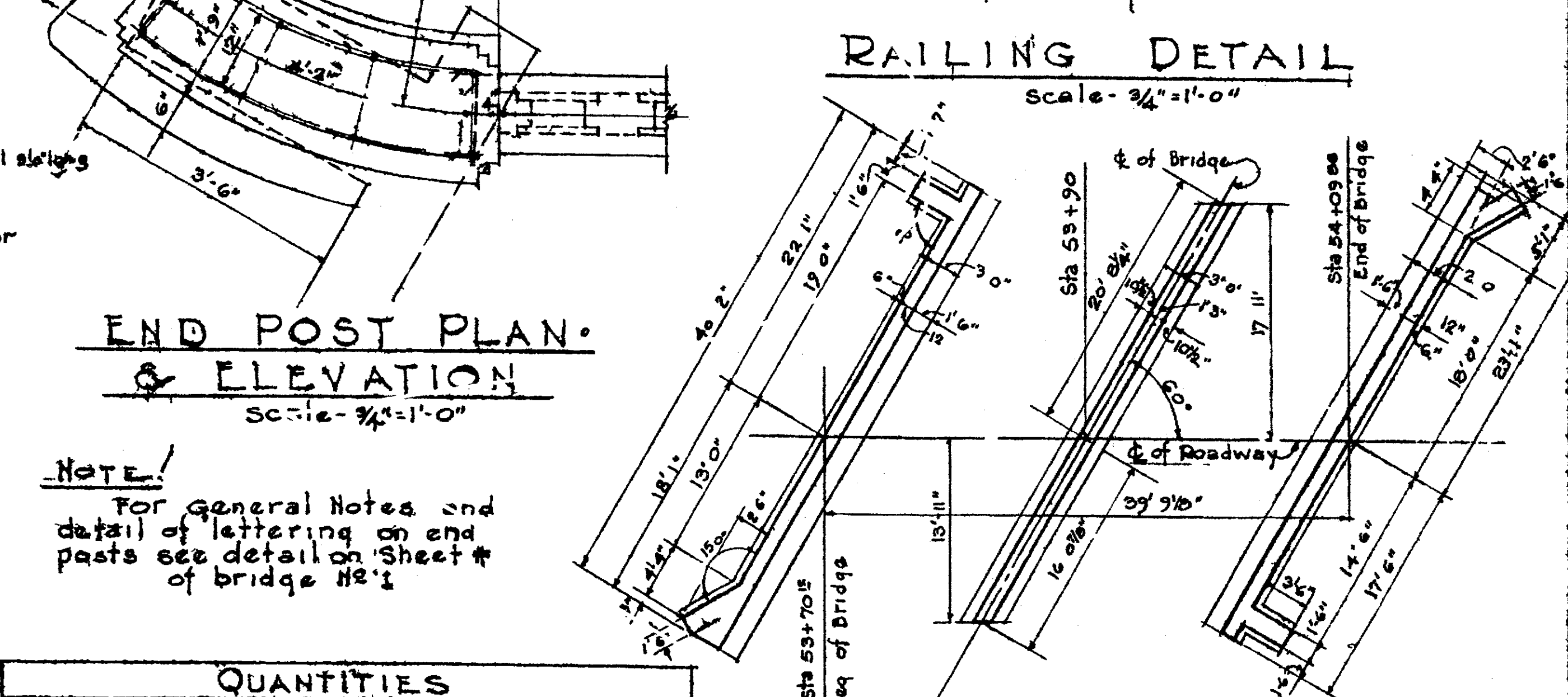
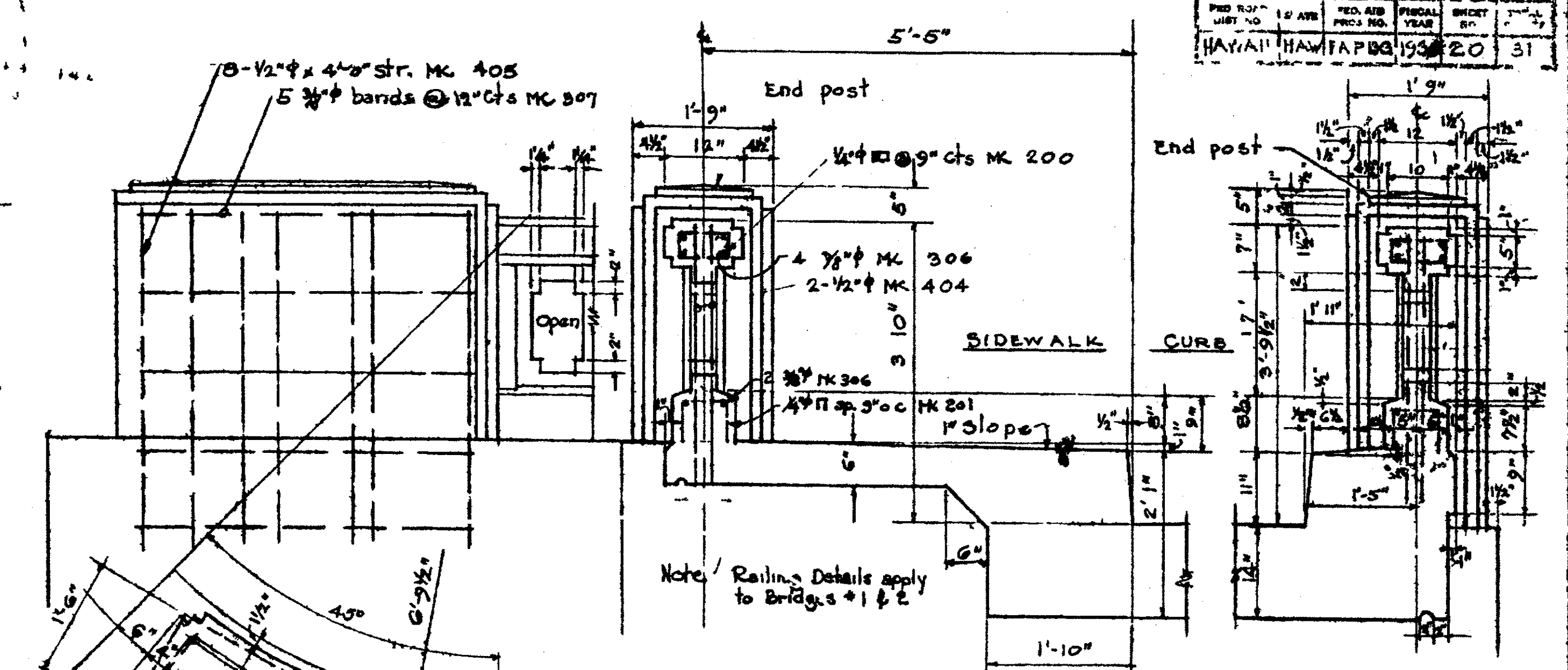
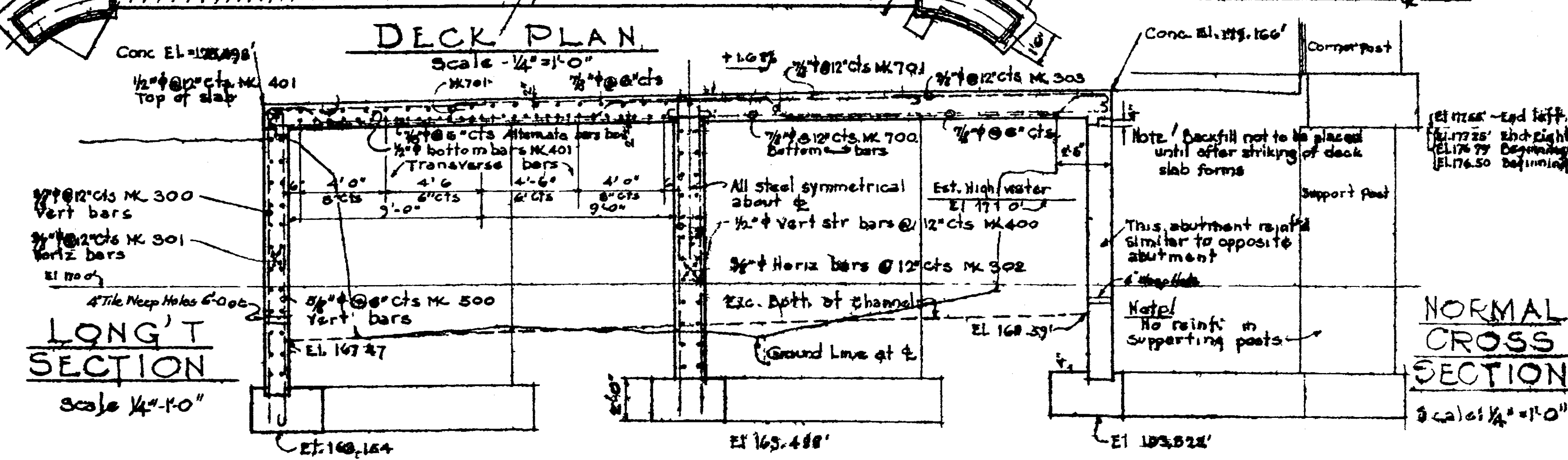
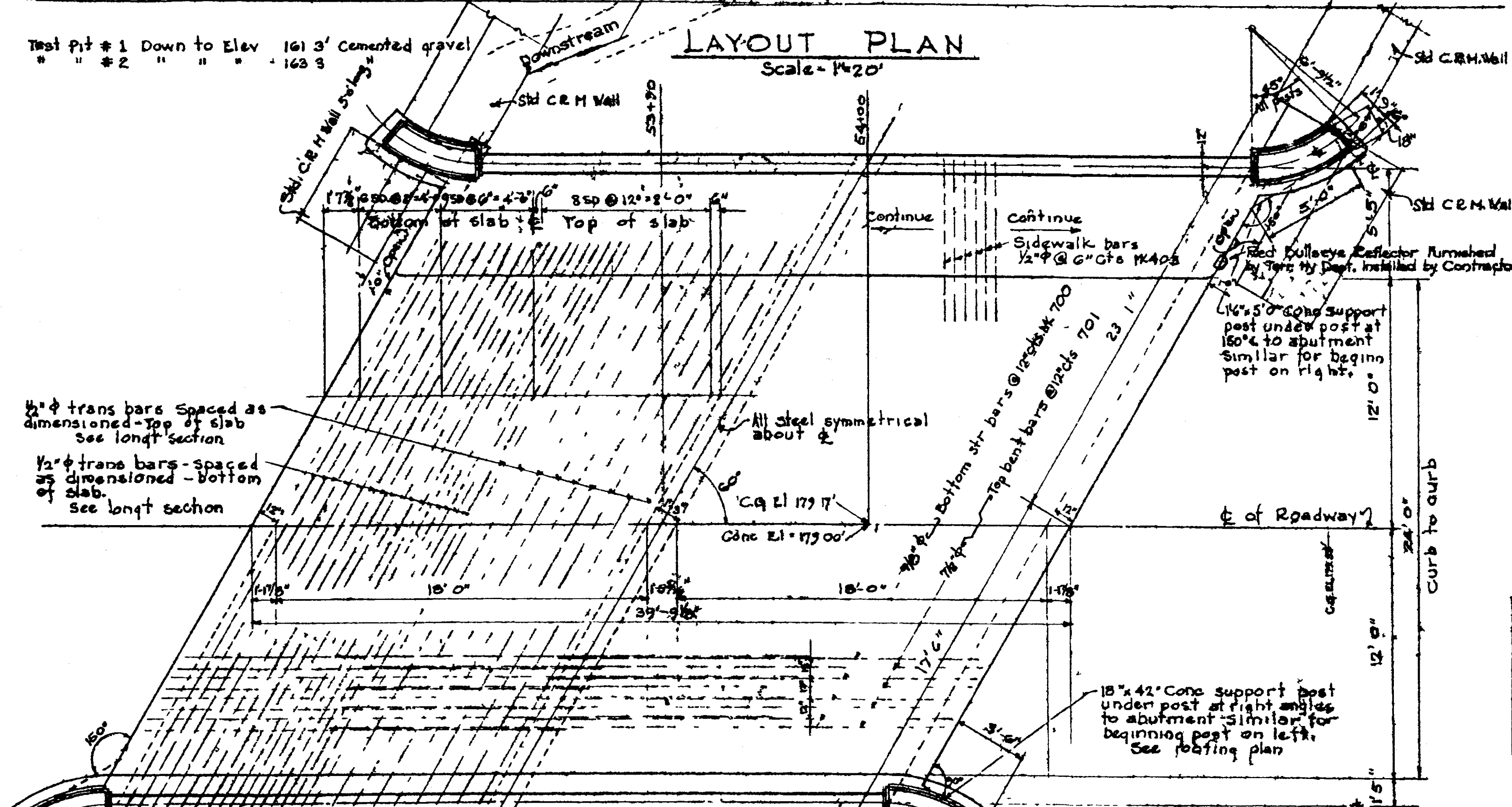
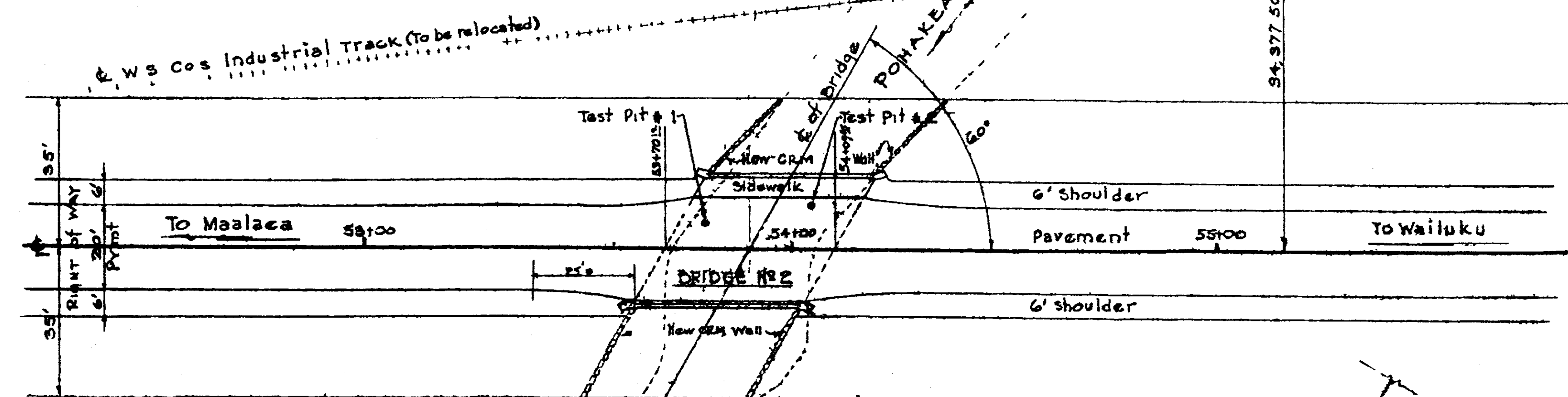
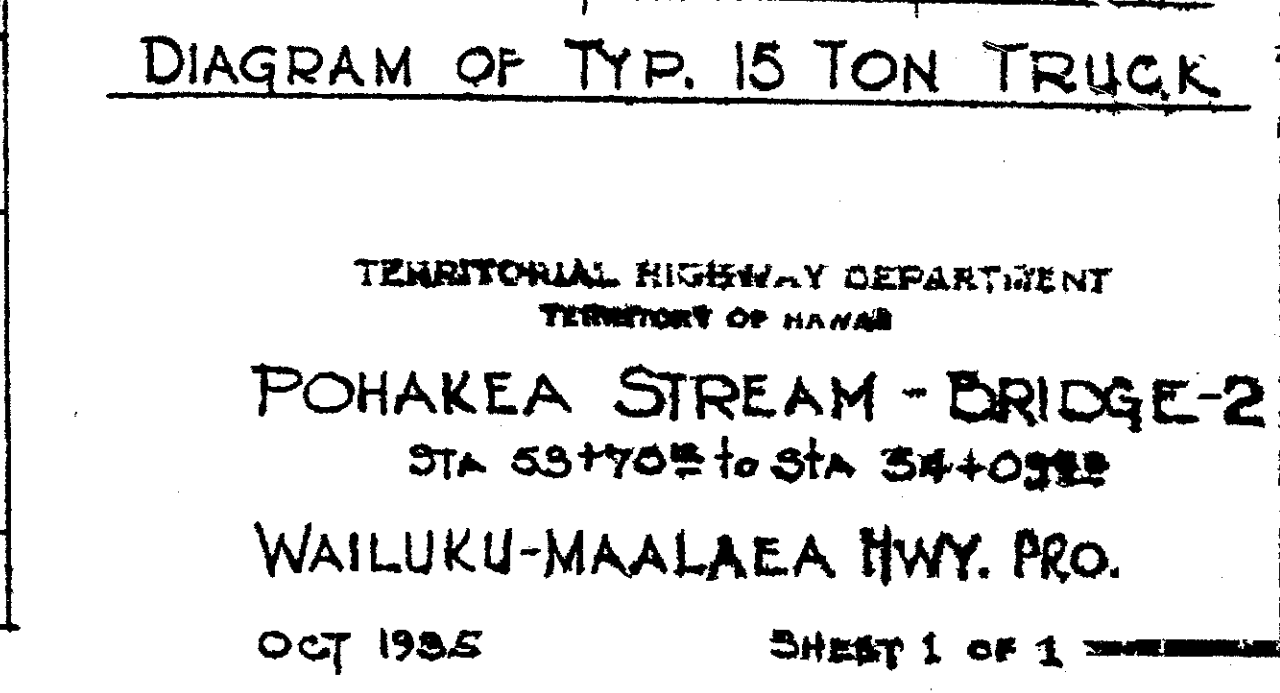
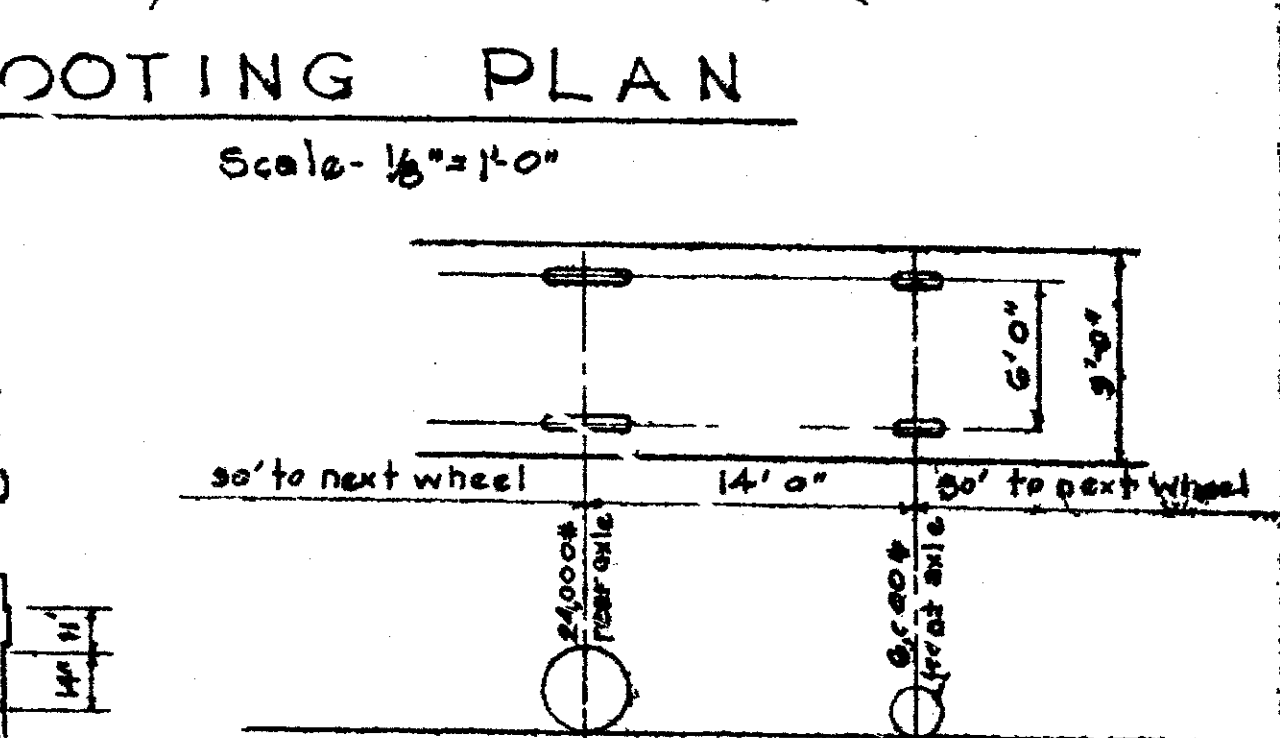
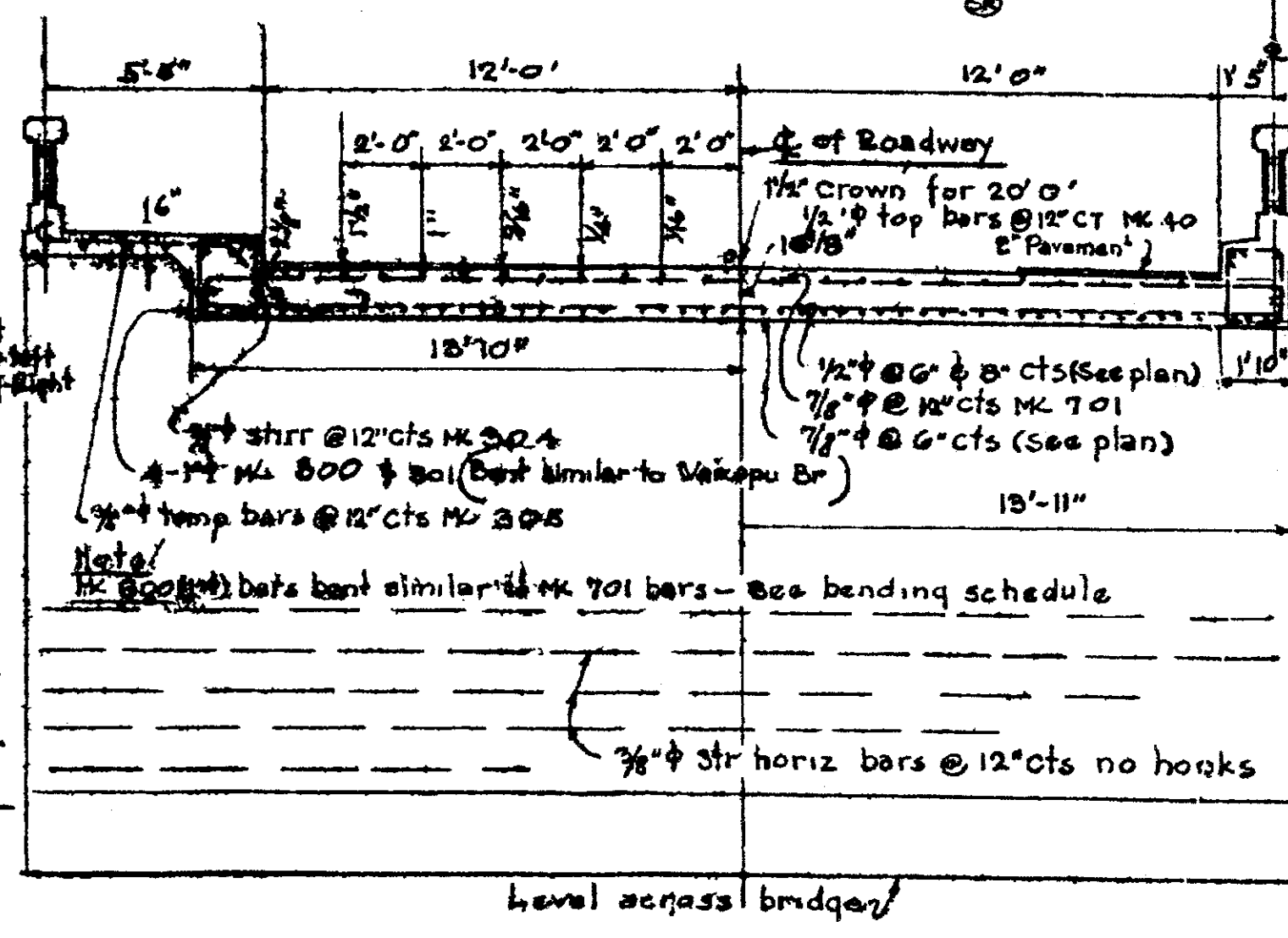


True N 0° 0' 0" E
Scale 1" = 20'

PROJ. NO. 10
SHEET NO. 20
DATE 10/1/35
DRAWN BY
CHECKED BY

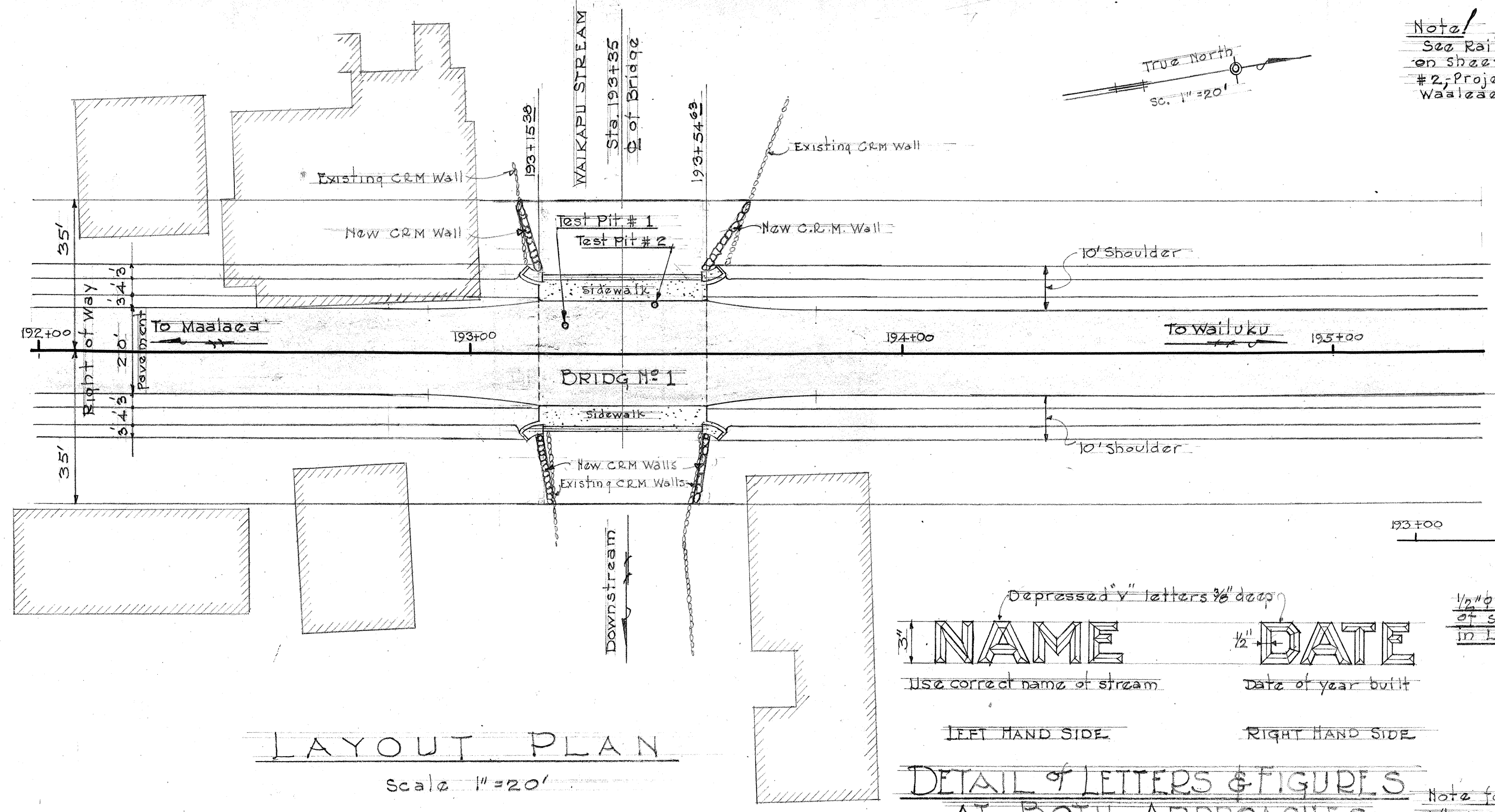


LOCATION	Qty	Unit	Exc.	Struc.	Exc.	C.R.M.	Conc.	Steel
Footings							20.0	0.0
Riser Walls							68.0	4,657.0
Superstructure							66.3	9,856.0
RAILING							8.4	608.0
TOTAL	92.4	CY	128.0	CY	50.0	CY	162.7	15,121.0



TERRITORIAL HIGHWAY DEPARTMENT
Territory of Hawaii
POHAKEA STREAM - BRIDGE-2
Sta 53+00 to Sta 54+00
WAILUKU-MAALAEA HWY. PRO.
OCT 1935 SHEET 1 OF 1

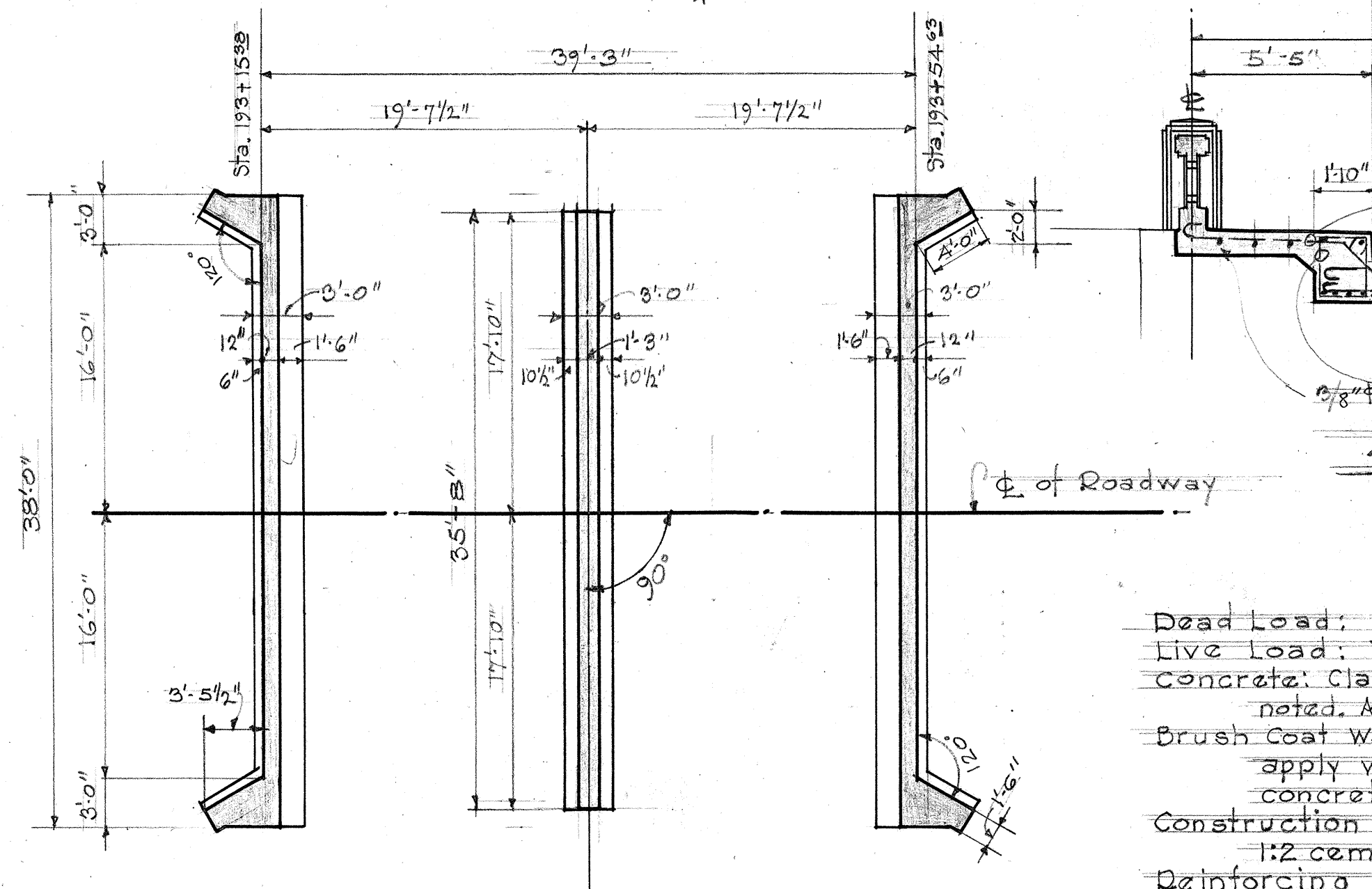
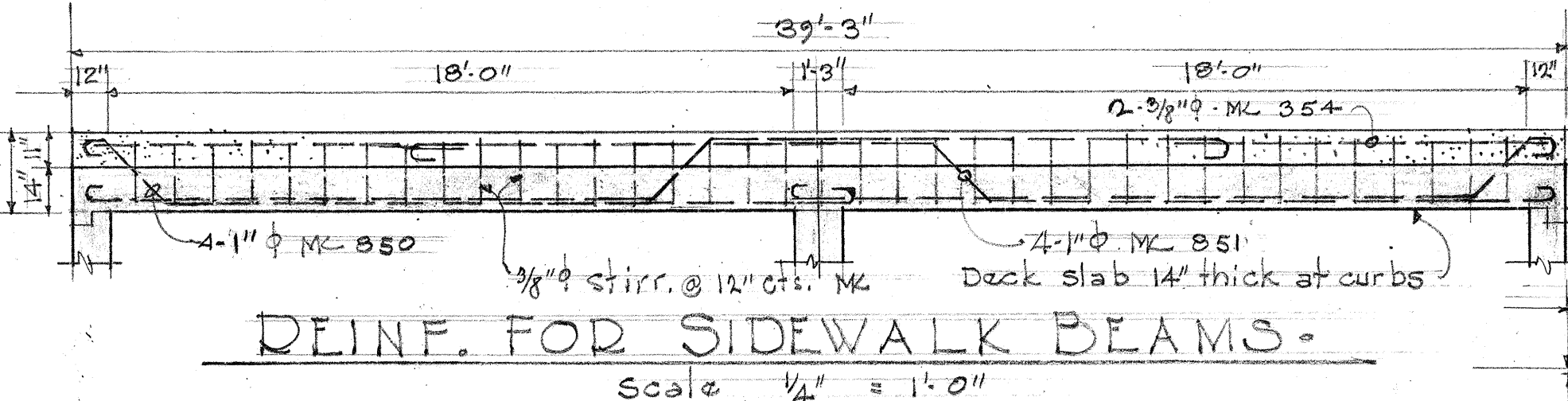
Note:
See Railing & Post details on sheet No. 1 of Bridge #2, Project 13-E-Wailuku-Wailuku Hwy.



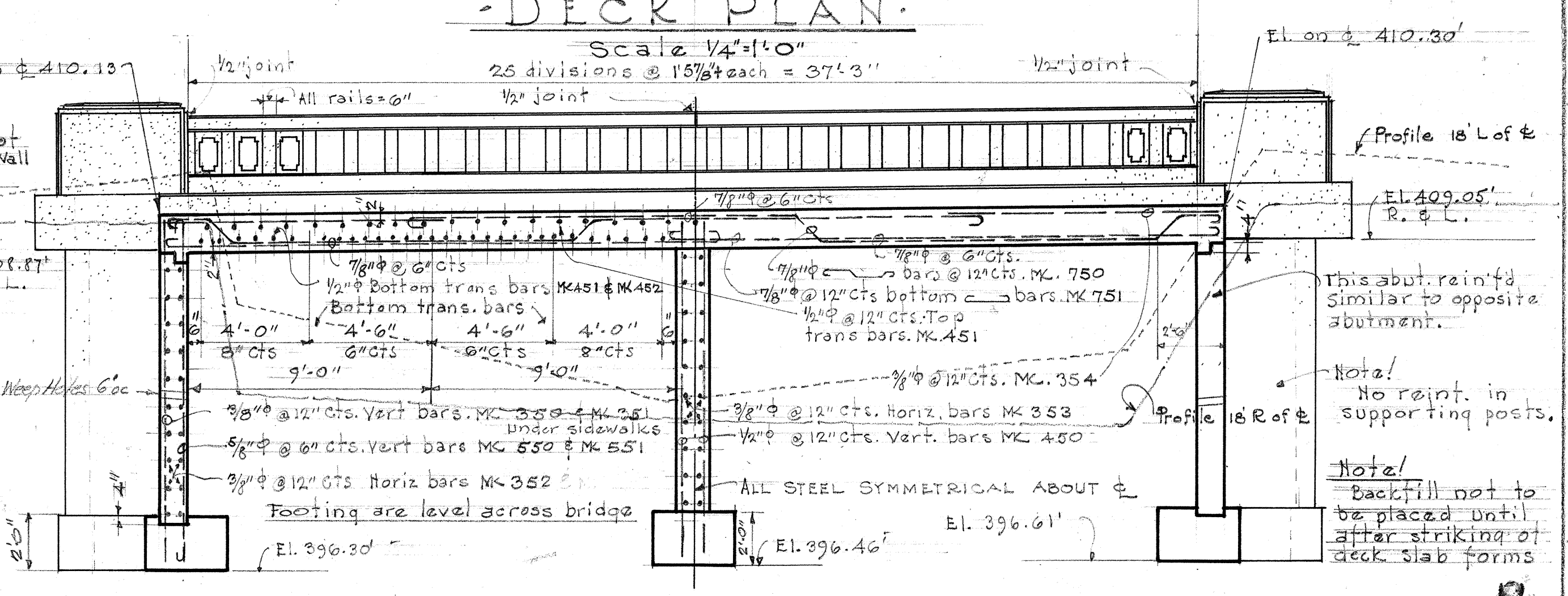
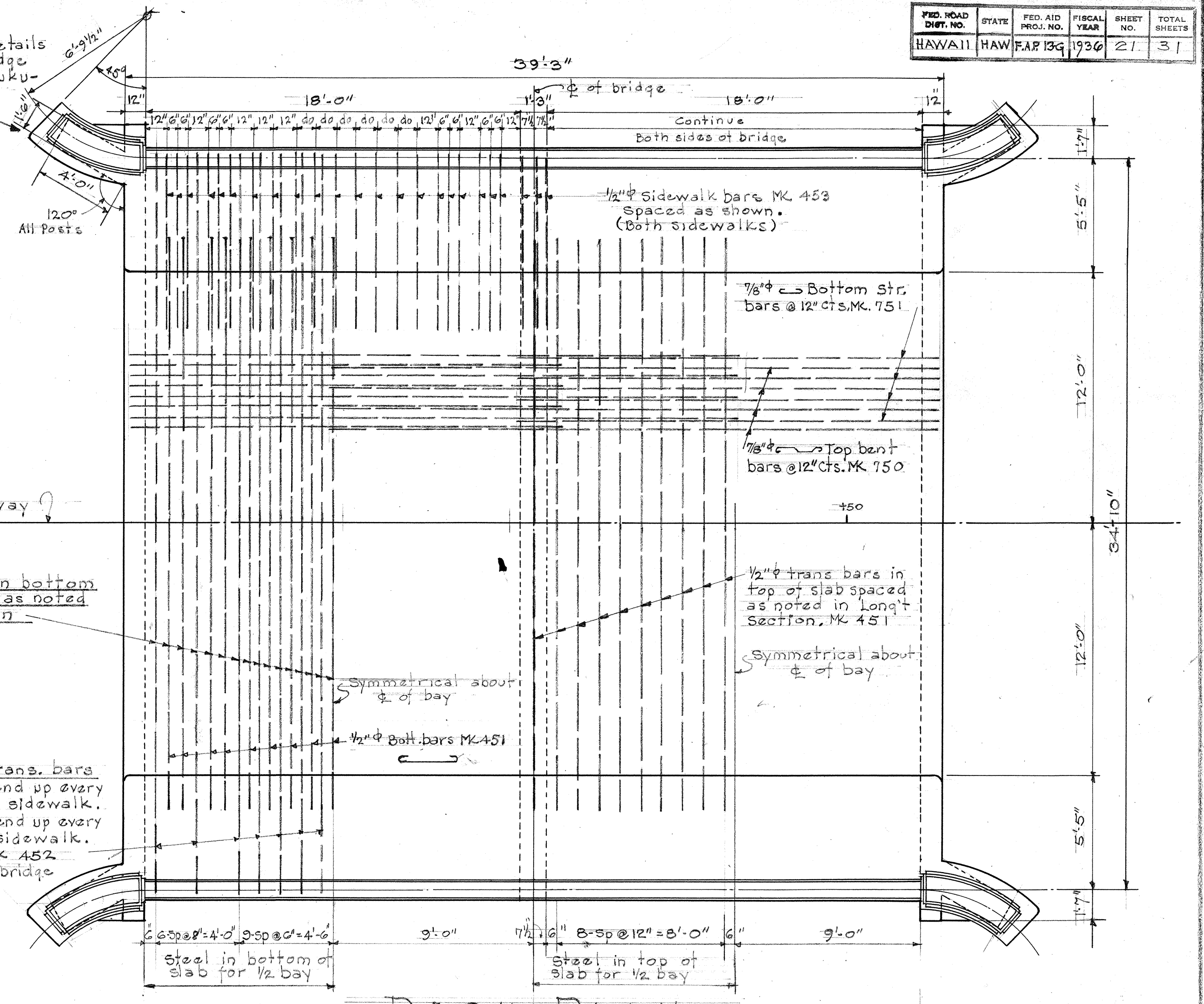
NAME **DATE**
Use correct name of stream Date of year built
LEFT HAND SIDE RIGHT HAND SIDE

DETAIL OF LETTERS & FIGURES AT BOTH APPROACHES
Note:
Name of stream to be placed in left end post panels & date in right end post panels on entering bridge, using standard block letters 3" high.

1/2" trans. bars in bottom of slab spaced as noted in Longt Section
Note for bottom trans. bars: Where sp. @ 6' cts bend up every other bar into sidewalk. Where sp. @ 8' cts bend up every 3rd bar into sidewalk. Above bars all MK 452 both sides of bridge.



GENERAL NOTES
Dead Load: Concrete 150# per cubic foot.
Live Load: Train of 15 ton trucks in 2 traffic lanes. Impact allowance = 25%
Concrete: Class 'A' (1:2:4) with all exposed edges chamfered 3/4" unless otherwise noted. Allowable compression 650# per square inch.
Brush Coat Waterproofing: Remove all projections, cement film, dirt, etc. and apply waterproofing as specified. Waterproofing is incidental to the concrete used, and will not be paid for separately.
Construction Joints: All construction joints to have surface roughened and 1:2 cement grout applied immediately before second pour.
Reinforcing Steel: Intermediate grade; allowable tensile stress 18,000# per square inch. All steel to be round or square deformed bars of approved design. All dimensions relating to reinforcement are to centers of bars unless otherwise noted. Where splicing of reinforcement is necessary bars are to be lapped to diameters and splices are to be staggered. No allowance will be made in the quantities for extra weight of steel required for splicing. Unless otherwise noted the minimum covering measured from the surface of concrete to the face of any steel shall be not less than 2 1/2" in abutments and abutment footings, and 2" in slab. Steel to be held rigidly and accurately in place before and during placing of concrete.



Note:
For typical truck diagram see sheet # 1 of bridge #2-F.A.P. 13-E

QUANTITIES				
Location	Chan. Exc	Struct. Exc.	C.R.M.	Reinf. Steel
Footings				25.3 CY.
Pier Walls				54.0 3,696.0 lbs
Superstructure				68.6 9,842.0
Railing				8.5 644.0
Total	675.0 CY.	70.0 CY.	87 CY.	156.4 CY. 14,182.0 lbs

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
WAIKAPU BRIDGE
Sta. 193+15.33 to Sta. 193+54.33
WAILUKU-MAALAEA HWY. F.A.P. 13-G
Oct. 1935 SHEET 21 OF 31 SHEETS

STEEL SCHEDULE.

PROB. NAME DIST. NO.	STATE	PROB. AND PROG. NO.	FISCAL YEAR	BIBBY NO.	TOTAL SHEETS
HAWAII	HAW	13 G	1956	21 A	81

WAIKAPU BRIDGE NO 1.

POHAKLA BRIDGE № 2.

PK	DESCRIPTION	LOCATION	SIZE	LENGTH	WT of bars each unit	WT of bars each unit	Total Length	WT per foot	Total Weight
350		Abutments	5"	12'-6"	24	2	48	600.0	235
351		"	"	13'-3"	14	2	28	371.0	141
352		"	"	37'-6"	20	2	40	1500.0	570
353		Center Wall	"	35'-3"	20	1	20	705.0	265
450		"	1/2"	12'-6"	36	2	72	900.0	612.0
550		Abutments	5"	13'-9"	47	2	94	1299.50	106
551		"	"	14'-9"	26	2	52	767.0	513
750		Slab	5"	32'-9"	47	1	47	1599.25	207
751		"	"	22'-6"	49	1	49	1102.50	228.2
354		Sidewalk Beam	3/8"	10'-0"	47	1	47	550.0	209
451		Slab	1/2"	25'-3"	37	1	37	2005.35	265
452		"	"	37'-6"	28	1	28	1050.0	714
453		Sidewalk	"	9'-6"	45	2	90	855.0	581
345		Sidewalk Beam	3/8"	7'-0"	37	2	74	515.0	197
356		Sidewalk	"	36'-9"	3	2	6	232.50	88
352		Sidewalk Beam	1"	23'-6"	8	1	8	180.0	506
351		"	"	33'-0"	8	1	8	264.0	713
454		Railing	1/2"	3'-3"	2	52	104	358.0	230
250		"	1/4"	2'-6"	52	2	104	260.0	44
357		"	3/8"	36'-9"	6	2	12	441.0	168
353		End Posts	"	11'-0"	5	4	20	220.0	84
455		"	1/2"	4'-0"	8	4	32	128.0	37
251		Railing	1/4"	1'-9"	52	2	104	182.0	31
							Total		14,482.0

PK	DESCRIPTION	LOCATION	SIZE	LENGTH	No of bars each of unit	No of units	Total No of bars	Total Length	Wt per foot	Total Weight
300		Abuts 1 & 2	3/8"	14'9"	40	2	80	1180.0	0.38	448
301		Abut #1	"	39'9"	12	2	24	906.0	"	344
301A		Abut #2	"	40'0"	12	2	24	960.0	"	365
302		Center Pier	"	36'3"	24	1	24	810.0	"	331
400		"	1/2"	14'9"	74	1	74	1091.50	0.68	1412
500		Abut #1 Abut #2	3/8"	16'3"	80 81	1 1	161	2516.25	1.06	2773
700		Slab	3/8"	22'6"	50	1	50	1125.0	2.07	2329
701		"	"	32'9"	48	1	48	1572.0	"	3254
303		"	3/8"	10'0"	48	1	48	480.0	0.38	182
800		Sidewalk Beam	1"	33'0"	8	1	8	264.0	2.70	713
801		"	"	23'9"	8	1	8	190.0	"	513
401		Slab	1/2"	32'3"	96	1	96	3160.50	0.68	2149
304		Sidewalk Beam	3/8"	7'0"	37	2	74	518.0	0.38	197
403		Sidewalk	1/2"	9'9"	70	1	70	682.50	0.68	464
305		"	3/8"	39'3"	3	1	3	117.75	0.38	45
404		Railing	1/2"	3'3"	52	2	104	338	0.38	230
800		"	1/2"	1'8"	51	2	102	255.0	0.17	43
801		"	"	1'9"	51	2	102	178.80	"	30
306		"	3/8"	39'0"	8	2	16	468.0	0.38	178
307		End Posts	"	11'0"	3	4	20	220.0	"	84
405		"	1/2"	4'0"	8	4	32	128.0	0.68	87
								Total		15,581

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

SHEET NO OF SHEETS

4365.21A