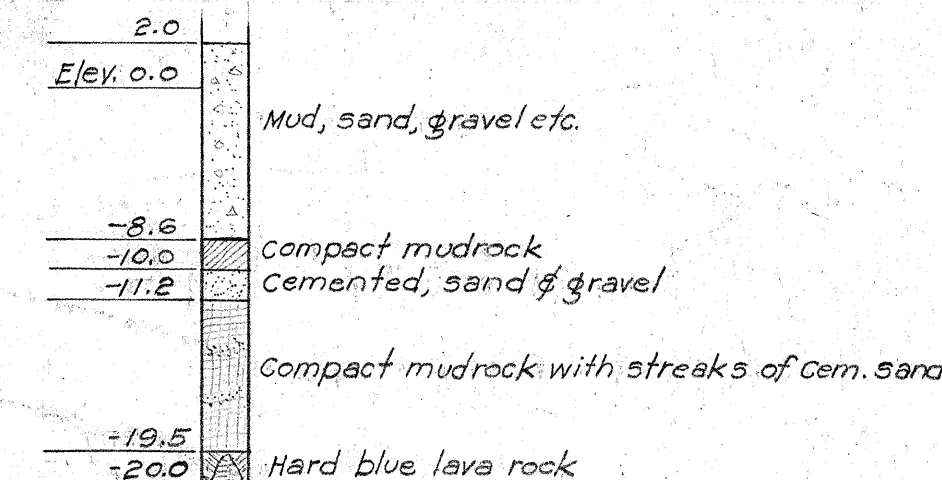
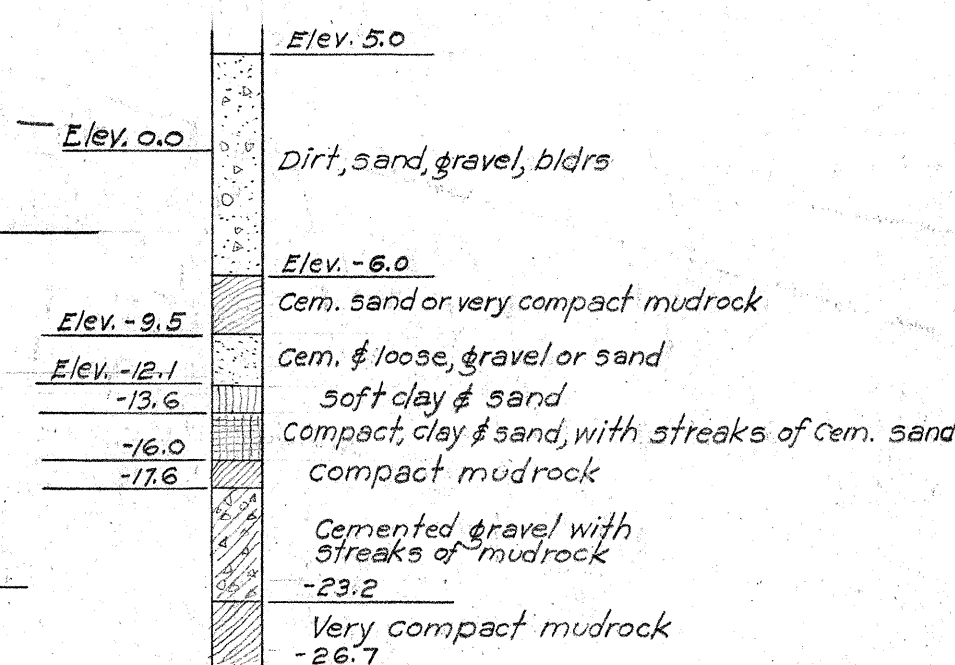


BORING DATA

"A"

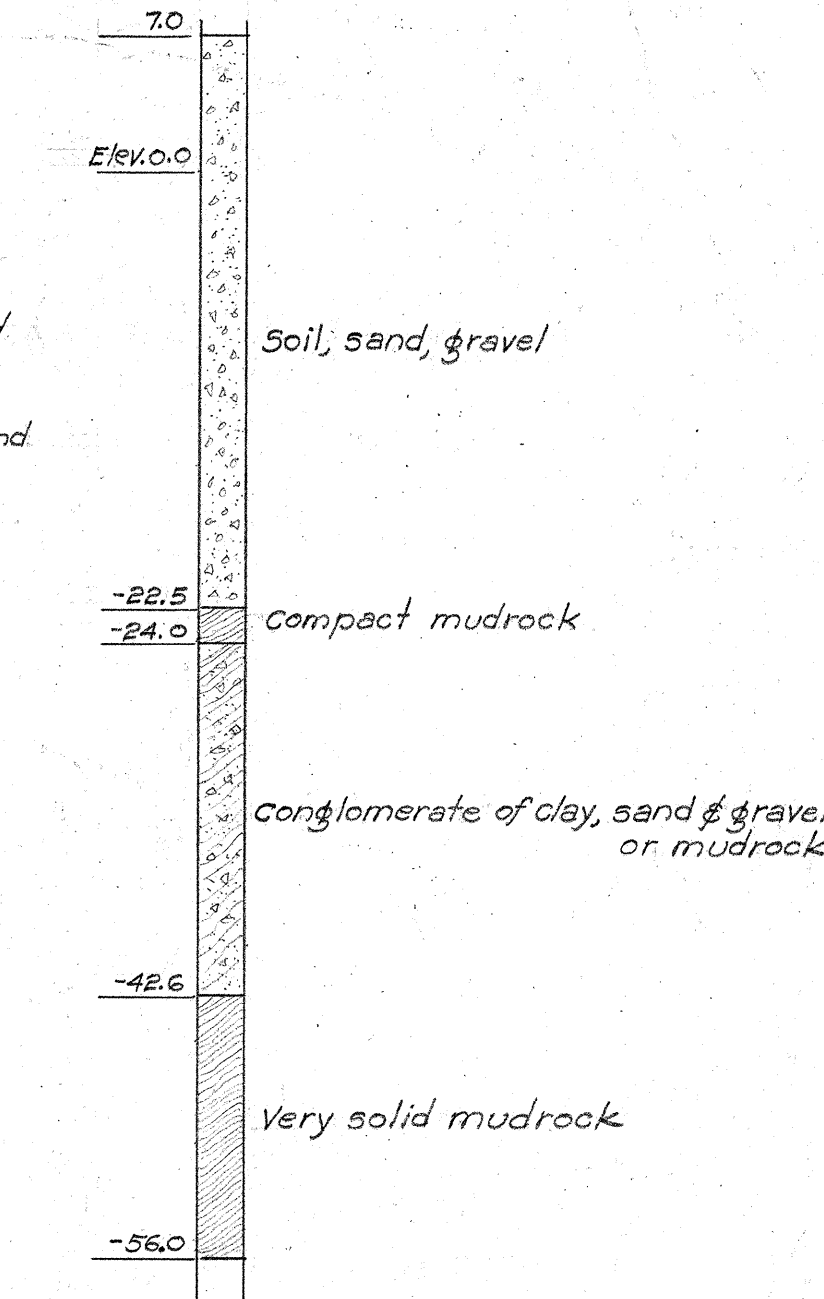
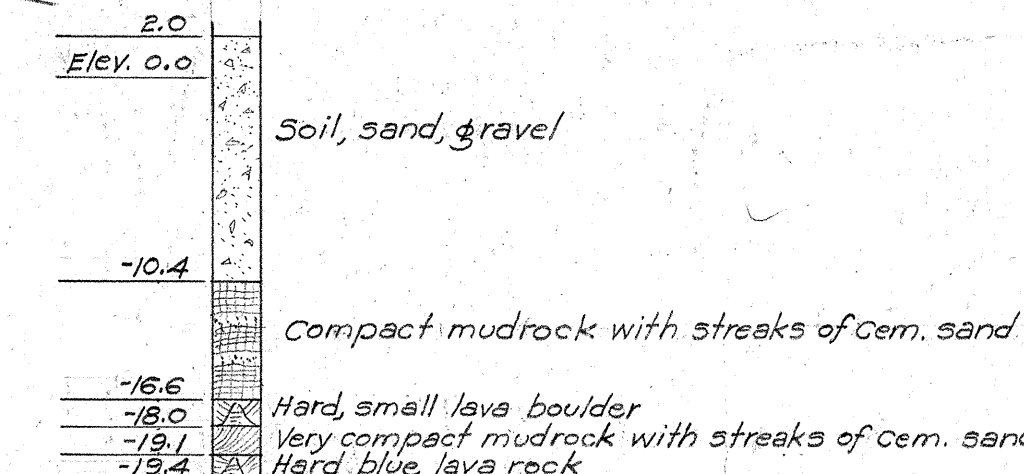
"B"



BORING DATA

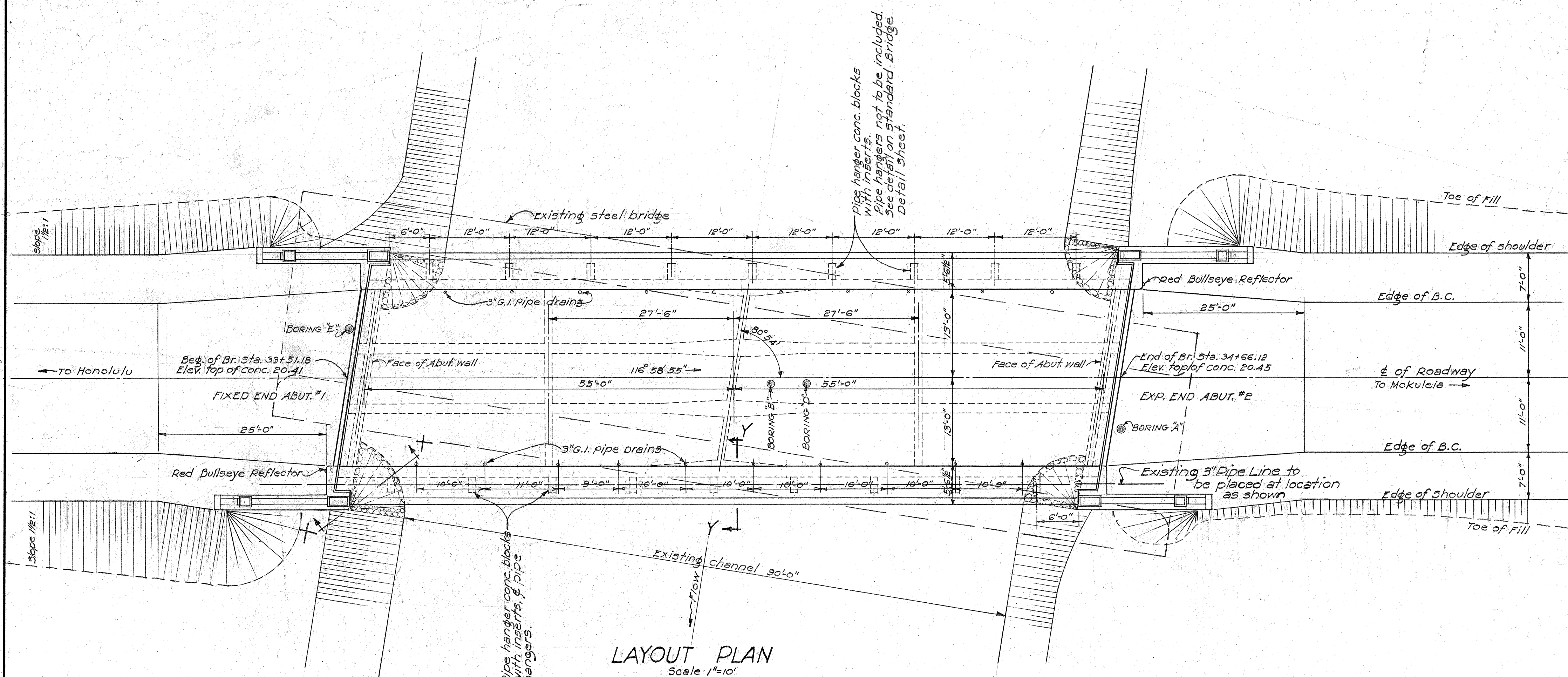
"D"

"E"



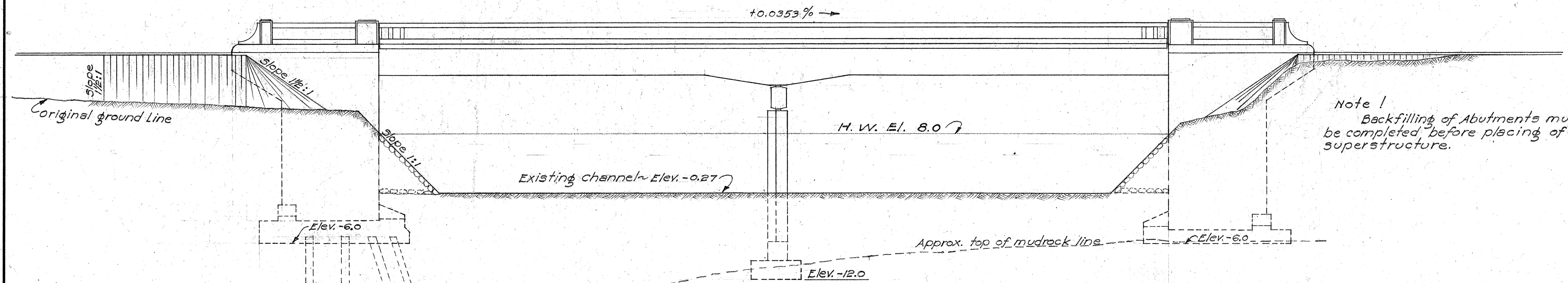
LAYOUT PLAN

Scale 1"=10'

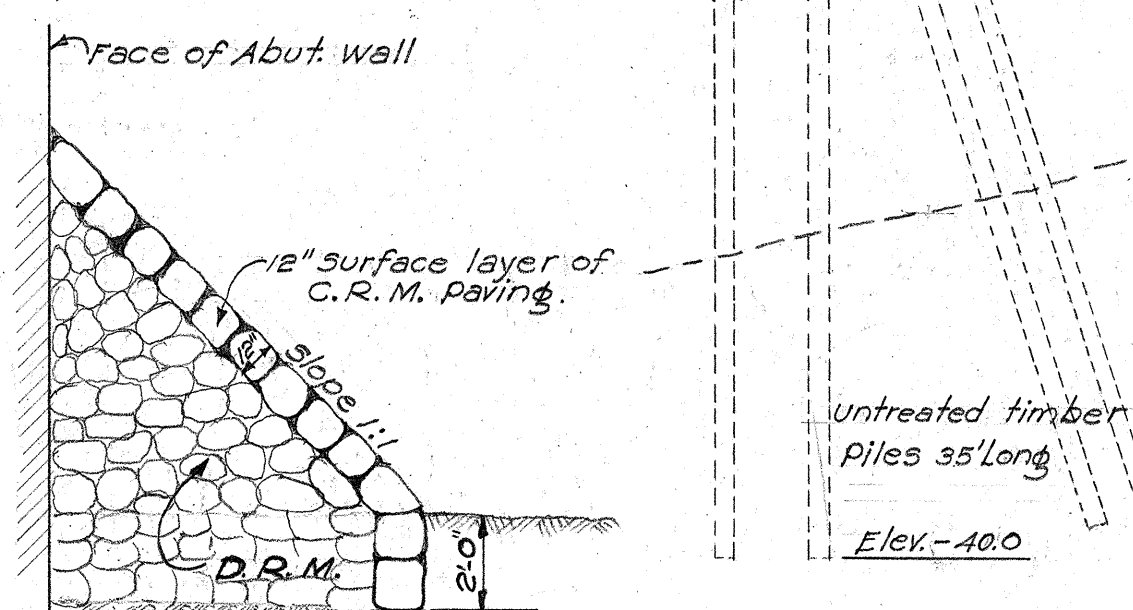


DOWNSTREAM ELEVATION

Scale 1"=10'

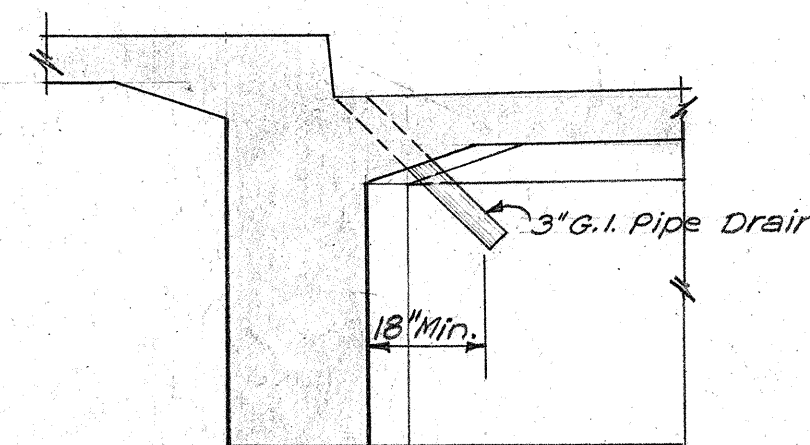


SEC. X-X



SEC. Y-Y

3/8" scale



ESTIMATED QUANTITIES

Location	Class "A" Conc. C.Y.	Reinf Steel lbs.	C.R.M. Paving C.Y.	D.R.M. Cu.Yds.	Str. Exc. Cu.Yds.	Untreated Timber Piles Lin. ft.
Superstructure	247.4	61,145				
Pier	50.0	5,618			164.0	
Abut and Wingwalls						
Abut 1	115.5	15,379			574.0	2205.0
Abut 2	121.8	16,527			589.0	
Footings						
Pier	25.9	886				
Abut & W.W.	141.2	10283				
Abut 1 & 2			12.5	13.2		
Total	701.8	109,838	12.5	13.2	1327.0	2205.0

Asphalt Concrete pavement 57.3 Tons.
Moving Existing Pipe Line 115 lin. ft.

TERRITORIAL HIGHWAY DEPARTMENT

TERRITORY OF HAWAII

KAUKONAHUA BRIDGE

No. 20

STA. 33+51.18 TO STA. 34+66.12

WAIALUA-KAENA PT RD F.A.P. 35 C (1)

DATE: DEC. 1938

SHEET No 1 OF 13 SHEETS

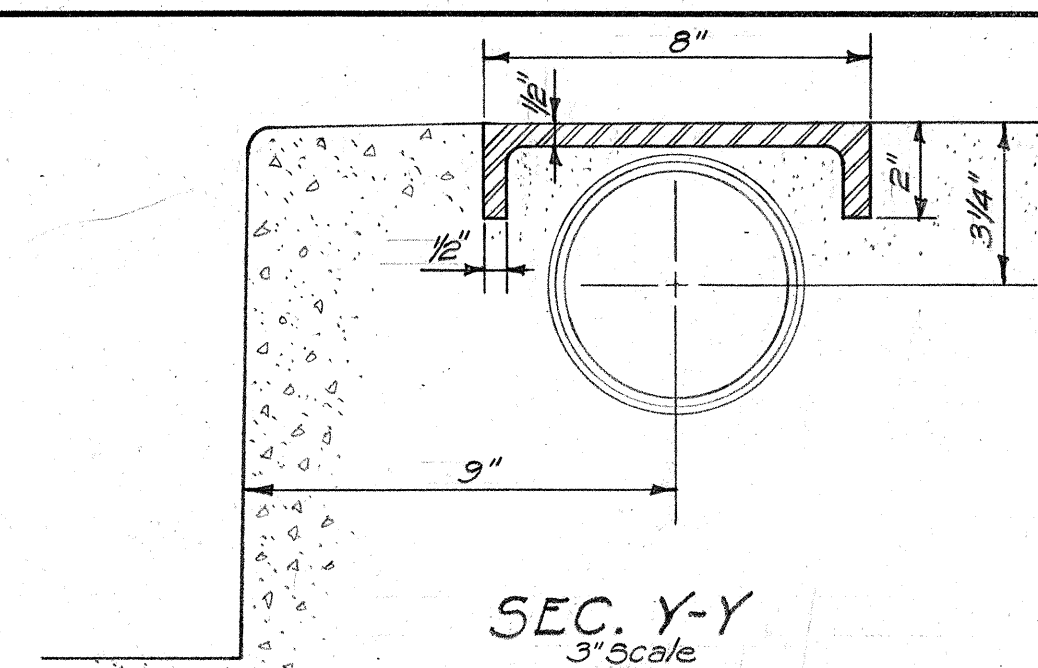
5002.4

5002.54

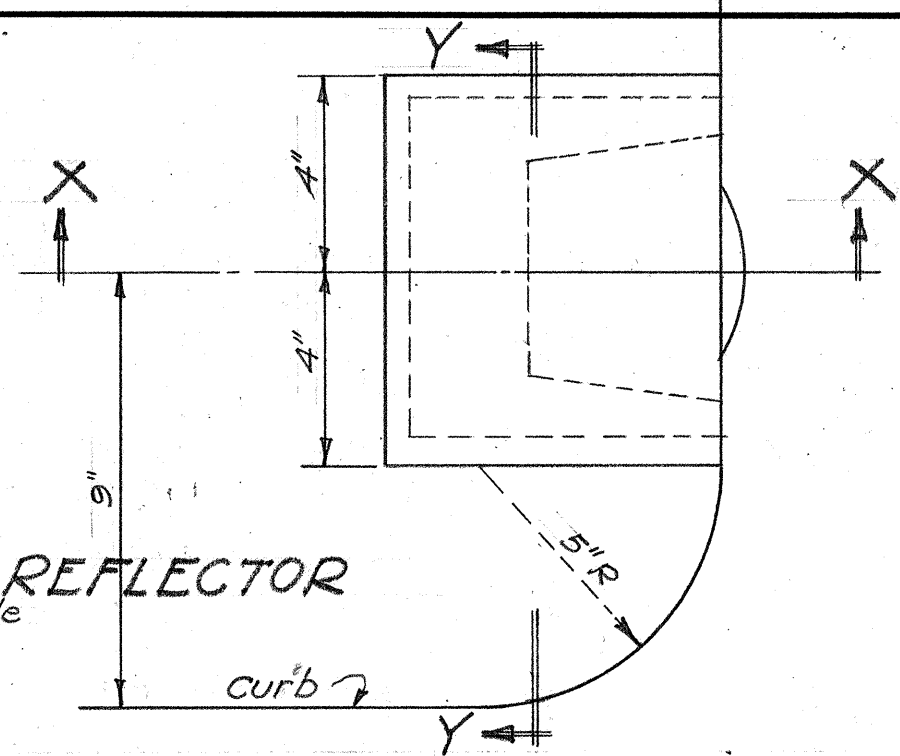
Revision: -
Dier conc. & steel added.
C.R.M. & D.R.M. added.

SURVEY PLOTTED BY	DATE
TRACED BY	
DRAWN BY	
QUANTITIES CHECKED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

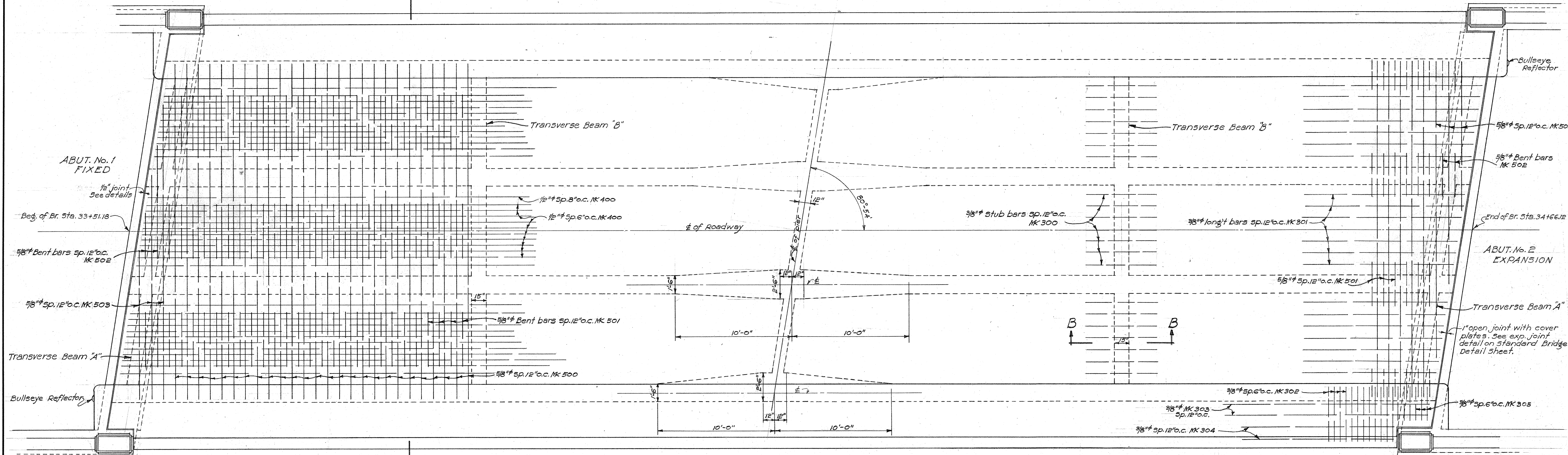
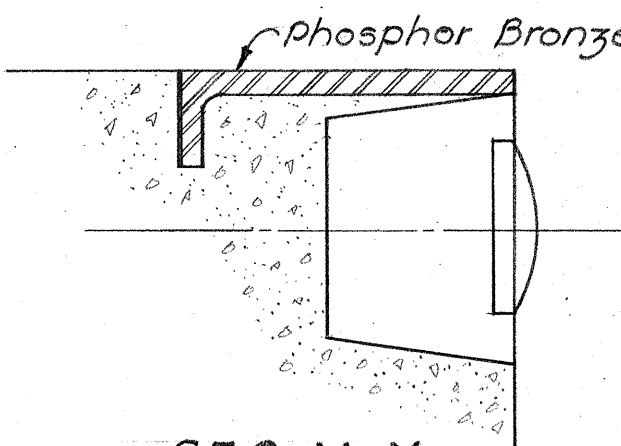
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	35-C(1)	1939	5	16



PLAN - BULLSEYE REFLECTOR
3/8" Scale



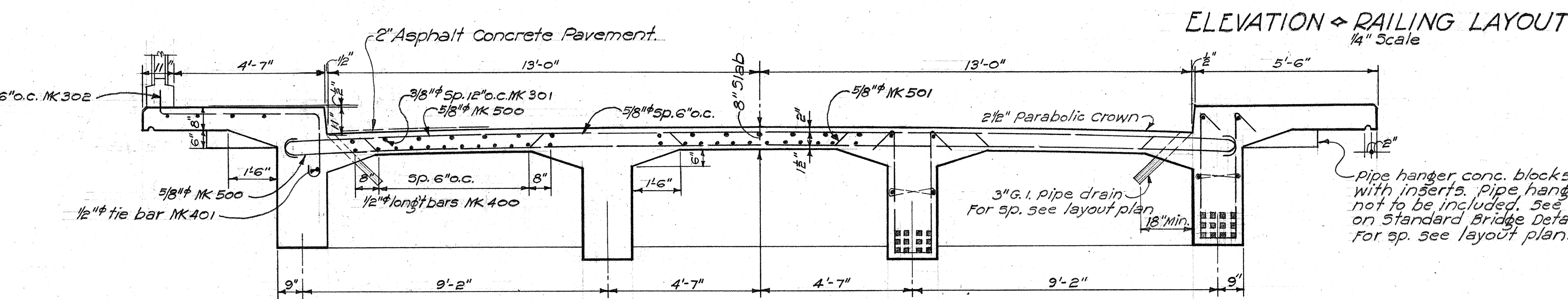
SEC. X-X
Note!
Bullseye reflector to be furnished by Terr. Highway Dept. and to be installed by the Contractor.
Phosphor bronze plates are incidental to Class A Concrete.



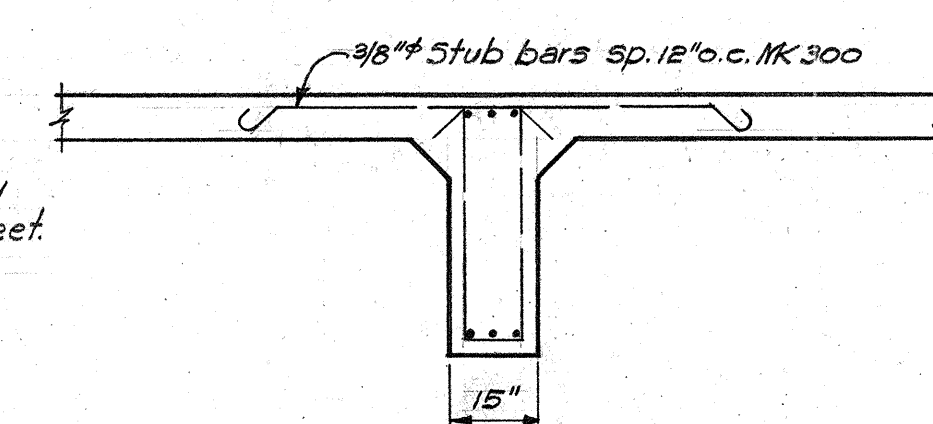
PART BOTTOM REINF.

DECK PLAN

PART TOP REINF.



Reinf. in railing not shown. For details see Standard Bridge Detail Sheet.



SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES CHECKED BY	
CHECKED BY	

SECTION A-A
3/8" Scale

NOTE!
Splicing of all long't bars MK 400 & MK 301 is required over transverse beams "B". Bars to be lapped 40 diameters. See Deck Plan for location of Transverse Beams "B".

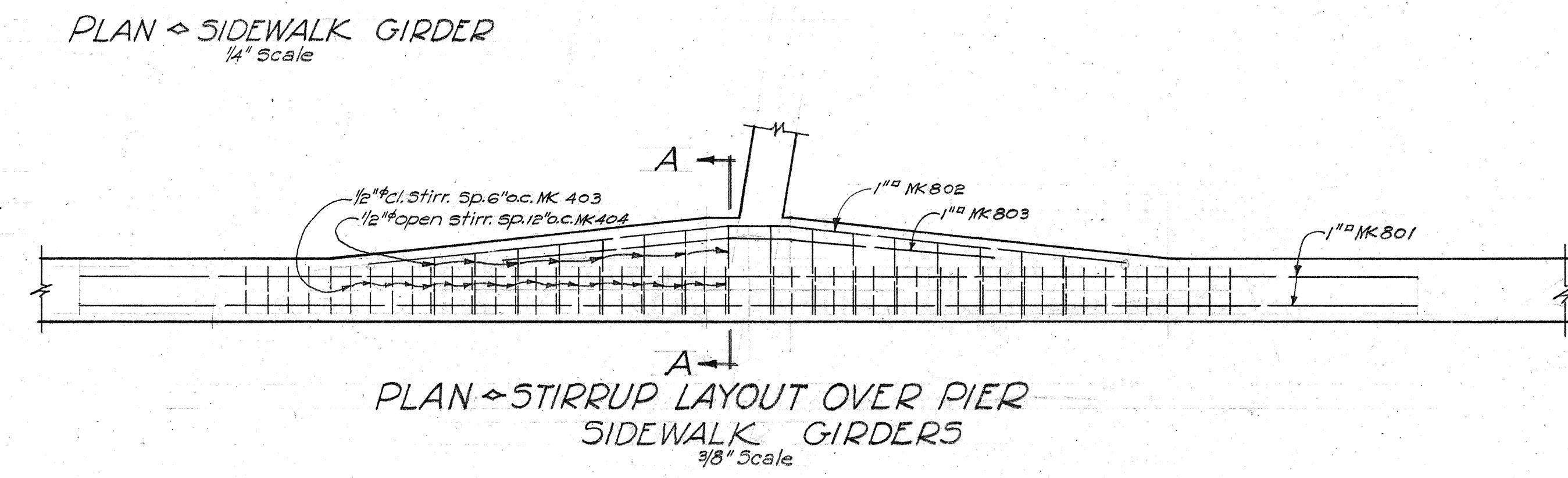
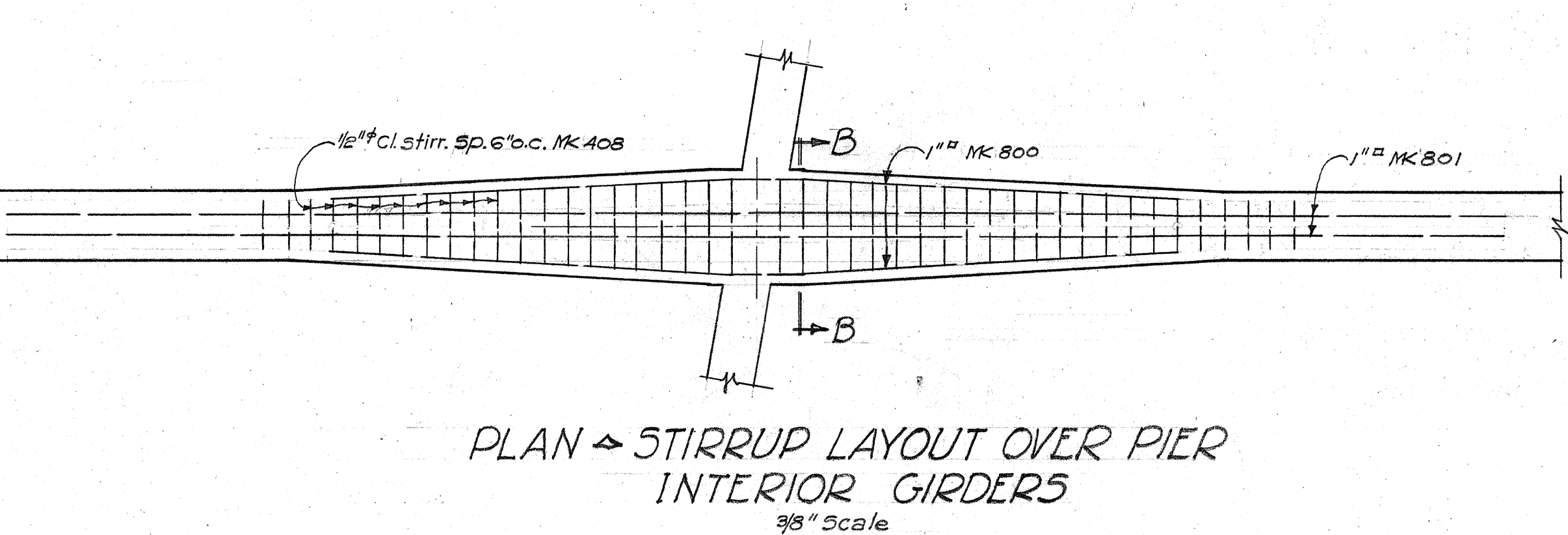
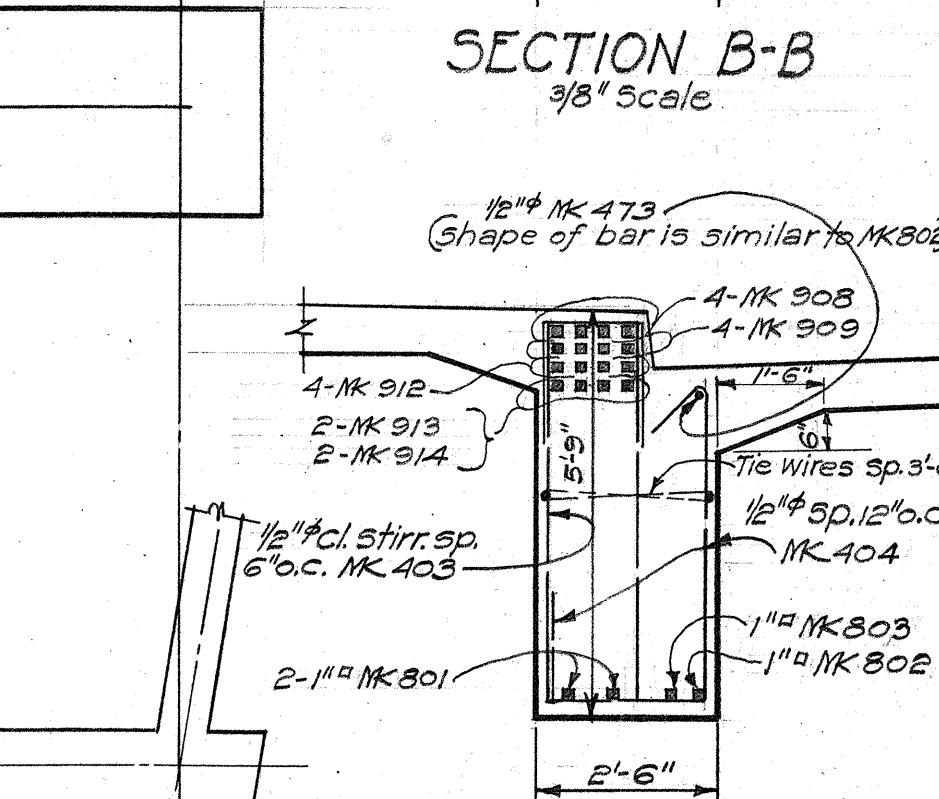
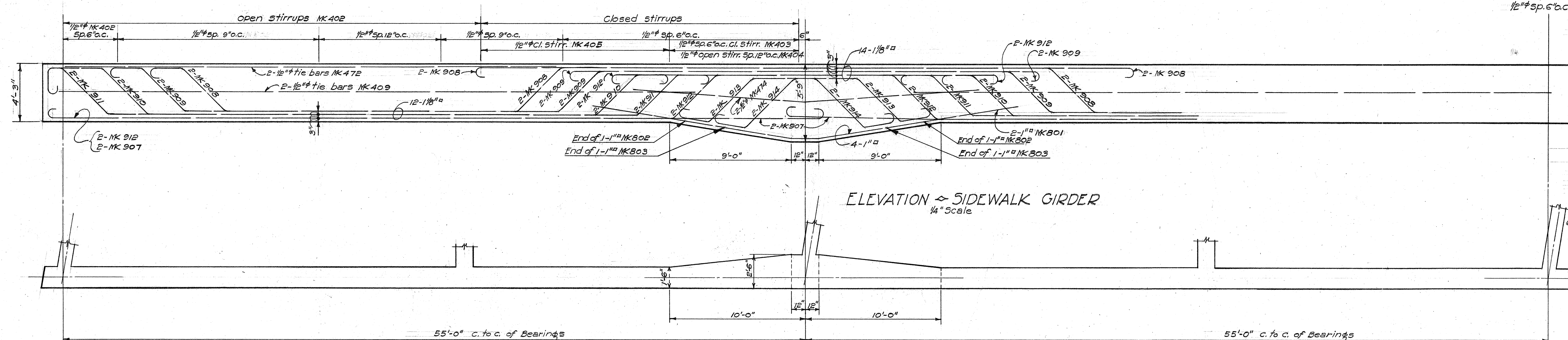
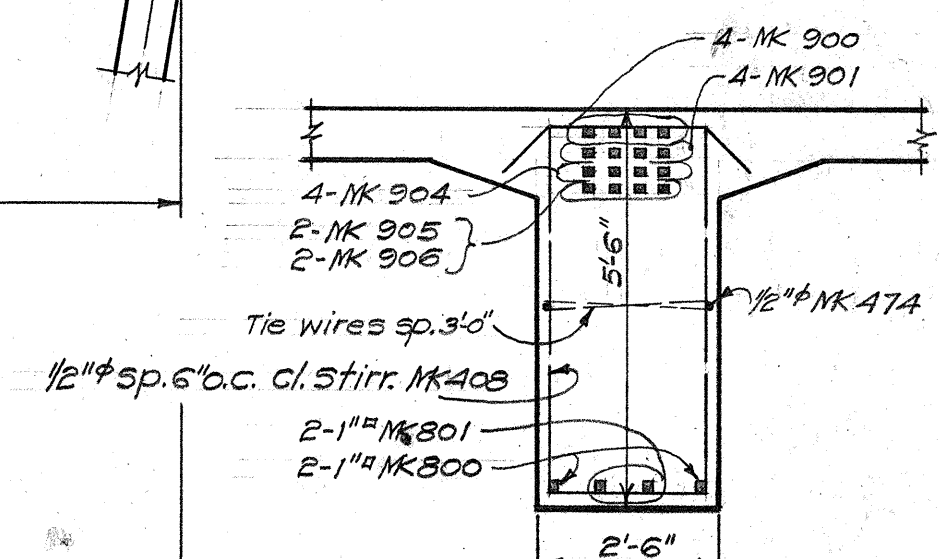
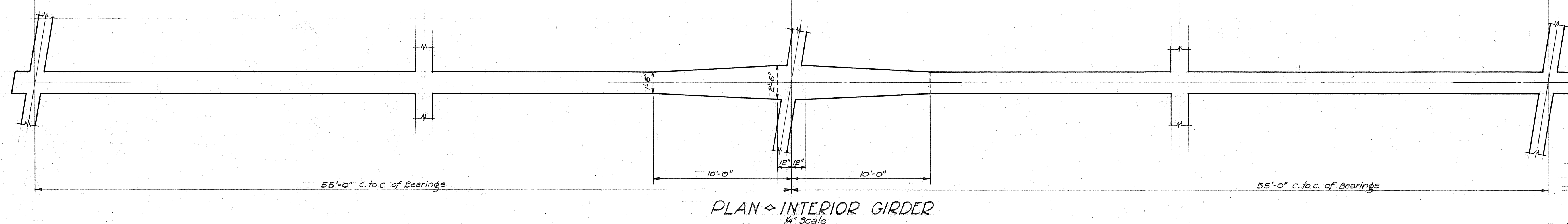
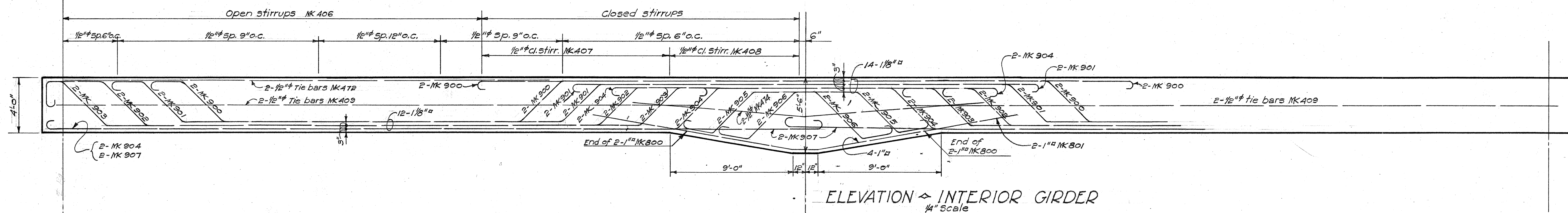
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
KAUKONAHUA BRIDGE
No. 20
STA. 33+51.18 TO STA. 34+66.12
WAIALUA-KAENA PT RD F.A.P. 35 C(1)
DATE: DEC. 1938

SHEET No 2 OF 13 SHEETS

5002.5

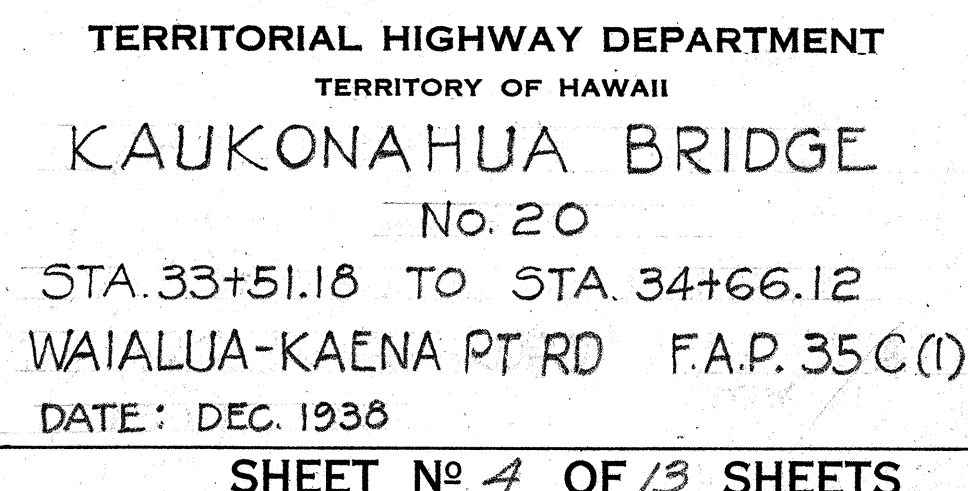
5002.5

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	35-C(1)	1939	6	16



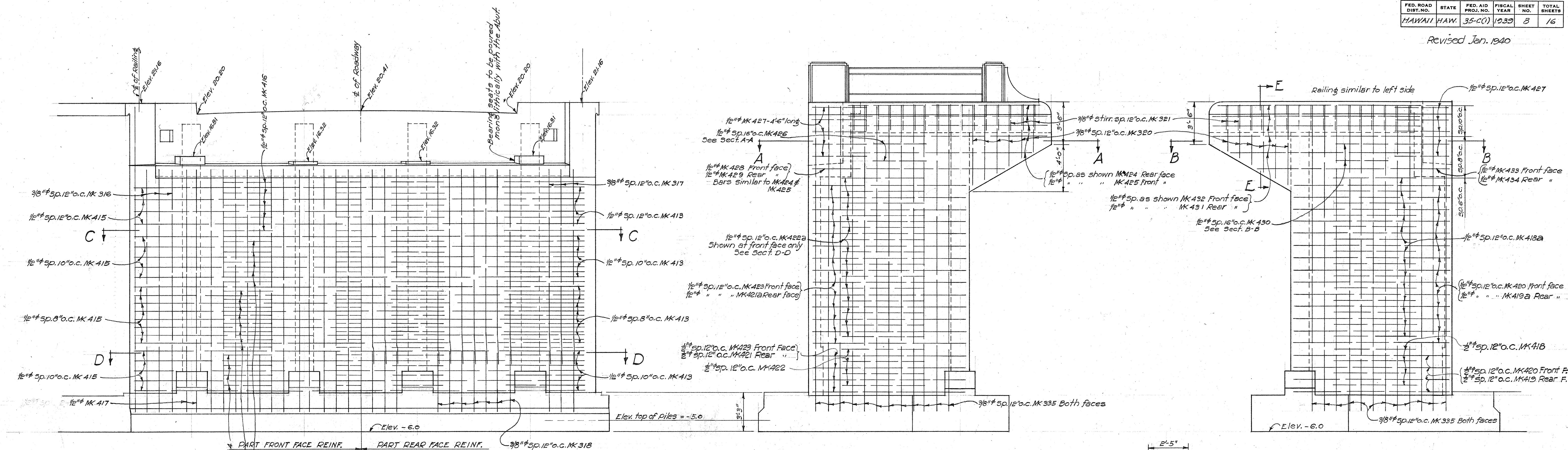
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
KAUKONAHUA BRIDGE
No. 20
STA. 33+51.18 TO STA. 34+66.12
WAIALUA-KAENA PT RD F.A.P. 35C(1)
DATE: DEC. 1938
SHEET No. 3 OF 13 SHEETS

SURVEY PLOTTED BY	DATE
PLAN	12/23/38
TRACED BY	12/23/38
QUANTITIES CHECKED BY	12/23/38
CHECKED BY	12/23/38
ORIGINAL	
NOTE BOOK	
No.	



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
HAWAII	HAW.	35-C(1)	1939	8	16

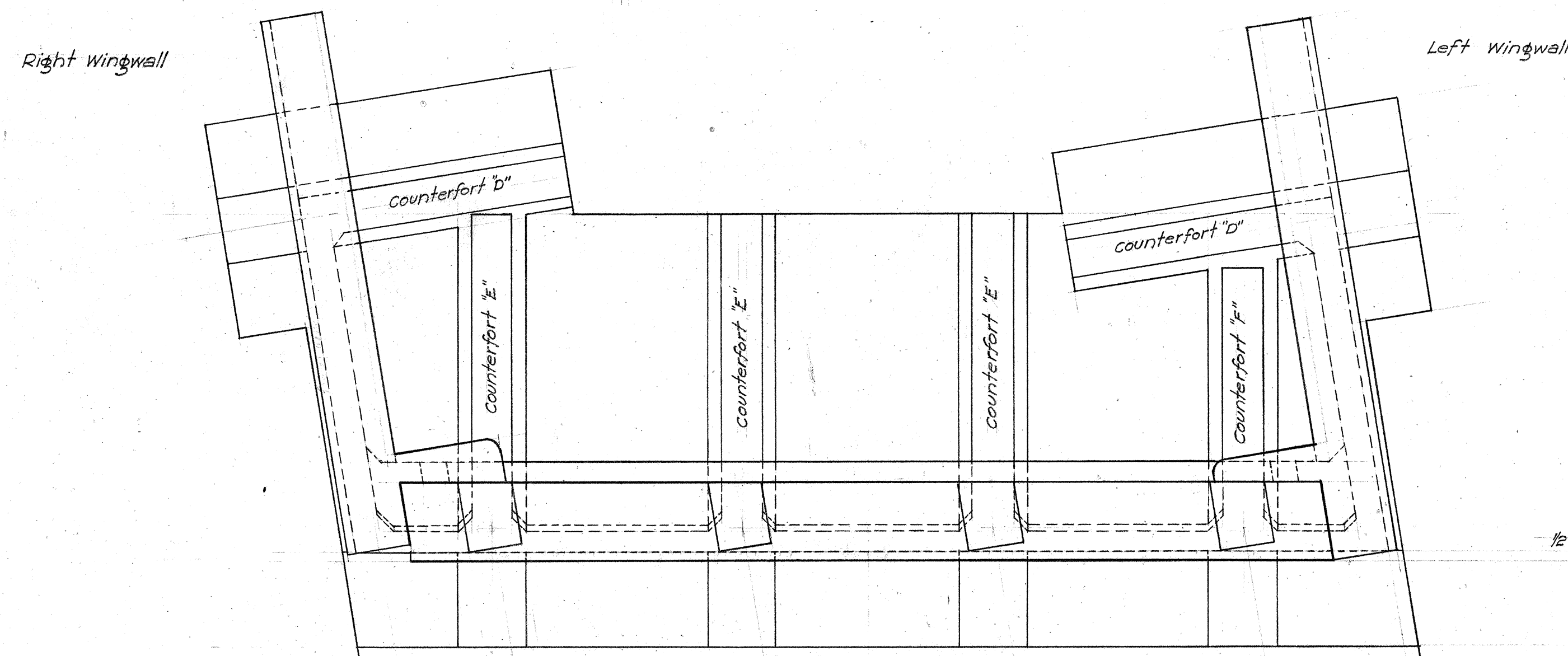
Revised Jan. 1940



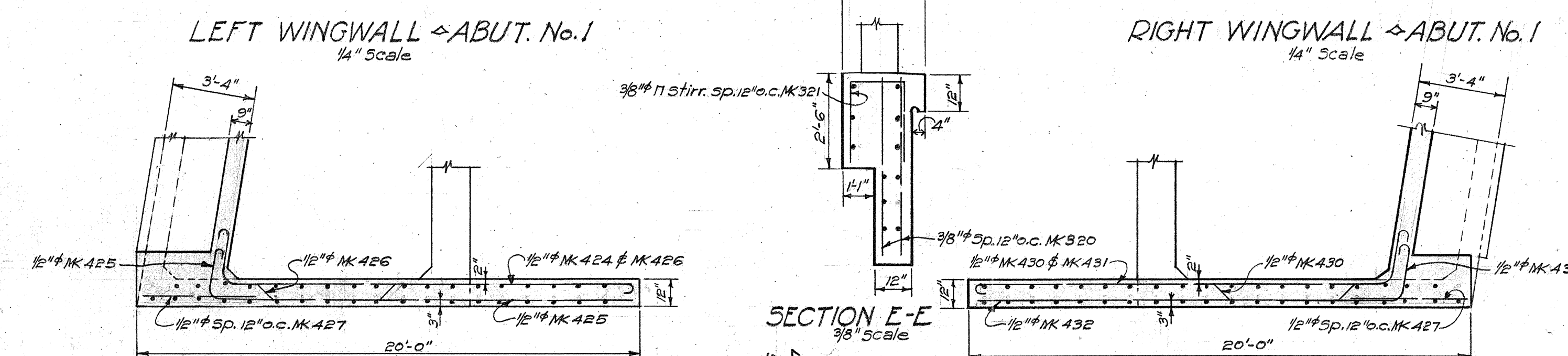
Note! Piles in footing not shown.

ELEVATION Δ ABUT. No. 1

1/4" Scale

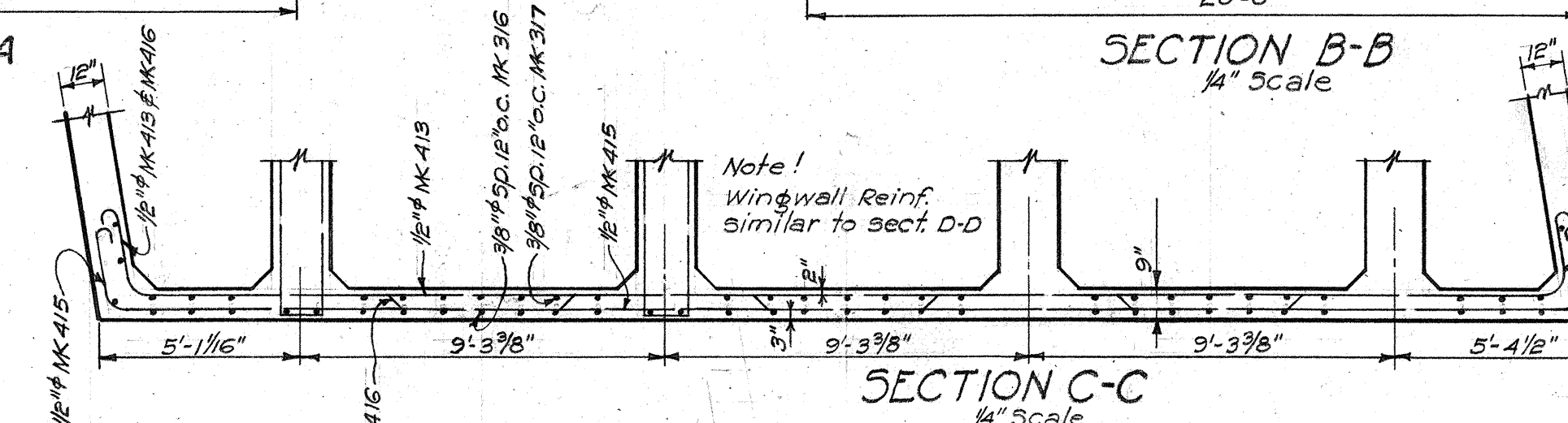


Note! Piles in footing not shown.
PLAN - ABUT. No. 1
1/4" Scale



LEFT WINGWALL & ABUT. No. 1
1/4" scale

RIGHT WINGWALL $\diamond$ ABUT. No. 1
1/4" Scale



SECTION D-D
1/4" Scale

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
KAUKONAHUA BRIDGE
No. 20
STA. 33+51.18 TO STA. 34+66.12
WAIALUA-KAENA PT RD F.A.P. 35C (I)
DATE : DEC. 1938
SHEET No. 5 OF 13 SHEETS

Revision: Wingwall bars added
MK418a - 419a - 421a - 422a

ORIGINAL PLAN	SURVEY PLOTTED BY DESIGNED BY DRAWN BY TRACED BY QUANTITIES BY QUANTITIES CHECKED BY CHECKED BY	DATE Dec. 1938 " " " " " " Feb. 1939 " " " "
NOTE BOOK		

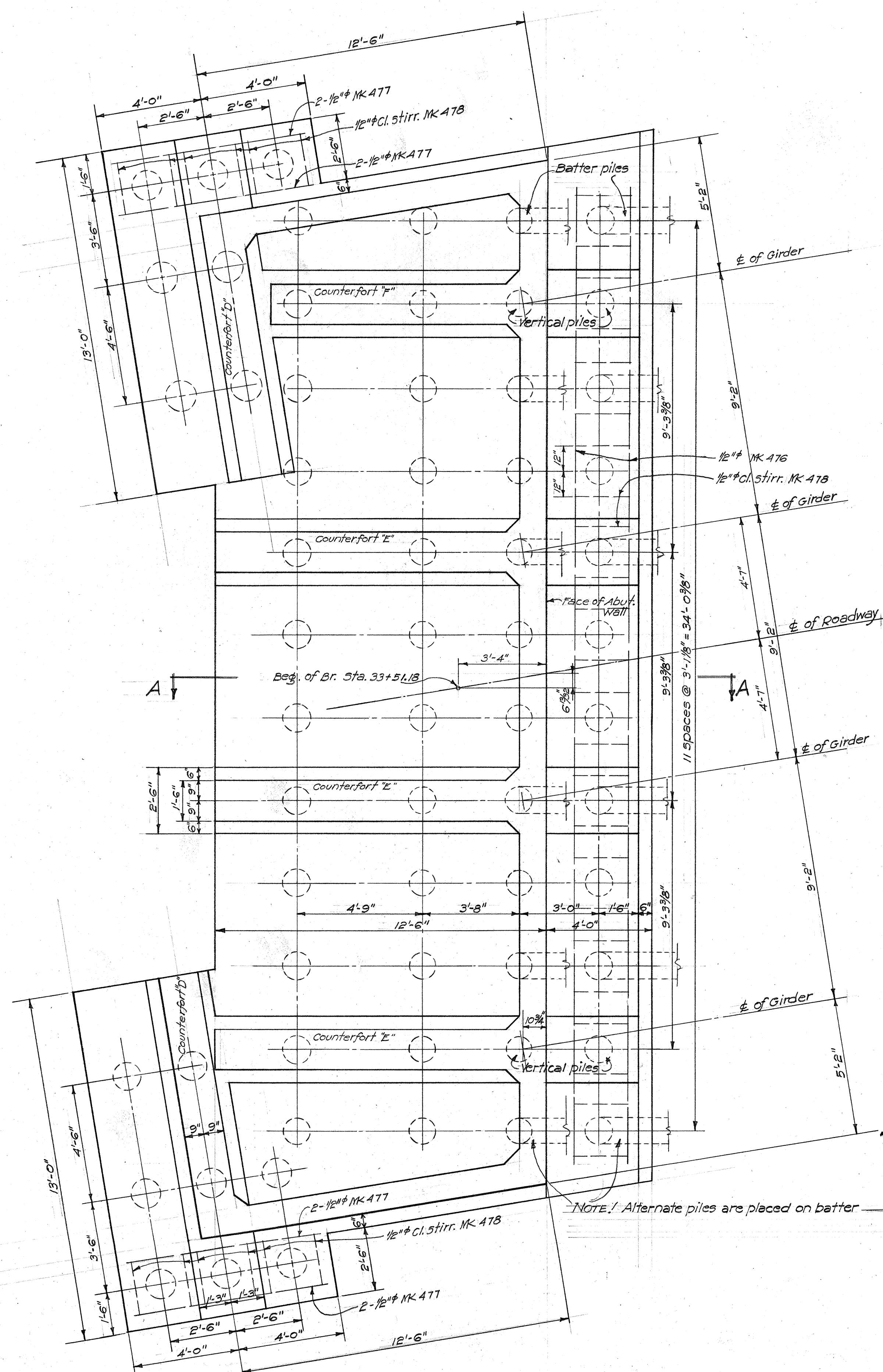
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	35(1)	1939	9	16

Revised 1-24-40

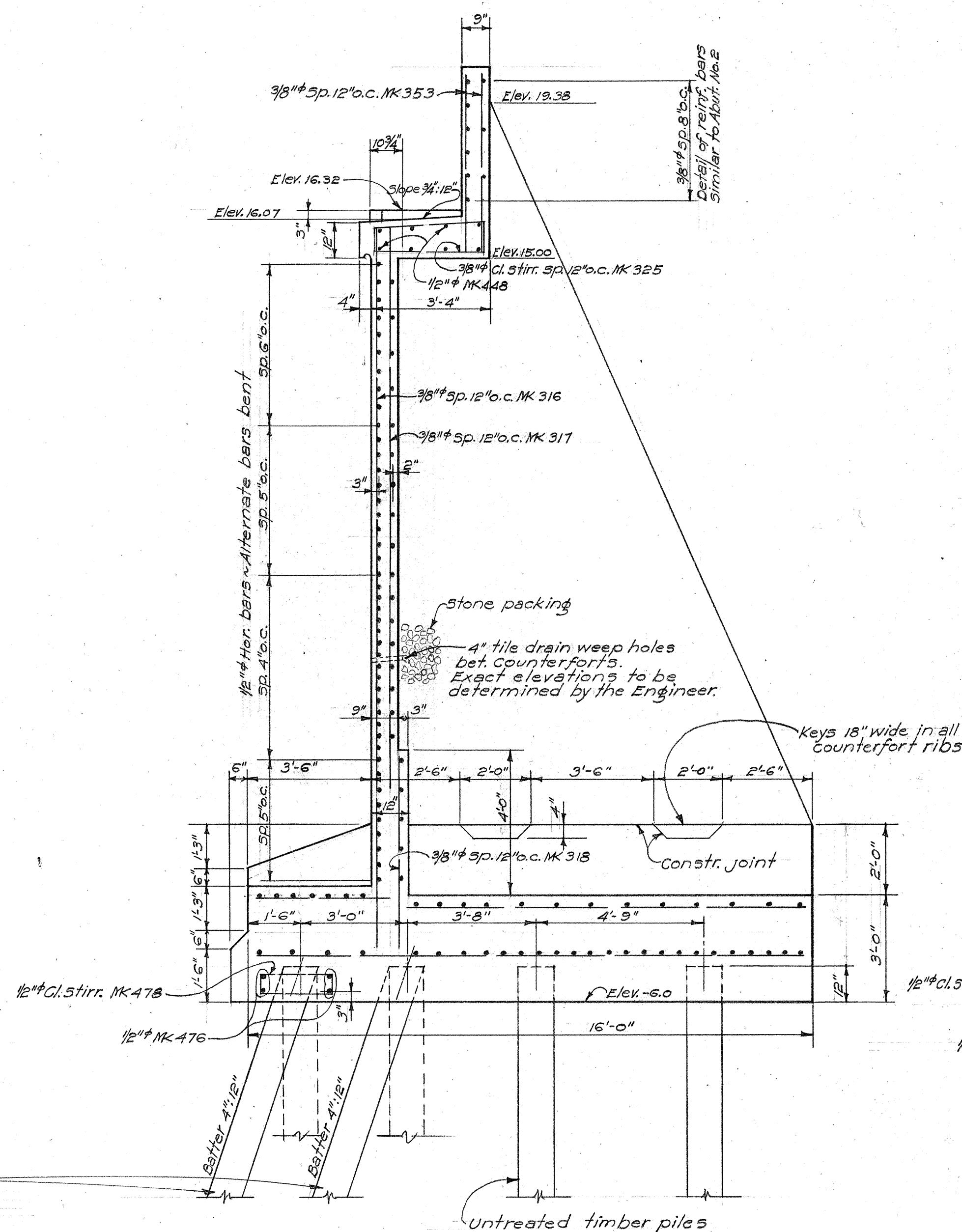
Revision: Row 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

DESIGNED BY	DATE
DRAWN BY	12/15/39
CHECKED BY	12/15/39
QUANTITIES CHECKED BY	12/15/39
CHECKED BY	12/15/39

ORIGINAL PLAN	NO.
NOTE BOOK	NO.

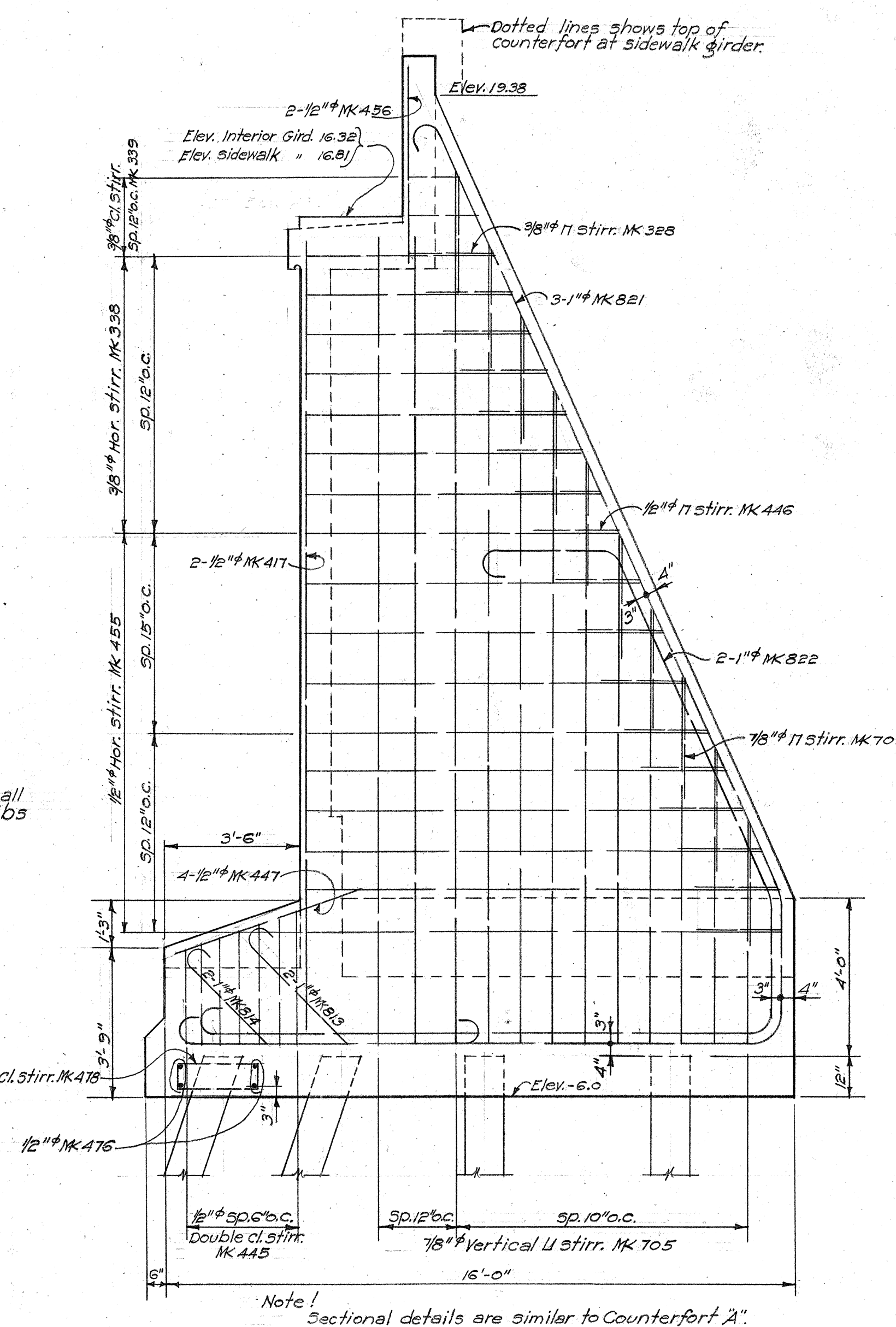


PILE LAYOUT ABUT. No. 1
3/8" Scale



SECTION A-A
3/8" Scale

Note!
Abutment No. 1 footing reinforcement is similar to Abut. No. 2.

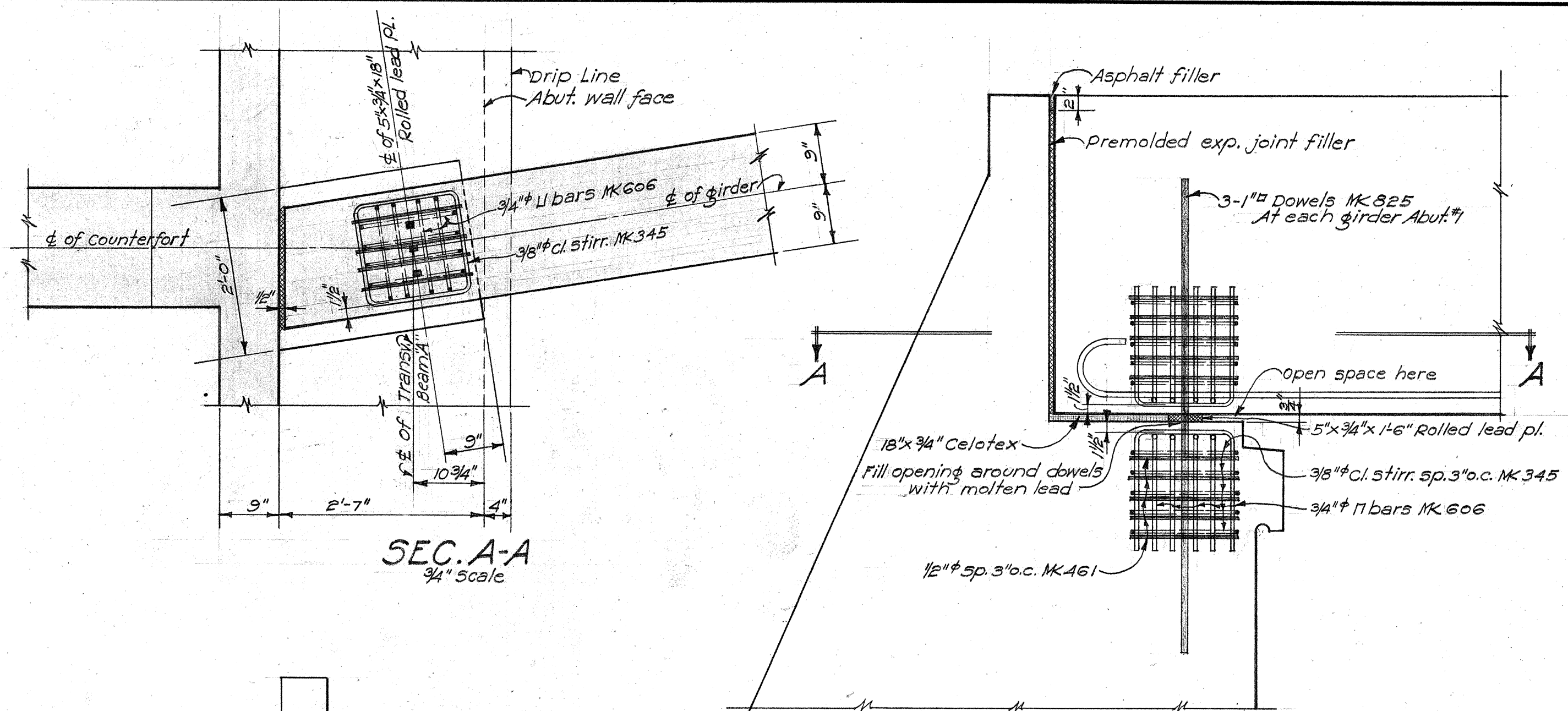


COUNTERTOP "E" ABUT. No. 1
3/8" Scale

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
KAUKONAHUA BRIDGE
No. 20
STA. 33+51.13 TO STA. 34+66.12
WAILUA-KAENA PT RD F.A.P. 35C (1)
DATE: DEC. 1938

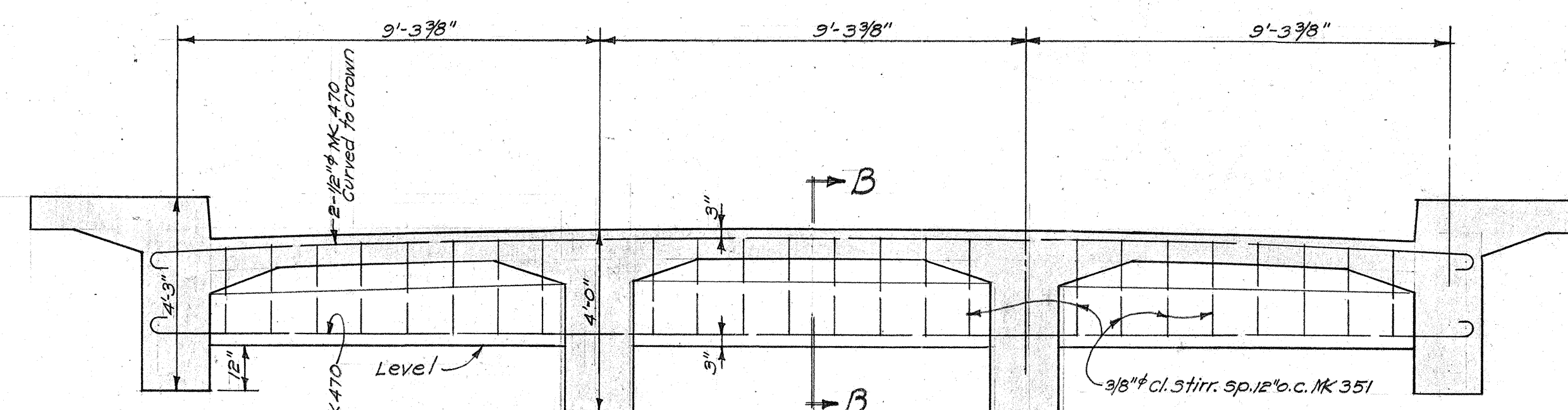
SHEET No. 6 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	35-C(1)	1939	10	16

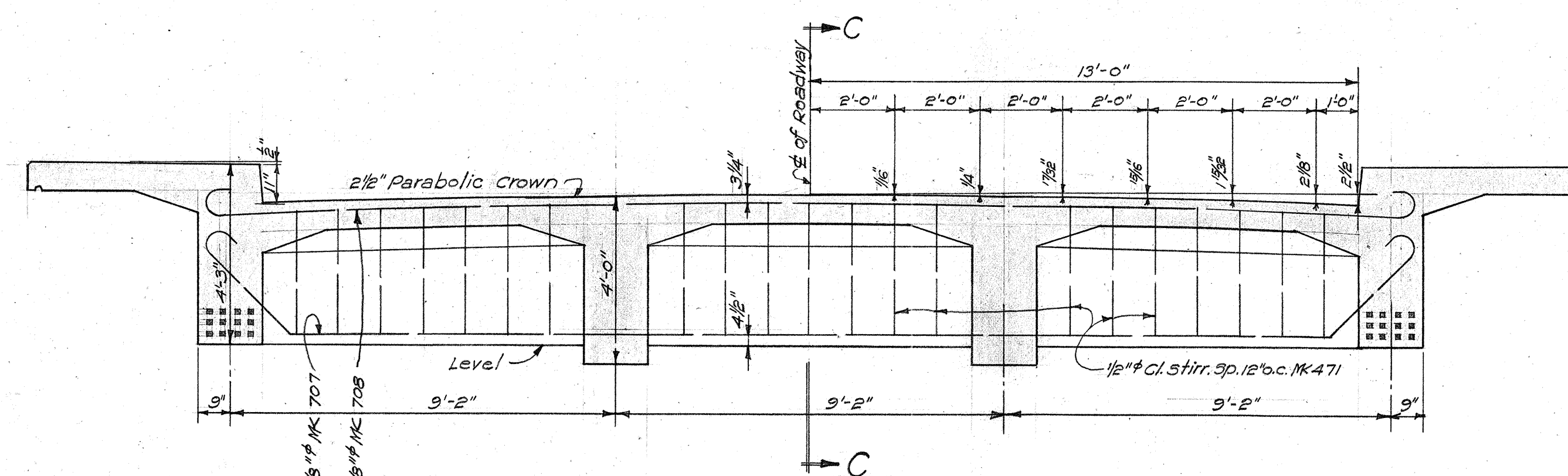


SEC. A-A
3/4" Scale

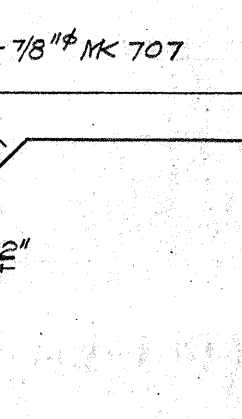
SECTION THRU $\frac{1}{2}$ OF INTERIOR GIRDER ABUT. No. 1
3/4" Scale



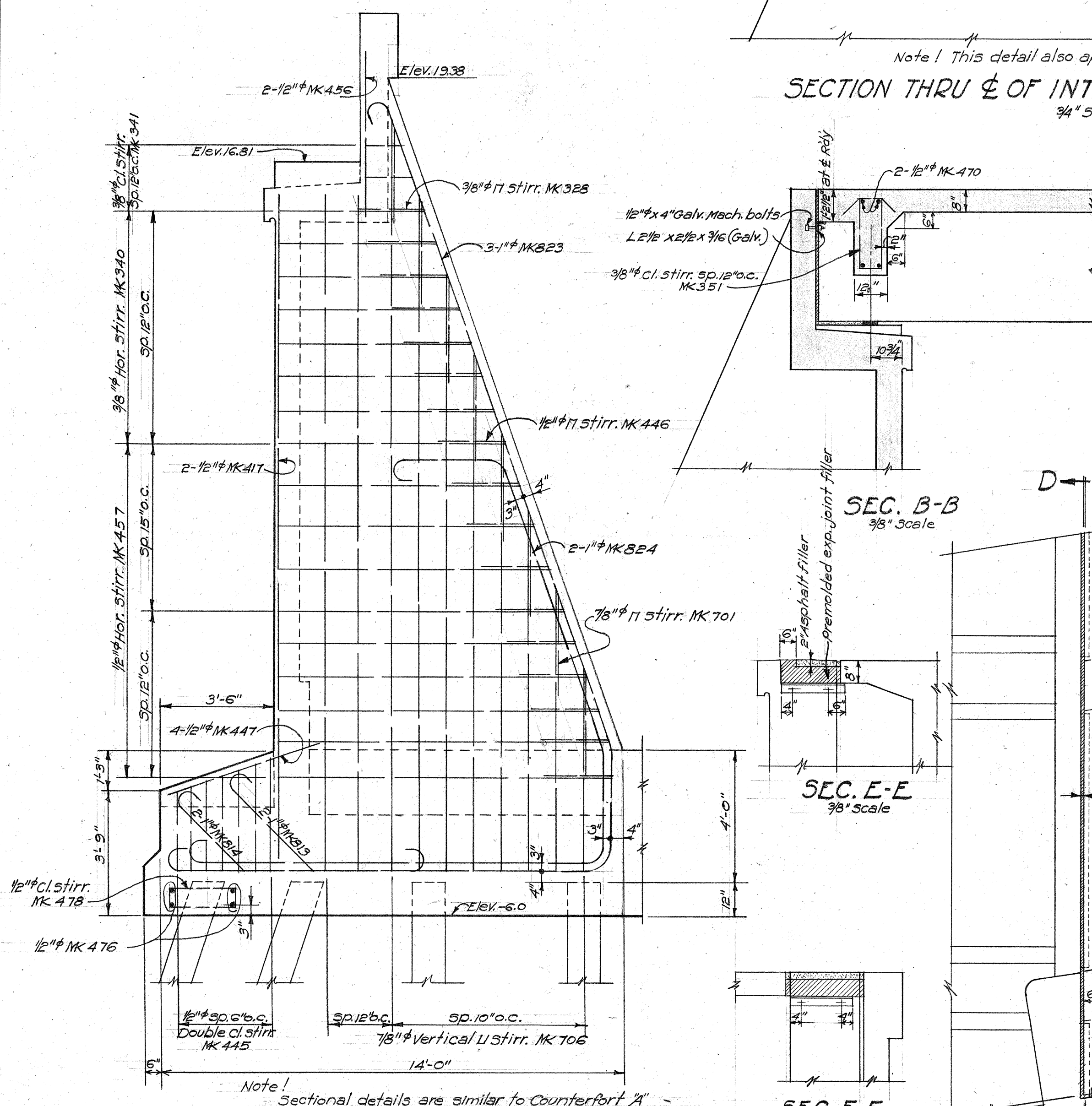
TRANSVERSE BEAM "A" - FIXED & EXPANSION END OF BRIDGE
3/8" Scale



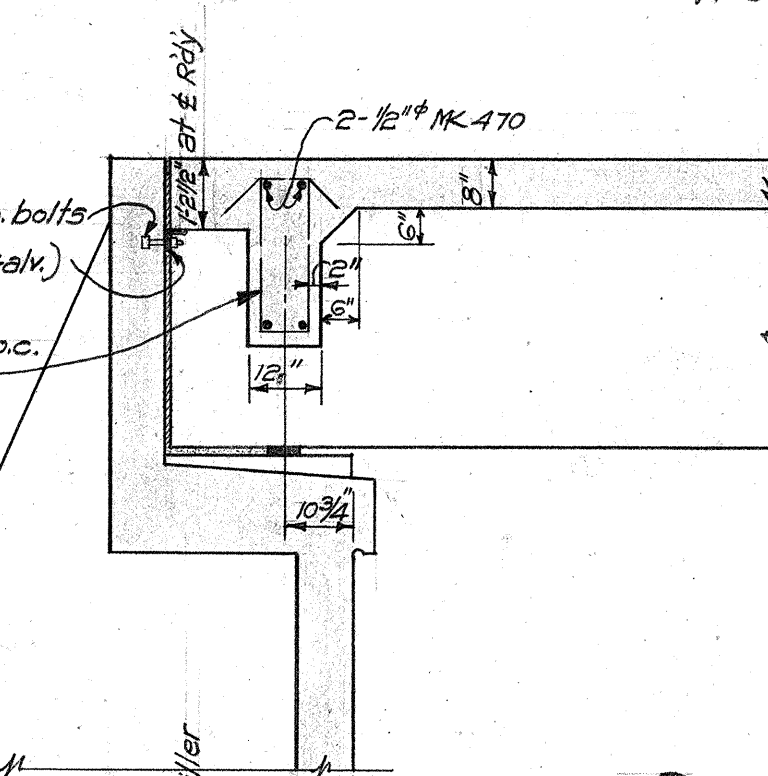
TRANSVERSE BEAM "B" IN SPAN
3/8" Scale



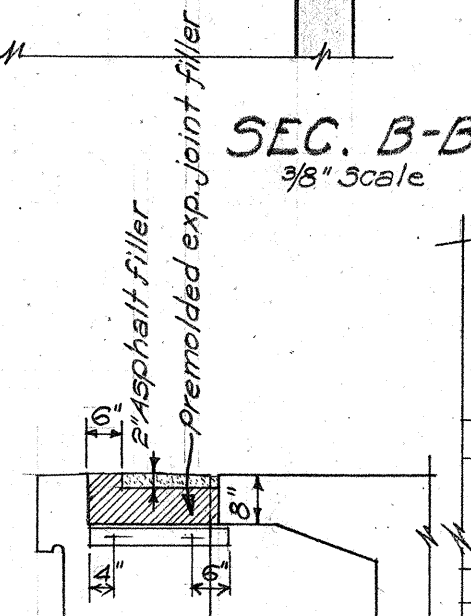
SEC. C-C
3/8" Scale



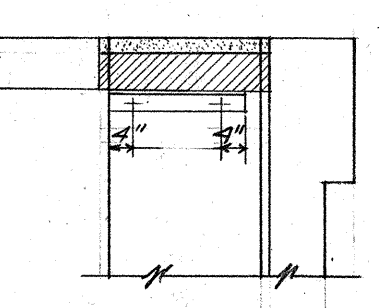
COUNTERFORT "F" ABUT. No. 1
3/8" Scale



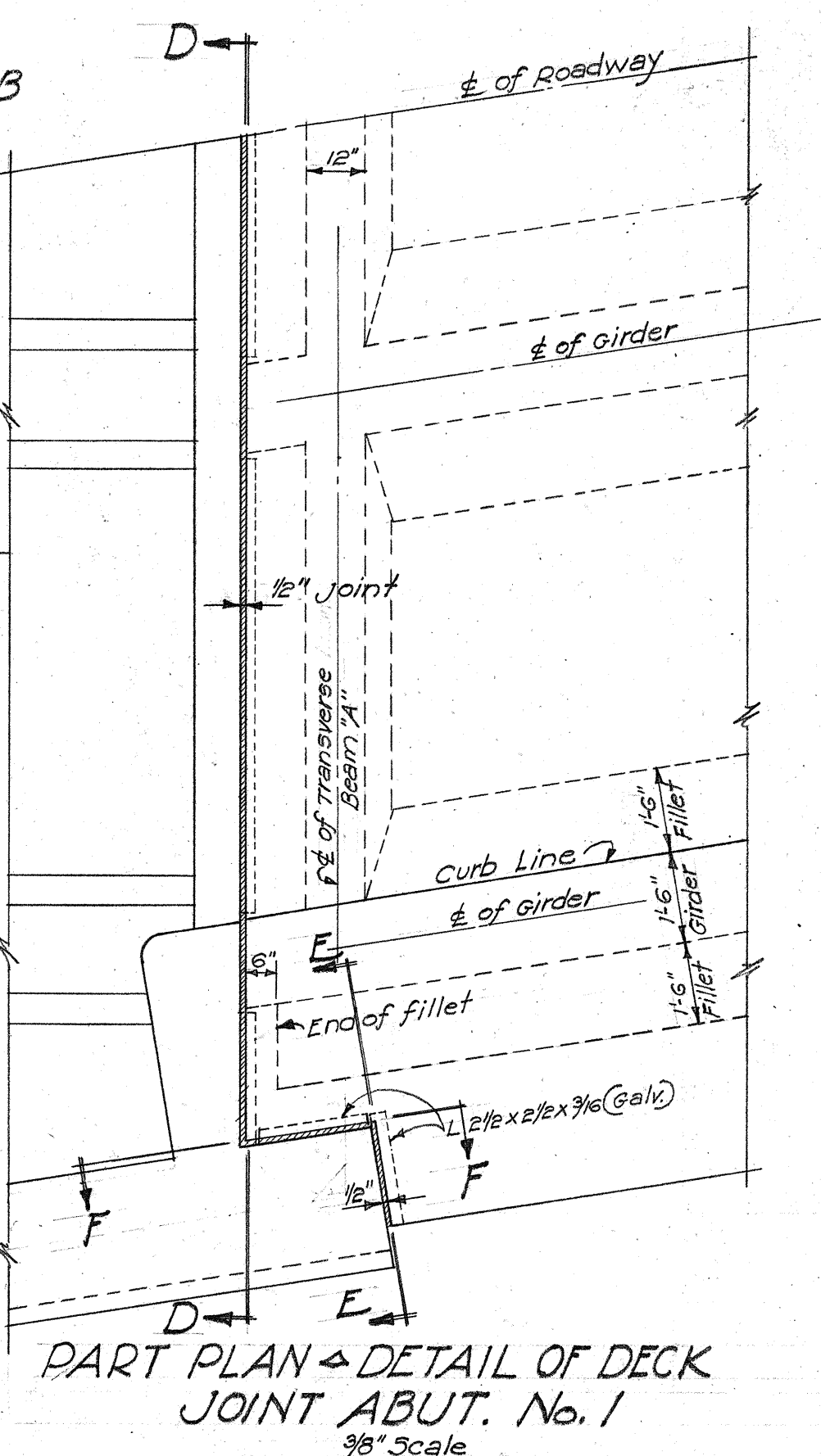
SEC. B-B
3/8" Scale



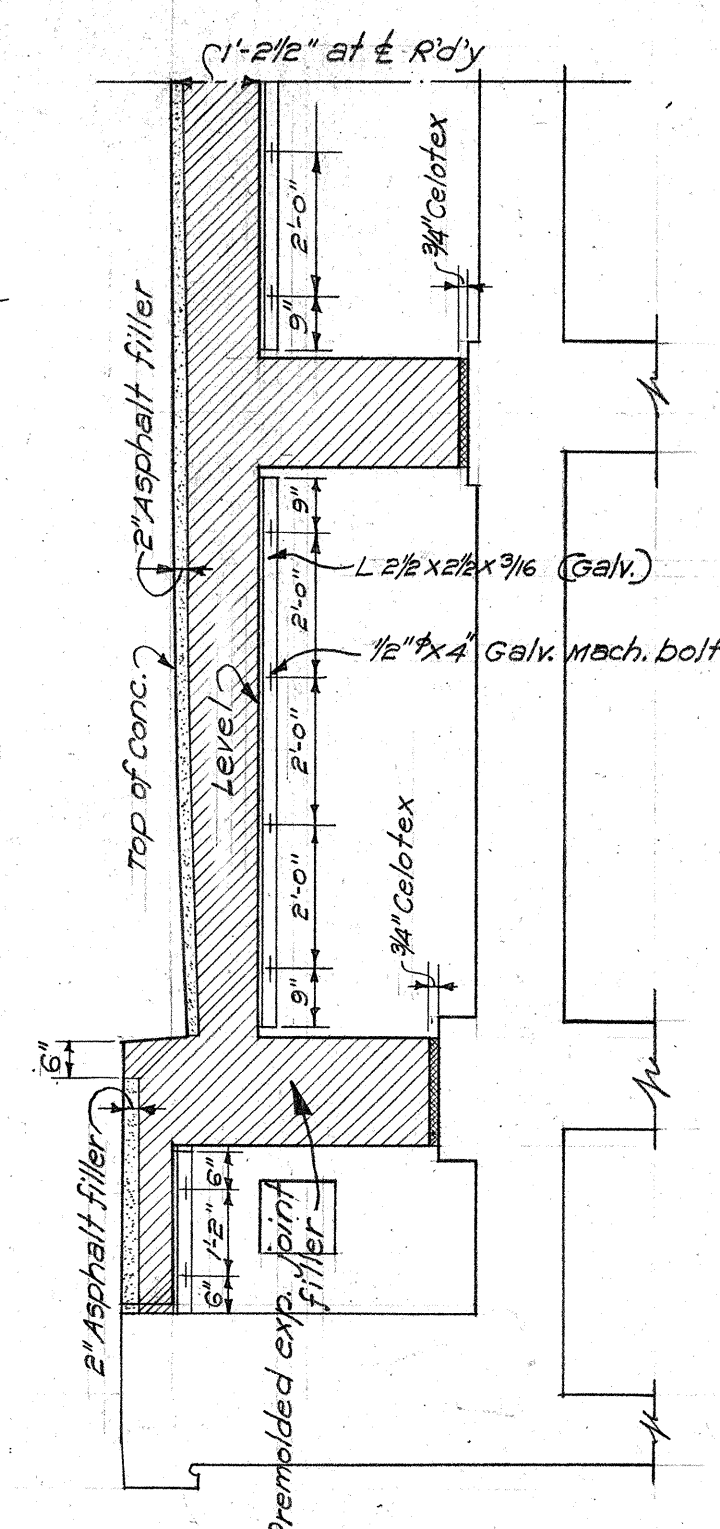
SEC. E-E
3/8" Scale



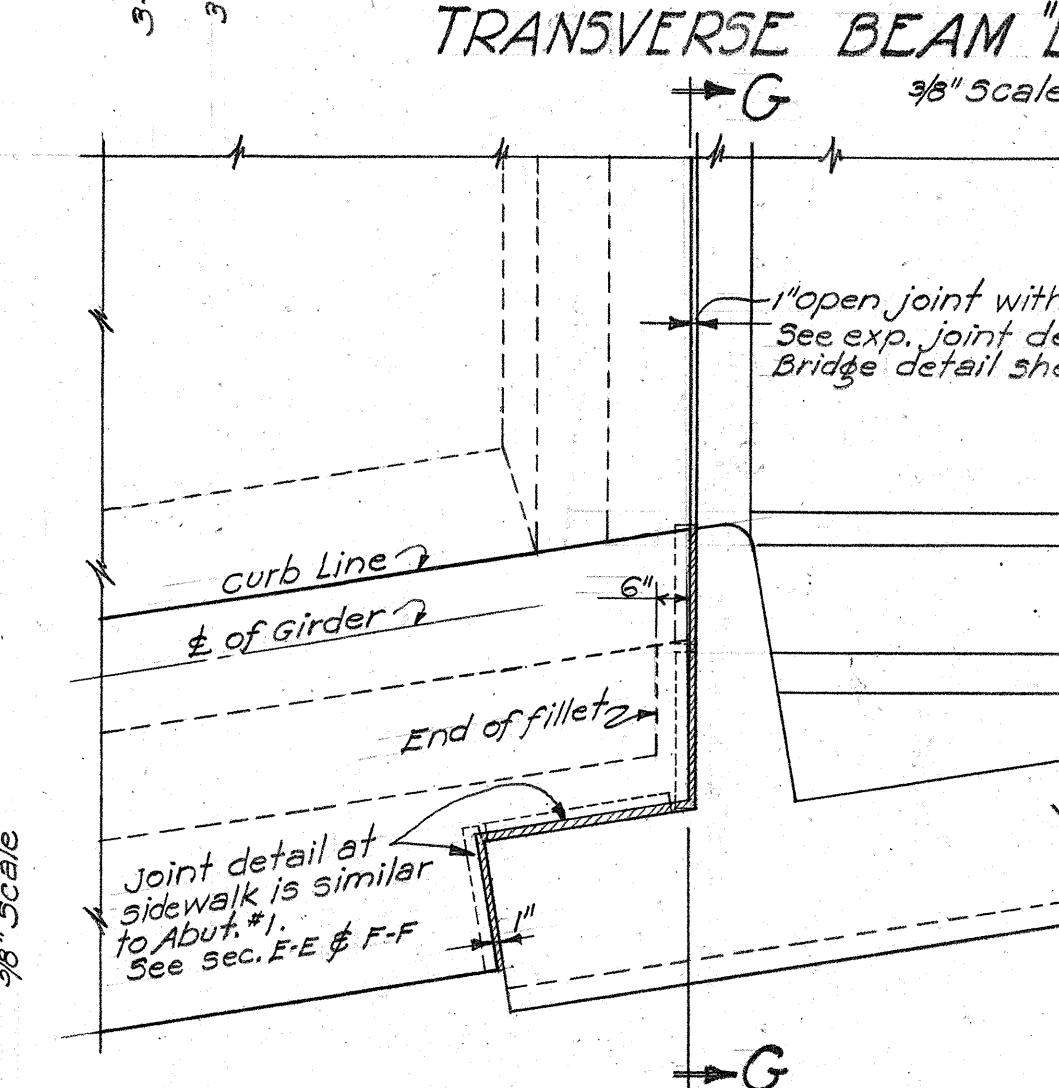
SEC. F-F
3/8" Scale



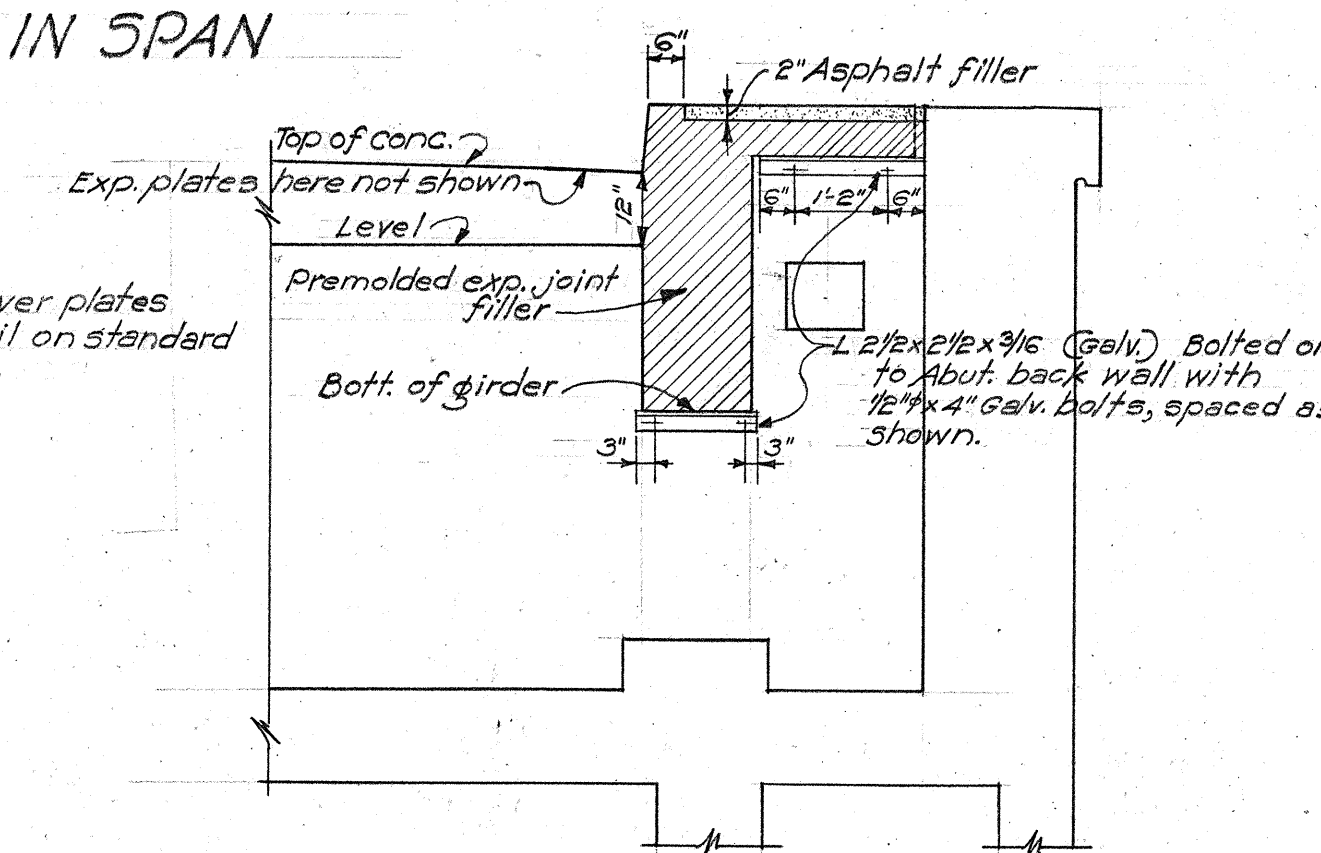
PART PLAN & DETAIL OF DECK JOINT ABUT. No. 1
3/8" Scale



SECTION D-D
3/8" Scale



PART PLAN & DETAIL OF SIDEWALK JOINT ABUT. No. 2
3/8" Scale



SEC. G-G
3/8" Scale

SPECIFICATION FOR ASPHALT FILLER

Melting point 190-200 (A.S.T.M. D 36-26)
Penetration 30-40 (A.S.T.M. D 5-25)
Flash point Min. 400 (A.S.T.M. D 93-36)

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

KAUKONAHUA BRIDGE

No. 20

STA. 33+51.18 TO STA. 34+66.12

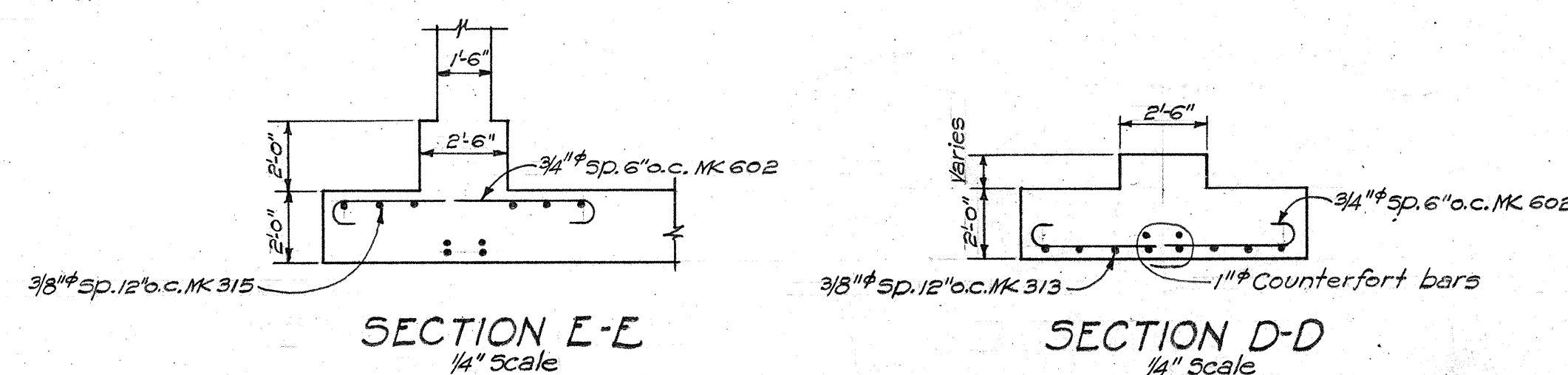
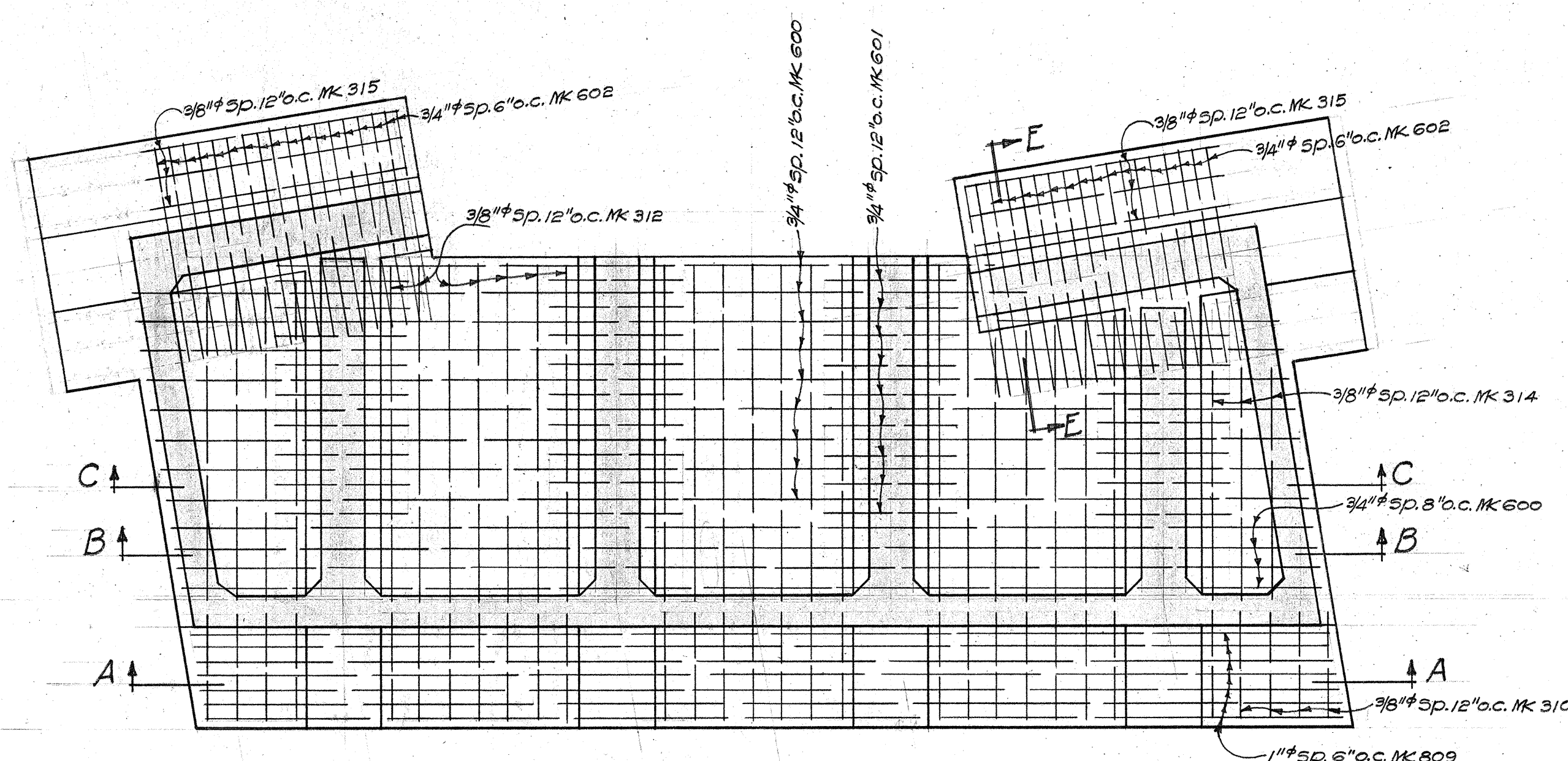
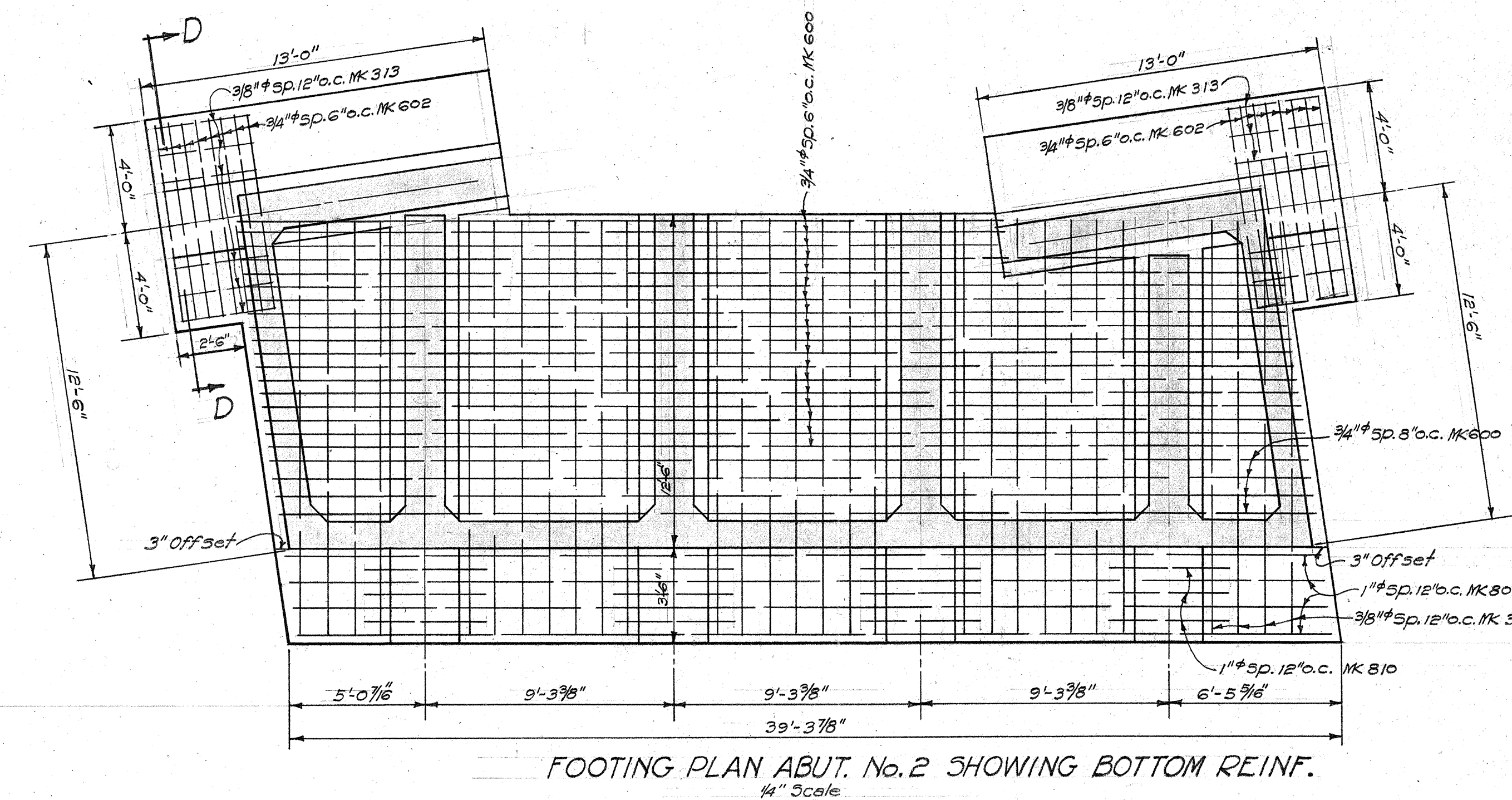
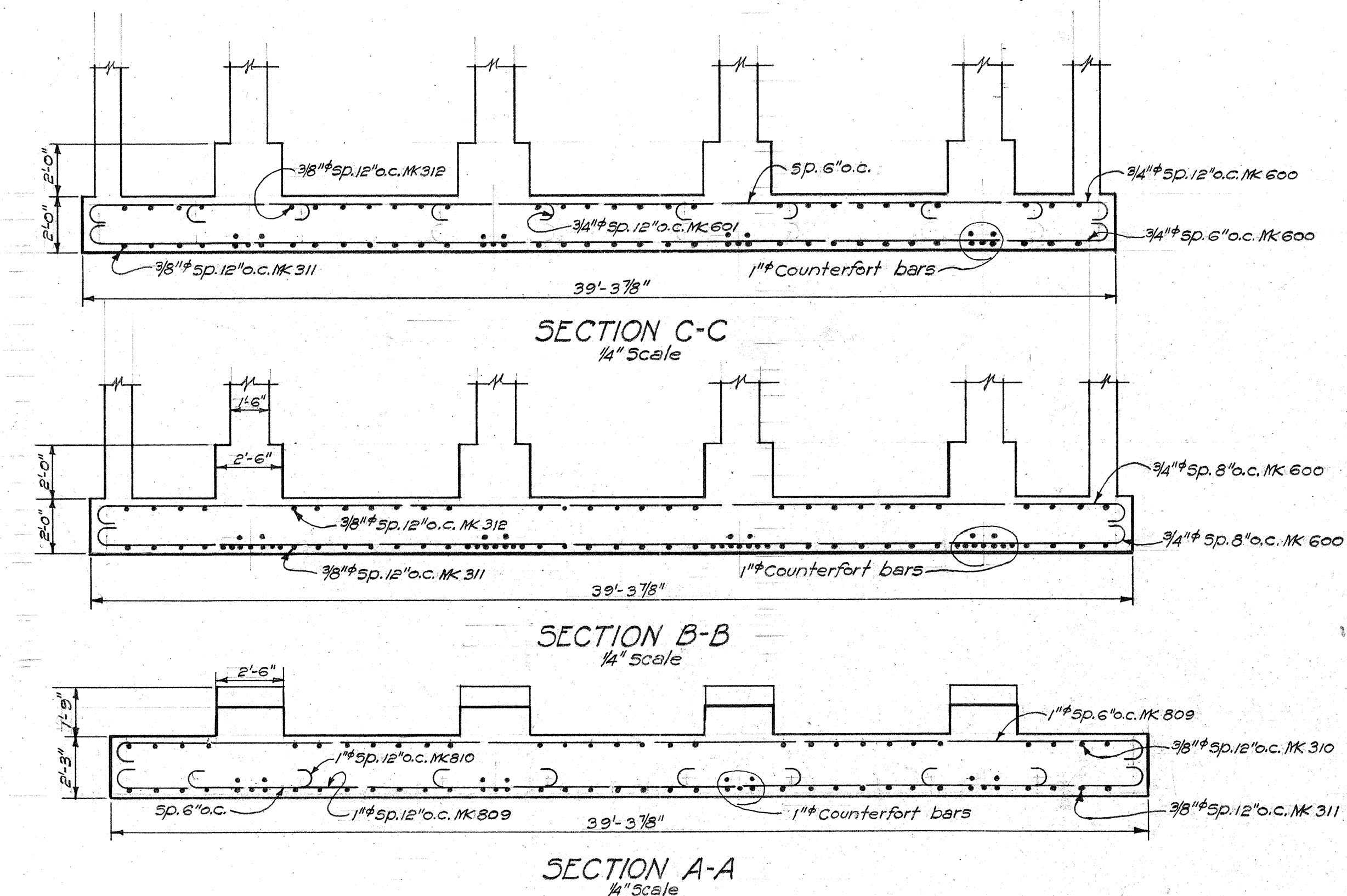
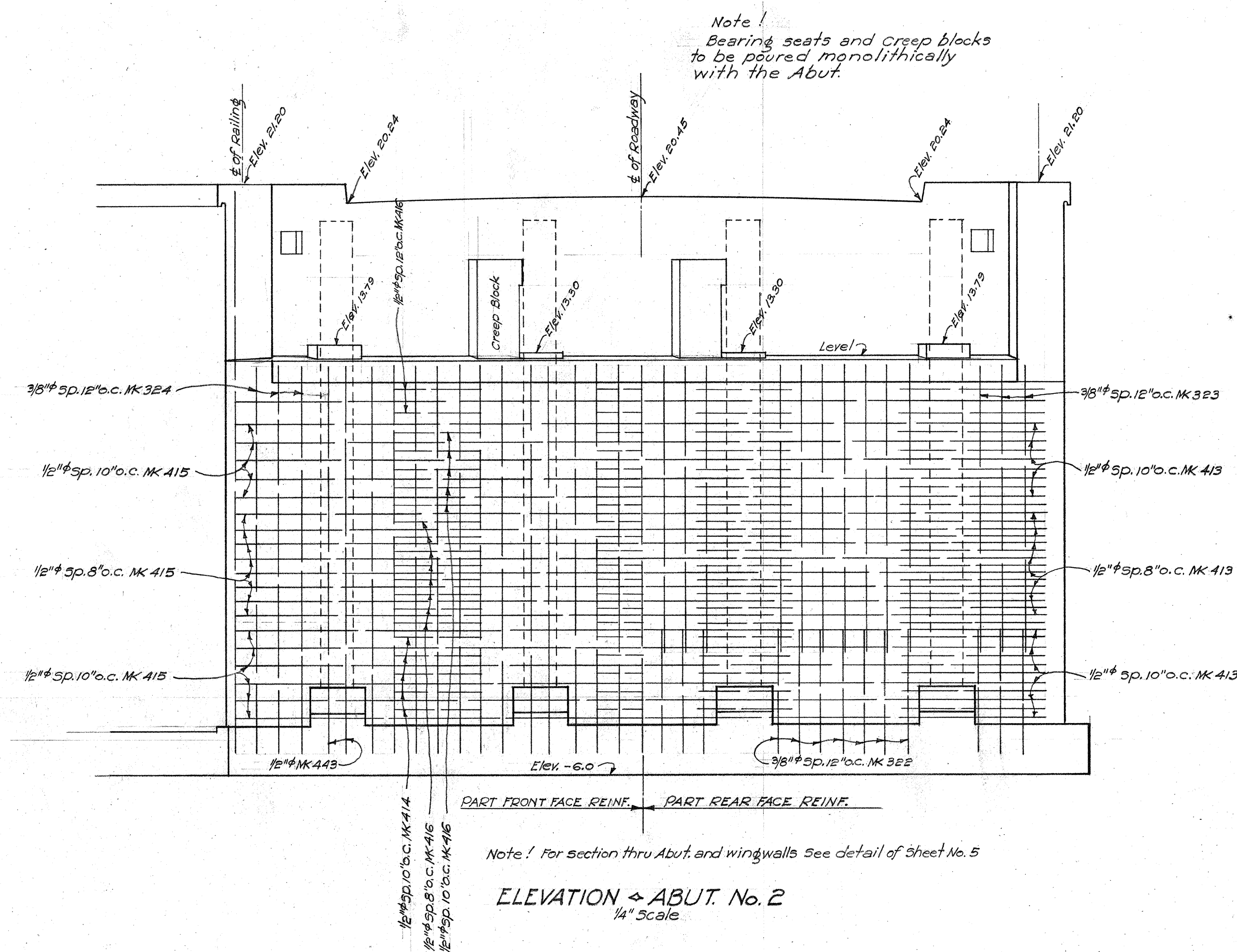
WAIALUA-KAENA PT RD F.A.P. 35C (1)

DATE: DEC. 1938

SHEET No 7 OF 13 SHEETS

DESIGNED BY E. E. BENTLEY	DATE DEC. 1938
DRAWN BY E. E. BENTLEY	
CHECKED BY S. E. BENTLEY	
QUANTITIES CHECKED BY S. E. BENTLEY	
NOTE BOOK No.	

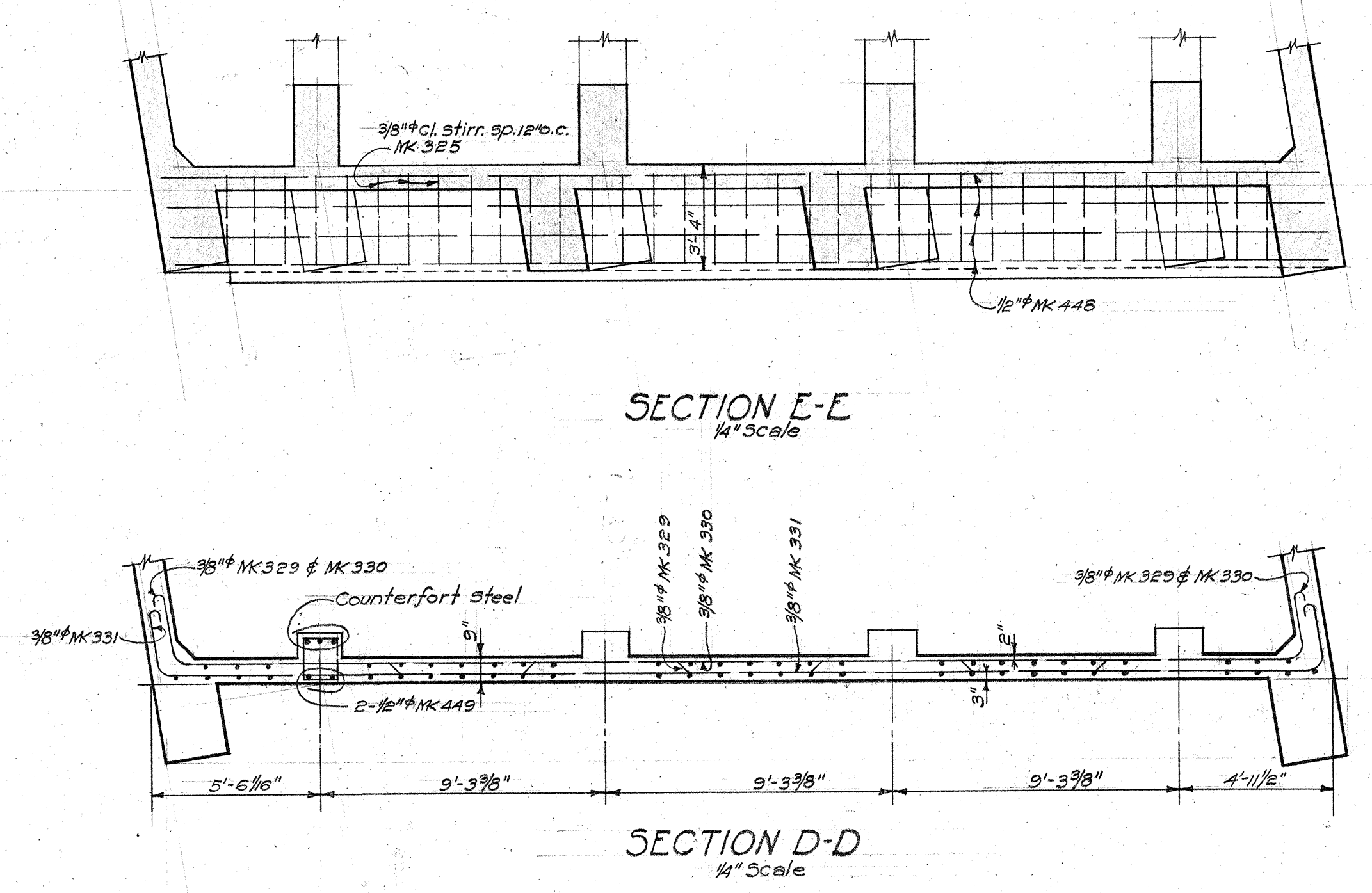
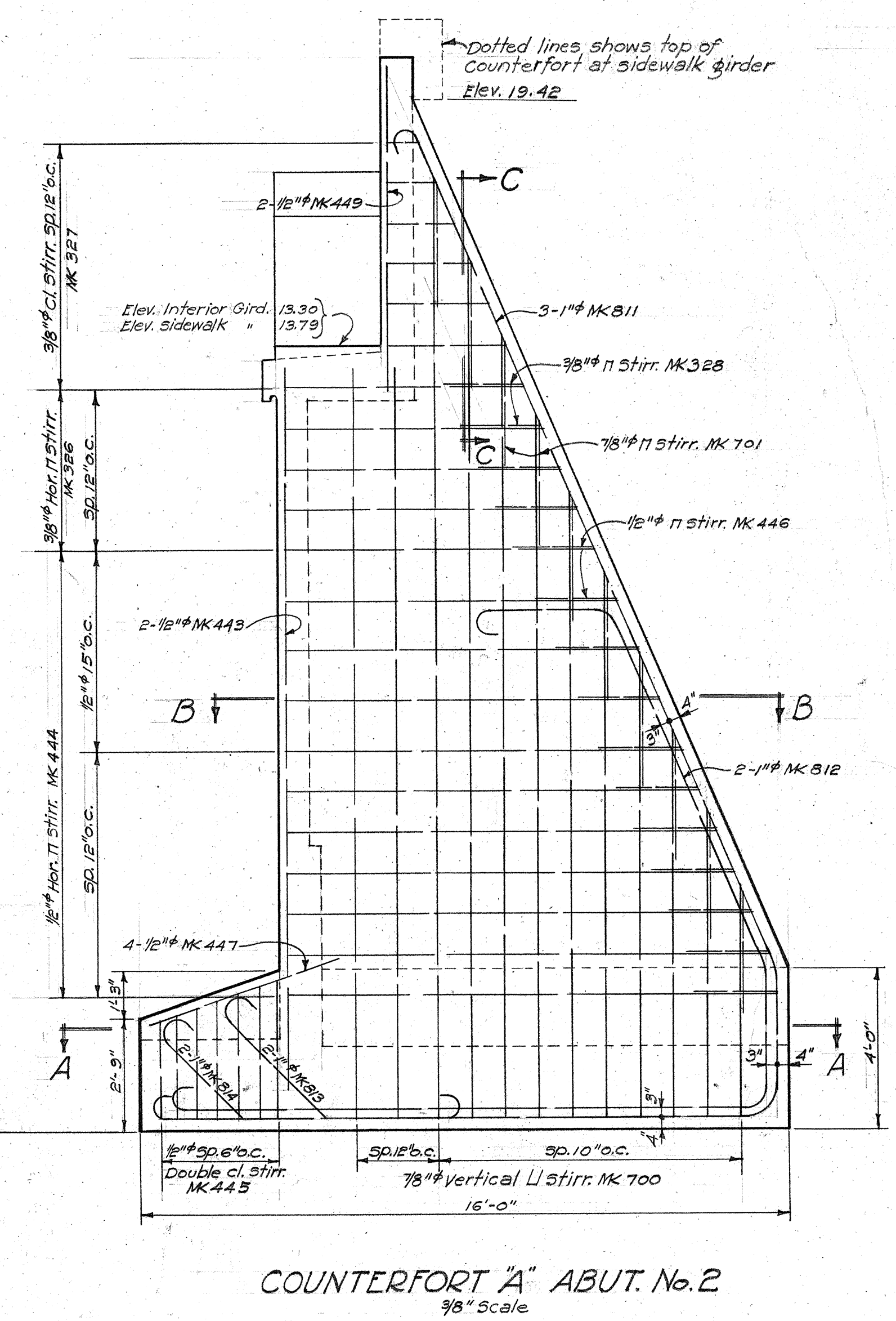
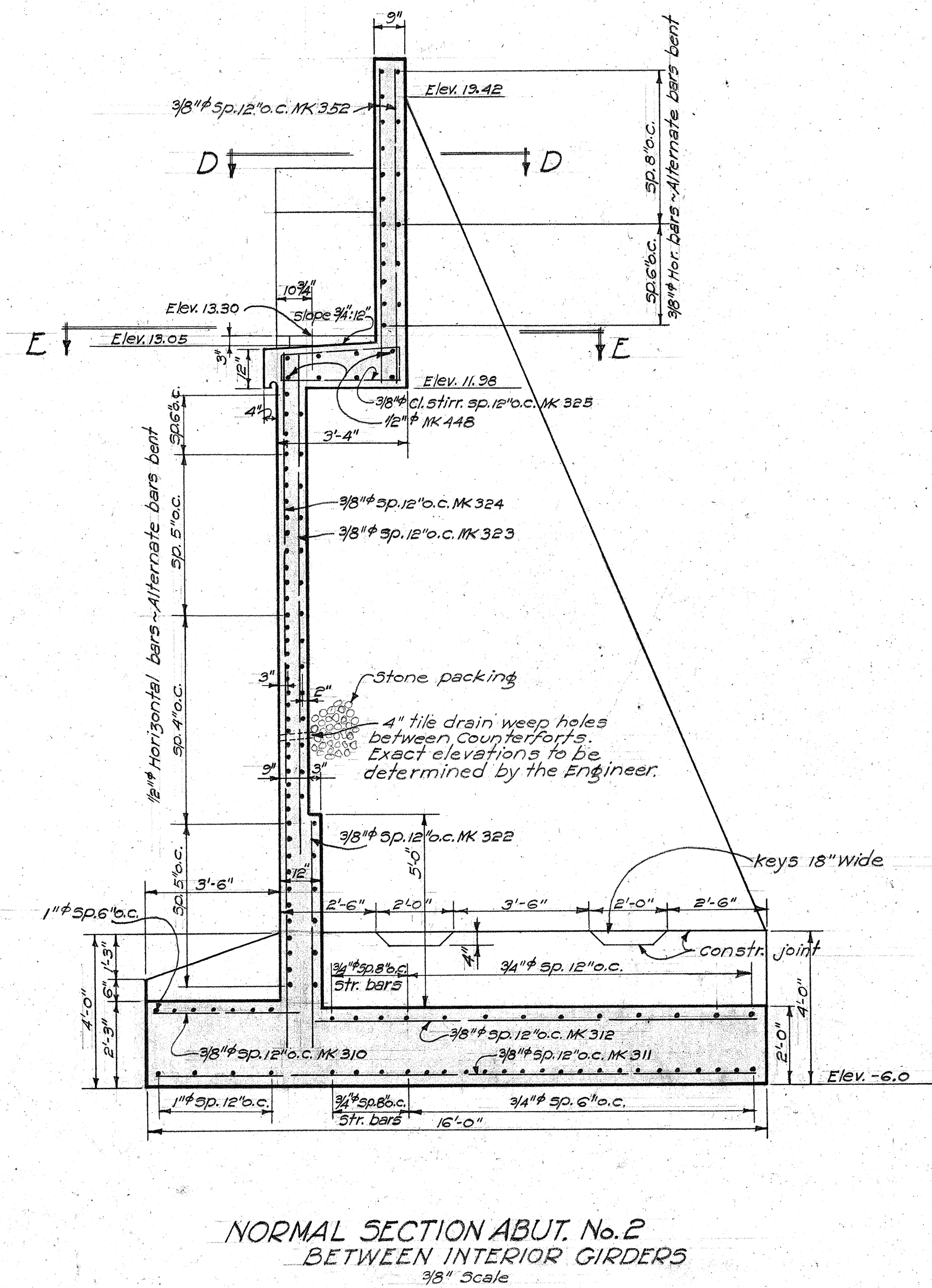
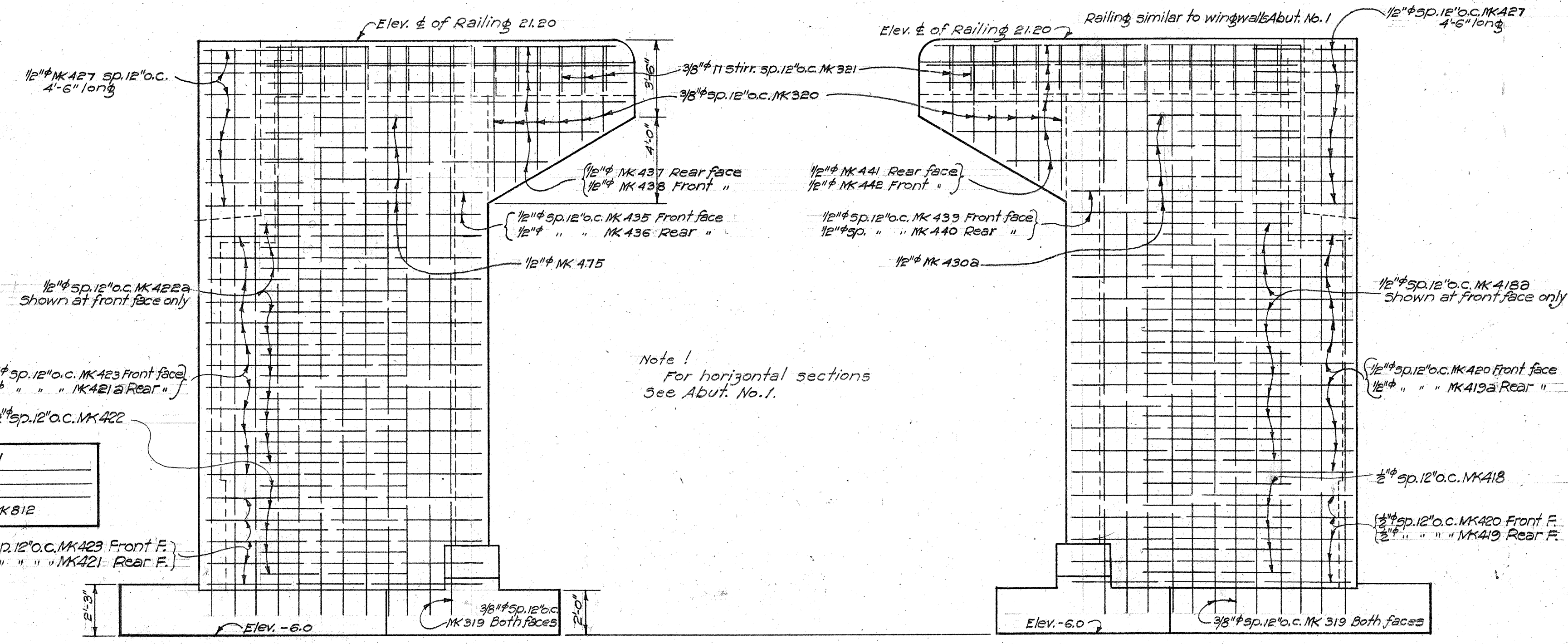
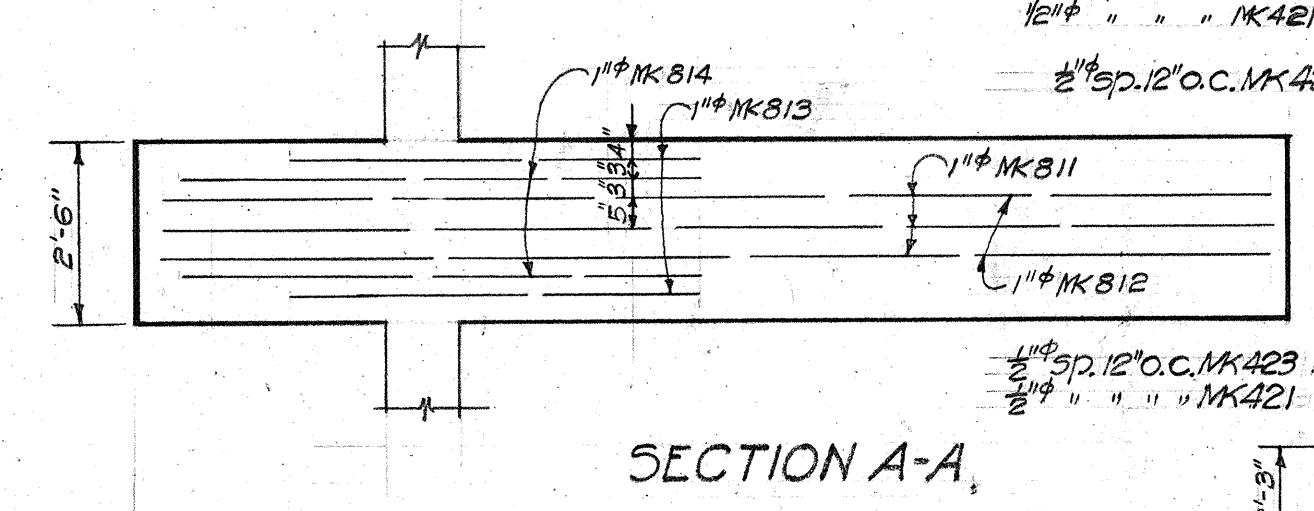
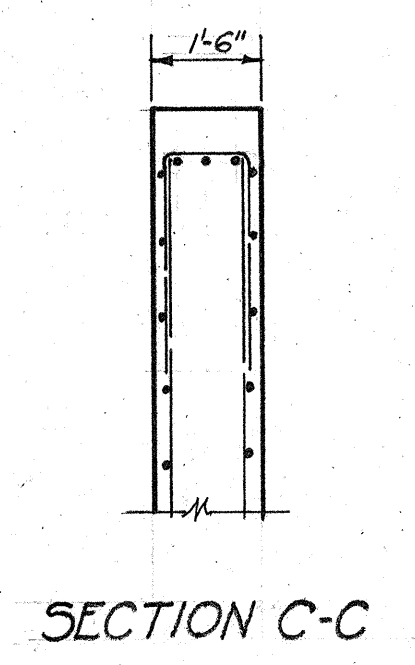
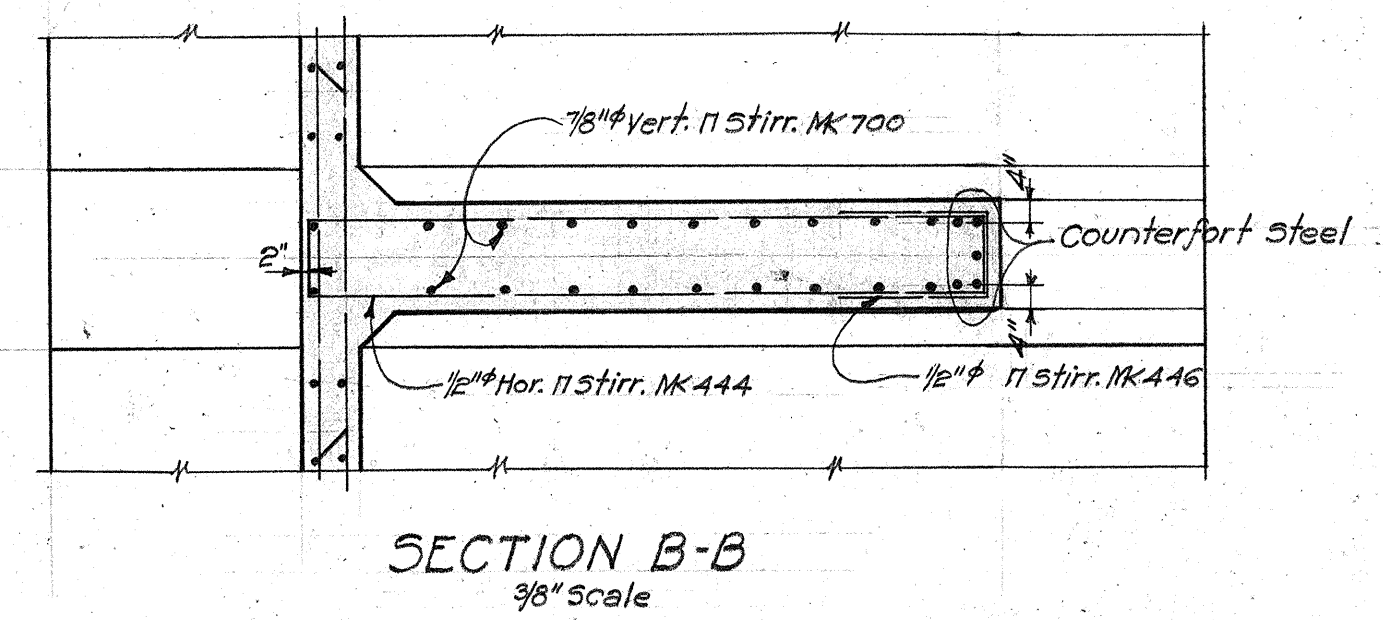
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEET
HAWAII	HAW.	35-C(1)	1939	11	16



TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
KAUKONAHUA BRIDGE
No. 20
STA. 33+51.18 TO STA. 34+66.12
WAIALUA-KAENA PT RD. F.A.P. 35C(1)
DATE: DEC. 1938
SHEET No. 8 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	35-C(1)	1939	12	16

Revised Jan. 1940

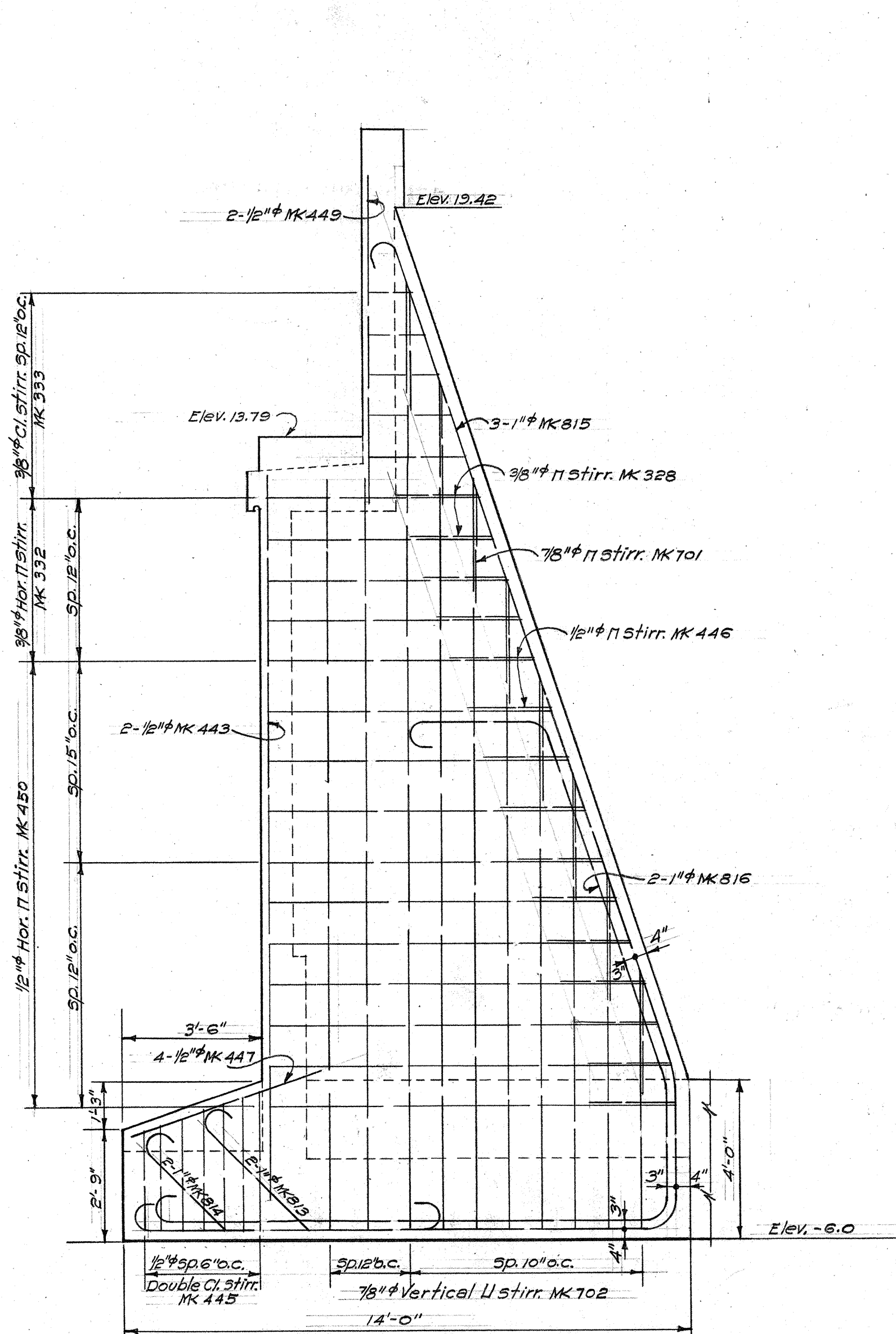
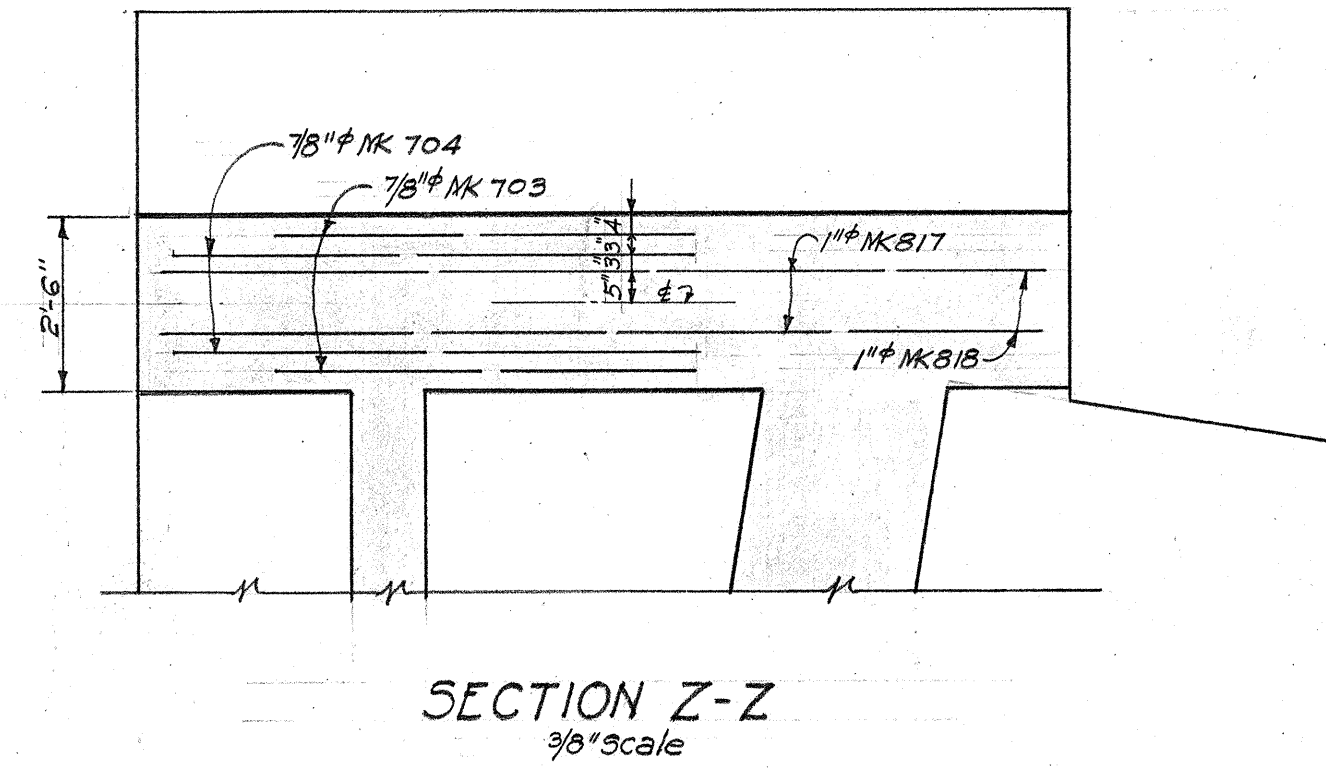
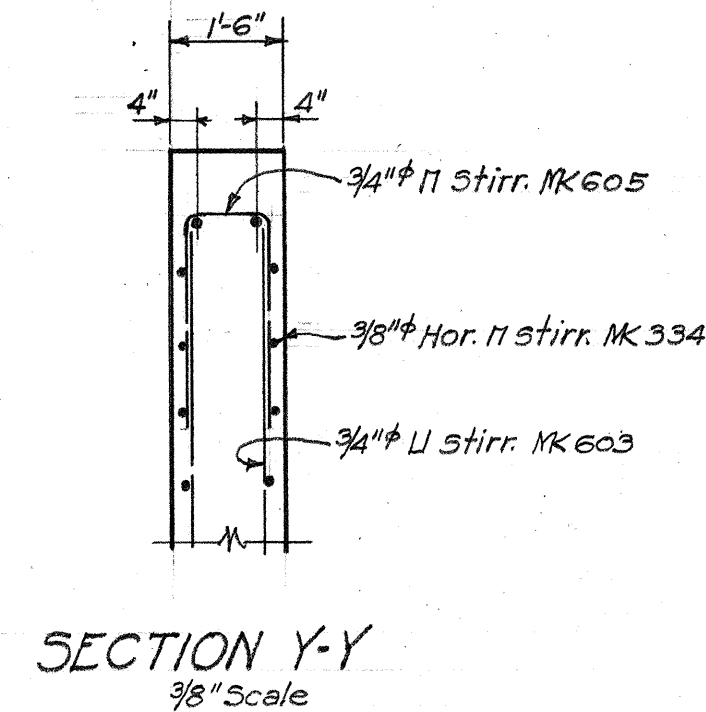
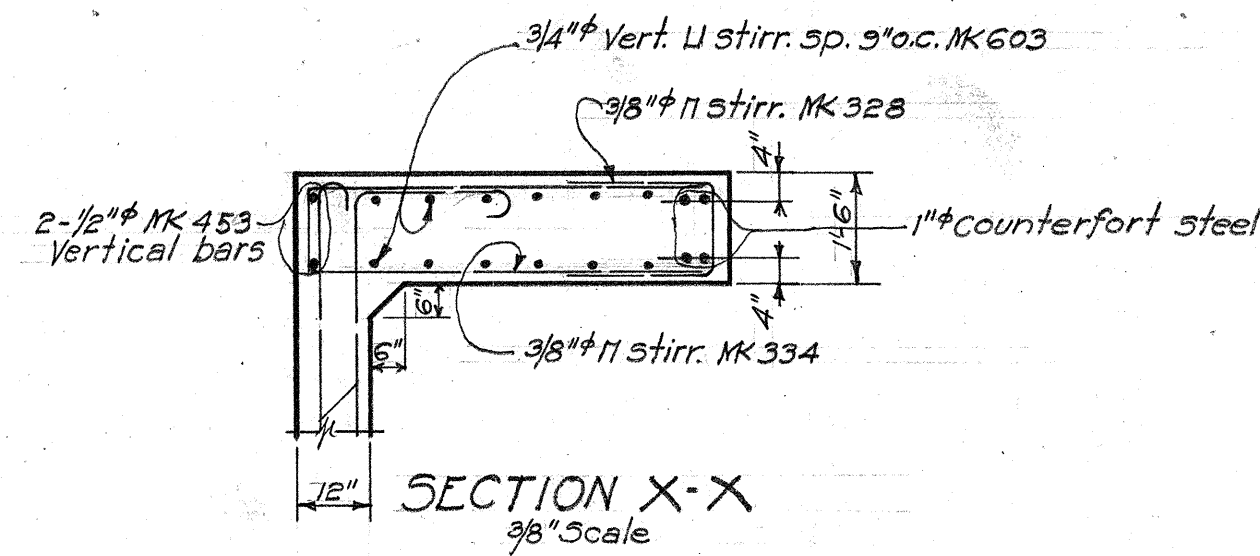


Revision - Winovall bars added
1/4/48a - 409-421a-422a

SURVEY PLOTTED BY	DATE
PLAN	12/1/39
TRACED BY	12/1/39
QUANTITIES CHECKED BY	12/1/39
NOTED BY	12/1/39
CHECKED BY	12/1/39

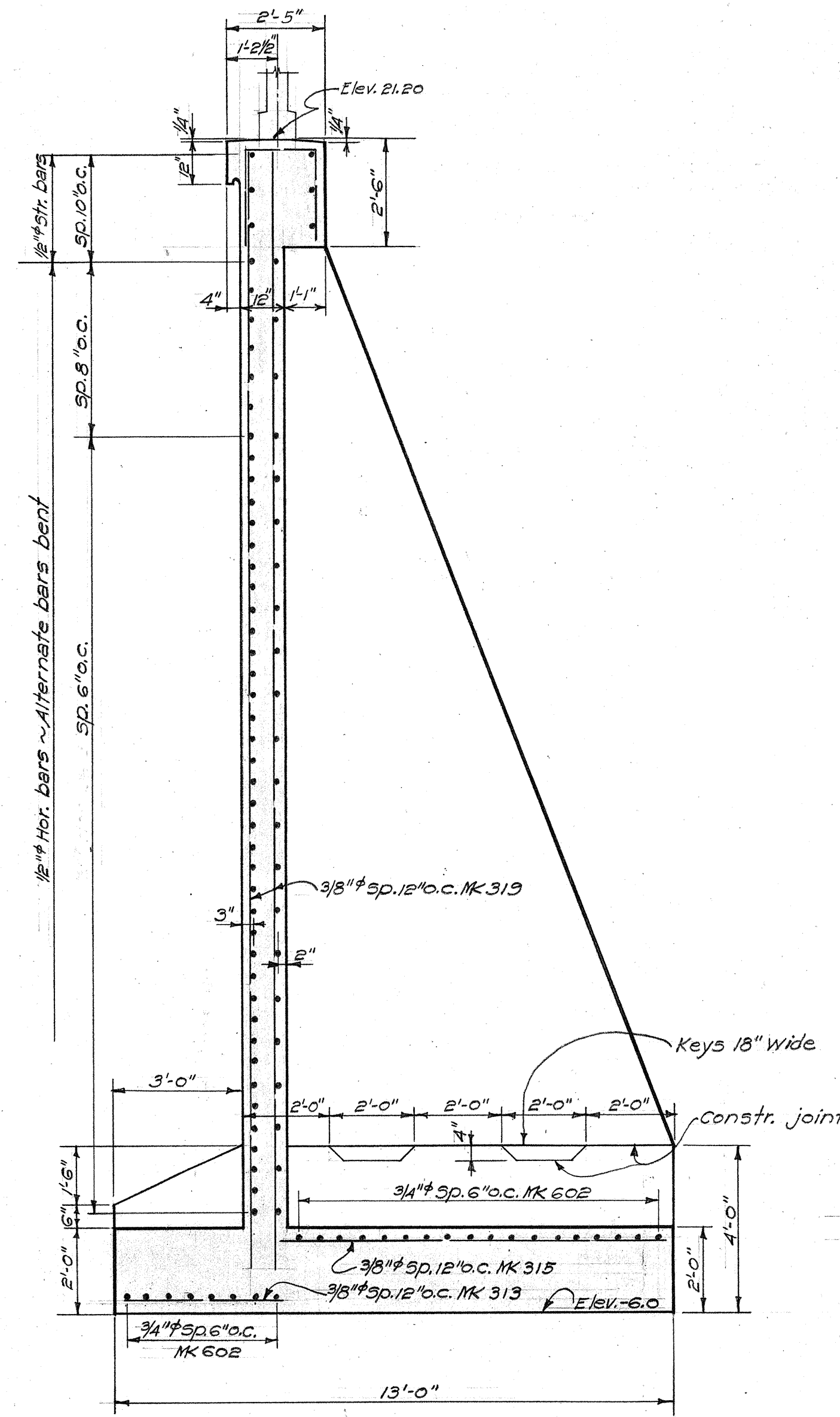
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
KAUKONAHUA BRIDGE
No. 20
STA. 33+51.18 TO STA. 34+66.12
WAIALUA-KAENA PT RD F.A.P. 35C(1)
DATE: DEC. 1938
SHEET No. 9 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	35-C(1)	1935	13	16

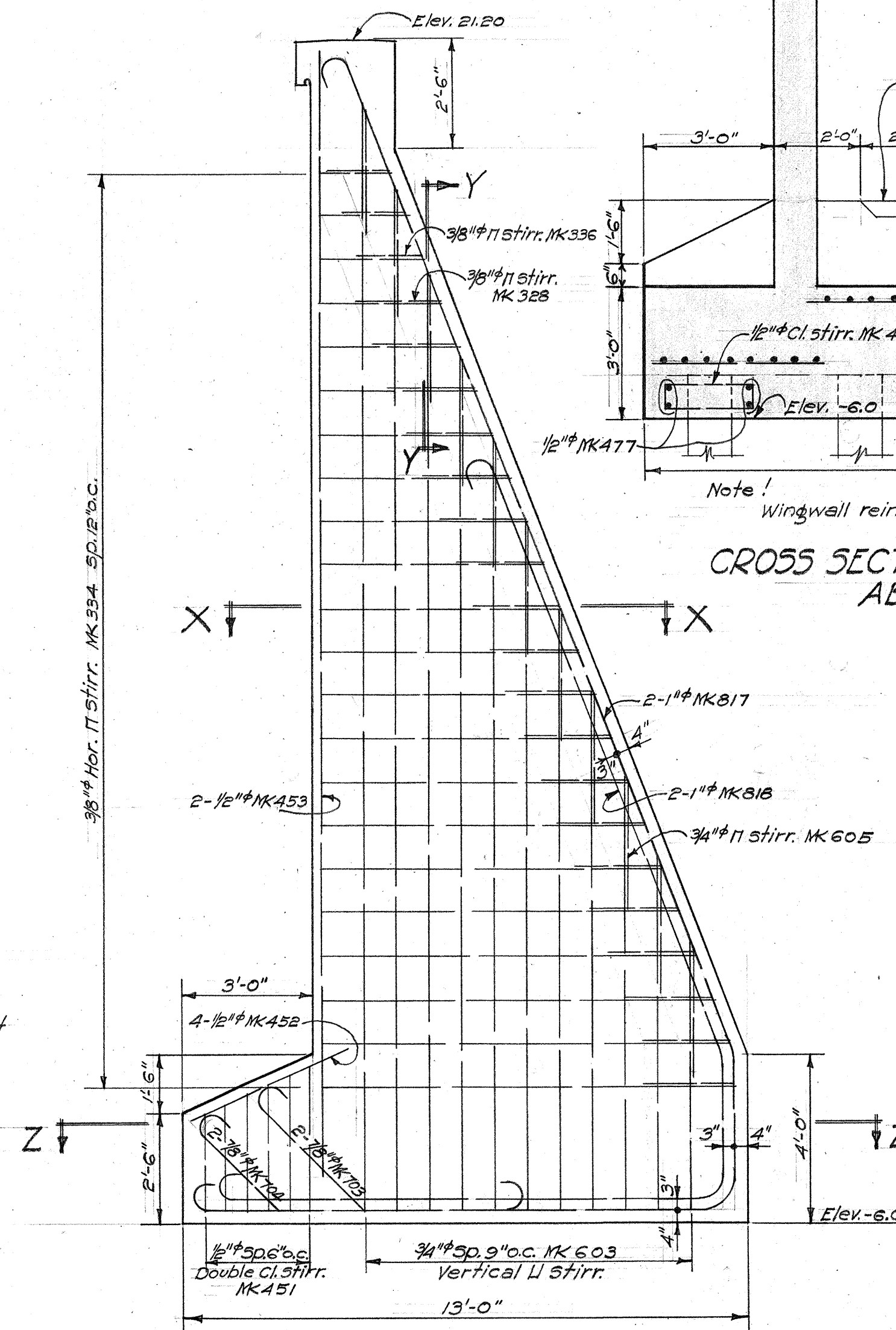


COUNTERFORT "B" ABUT. No. 2
3/8" Scale

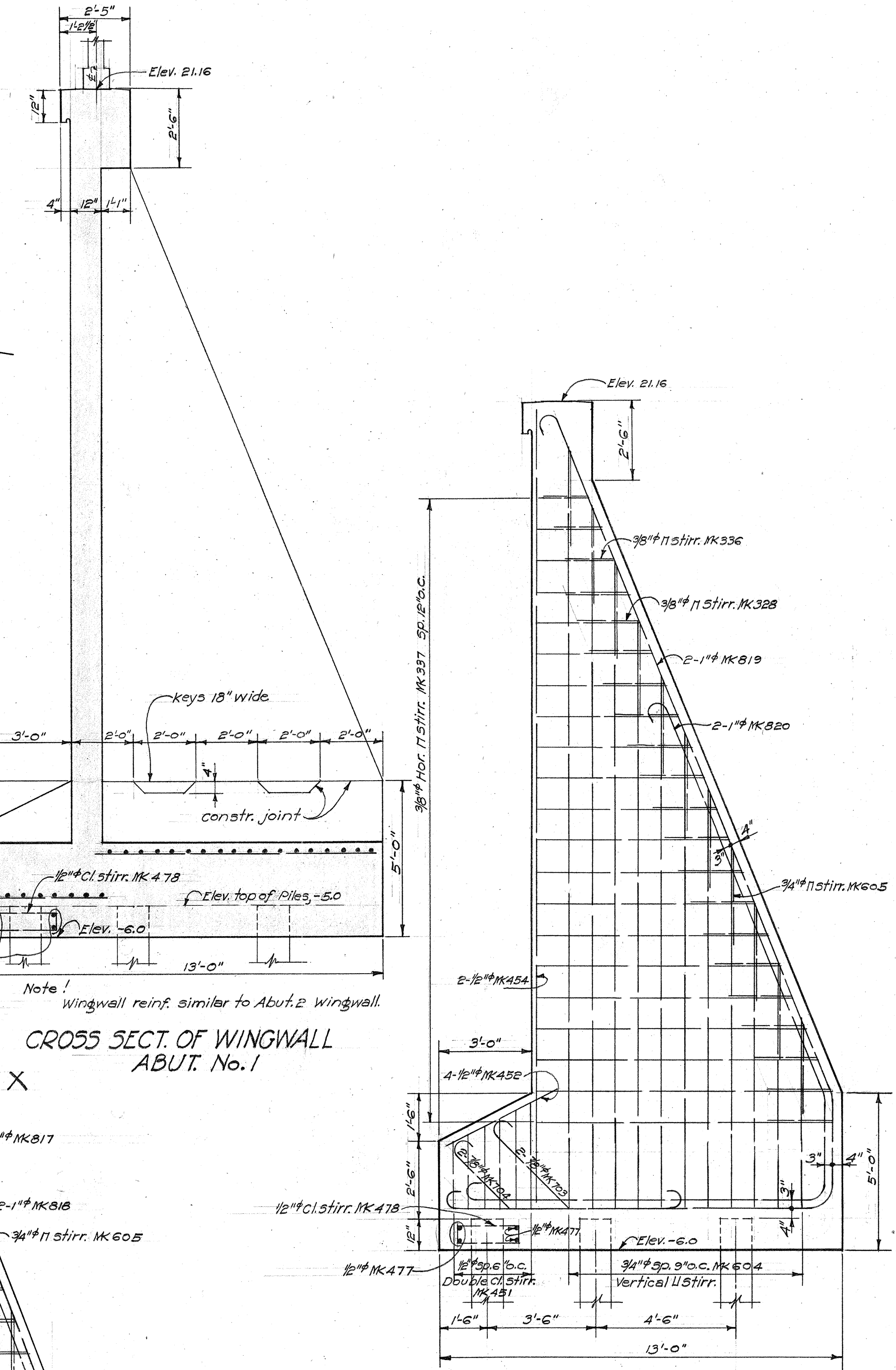
Note: General sectional details are similar to counterfort "A".



CROSS SECT. OF WINGWALL ABUT. No. 2
3/8" Scale



COUNTERFORT "C" ABUT. No. 2
3/8" Scale



CROSS SECT. OF WINGWALL ABUT. No. 1
3/8" Scale

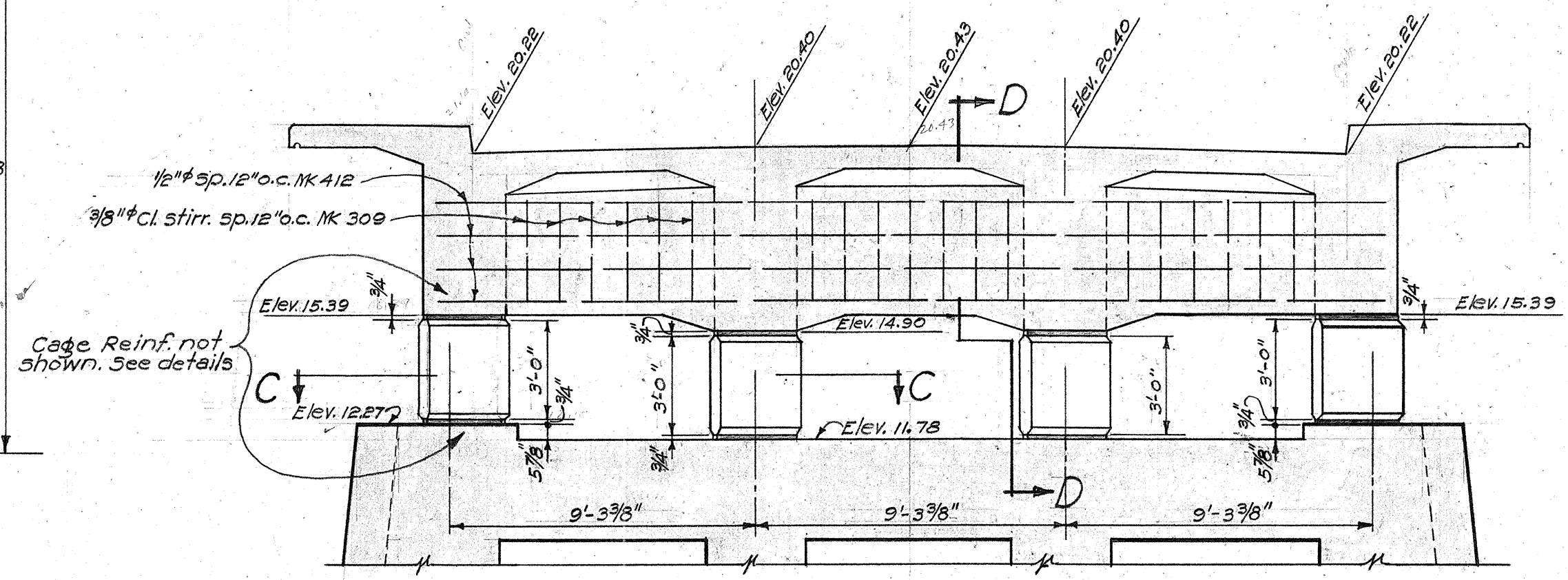
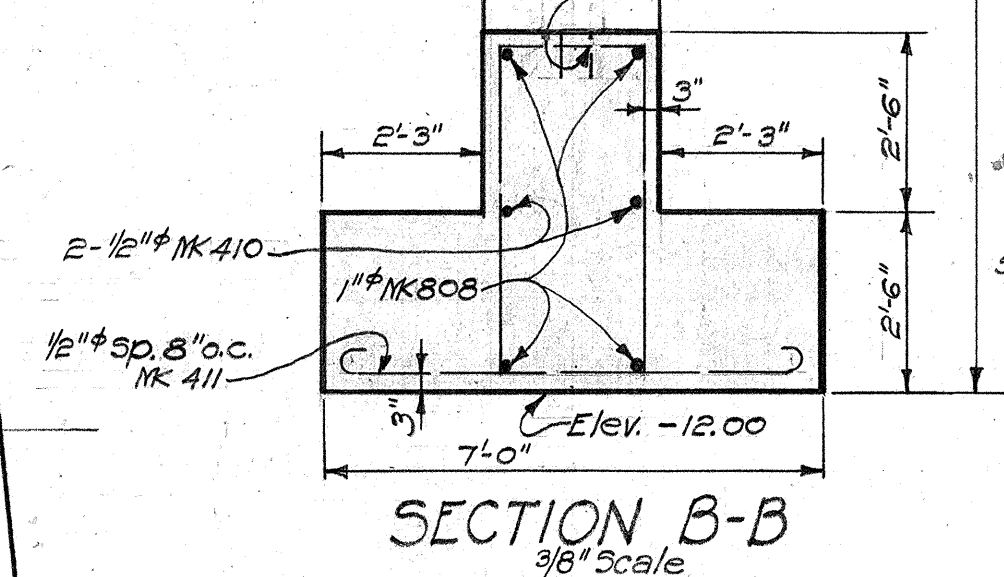
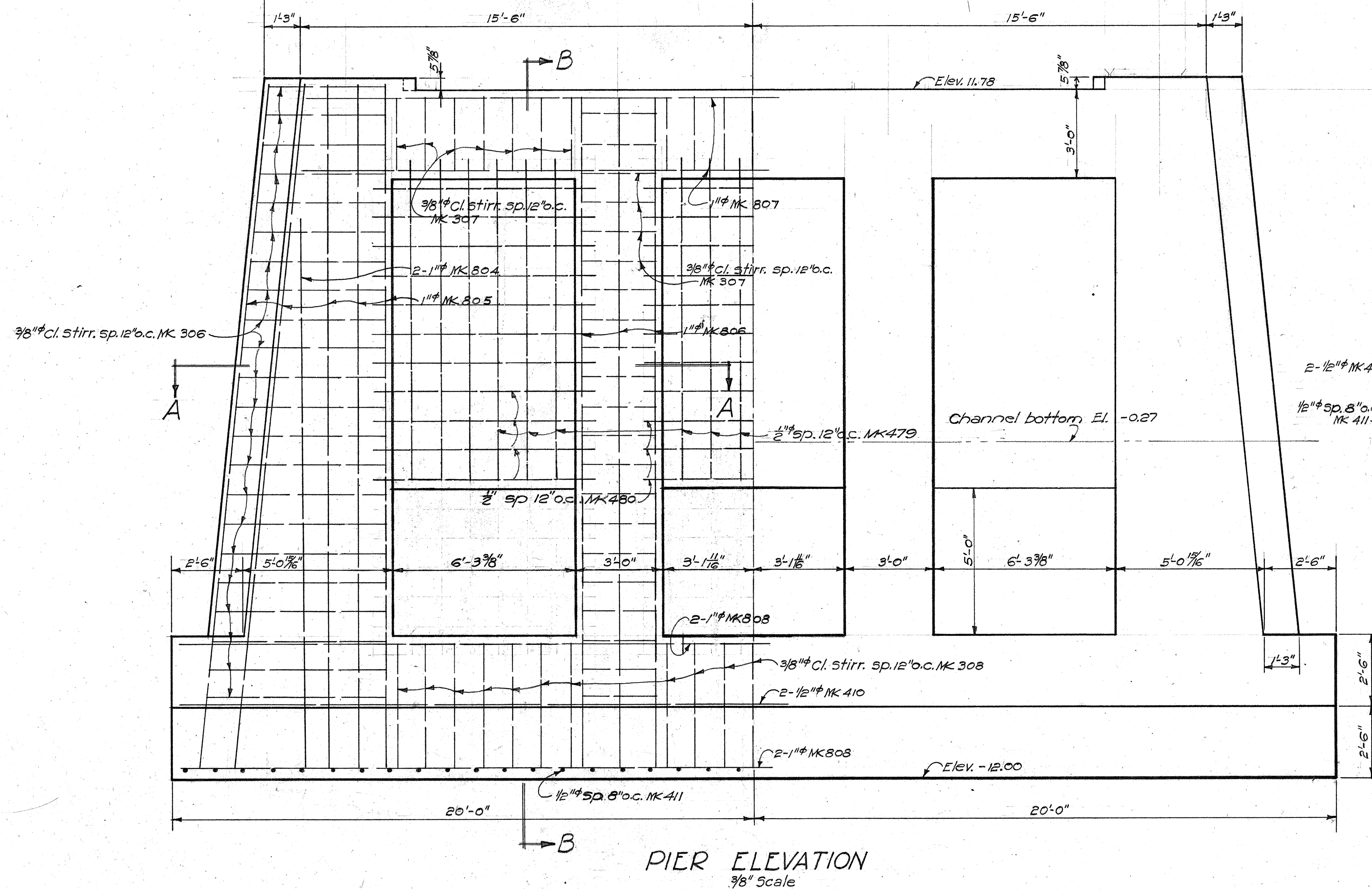
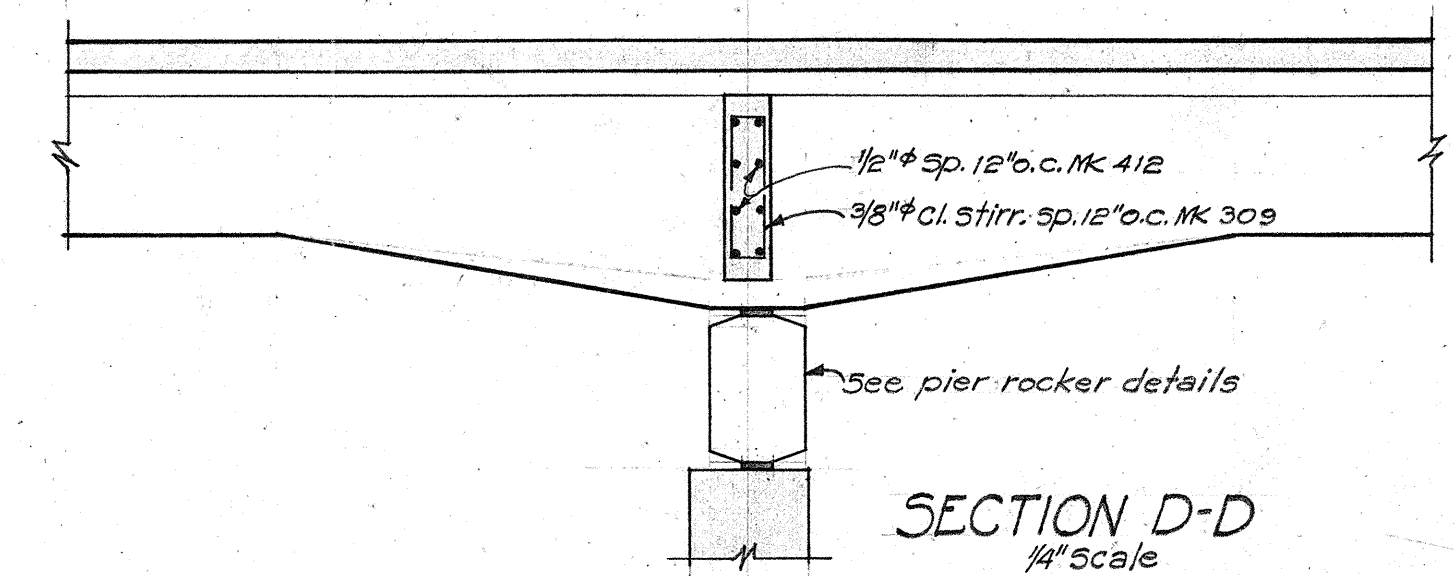
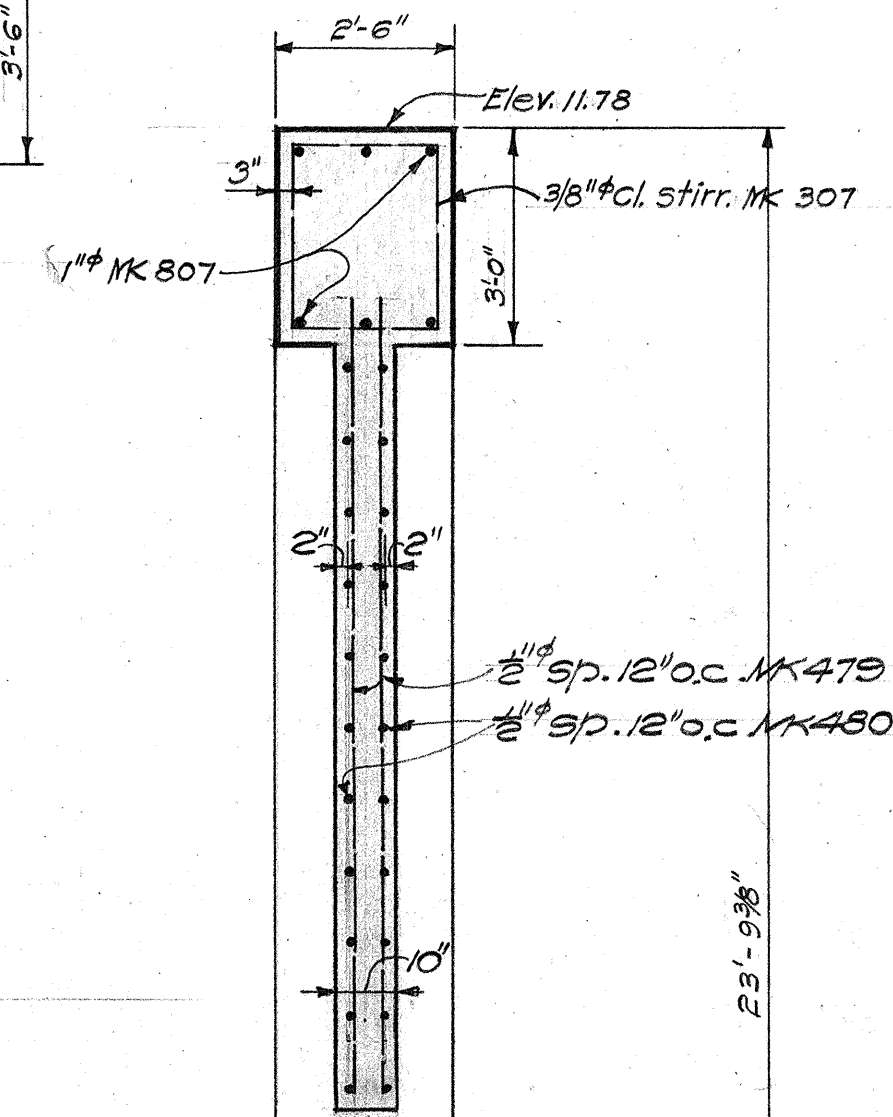
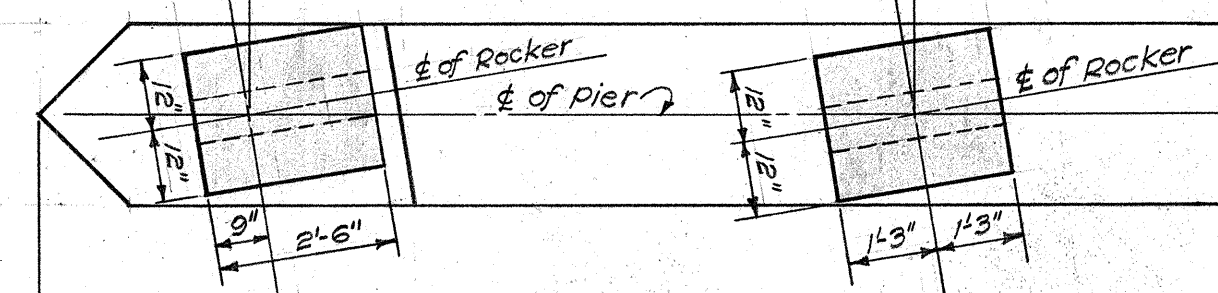
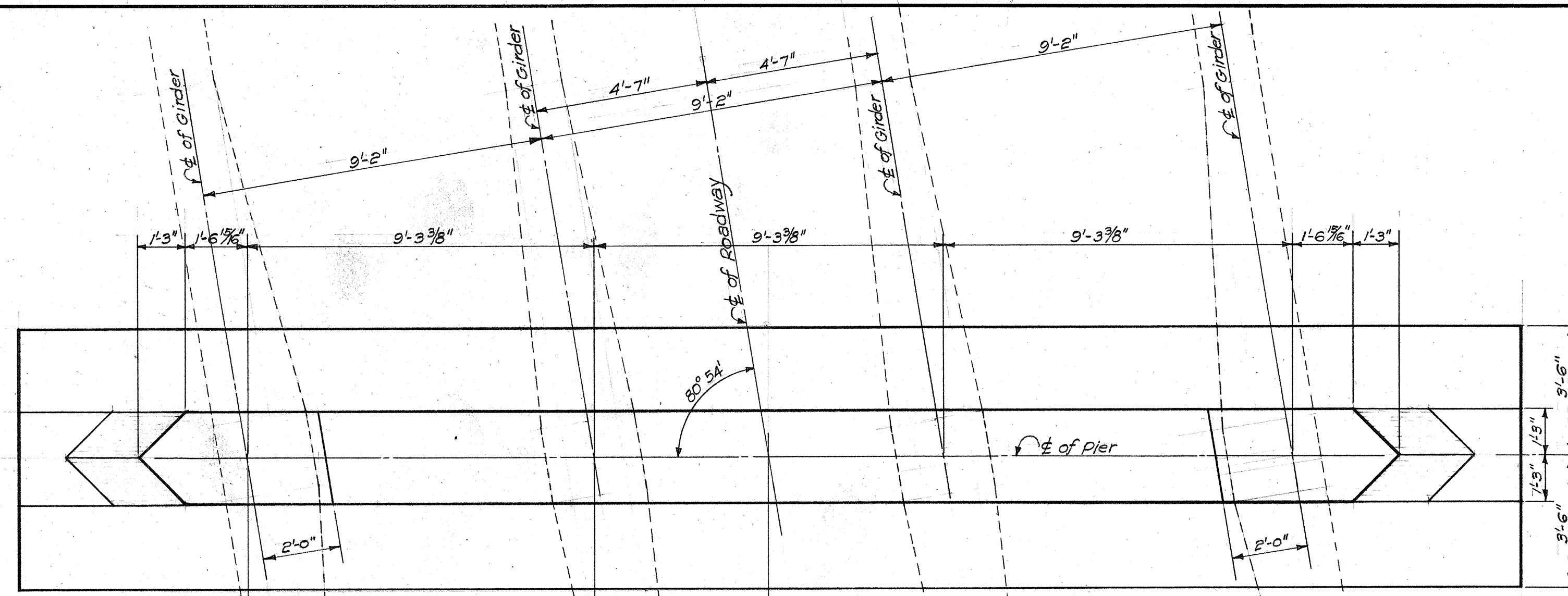
COUNTERFORT "D" ABUT. No. 1
3/8" Scale

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
KAUKONAHUA BRIDGE
No. 20
STA. 33+51.18 TO STA. 34+66.12
WAIALUA-KAENA PT RD F.A.P. 35C (1)
DATE: DEC. 1938
SHEET No. 10 OF 13 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	35-C(1)	1939	14	16

Revised 6-28-39

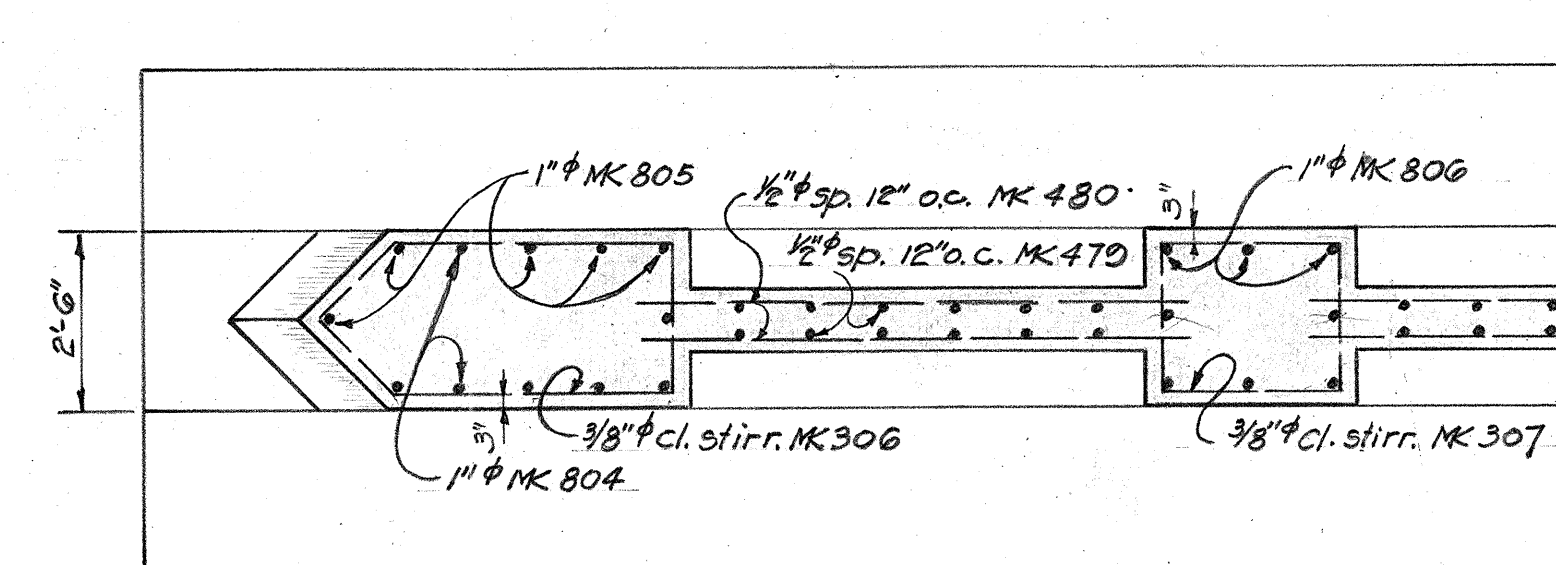
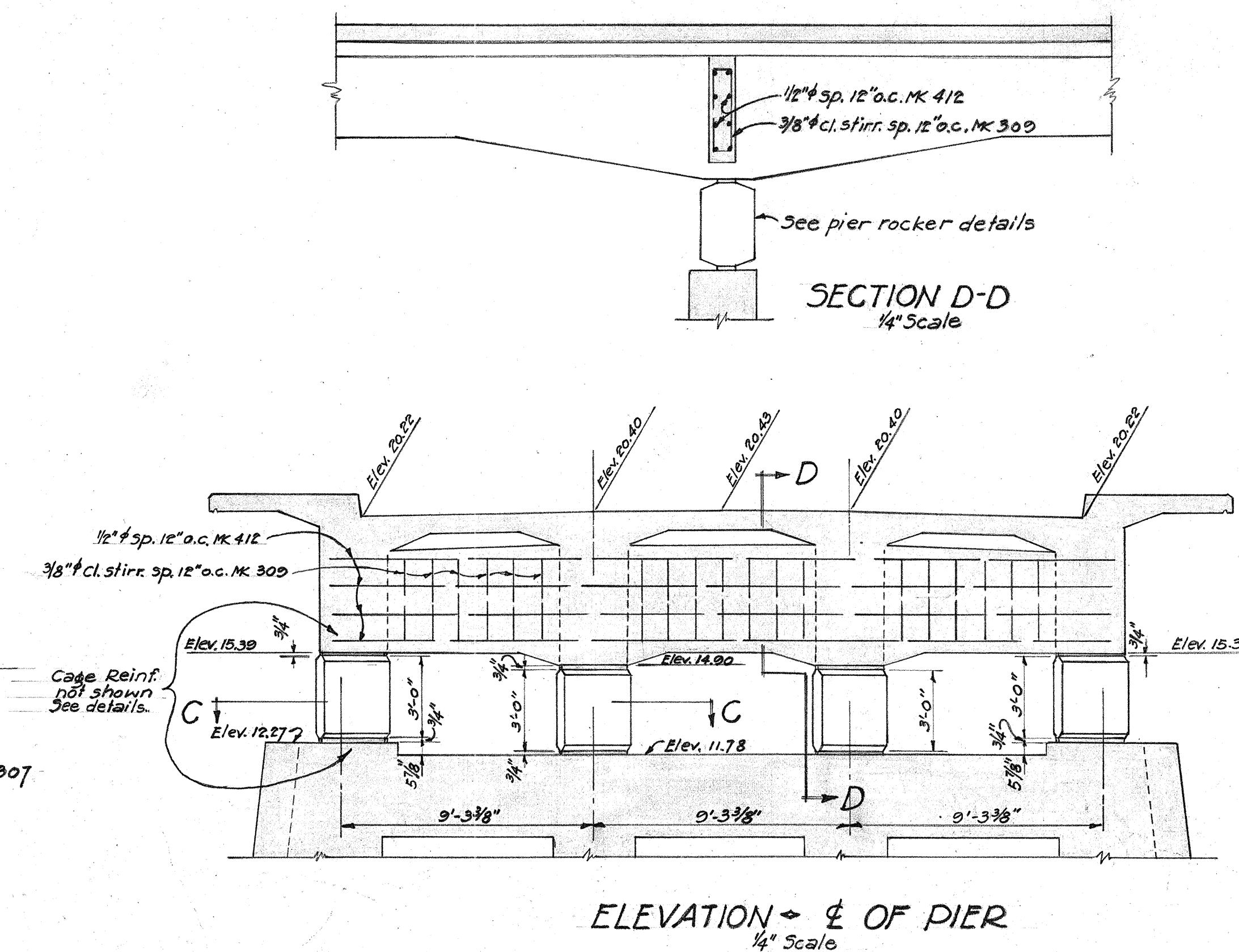
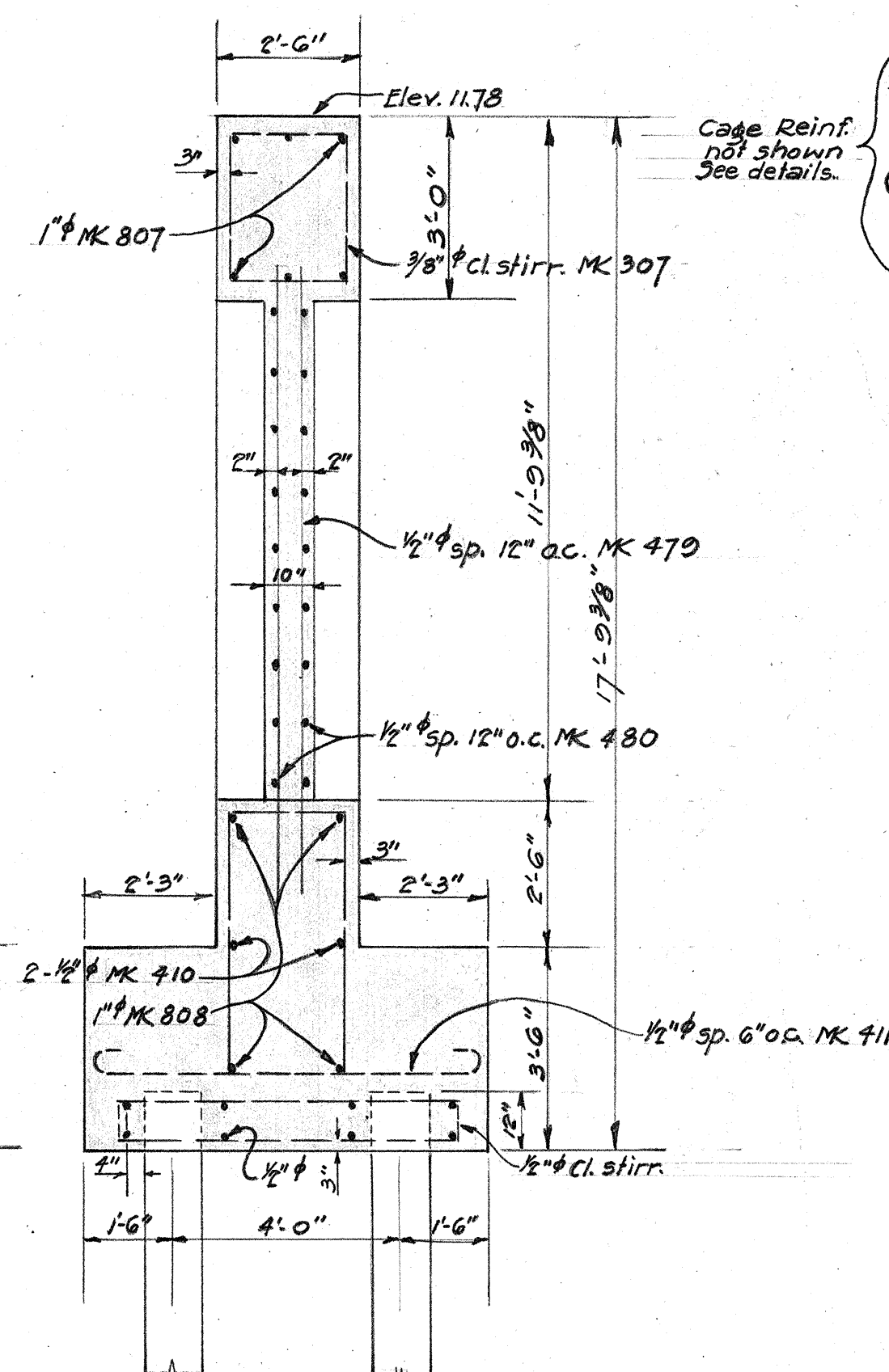
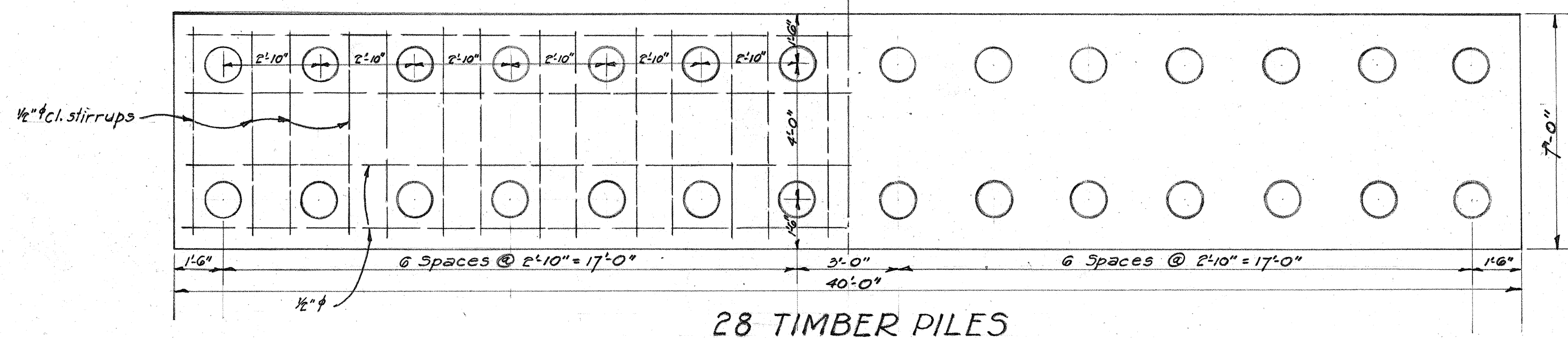
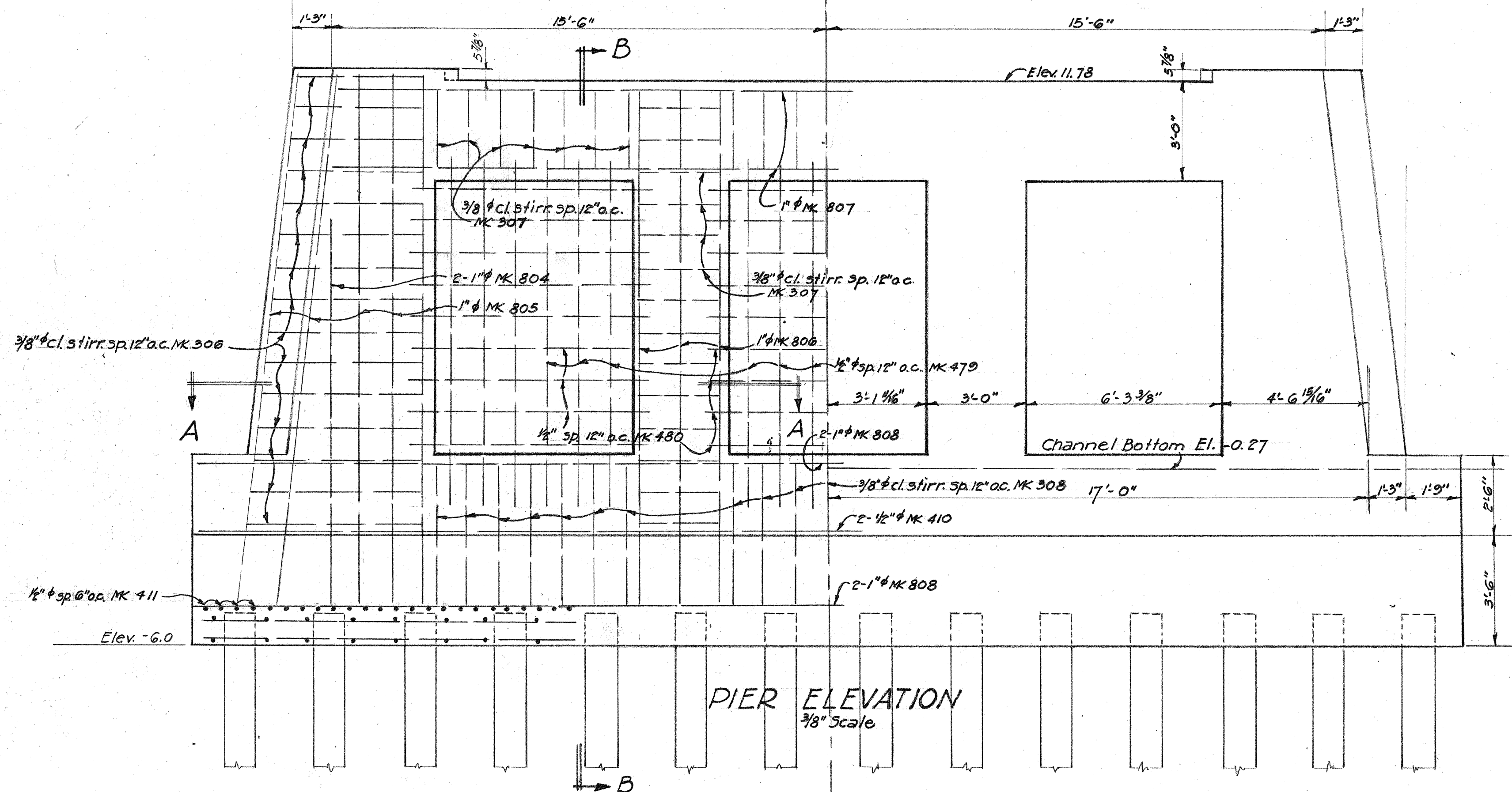
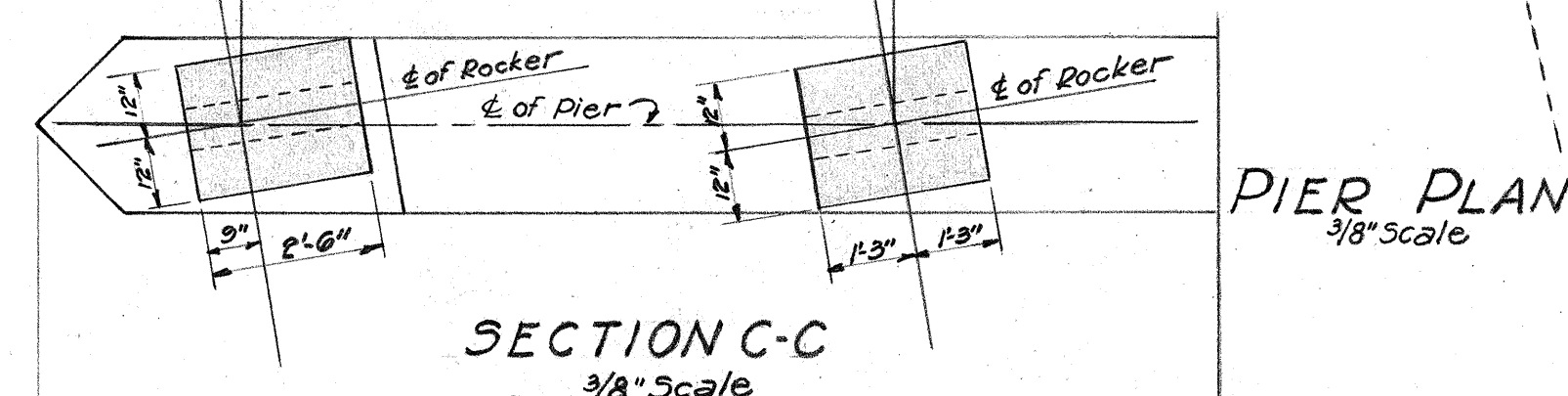
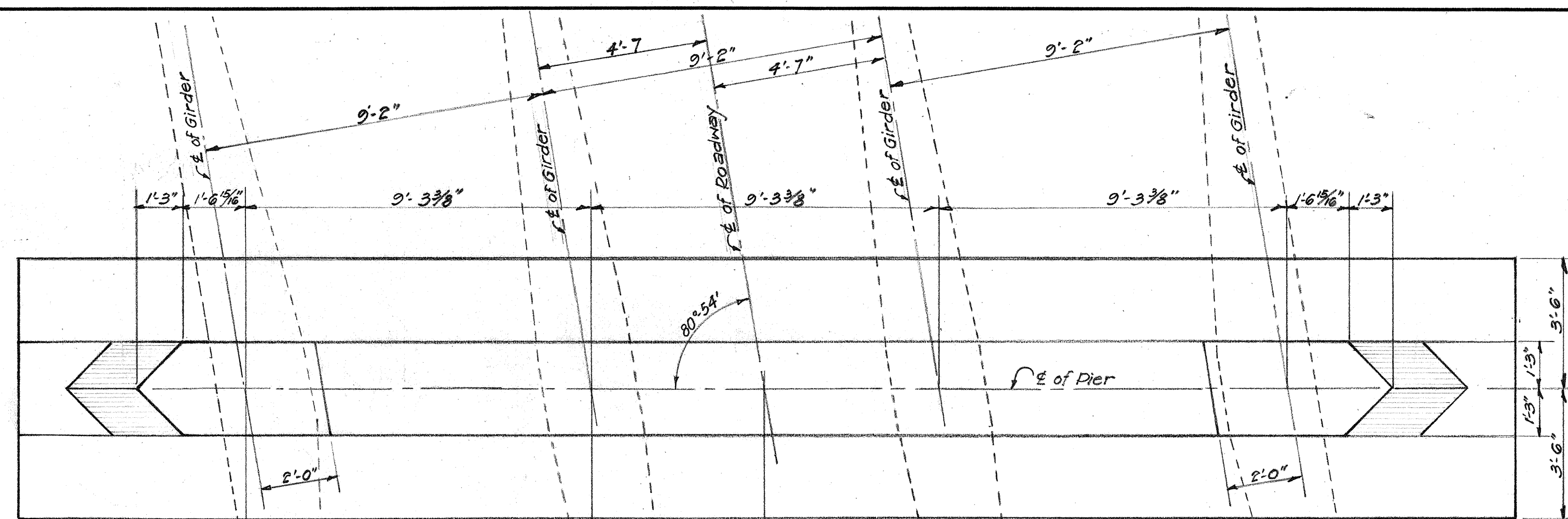
Revised Nov. 1940



Revision: Pier wall added.
Footing steel increased.
Second Revision: Spread Footing
changed to pile footing.
(See Sheet No. 5002.17 A)

ORIGINAL PLAN	SURVEY PLOTTED BY <i>W. R. Partridge</i>	DATE <i>Dec 1938</i>
	DESIGNED BY <i>P. K. King</i>	" "
	TRACED BY	" "
	QUANTITIES BY <i>S. E. Hart</i>	" " <i>Feb 1939</i>
NOTE BOOK	QUANTITIES CHECKED BY <i>P. Yamashita</i>	" " <i>"</i>
No.	CHECKED BY <i>W. R. S.</i>	" " <i>"</i>

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
KAUKONAHUA BRIDGE
No. 20
STA. 33+51.18 TO STA. 34+66.12
WAIALUA-KAENA PT RD F.A.P. 35C (1)
DATE: DEC. 1938
SHEET No. // OF 13 SHEETS

SECTION A-A
3/8" ScaleTERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

KAUKONAHUA BRIDGE

No. 20

STA. 33+51.18 TO STA. 34+66.12

WAIALUA-KAENA PI. RD. F.A.P. 35-C(1)

DATE:

SHEET No. 14 OF 13 SHEETS

BENDING SCHEDULE

This schedule is a supplement to the bending schedule sheets of this set of drawings.

NO.	DESCRIPTION	LOCATION	SIZE	LENGTH	No. of bars each unit	No. of units	Total No. of Bars	Total Length	Weight per foot	Total Weight
345		Superstr.	3/8"	5'-9"	5	1	5	28.8	0.38	11
461		"	1/2"	1'-5"	20	1	20	28.4	0.67	19
606		"	3/4"	4'-2"	8	1	8	33.4	1.50	50
346		Rocker	3/8"	50'-0"	1	1	1	50.0	0.38	19
347		"	3/8"	5'-8"	7	1	7	39.7	0.38	15
462		"	1/2"	2'-8"	4	1	4	10.7	0.67	7
463		"	1/2"	3'-2"	8	1	8	25.3	0.67	17
464		"	1/2"	3'-2"	8	1	8	25.3	0.67	17
465		"	1/2"	2'-2"	21	1	21	45.6	0.67	31
607		"	3/4"	2'-7"	6	1	6	15.5	1.50	23
608		"	3/4"	2'-10"	2	1	2	5.7	1.50	9
345	See previous sketch	Abut 2	3/8"	5'-9"	5	1	5	28.8	0.38	11
461	" " "	"	1/2"	1'-5"	20	1	20	28.4	0.67	19
606	" " "	"	3/4"	4'-2"	8	1	8	33.4	1.50	50

ADDITIONAL QUANTITIES TO BE ADDED TO BRIDGE QUANTITIES

CONCRETE

6.6 C.F. per rocker • Abut. 80# Superstr. 80# Rocker 138#

STEEL

NOTE! The above quantities are for 1 rocker complete and must be multiplied by the number of rockers to give the totals to be added to the quantities appearing on the steel schedule.

CONTRACTOR'S NOTE

All rockers for this bridge to be precast and to be made of class "E" concrete and paid for as class "A" conc. Max. size of coarse aggregate 3/4". special care must be taken in the selection of the aggregates and in placing the concrete so as to obtain conc. of maximum density. Regarding conc. below and above rockers refer to special provisions.

TERRITORIAL HIGHWAY DEPARTMENT

TERRITORY OF HAWAII

KAUKONAHUA BRIDGE

No. 20

STA. 33+51.18 TO STA. 34+66.12

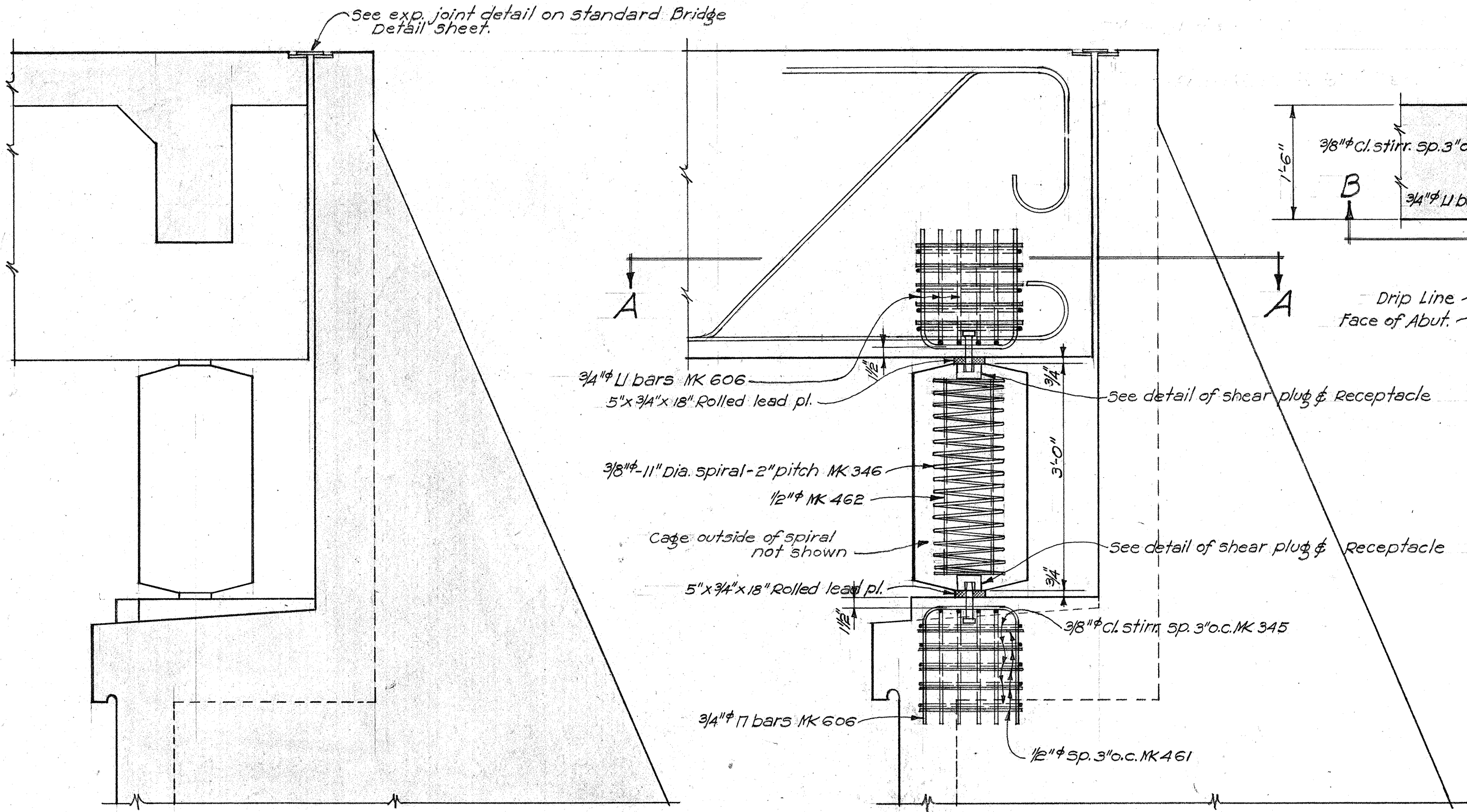
WAIALUA-KAENA PT RD F.A.P. 35C(1)

DATE: DEC. 1938

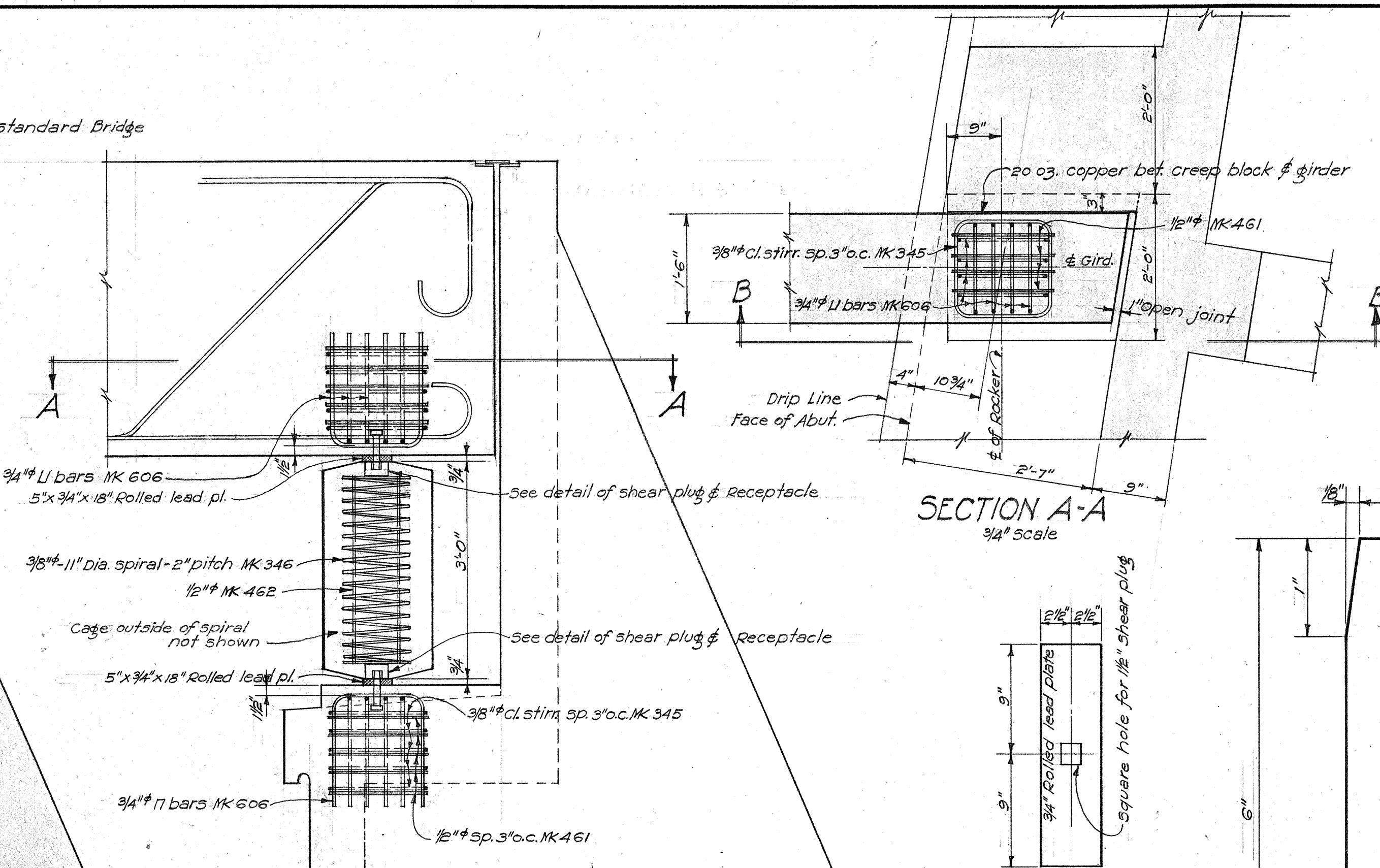
SHEET No 12 OF 13 SHEETS

5002.15

3002.15

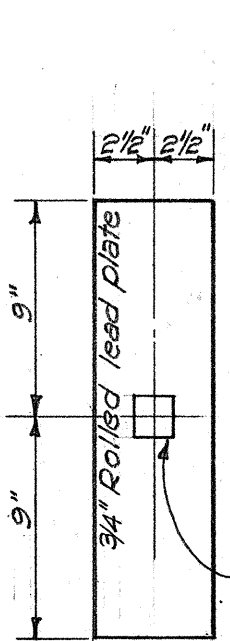


SECTION B-B
3/4" Scale

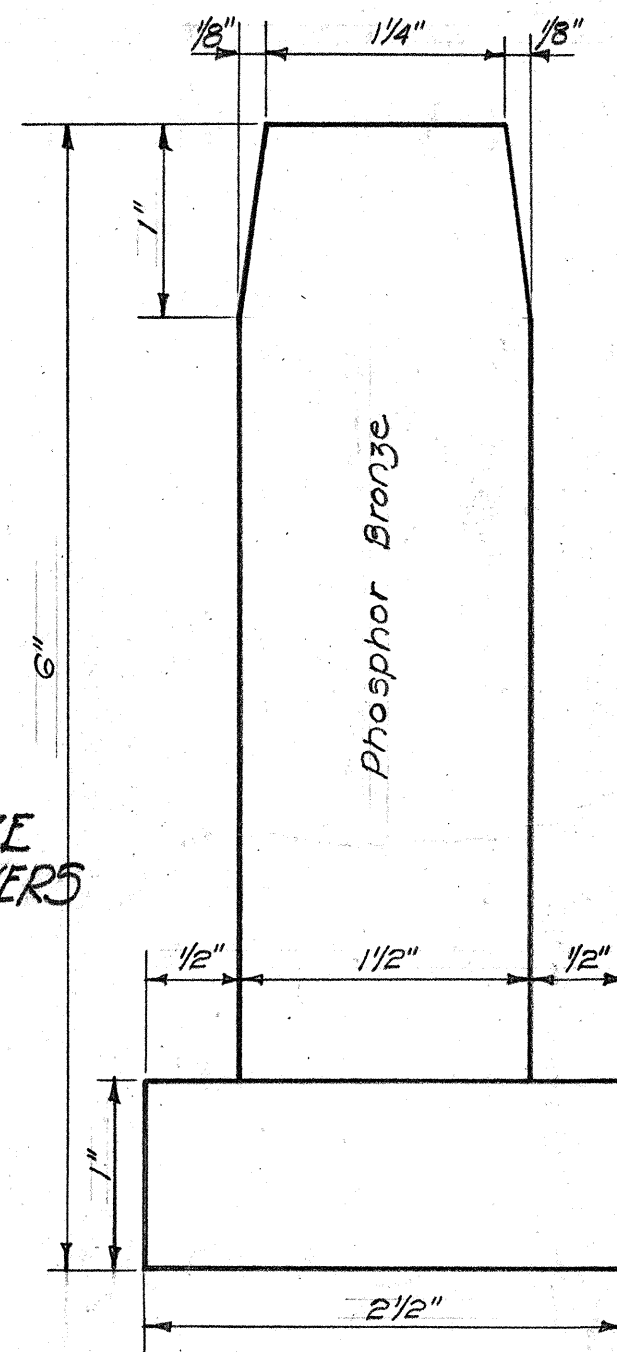


SECTION A-A
3/4" Scale

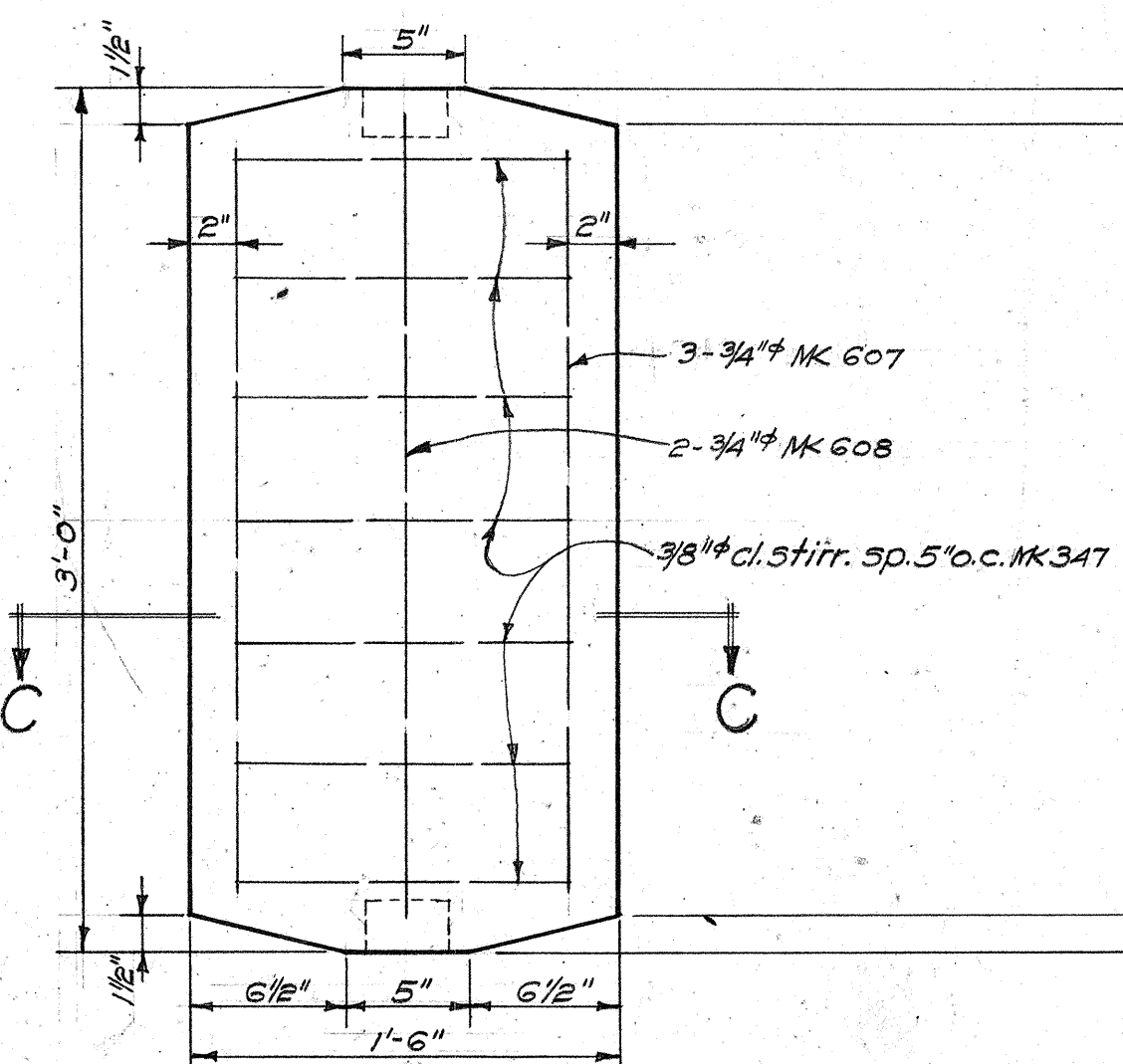
SECTION THRU & OF INTERIOR GIRDER ABUT. No. 2
3/4" Scale



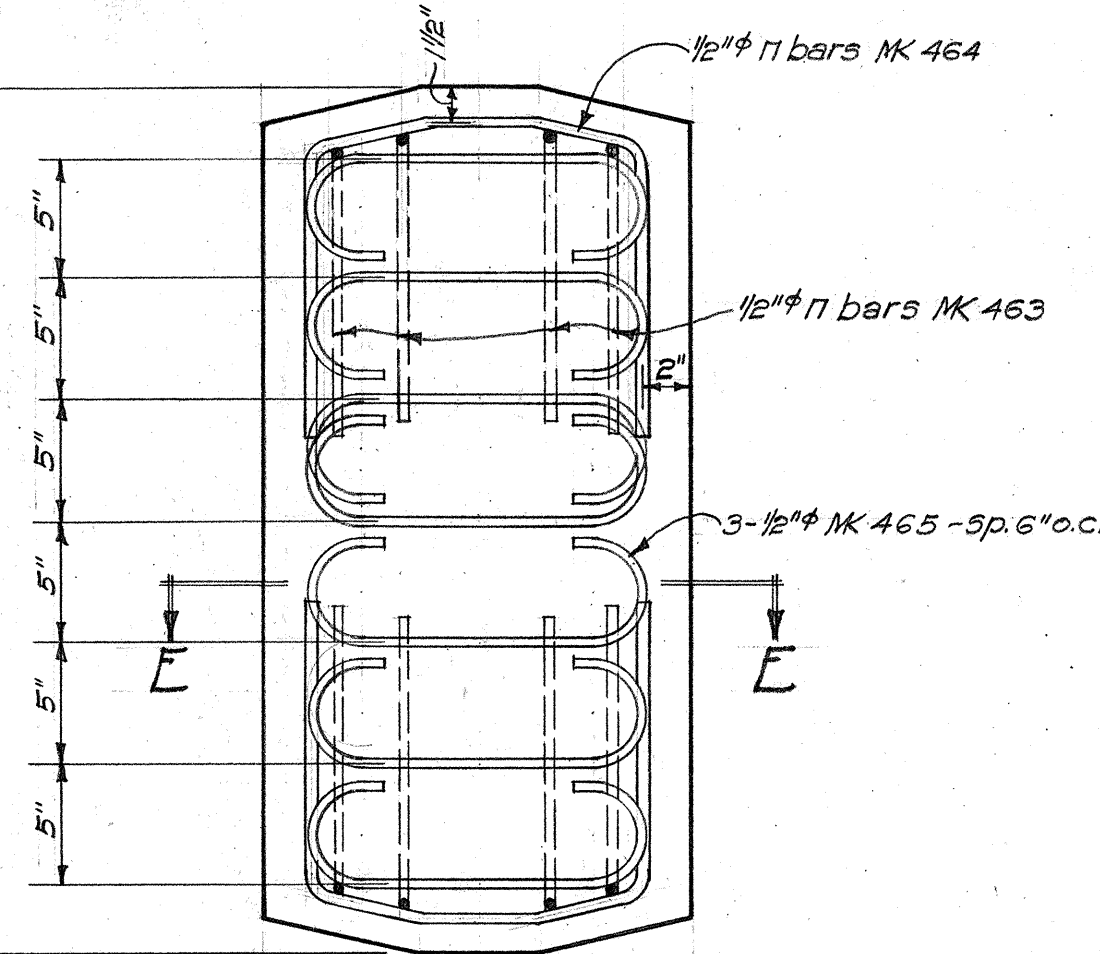
DETAIL OF LEAD PLATE FOR ABUT. No. 2 ROCKERS
3/4" Scale



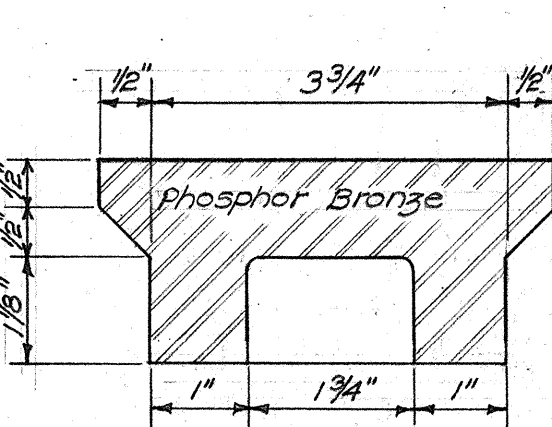
DETAIL OF SHEAR PLUG



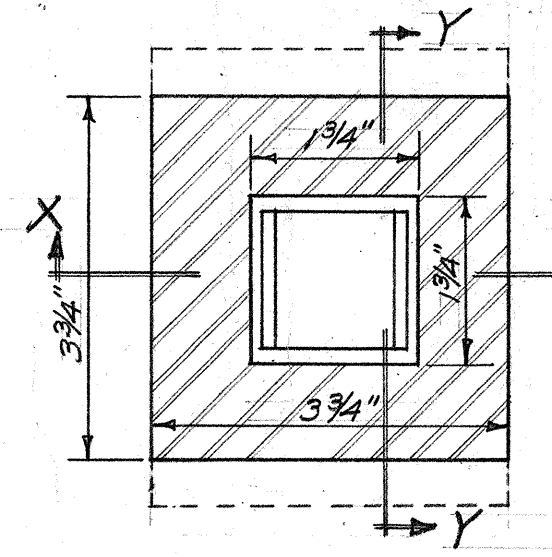
ELEV. ABUT. No. 2 ROCKER
1 1/2" Scale



SEC. D-D
1 1/2" Scale

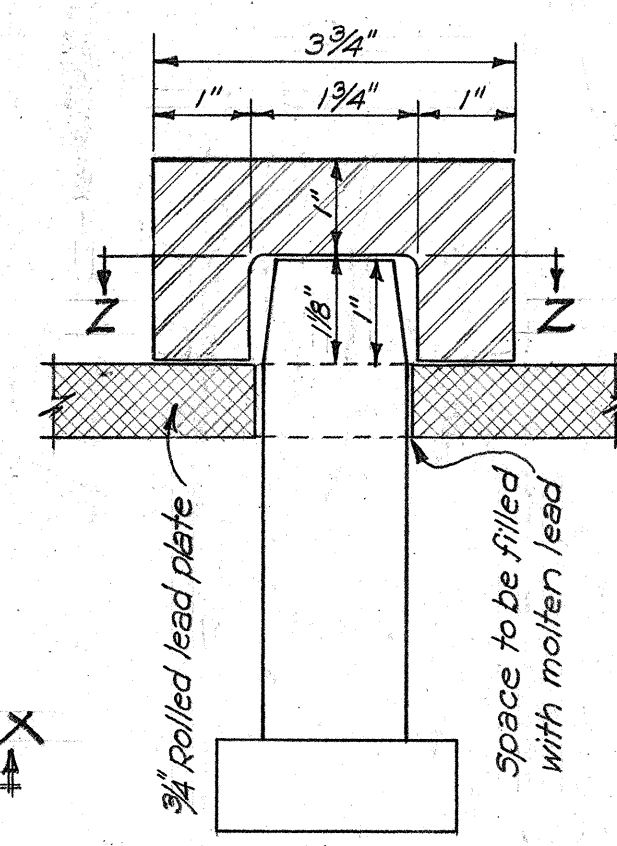


SEC. Y-Y

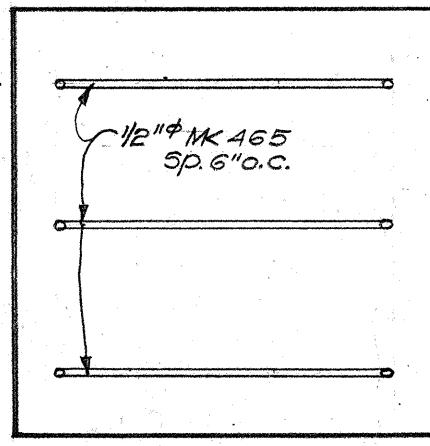


SEC. Z-Z

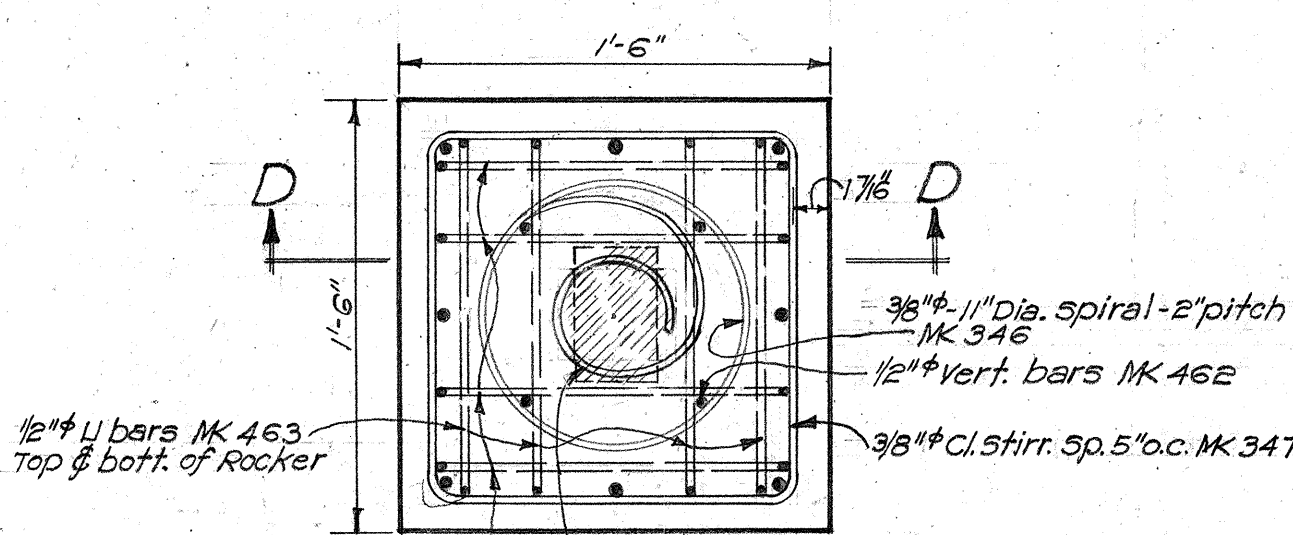
DETAILS OF SHEAR PLUG RECEPTACLE
Half size scale



SEC. X-X



SEC. E-E



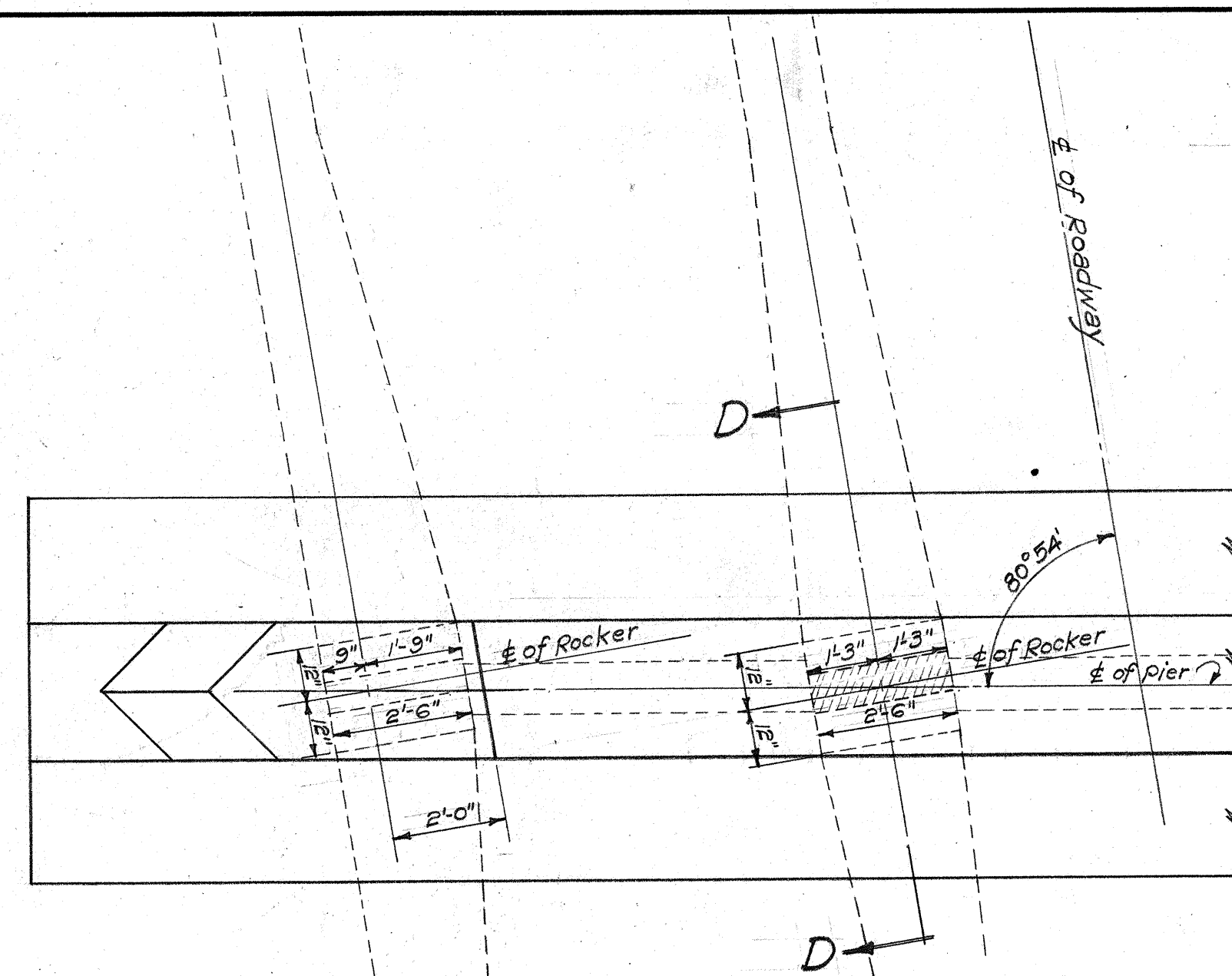
SECTION C-C
1 1/2" Scale

PLAN - TOP & BOTT. OF ROCKER
1 1/2" Scale

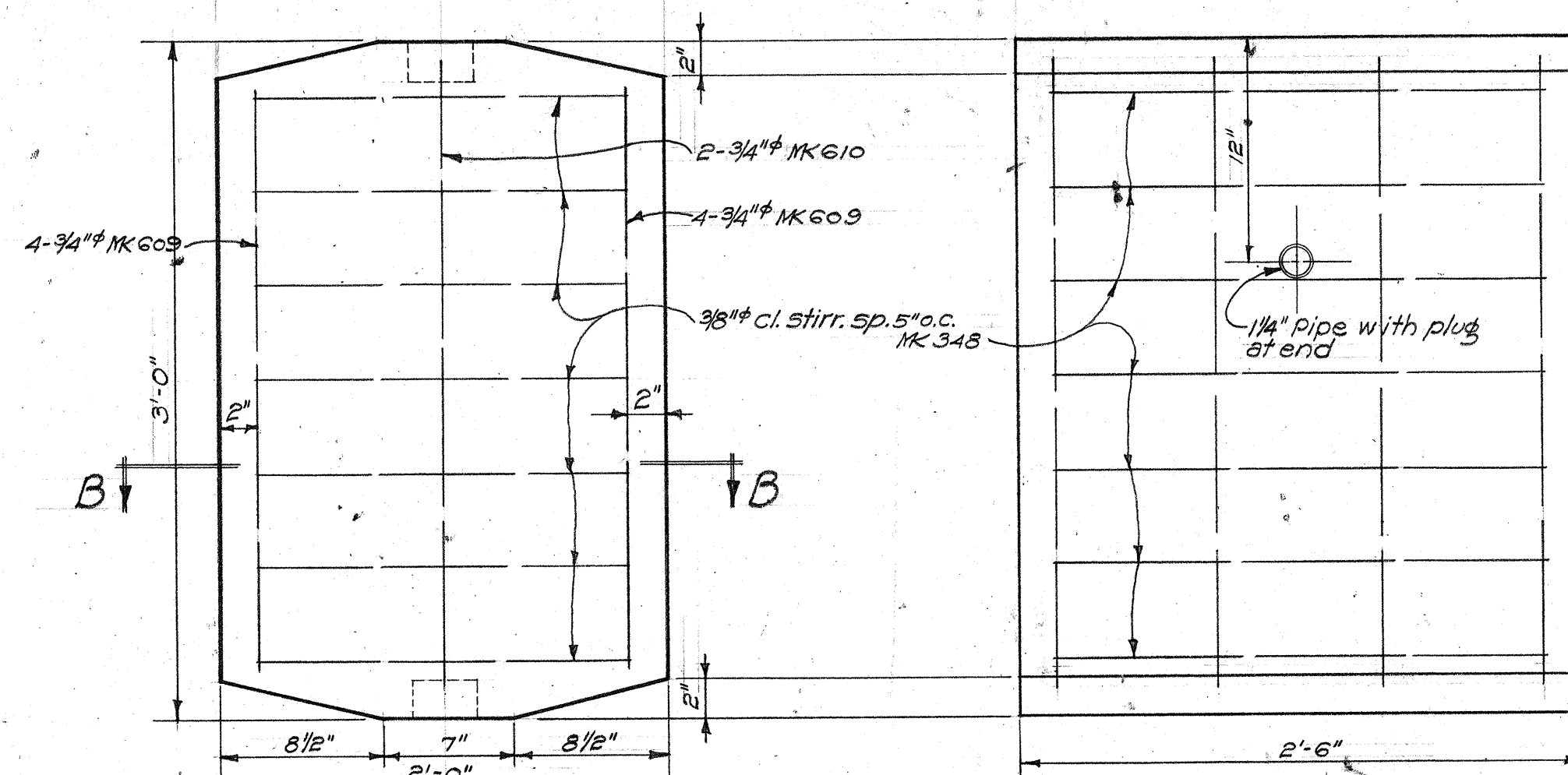
Note! MK 465 not shown.

SURVEY PLOTTED BY	DATE
DRAWN BY	DEC. 1938
TRACED BY	
QUANTITIES CHECKED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

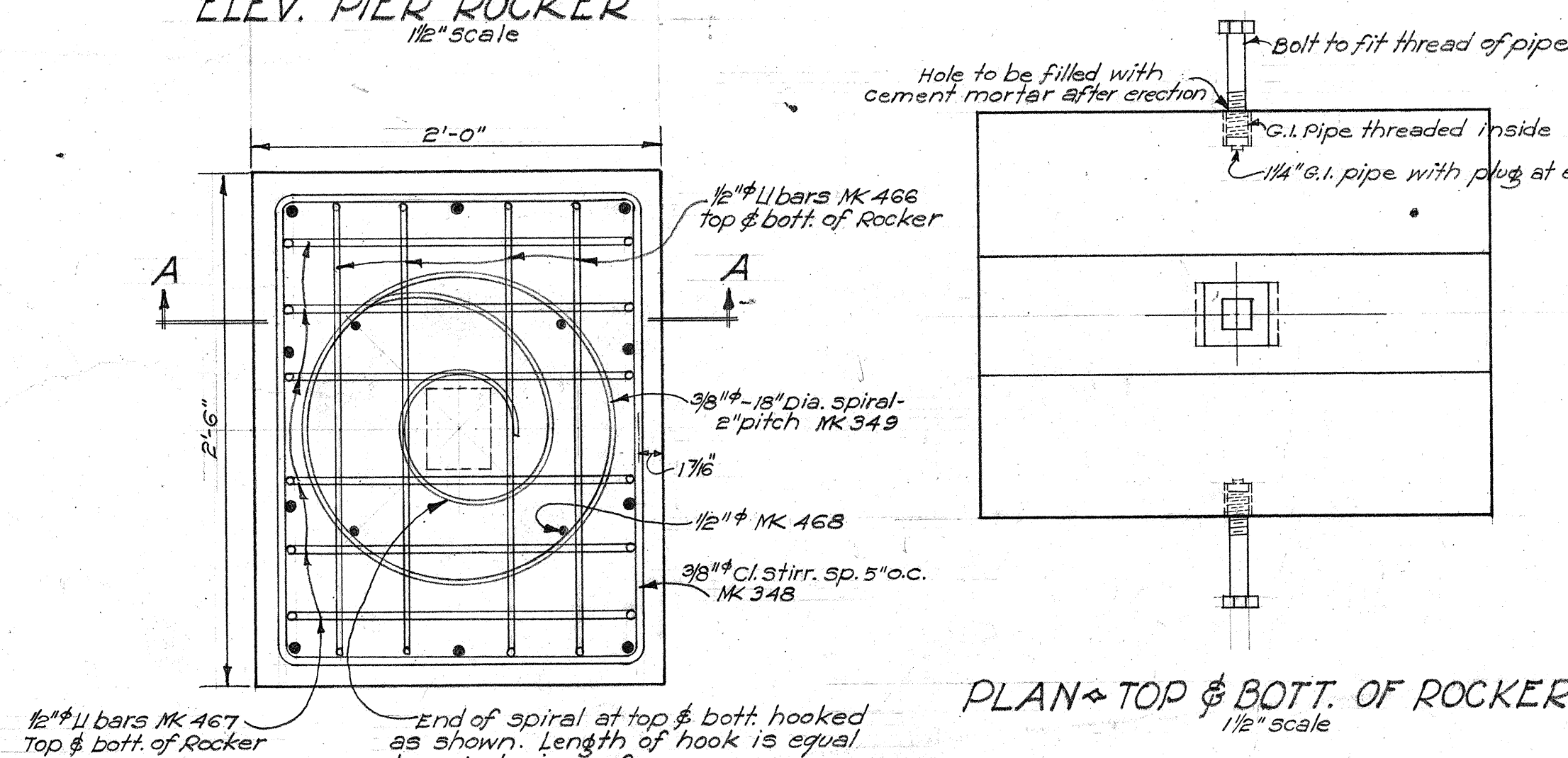
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW	35-C(1)	1933	16	16



PART PIER PLAN SHOWING
LOCATION OF ROCKERS
3/8" Scale



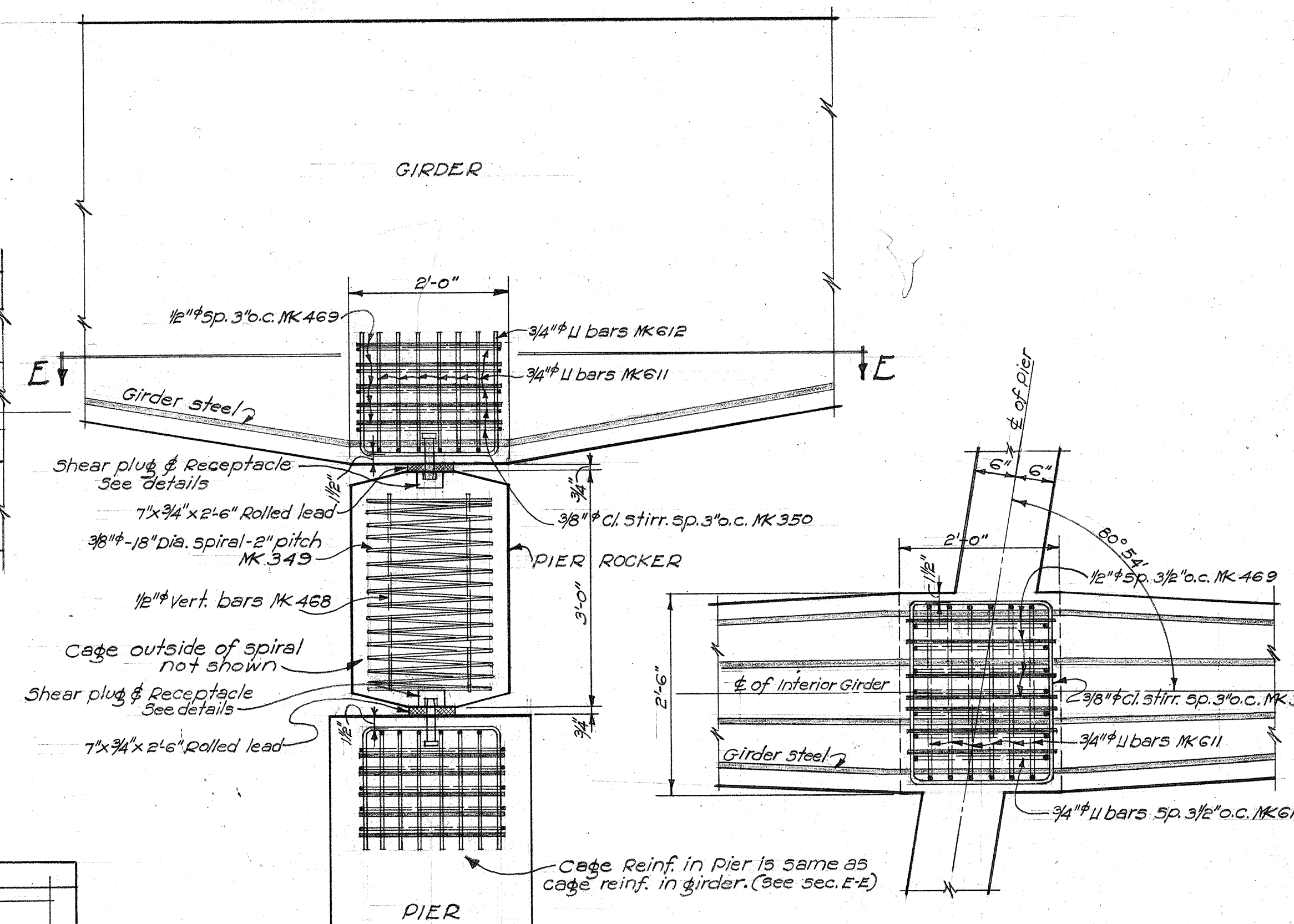
ELEV. PIER ROCKER
1/2" Scale



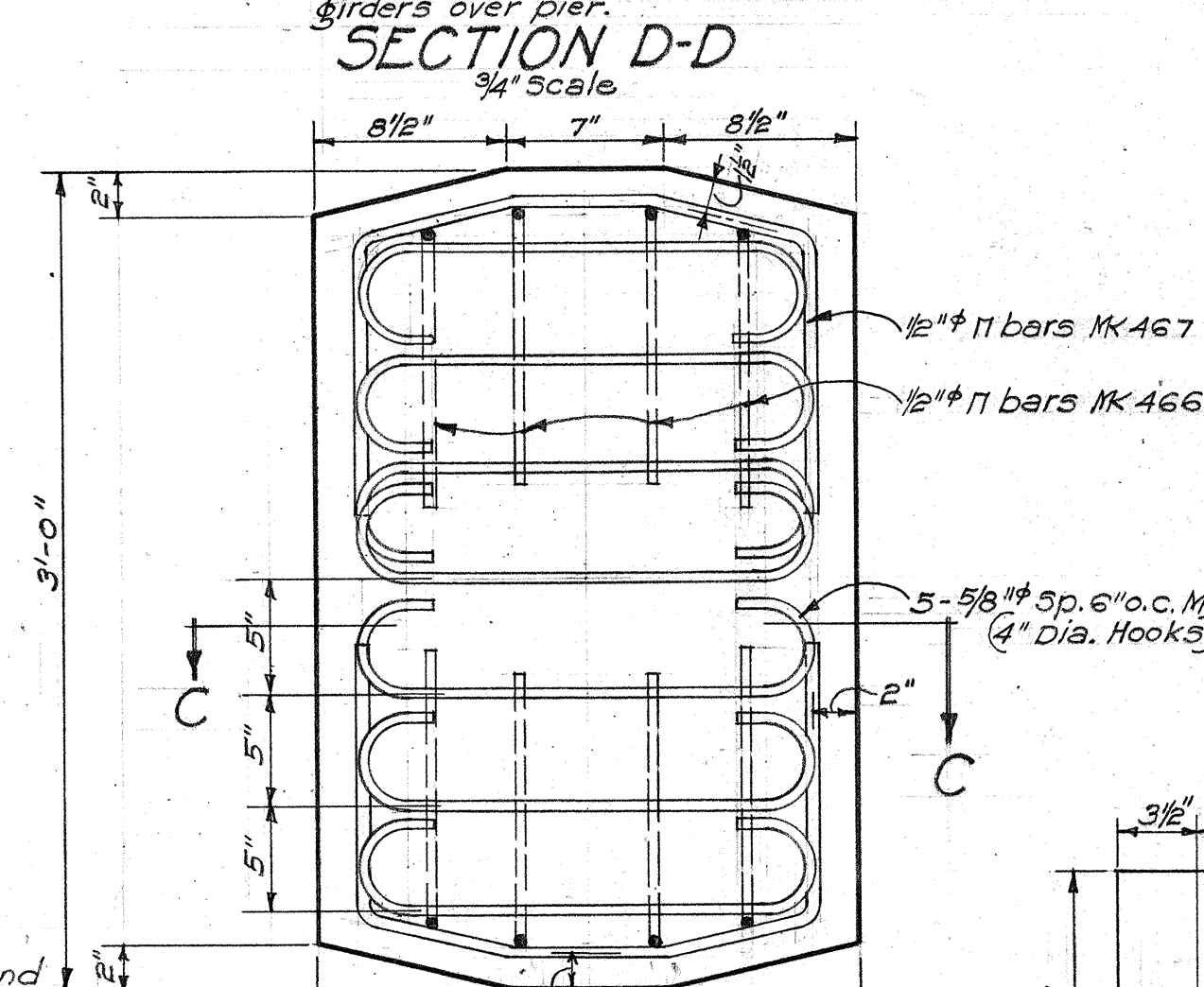
PLAN - TOP & BOT. OF ROCKER
1/2" Scale

SEC. B-B
1/2" Scale

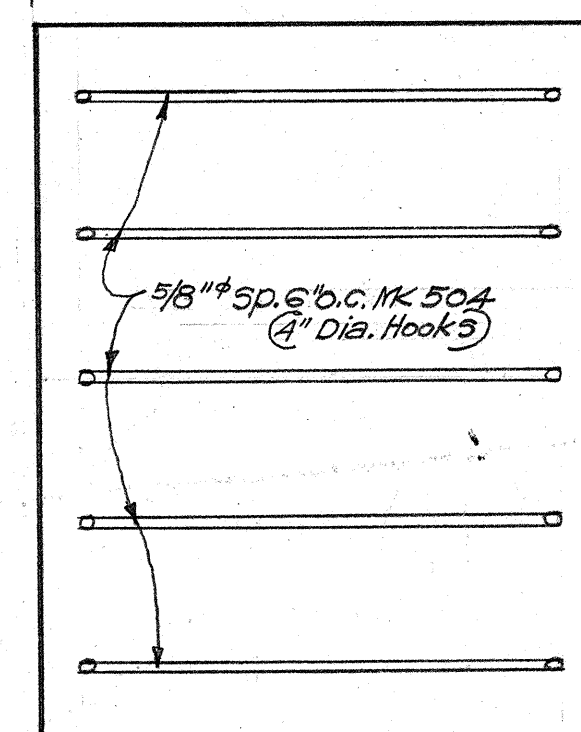
Note! MK 504 not shown.



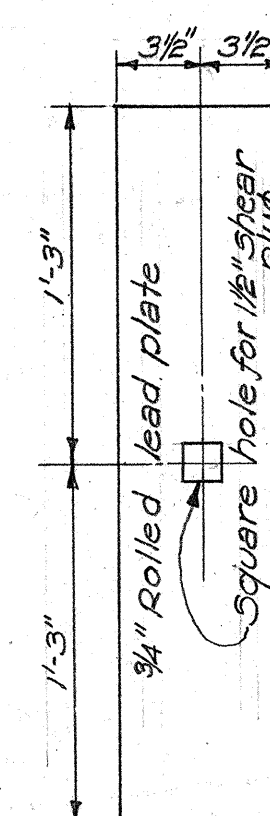
SECTION E-E
3/4" Scale



SEC. A-A
1/2" Scale



SEC. C-C
1/2" Scale



DETAIL OF LEAD PL. FOR PIER ROCKERS

BENDING SCHEDULE

This schedule is a supplement to the bending schedule sheets of this set of drawings.

NO.	DESCRIPTION	LOCATION	SIZE	LENGTH	No. of bars each unit	No. of Units	Total No. of Bars	Total Length	Wt. Per Foot	Total Weight
350	1'-8 1/2" inside dimen.	Superstr.	3/8"	8'-9"	5	1	5	43.8	0.38	17
469	1'-10" inside dimen.	"	1/2"	1'-10"	35	1	35	64.1	0.67	43
611	2'-1" inside dimen.	"	3/4"	5'-0"	6	1	6	30.0	1.50	45
612	1'-8" inside dimen.	"	3/4"	4'-8"	7	1	7	32.7	1.50	49
348	2'-3" inside dimen.	Rocker	3/8"	8'-8"	7	1	7	60.7	0.38	23
349	15" dia. 2'-5" length of hook 4'-8 1/2" 2" pitch	"	3/8"	75'-0"	1	1	1	75.0	0.38	29
466	1'-0" 2'-2 1/2" inside dimen.	"	1/2"	4'-2"	8	1	8	33.3	0.67	22
467	1'-0" 7" 6" 7" inside dimen.	"	1/2"	3'-8"	12	1	12	44.1	0.67	30
468	2'-6" inside dimen.	"	1/2"	2'-6"	4	1	4	10.0	0.67	7
504	8" 2'-6" 2'-6" 1'-4" inside dimen.	"	5/8"	2'-8"	35	1	35	93.5	1.04	97
609	2'-7" inside dimen.	"	3/4"	2'-7"	8	1	8	20.7	1.50	31
610	2'-10" inside dimen.	"	3/4"	2'-10"	2	1	2	5.7	1.50	9
350	See previous sketch	Pier	3/8"	8'-9"	5	1	5	43.8	0.38	17
469	"	"	1/2"	1'-10"	35	1	35	64.1	0.67	43
611	"	"	3/4"	5'-0"	6	1	6	30.0	1.50	45
612	"	"	3/4"	4'-8"	7	1	7	32.7	1.50	49

ADDITIONAL QUANTITIES TO BE ADDED TO BRIDGE QUANTITIES

CONCRETE

14.4 c.f. per rocker

STEEL

Superst 154# Rocker 248# Pier 154#

Note! The above quantities are for 1 rocker complete and must be multiplied by the number of rockers to give the totals to be added to the quantities appearing on the steel schedule.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

KAUKONAHUA BRIDGE

No. 20

STA. 33+51.18 TO STA. 34+66.12

WAIALUA-KAENA PT RD F.A.P. 35C(1)

DATE: DEC. 1933

SHEET No 13 OF 13 SHEETS

5002.16

5002.16