

DESIGN STRESSES:

$f_c' = 3000 \text{ psi}$
 $f_c = 1200 \text{ psi}$
 $f_s = 20,000 \text{ psi}$

MATERIALS:

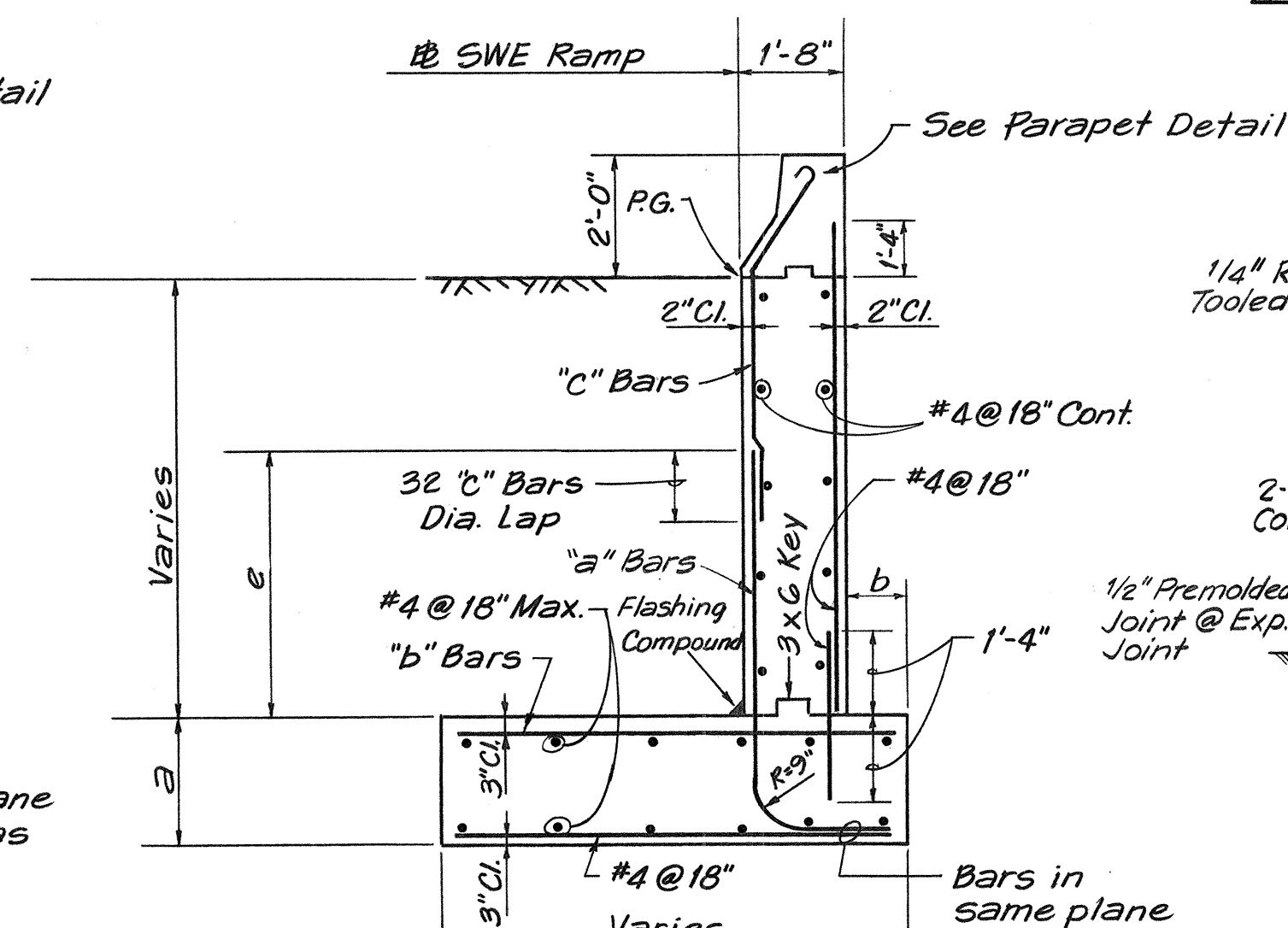
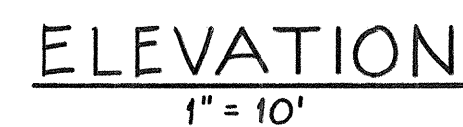
All reinforcing steel to be ASTM designation A615 Grade 40.

CURVE N^o. (93)
 $\Delta = 14^{\circ}-12'-07.6''$
 $R = 1000.00'$
 $L = 247.87'$
 $T = 124.58'$

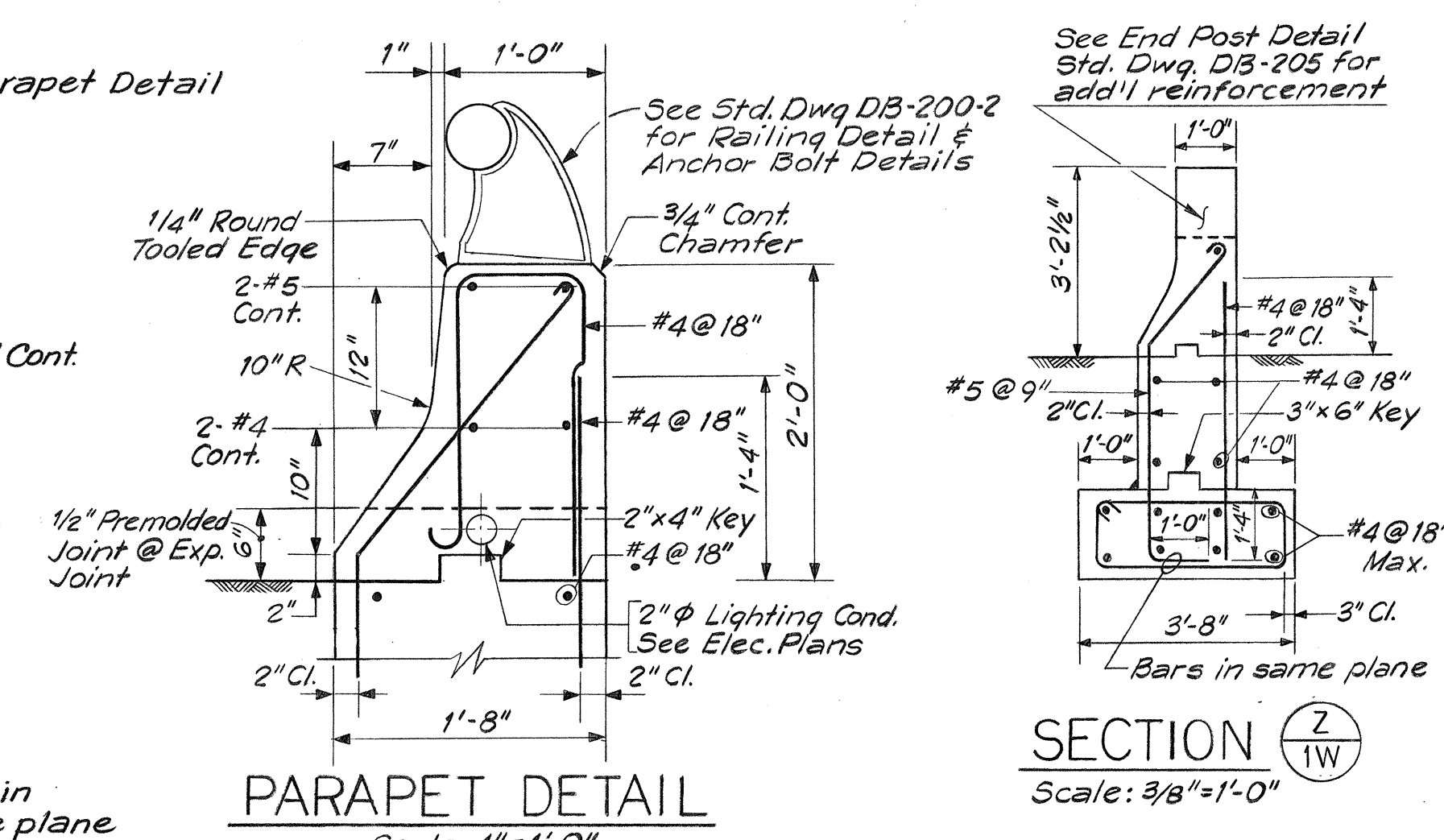
LEGEND:

- S-52 = Boring
- E = Expansion Joint
- C = Contraction Joint

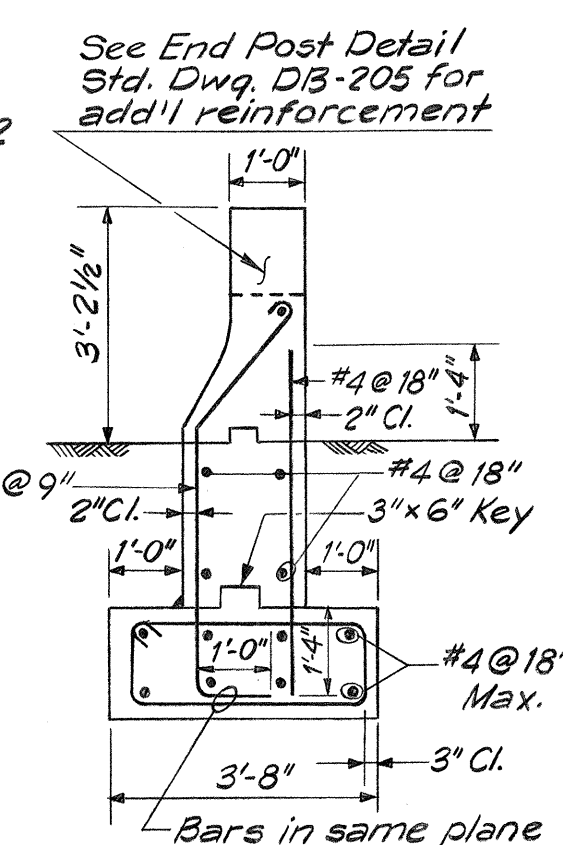
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(91):13	1972	144	228



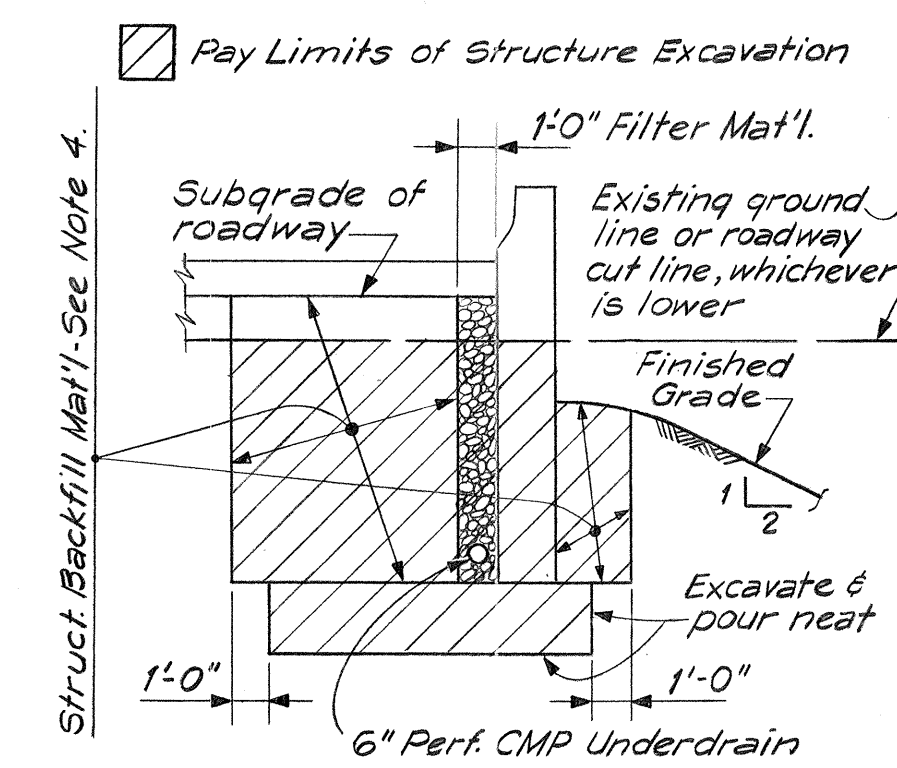
TYPICAL SECTION
PANELS @ TO @



PARAPET DETAIL
Scale: 1"=1'-0"



SECTION 
Scale: 3/8" = 1'-0"

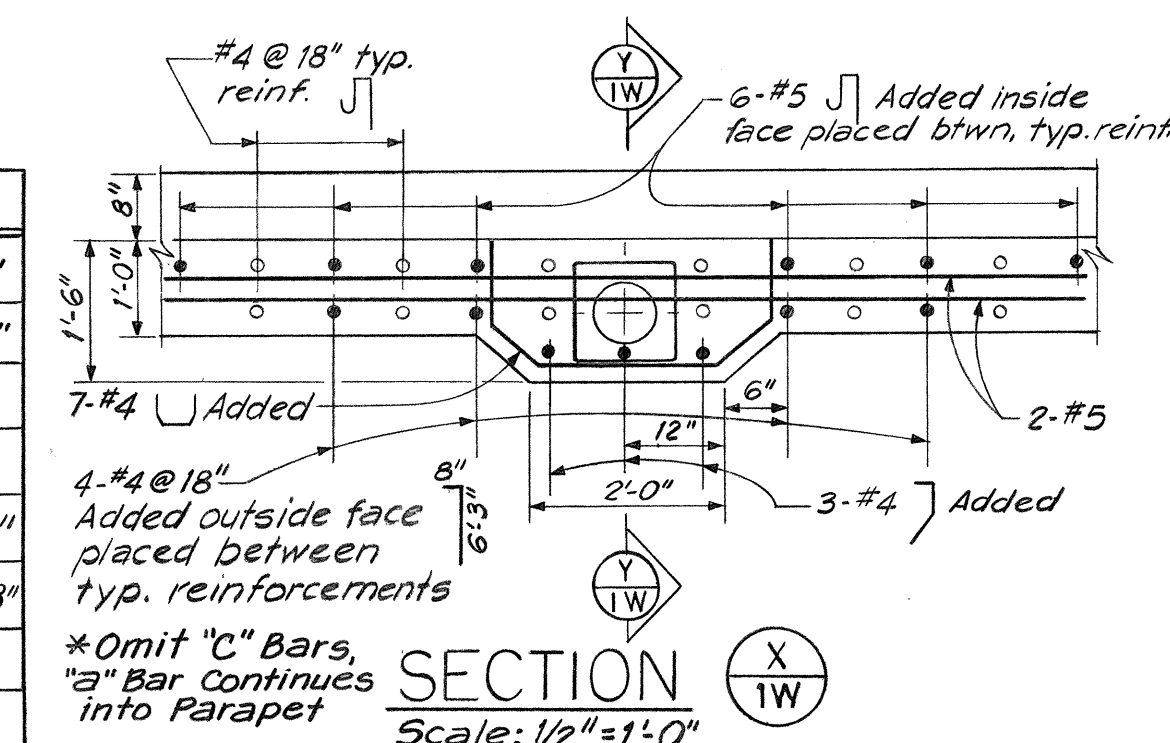


PAYMENT LIMITS
NTS

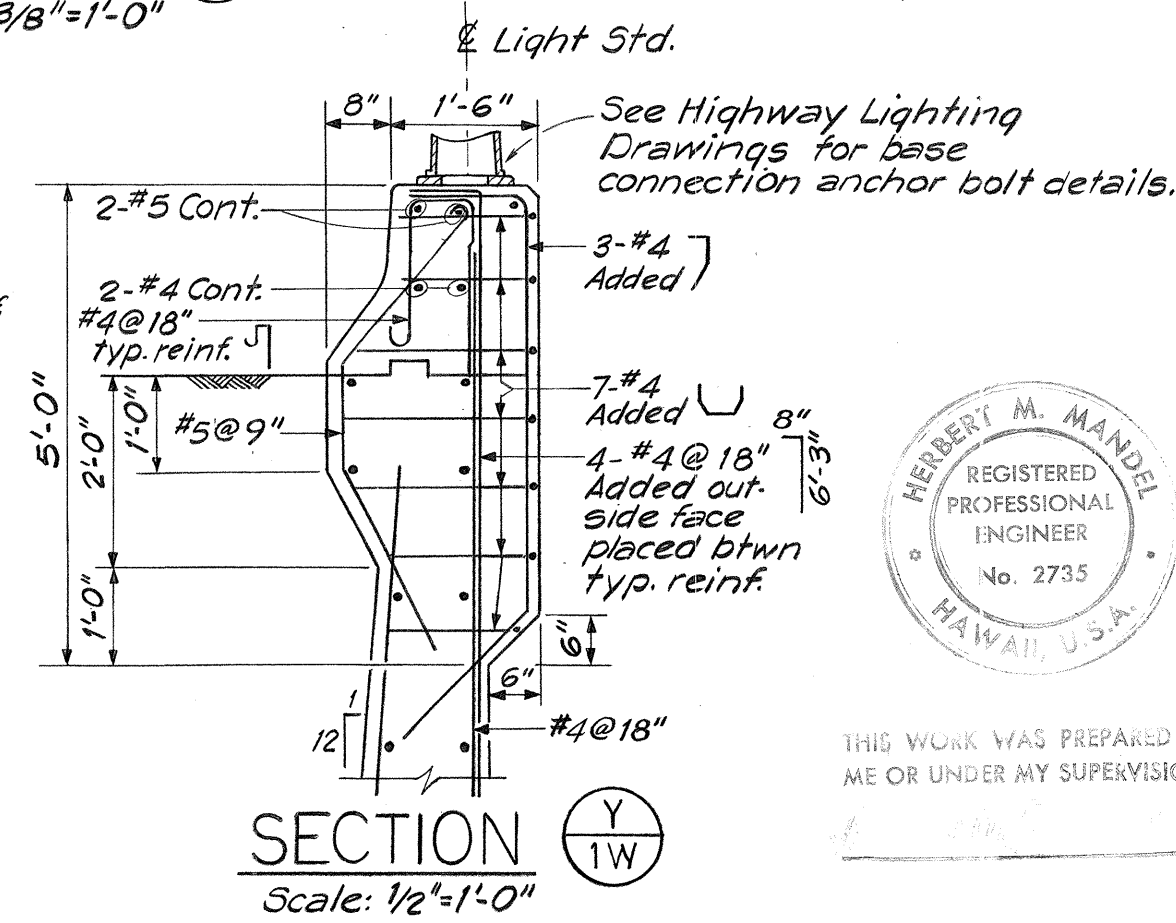
NOTES:

1. For "General Notes" see Standard Drawing DB-200.
2. For details of expansion & contraction joints see Std. Dwg. DB-207-2.
3. For details of Metal Bridge Railing see Std. Dwgs. DB-200-1 & DB-200-2.
4. Structure backfill material shall have a sand equivalent value of not less than 20.
5. For details of vertical formboard texture finish see Structure No. 3A Abutment.

Panel	A	B	C	D	E	F	G	H	I	J	K
a	2'-6"	2'-6"	2'-6"	2'-0"	2'-0"	2'-0"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"
b	3'-0"	3'-0"	3'-0"	2'-6"	2'-6"	2'-6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
d	8'-9"	8'-0"	7'-6"	6'-3"	5'-9"	—	—	—	—	—	—
e	13'-9"	14'-9"	12'-9"	10'-6"	8'-6"	7'-0"	3'-0"	5'-9"	4'-0"	—	—
"a" Bars	#7@5'2"	#11@6'	#10@6'	#9@6'	#8@6'	#10@12"	#7@12"	#6@12"	#6@12"	#5@9'	#5@9'
"b" Bars	#11@5'2"	#10@6'	#10@6'	#8@6'	#7@6'	#6@6'	#7@12"	#6@12"	#6@12"	#4@18'	#4@18'
"c" Bars	#5@11'	#7@12"	#7@12"	#6@12"	#6@12"	#6@12"	#6@12"	#6@12"	#6@12"	—	*
Batter	¾ @: 12	¾ @: 12	¾ @: 12	¾ @: 12	½ @: 12	½ @: 12	—	—	—	*	*



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



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



THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION

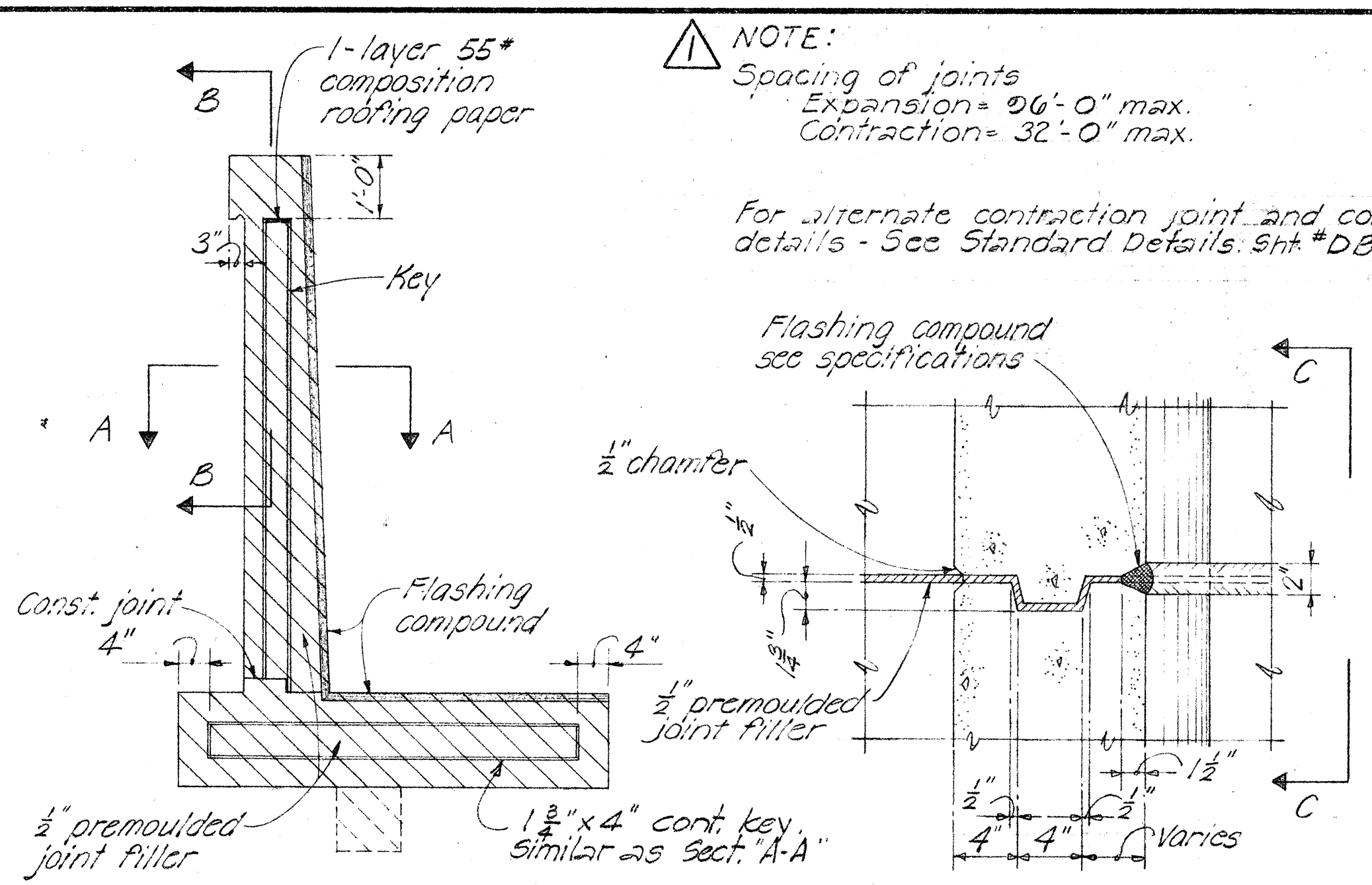
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HALAWA INTERCHANGE
STADIUM RAMP SWE
RETAINING WALL

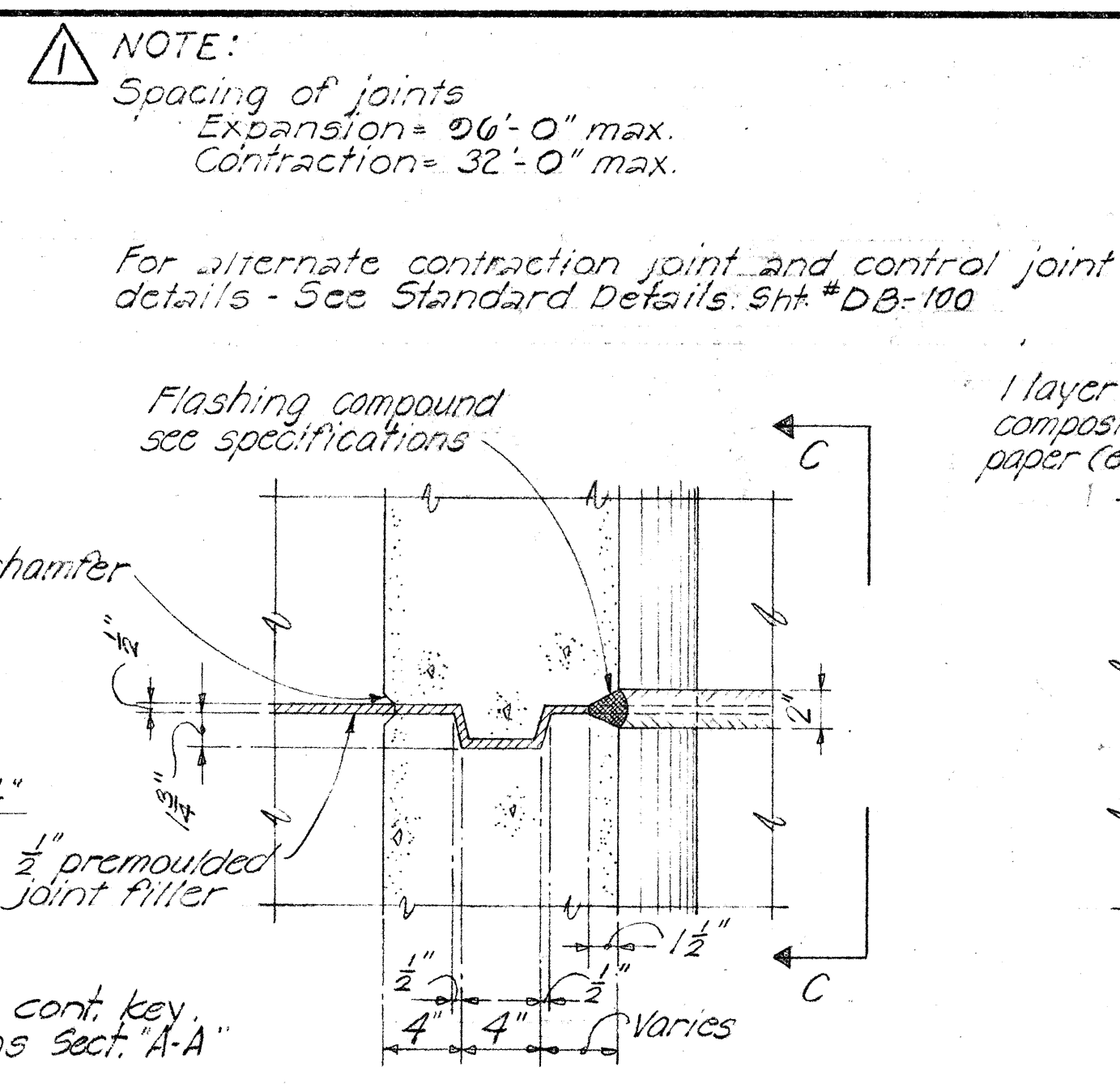
PROJ. NO. I-H1-1(91):13 DATE: MAR. 15, 1972

SHEET No. 1W OF 2W SHEETS

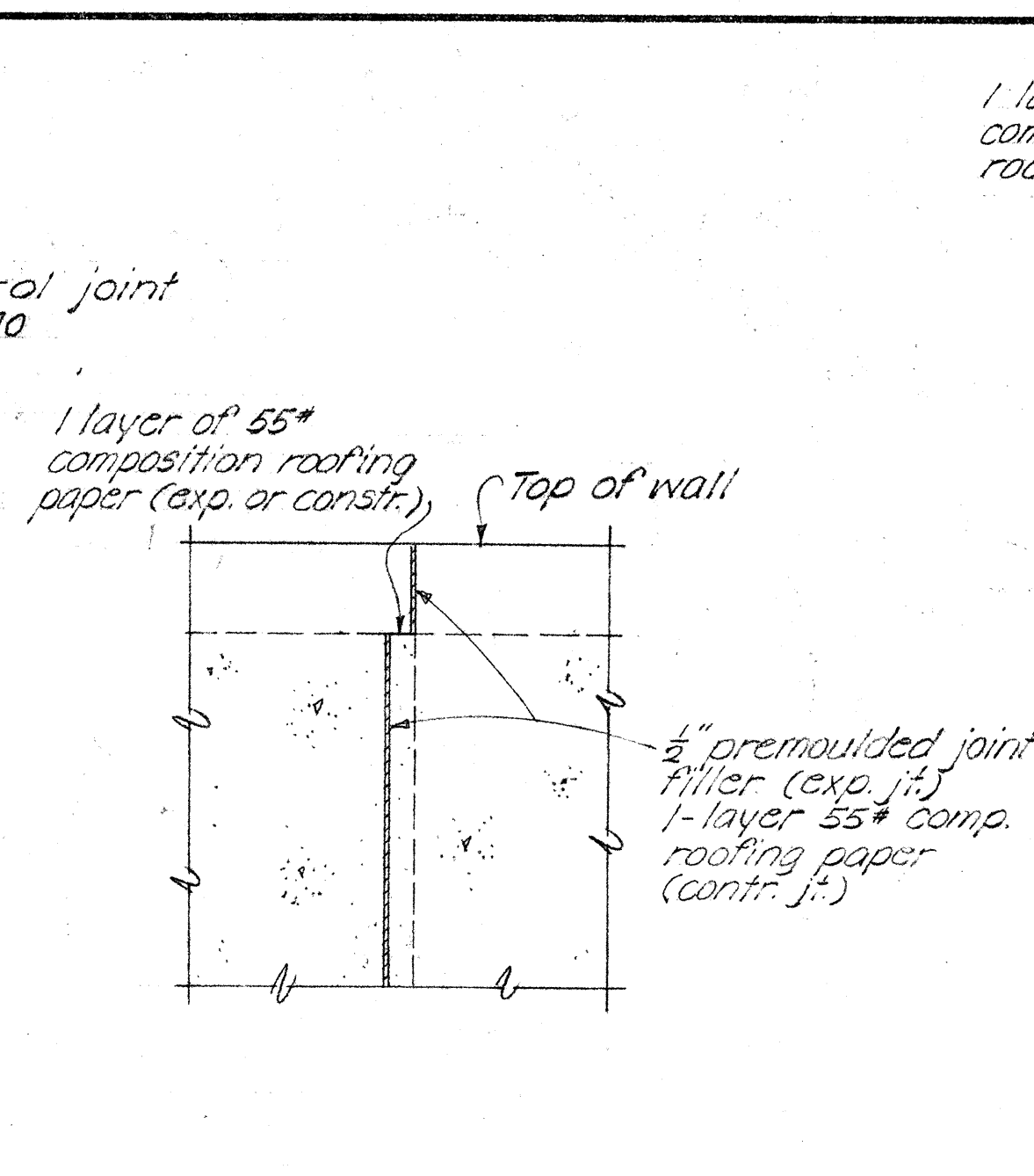
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-111-10013	1972	145	228



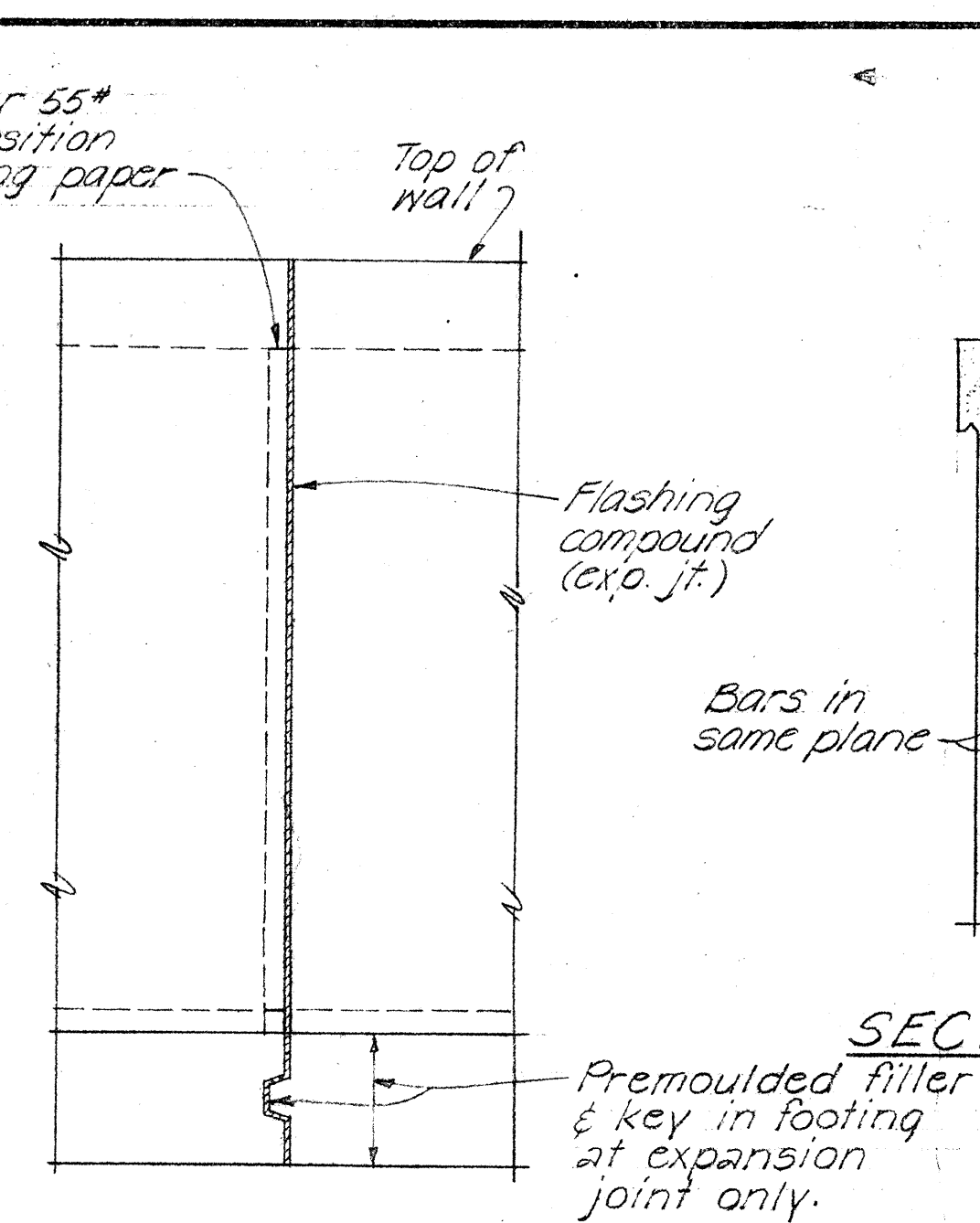
JOINT ELEVATION



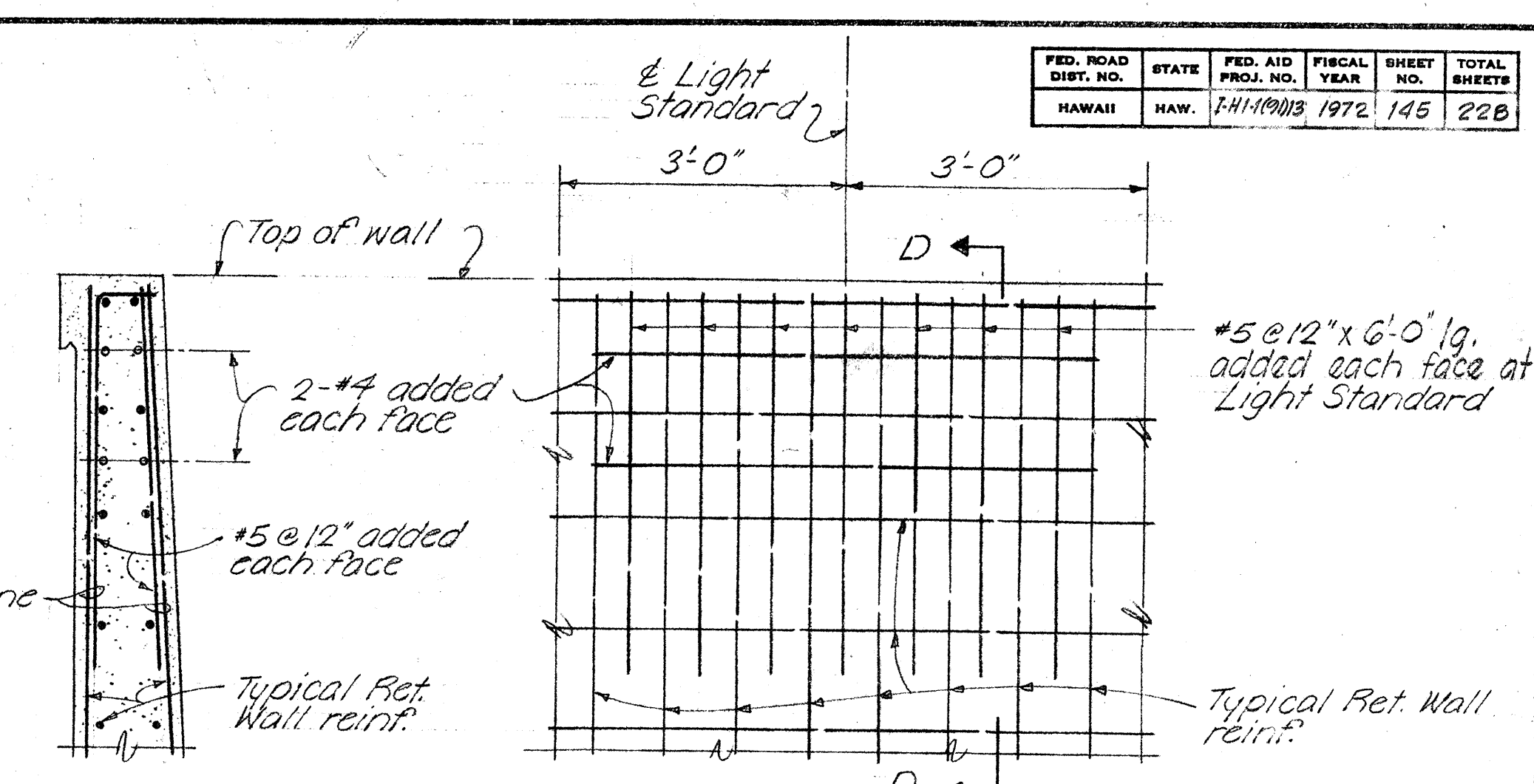
SECTION A-A



SECTION B-B

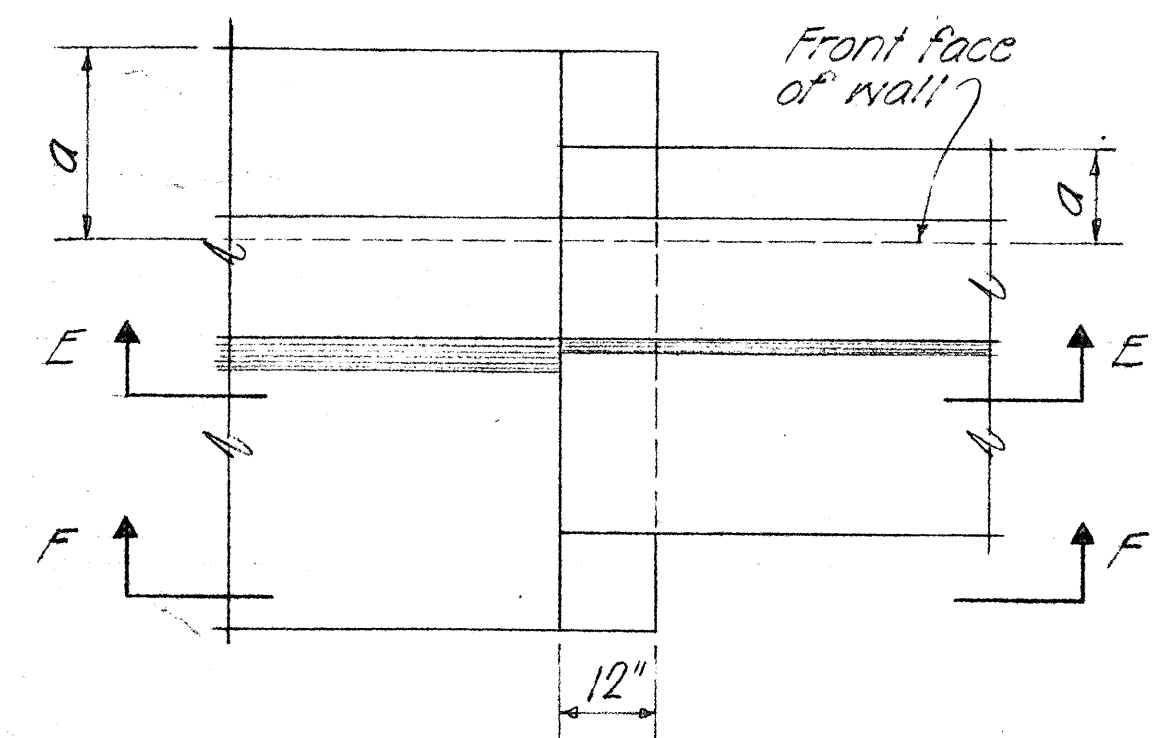


SECTION C-C

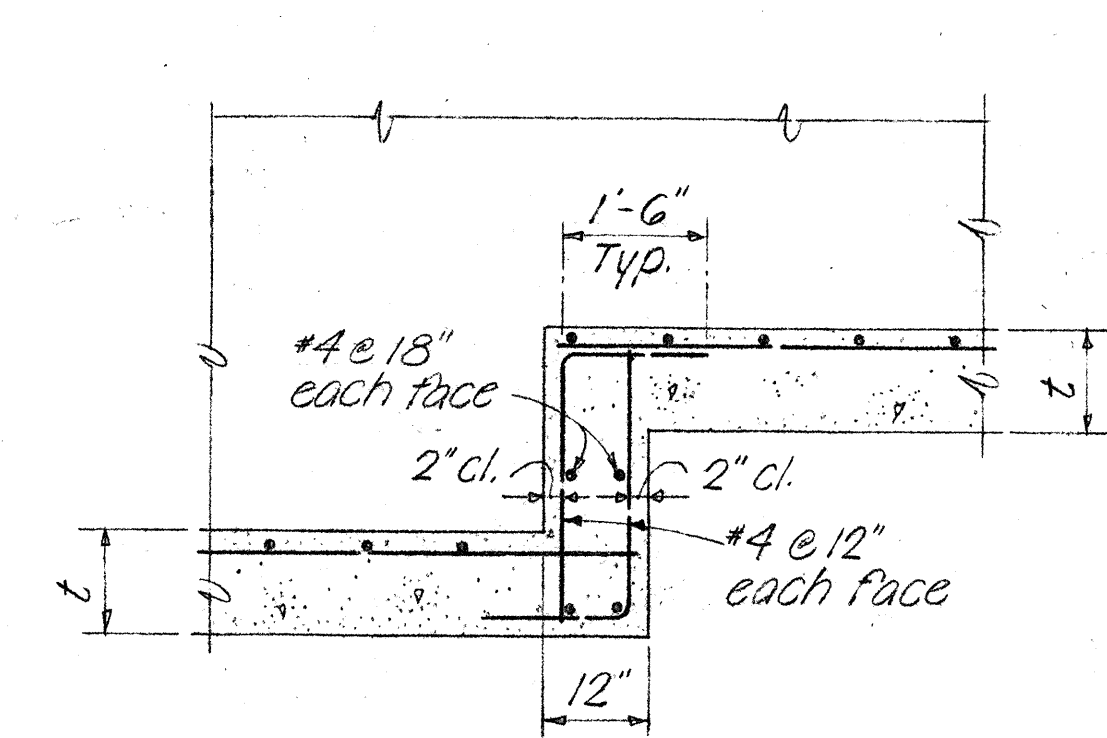


ELEVATION

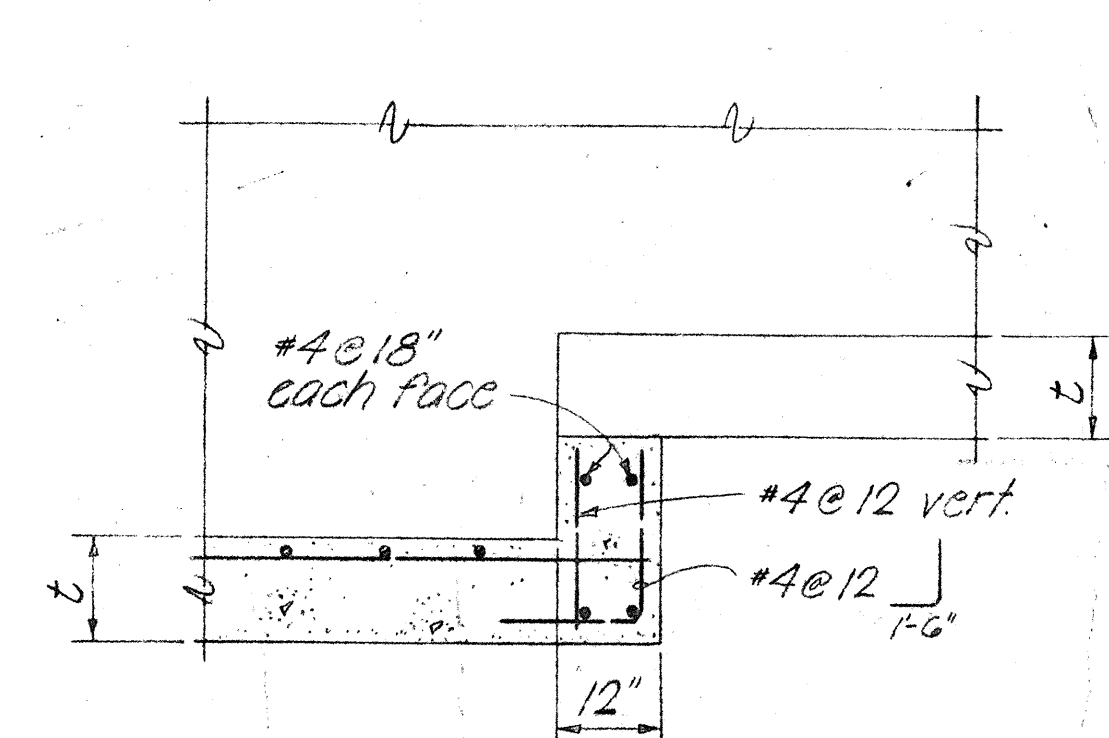
TYPICAL ADDED REINFORCEMENT AT LIGHT STANDARD BASE No Scale



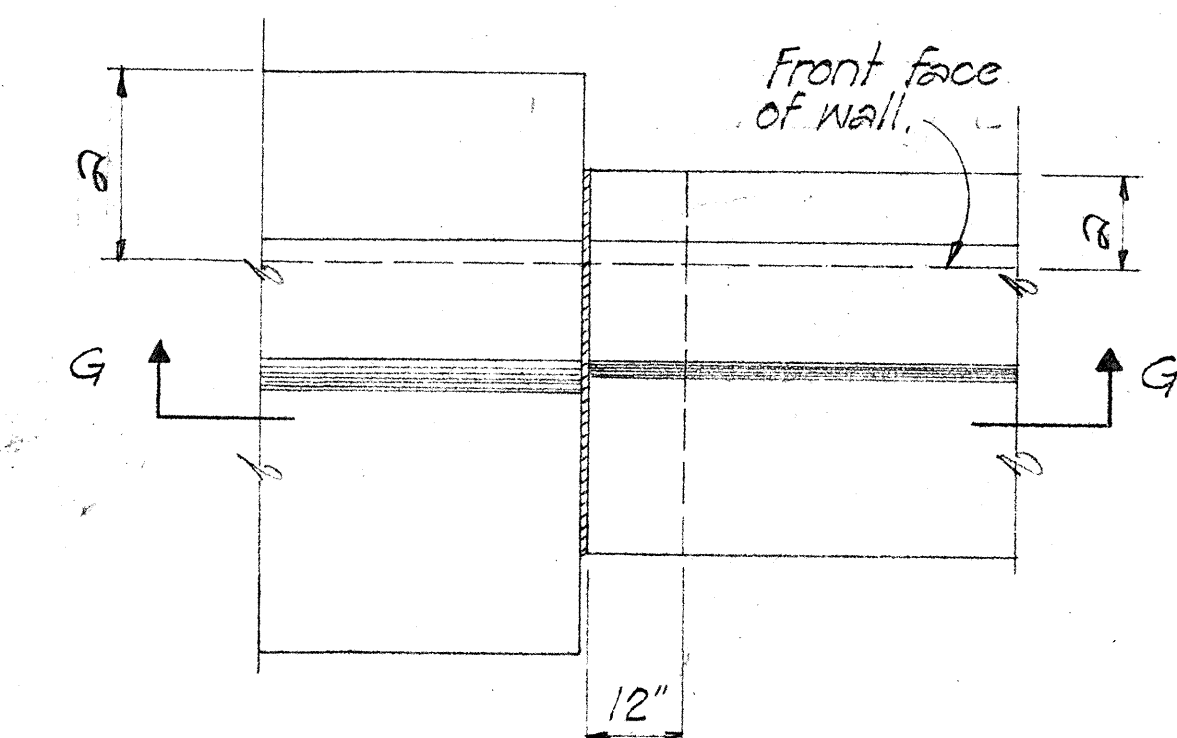
PLAN



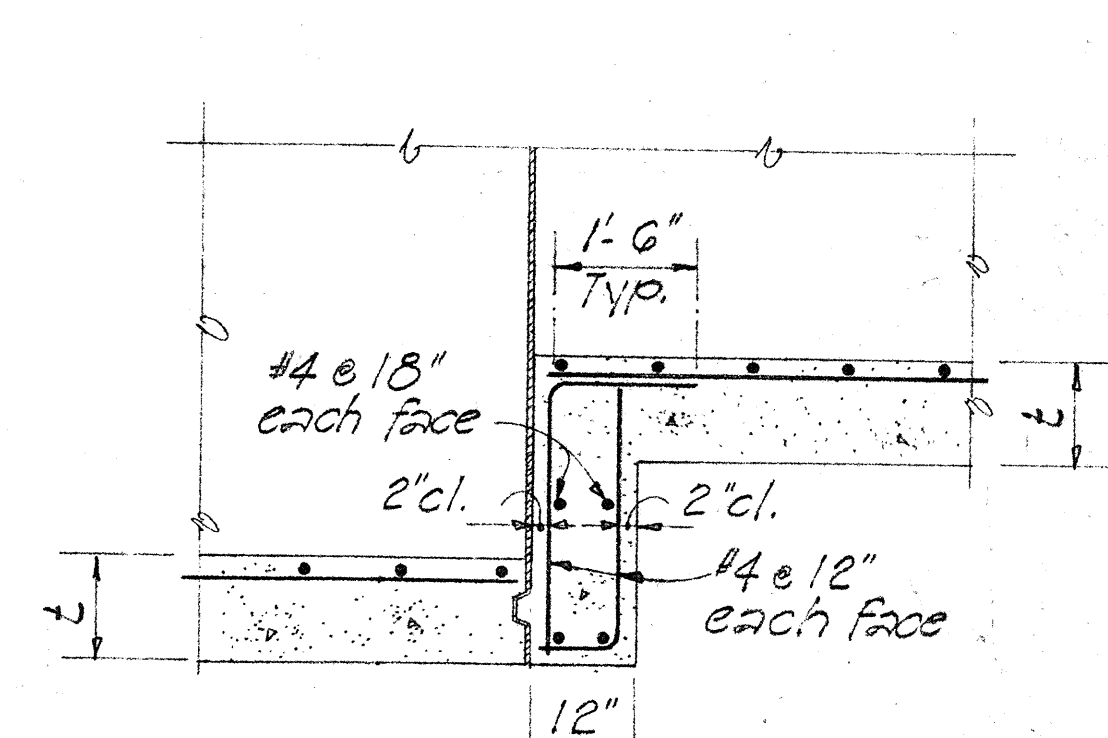
SECTION E-E



SECTION F-F



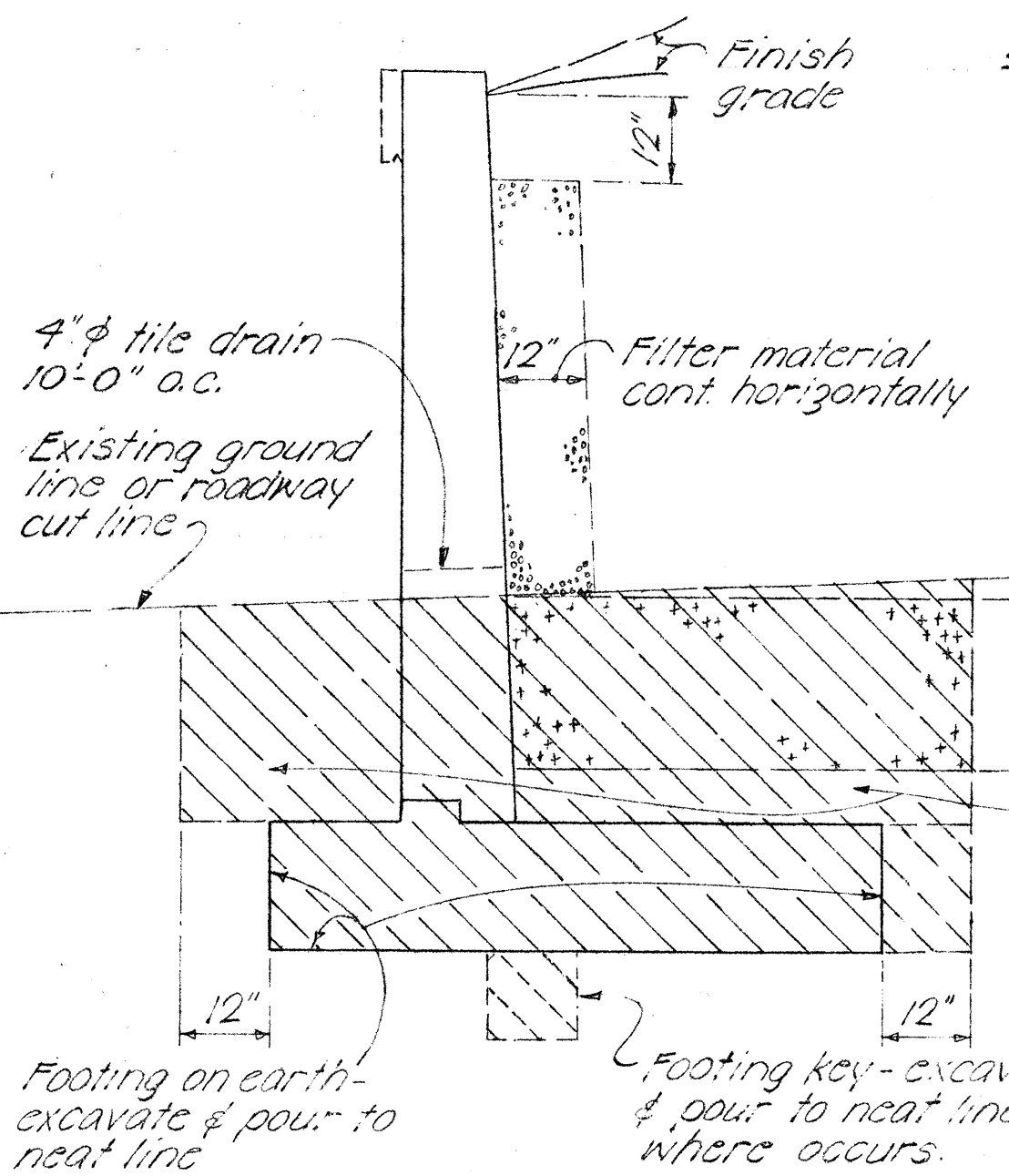
PLAN



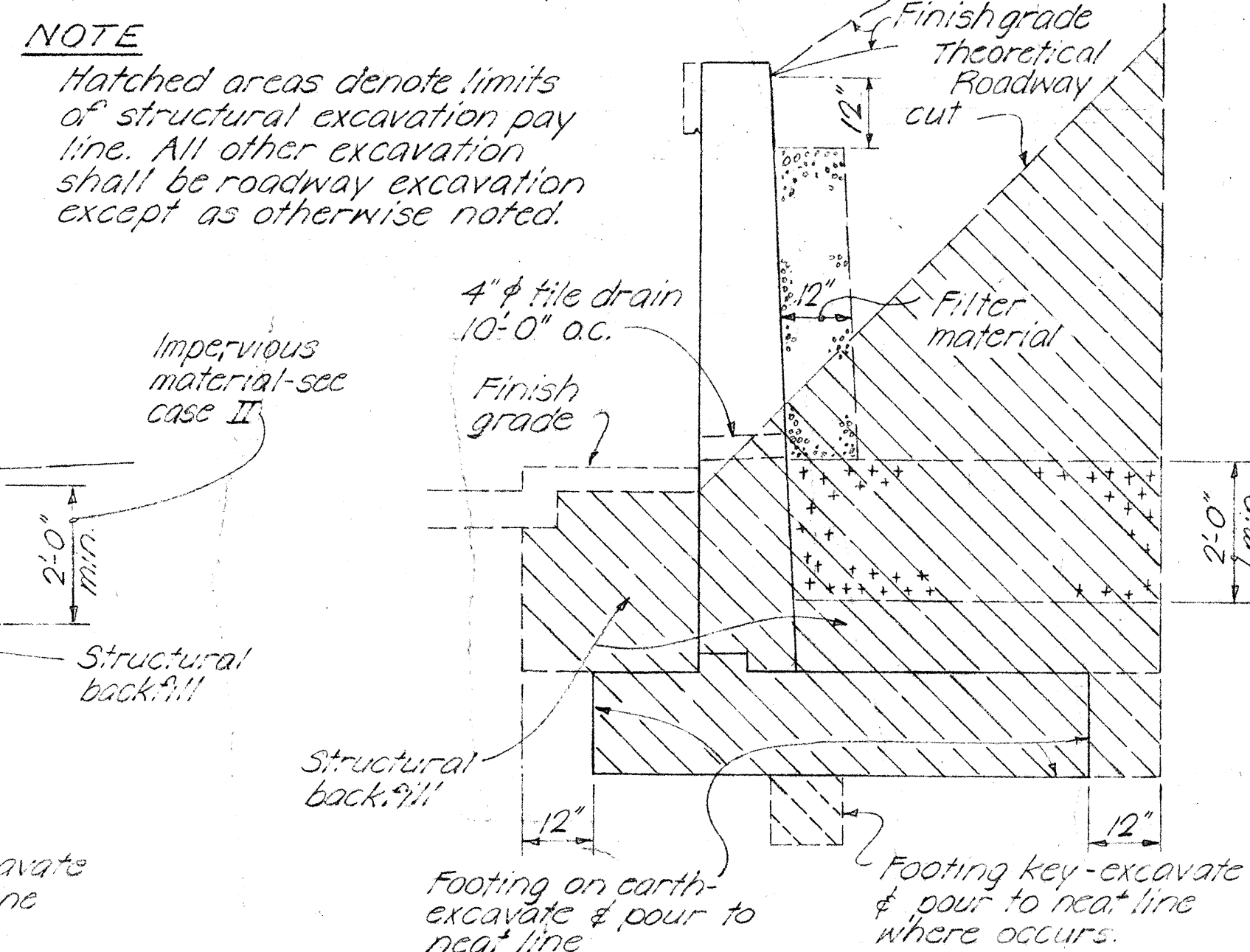
SECTION G-G

AT EXPANSION JOINT

TYPICAL FOOTING STEP-UP DETAILS No Scale



CASE I



CASE II

STRUCTURAL EXCAVATION & DRAINAGE DETAILS No Scale

NOTE

Hatched areas denote limits of structural excavation pay line. All other excavation shall be roadway excavation except as otherwise noted.

Impervious material as selected by the Engineer incidental to structural excavation. The subgrade upon which filter material is to be placed shall be made as impervious as possible by pneumatic tamping or other approved methods. Impervious material shall be incidental to roadway excavation or imported borrow when used in embankment area.

APPROVAL RECOMMENDED:
Paul T. Yamashita
BRIDGE DESIGN ENGINEER
1-23-70
DATE

APPROVED
Paul T. Yamashita
FOR ASSISTANT CHIEF, ENGINEERING
1-24-70
DATE

NO.	REVISION	APPROVED BY	DATE
1	Change note spacing of joints.	H.F.	2.4.72

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
RETAINING WALL TYPE T-1

SCALE AS NOTED DATE:
SHEET No. 2WOF 2WSHEETS DB-207-2