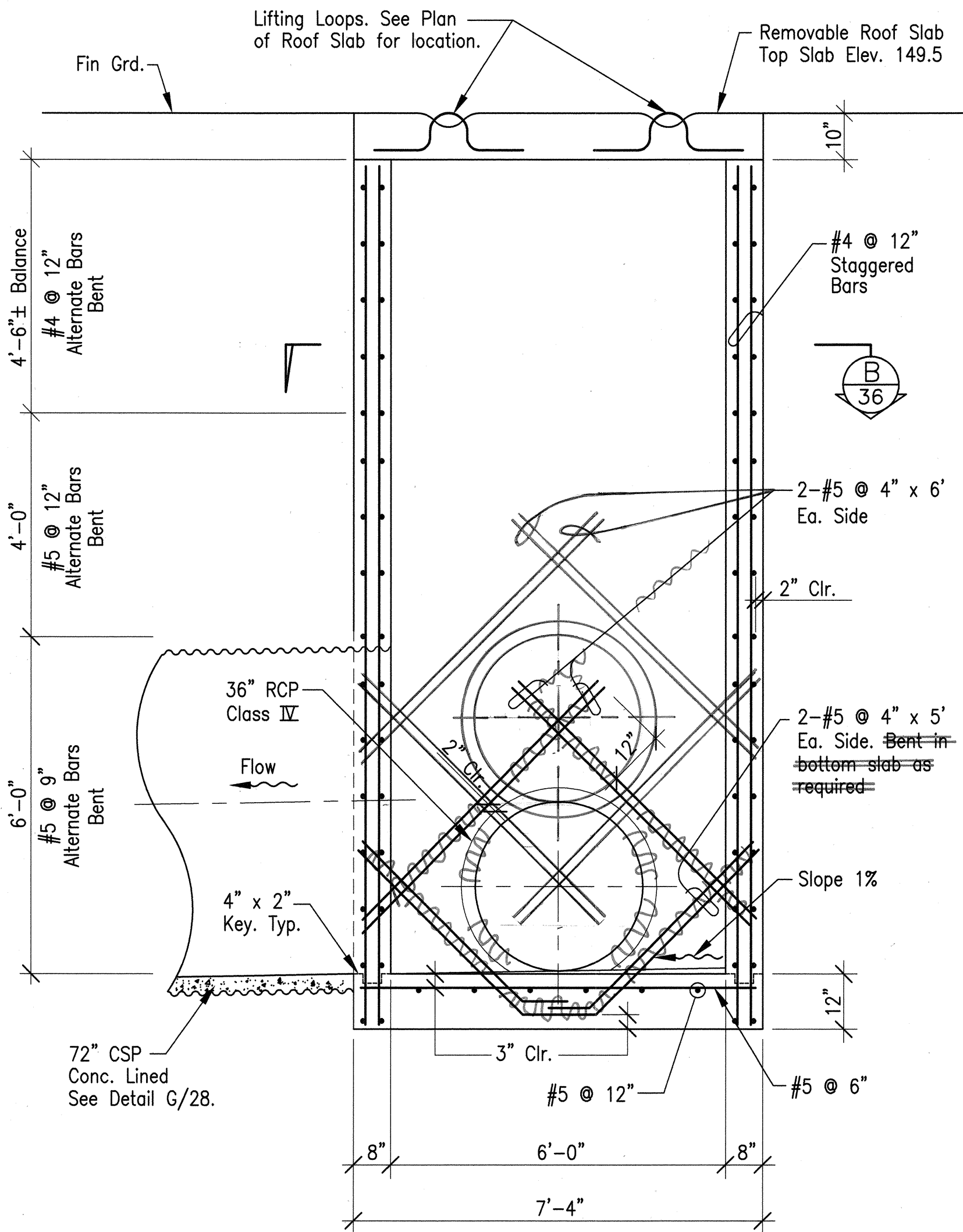
STA. 5+20. O/S 115' Lt.
PLAN-SPECIAL MANHOLE
 Scale: 1/2"=1'-0"



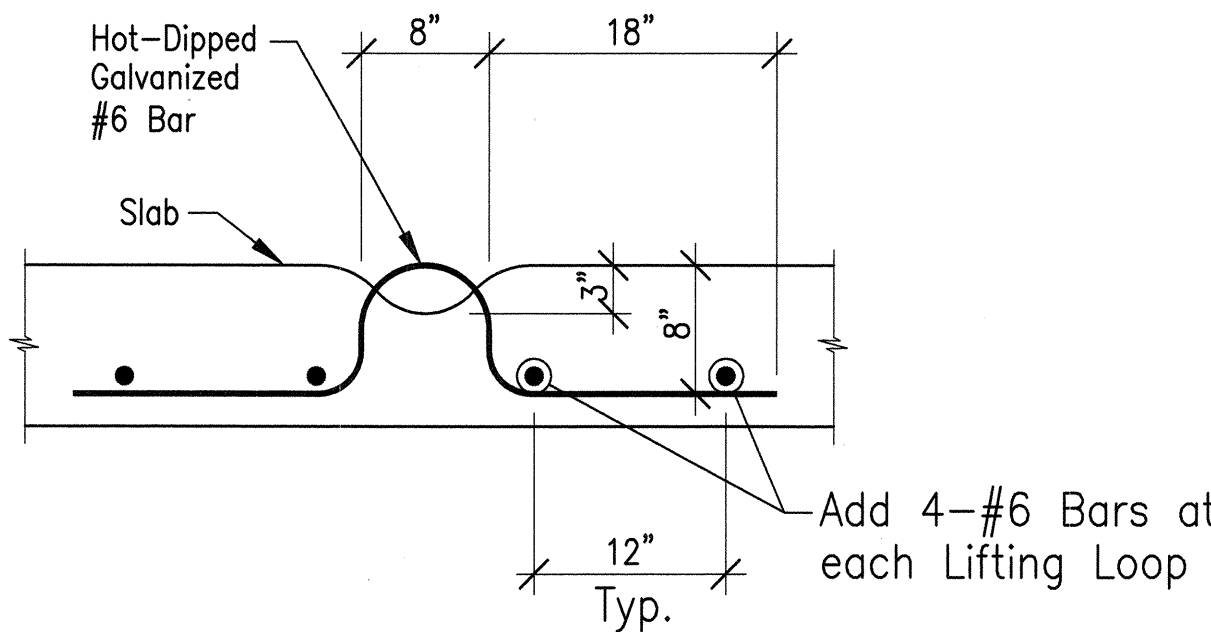
SECTION B
 Scale: 1/2"=1'-0"



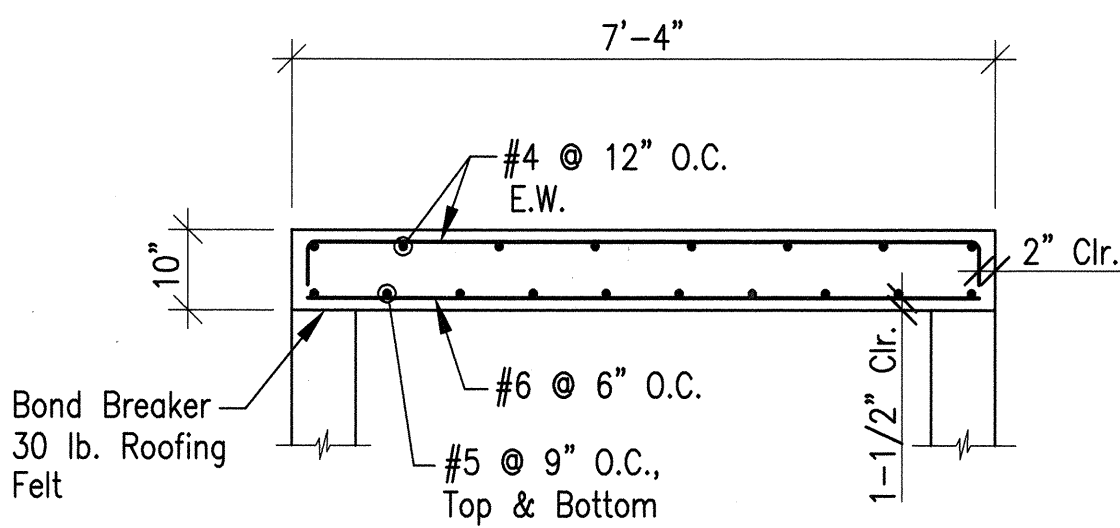
PLAN-ROOF SLAB
 Scale: 1/2"=1'-0"



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



LIFTING LOOP
 Scale: 1"=1'-0"



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

DATE	_____
DESIGNED BY	_____
CHECKED BY	_____
NOTED BY	_____
QUANTITIES BY	_____
DESIGNED BY	_____
TRACED BY	_____
DATE	_____

STANLEY S. SHIMABUKURO
 LICENSED PROFESSIONAL ENGINEER
 No. 1522-S
 HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION.
Stanley S. Shimabukuro
 SHIMABUKURO, ENDO & YOSHIKAWA, INC.
 1126 12th Avenue
 Honolulu, Hawaii 96816

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

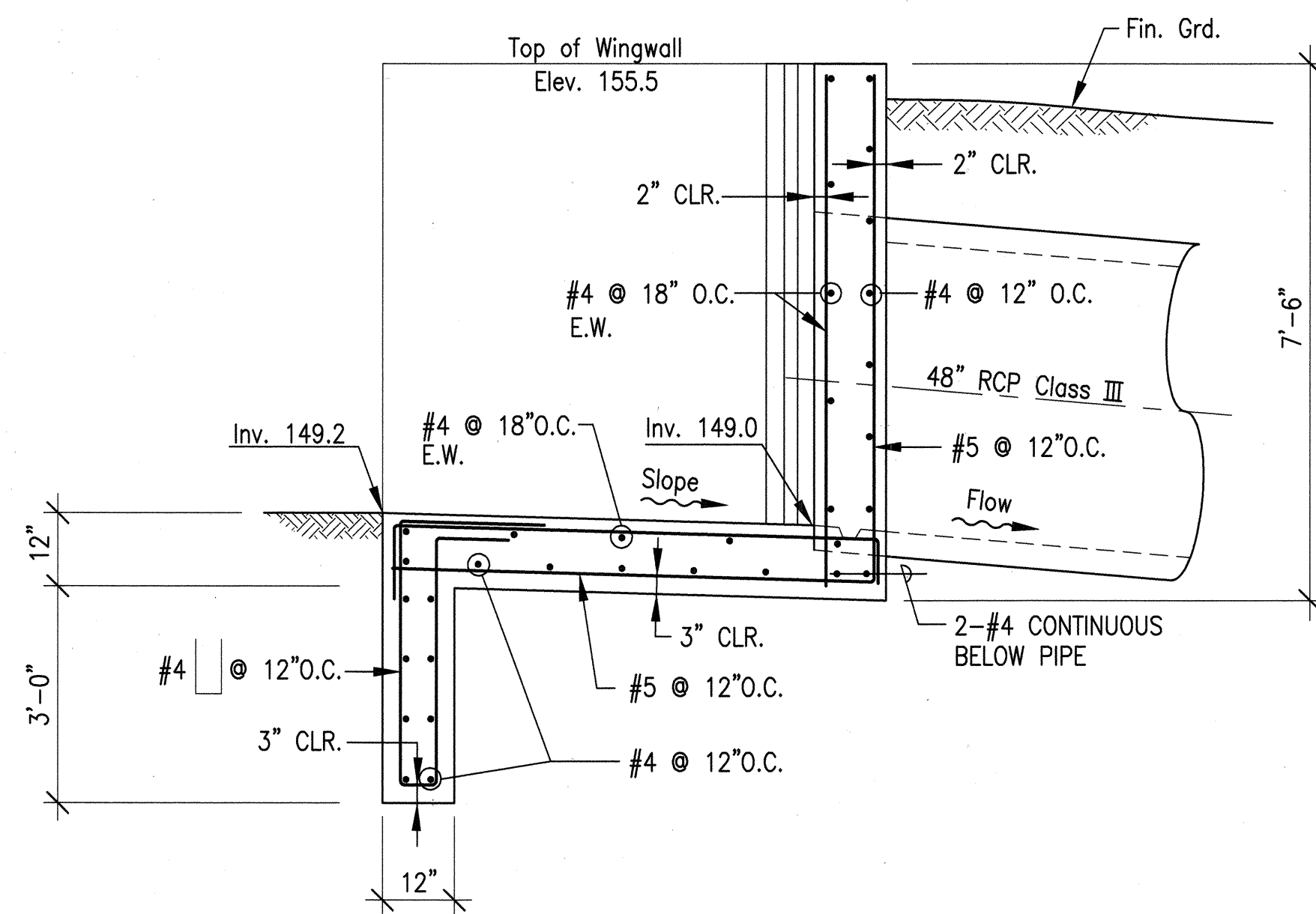
SUMP RELOCATION DETAILS

KAUMUALII HIGHWAY, KUHIO HIGHWAY &
 RICE STREET INTERSECTION IMPROVEMENTS
 PROJECT NO. 50E-01-98

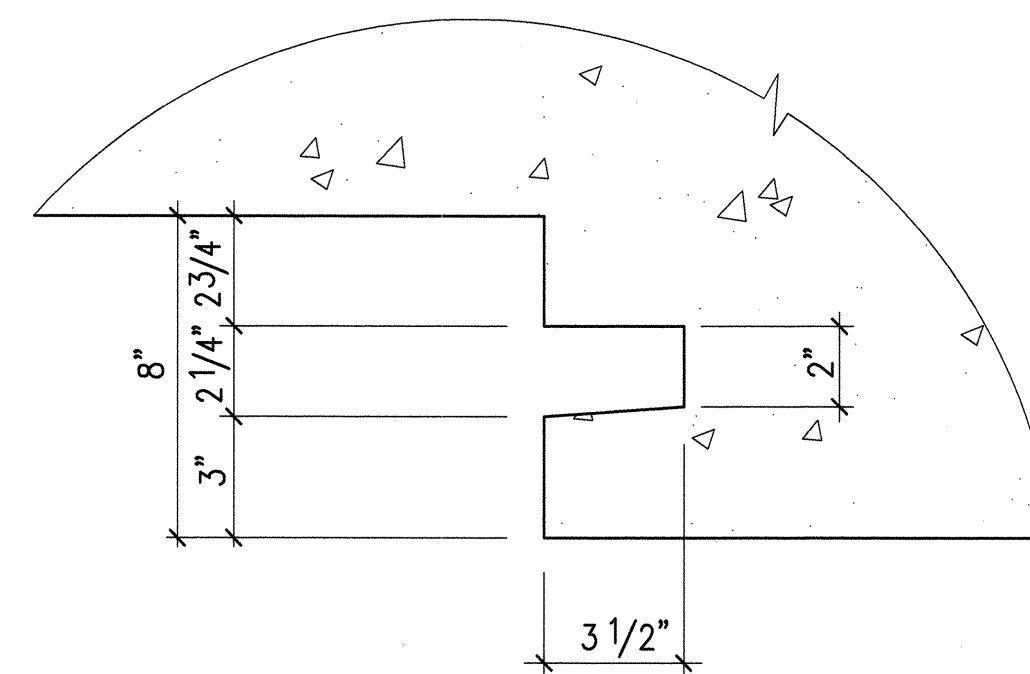
SCALE: AS NOTED DATE: _____
SHEET NO. 4 OF 7 SHEETS

"AS-BUILT"

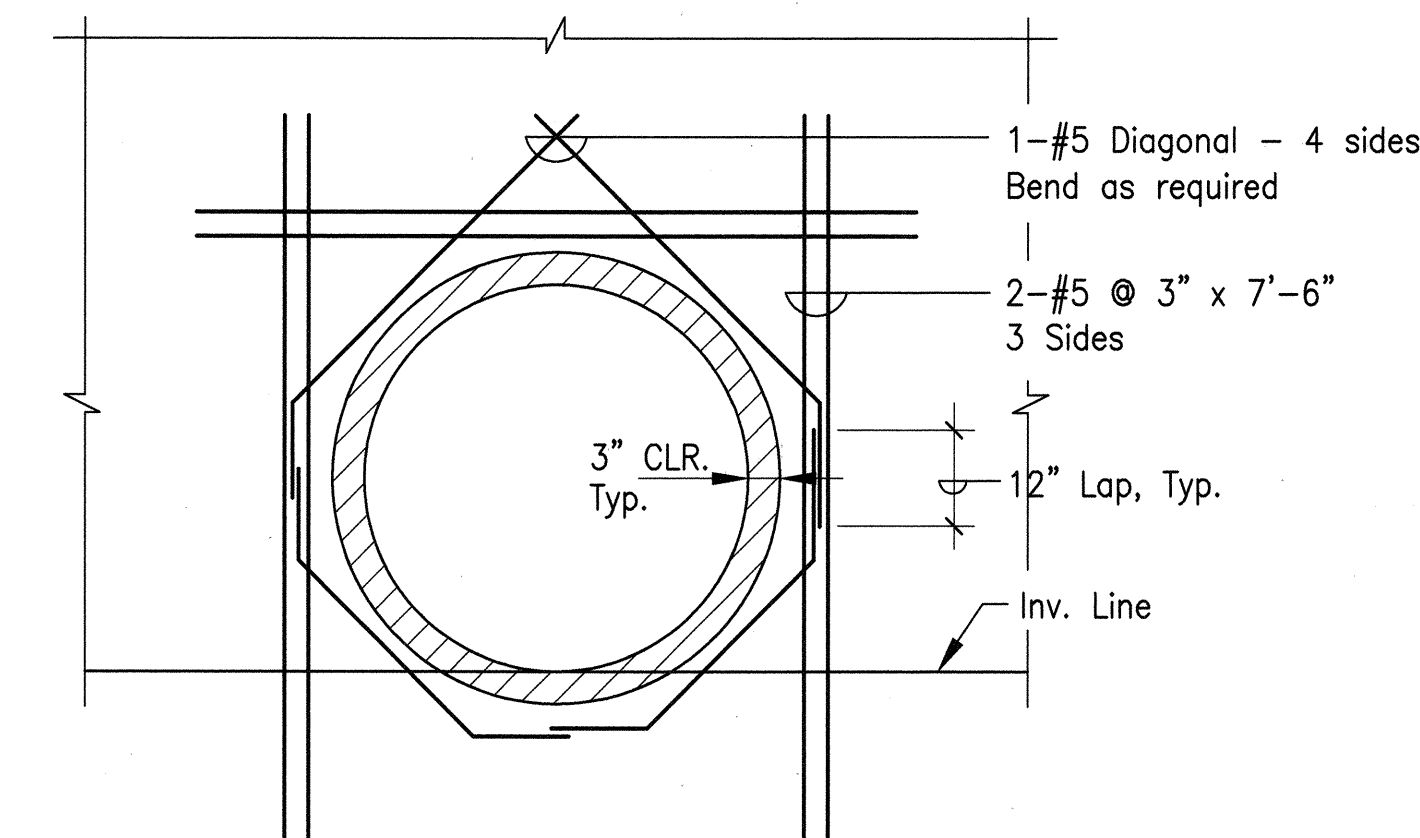
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50E-01-98	1998	37	79



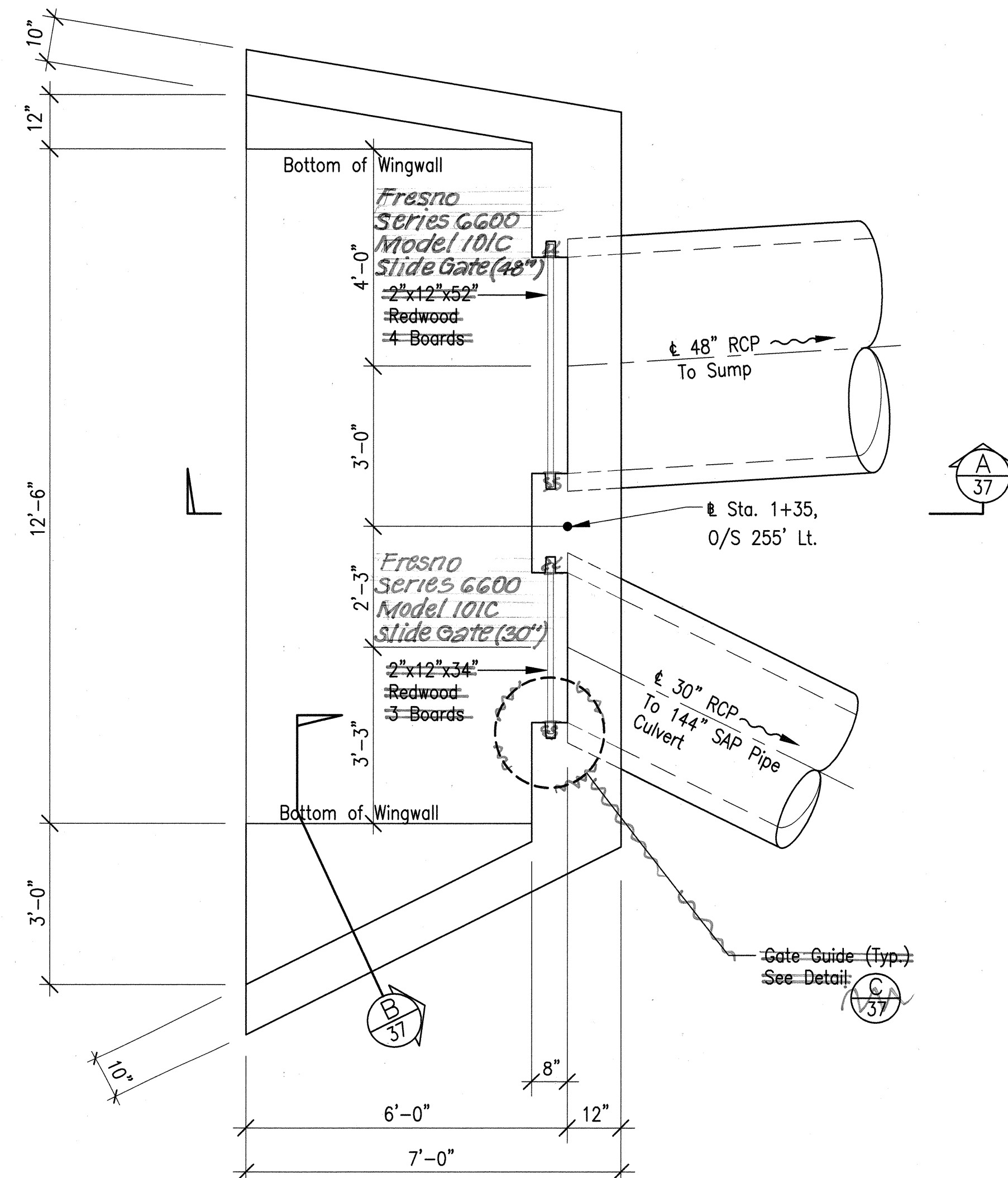
SECTION A
37



TYP. REMOVABLE CONC. GATE GUIDE
NOT TO SCALE



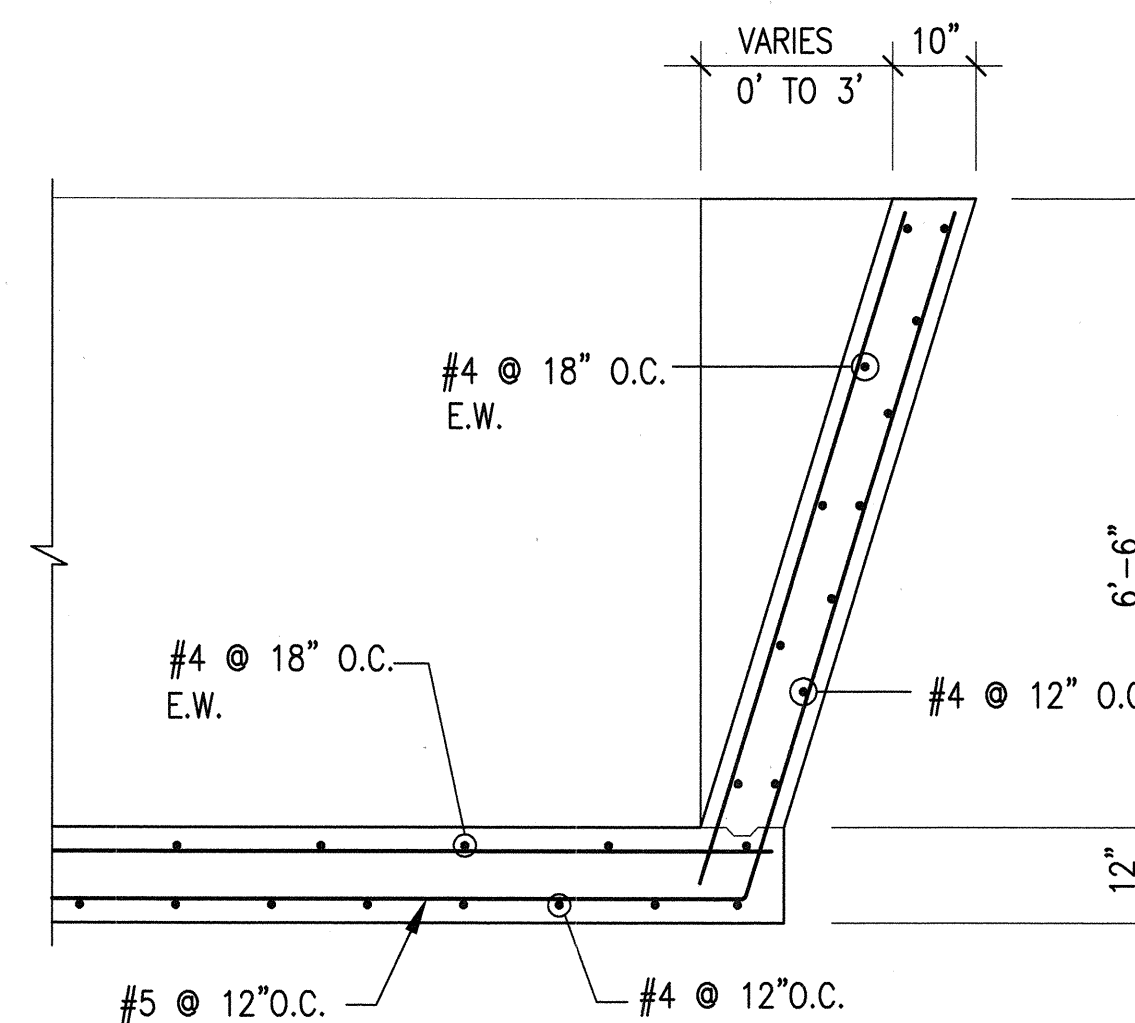
TYPICAL PIPE OPENING REINFORCEMENT
NOT TO SCALE



Sta. 1+35, O/S 255' LT.

PLAN-CONCRETE INLET

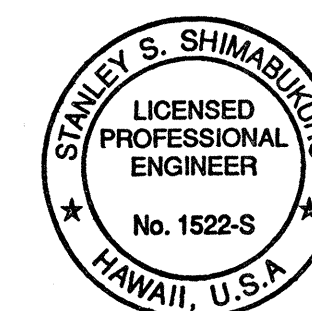
Scale: 1/2"=1'-0"



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

Note:

- The following shall not be measured separately for payment but shall be considered incidental to the various contract items:
 - Redwood



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Stanley S. Shimabukuro
 SHIMABUKURO, ENDO & YOSHIKAZAKI, INC.
 1126 12th Avenue
 Honolulu, Hawaii 96816

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**SUMP RELOCATION
DETAILS**

KAUMUALII HIGHWAY, KUHIO HIGHWAY &
RICE STREET INTERSECTION IMPROVEMENTS
PROJECT NO. 50E-01-98

SCALE: AS NOTED DATE:
SHEET NO. 5 OF 7 SHEETS

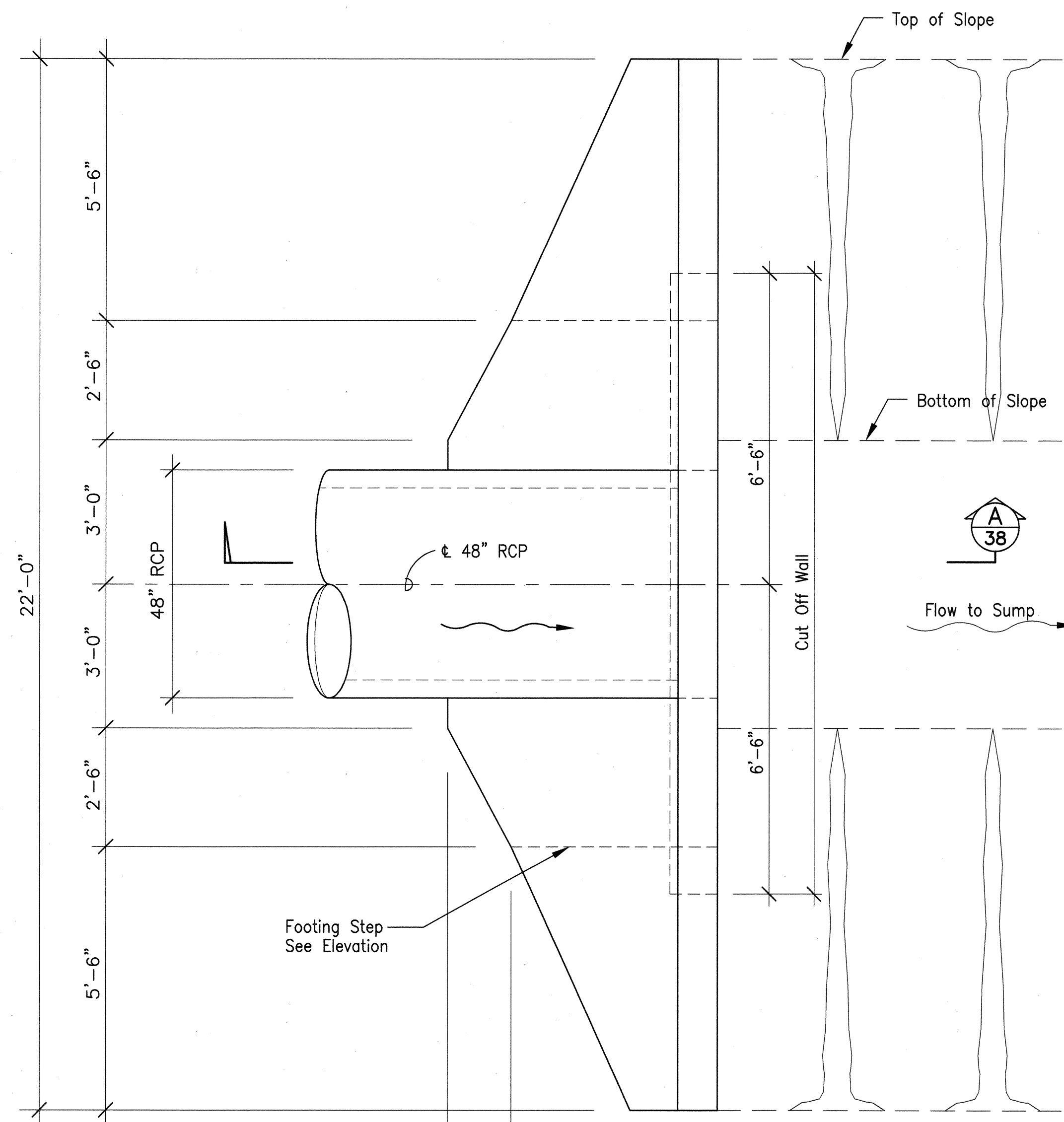
37

"AS-BUILT"

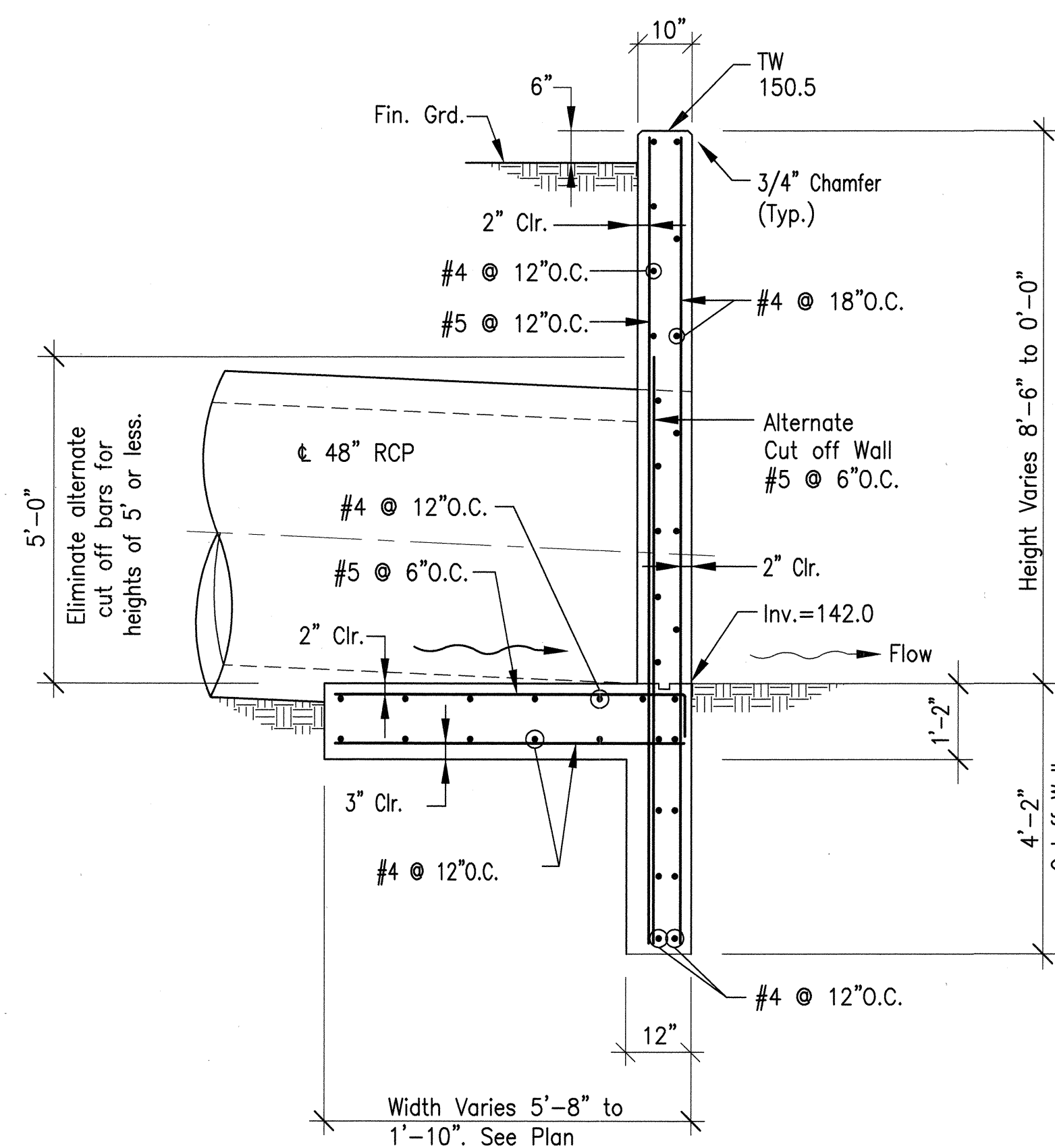
37

SURVEY PLOTTED	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN NOTE BOOK	No.

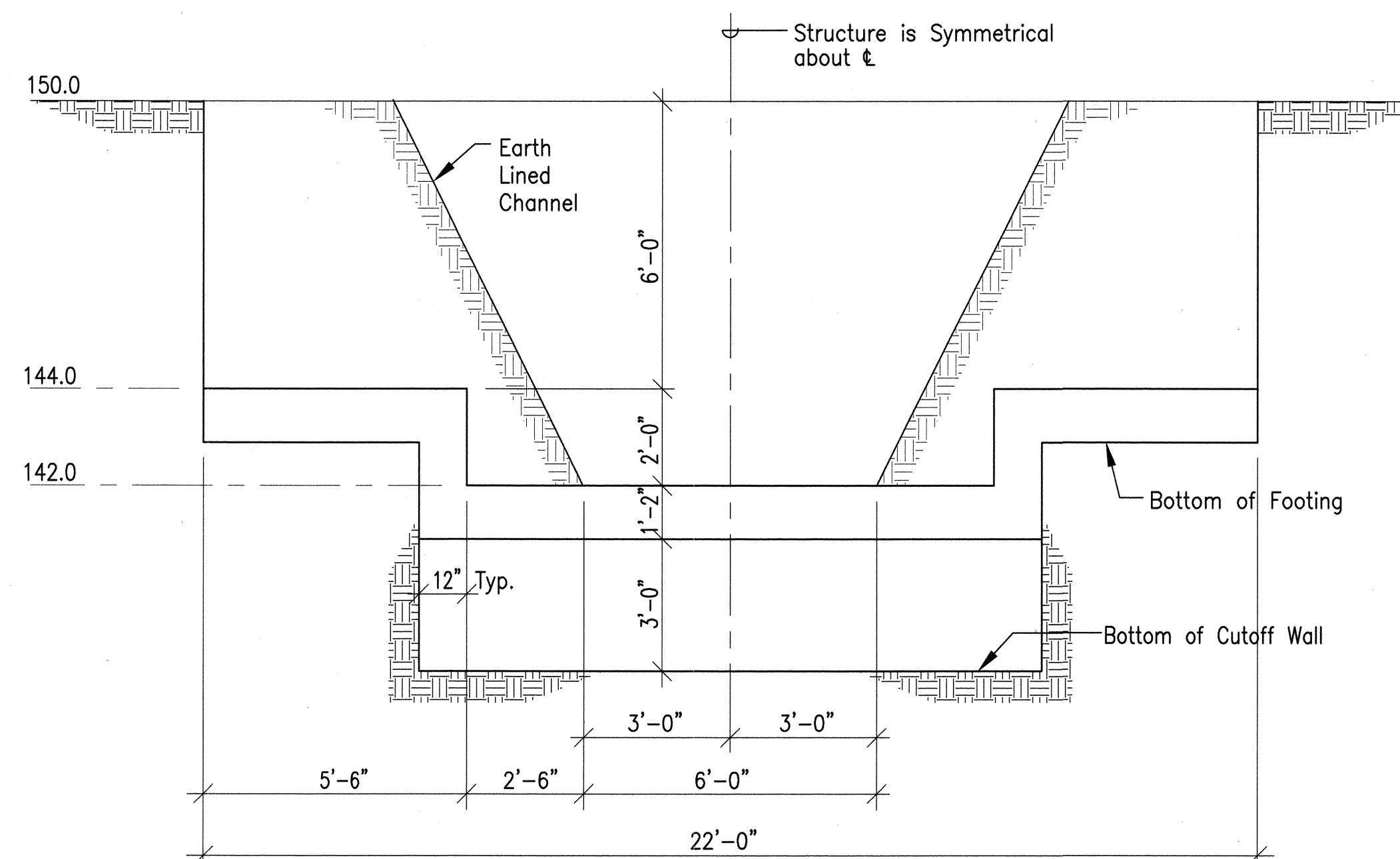
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	50E-01-98	1998	38	79



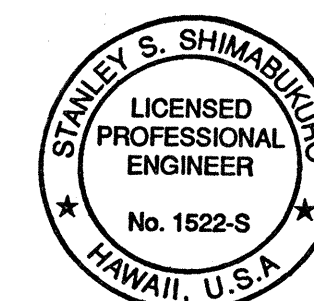
± STA. 3+15, o/s 180' Lt.
PLAN-OUTLET
 Scale: 1/2"=1'-0"



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



HEADWALL FOOTING ELEVATION
 Scale: 3/8"=1'-0"



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Stanley S. Shimabukuro
 SHIMABUKURO, ENDO & YOSHIZAKI, INC.
 1126 12th Avenue
 Honolulu, Hawaii 96816

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
SUMP RELOCATION
DETAILS
 KAUMUALII HIGHWAY, KUHIO HIGHWAY &
 RICE STREET INTERSECTION IMPROVEMENTS
 PROJECT NO. 50E-01-98
 SCALE: AS NOTED DATE:
SHEET NO. 6 OF 7 SHEETS

