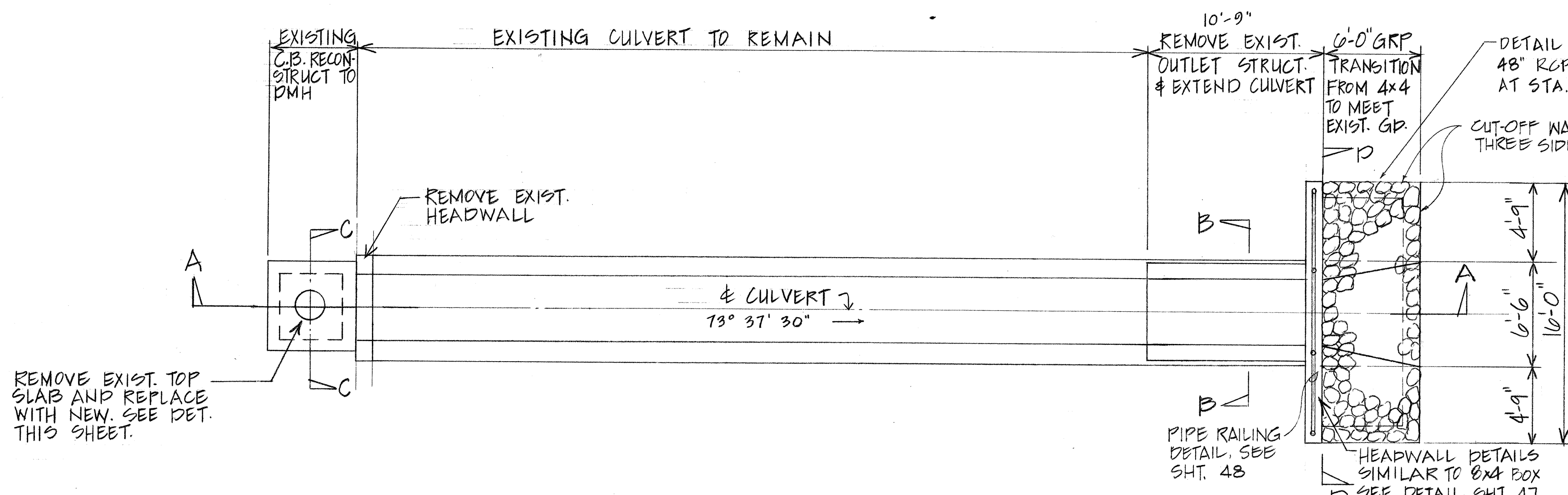
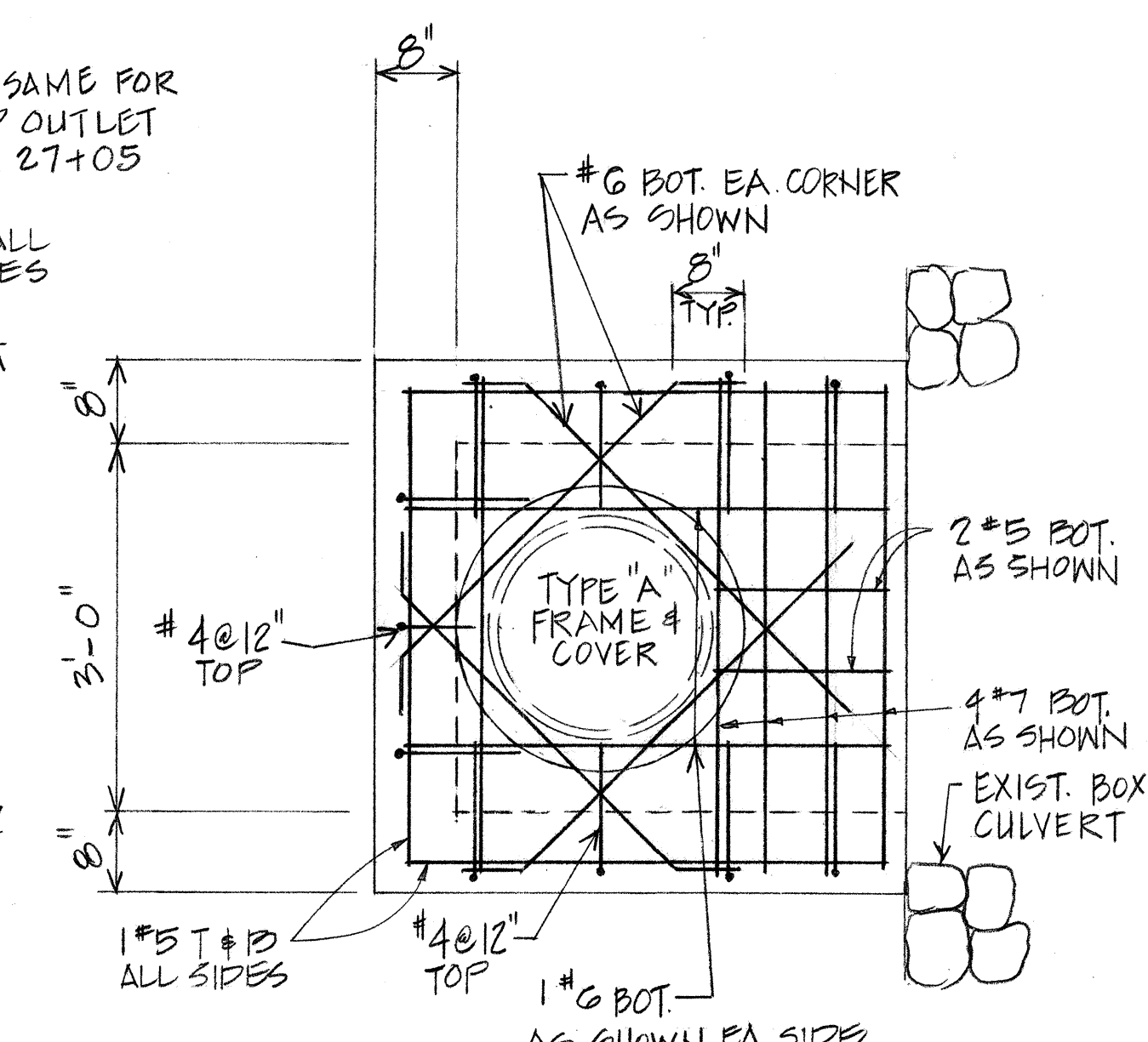


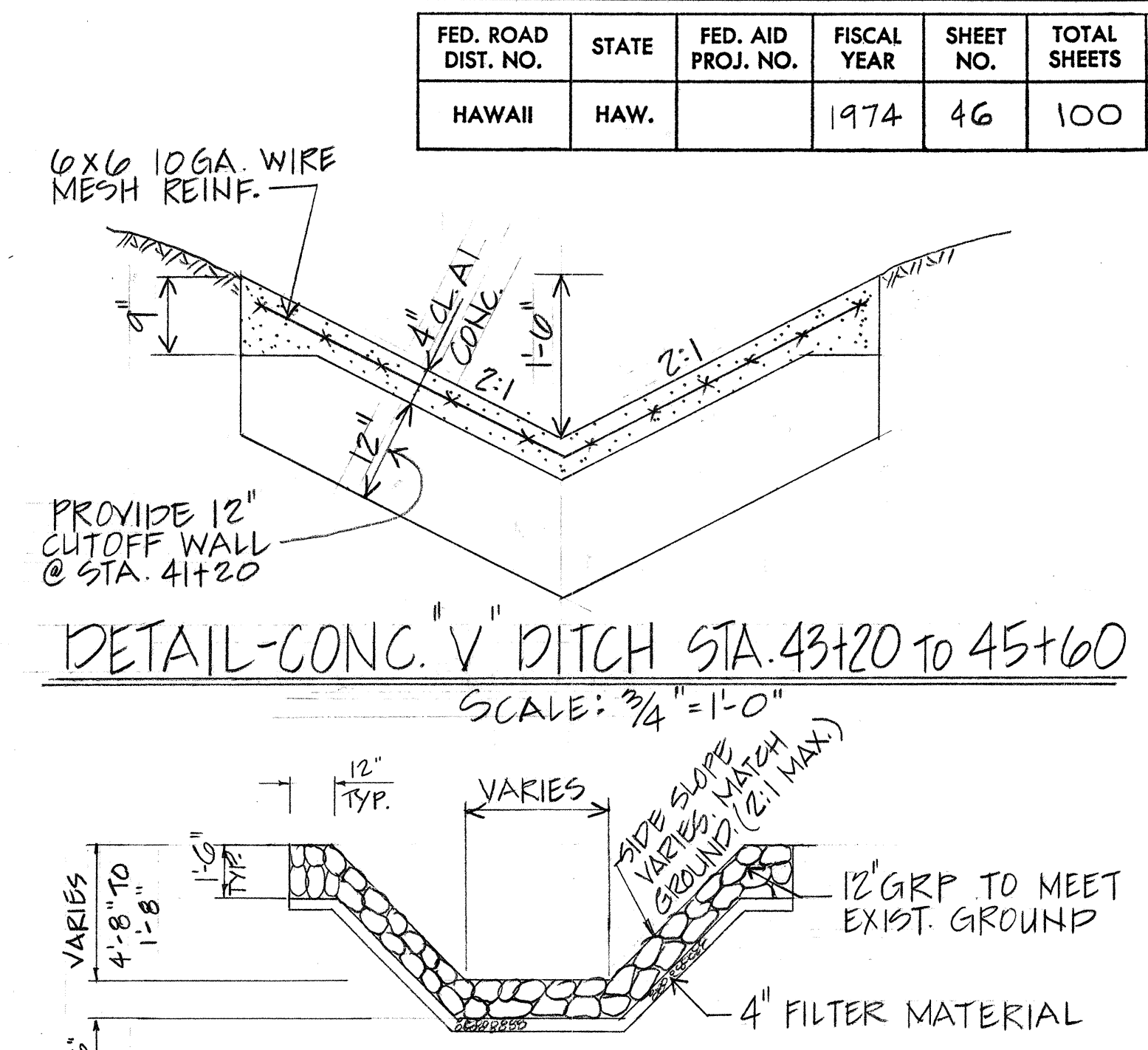
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1974	46	100



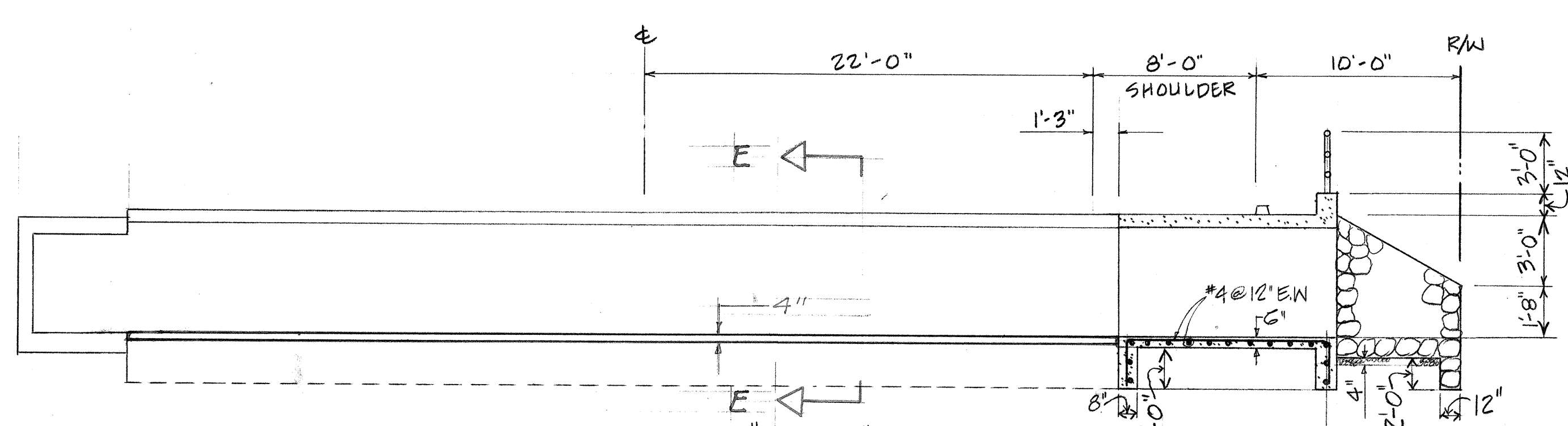
PLAN-CULVERT AT STA. 13+03
SCALE: 3/16"=1'-0"



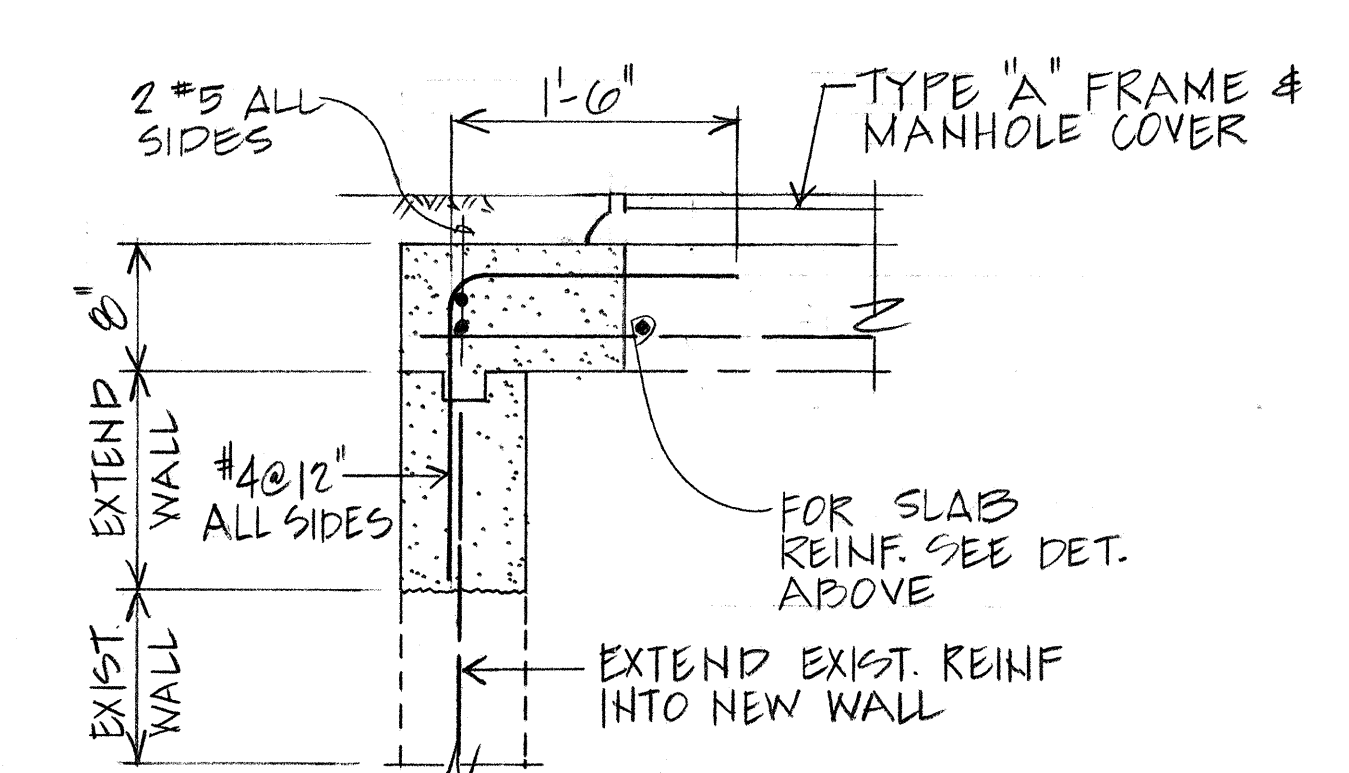
DETAIL-TOP SLAB FOR P.M.H.
SCALE: 3/4"=1'-0"



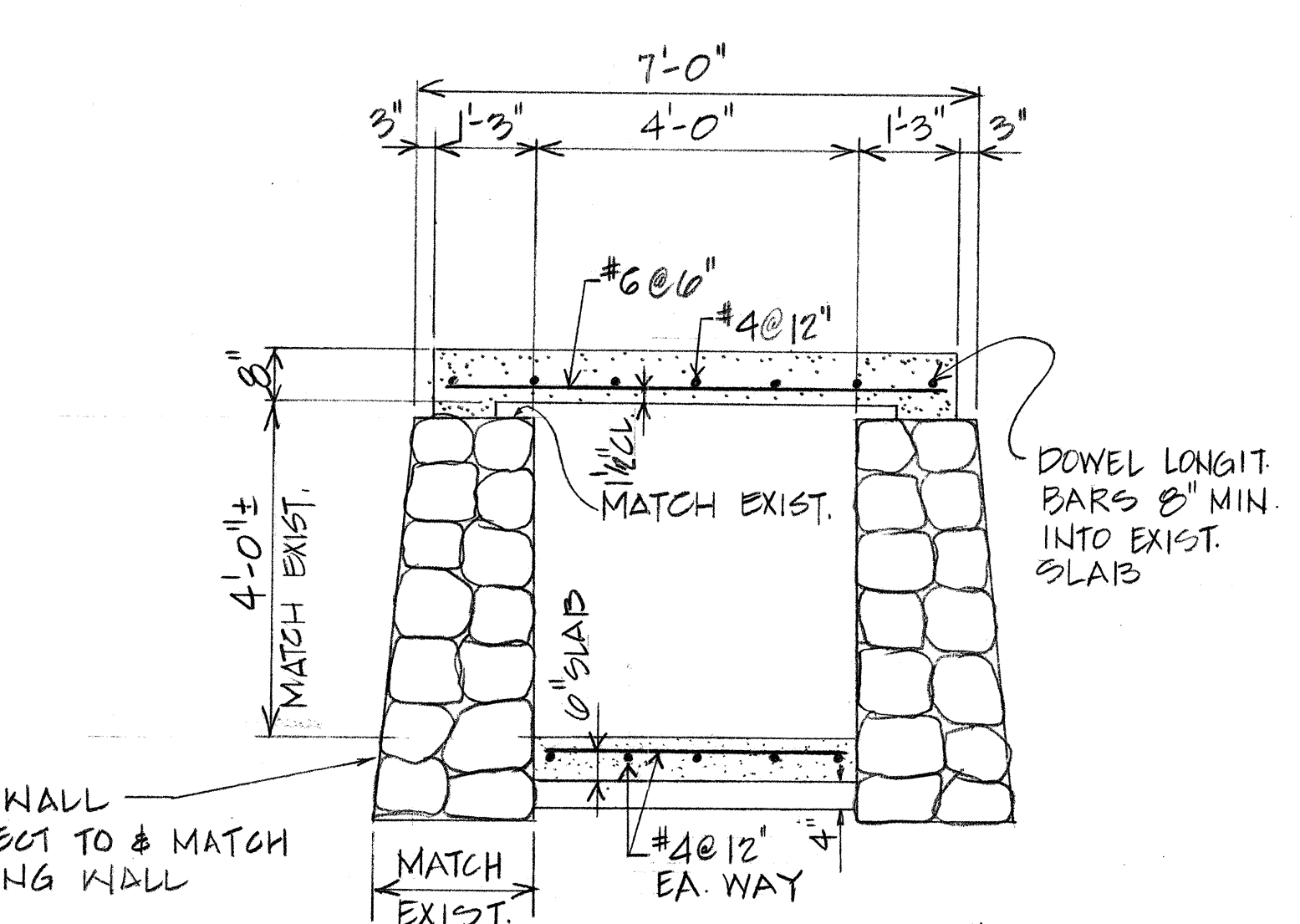
DETAIL-CONC. "V" DITCH STA. 43+20 TO 45+60
SCALE: 3/4"=1'-0"



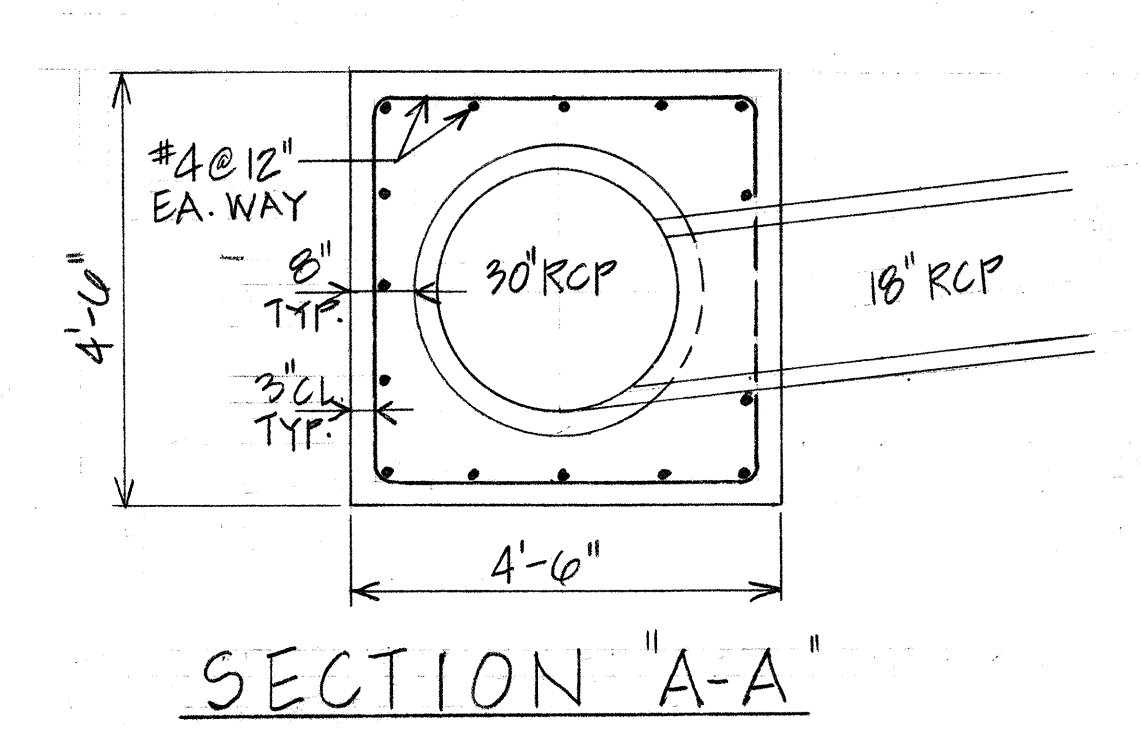
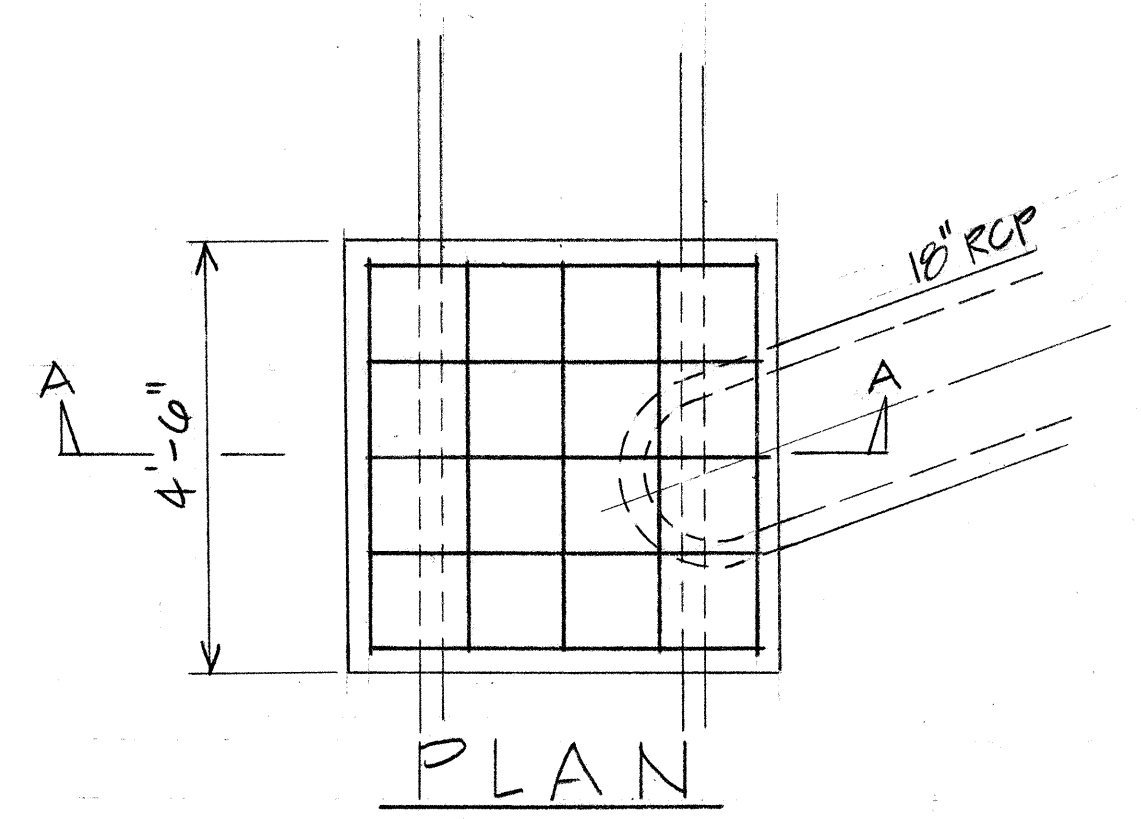
SECTION "A-A"
SCALE: 3/16"=1'-0"



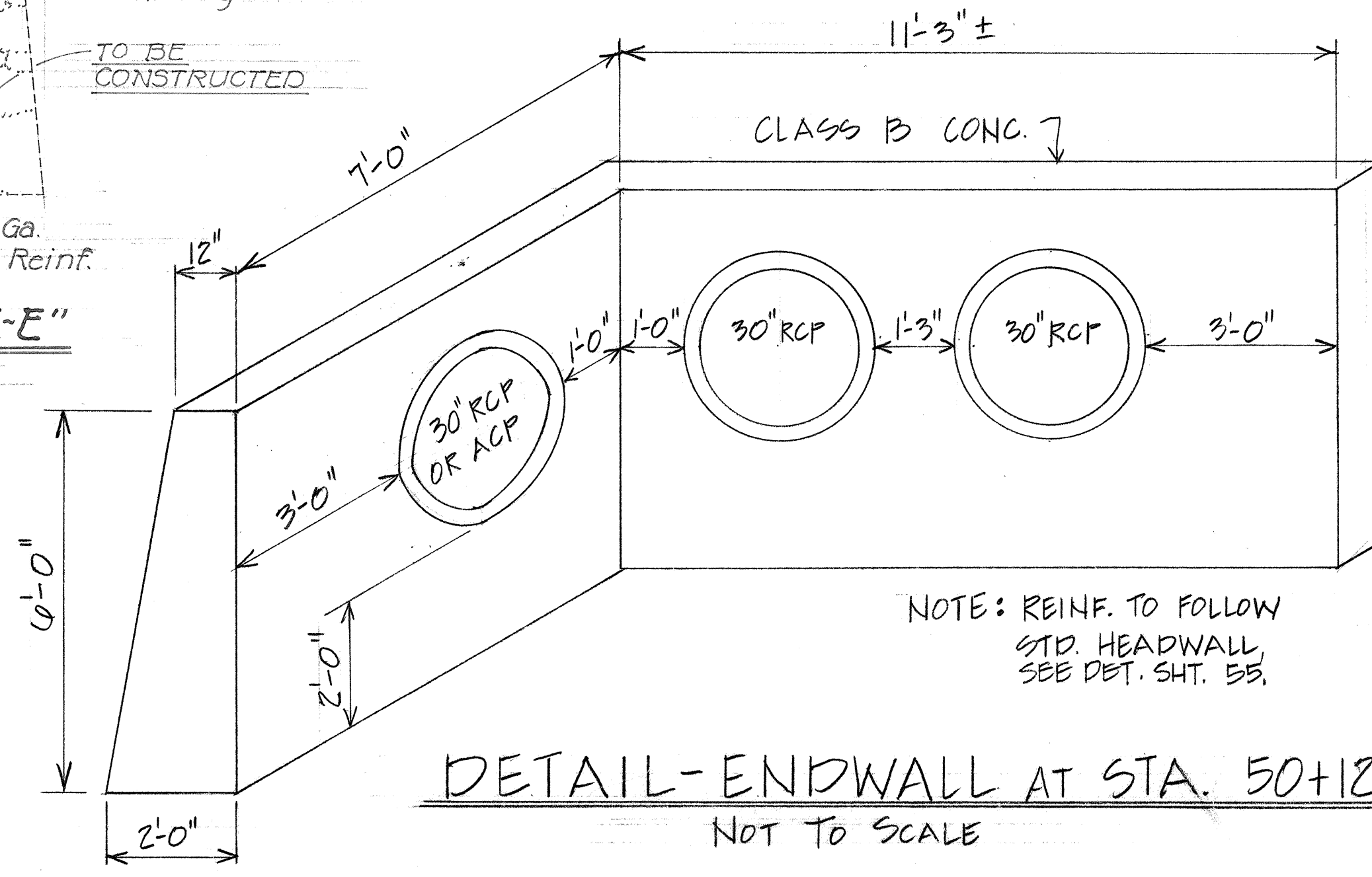
SECTION "C-C"
SCALE: 1"=1'-0"



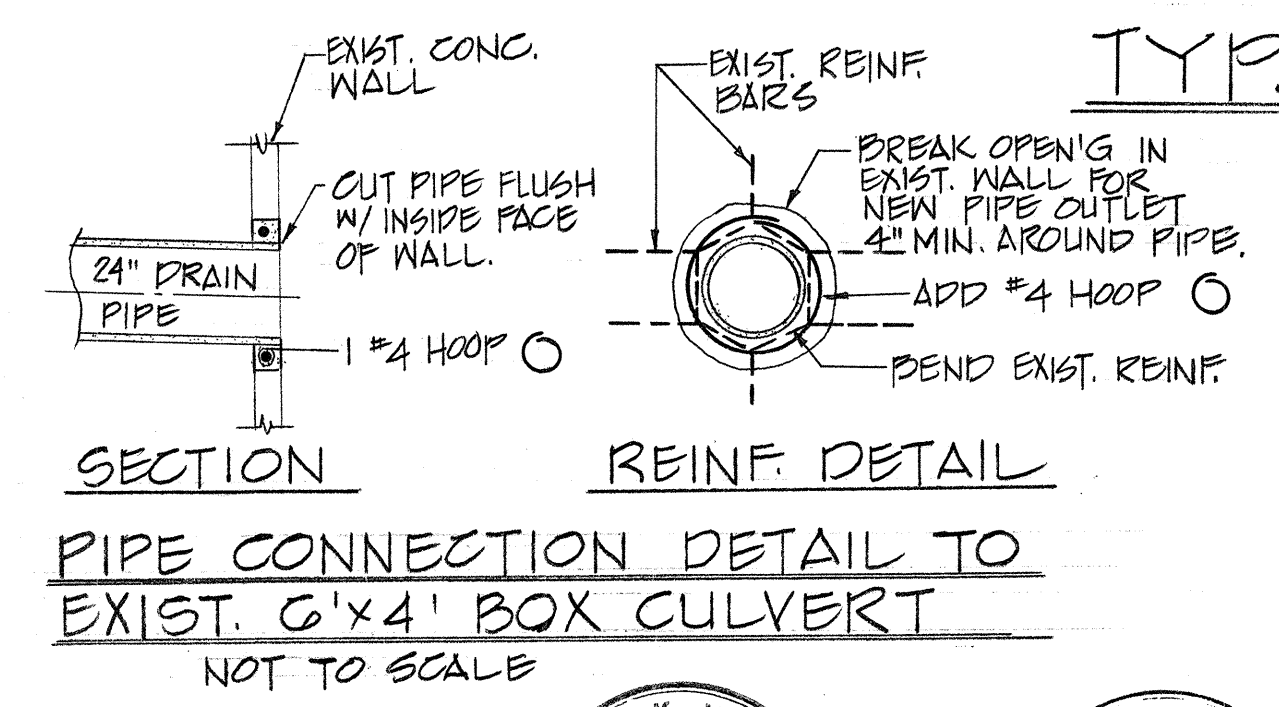
TYP. SECTION "B-B"
SCALE: 1/2"=1'-0"



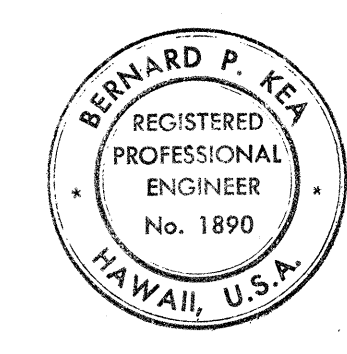
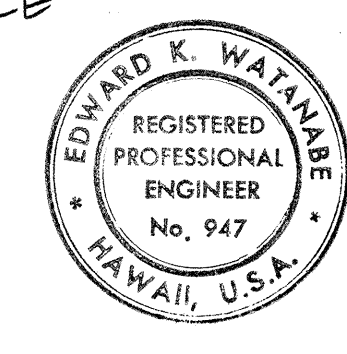
DETAIL-18" TO 30" CONNECTION
AT STA. 50+12 SCALE: 1/2"=1'-0"



DETAIL-ENDWALL AT STA. 50+12
NOT TO SCALE



PIPE CONNECTION DETAIL TO EXIST. 6'x4' BOX CULVERT
NOT TO SCALE



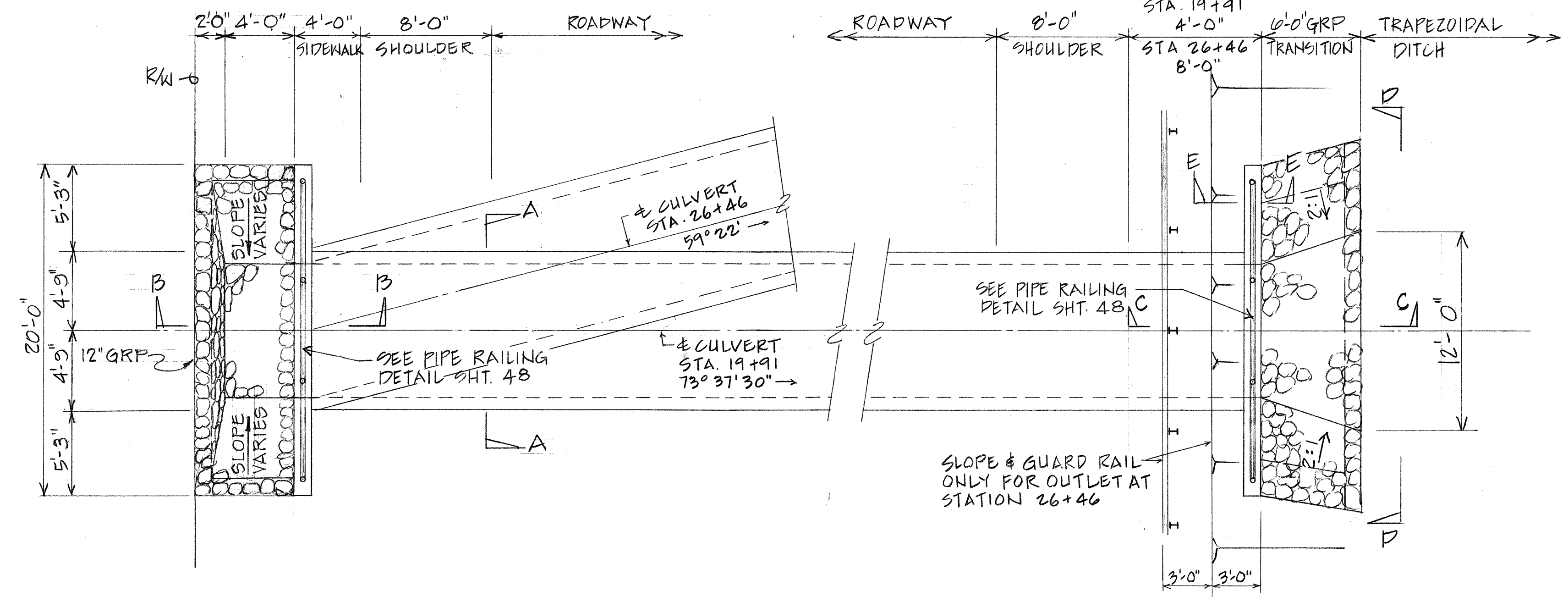
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPECIAL DRAINAGE DETAILS
FARRINGTON HIGHWAY WIDENING
PROJECT 93A-02-72
SCALE: AS SHOWN

SHEET No. 1 OF 3 SHEETS

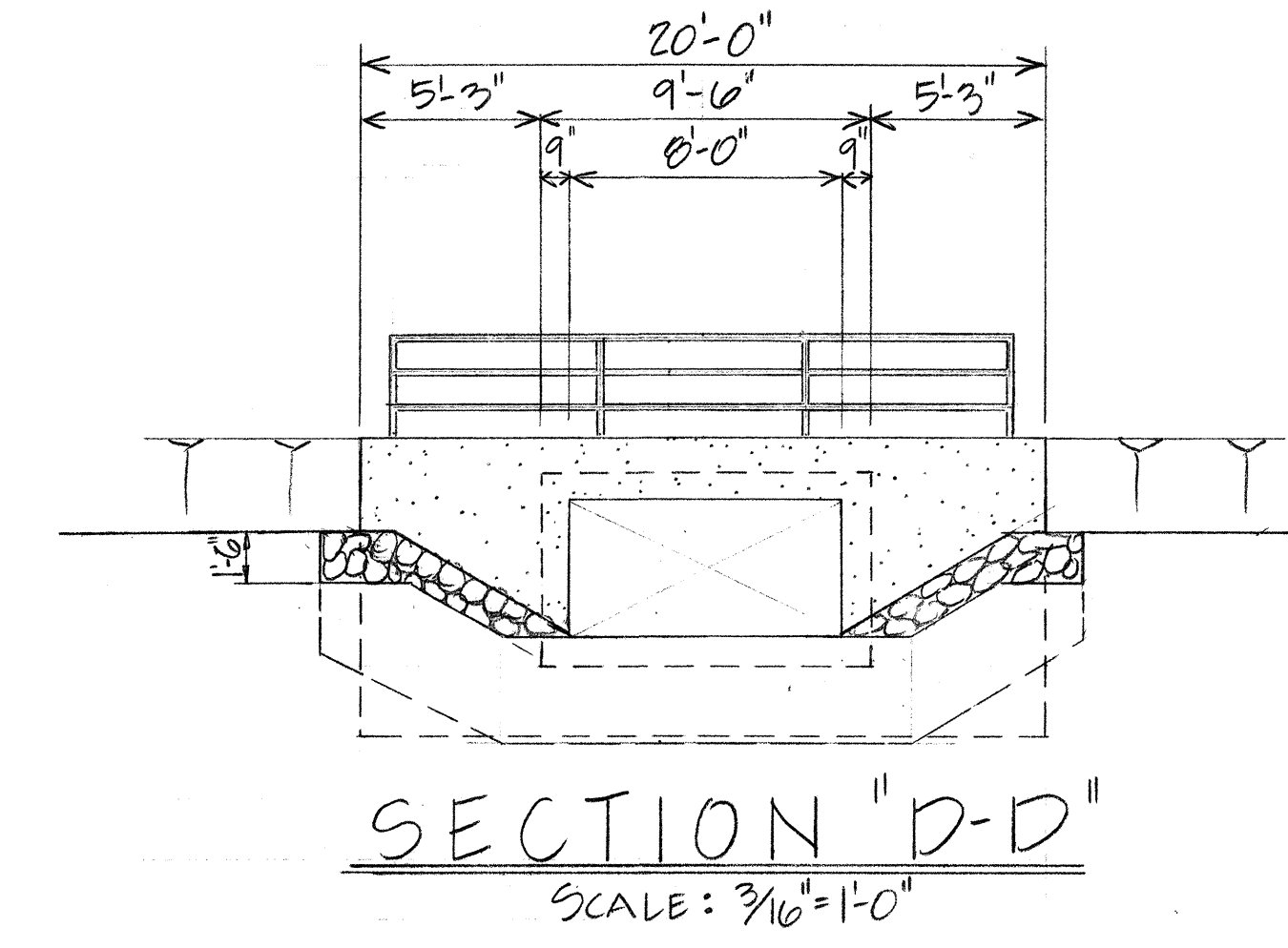
DATE	
DESIGNED BY	
TRACED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1974	47	100

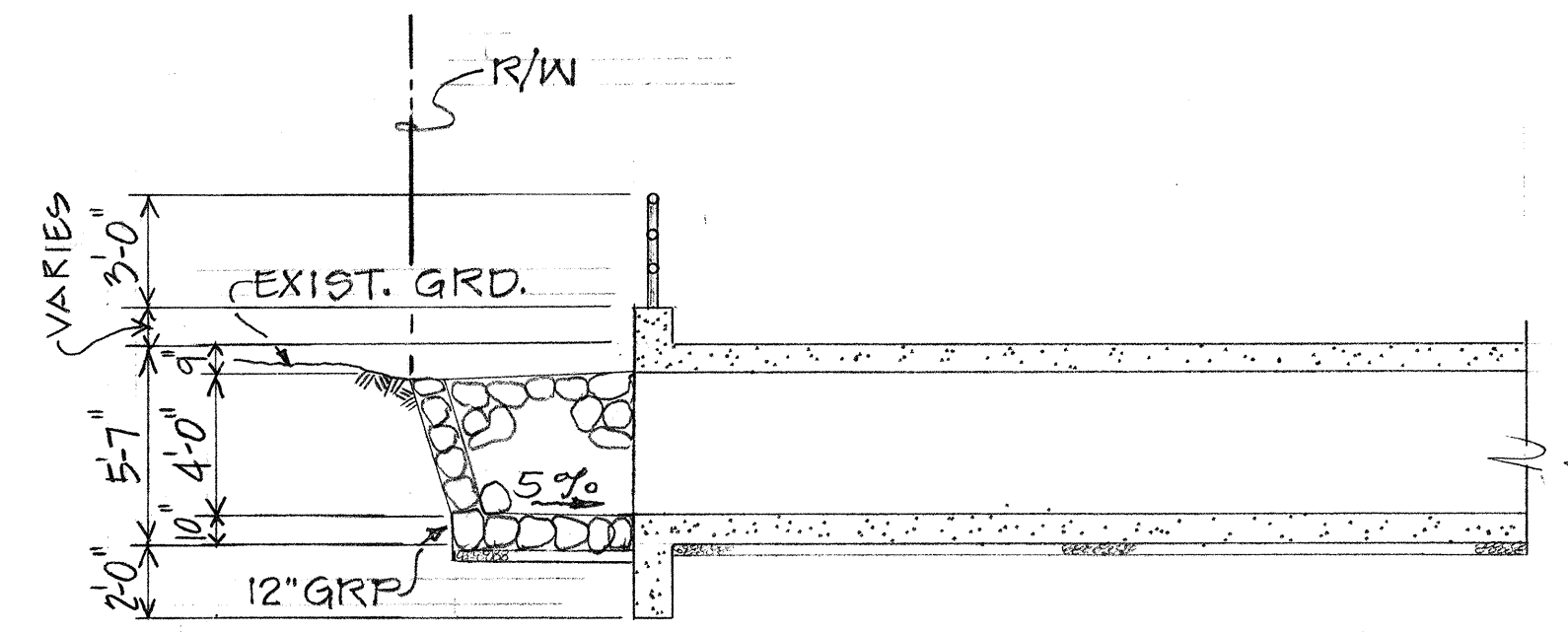
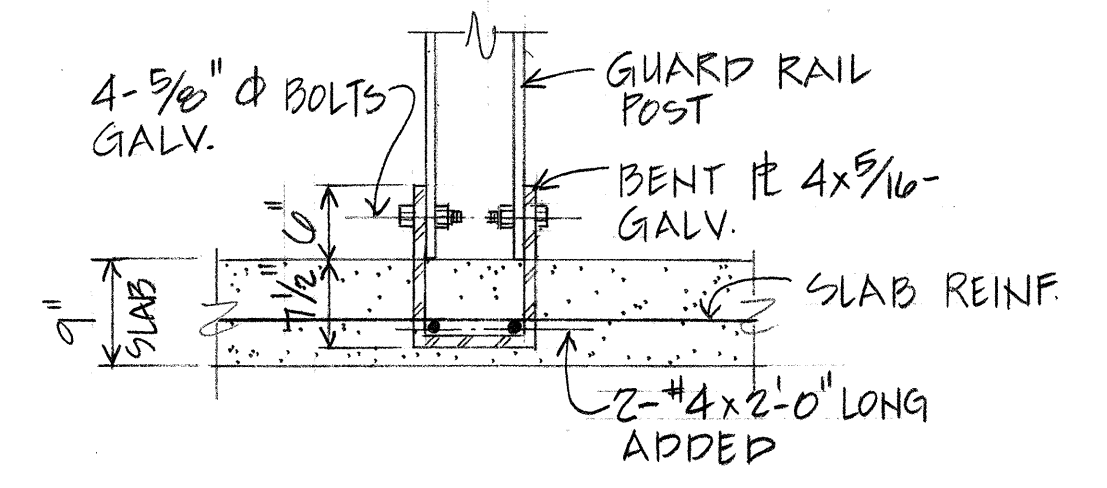


PART PLAN-CULVERT INLET
STA. 19+91 AND STA. 26+46
SCALE: 3/16"=1'-0"

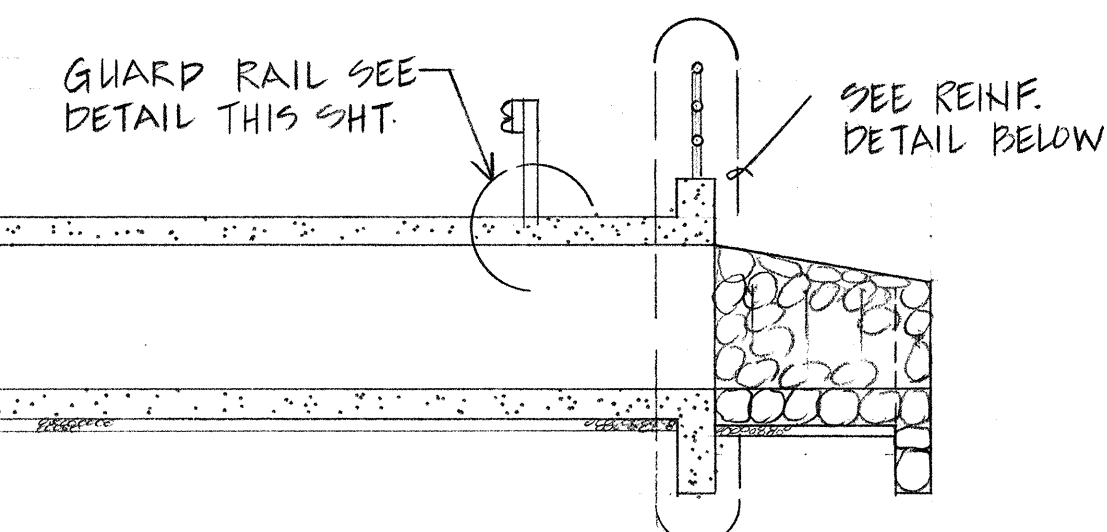
PART PLAN-CULVERT OUTLET
STA. 19+91 AND STA. 26+46
SCALE: 3/16"=1'-0"



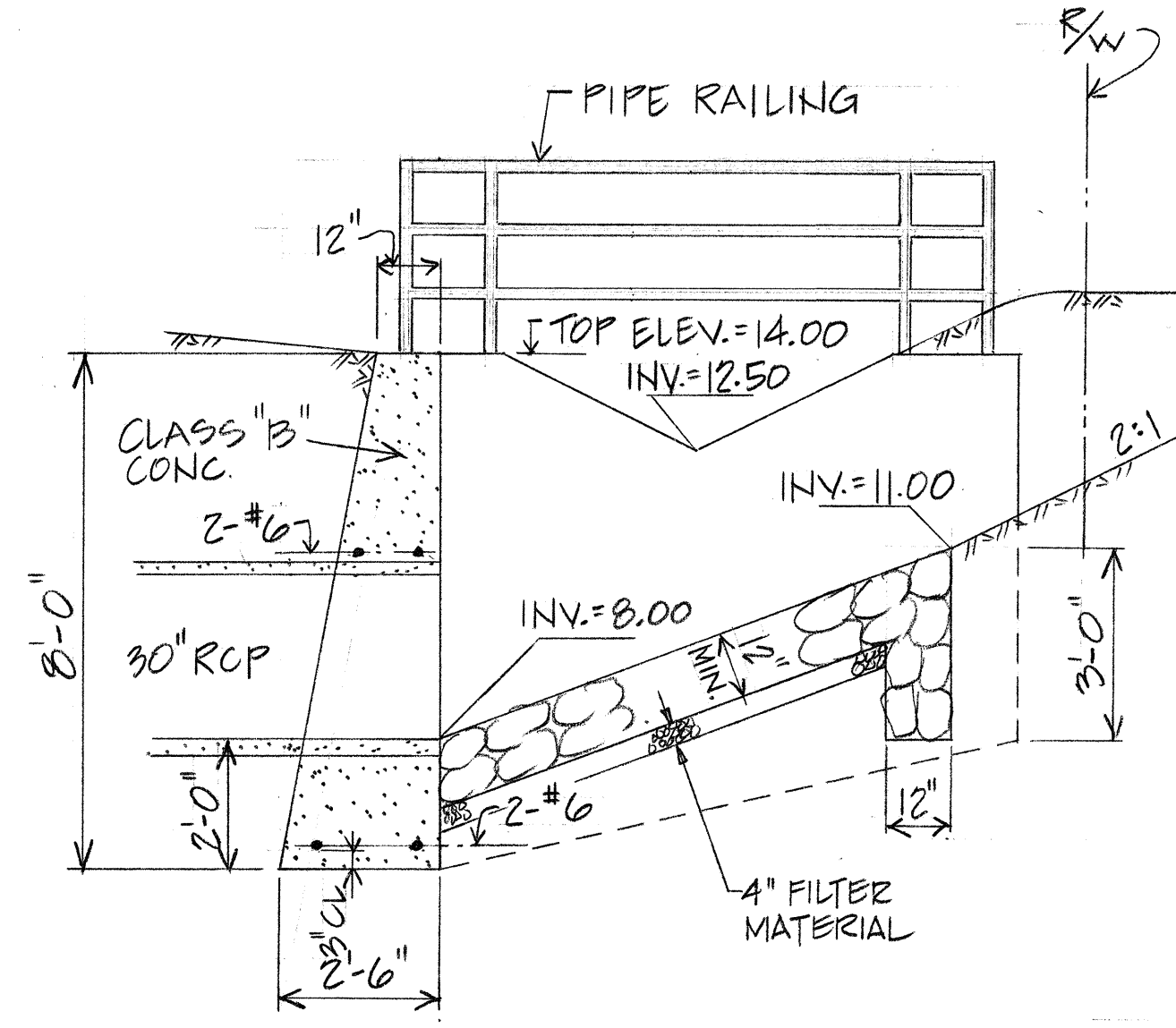
GUARD RAIL POST DETAIL
NOT TO SCALE



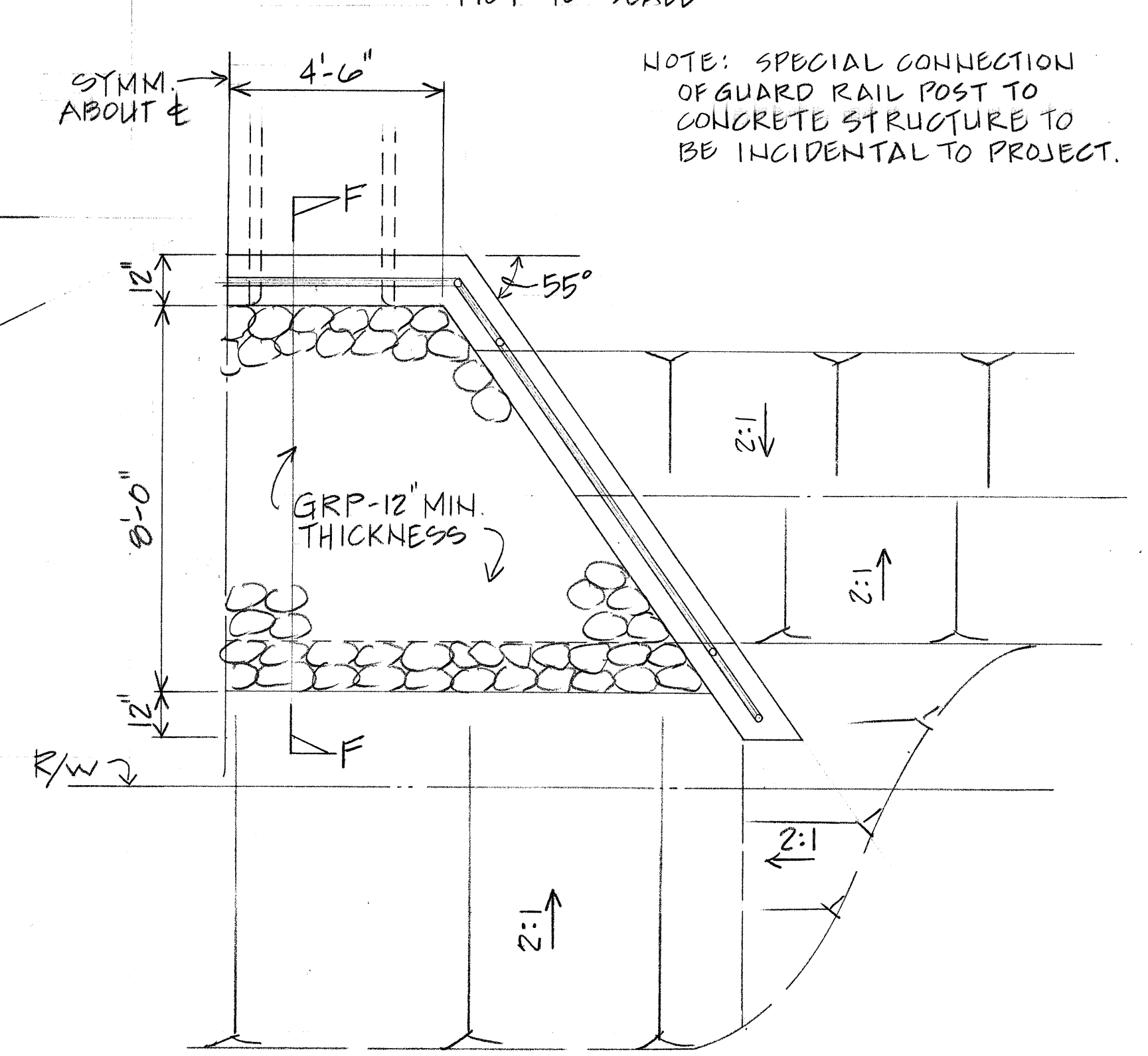
SECTION "B-B"
SCALE: 3/16"=1'-0"



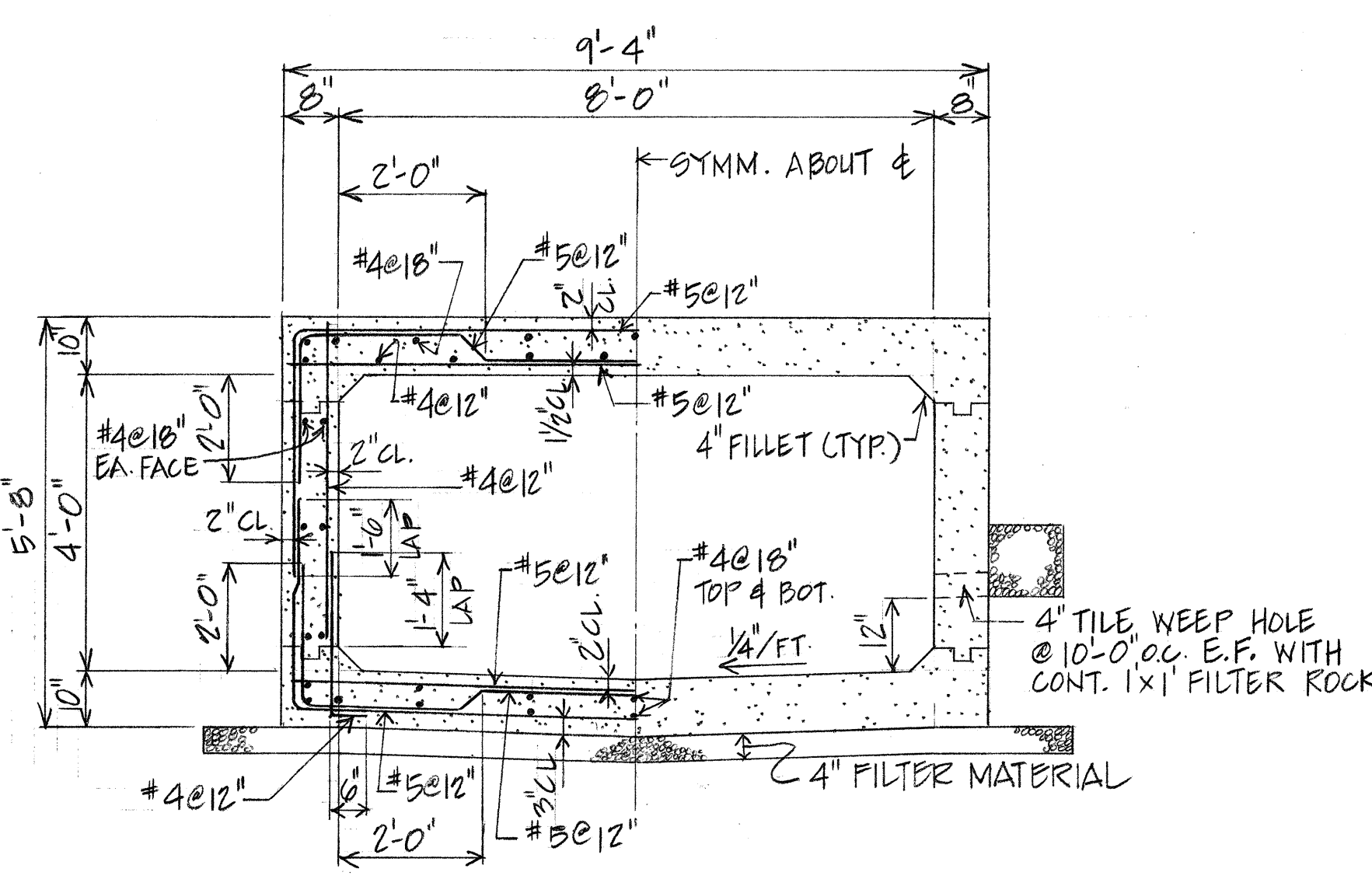
SECTION "C-C"
SCALE: 3/16"=1'-0"



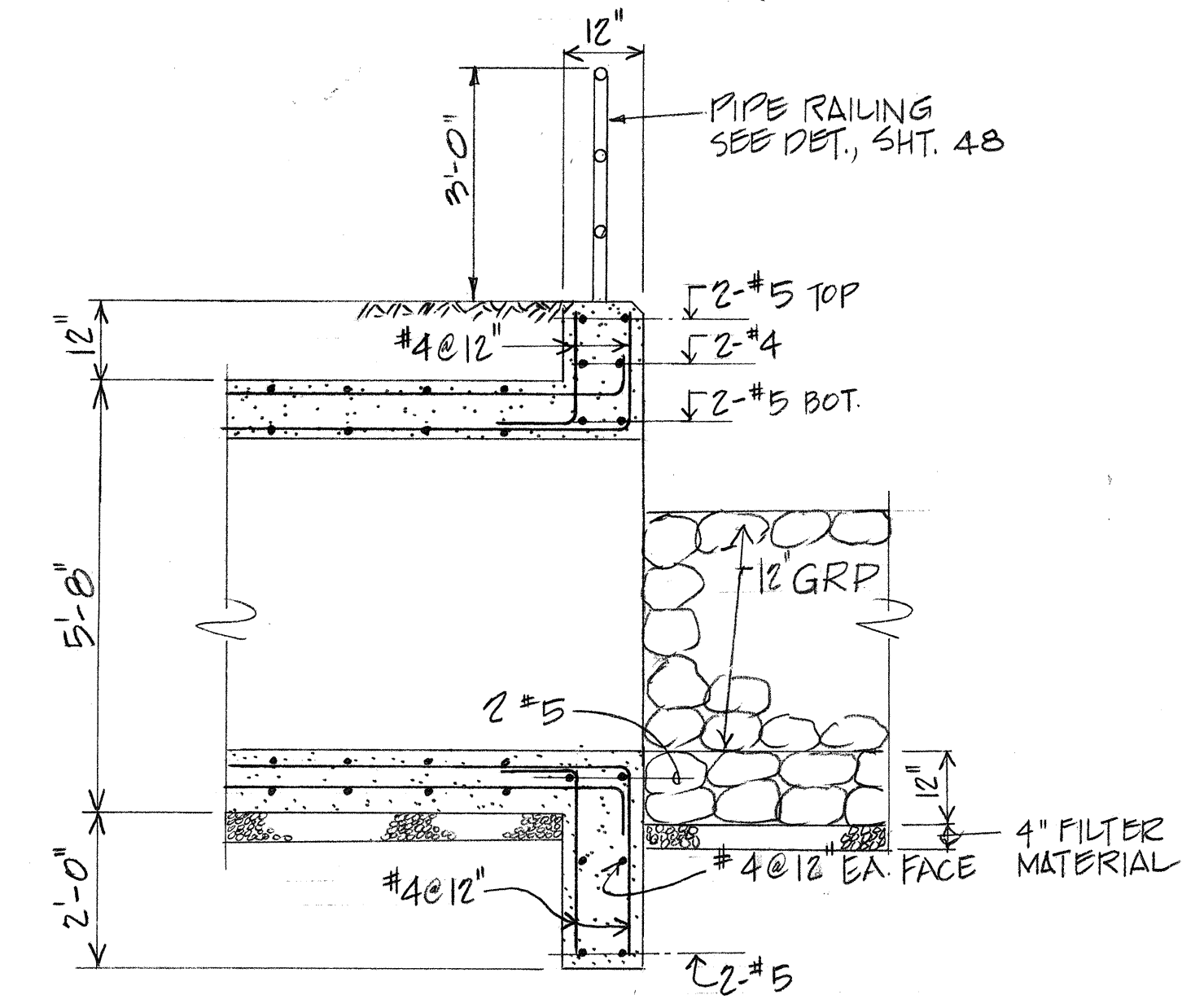
SECTION "F-F"
SCALE: 3/8"=1'-0"



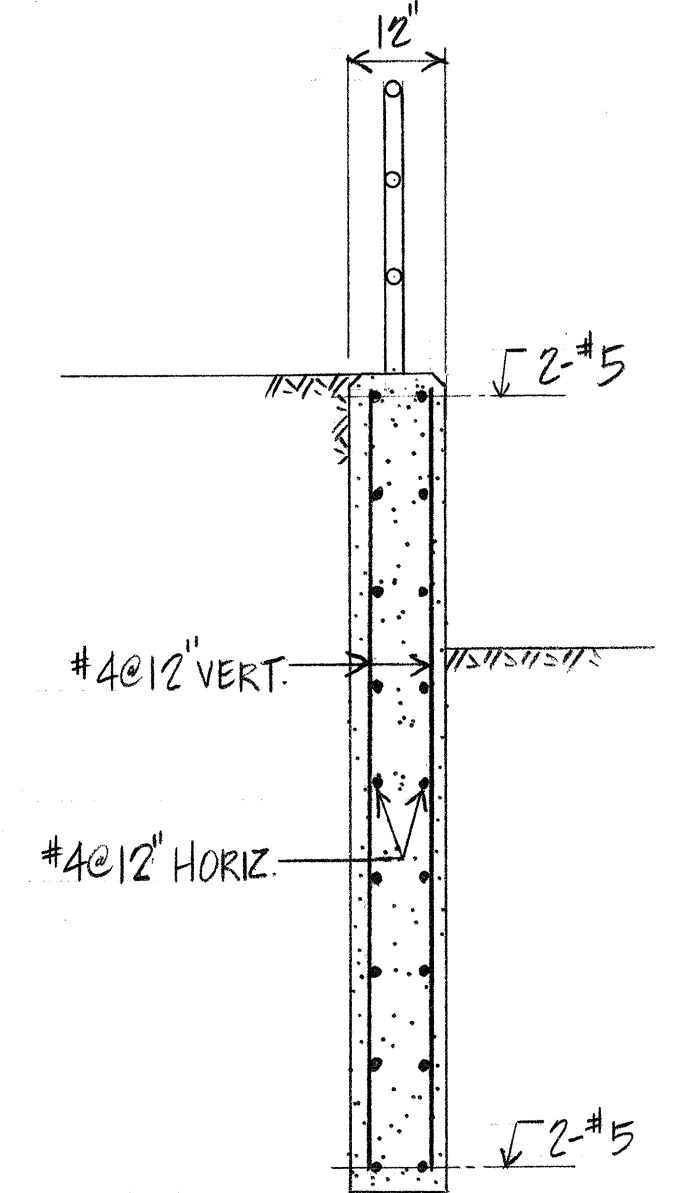
PLAN-INLET AT STA. 50+12
SCALE: 3/8"=1'-0"



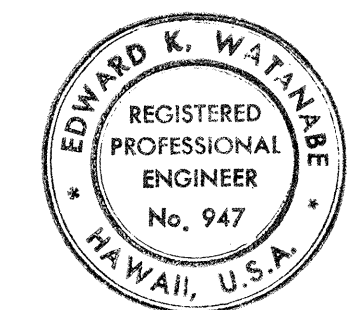
SECTION "A-A"
SCALE: 1/2"=1'-0"



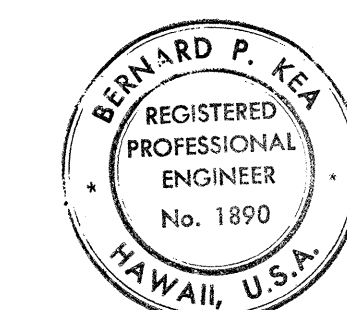
REINF. DETAIL AT OUTLET
SCALE: 1/2"=1'-0"



SECTION "E-E"
SCALE: 1/2"=1'-0"



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
WALTER LUM ASSOCIATES, INC.
E.K. Wainane
By



THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
Bernard P. Kea
Signature

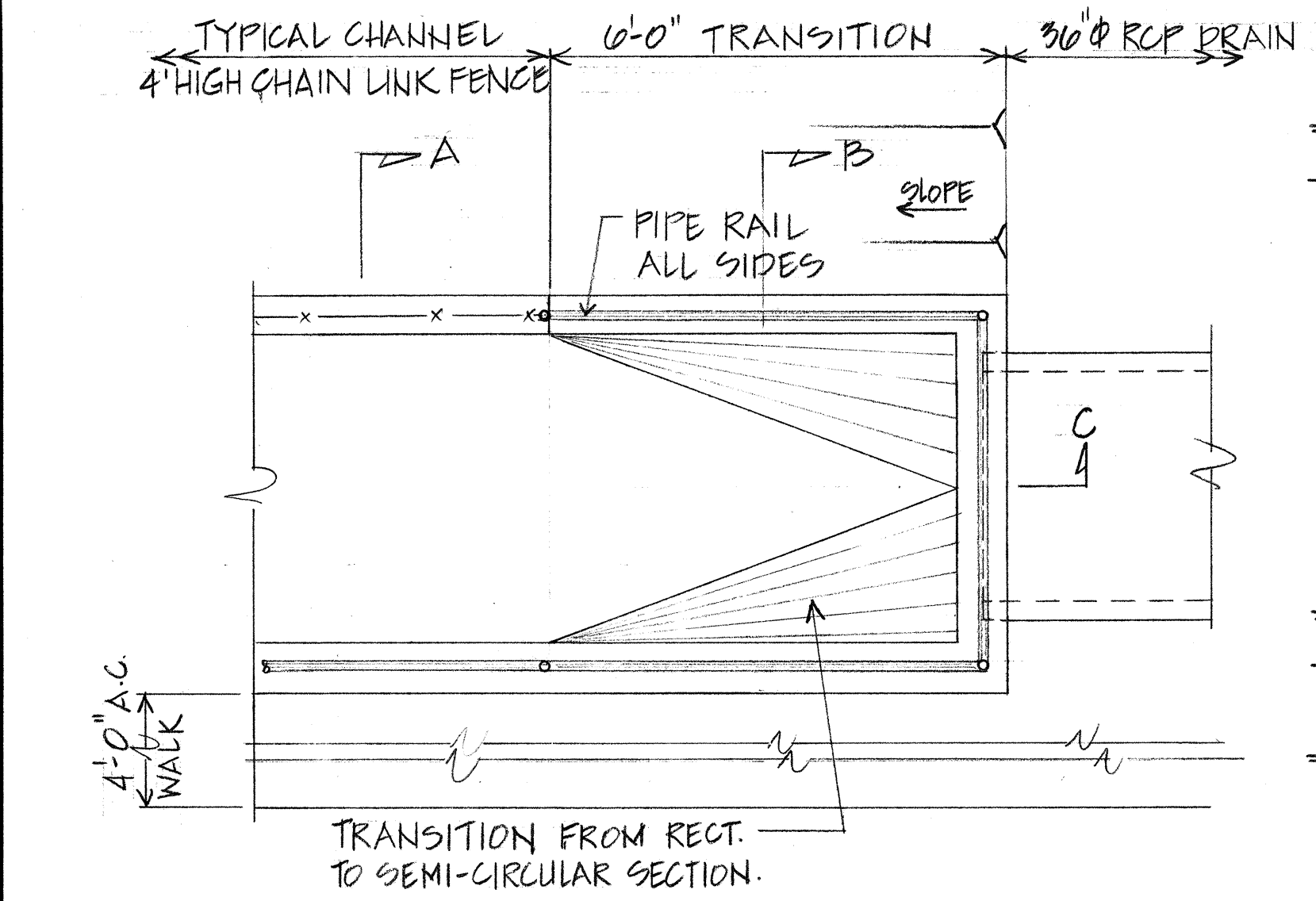
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPECIAL DRAINAGE DETAILS
FARRINGTON HIGHWAY WIDENING
PROJECT 93A-02-72
SCALE: AS SHOWN

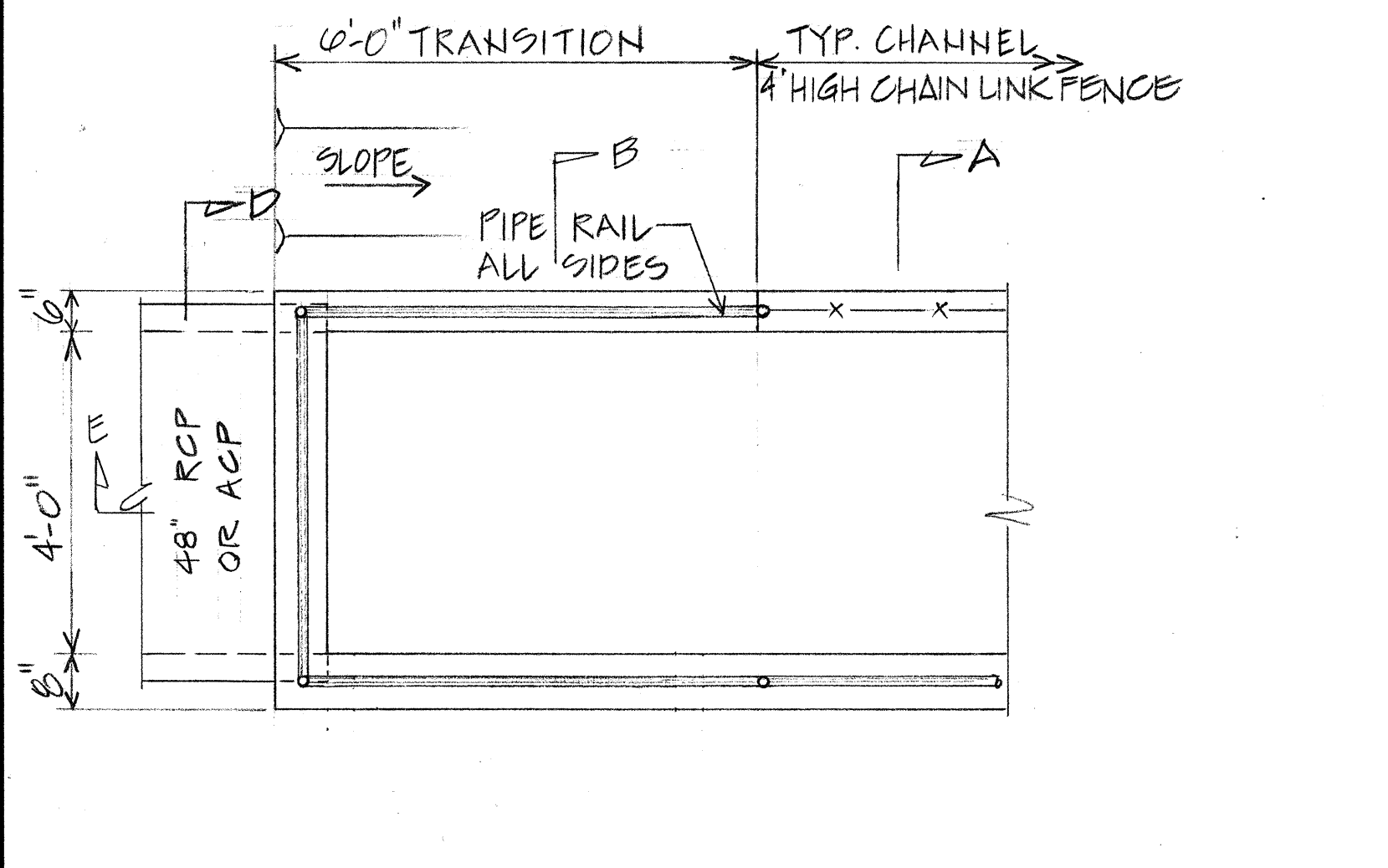
SHEET No. 2 OF 3 SHEETS

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
BY	

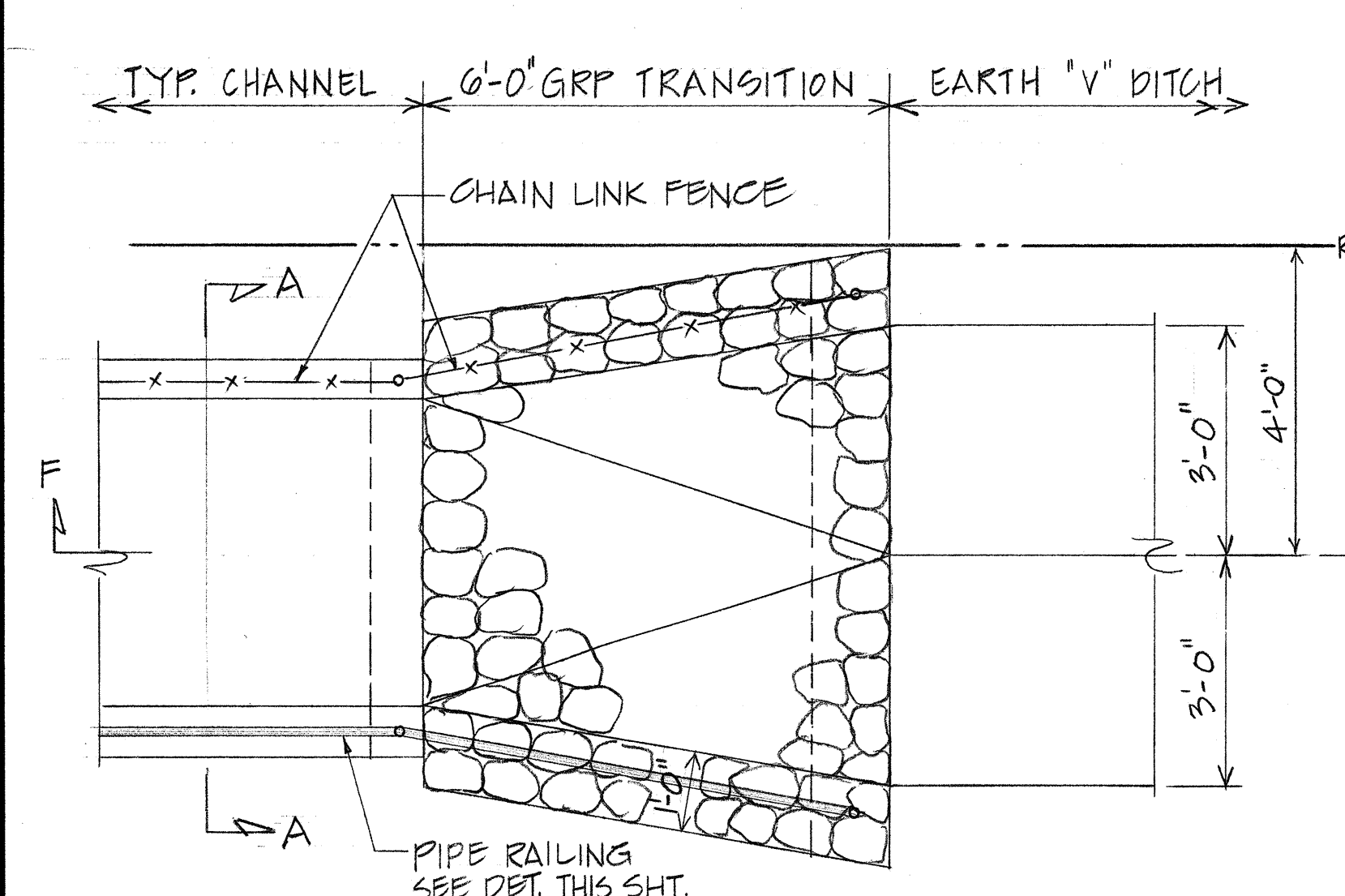
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.		1974	48	100



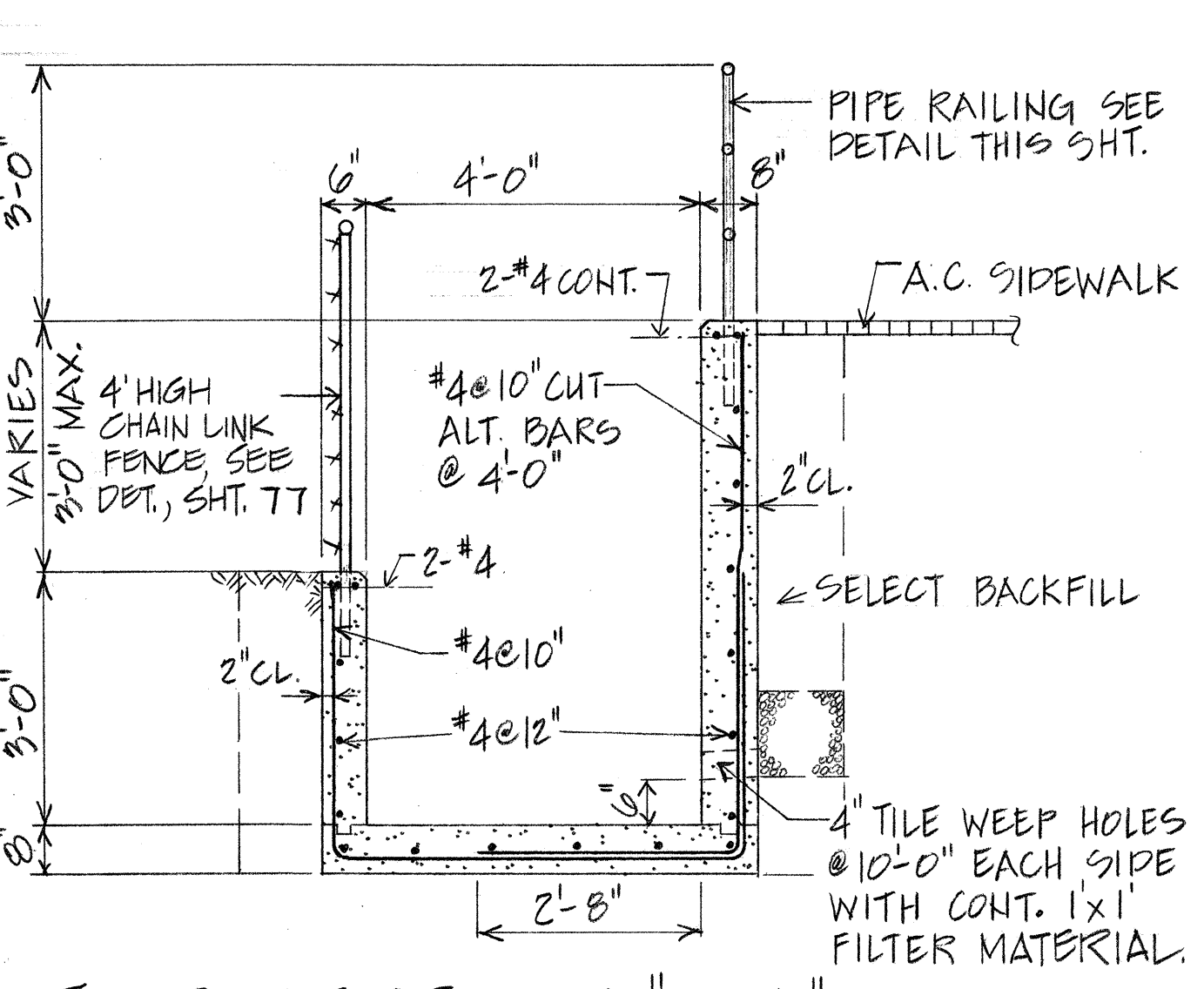
TRANSITION AT STA. 30+19 TO 30+25
STA. 30+75 TO 30+81
SCALE: 1/2" = 1'-0"



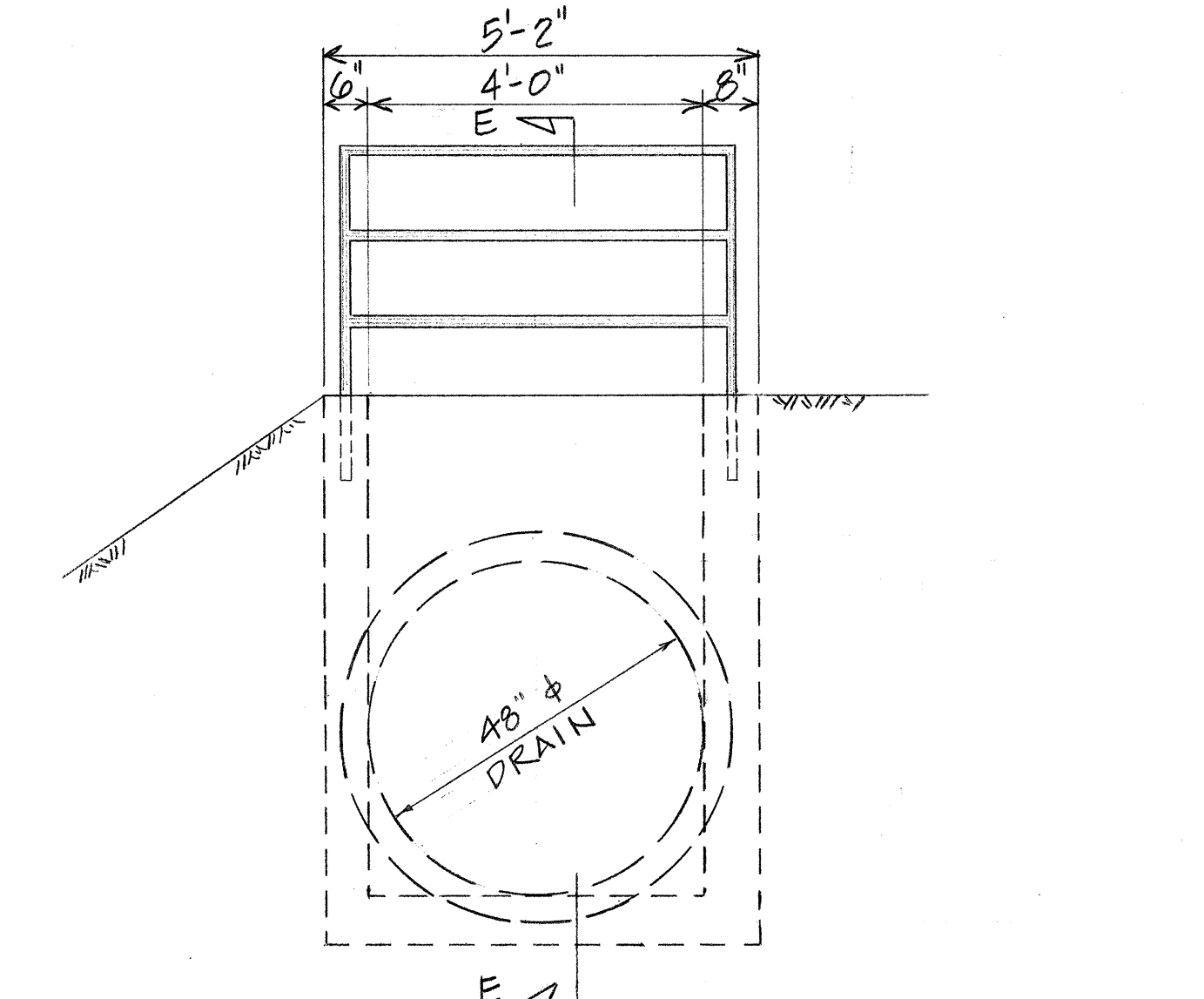
TRANSITION AT STA. 27+90 TO 27+96
SCALE: 1/2" = 1'-0"



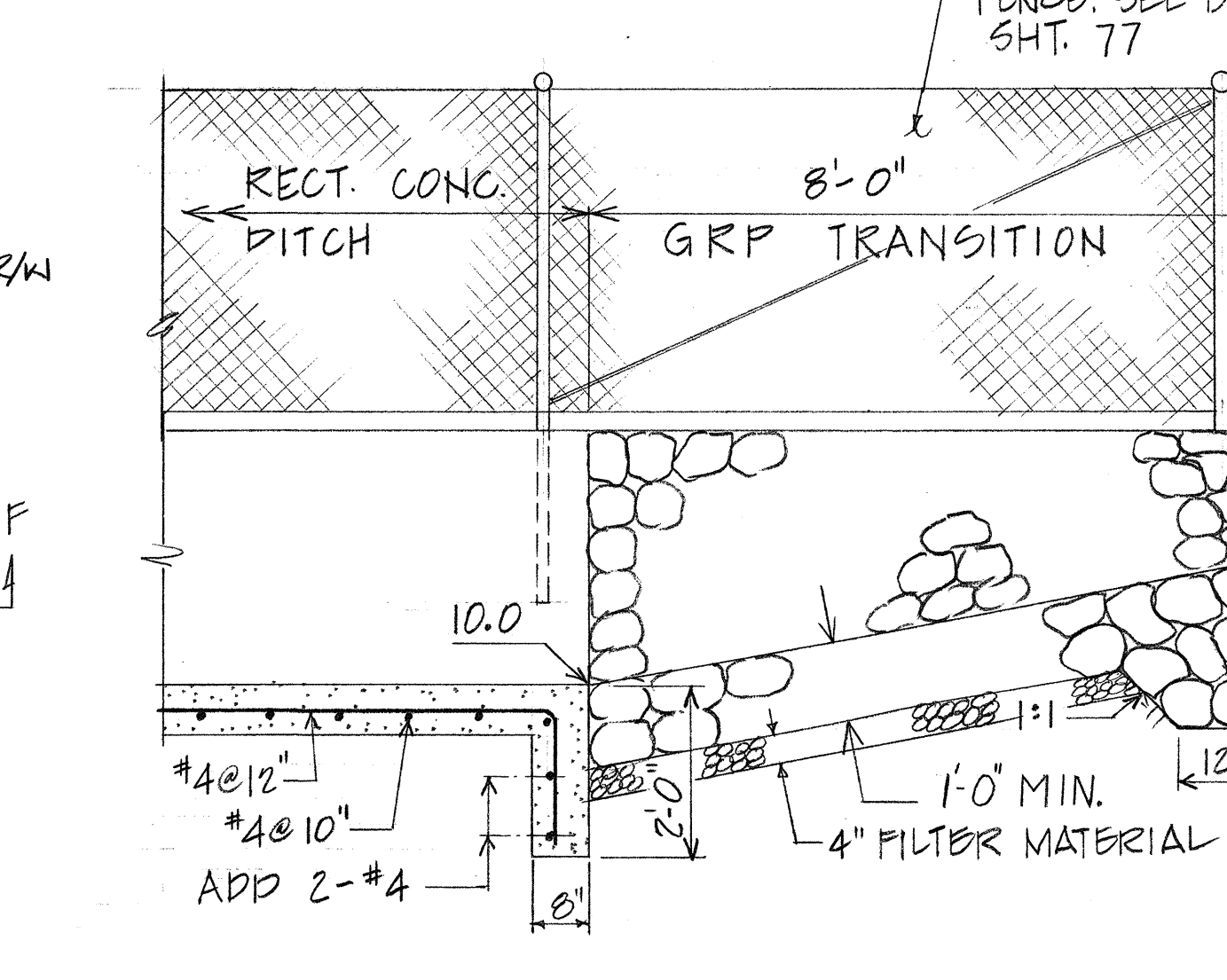
TRANSITION AT STA. 37+15 TO 37+21
SCALE: 1/2" = 1'-0"



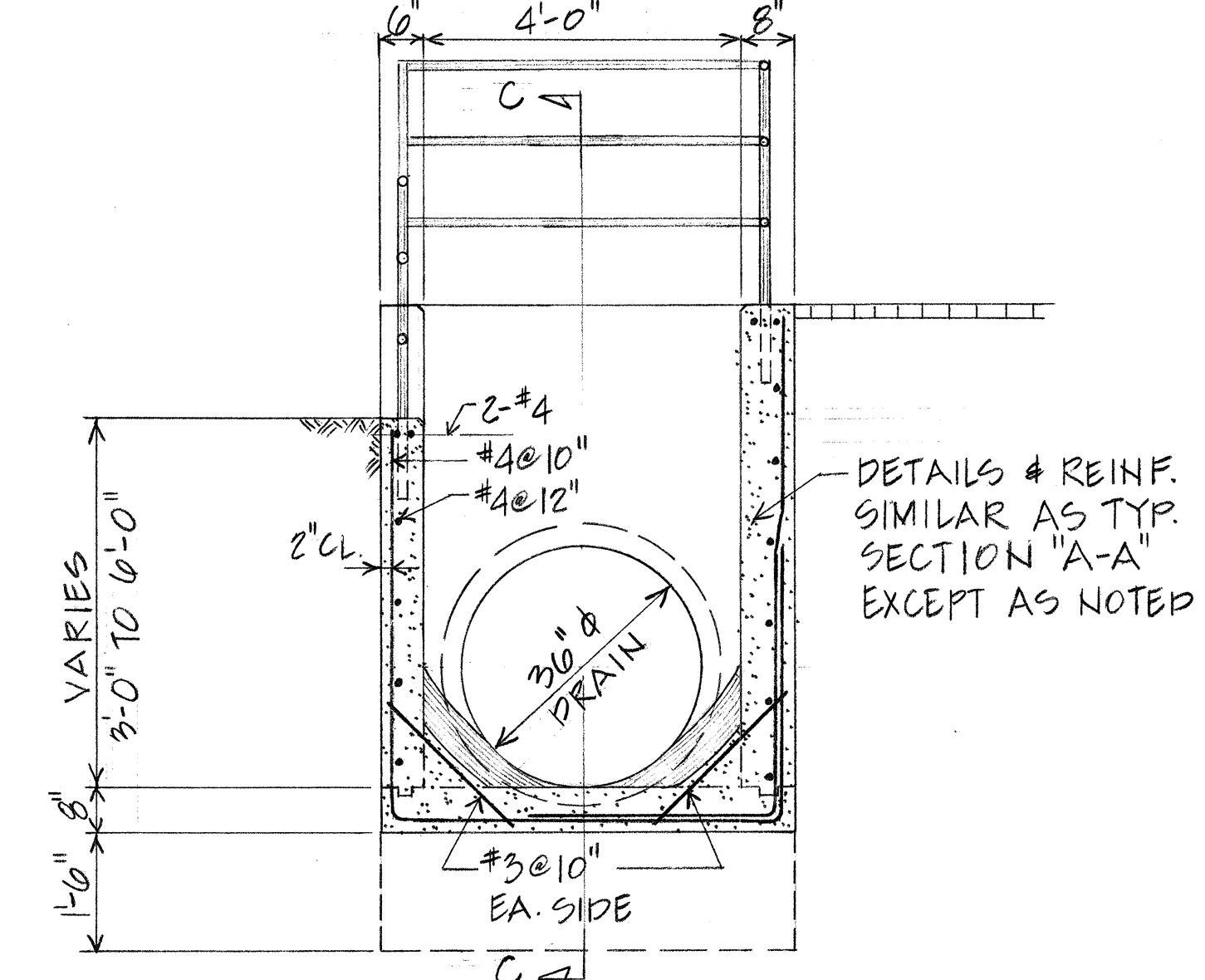
TYP. SECTION "A-A"
SCALE: 1/2" = 1'-0"



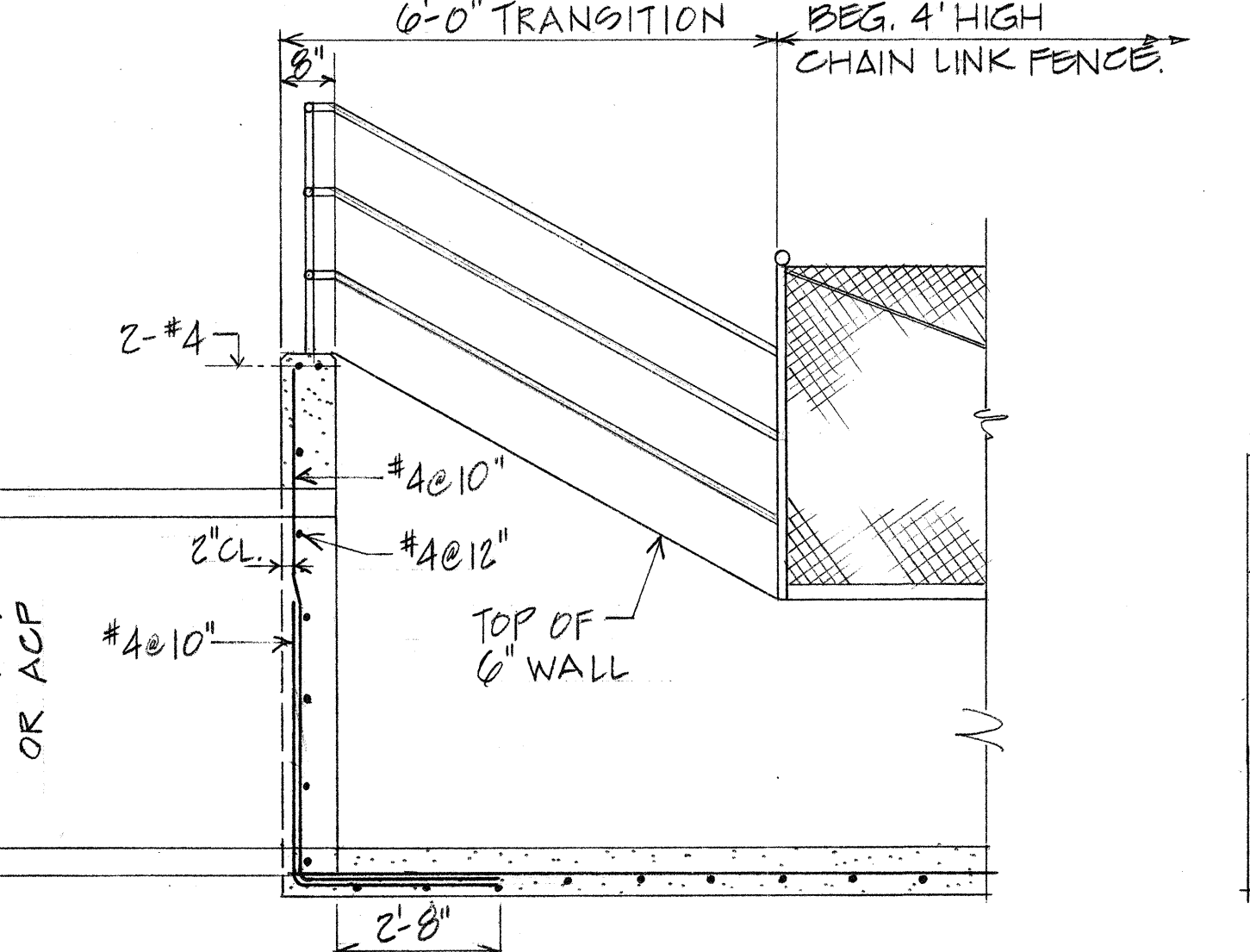
SECTION "D-D"
SCALE: 1/2" = 1'-0"



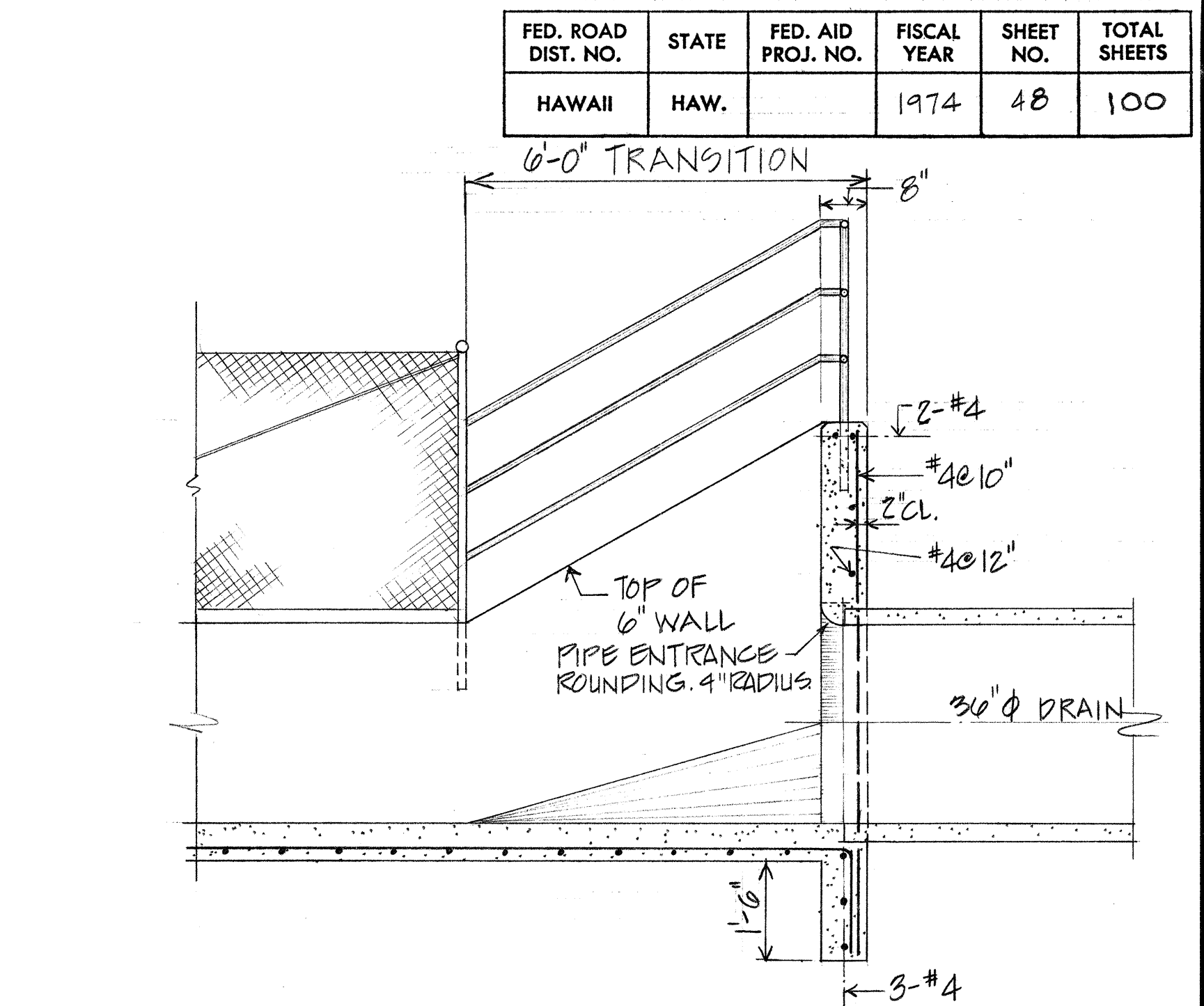
SECTION "F-F"
SCALE: 1/2" = 1'-0"



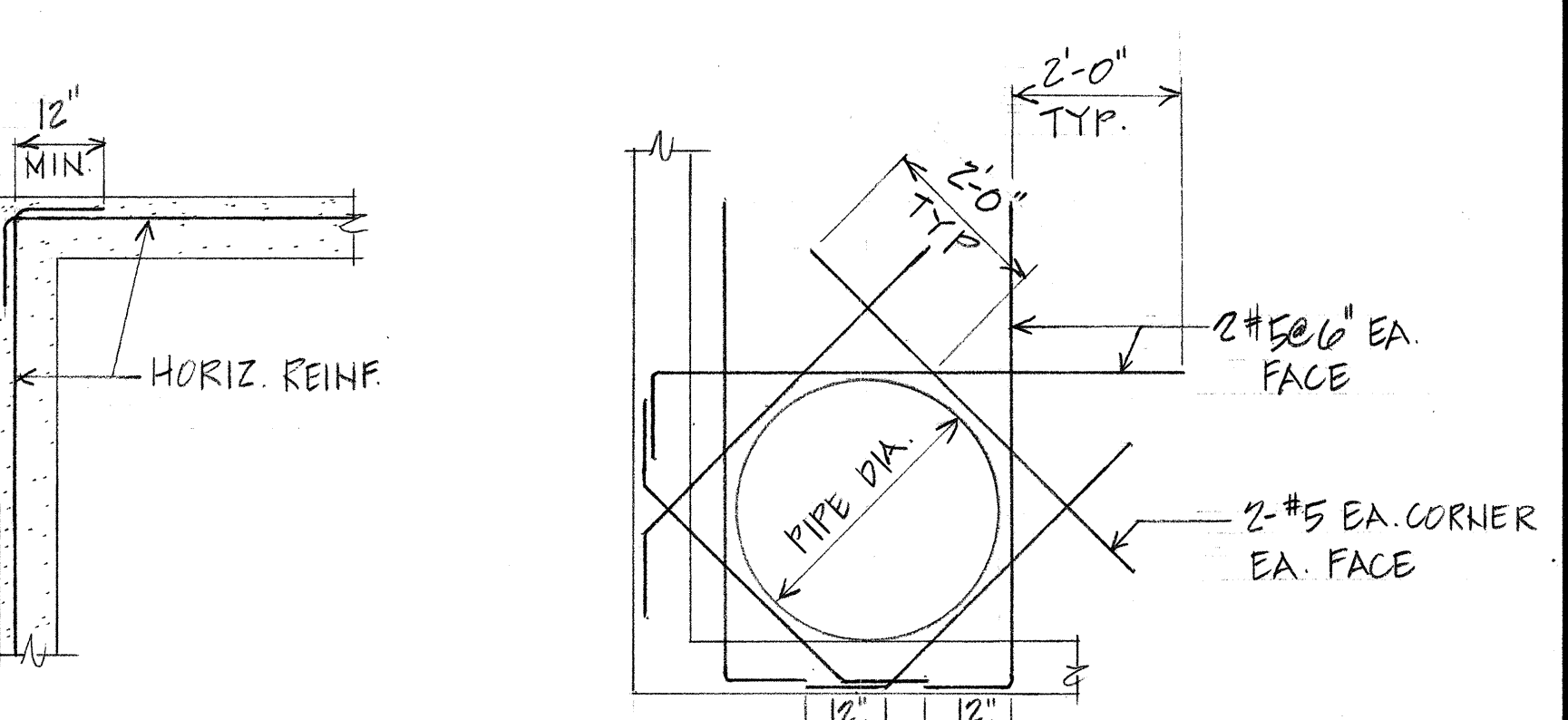
SECTION "B-B" SCALE: 1/2" = 1'-0"



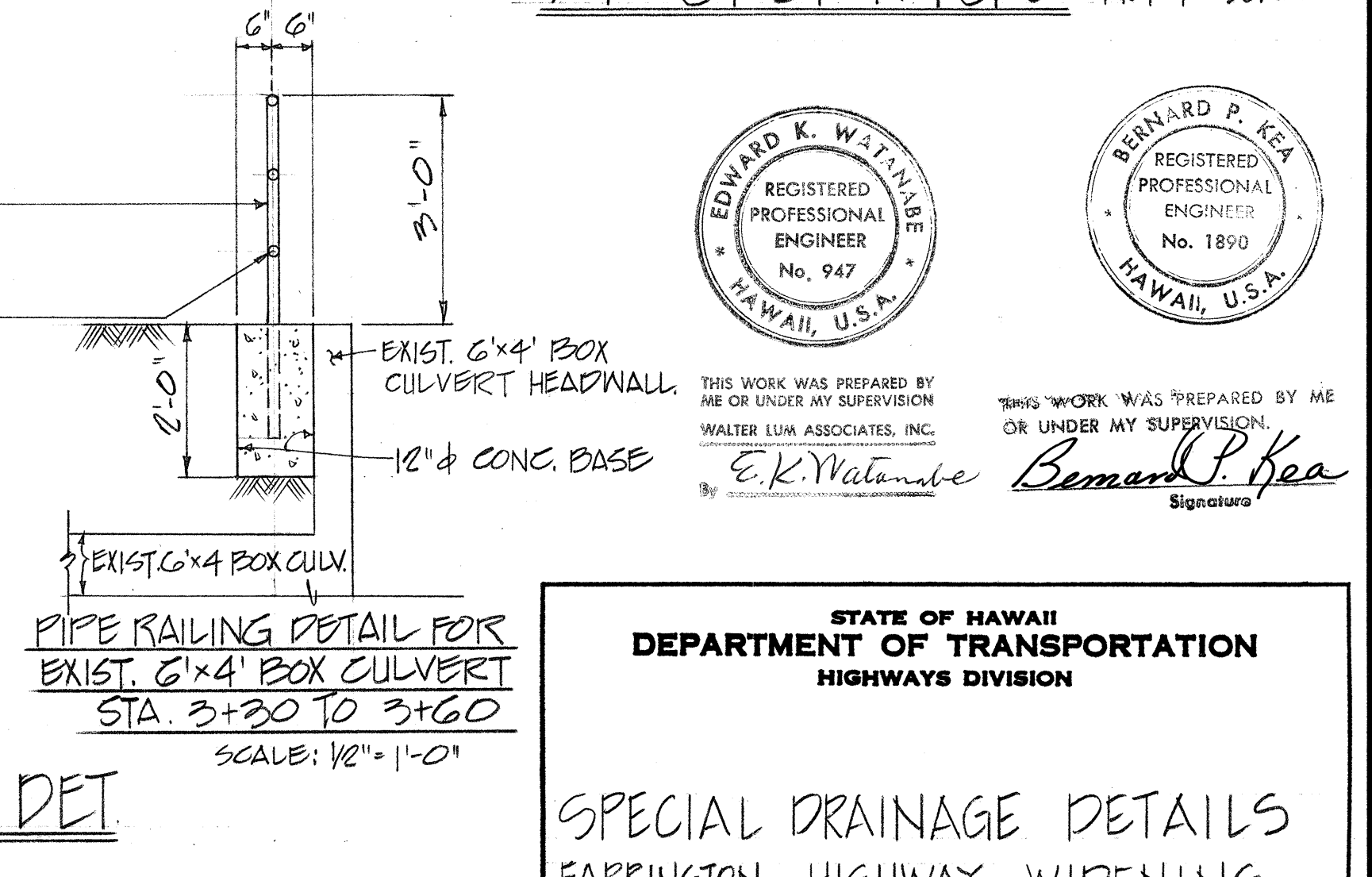
SECTION "E-E"
SCALE: 1/2" = 1'-0"



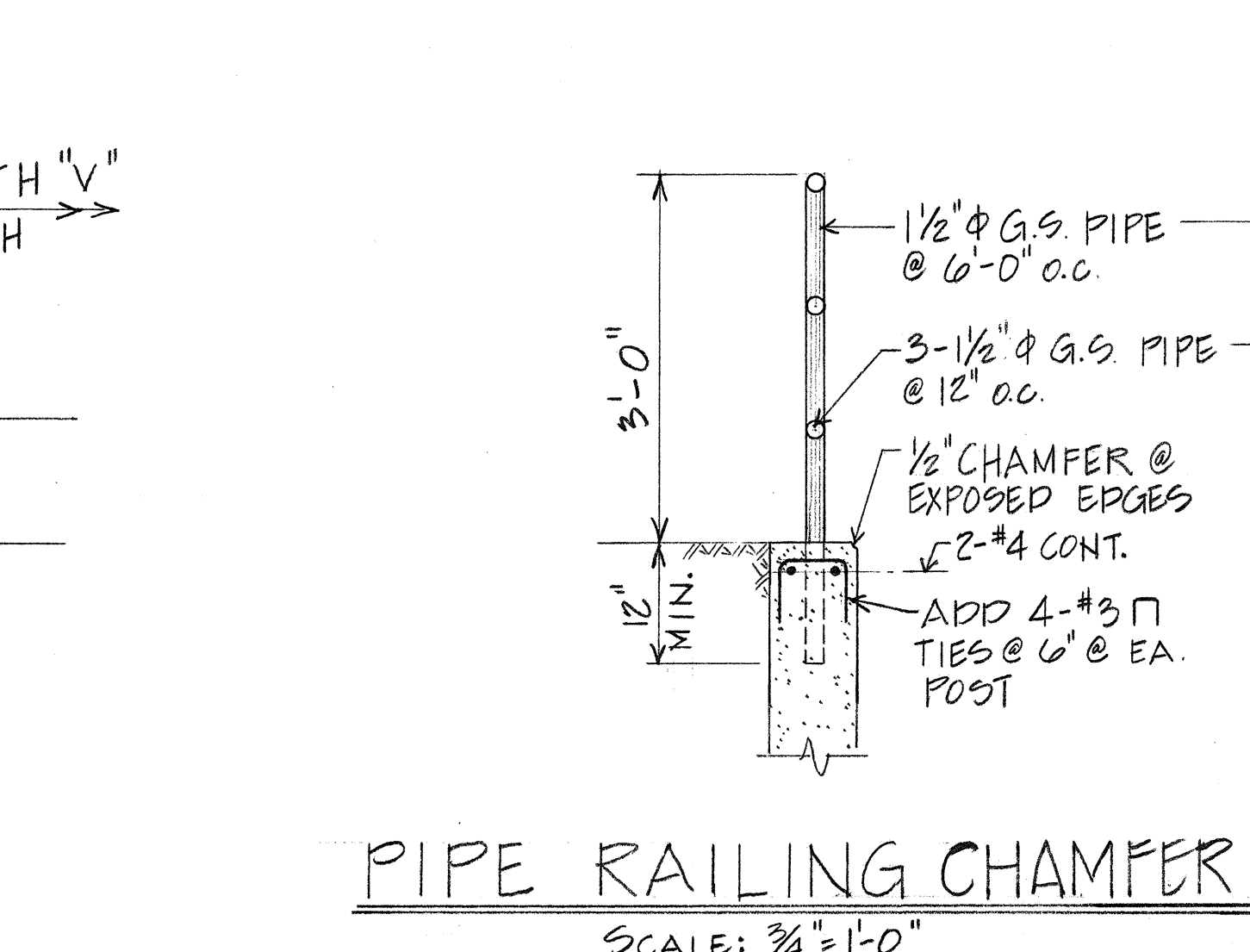
SECTION "C-C"
SCALE: 1/2" = 1'-0"



CORNER DETAIL SCALE: 1/2" = 1'-0"



ADDITIONAL REINF. AT OPENINGS NOT TO SCALE



PIPE RAILING CHAMFER DET. SCALE: 3/4" = 1'-0"

EDWARD K. WATANABE
REGISTERED PROFESSIONAL ENGINEER
No. 947
HAWAII, U.S.A.

BERNARD P. KEA
REGISTERED PROFESSIONAL ENGINEER
No. 1890
HAWAII, U.S.A.

THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION
WALTER LUH ASSOCIATES, INC.
E.K. Watanabe
Bernard P. Kea

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SPECIAL DRAINAGE DETAILS
FARRINGTON HIGHWAY WIDENING
PROJECT 93A-02-70
SCALE: AS SHOWN

SHEET No. 3 OF 3 SHEETS

DATE
SURVEY PLOTTED BY
DRAWN BY
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NOTE BOOK
No.