

ABBREVIATIONS AND SYMBOLS

N.F.	Near Face
F.F.	Far Face
E.F.	Each Face
cont.	Continuous
vert.	vertical
horiz.	Horizontal
bot.	bottom

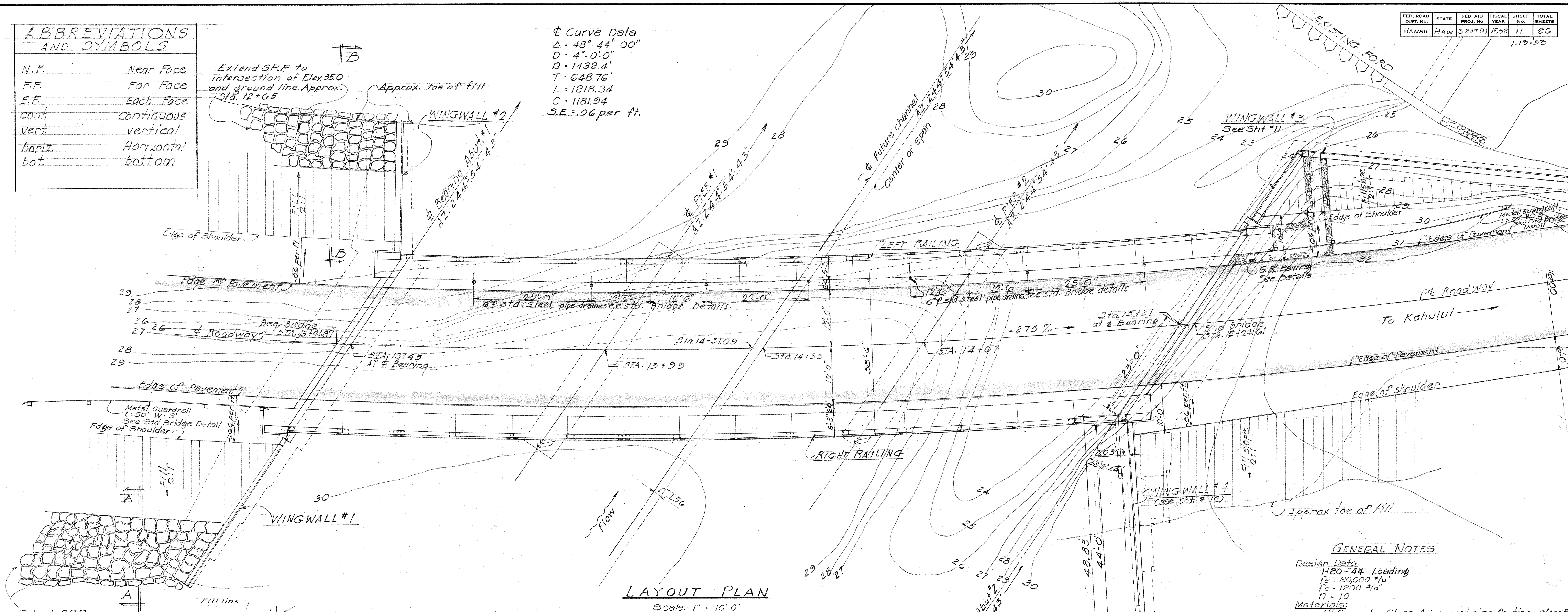
Extend G.R.P. to intersection of Elev. 35.0 and ground line. Approx. Sta. 12+6.5

Approx. toe of fill

Curve Data
 $\Delta = 48^\circ 44' 00''$
 $D = 4' 0' 0''$
 $R = 1432.4'$
 $T = 648.76'$
 $L = 1218.34'$
 $C = 1181.94'$
 $S.E. = .06 \text{ per ft.}$

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	5247(1)	1952	11	26

1.13.53



LAYOUT PLAN

Scale: 1" = 10'-0"

GENERAL NOTES

Design Data:

H20-44 Loading
 $f_s = 20,000 \text{ psi}$
 $f_c = 1200 \text{ psi}$
 $n = 10$

Materials:

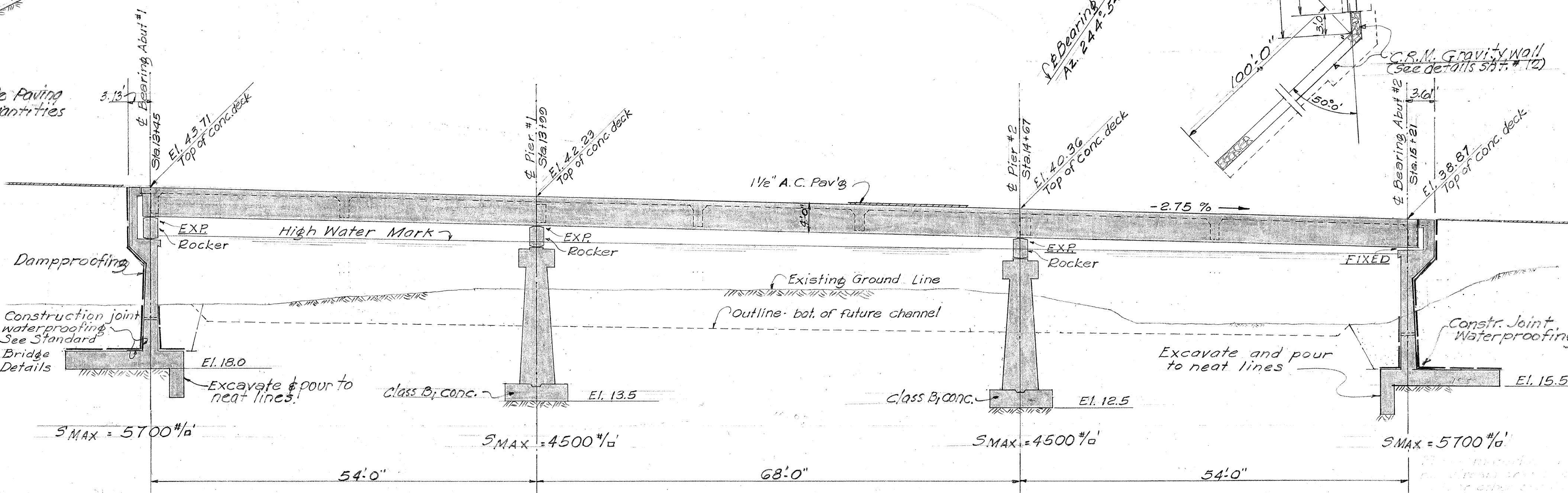
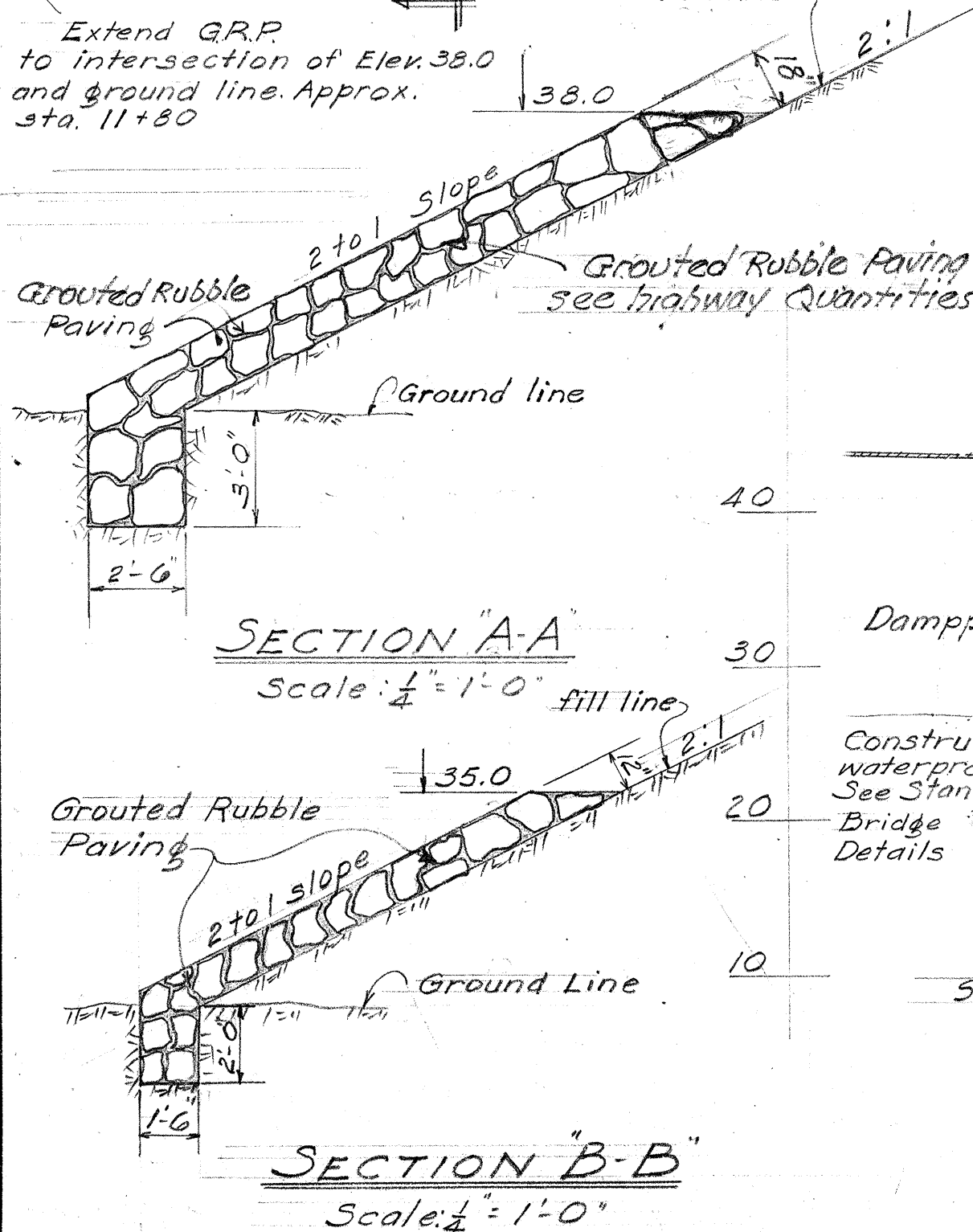
All Concrete, Class A-1 except pier footings, Class B.

Construction Methods:

All backfill behind abutments shall be complete in place before pouring concrete for the superstructure or the solid railing supported on retaining walls in the median strip area.
 Sidewalks shall be poured after release of falsework.
 Dampproofing shall be applied in accordance with Section 66 of the Standard Specifications.
 If contractor chooses a non-monolithic pour of girder and deck slab, he shall so notify the engineer for determination of shear keys.

Reference:

For estimated quantities see Sht #12



LONGITUDINAL SECTION ALONG &

Scale: 1" = 10'-0"

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII

IAO BRIDGE

STA. 13+41.87 TO STA. 15+24.61

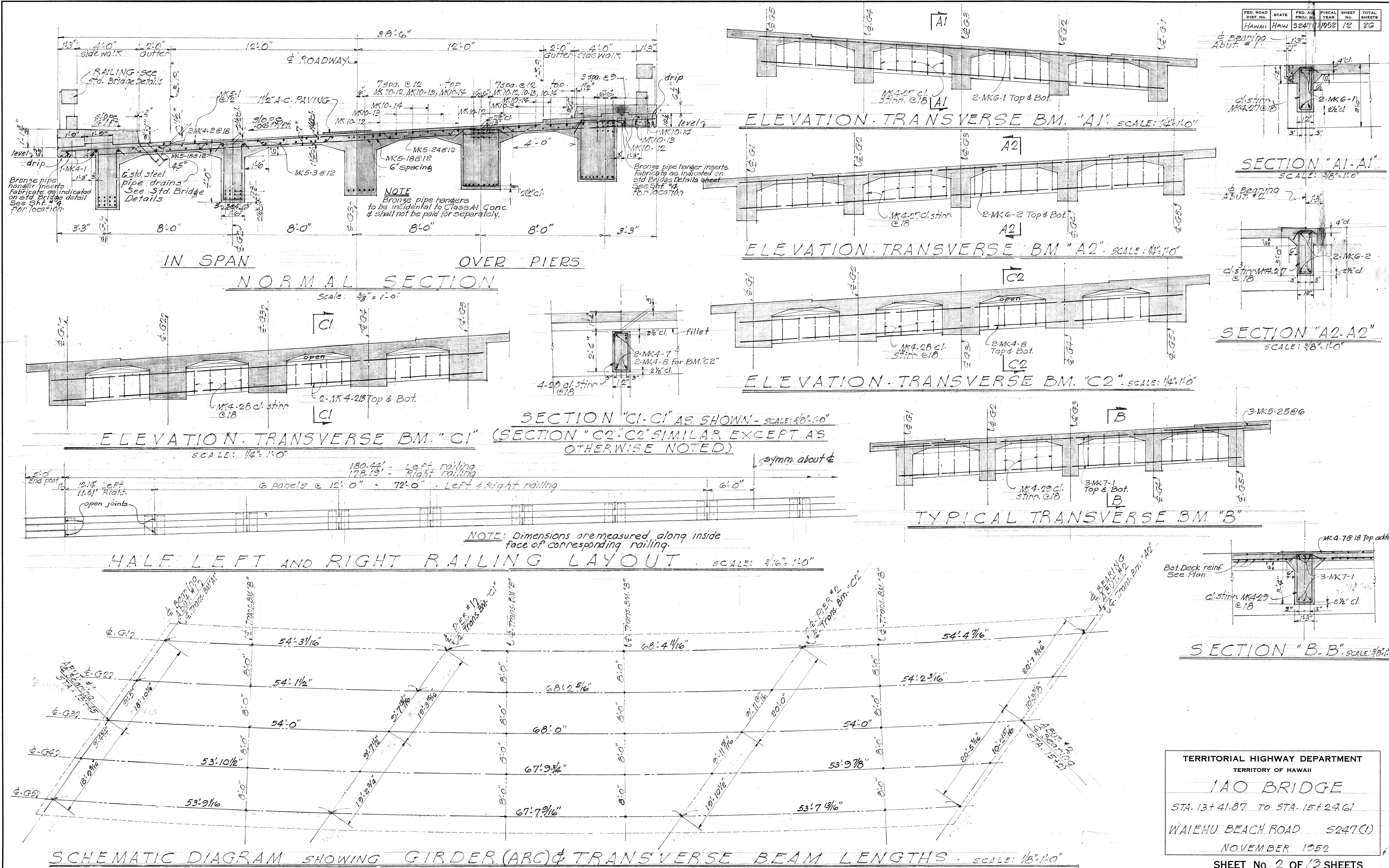
WAIHEHU BEACH ROAD 5247(1)

NOVEMBER 1952

SHEET No. 1 OF 13 SHEETS

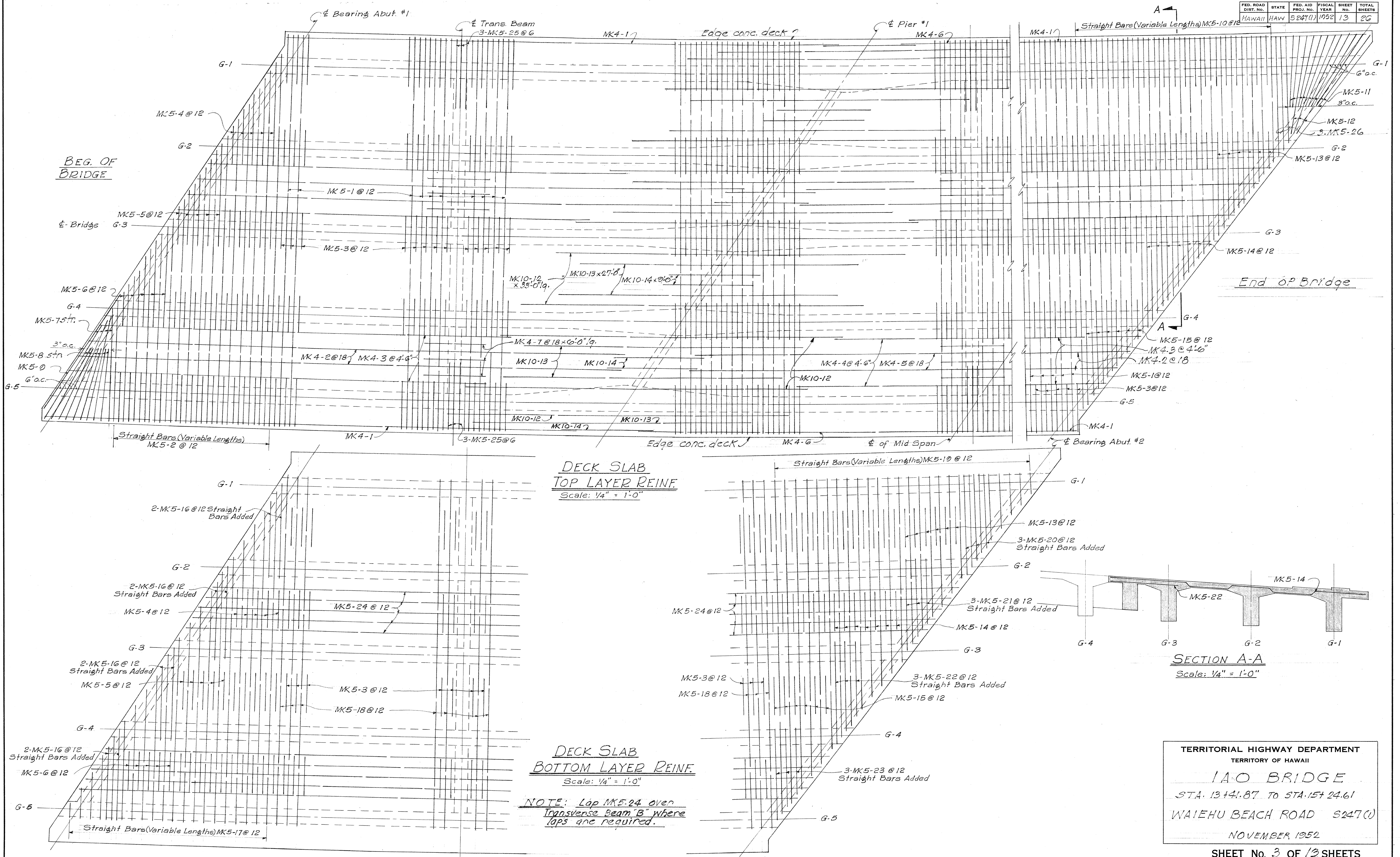
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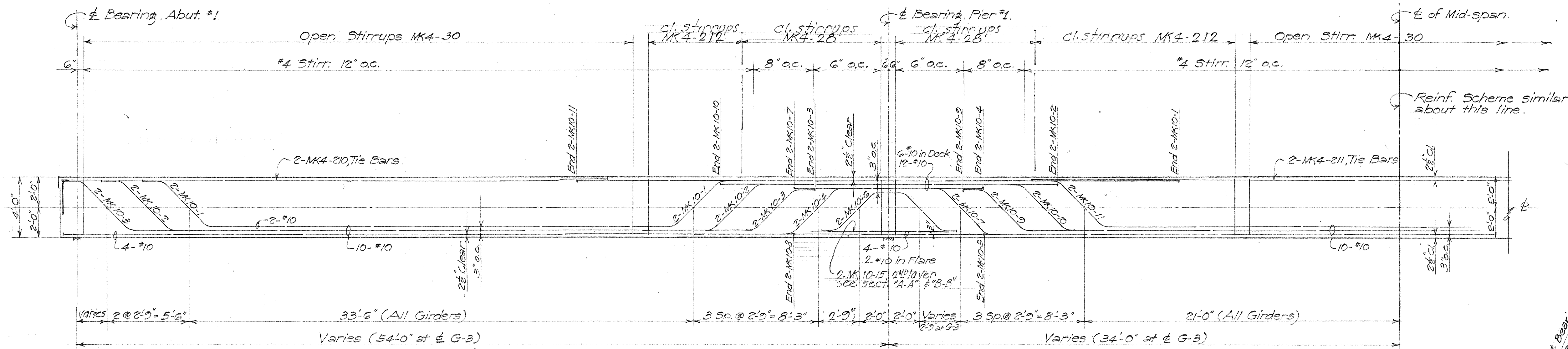
FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEET
HAWAII	HAW	524707	1952	12	26



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
1AO BRIDGE
STA. 13+41.87 TO STA. 15+24.61
WAIHEHU BEACH ROAD S247(1)
NOVEMBER 1952
SHEET No. 2 OF 13 SHEETS

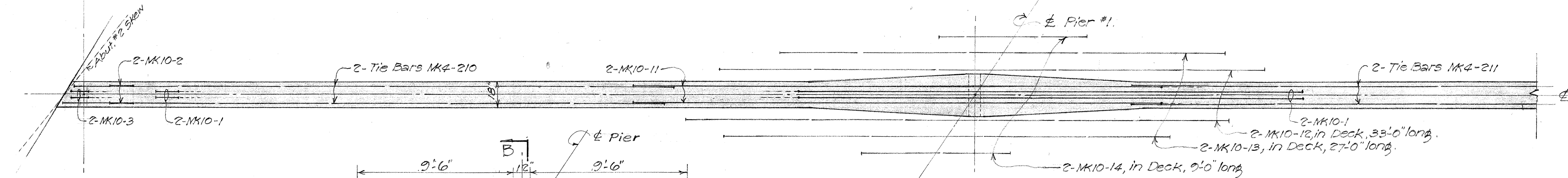
5587.12





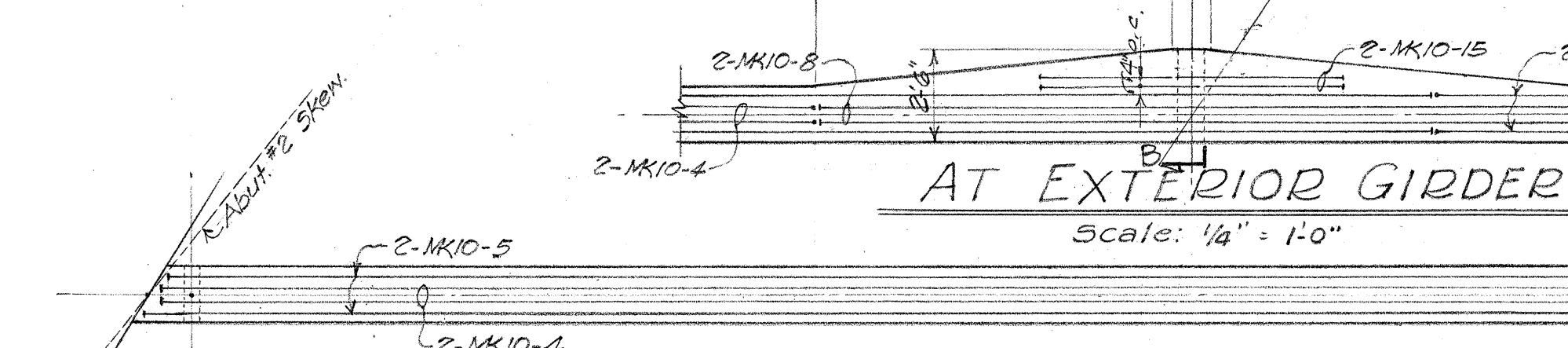
ELEVATION-TYPICAL HALF GIRDER REINFORCEMENT

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



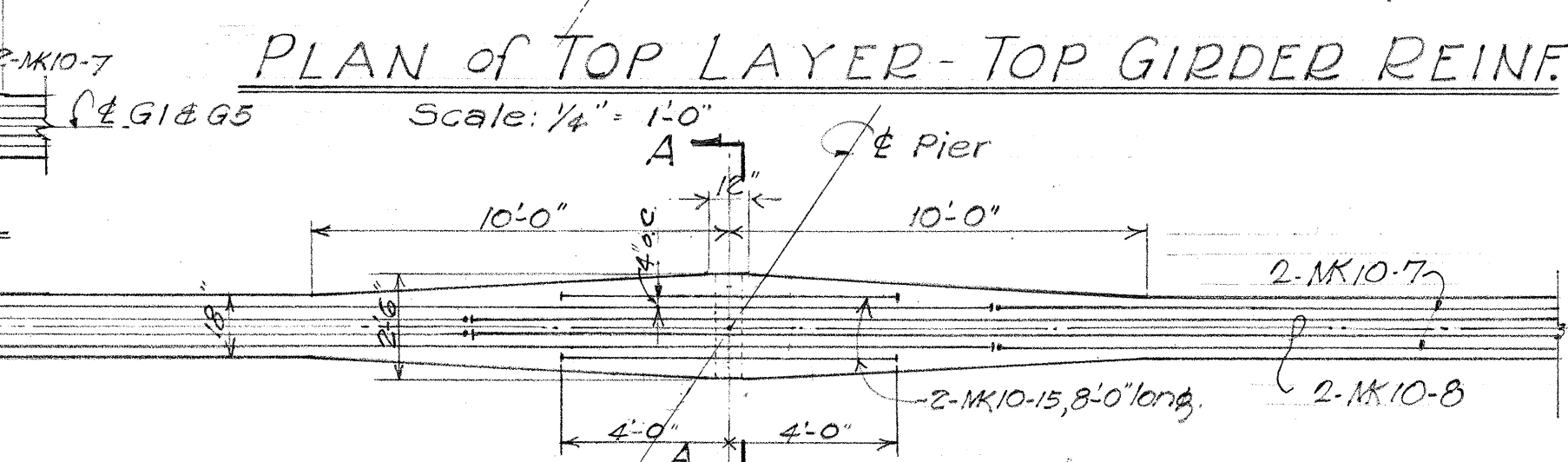
PLAN of TOP LAYER-TOP GIRDER REINF.

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



AT EXTERIOR GIRDER

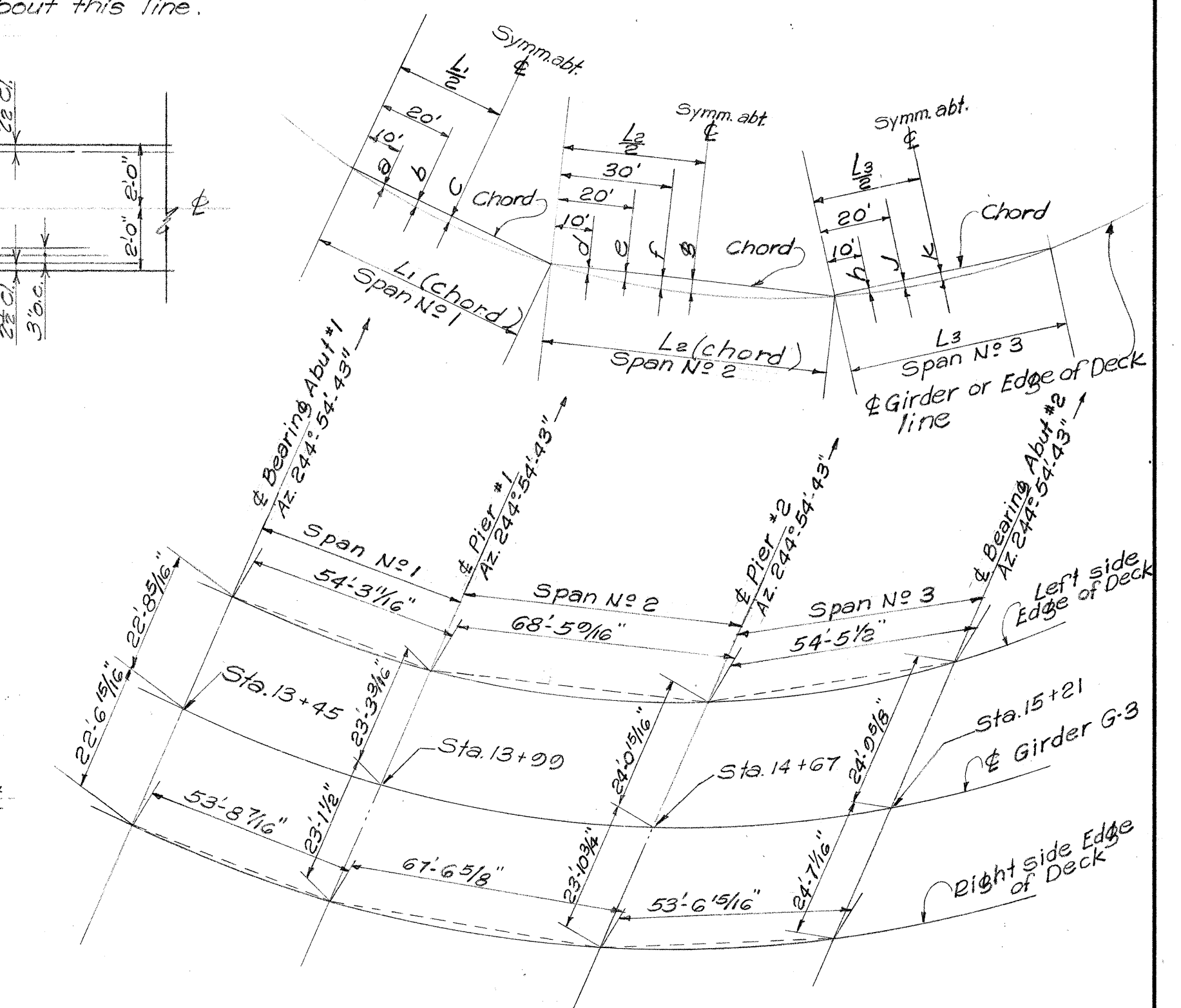
Scale: 1/4" = 1'-0"



AT INTERIOR GIRDER

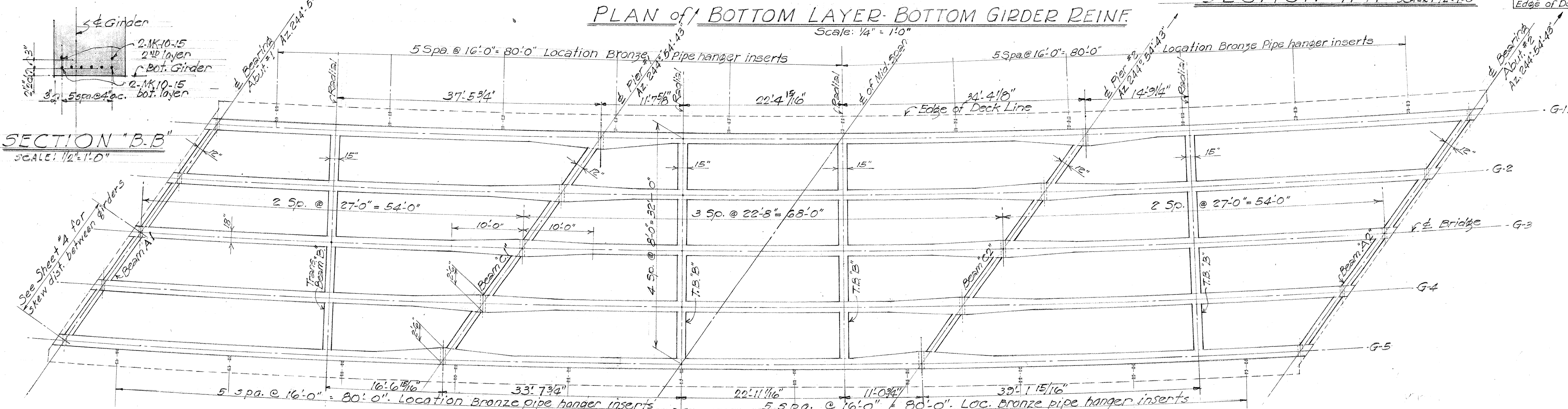
Scale: 1/4" = 1'-0"

PLAN of BOTTOM LAYER-BOTTOM GIRDER REINF.



CHORD OFFSETS FOR EDGE of DECK of GIRDERS
NOT TO SCALE

Span	No 1			No 2			No 3		
Point	a	b	c	d	e	f	g	h	j
Left side Edge of Deck	1 7/8"	2 1/8"	3 1/8"	2 1/2"	4 1/8"	4 7/8"	5"	1 7/8"	2 1/4"
of All Girders	1 7/8"	2 7/8"	3 1/4"	2 1/4"	4"	4 3/4"	4 1/4"	1 7/8"	2 7/8"
Right side Edge of Deck	1 1/8"	2 3/8"	3	2 3/8"	3 1/4"	4 1/4"	4 1/4"	1 1/4"	2 3/4"



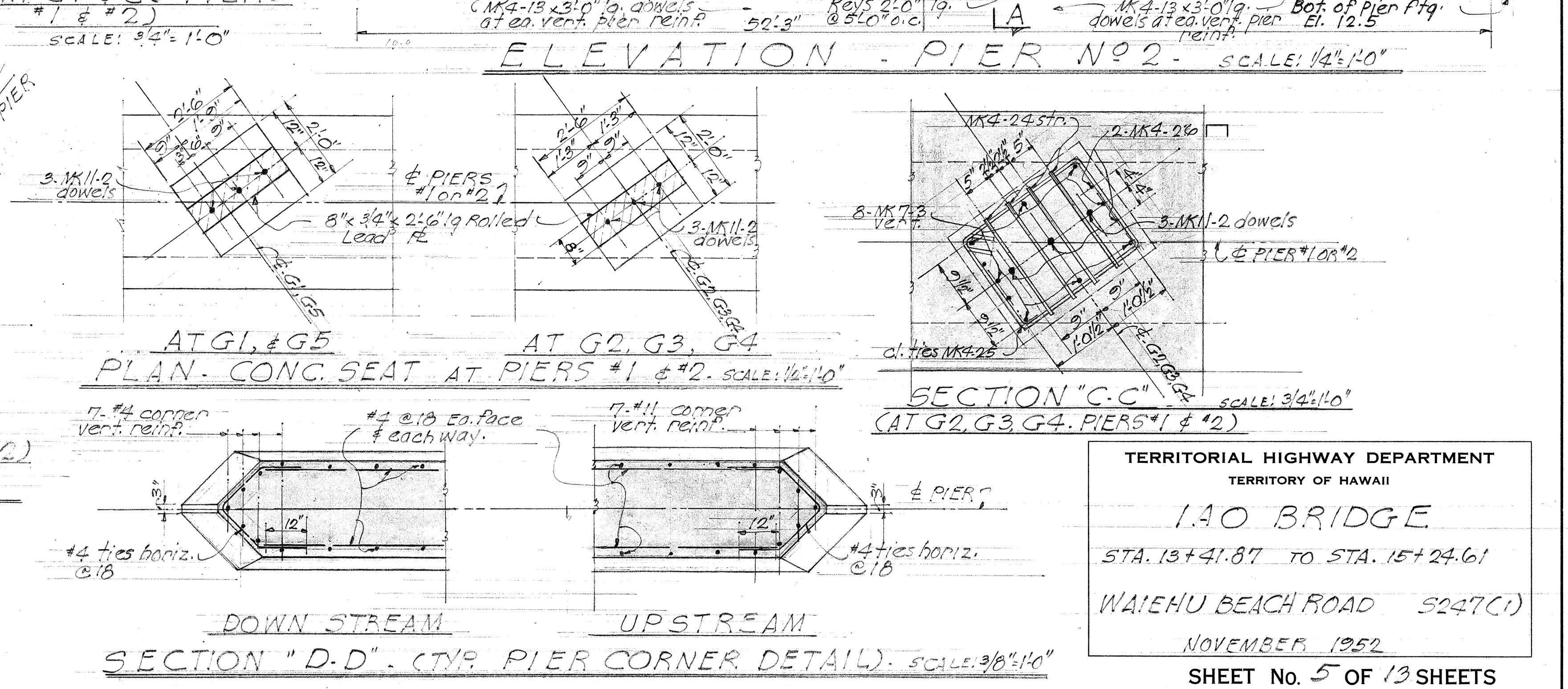
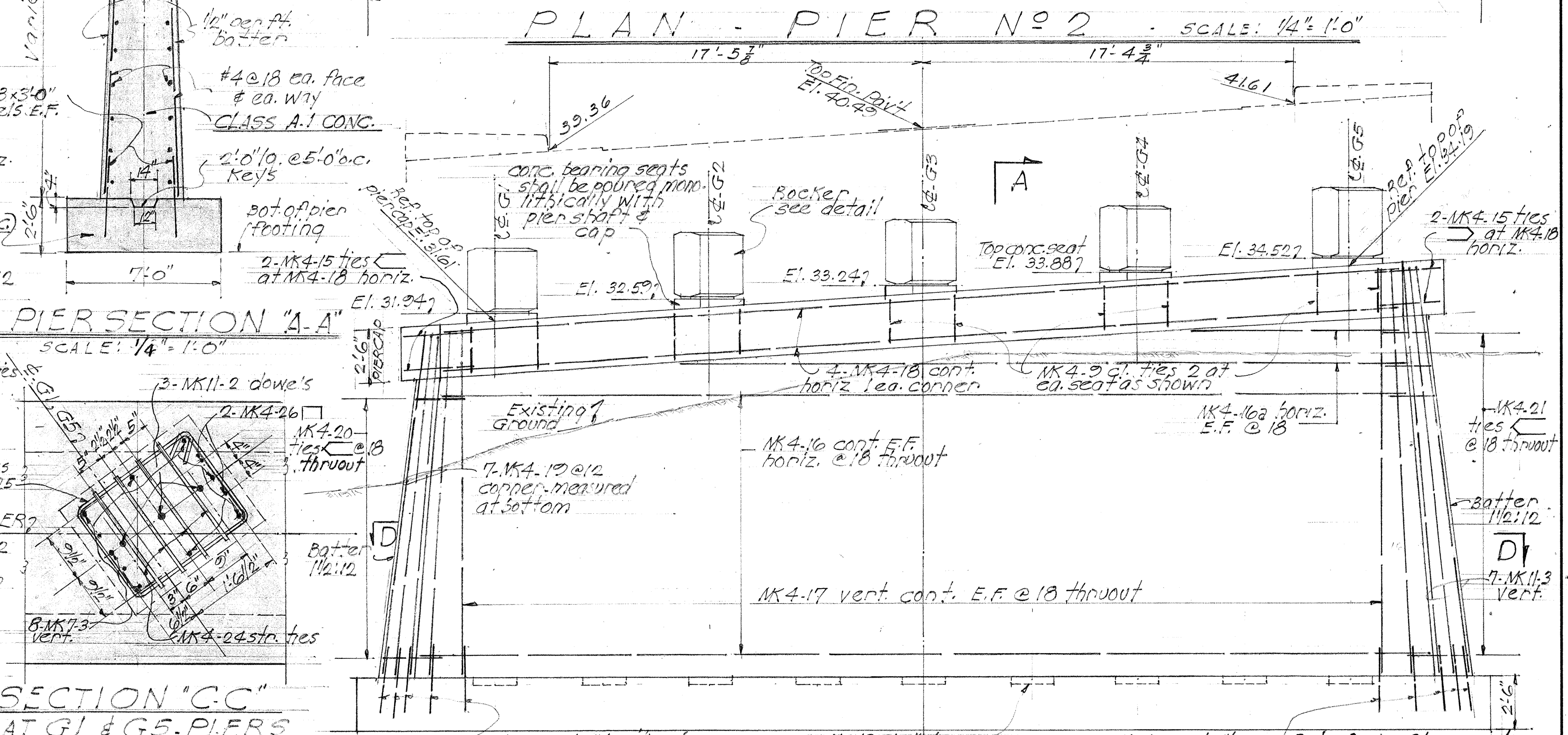
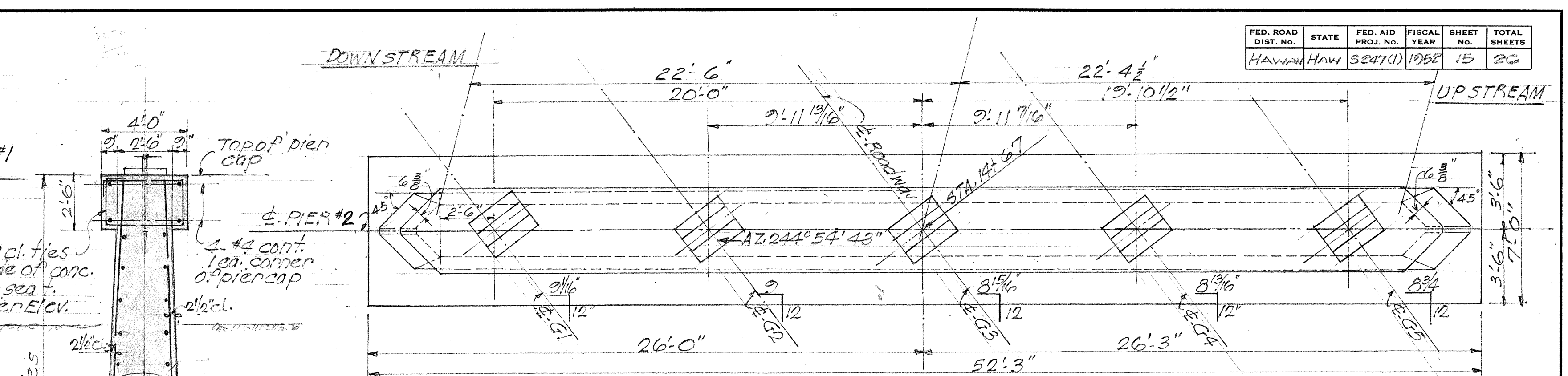
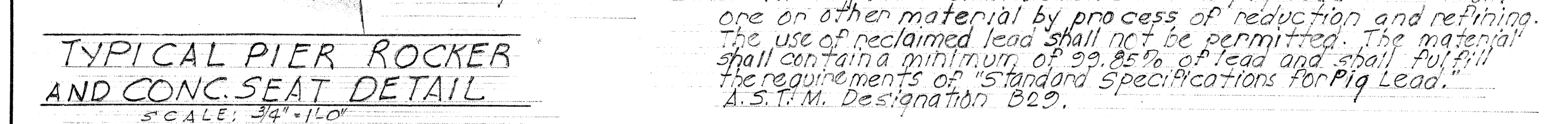
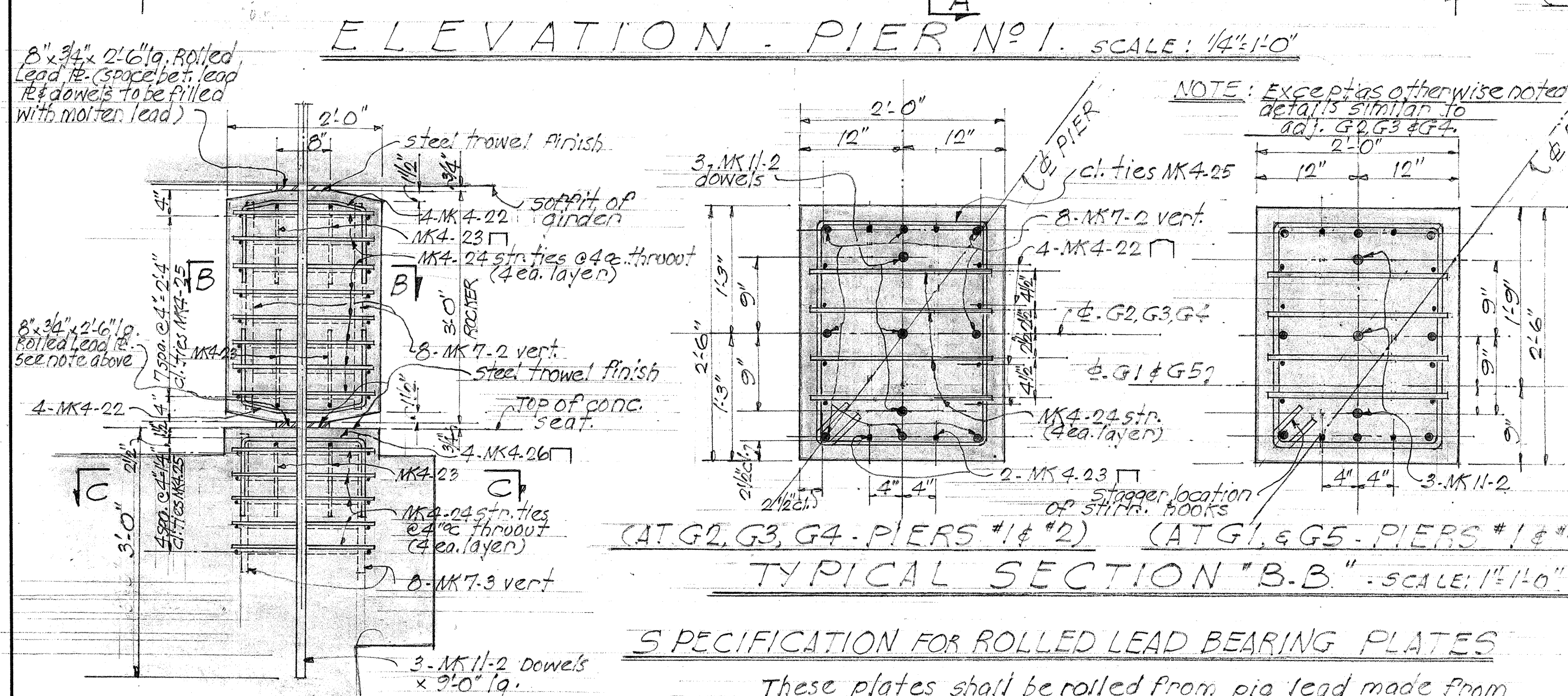
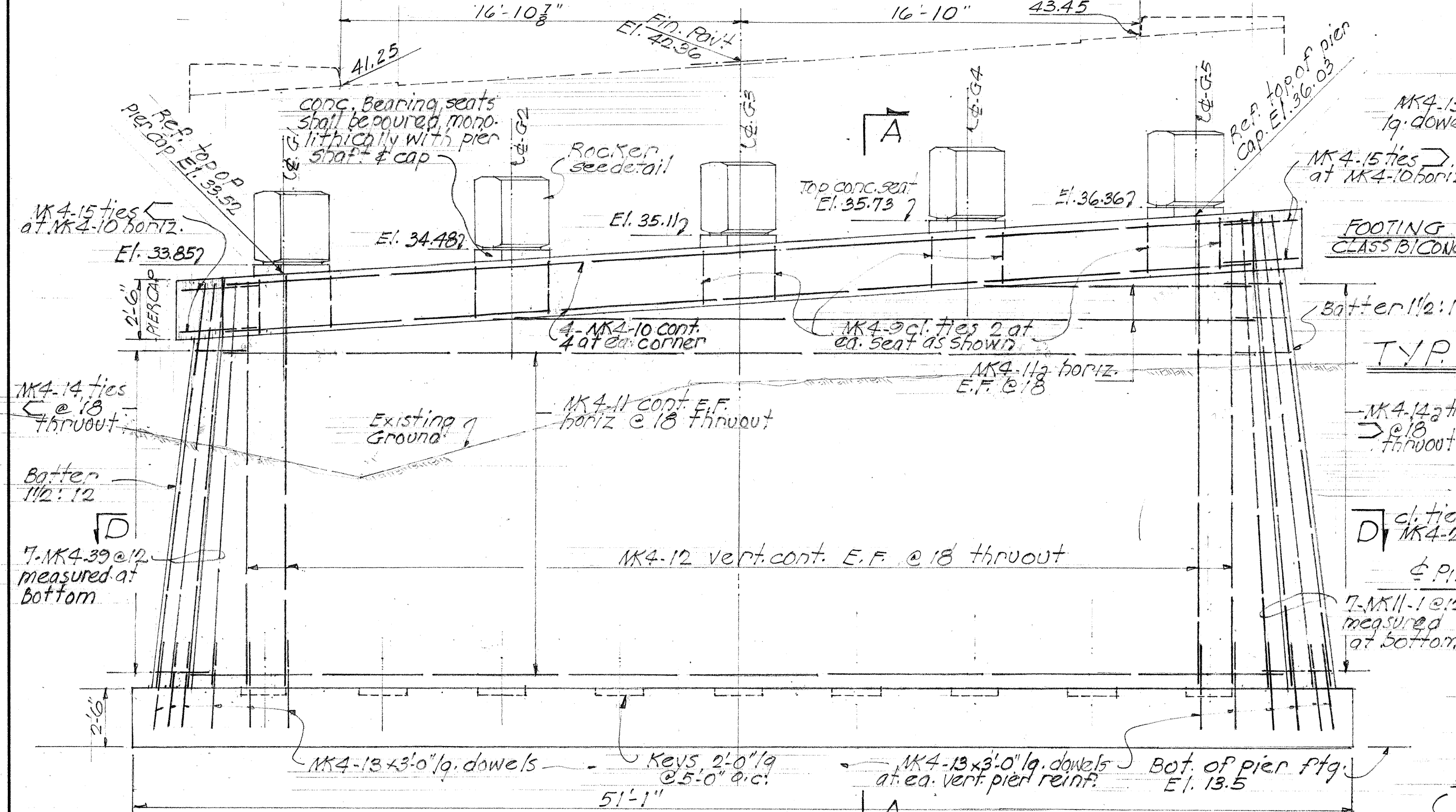
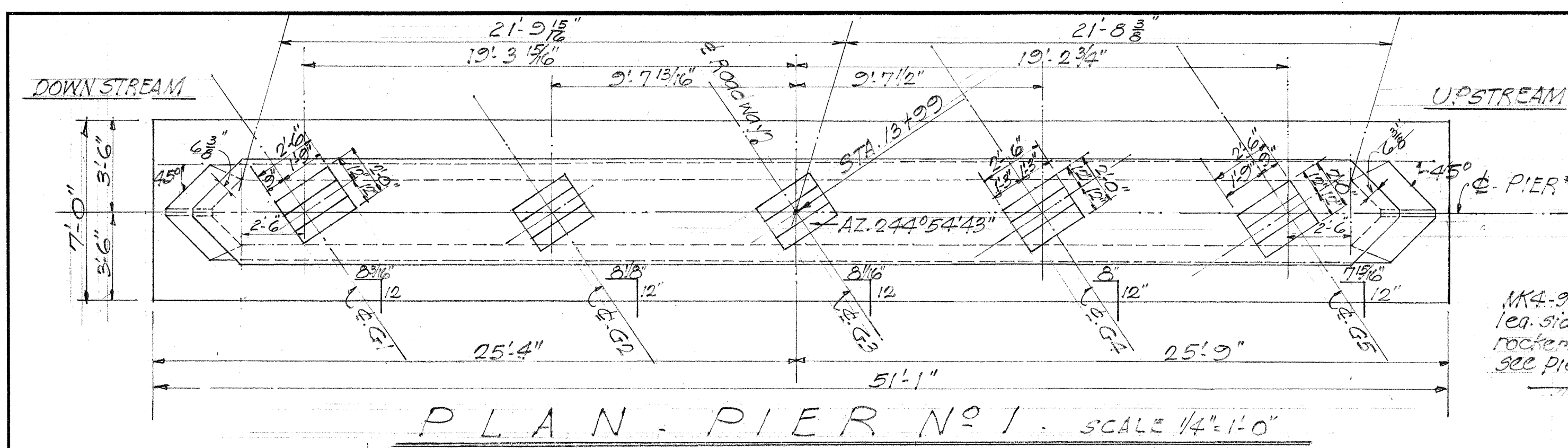
FRAMING PLAN

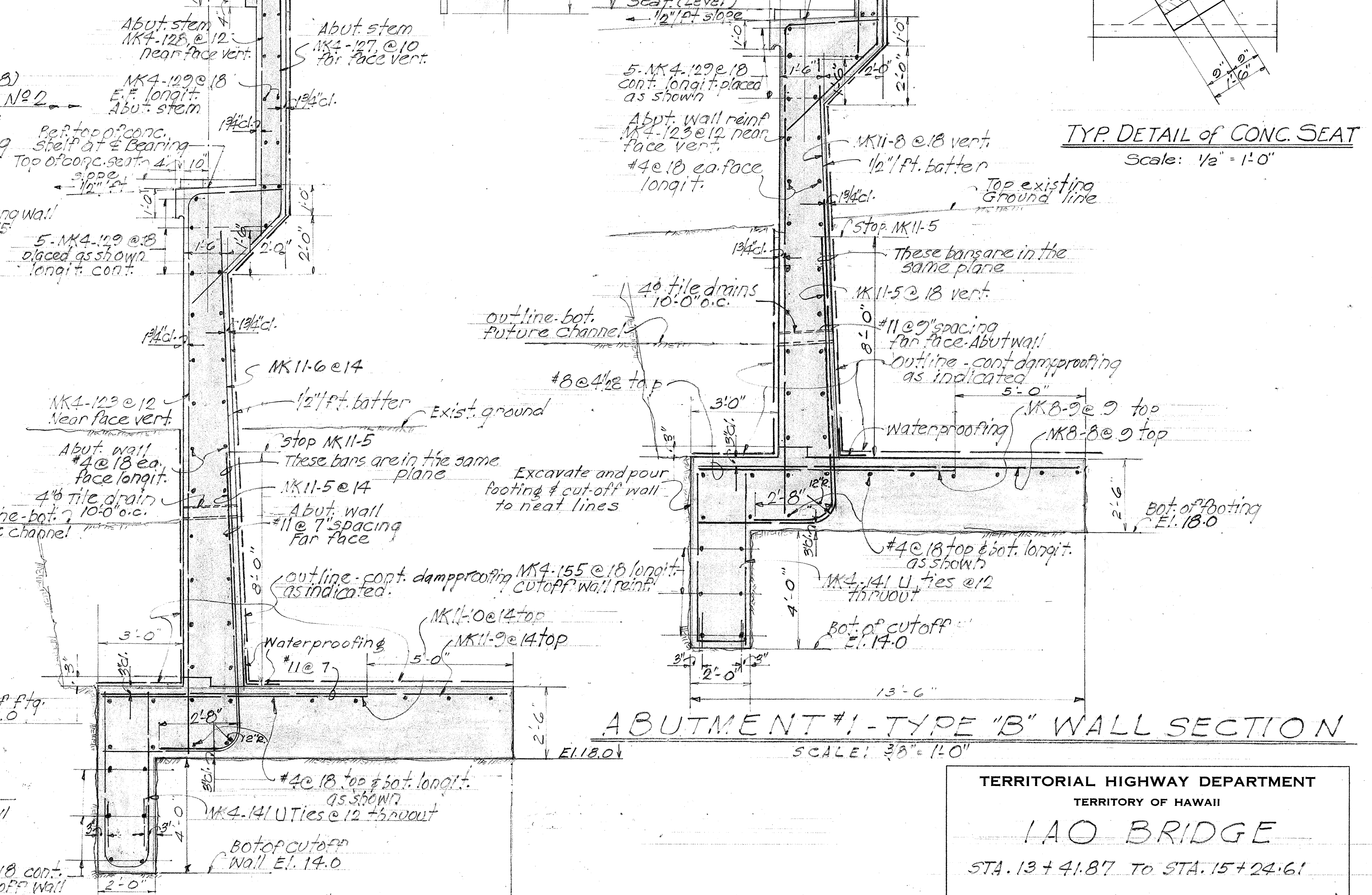
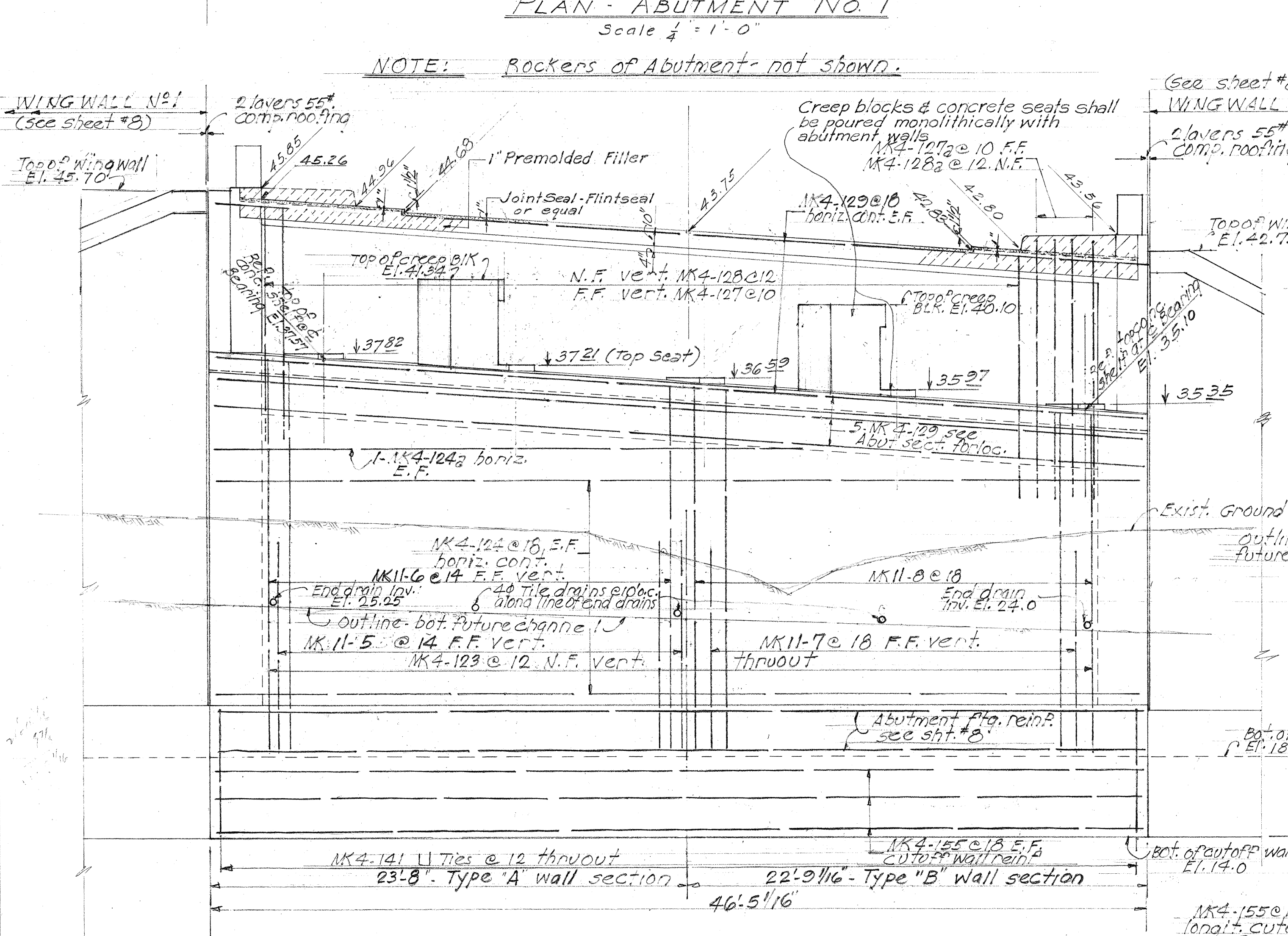
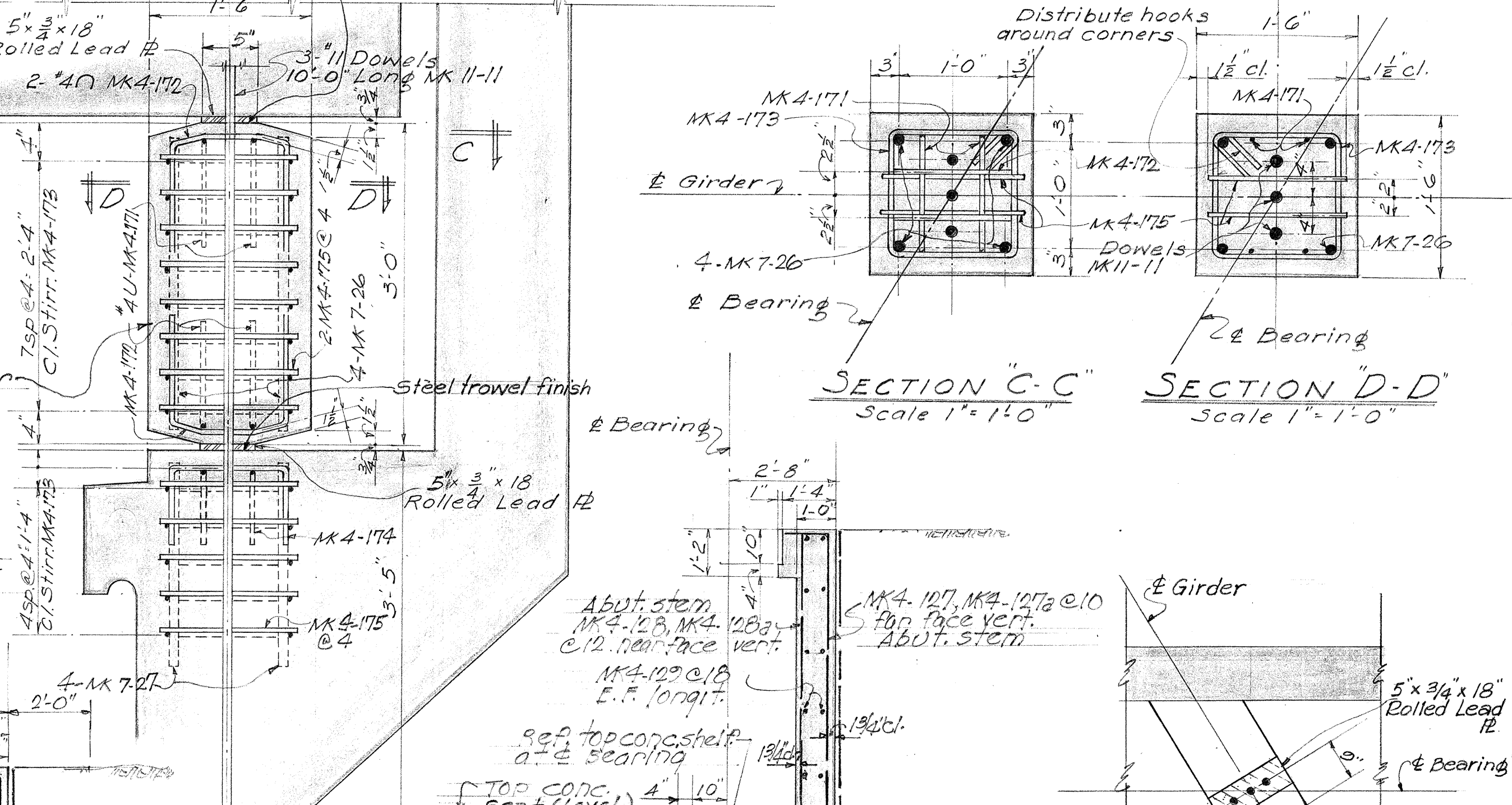
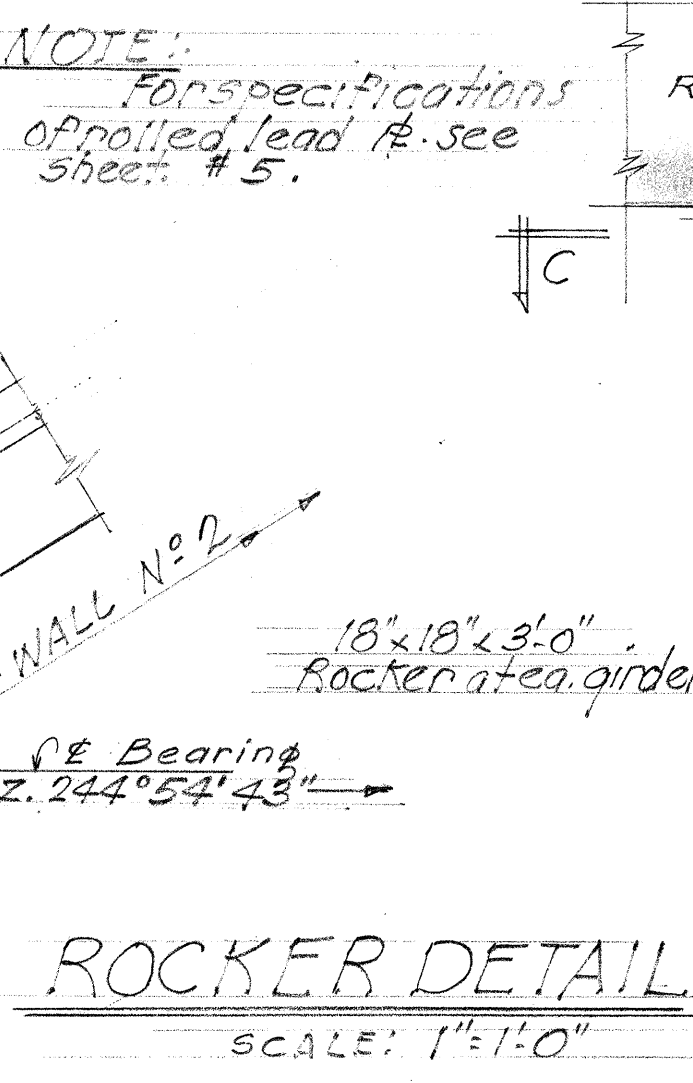
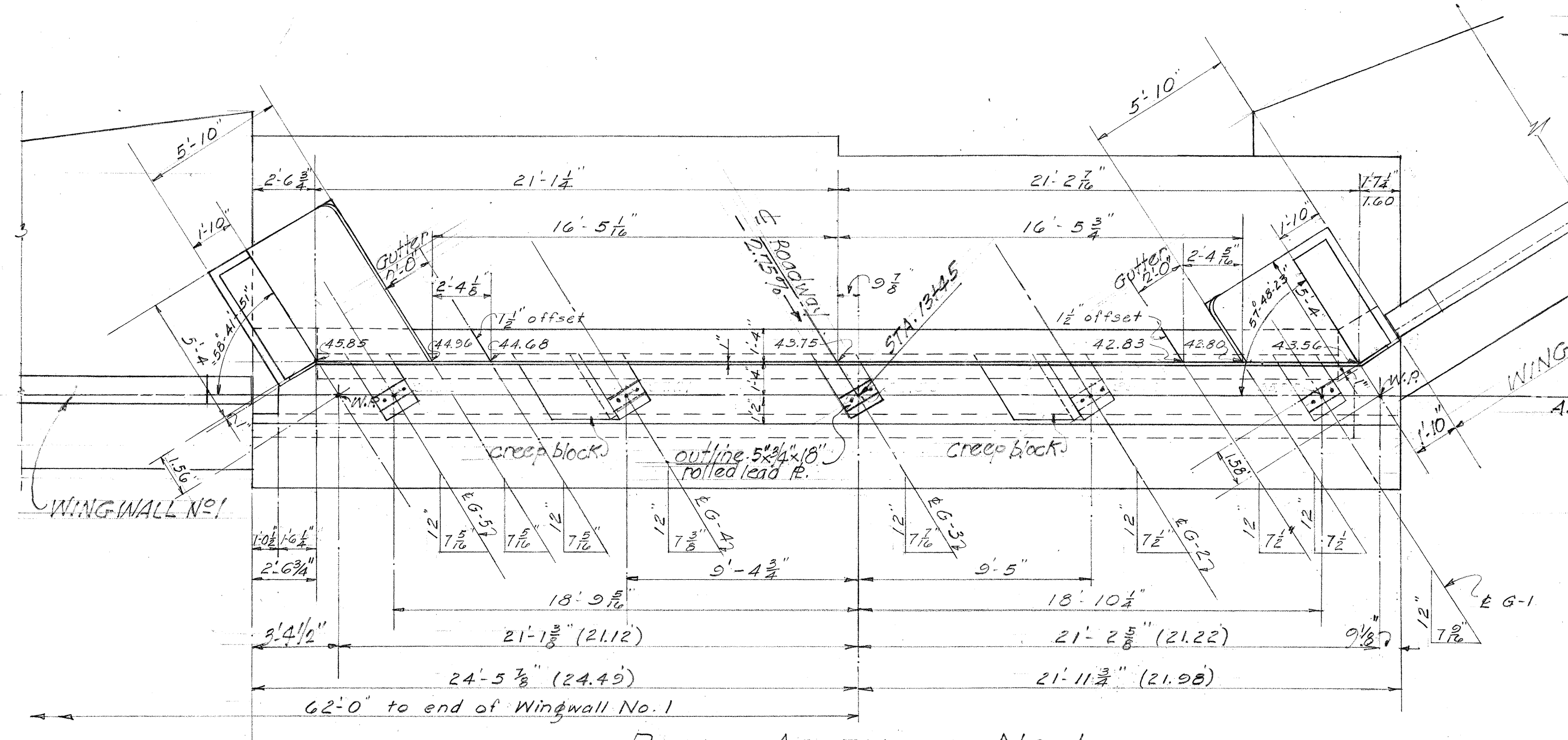
Scale: 1/8" = 1'-0"

NOTE: Superstructure shall conform to roadway curve.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
IAO BRIDGE
STA. 13+41.87 TO STA. 15+24.61
WAIHEHU BEACH ROAD S 247(1)
NOVEMBER 1952
SHEET No. 4 OF 13 SHEETS

5587.14





TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

140 BRIDGE

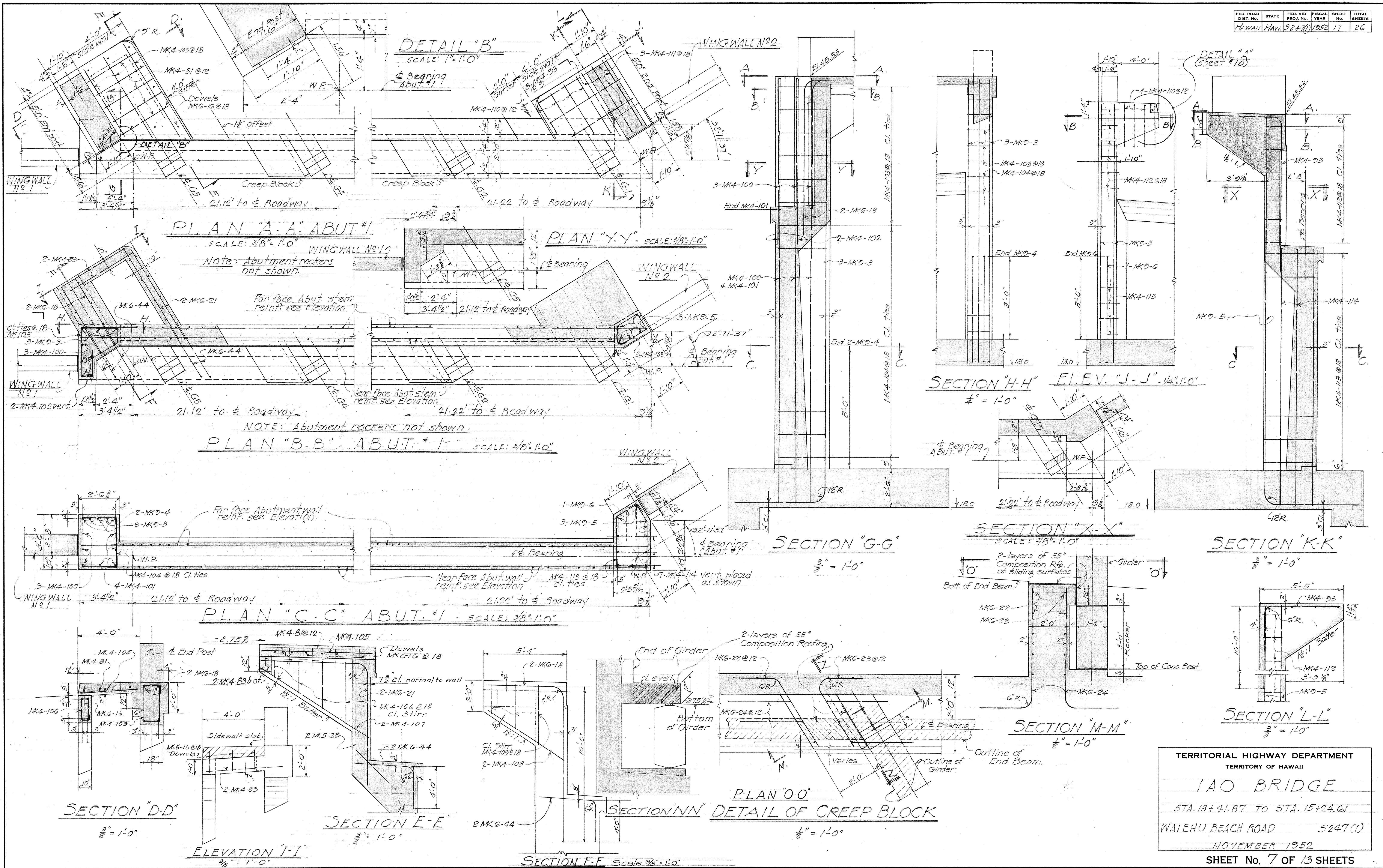
STA. 13 + 41.87 TO STA. 15 + 24.61

WALEHU BEACH ROAD 5247(1)

NOVEMBER 1952

SHEET NO. 6 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	5247(1)	1952	17	26



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

1A0 BRIDGE

STA. 13+41.87 TO STA. 15+24.61

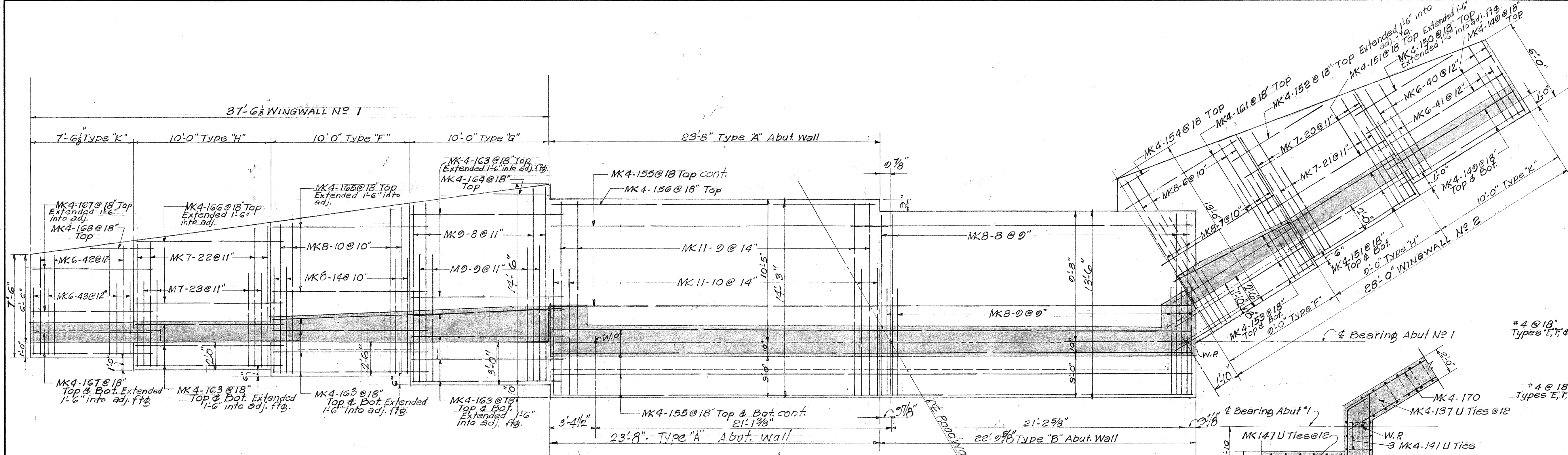
WAIHEHU BEACH ROAD S247(1)

NOVEMBER 1952

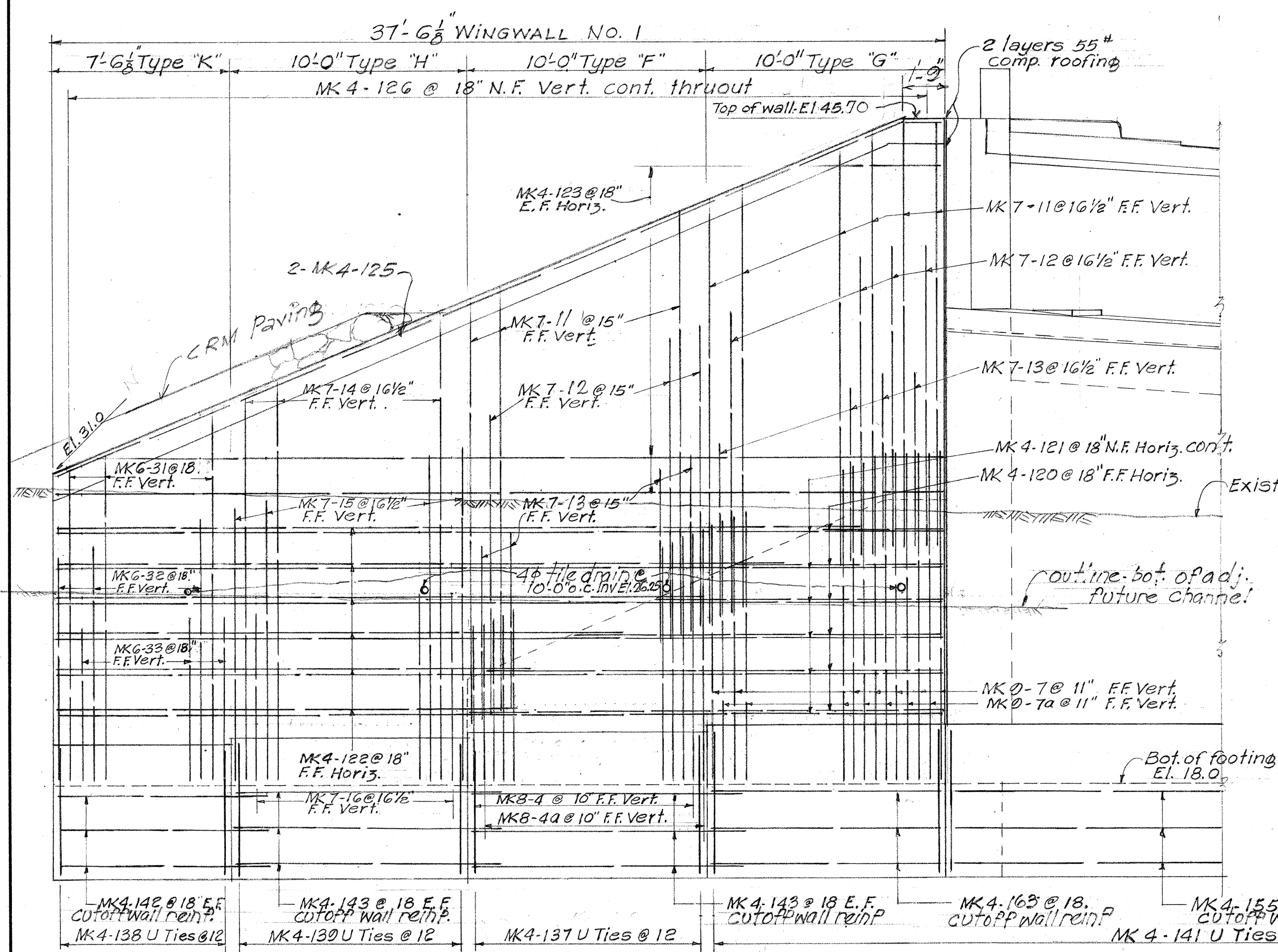
SHEET No. 7 OF 13 SHEETS

5587.17

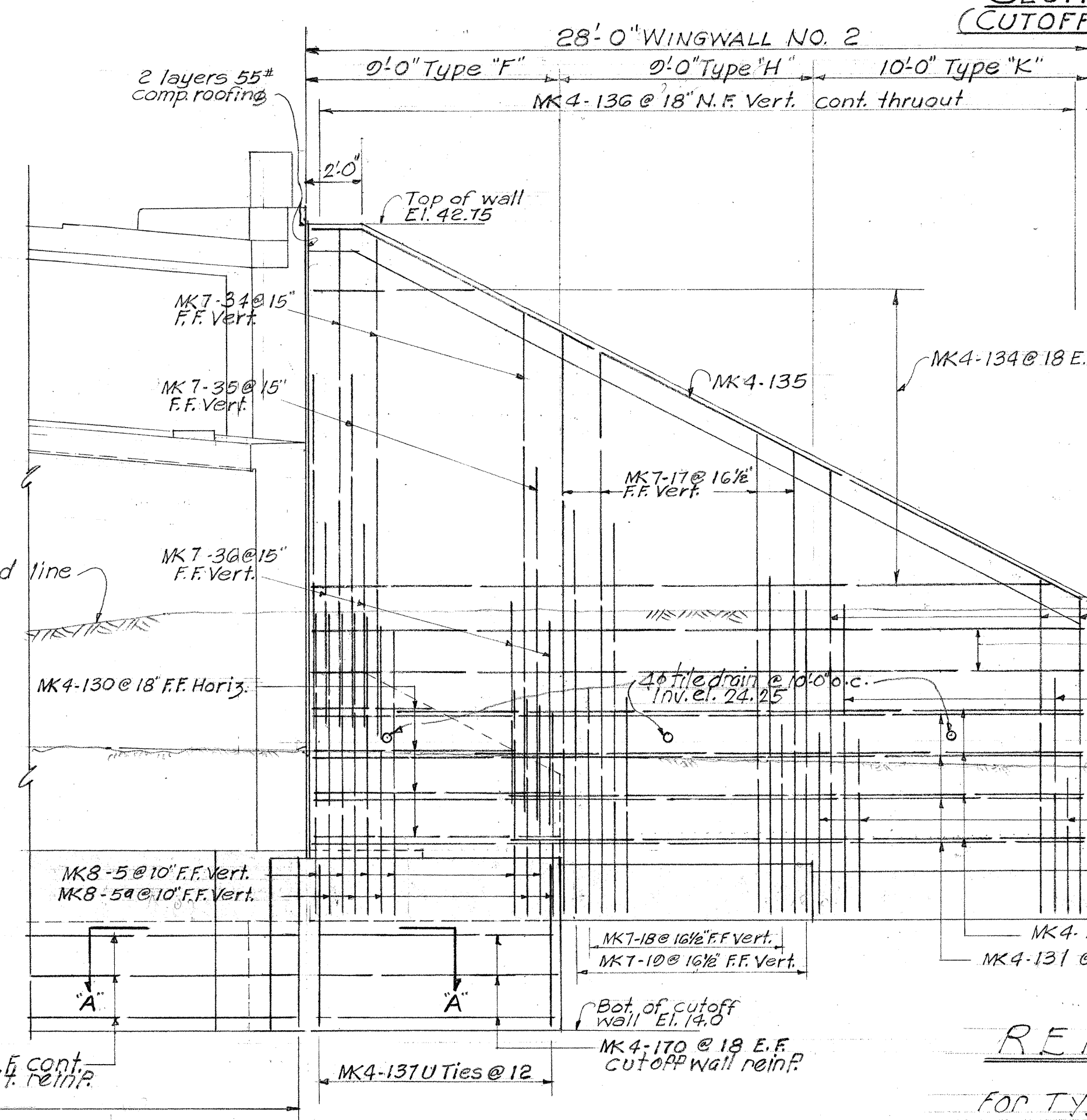
DATE: 11-1-52
DESIGNED BY: R. KAWANUKA
DRAWN BY: R. KAWANUKA
CHECKED BY: R. KAWANUKA
NO. 1



PLAN ABUTMENT NO 1 FOOTING REINFORCEMENT scale: 1/4" = 1'-0"

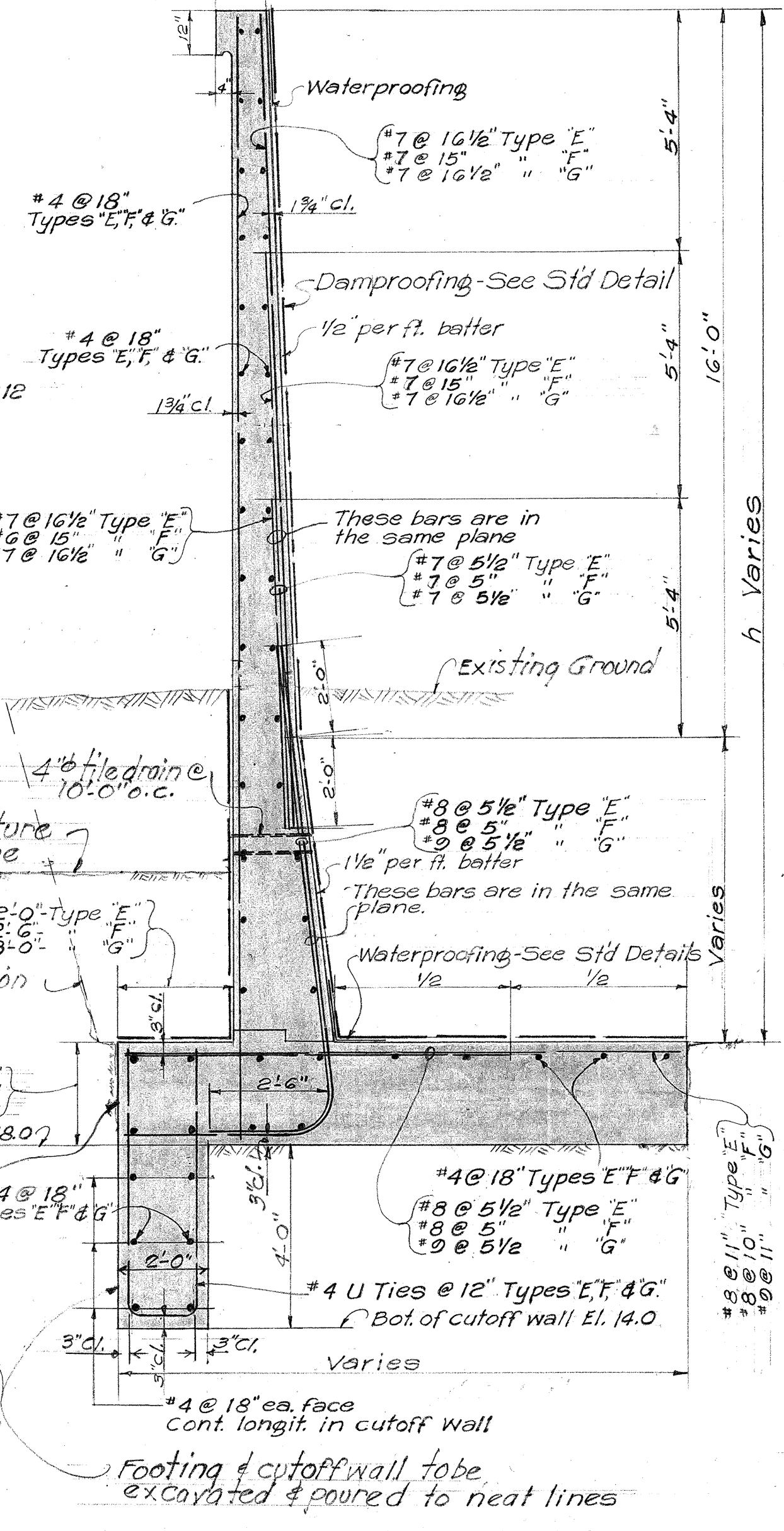


ELEVATION - WINGWALL NO 1 scale: 1/4" = 1'-0"



ELEVATION - WINGWALL NO 2 scale: 1/4" = 1'-0"

SECTION 'A-A' scale 1/4" = 1'-0" (CUTOFF WALL CORNER DET.)



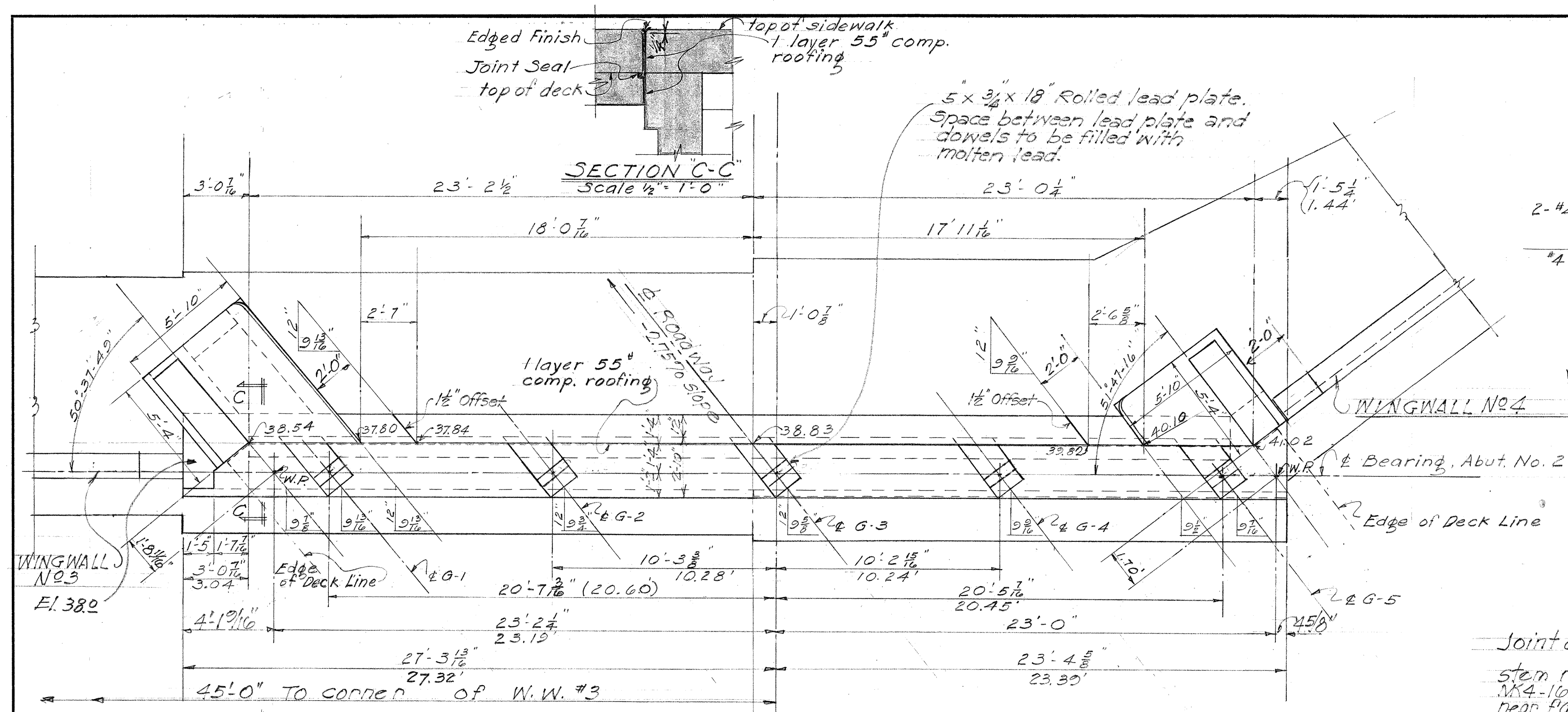
TYPICAL WALL SECTION TYPES 'E', 'F' & 'G' scale: 3/8" = 1'-0"

REFERENCE NOTES

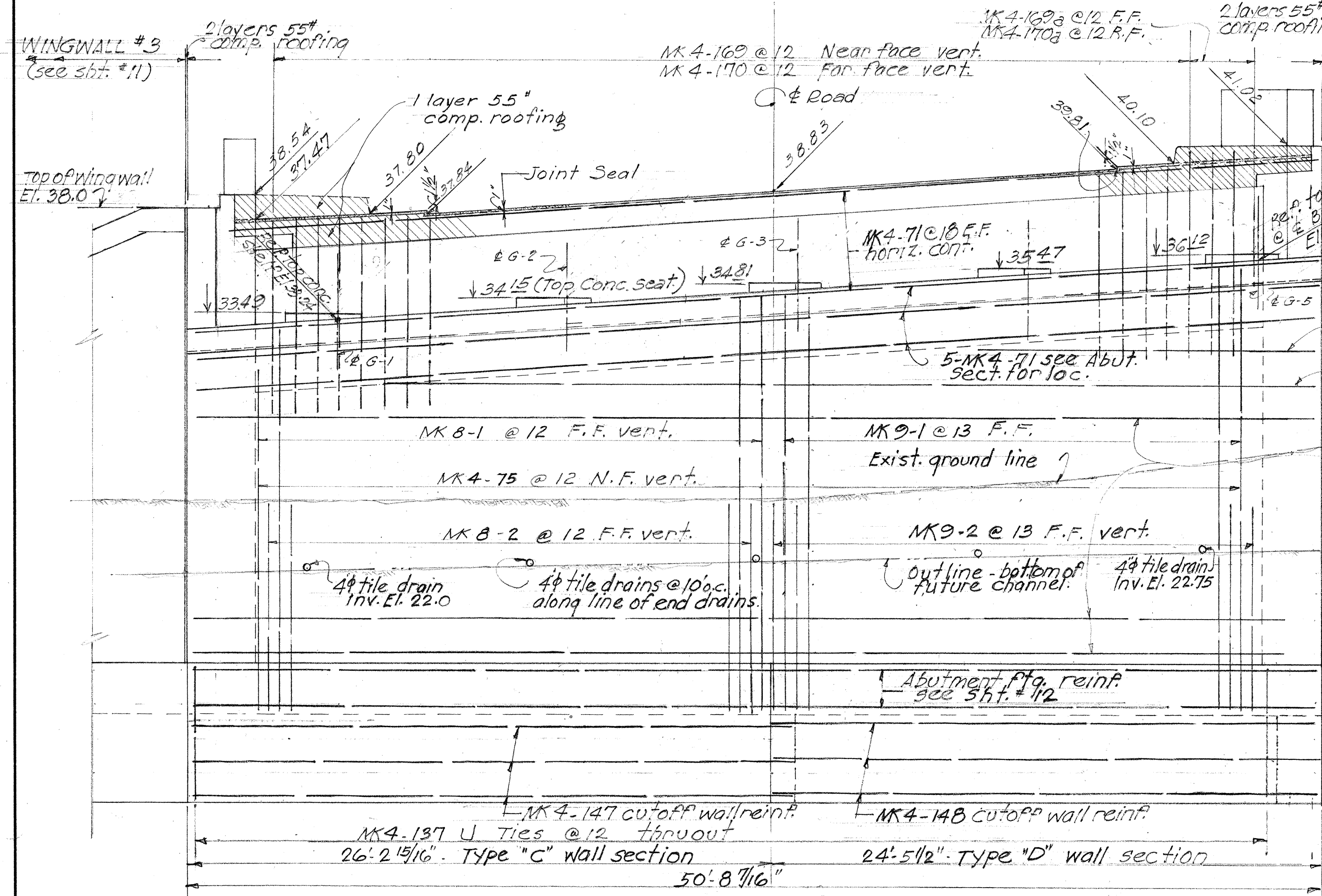
For Typical Wingwall sections see sht. # 12
For Abut. Wall sections Types 'A' & 'B' see sht. # 6

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
140 BRIDGE
STA. 13+41.87 TO STA. 15+24.61
WAIHEHU BEACH ROAD 5247(1)
NOVEMBER 1952
SHEET No. 8 OF 13 SHEETS

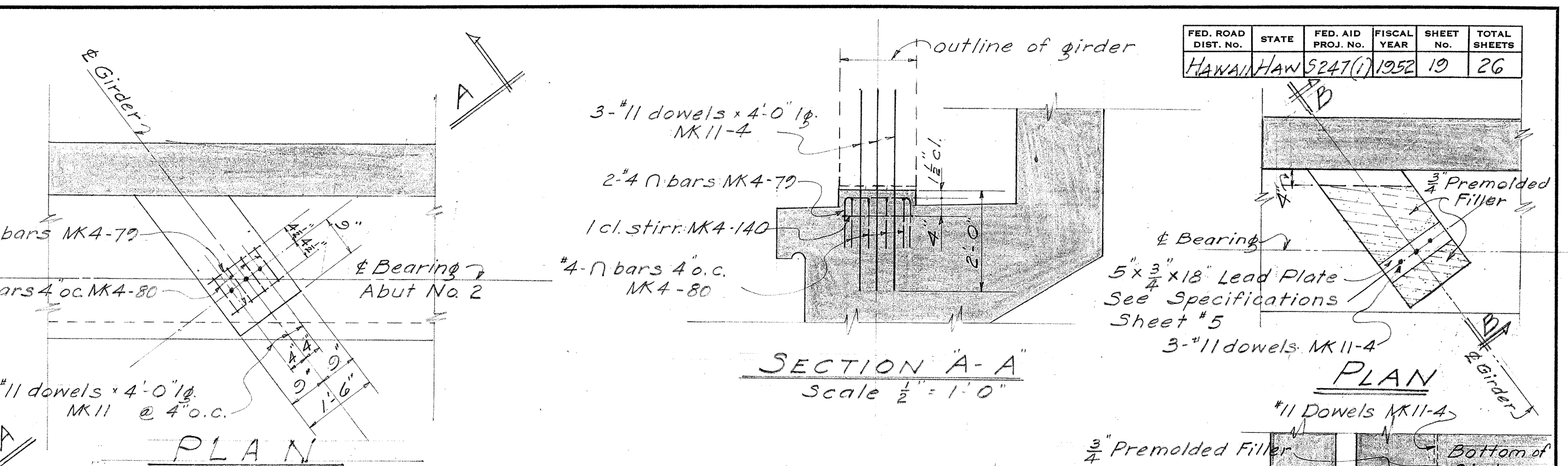
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAIIAN	HA	247(1)	1952	19	26



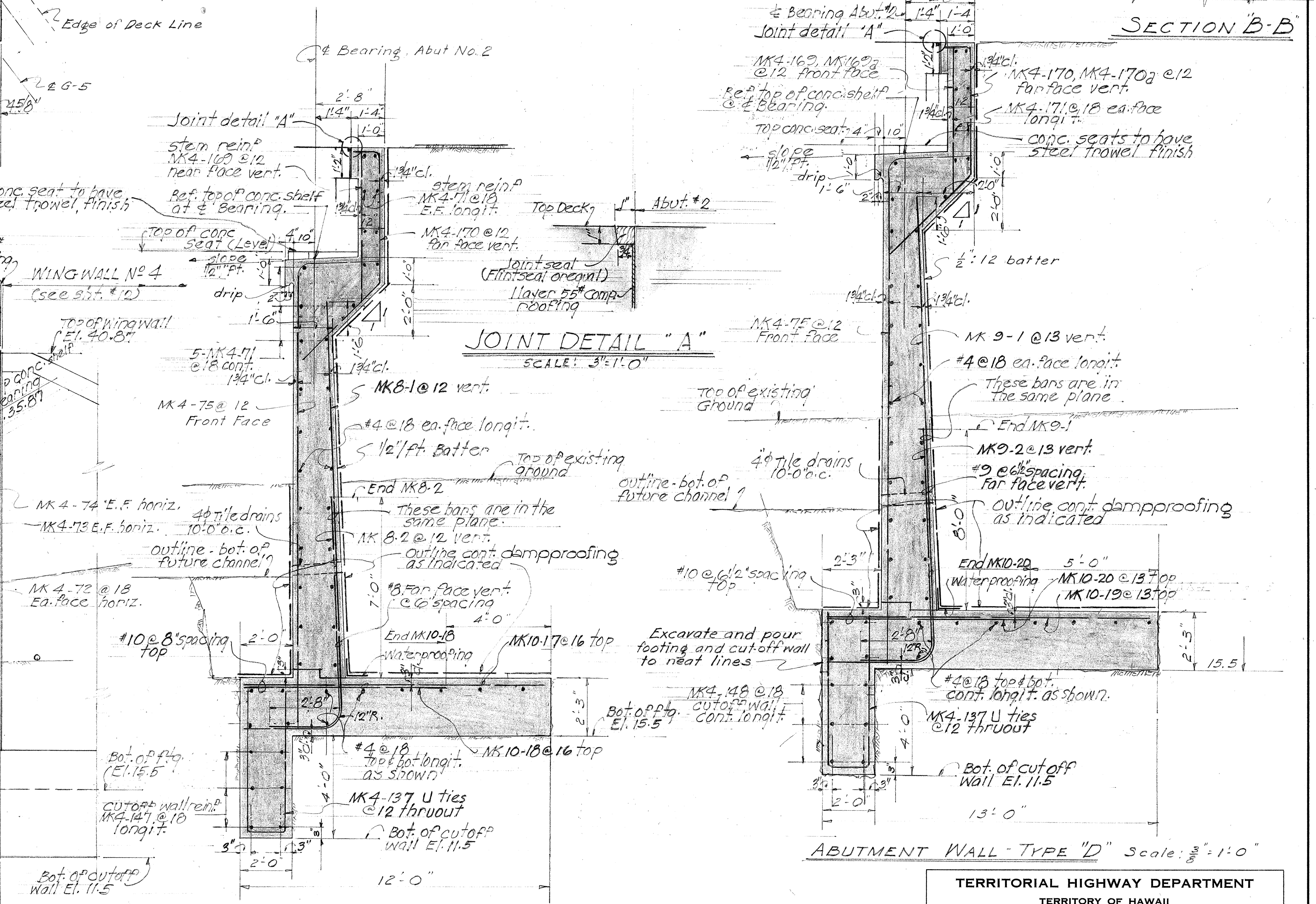
PLAN - ABUTMENT NO. 2
Scale 1/4" = 1'-0"



ELEVATION ABUTMENT NO. 2
Scale 1/4" = 1'-0"



TYPICAL ABUT. NO. 2 GIRDER CONCRETE SEAT DETAILS
Scale: 1/2" = 1'-0"



ABUTMENT WALL - TYPE "D" Scale: 3/8" = 1'-0"

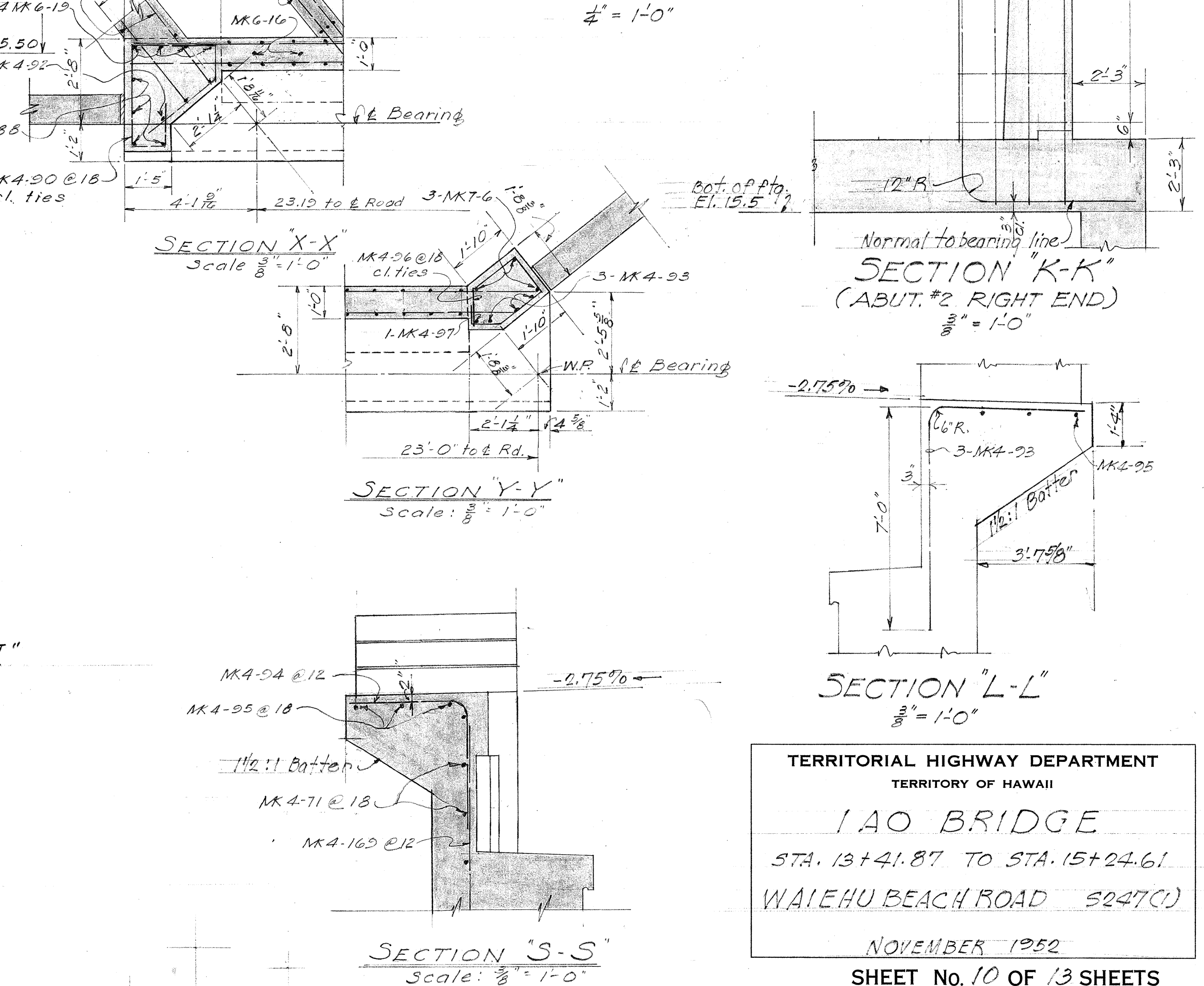
ABUTMENT WALL - TYPE "C"
Scale: 3/8" = 1'-0"

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
1AO BRIDGE
Sta. 13+41.87 to Sta. 15+24.61
WAIHEHU BEACH ROAD S247(1)
NOVEMBER 1952

SHEET NO. 9 OF 13 SHEETS

5587.19

ORIGINAL
PLAN
NOTE BOOK
QUANTITIES CHECKED BY
No.



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

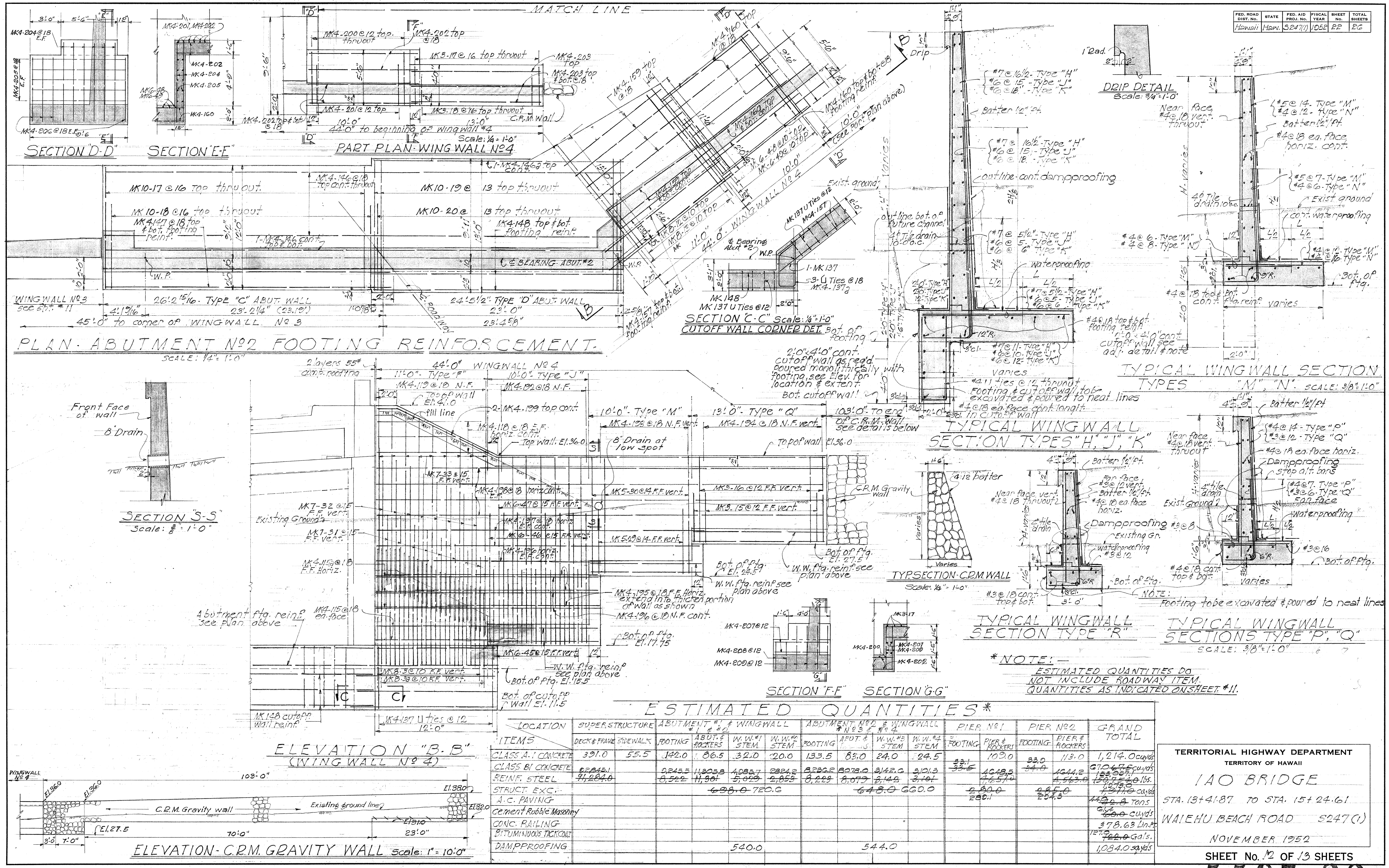
1 A O B R I D G E

STA. 13+41.87 TO STA. 15+24.61

WAIIEHU BEACH ROAD S247(C)

NOVEMBER 1952

SHEET No. 10 OF 13 SHEETS

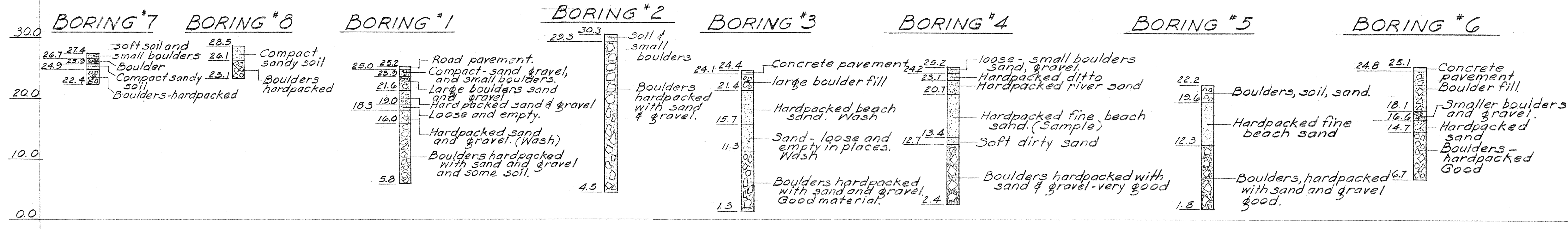
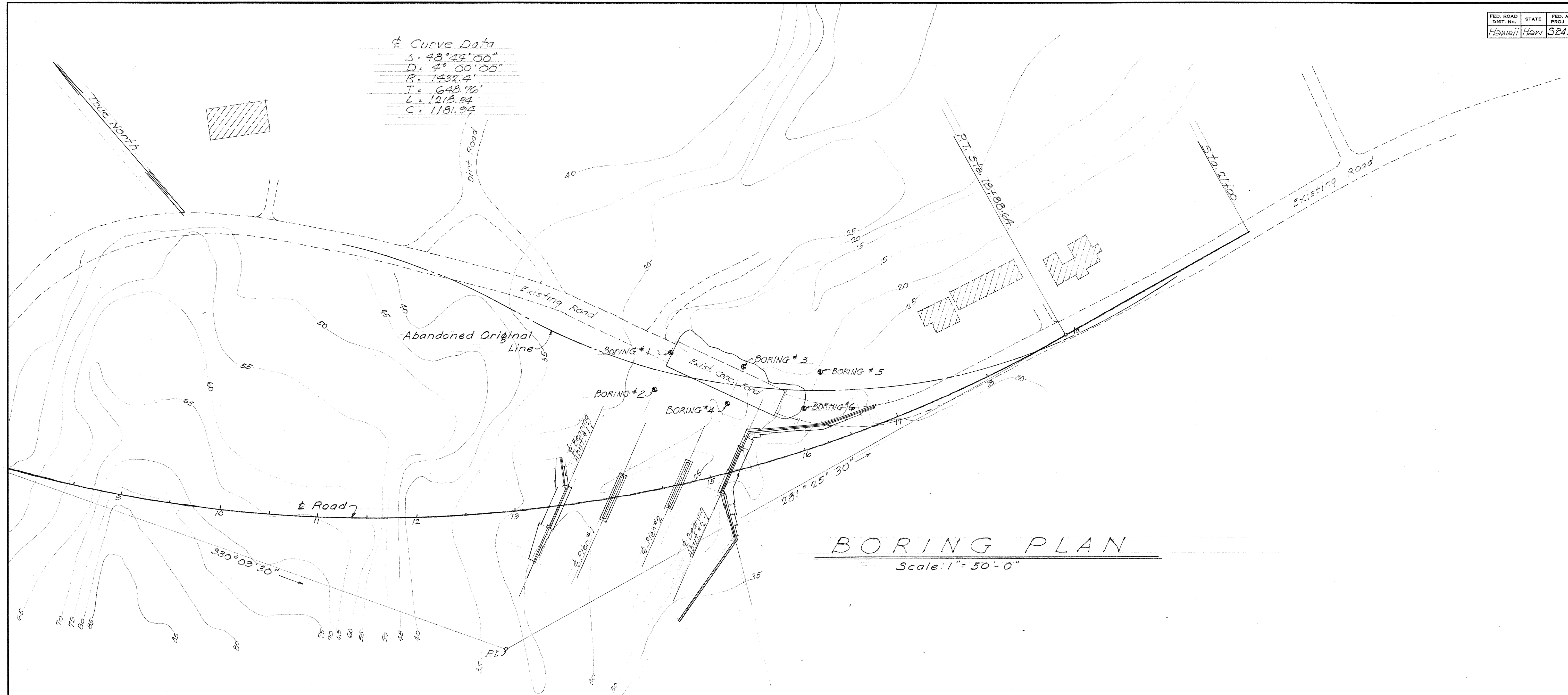


DESIGNED BY: *E. Chung*
 DRAWN BY: *E. Chung*
 CHECKED BY: *E. Chung*
 DATE: 11-52

TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
140 BRIDGE
 STA. 13+41.87 TO STA. 15+24.61
 WAIHEHU BEACH ROAD S247(C)
 NOVEMBER 1952
 SHEET No. 22 OF 13 SHEETS

5587-22

Curve Data
 $\Delta = 48^\circ 44' 00''$
 $D = 4^\circ 00' 00''$
 $R = 1432.4'$
 $T = 648.76'$
 $L = 1213.34'$
 $C = 1181.94'$



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
1AO BRIDGE
STA. 13+41.87 TO STA. 15+24.61
WAIEHU BEACH ROAD S247(1)
NOVEMBER 1952
SHEET No. 13 OF 13 SHEETS

5587.23

DATE: _____
DESIGNED BY: _____
DRAWN BY: _____
CHECKED BY: _____
ORIGINAL PLAN NO. _____
NOTE BOOK NO. _____