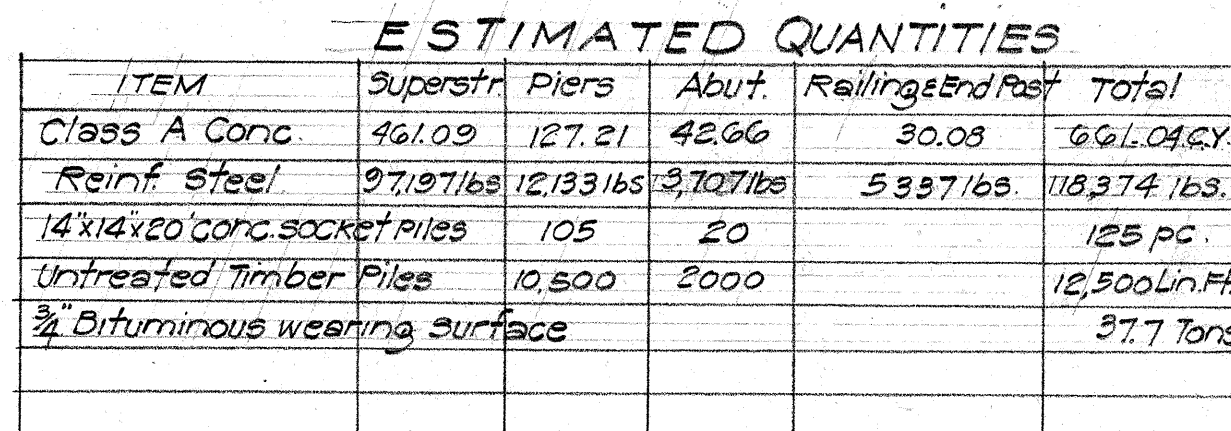




NOTE! The above Reinf steel Quantity does not include steel in conc. socket Piles
Reinf. in Conc. socket Piles = 58,125 lbs.

NOTE: Untreated Timber Piles to be of 40' and 60' lengths.
40' Piles shall have a minimum tip diam. of 72".
See Std. Br. Details for Pile splice.

BRIDGE N°2

KAM. HY SNFAP 9G(2)
Sta 178+72.5 - 180+89.5 January, 1943

SHEET No. 1 / OF 6 SHEETS

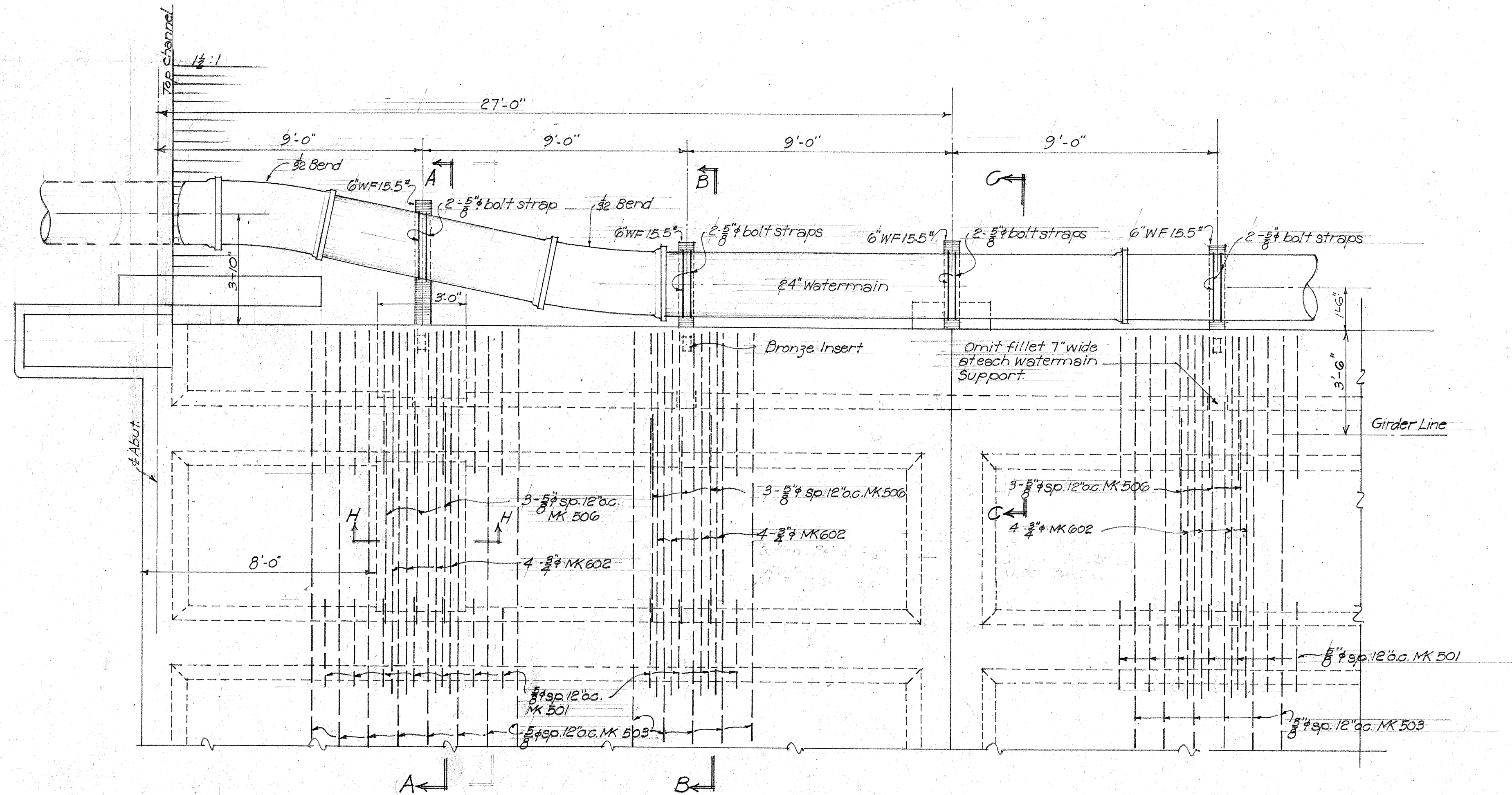
5111.5A

NR W M DAWALLA O.B.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
	DESIGNED BY	"
	DRAWN BY	"
	TRACED BY	"
NOTE BOOK	QUANTITIES BY	"
	QUANTITIES CHECKED BY	"
N _o .	CHECKED BY	"

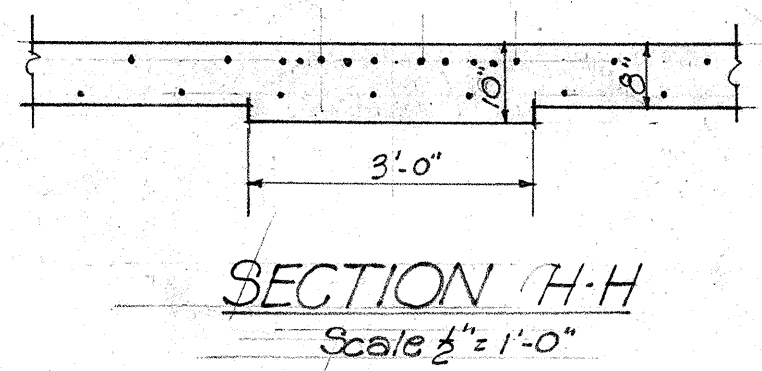
Revision. Grades raised
Rock Fill provided at Abut.

ORIGINAL PLAN	SURVEY PLOTTED BY DESIGNED BY DRAWN BY TRACED BY QUANTITIES BY D.Y. QUANTITIES CHECKED BY CHECKED BY	M.S. BARTLES D. Vanagharan D.Y. M.R.B.	" " " " " "	DATE Sept-1962 Oct " Apr-1963 " "
NOTE BOOK				
No.				

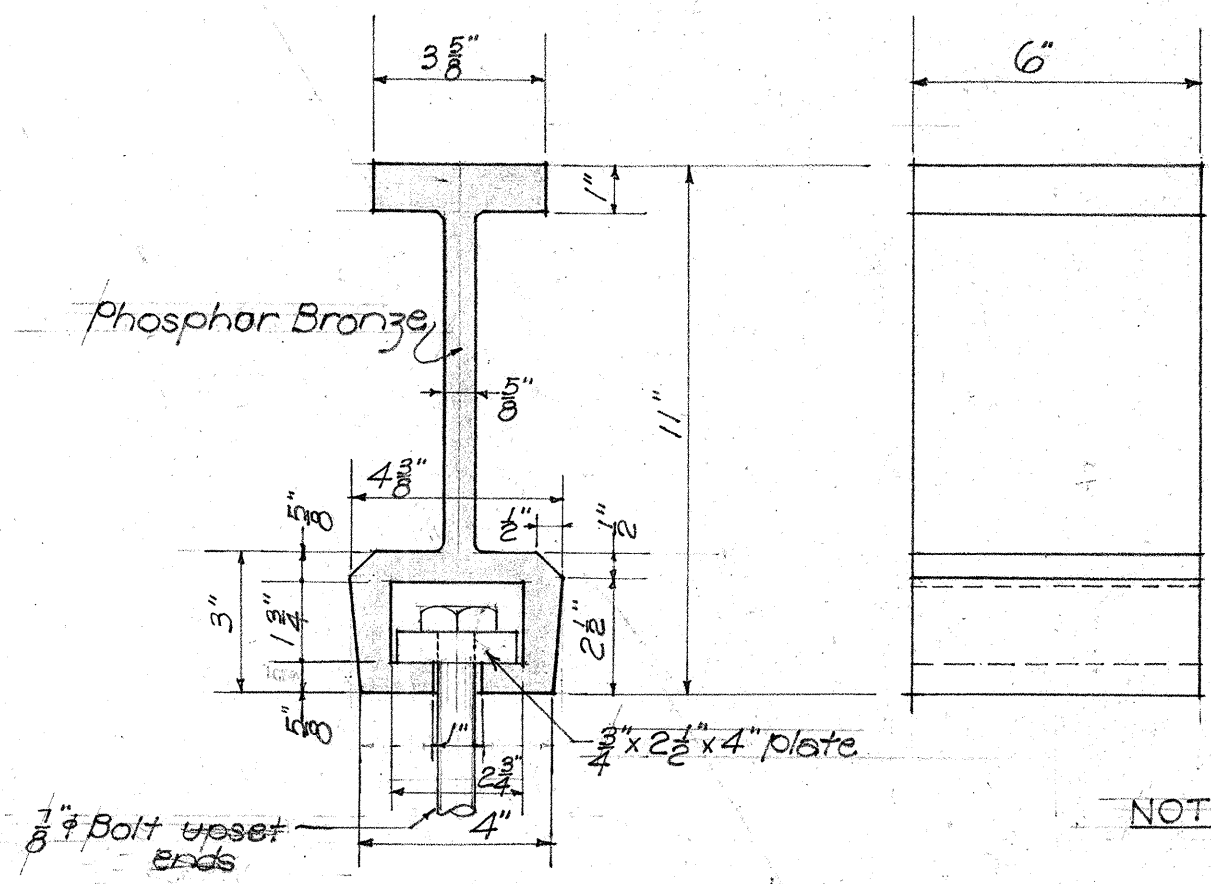


DECK TOP REINF AT WATERMAIN SUPPORTS

PART LAYOUT PLAN 24" WATERMAIN
Scale 1/8" = 1'-0"

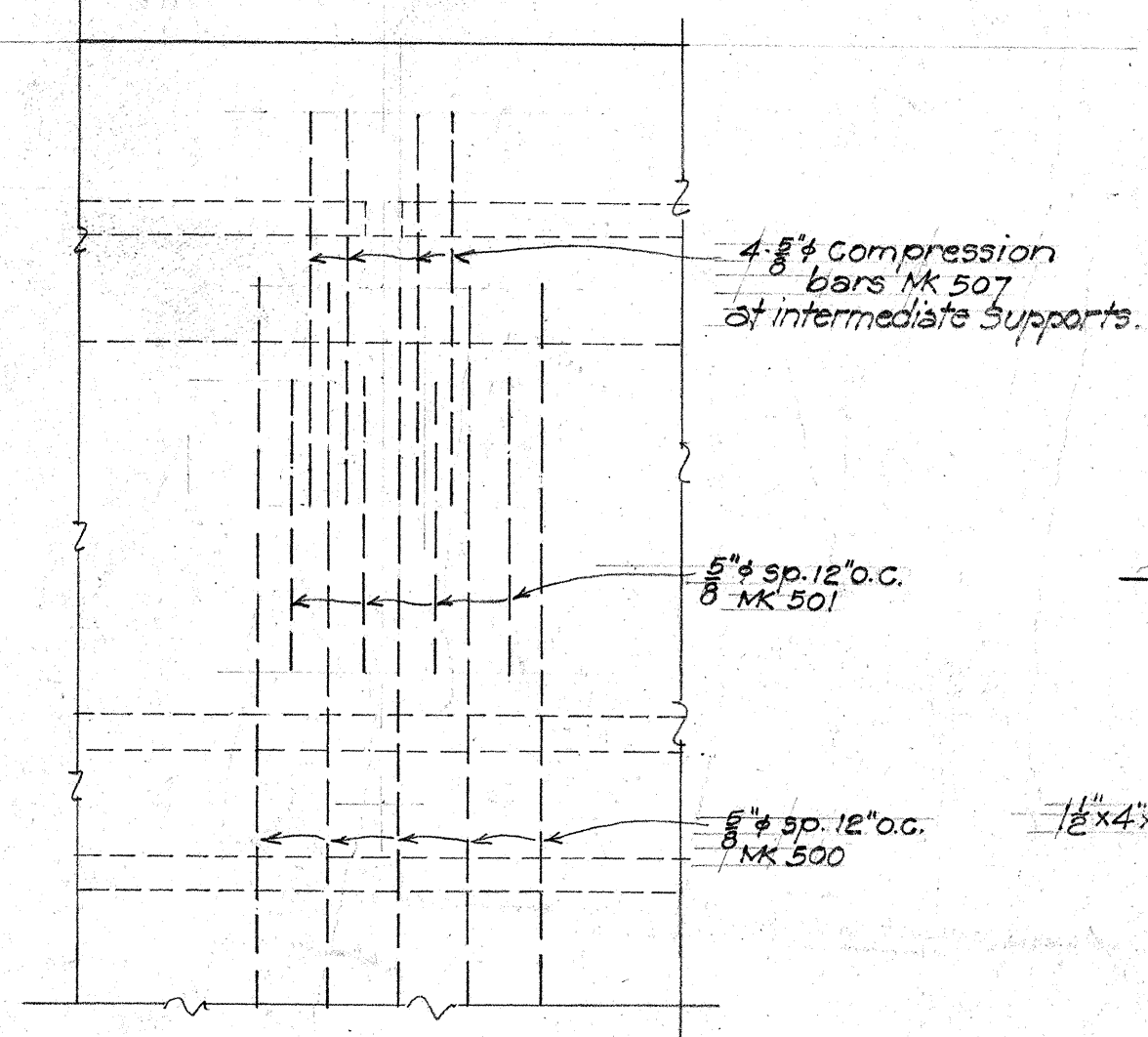


SECTION H-H
Scale 1/2" = 1'-0"

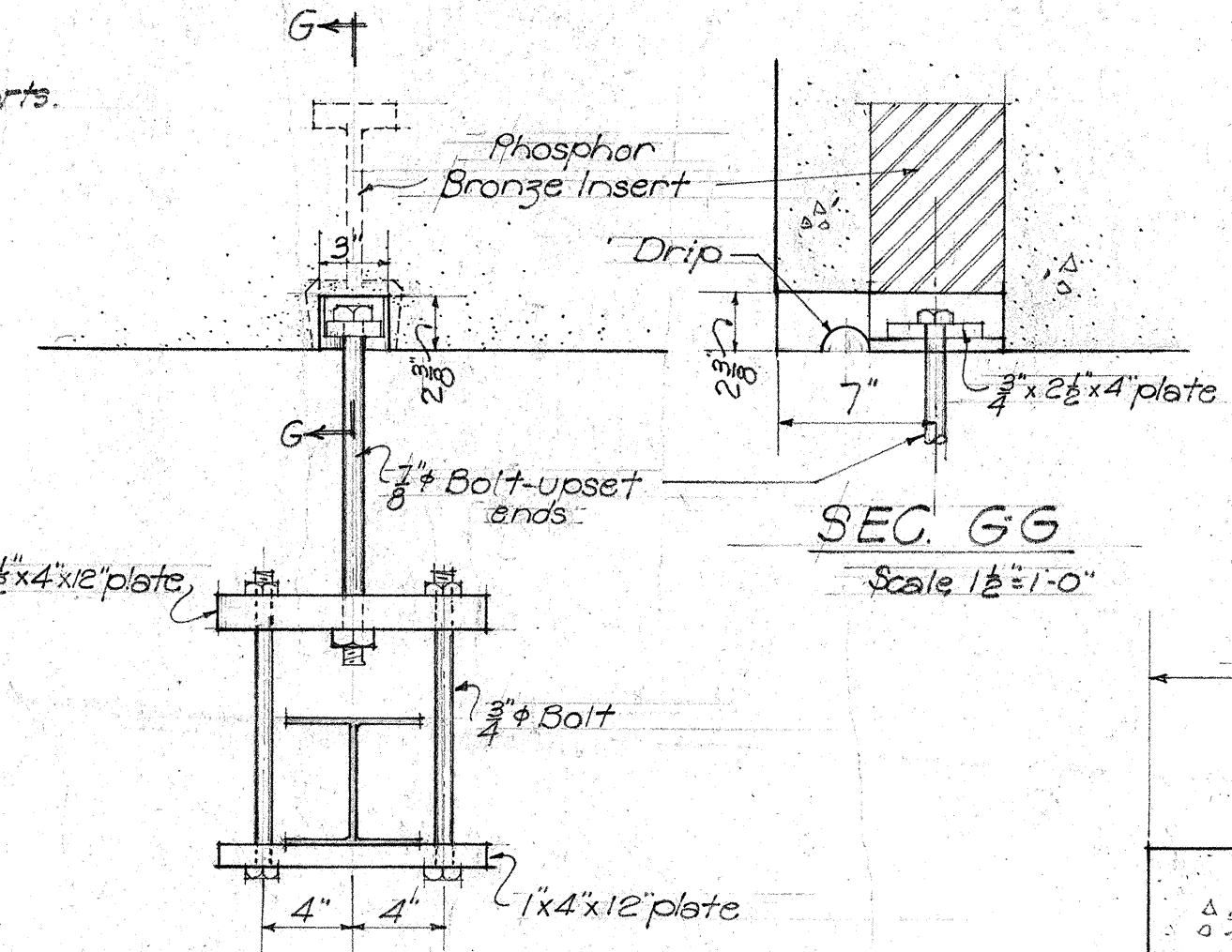


DETAIL OF INSERT
Scale 3/4" = 1'-0"

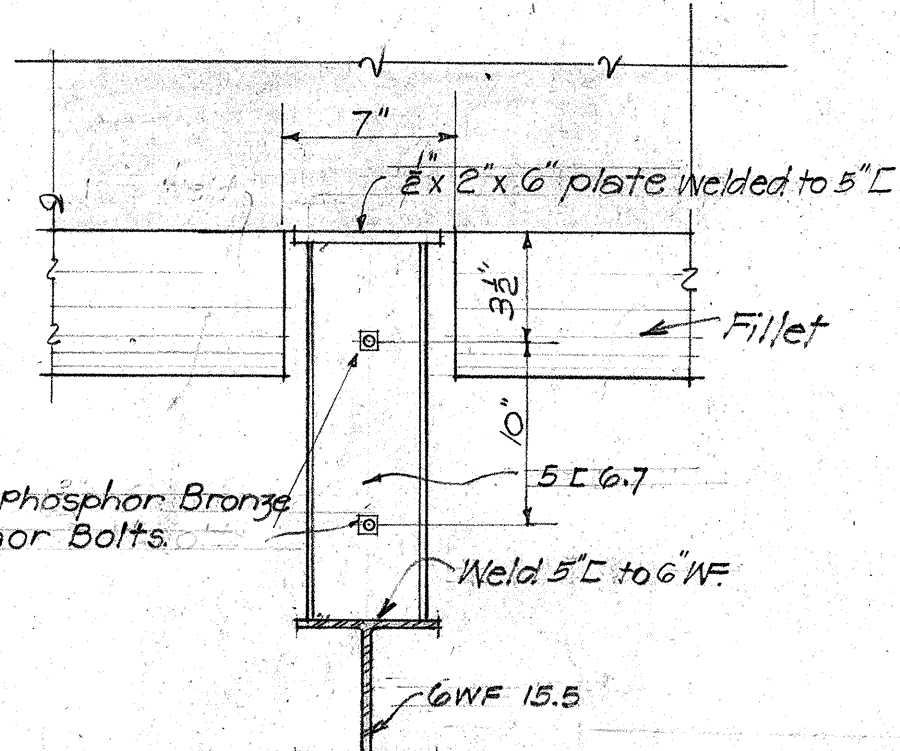
NOTE: Inserts to be Phosphor Bronze conforming to A.S.T.M. serial designation B 22-387 or the latest revision thereof, and shall be class D grade.
Required: 16 Inserts



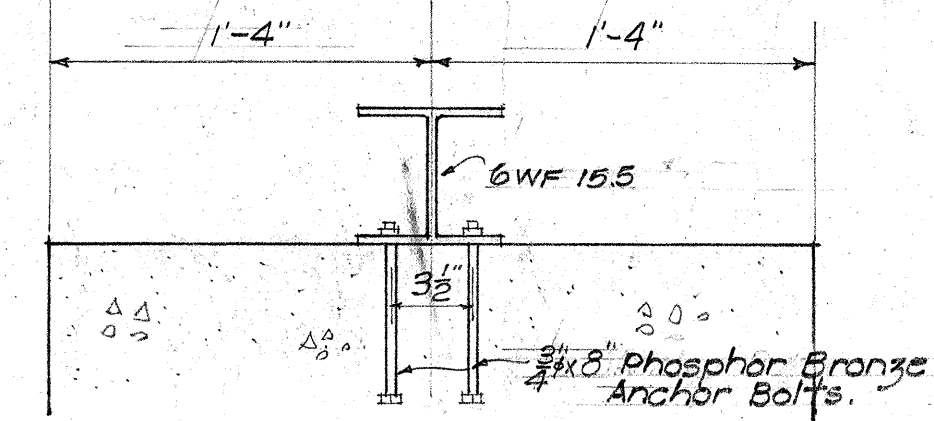
BOTTOM REINF AT WATERMAIN SUPPORTS
Scale 3/8" = 1'-0"



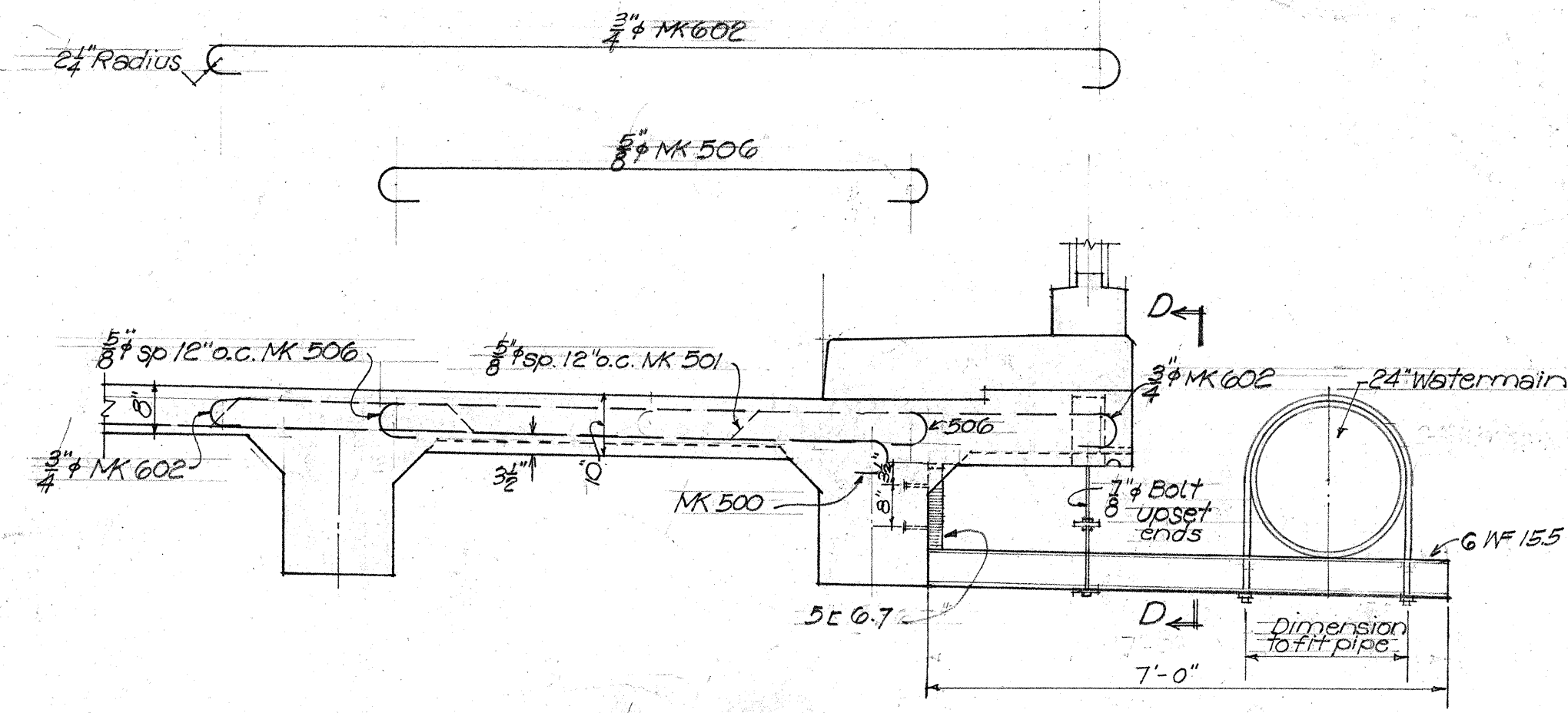
ELEVATION D-D HANGER DETAIL
Scale 1/2" = 1'-0"



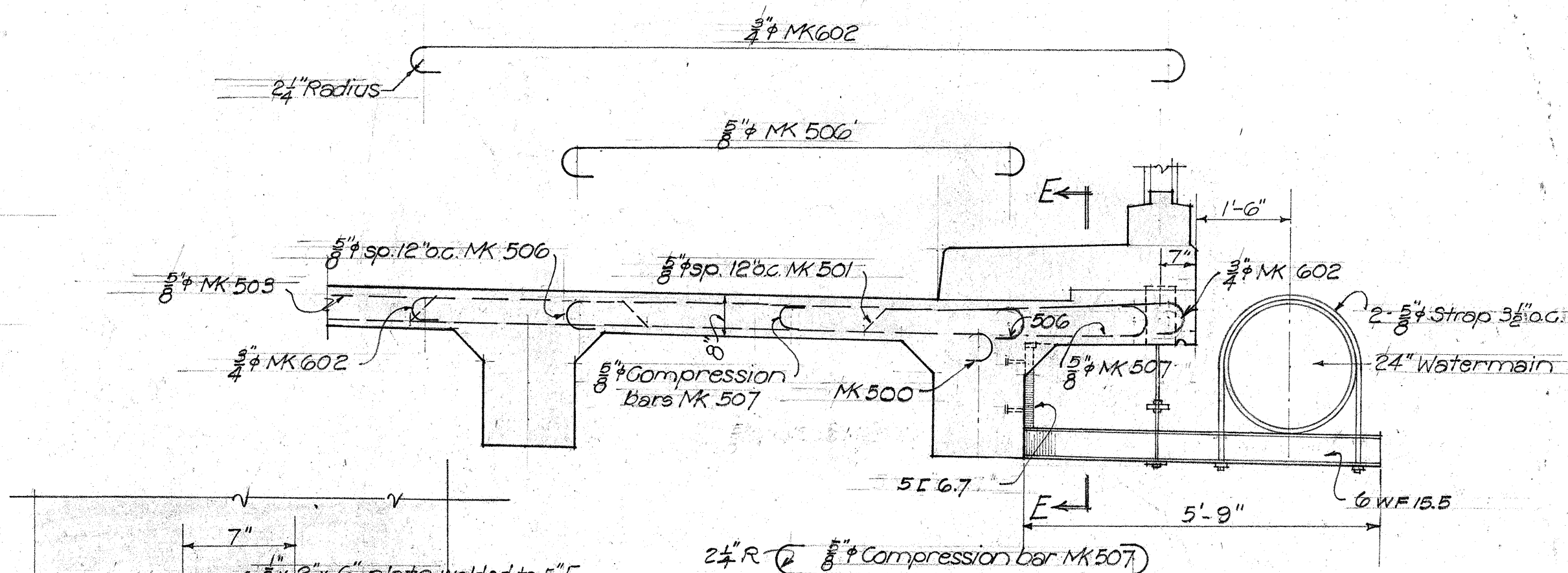
SECTION E-E
Scale 1/2" = 1'-0"



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

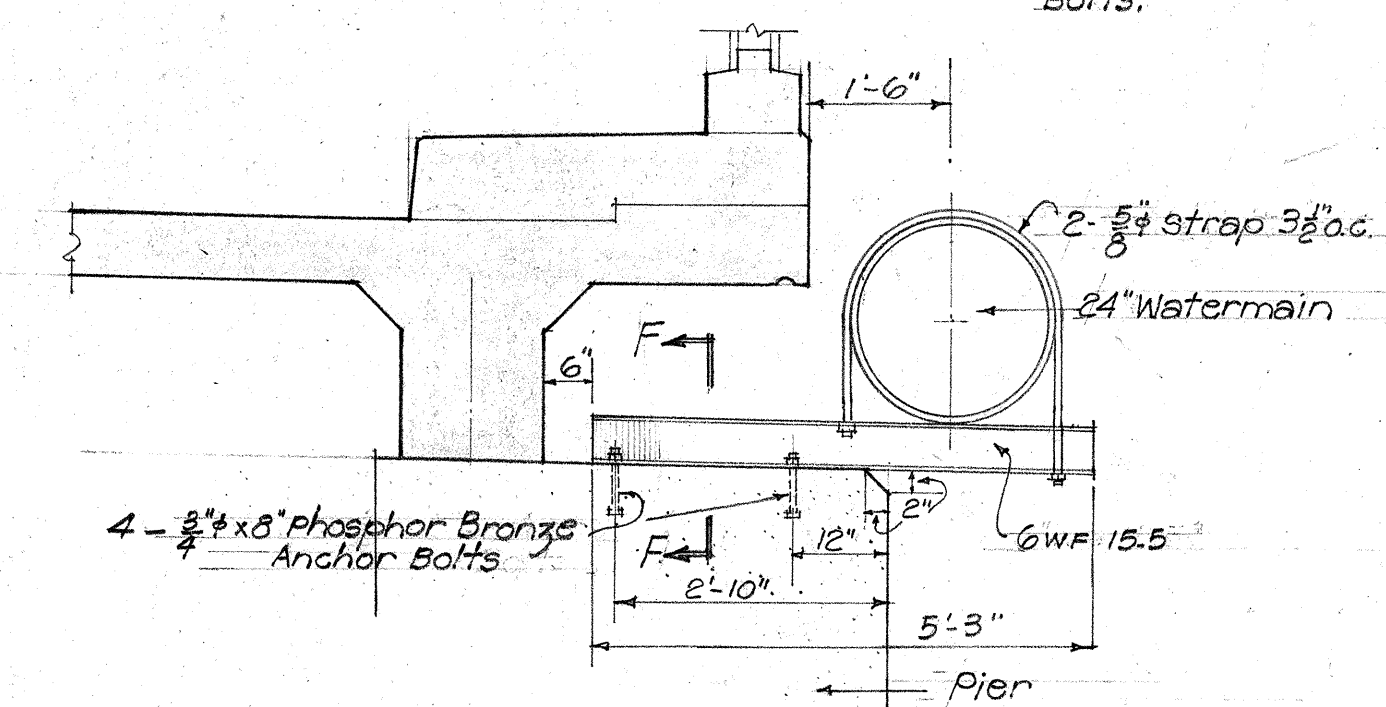


SECTION A-A
Scale 1/2" = 1'-0"

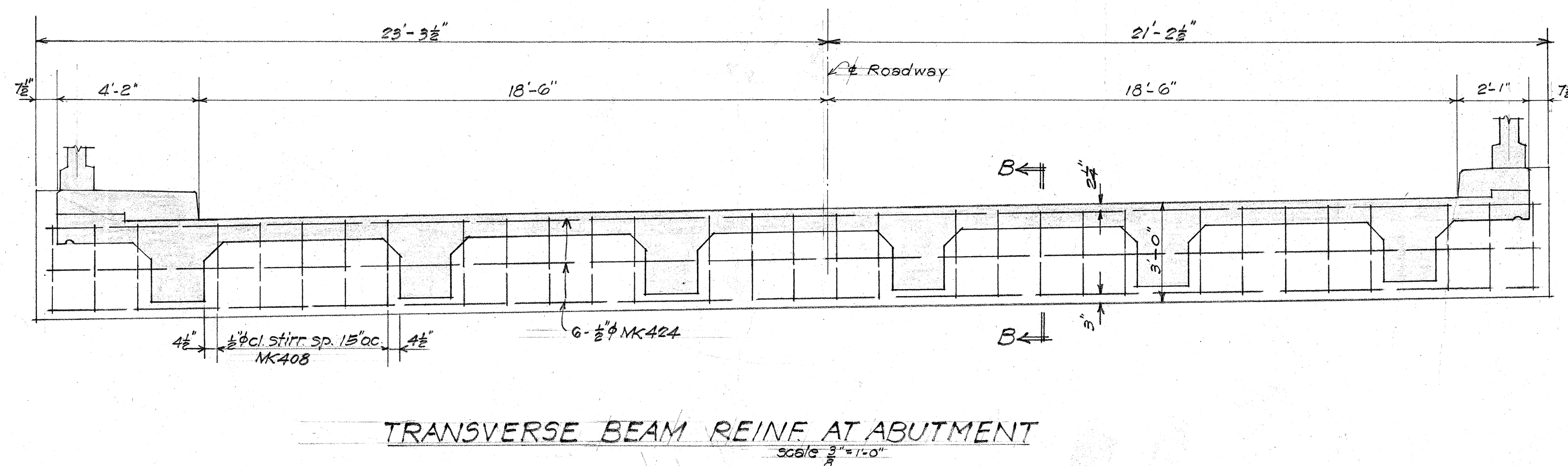
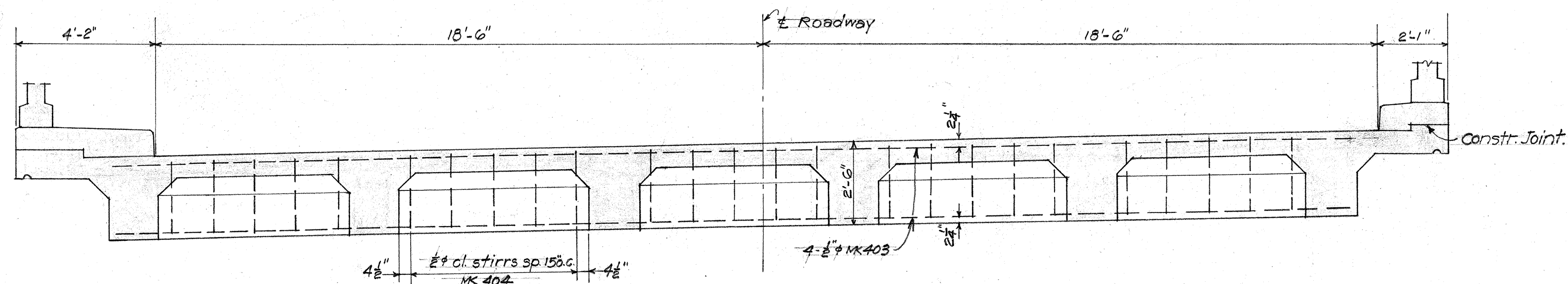
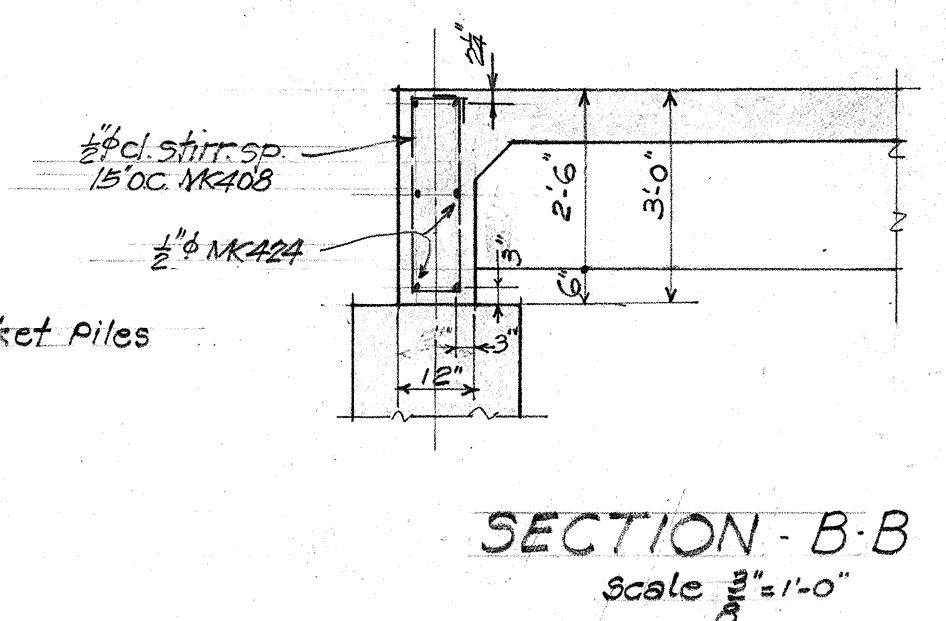
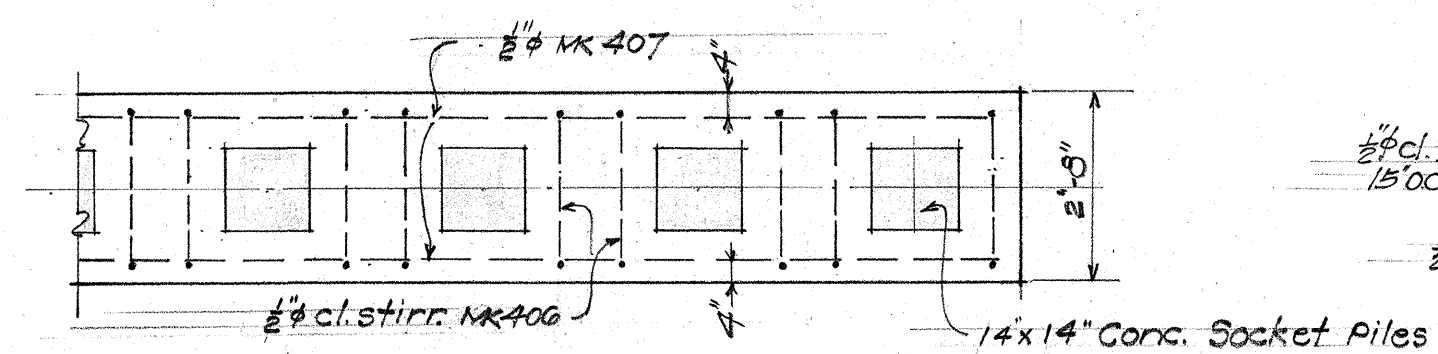
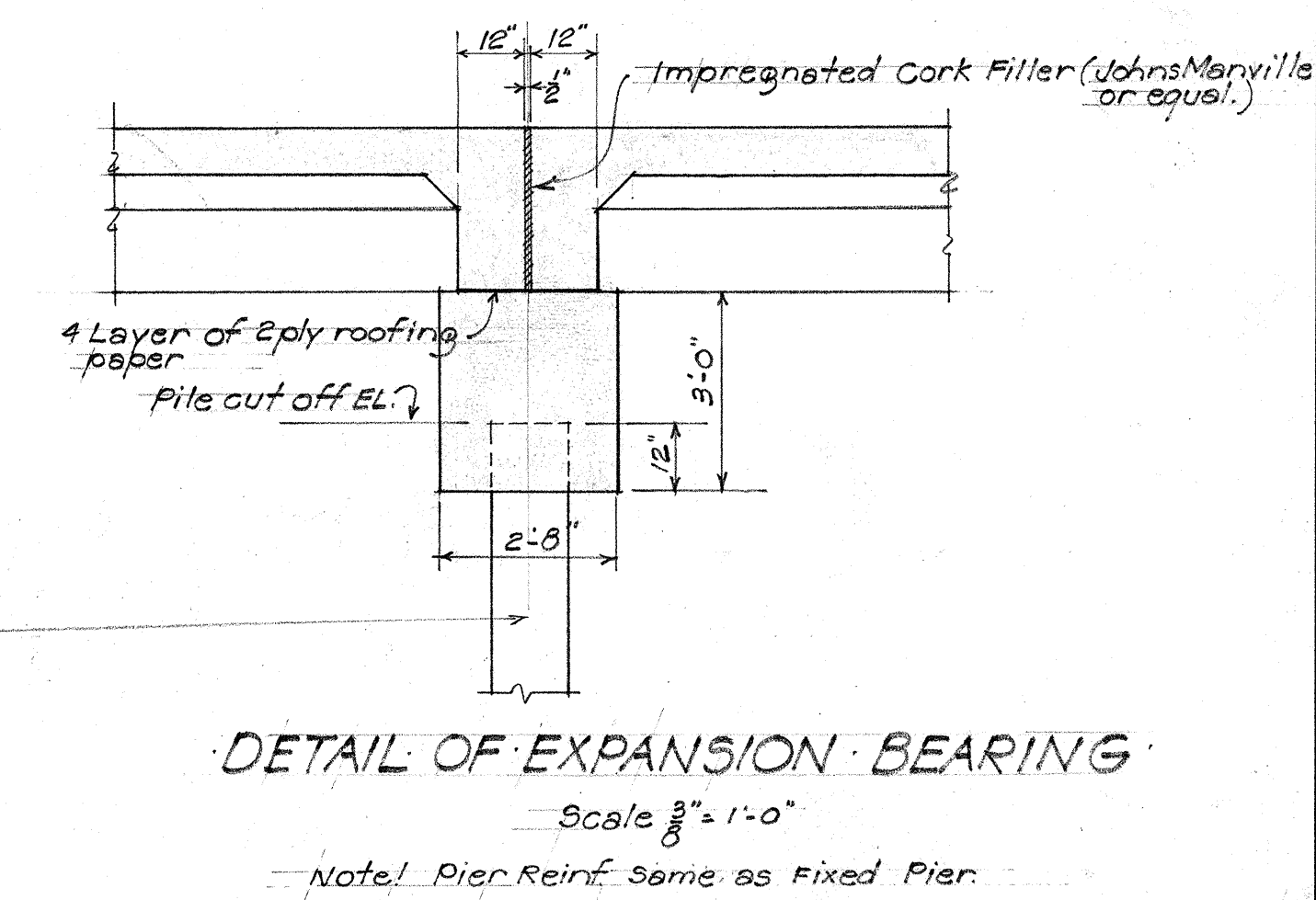
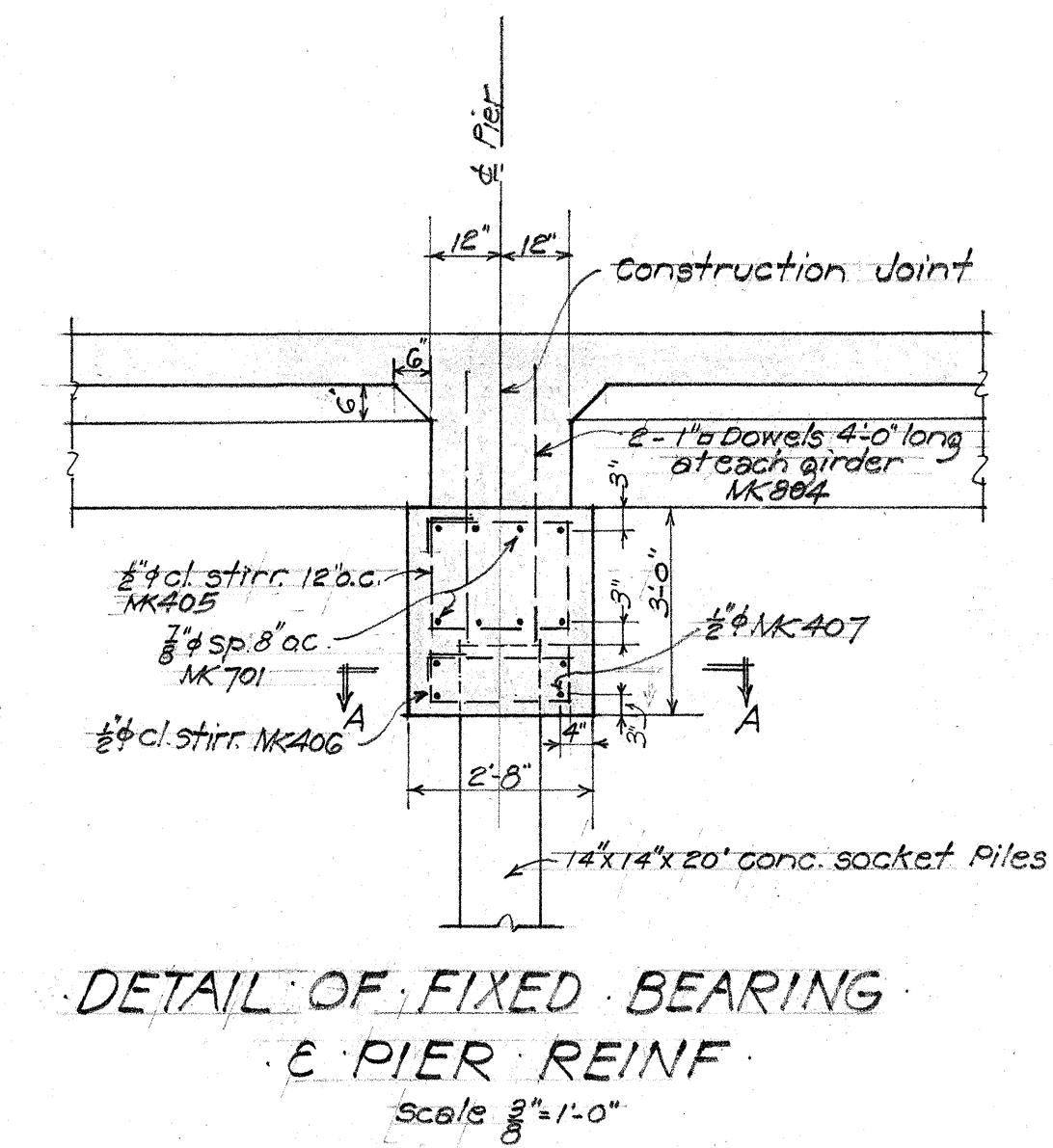
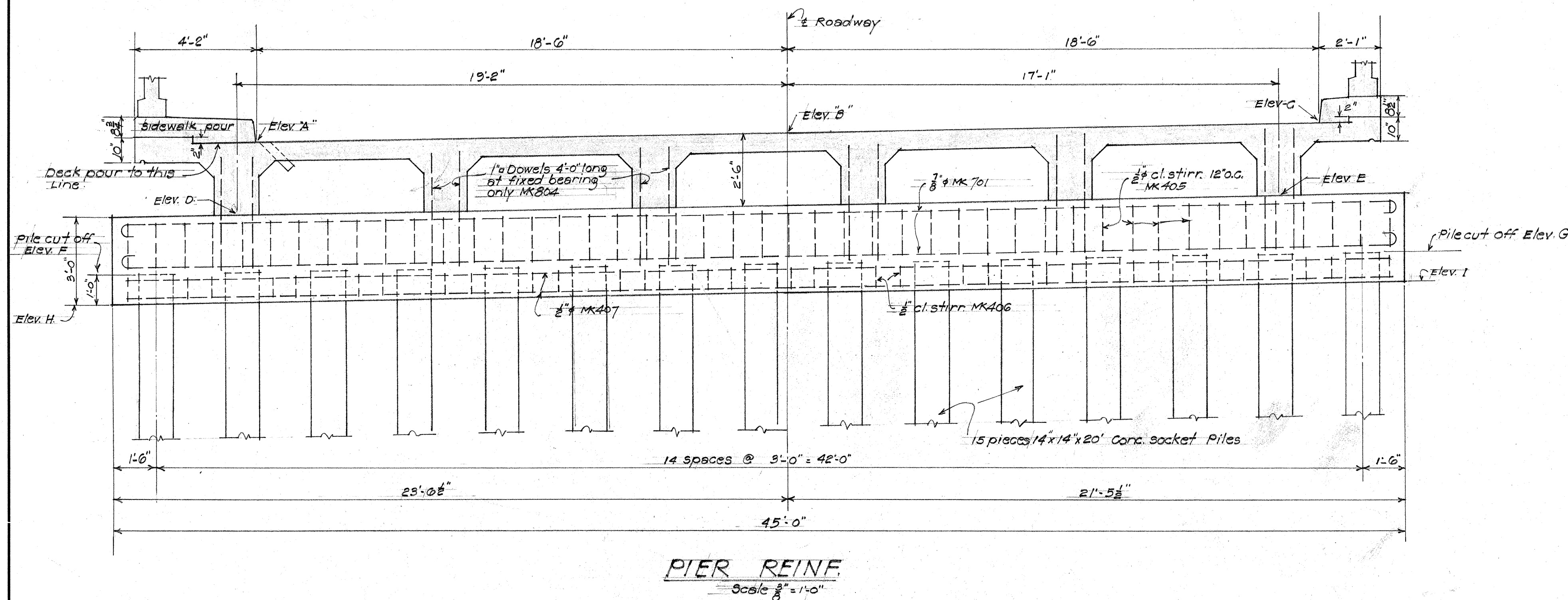


SECTION B-B
Scale 1/2" = 1'-0"

Note: All steel to be furnished and installed by others.
Required: 60-3/4" x 8" Phosphor Bronze Anchor Bolts.



PIPE SUPPORT AT PIERS, ELEV. C-C
Scale 1/2" = 1'-0"



PIER ELEVATION (Along & Pier Bearing)							
Elevation No	Pier #1	Pier #2	Pier #3	Pier #4	Pier #5	Pier #6	Pier #7
Elev. A	6 ¹³	6 ³³	6 ⁵³	6 ⁵⁷	6 ⁵³	6 ³³	6 ¹⁵
Elev. B	6 ²⁵	6 ²⁶	6 ²¹	6 ²⁵	6 ²¹	6 ²⁶	6 ²⁵
Elev. C	6 ²¹	6 ³⁴	7 ²³	7 ¹³	7 ²³	6 ³⁴	6 ²¹
Elev. D	3 ⁶⁴	3 ²⁷	4 ²²	4 ²⁶	4 ²²	3 ²⁷	3 ⁶⁴
Elev. E	4 ¹⁹	4 ⁴²	4 ⁵⁷	4 ⁶¹	4 ⁵⁷	4 ⁴²	4 ¹⁹
Elev. F	1 ⁶⁰	1 ²³	1 ³³	2 ²²	1 ²³	1 ²³	1 ⁶⁰
Elev. G	2 ²³	2 ⁴⁵	2 ⁶¹	2 ⁴⁵	2 ⁶¹	2 ⁴⁵	2 ²³
Elev. H	0 ⁵³	0 ³¹	0 ²⁶	1 ²²	0 ³⁶	0 ³¹	0 ⁵³
Elev. I	1 ²⁵	1 ⁴⁵	1 ⁴⁵	1 ²⁷	1 ²³	1 ⁴³	1 ²⁵

NOTE: Elev. A, B and C are top conc. elevations.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

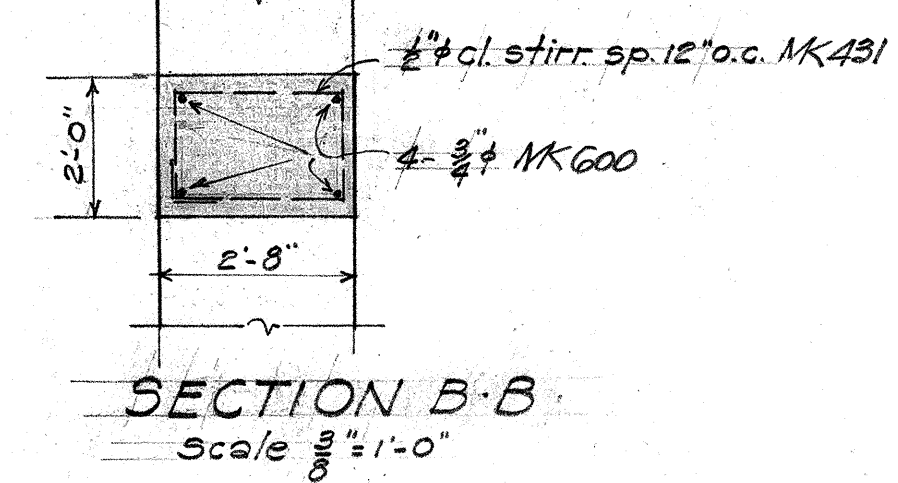
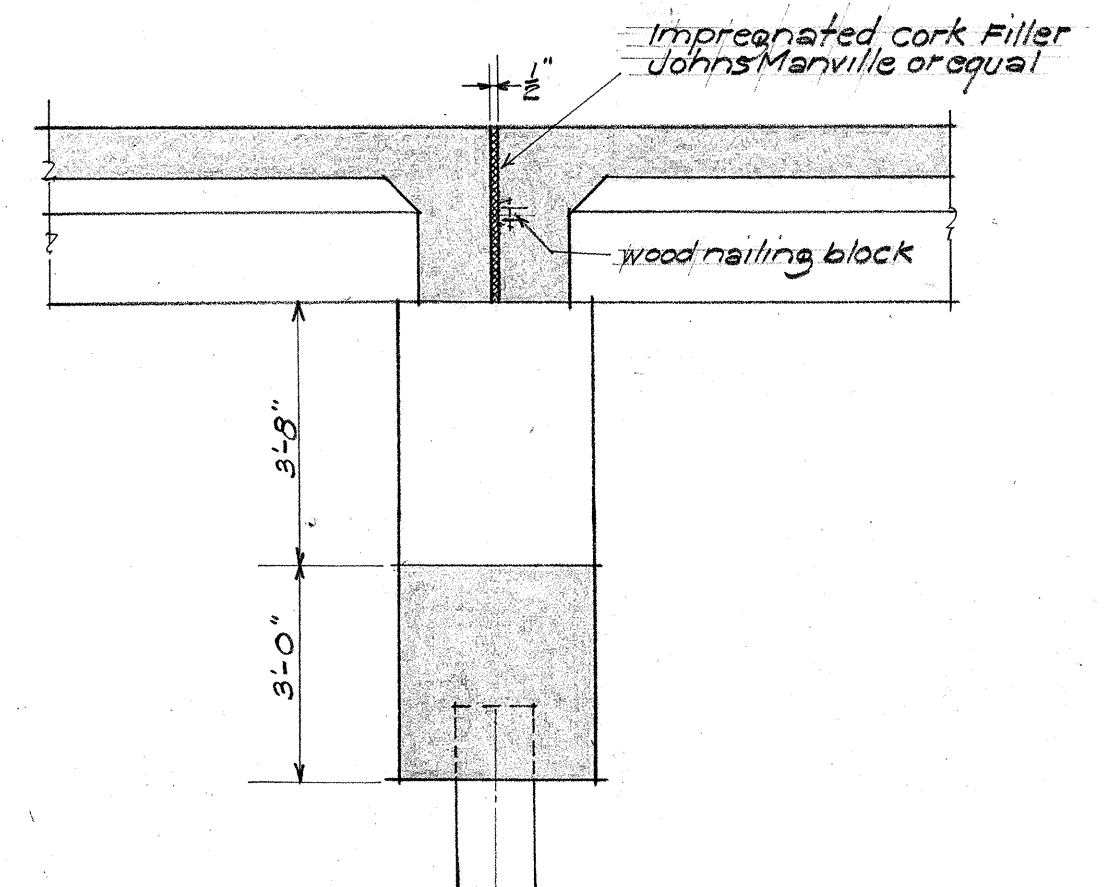
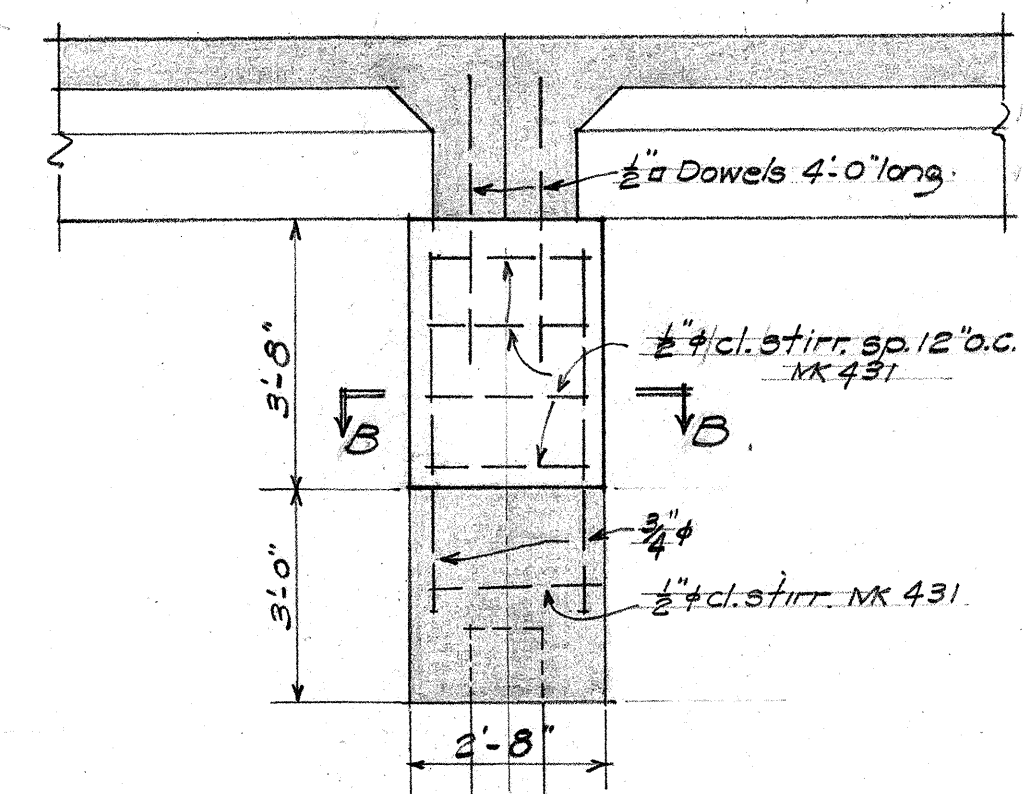
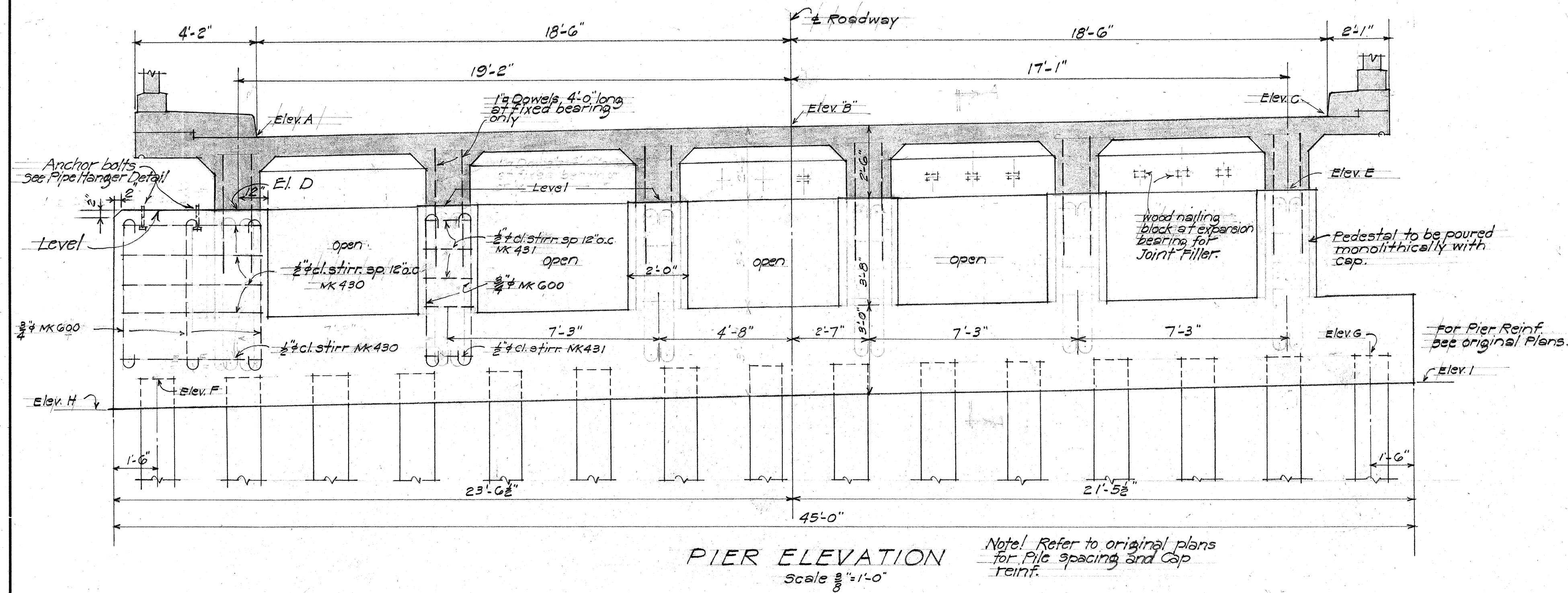
BRIDGE N° 2

KAM. HY. SNFAP 95(2)
STB. 178 + 72⁵ - 180 + 89⁵ Apr. 1943

SHEET № 4 OF 5 SHEETS

5111. \$

Revised Jan. 1944



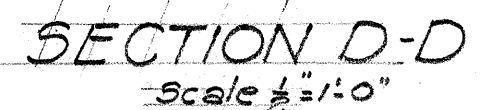
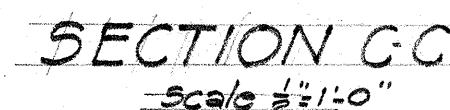
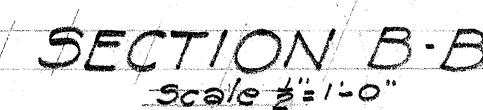
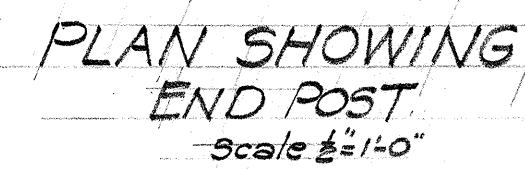
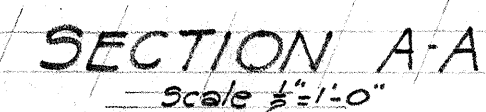
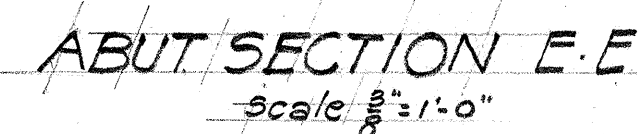
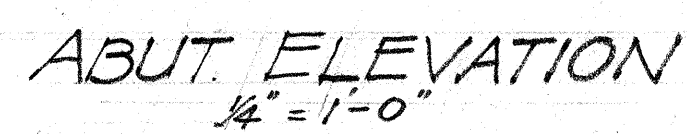
PIER ELEVATION Along & Pier Bearing							
Elevation No	Pier #1	Pier #2	Pier #3	Pier #4	Pier #5	Pier #6	Pier #7
Elev. A	9 ⁷²	9 ⁷⁵	9 ⁷⁷	9 ⁷⁶	9 ⁷⁴	9 ⁷⁰	9 ⁶⁴
Elev. B	10 ²	10 ²⁸	10 ²⁵	10 ²⁴	10 ²⁵	9 ²⁸	9 ³²
Elev. C	10 ²⁸	10 ²¹	10 ²⁸	10 ²⁸	10 ²⁰	10 ²⁶	10 ²⁰
Elev. D	7 ²¹	7 ²⁴	7 ²⁶	7 ²⁵	7 ²⁸	7 ¹⁹	7 ¹⁸
Elev. E	7 ⁷⁶	7 ⁷⁰	7 ⁸¹	7 ⁸⁰	7 ⁷⁸	7 ⁷⁴	7 ⁶⁸
Elev. F	1 ²⁰	1 ²³	1 ²⁵	1 ²⁴	1 ²²	1 ¹⁸	1 ¹²
Elev. G	2 ¹³	2 ¹⁶	2 ¹⁸	2 ¹⁷	2 ¹⁵	2 ¹¹	2 ²⁵
Elev. H	0 ¹³	0 ⁵¹	0 ⁵³	0 ⁵²	0 ⁵⁰	0 ⁴⁶	0 ⁴⁰
Elev. I	1 ¹⁵	1 ¹⁸	1 ²⁰	1 ¹⁹	1 ¹⁷	1 ¹²	1 ⁰⁷

NOTE: Elev. A, B and C are top conc. elevation

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

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
BRIDGE No 2
KAM. HY. SN/FAP9G2
Sta. 178 + 72.5 180 + 89.6 January 1943.
SHEET No 4 OF 6 SHEETS

Revised Jan. 1944



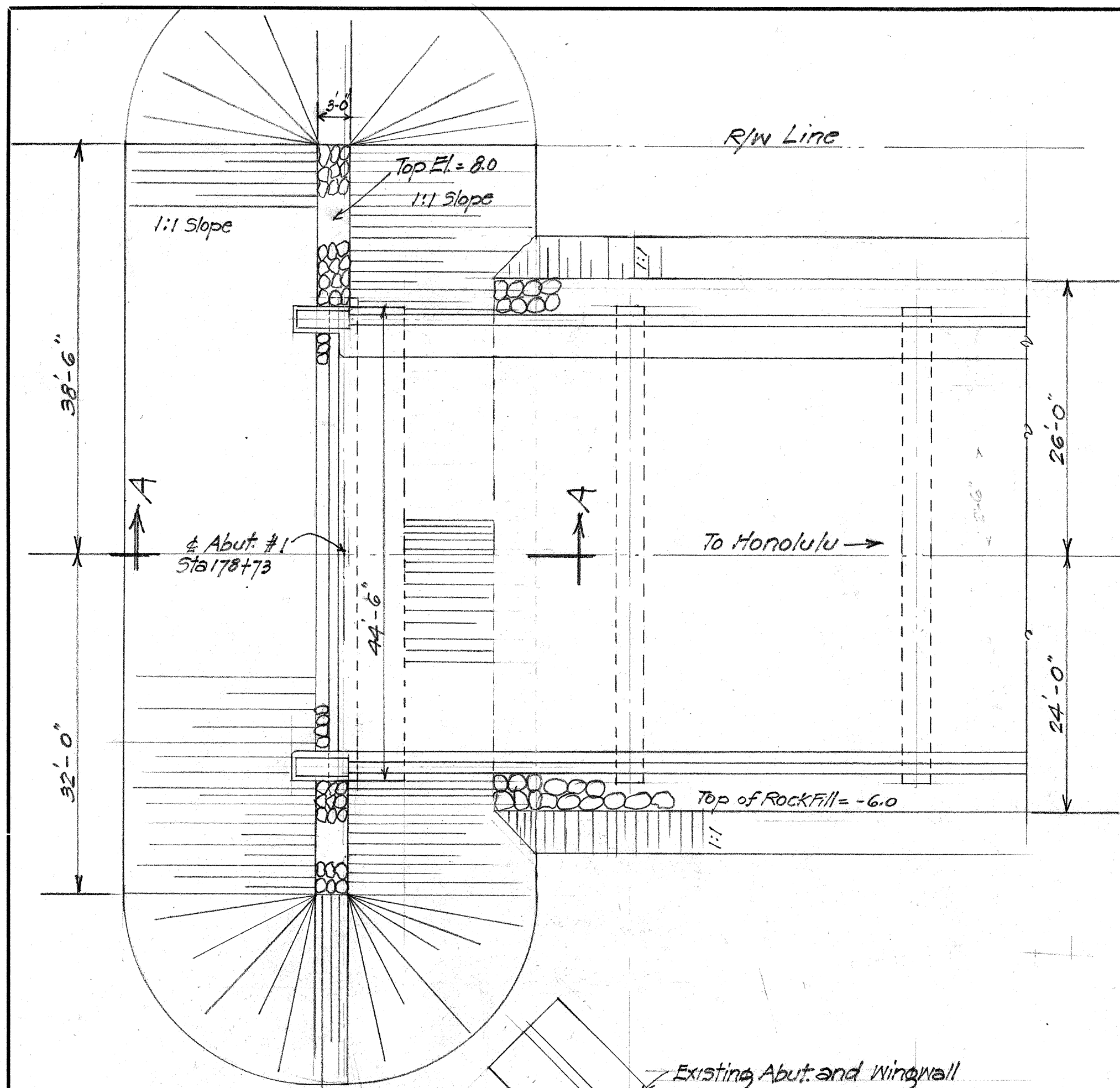
ORIGINAL PLAN	SURVEY PLOTTED BY <u>W. S. Barrios</u>	DATE <u>Jan 1944</u>
NOTE BOOK	DRAWN BY <u>O. Yamaguchi</u>	" " "
	TRACED BY <u>"</u>	" " "
	QUANTITIES BY <u>O. Yamaguchi</u>	" " "
	QUANTITIES CHECKED BY <u>O. Yamaguchi</u>	" " "
No.	CHECKED BY <u>"</u>	" " "

SHEET № 5 OF 6 SHEETS

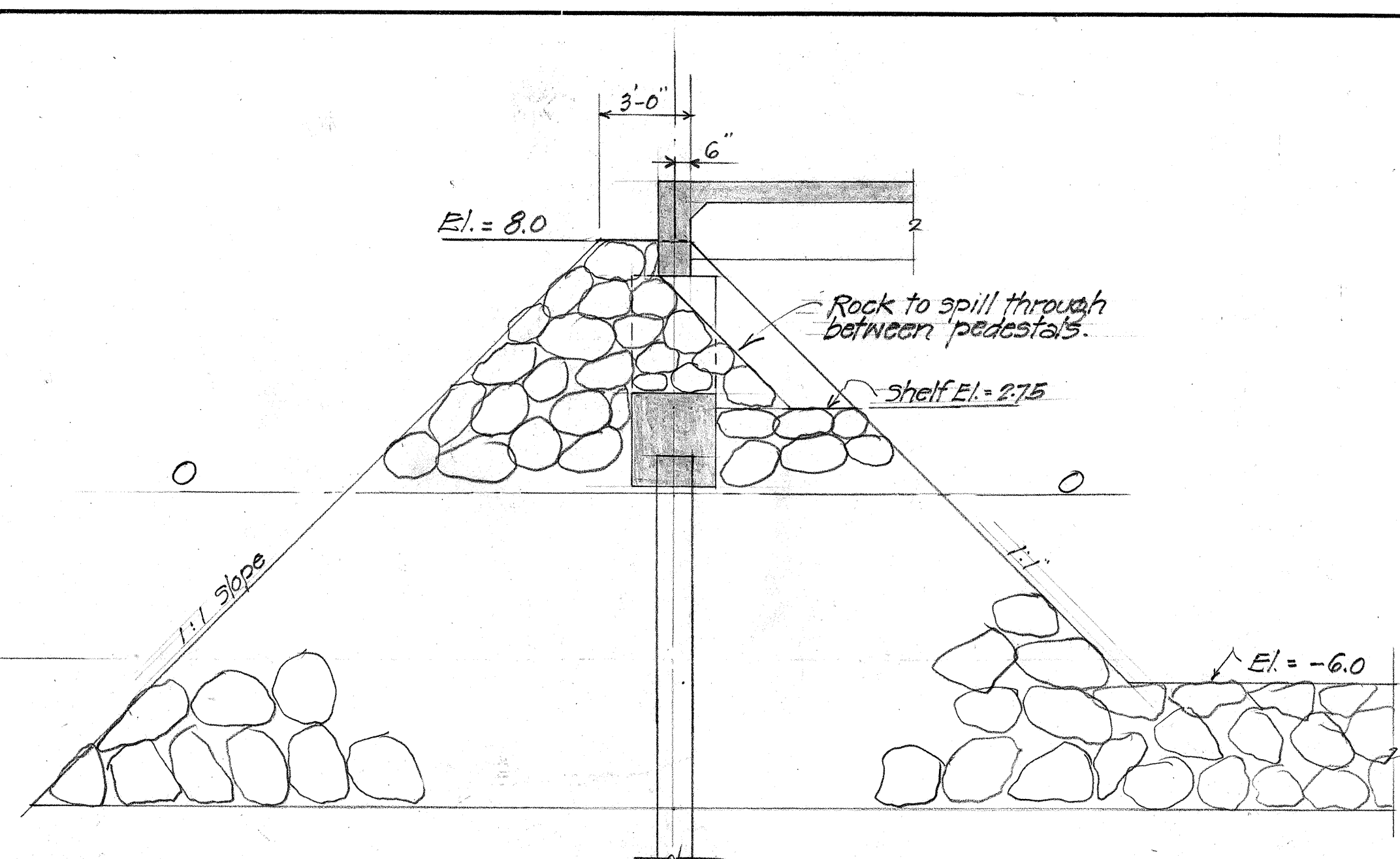
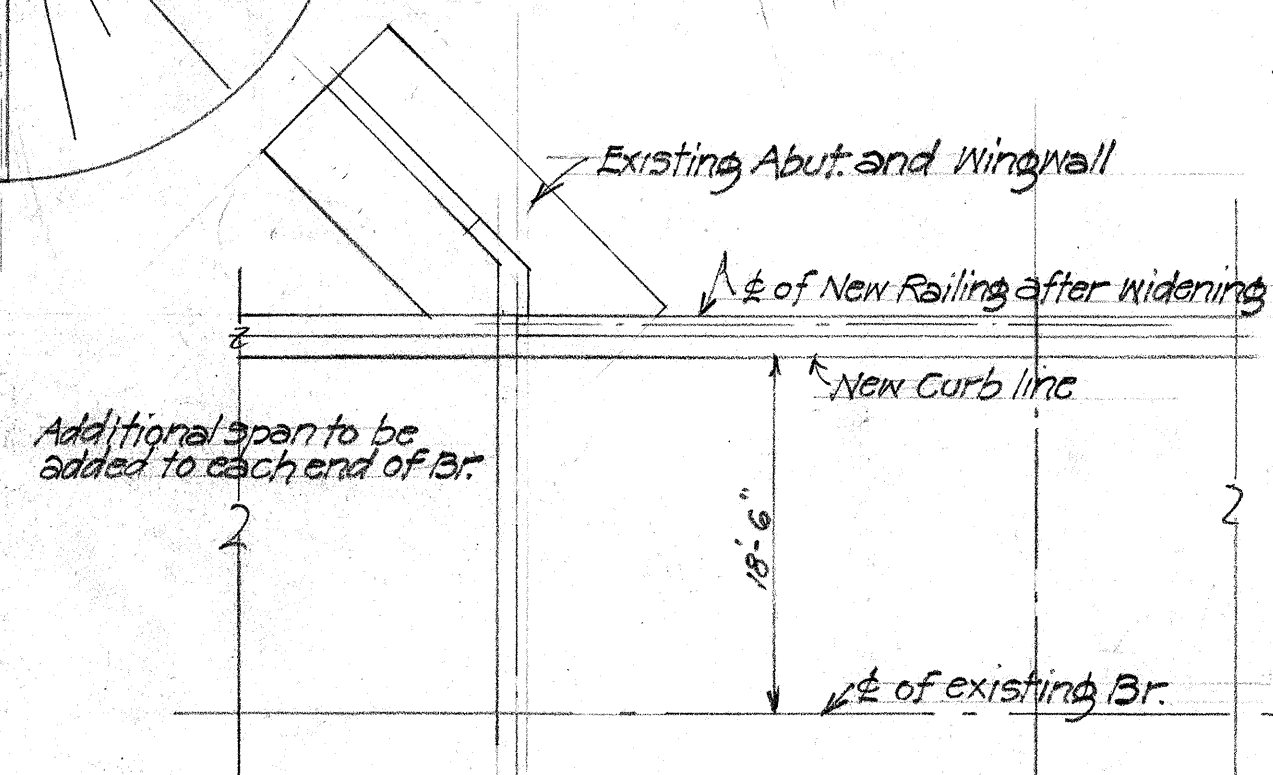
5111.9A

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	S.N.F.A.P. 962	1944	9B	

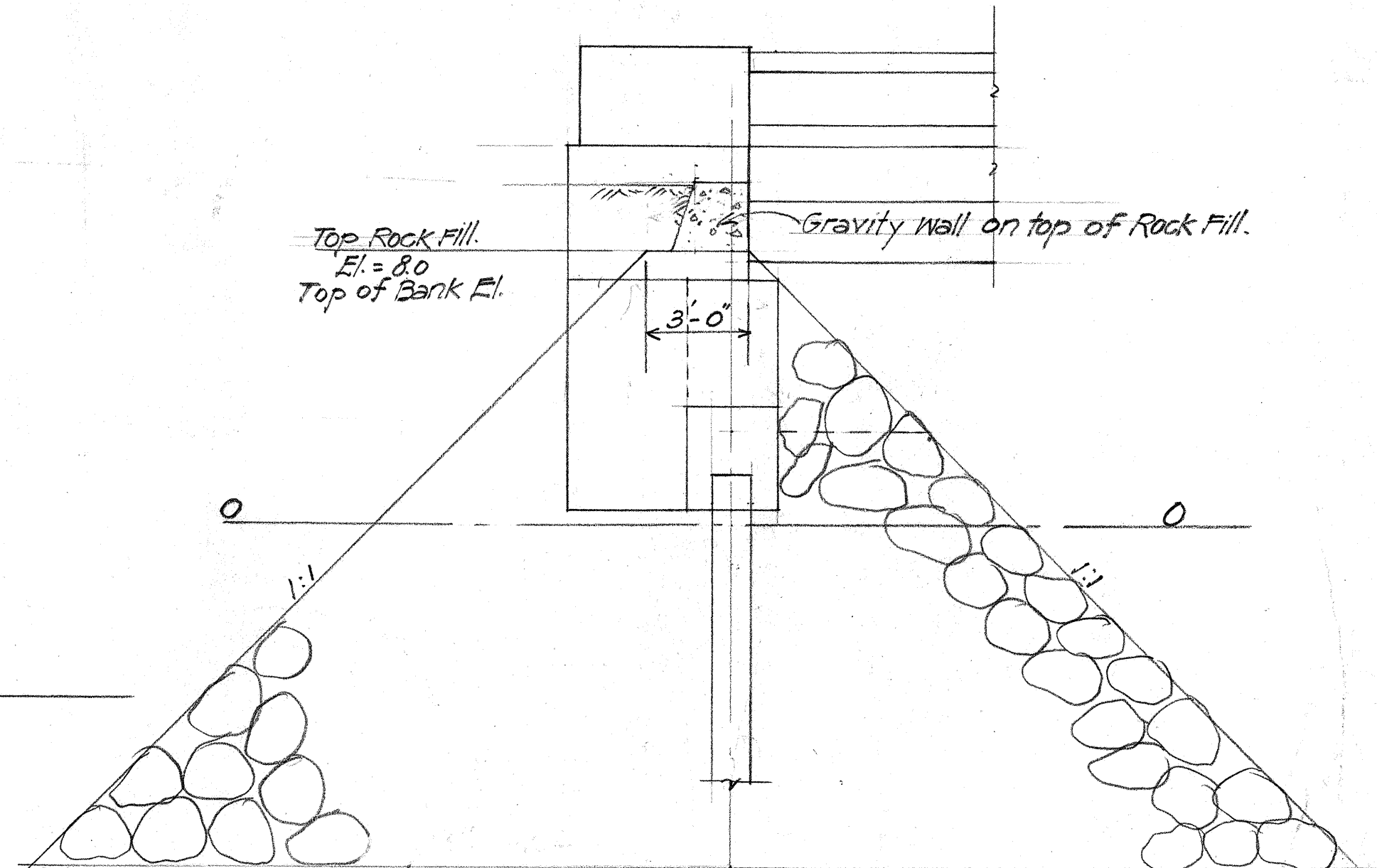
Revised Jan. 1944



LAYOUT PLAN
1" = 10'-0"



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



SECTION B-B
Scale 1/4" = 1'-0"

Revision
Grades raised
Rock Fill provided at Abut.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
No.	DESIGNED BY	5/1/44
	DRAWN BY	5/1/44
	CHECKED BY	5/1/44
	QUANTITIES CHECKED BY	5/1/44
	CHECKED BY	5/1/44

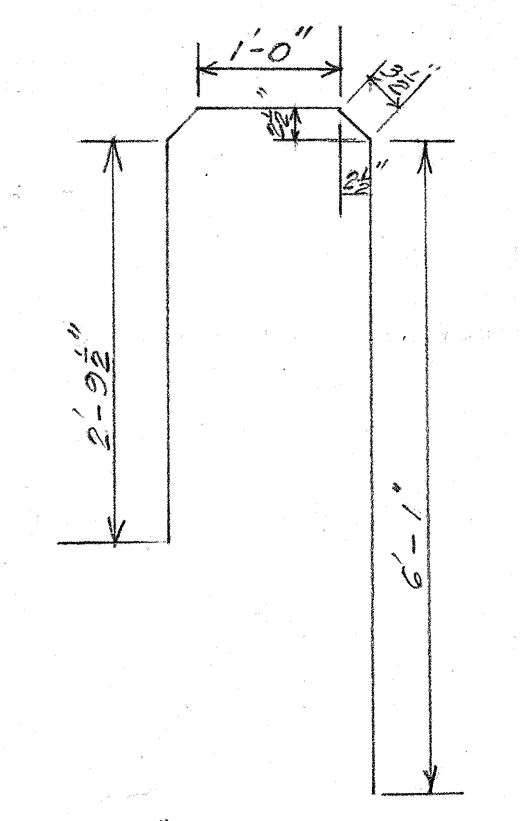
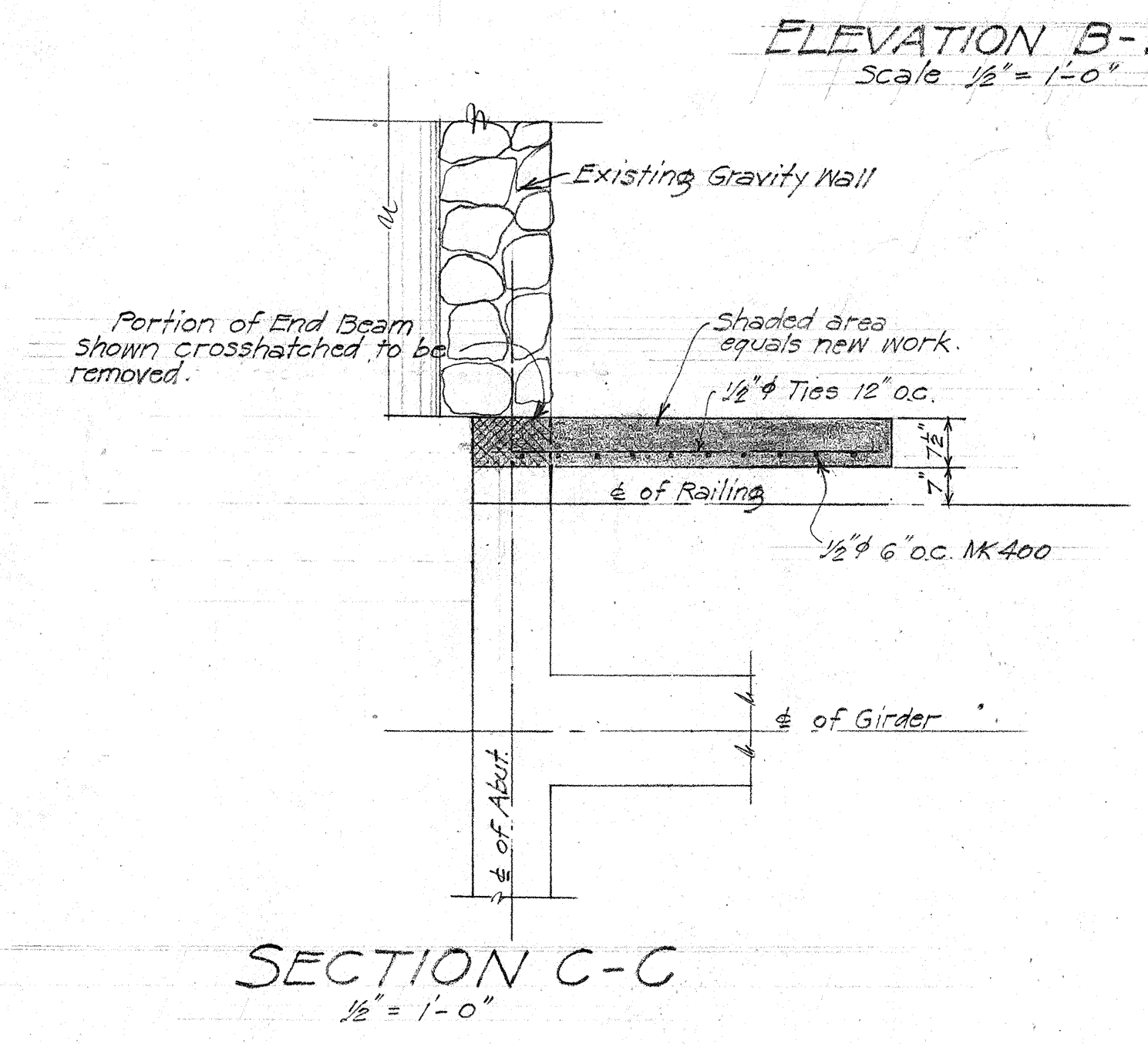
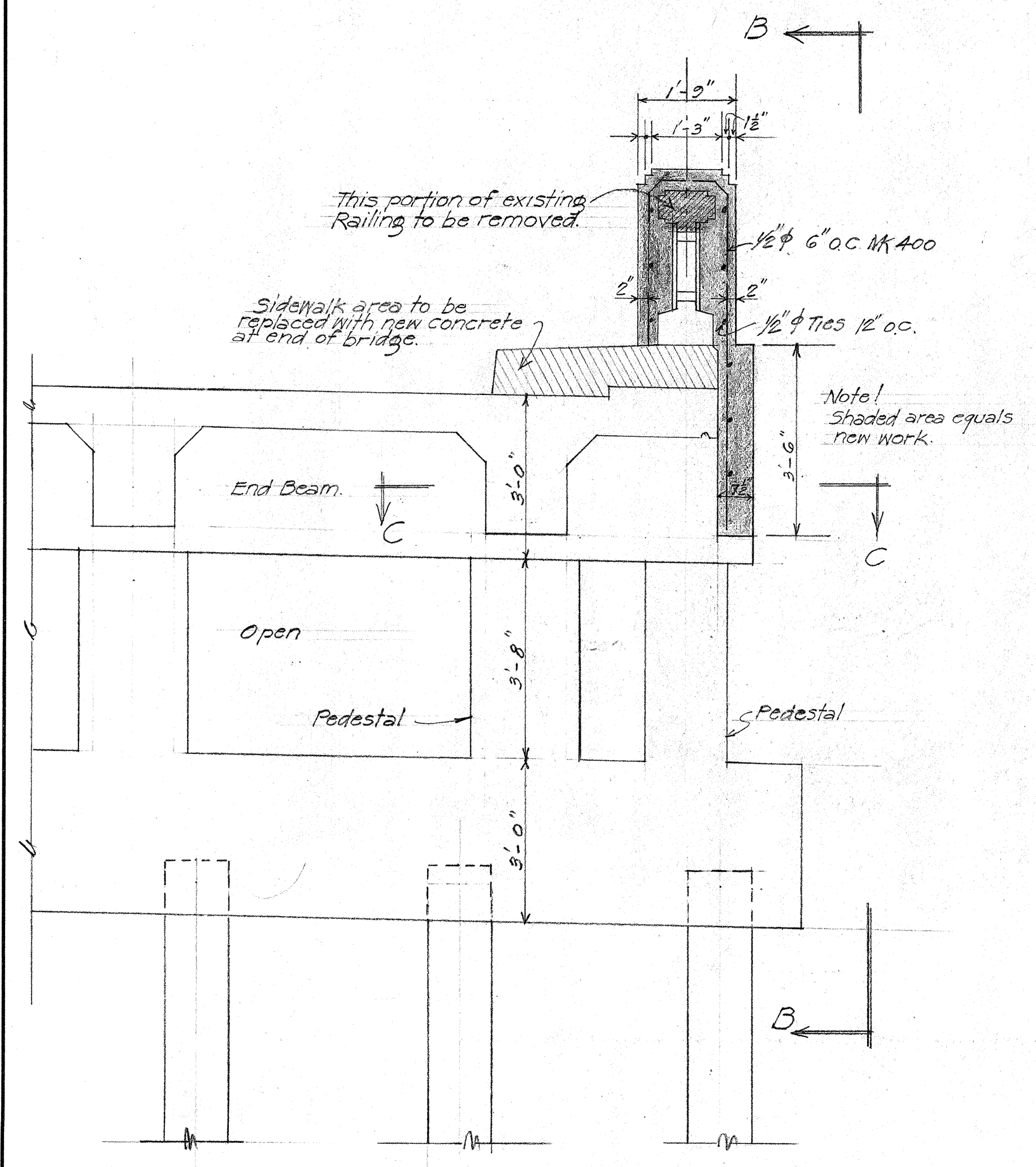
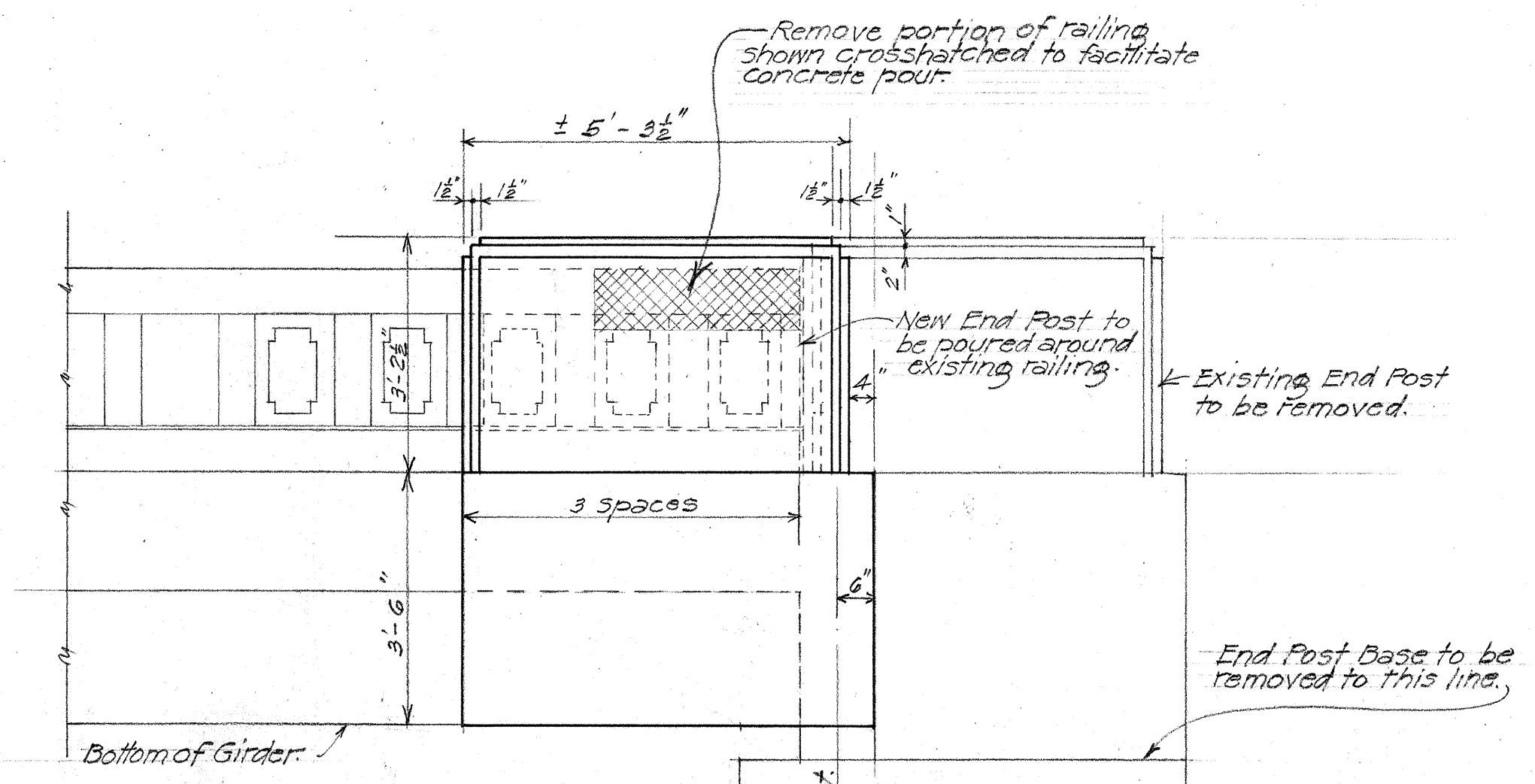
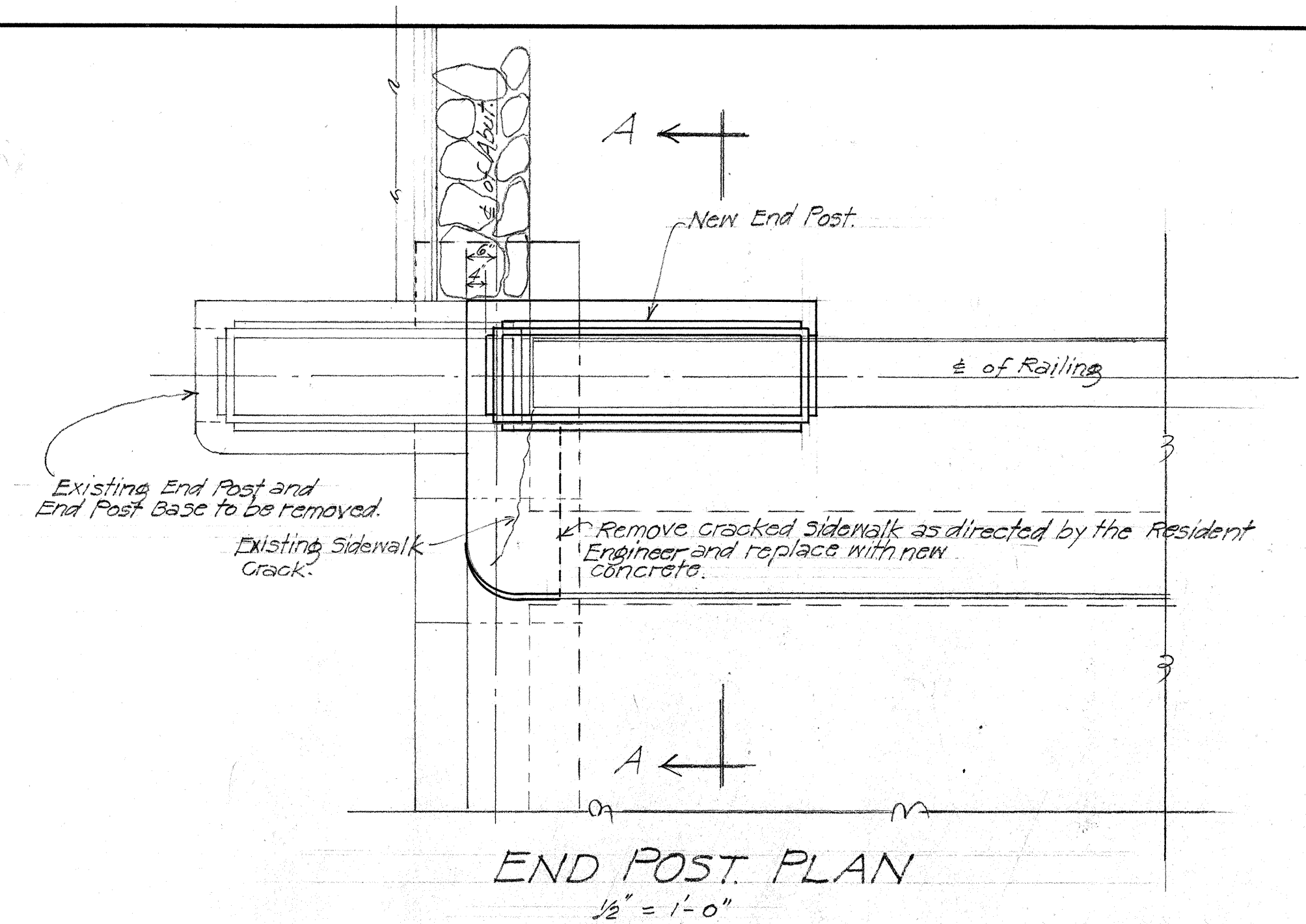
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
BRIDGE No. 2
Sta. 178+72.5 - 180+89.5
ROCK FILL DETAIL

KAM. HY. S.N.F.A.P. 96(2)
Jan. 1944

SHEET No. 6 OF 6 SHEETS

5111.9B

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	SNFAP 96			

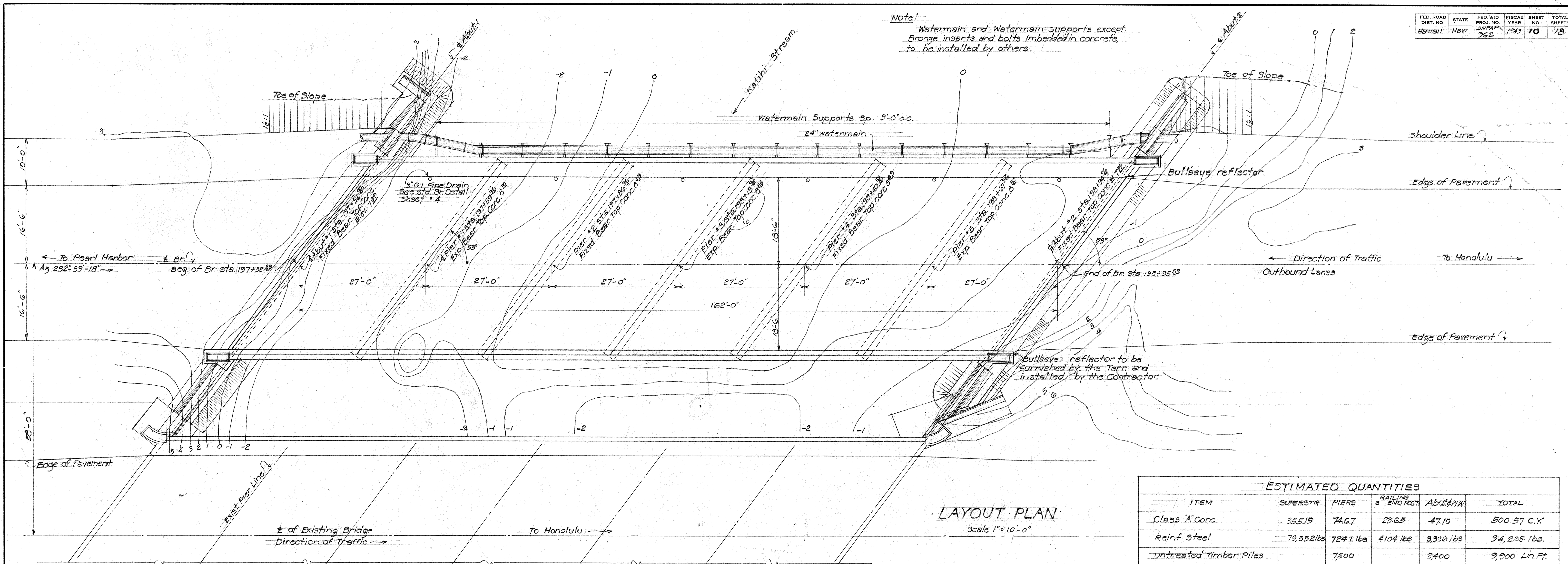


Note!
The above repair details apply to all 4 corners and quantities are figured accordingly.

ESTIMATED QUANTITIES
Class A-1 Concrete = 589 c.y.
Reinf. Steel = 414 lbs.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
REPAIR DETAILS
BRIDGE NO. 2
Sta. 178+72.5 - 180+82.5
KAM. HY. SNFAP 96(2)
MAR. 1945

ORIGINAL PLAN	DATE
DESIGNED BY: J. K. Bartels	3/1/45
TRACED BY: J. K. Bartels	3/1/45
QUANTITIES BY: J. K. Bartels	3/1/45
CHECKED BY: J. K. Bartels	3/1/45
NO.	

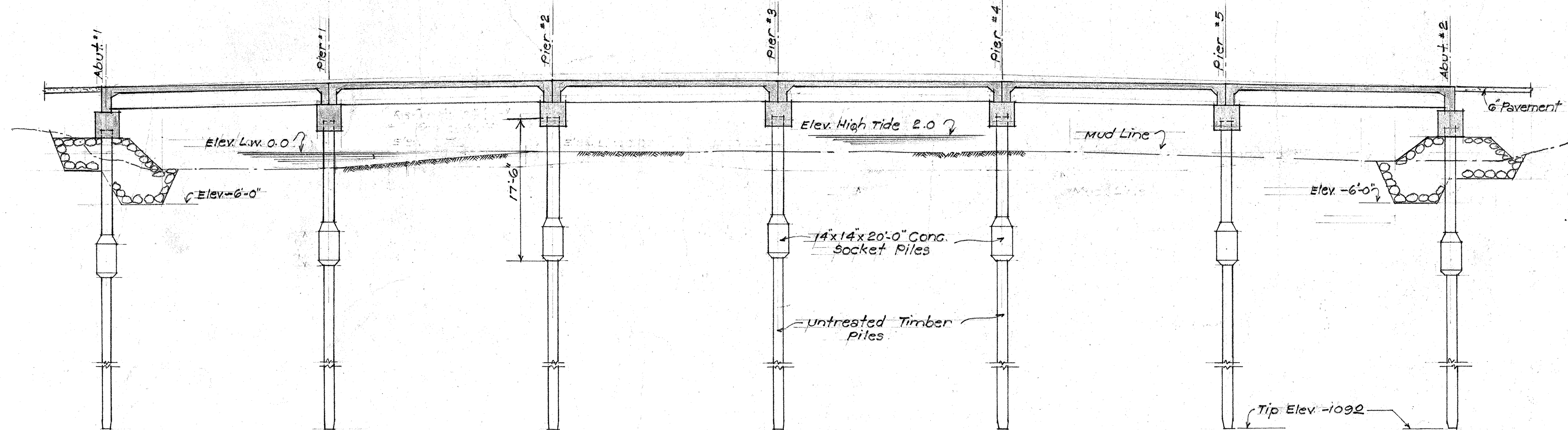


LAYOUT PLAN
Scale 1" = 10'-0"

ESTIMATED QUANTITIES					
ITEM	SUPERSTR.	PIERS	RAILING & END POST	ABUTMENT	TOTAL
Class 'A' Conc.	355.15	74.67	23.65	47.10	500.57 C.Y.
Reinf. Steel	79,552 lbs	724,116 lbs	4,104 lbs	9,326 lbs	94,228 lbs.
Untreated Timber Piles		7,500		2,400	9,900 Lin. Ft.
14"x14" Conc. Socket Piles 20'-0" long		75		24	99 pc.
3" Bituminous Wearing Surface					28.3 Tons
C.R.M.					20.0 C.Y.
C.R.M. Paving					45.4 C.Y.
Hand Placed Rock Fill					375.0 C.Y.
Str. Exc.					328.0 C.Y.

Note: The above Reinf. steel quantity does not include steel in concrete socket Piles.
Total Reinf. Steel in conc. socket Piles = 46,035 lbs

NOTE: All concrete except in socket Piles Class 'A'.
concrete in socket Piles Class 'E'.
Piles and Pilecaps to have integral waterproofing Tricosol or equal. See special provisions.
Curb, sidewalk, and railings to be poured after release of falsework.
Untreated Timber Piles to be of 40' and 60' lengths. 40' Piles shall have a minimum tip diam. of 12". See Std. Br. Det. Sheet for Splice.

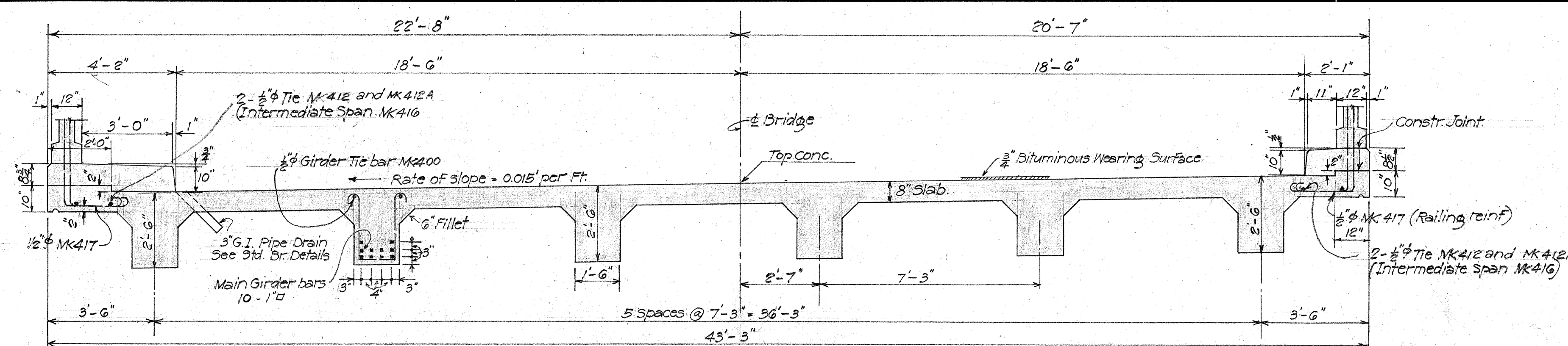


SECTION ALONG BRIDGE
Scale 1" = 10'

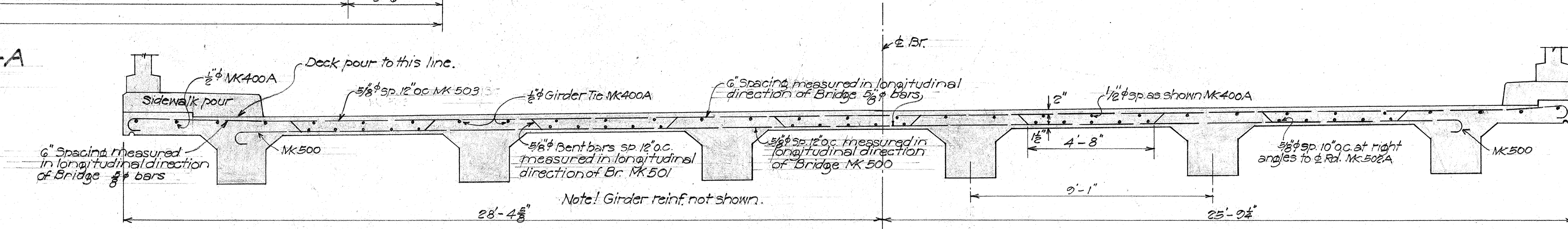
ORIGINAL PLAN
DESIGNED BY: J. S. ...
TRACED BY: ...
QUANTITIES BY: ...
CHECKED BY: ...
DATE: ...

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
BRIDGE NO. 1

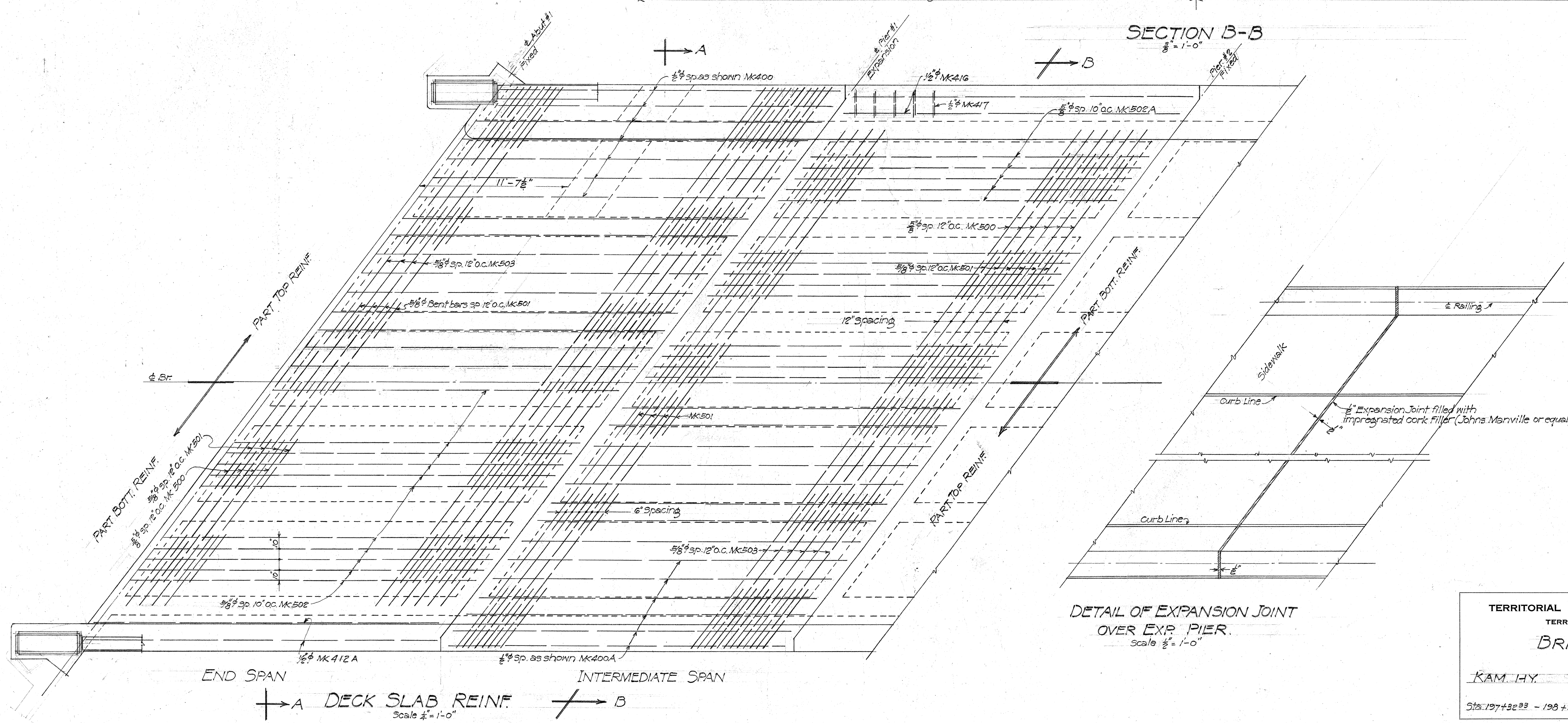
KAM. H.Y. SNFAP 962)
Sta. 197+32.23 - 198+95.53 Apr. 1943



NORMAL SECTION A-A
AT CENTER OF SPAN
Scale $\frac{3}{8}$ " = 1'-0"



SECTION B-B
Scale $\frac{3}{8}$ " = 1'-0"



DETAIL OF EXPANSION JOINT
OVER EXP. PIER.
Scale $\frac{1}{2}$ " = 1'-0"

ORIGINAL PLAN
NOTE BOOK
No.

SURVEY PLOTTED BY: DATE: 5/27/43
DESIGNED BY: F. J. W. 5/27/43
TRACED BY: J. J. W. 5/27/43
QUANTITIES BY: J. J. W. 5/27/43
CHECKED BY: J. J. W. 5/27/43

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

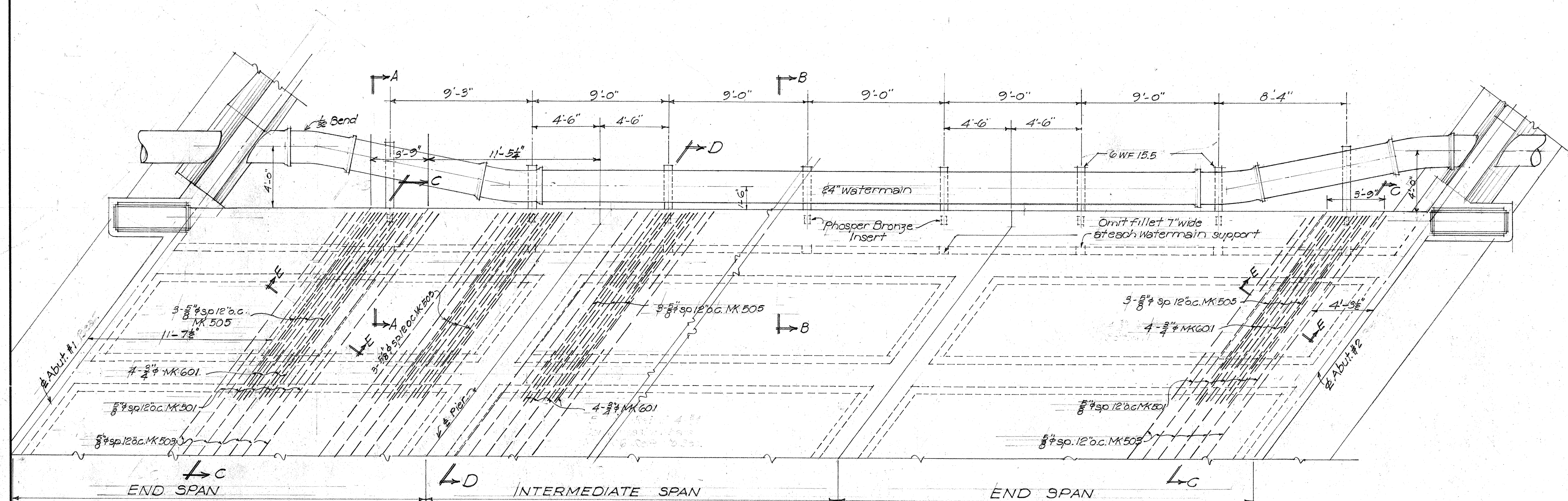
BRIDGE No. 1

KAM. H.Y. SNFAP 96(2)

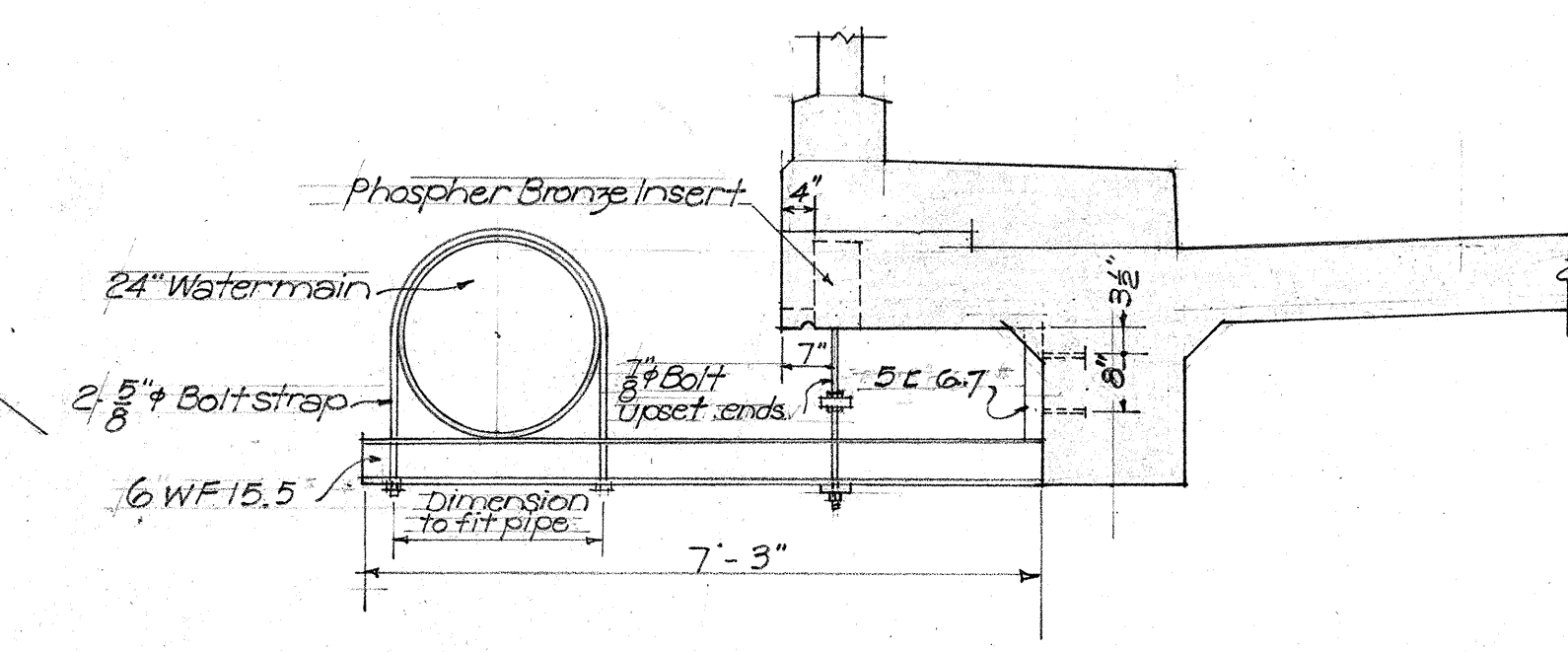
Sta. 197+32.33 - 198+35.59 Apr. 1943

SHEET No. 2 OF 9 SHEETS

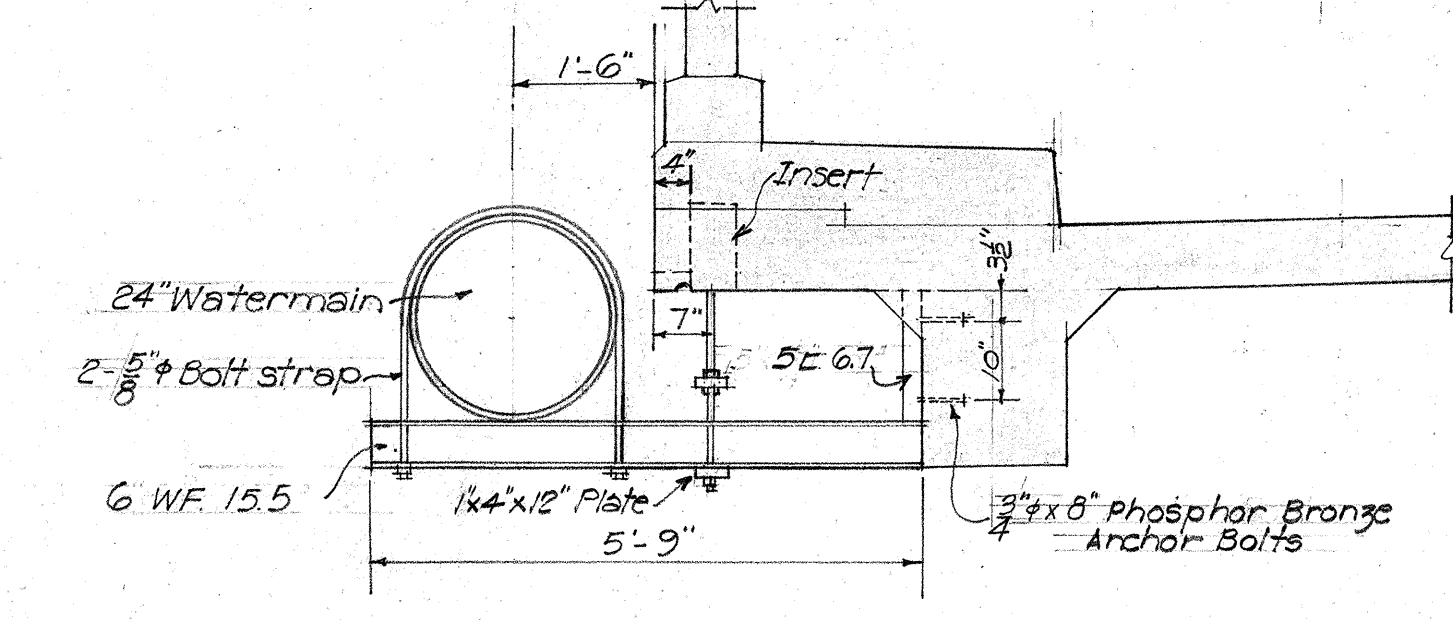
5111.11



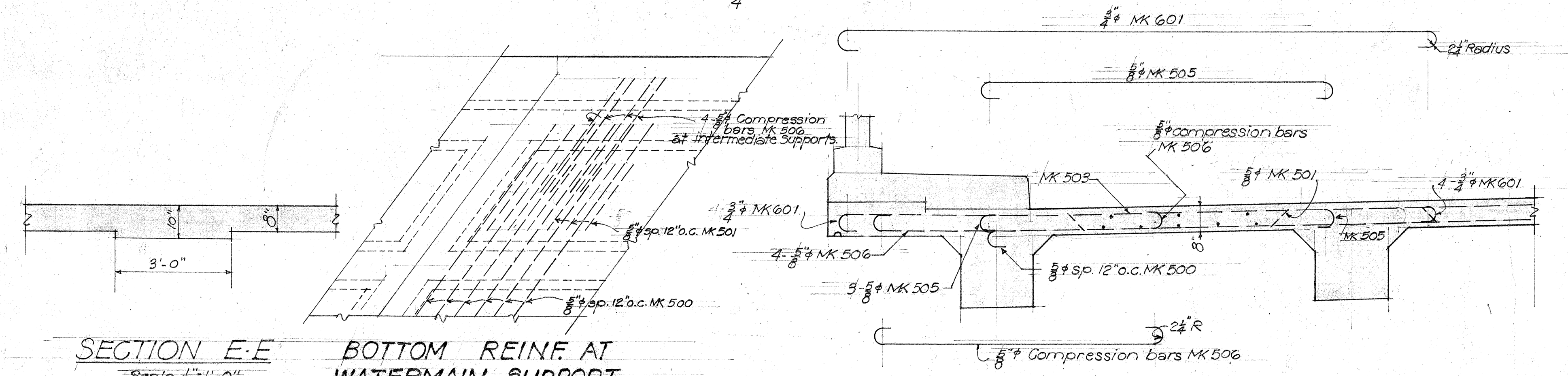
DECK TOP REINF. AT WATERMAIN SUPPORTS (Long. Deck bars not shown)
PART LAYOUT PLAN 24" WATERMAIN
 Scale $\frac{1}{4}" = 1'-0"$



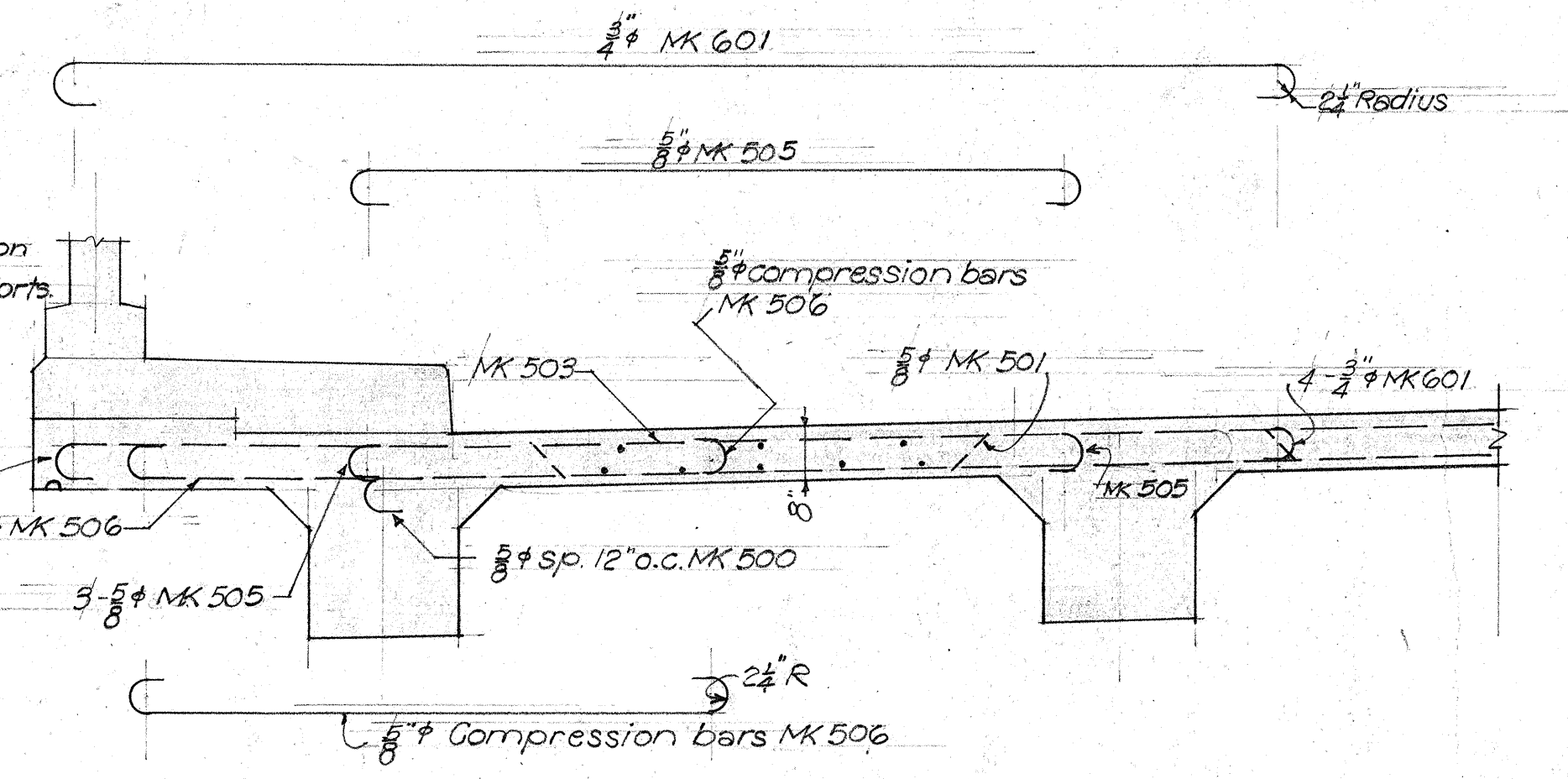
Note: Refer to Bridge No. 2 Sheet 3 for Pipe Support details not shown here.
 Required: 17 Inserts
 34 $\frac{3}{8}" \times 8"$ Phosphor Bronze
 4 Anchor Bolts.
SECTION A-A
 Scale $\frac{1}{2}" = 1'-0"$



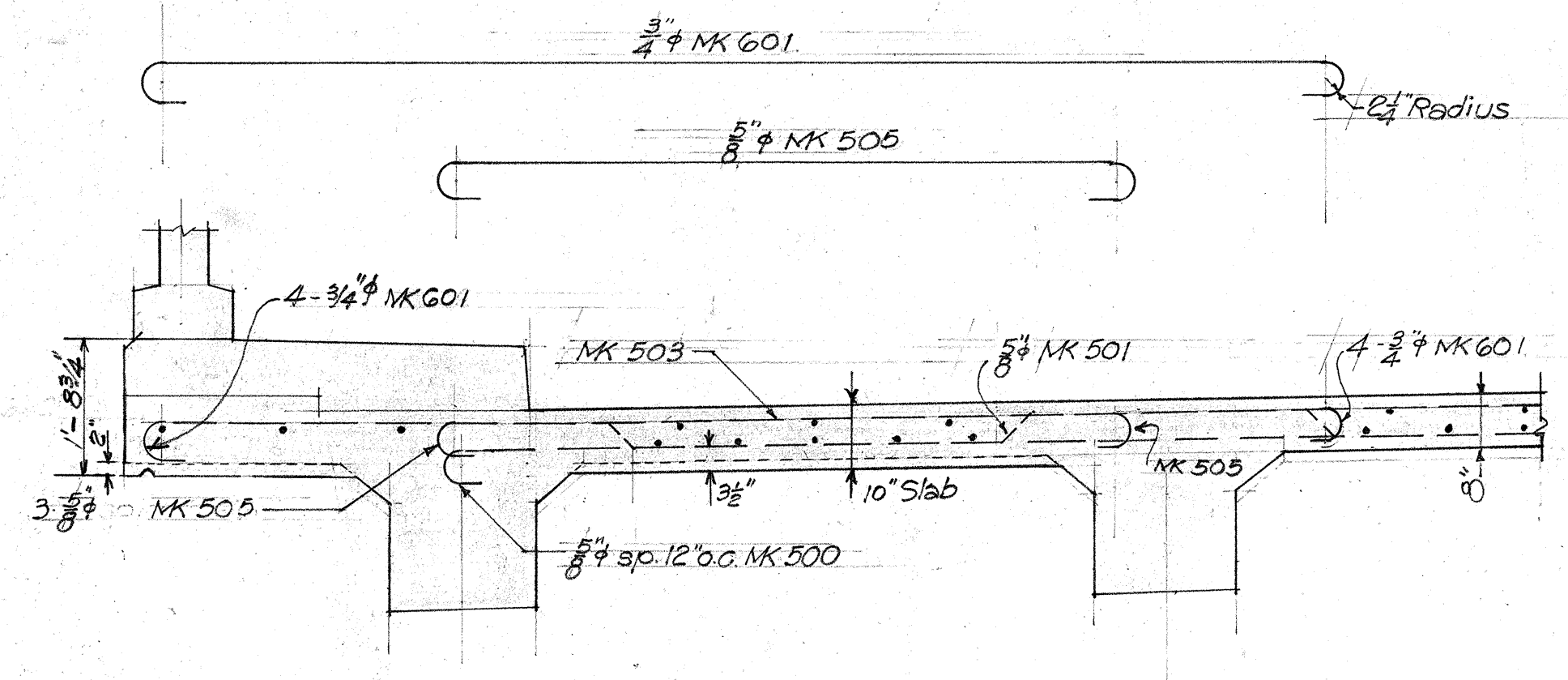
SECTION B-B
 Scale $\frac{1}{2}" = 1'-0"$



SECTION E-E
 Scale $\frac{1}{2}" = 1'-0"$



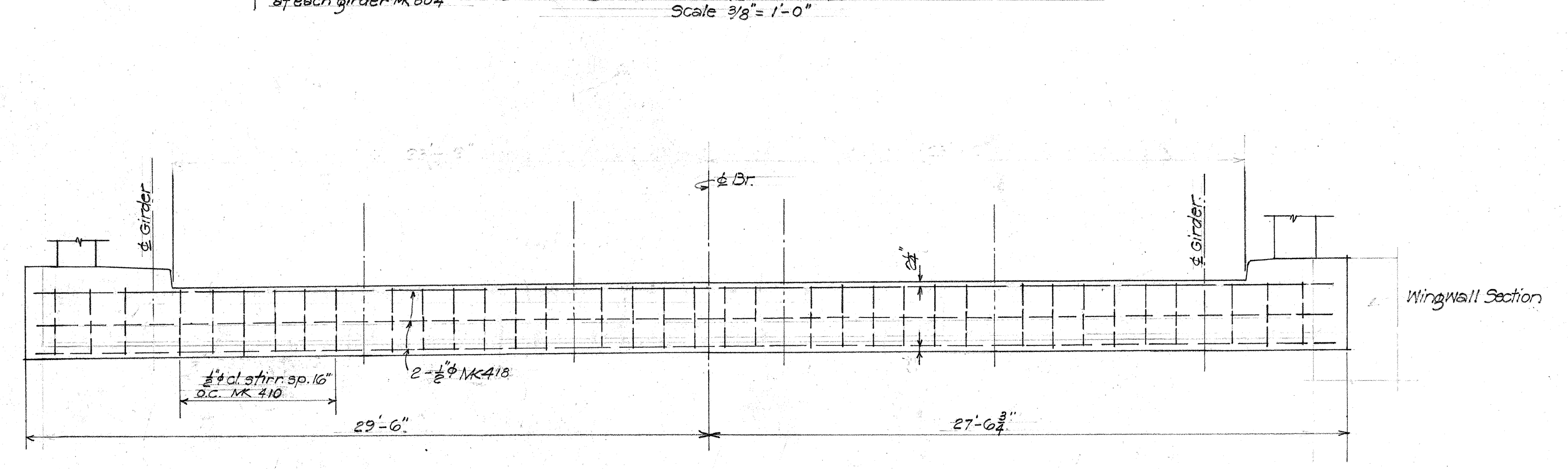
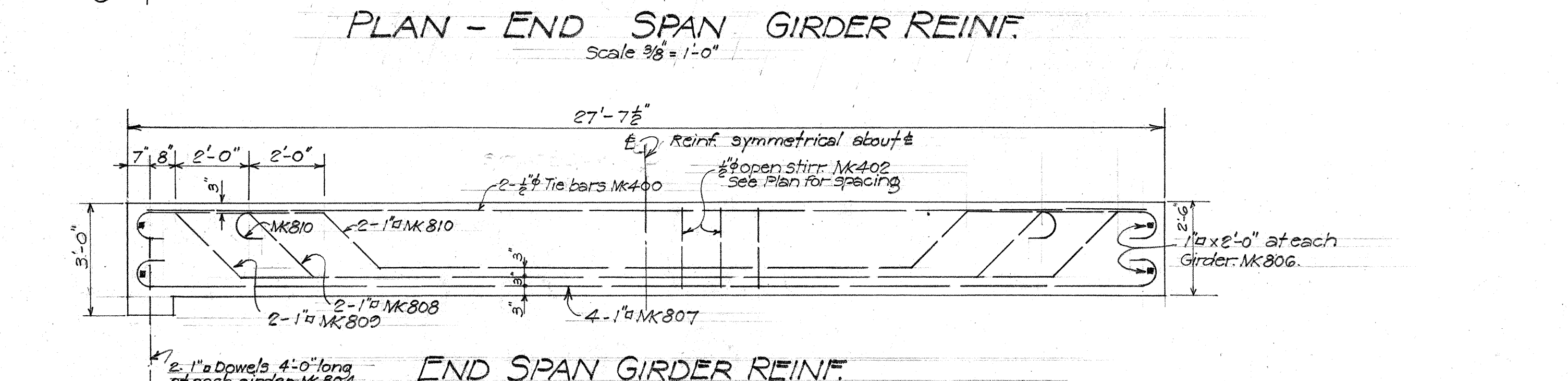
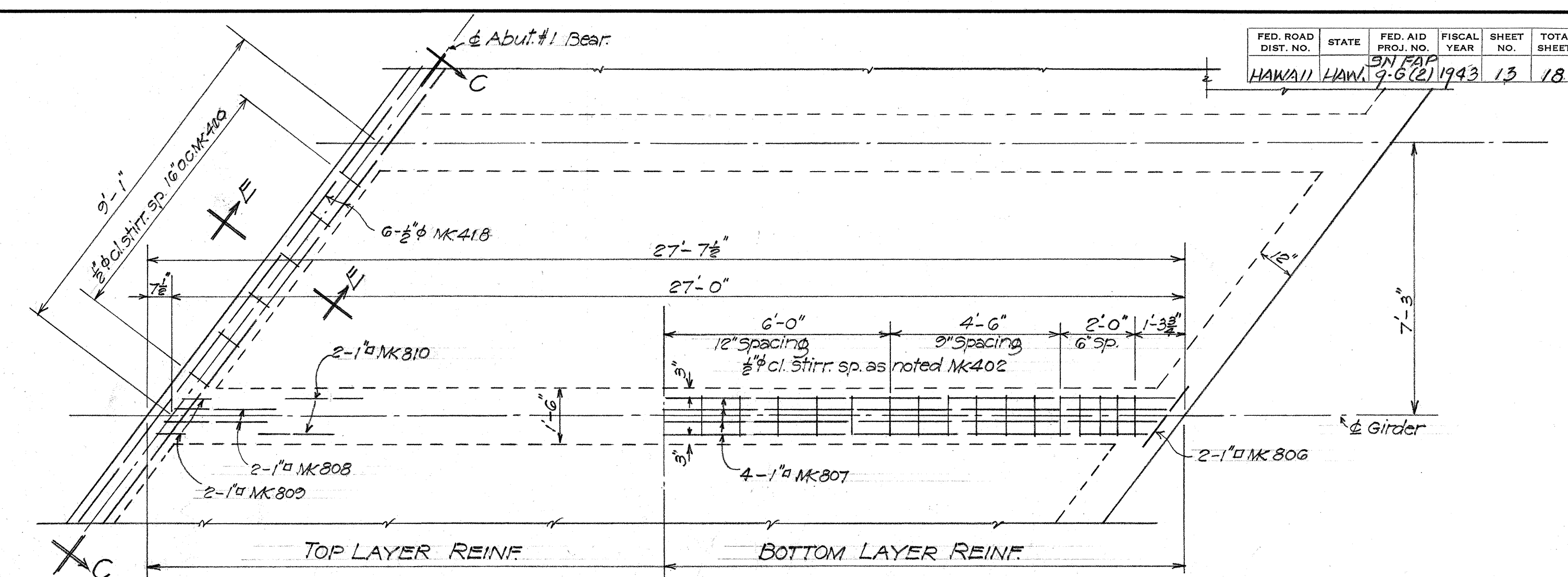
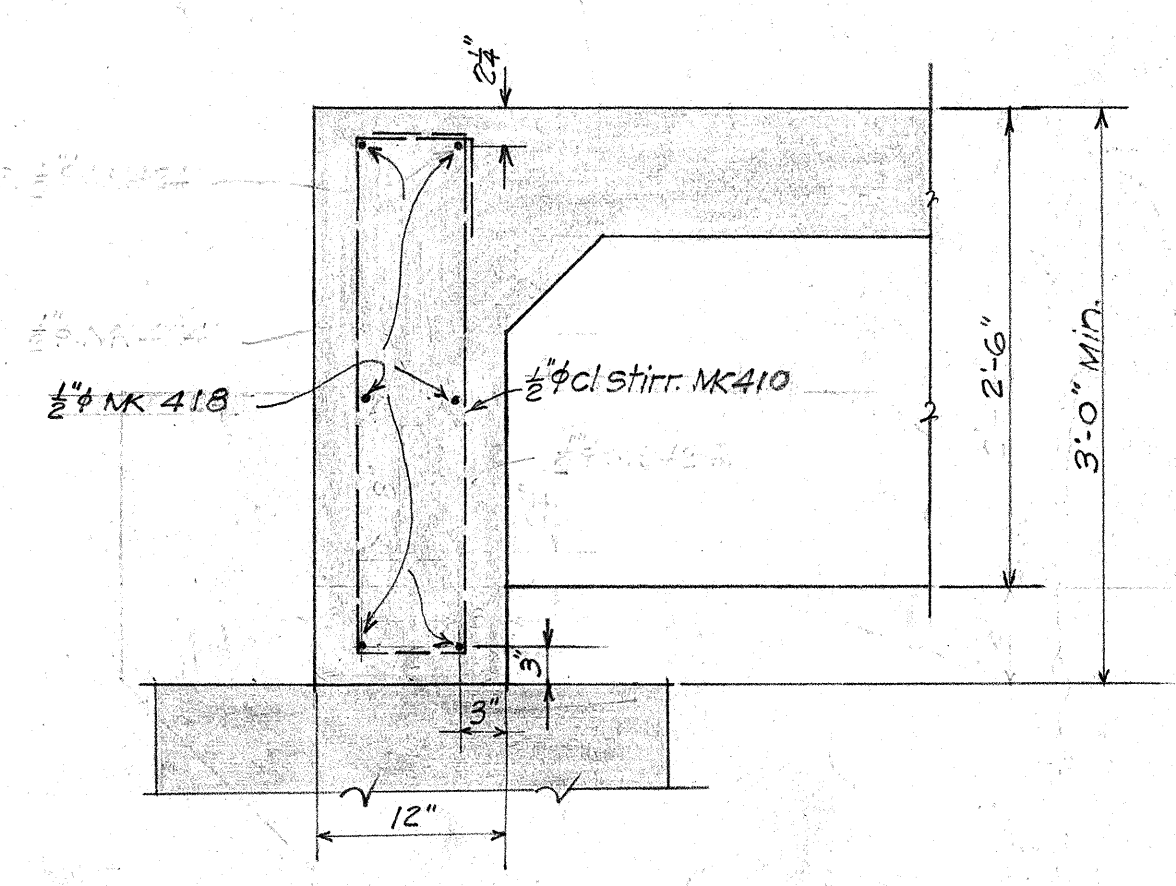
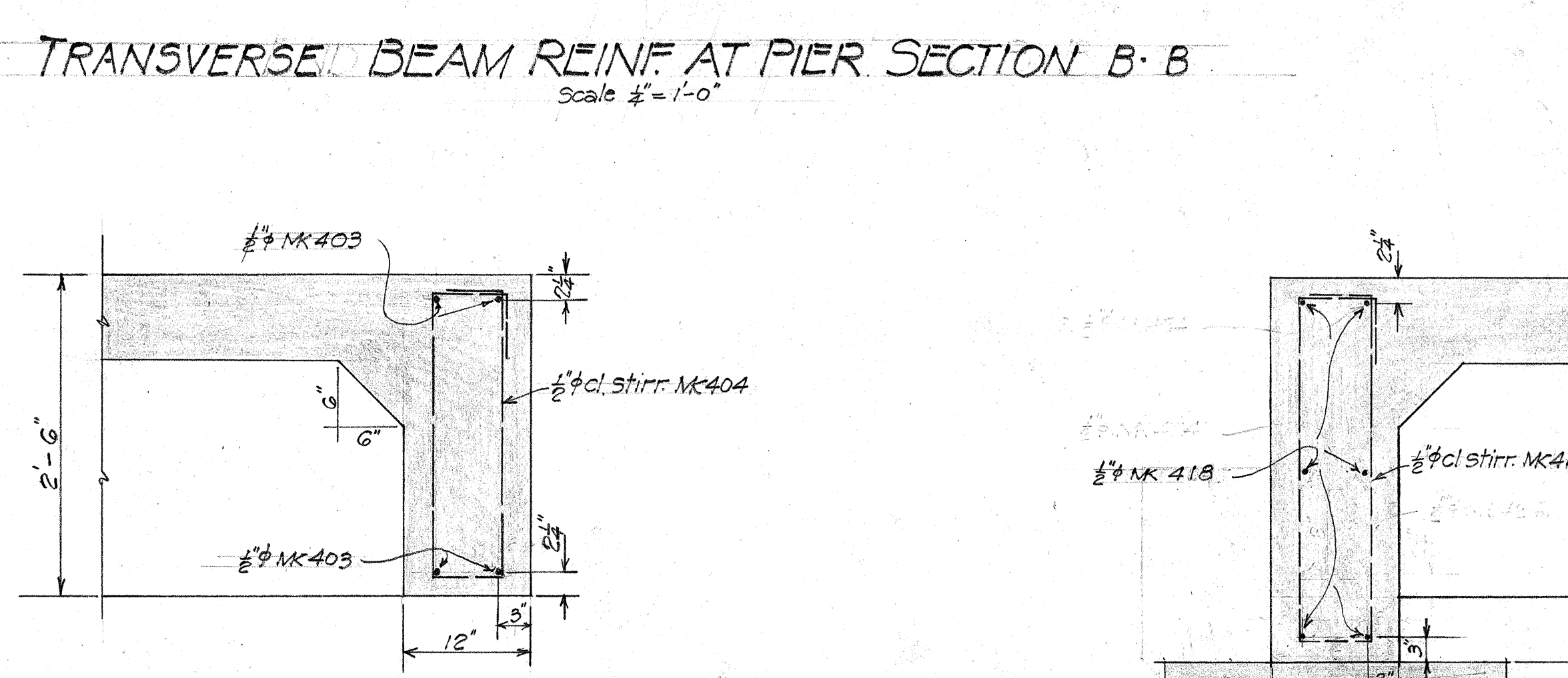
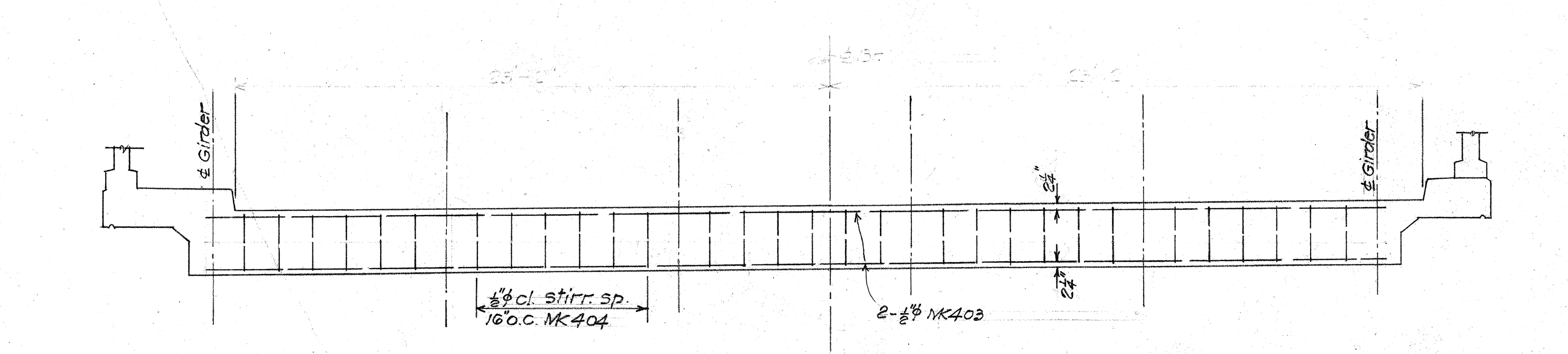
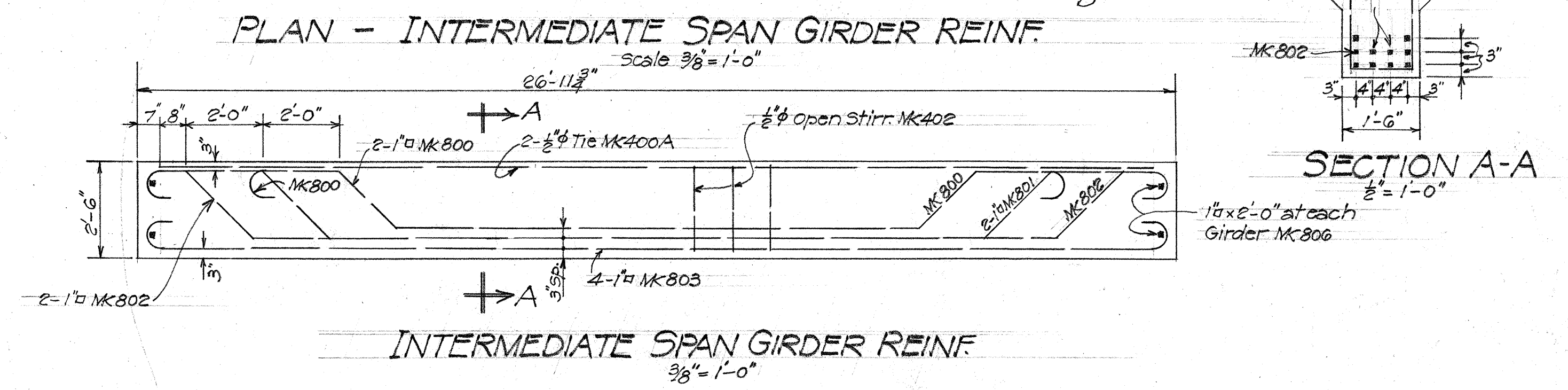
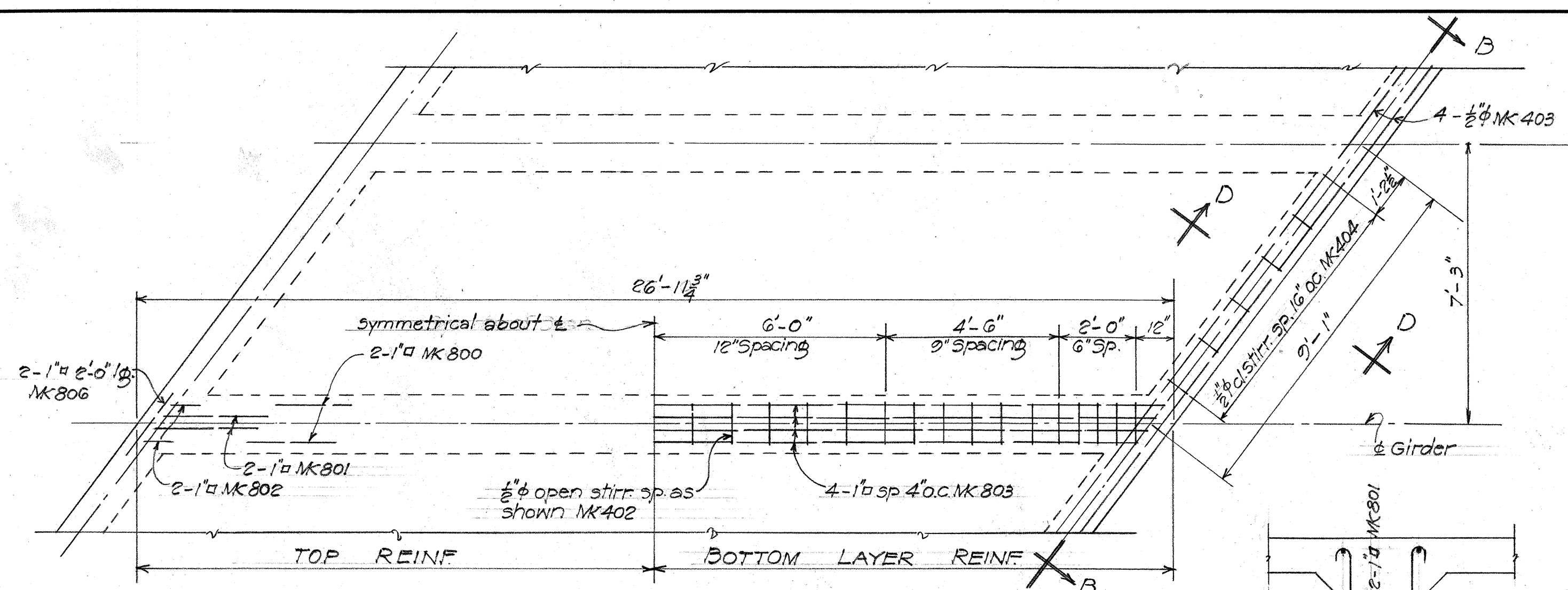
SECTION D-D
 Scale $\frac{1}{2}" = 1'-0"$



SECTION C-C
 Scale $\frac{1}{2}" = 1'-0"$

ORIGINAL PLAN
 SURVEY PLOTTED BY: DATE: 5/27/43
 DESIGNED BY: J. S. Thompson
 TRACED BY: J. S. Thompson
 QUANTITIES BY: J. S. Thompson
 CHECKED BY: J. S. Thompson

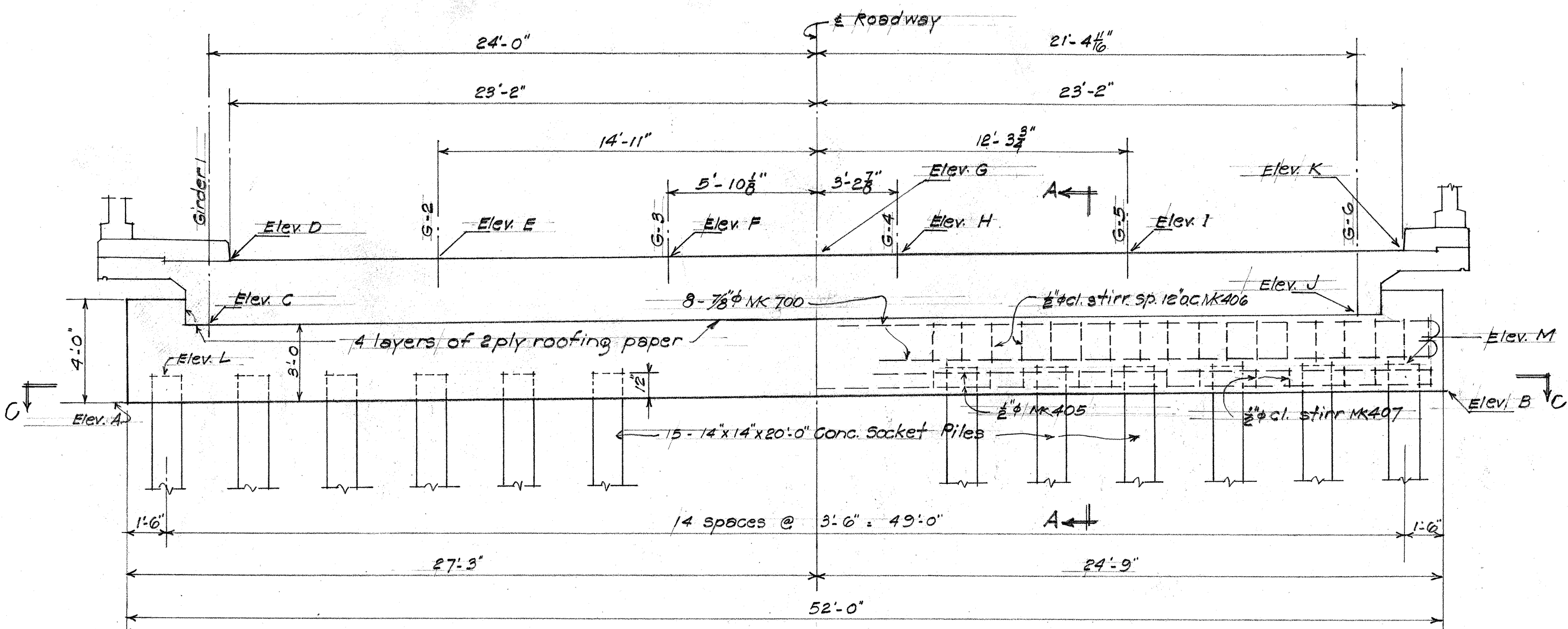
51111.12



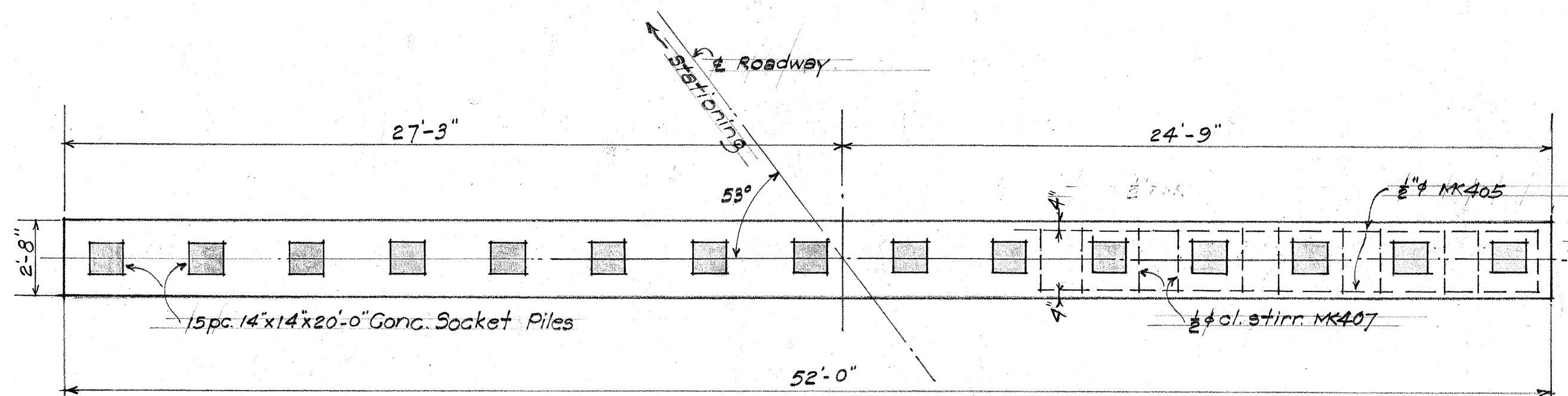
SURVEY PLOTTED BY: DATE: 1/27/43
 DESIGNED BY: J. H. HARRIS
 TRACED BY: J. H. HARRIS
 QUANTITIES BY: J. H. HARRIS
 CHECKED BY: J. H. HARRIS

ORIGINAL PLAN
 NOTE BOOK
 No.

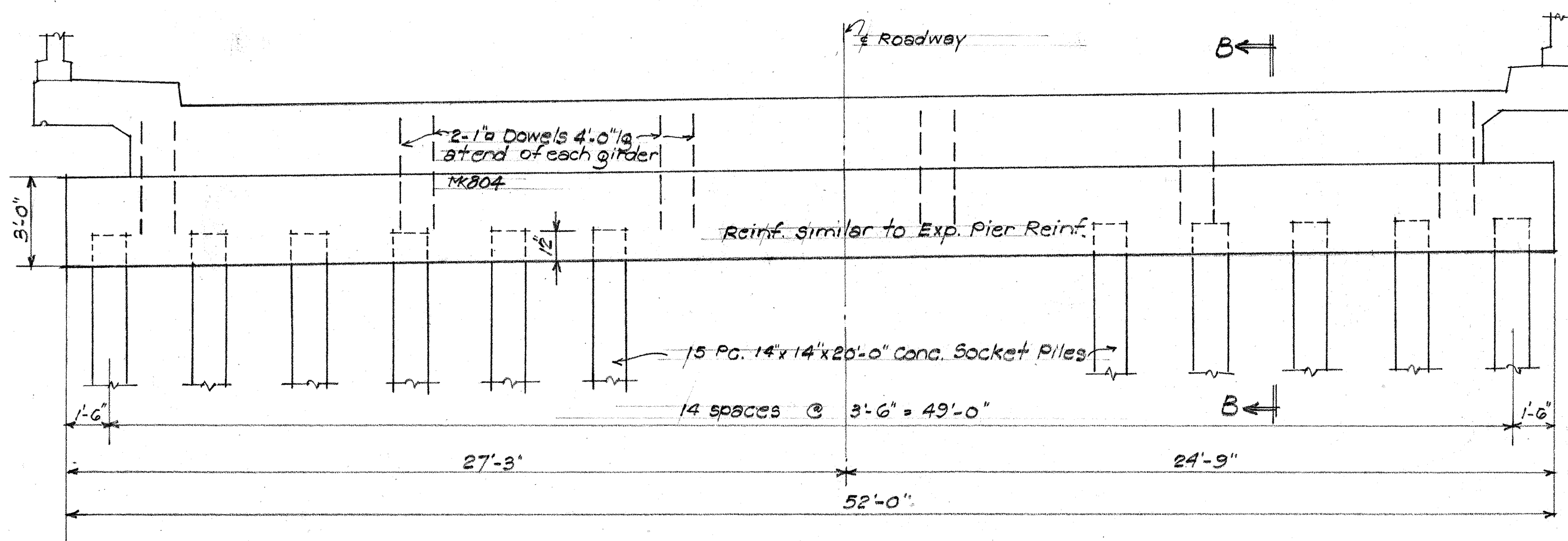
TERRITORIAL HIGHWAY DEPARTMENT
 TERRITORY OF HAWAII
BRIDGE No. 1
 PEARL HARBOR RD. SNFAR 96(2)
 Sta 197+32.23 - 198+95.23
 APR 1943
 SHEET No 4 OF 9 SHEETS



EXPANSION PIER SECTION
Scale 1/4" = 1'-0"



SECTION C-C
Scale 1/4" = 1'-0"

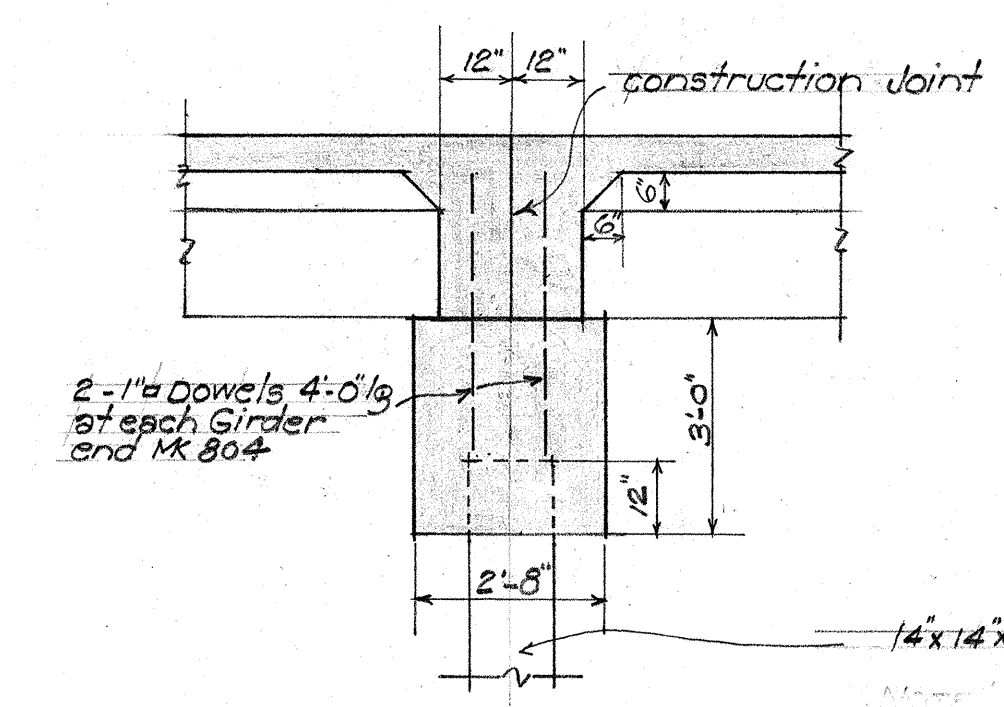


FIXED PIER SECTION
Scale 1/4" = 1'-0"

PIER ELEVATION (Along & Pier bear.)

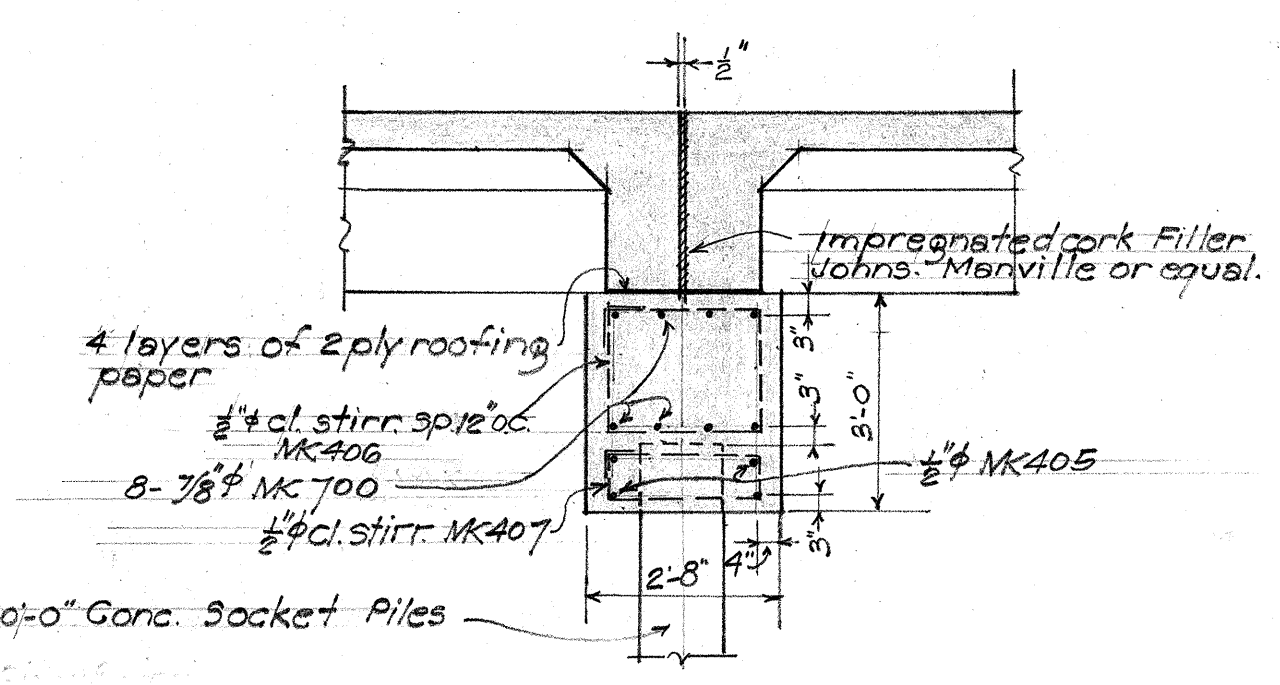
Elevation No.	Pier #1	Pier #2	Pier #3	Pier #4	Pier #5
A	261	272	270	257	230
B	225	221	334	324	323
C (Bottom Girder)	563	525	524	522	536
D (Curb)	812	824	825	812	728
E	820	824	820	826	823
F	826	823	820	820	820
G - & Gr.	820	823	825	823	820
H	822	822	823	824	826
I	823	820	820	827	822
J (Bottom Girder)	525	612	620	623	617
K (Curb)	823	823	821	822	823
L (Pile Cutoff)	325	323	322	323	323
M " "	324	420	422	422	420

Note! Deck and Curb elevations are conc. elevation



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

NOTE! Pier Reinf. Same as in Exp. Pier



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

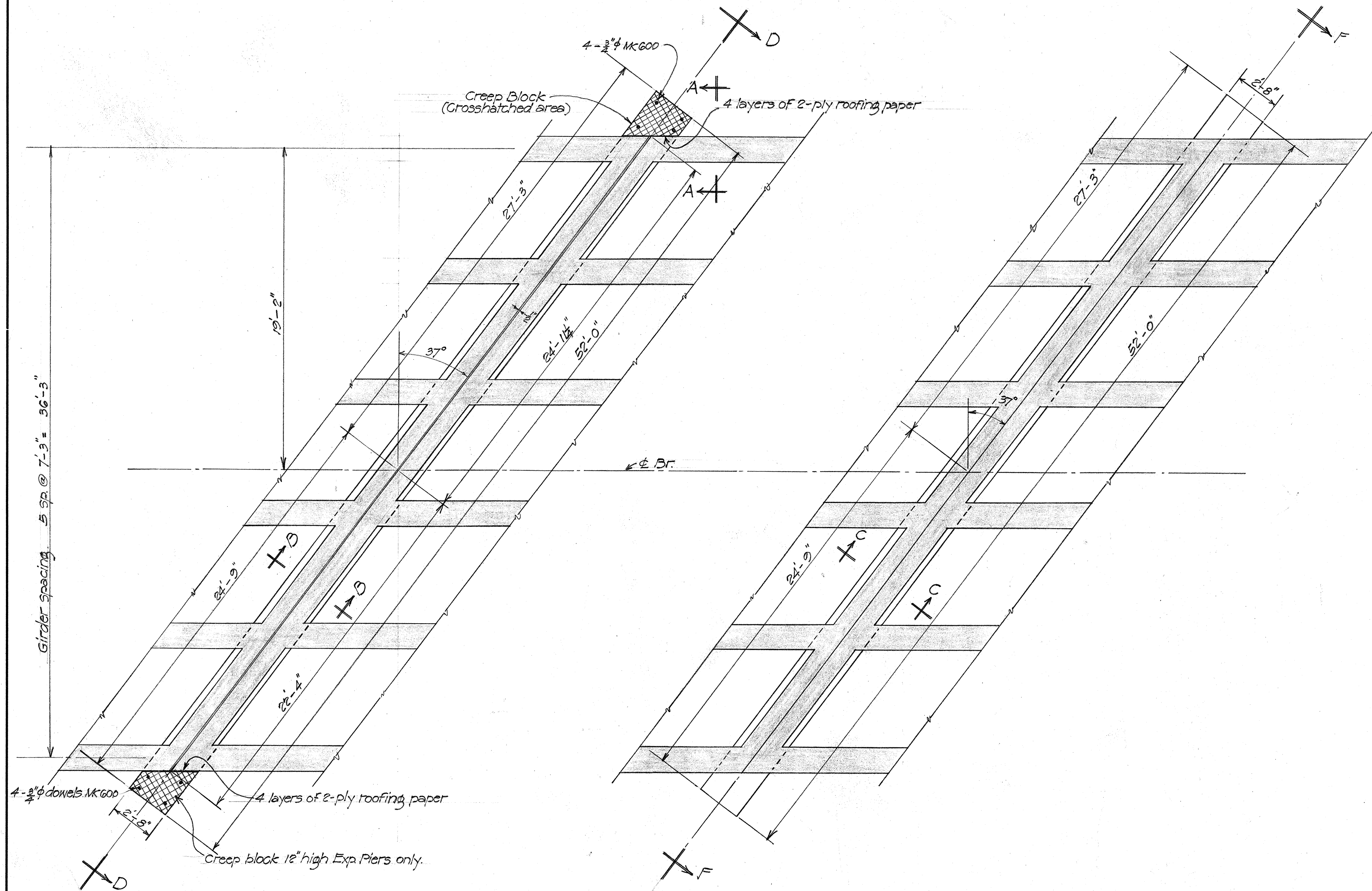
ORIGINAL PLAN
DATE: 11/26/43
DRAWN BY: L. Y. H. / J. H. A. / J. H. A.
CHECKED BY: J. H. A. / J. H. A. / J. H. A.
NOTE BOOK No.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

BRIDGE NO. 1

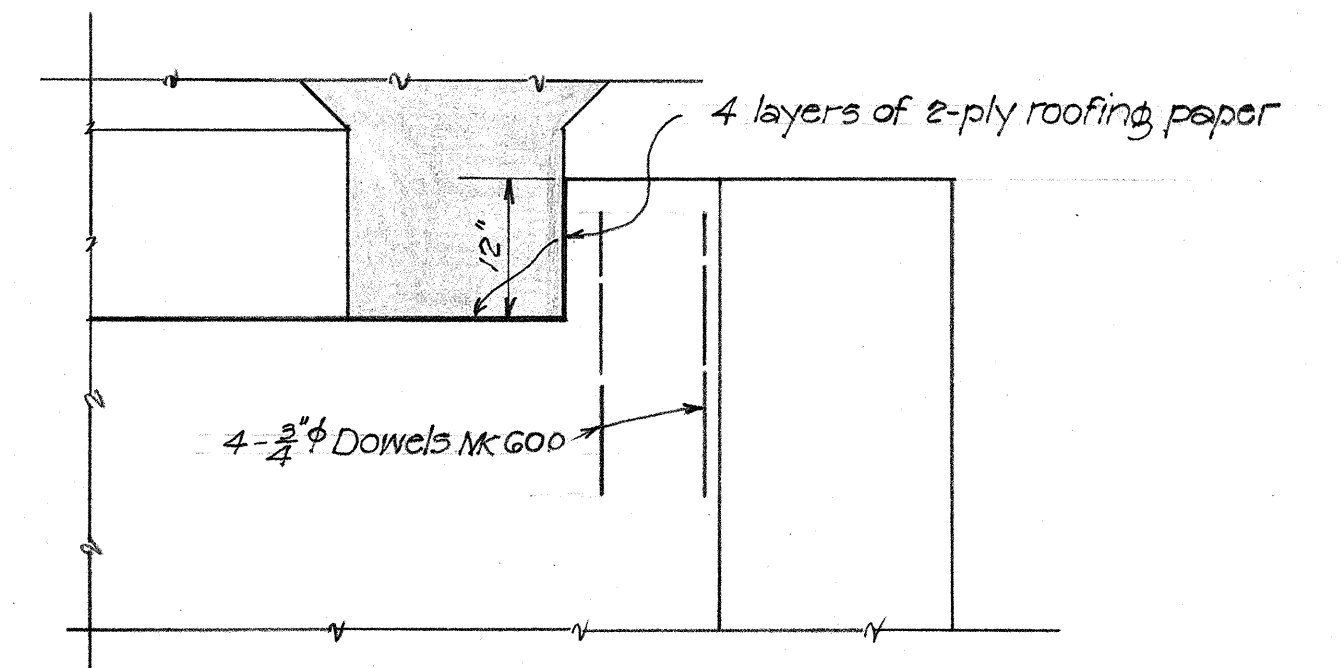
KAM. HY. SNFAP 96(2)

Sta. 1974.3223-1954.9552 Apr. 1943

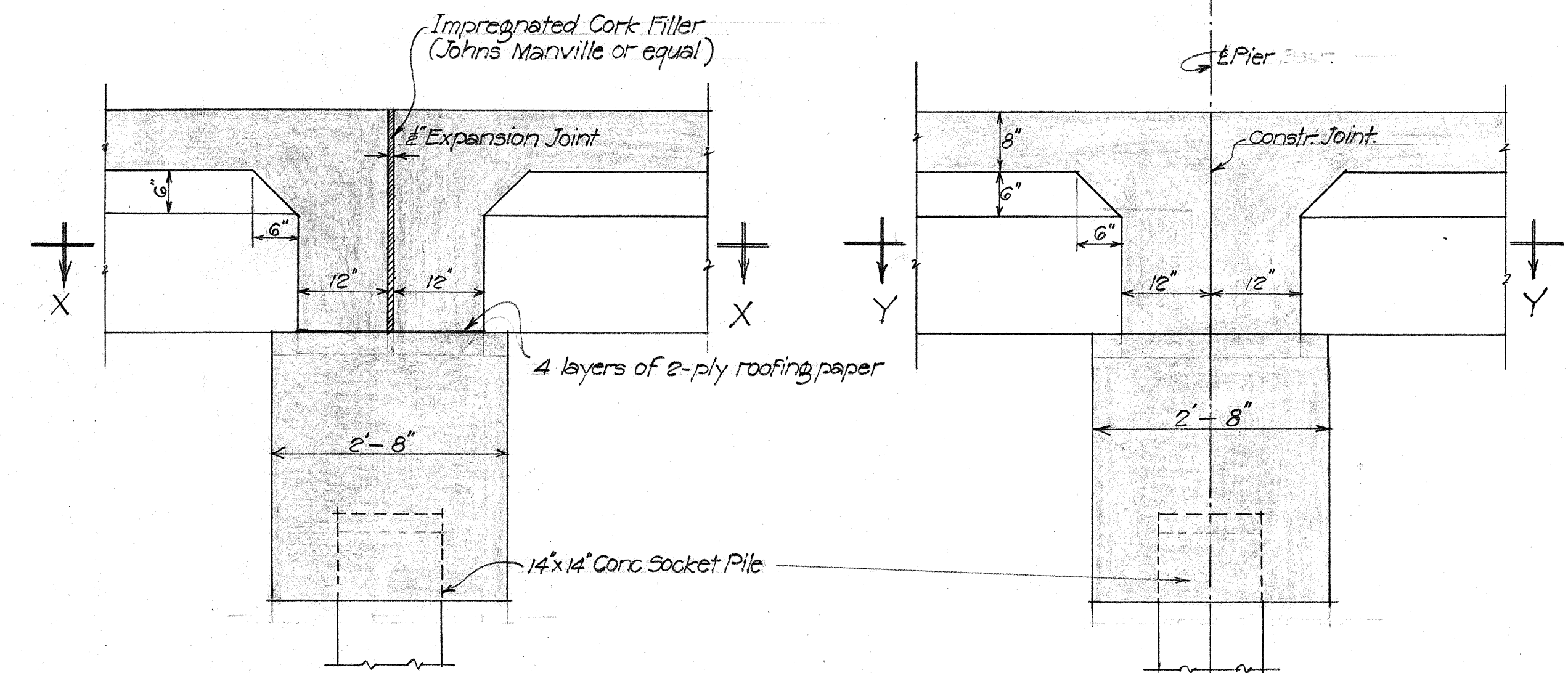


EXP. PIER NO. 1 SEC. X-X
Scale 1/4" = 1'-0"

FIXED PIER NO. 2 SEC. Y-Y
Scale 1/4" = 1'-0"



CREEP BLOCK ELEVATION A-A
Scale 1/4" = 1'-0"



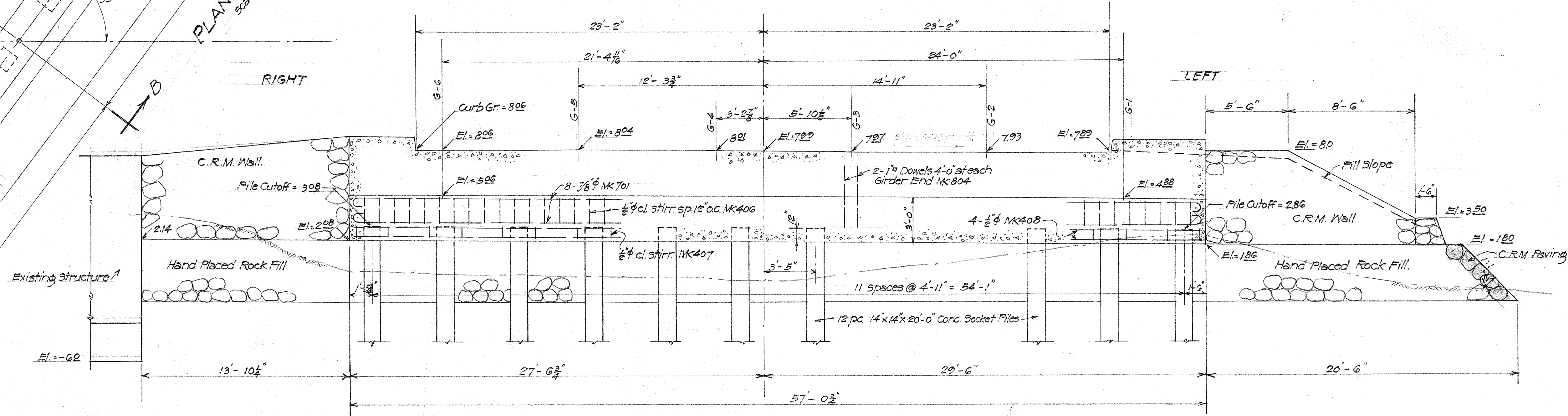
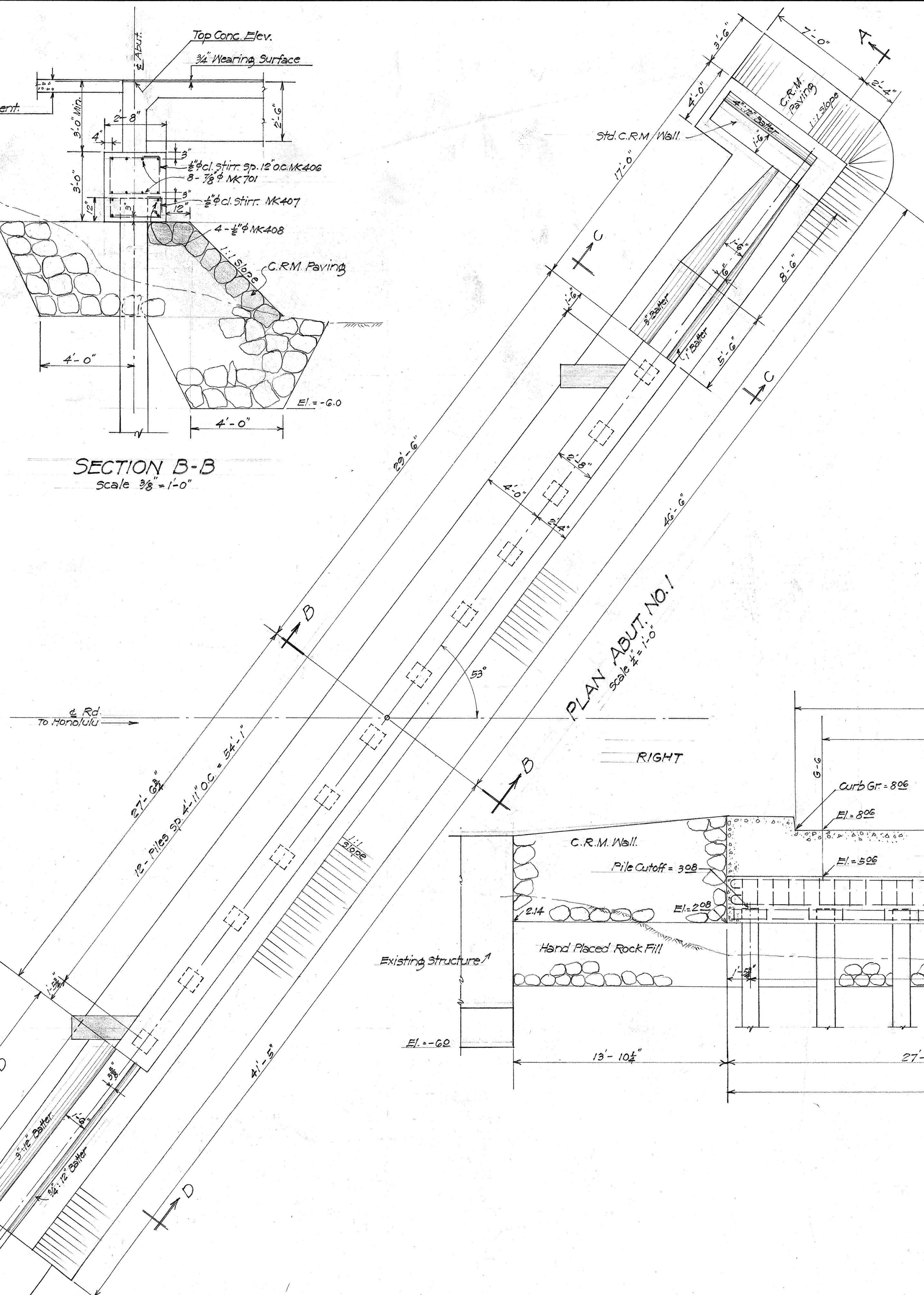
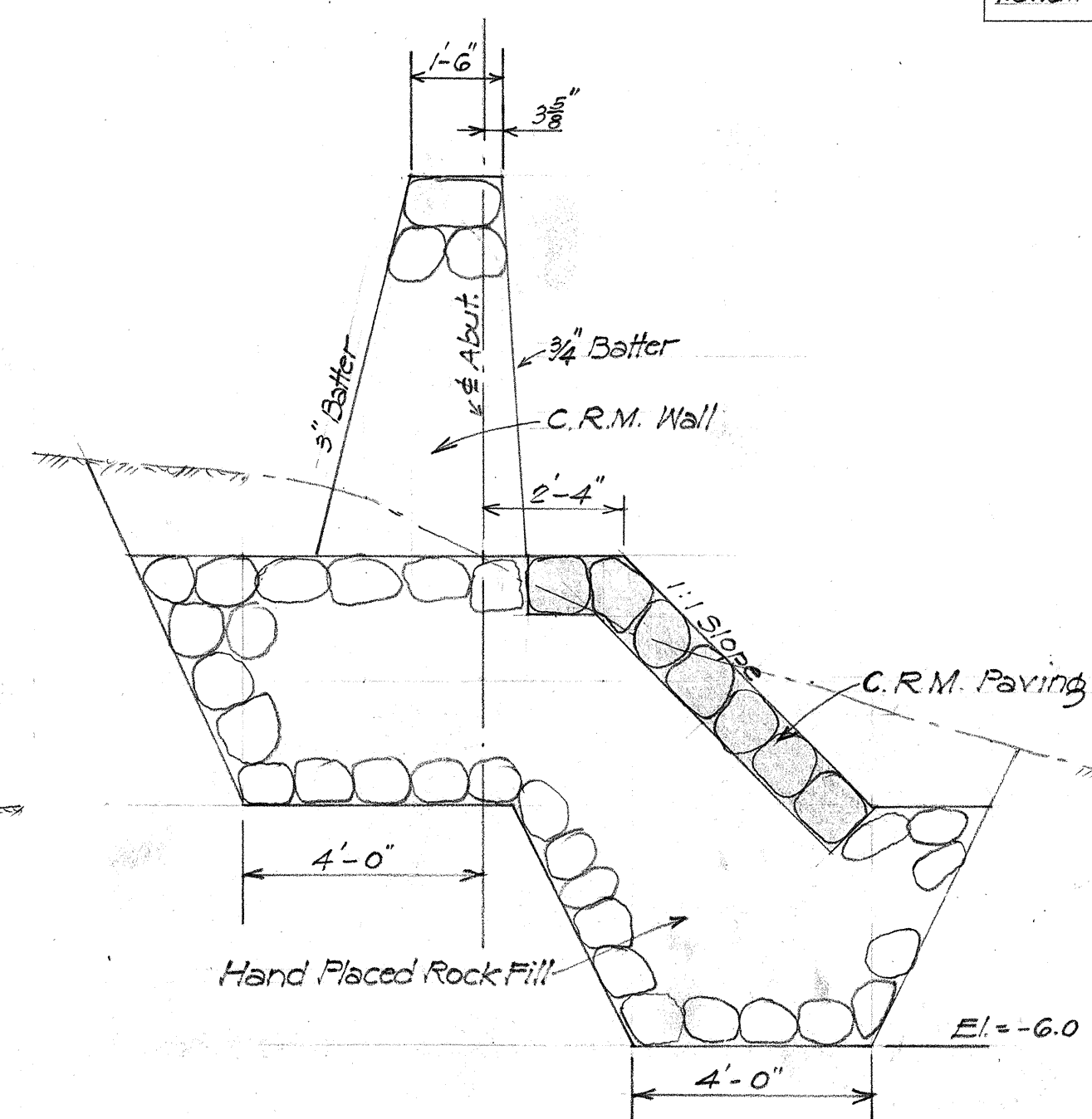
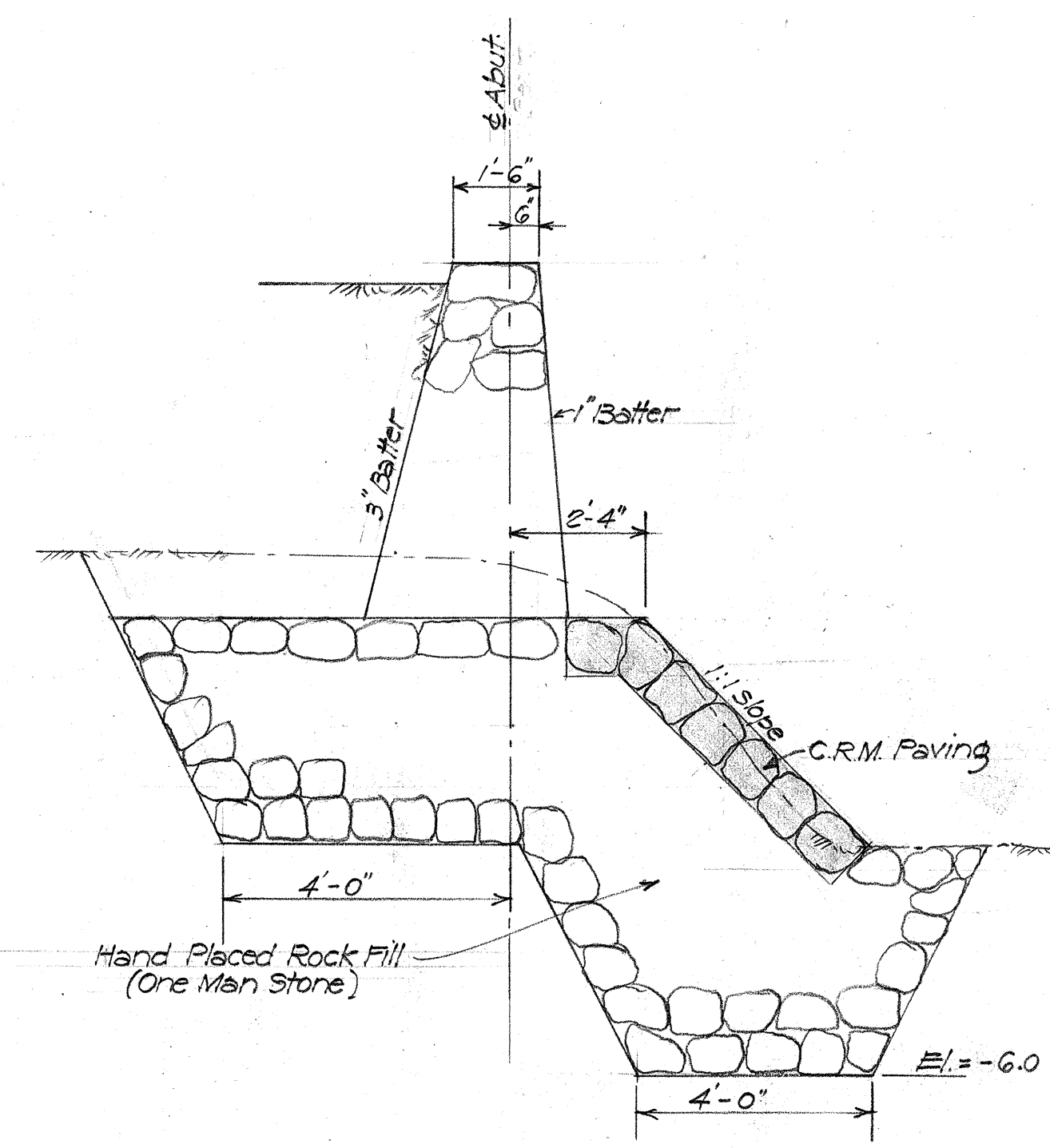
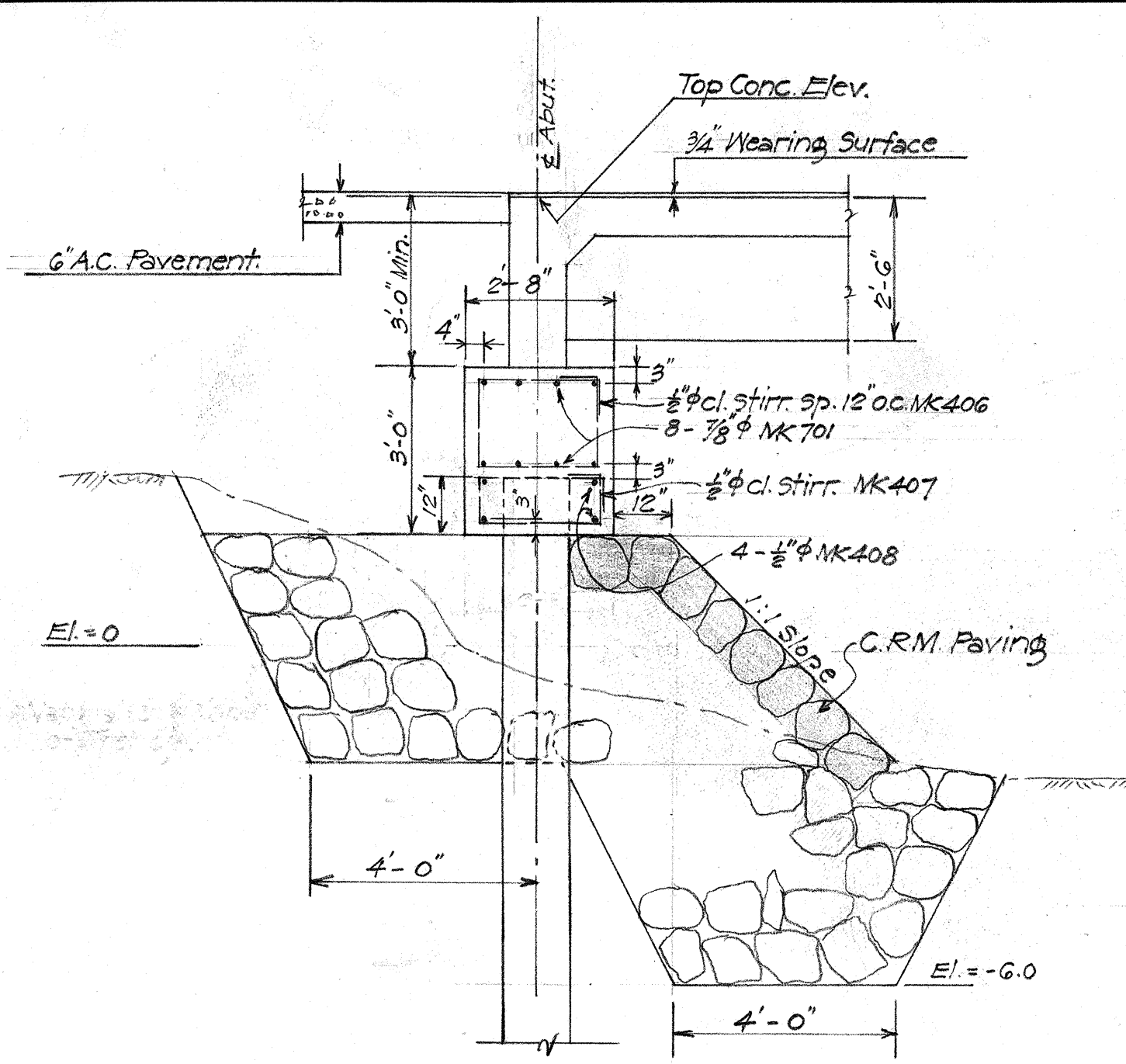
DETAIL EXP BEARING SEC. B-B
Scale 1/4" = 1'-0"

DETAIL FIXED BEARING
SECTION C-C
Scale 1/4" = 1'-0"

ORIGINAL PLAN
NOTE BOOK
No.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
BRIDGE NO. 1
KAM. HY. SNFAP 9-G(2)
Sta. 197+32.33 - 198+35.33
Apr 1943

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
Hawaii	Haw.	501-202	1943	17	18

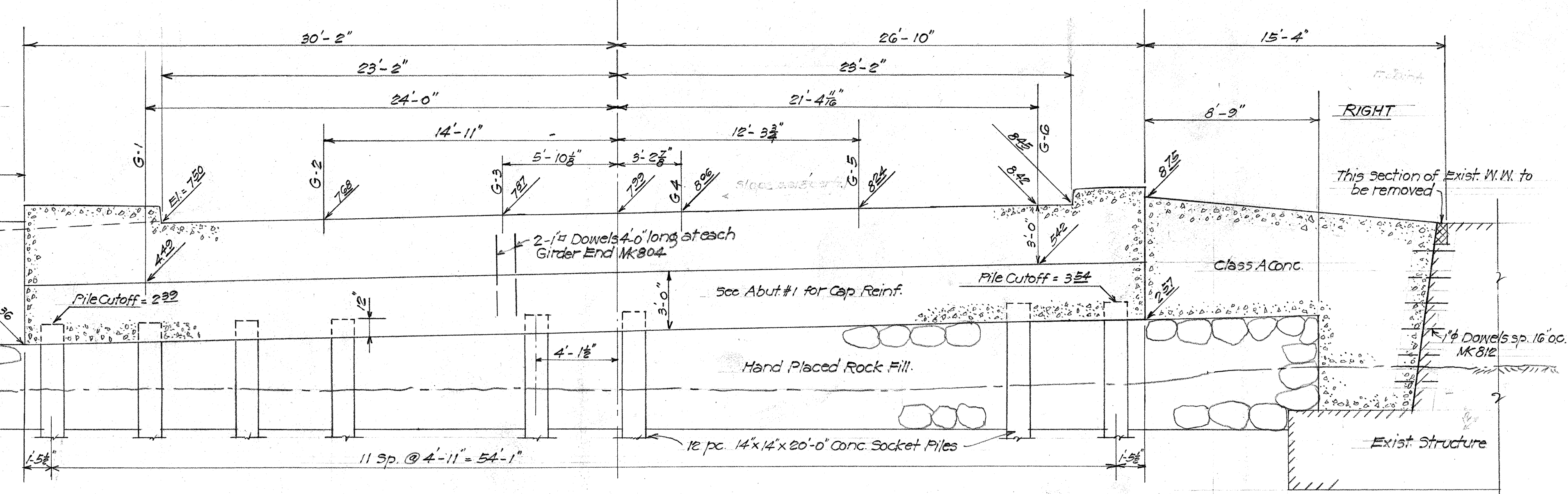
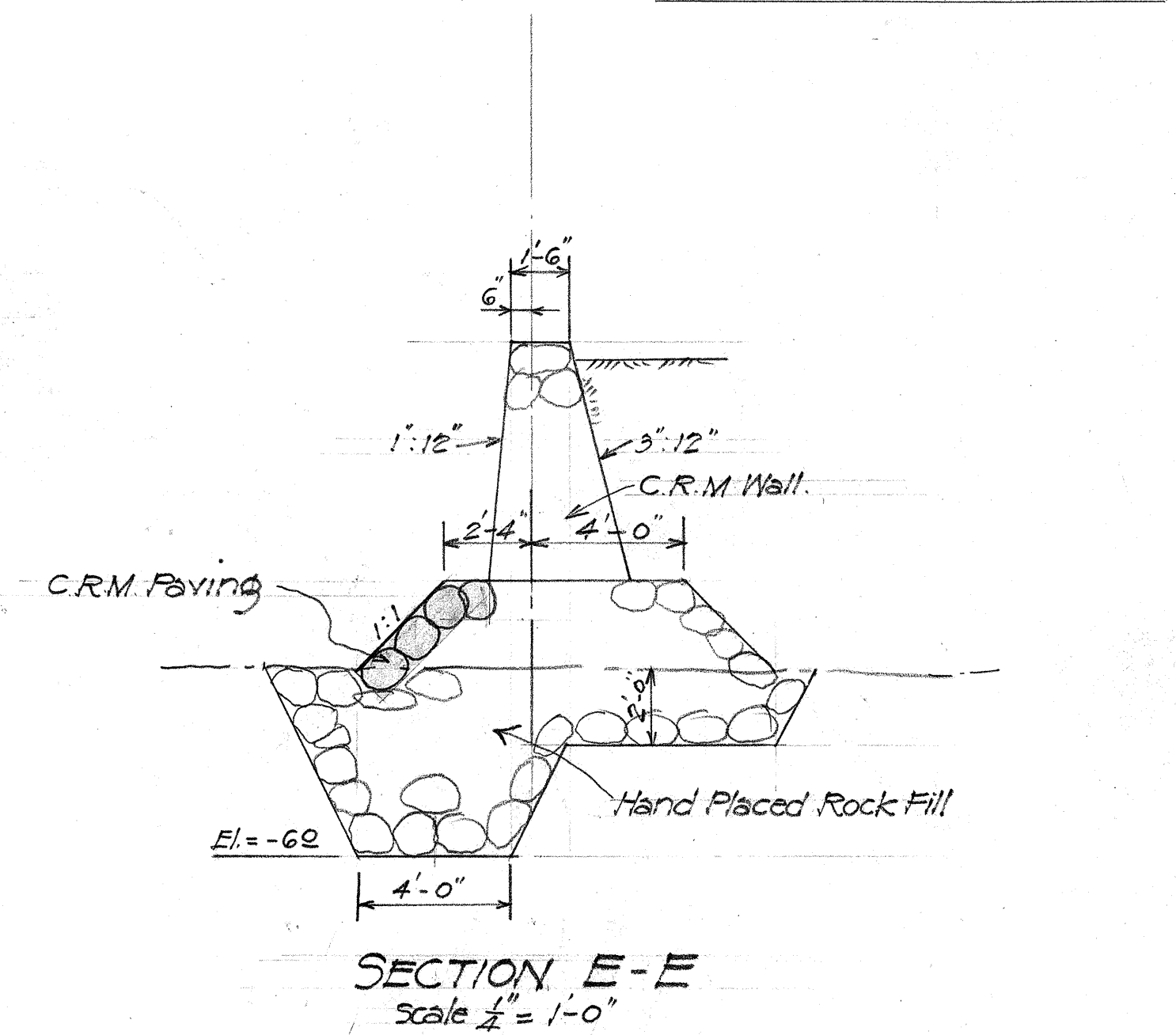
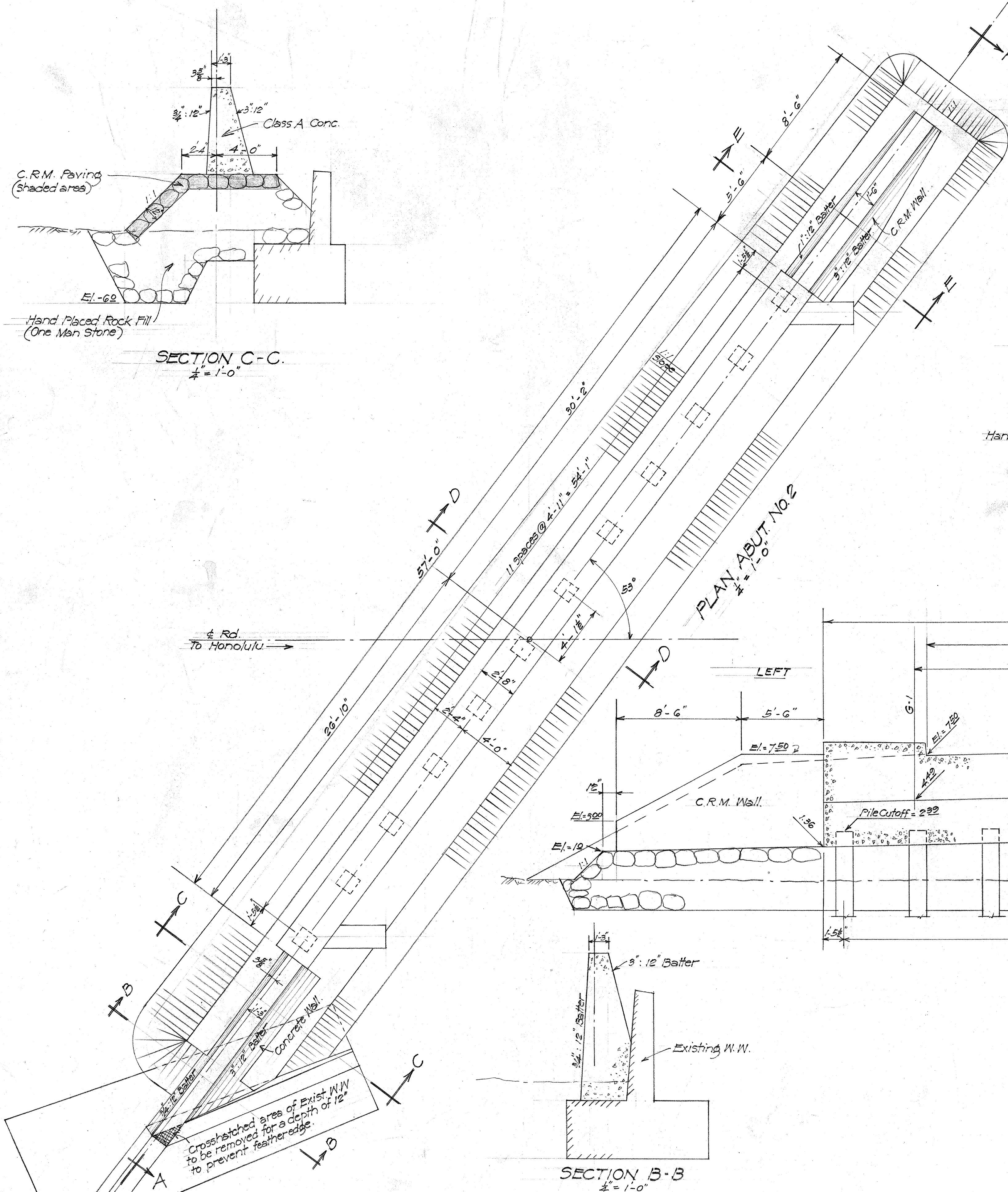


Note: Deck Elev. are concrete elevations

SURVEY PLOTTED BY	DATE
DESIGNED BY	1/6/1943
DRAWN BY	1/6/1943
CHECKED BY	1/6/1943
NOTED BY	1/6/1943
NO.	

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
BRIDGE NO. 1
KAM. HY. SNFAP 96(2)
578.197+96.23 - 198+95.23
APR 1943

ORIGINAL PLAN	SURVEY PLOTTED BY DESIGNED BY DRAWN BY	DATE
	<i>Barlett's</i>	<i>Mar 1943</i>
	<i>P. Yamashita</i>	"
NOTE BOOK	TRACED BY	"
	<i>O. Yanagihara</i>	<i>Apr 1943</i>
	QUANTITIES CHECKED BY	"
	<i>P. Yamashita</i>	"
No.	CHECKED BY	"
	<i>M. K. Barlett</i>	"



ABUT NO 2 SECTION A-A
scale $\frac{1}{4}'' = 1'-0''$

NOTE! Deck Elev. are concrete elevations.

SHEET No 9 OF 9 SHEETS

5111.18