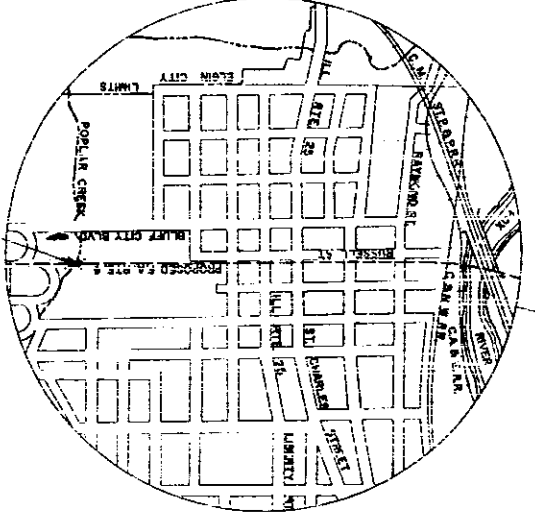
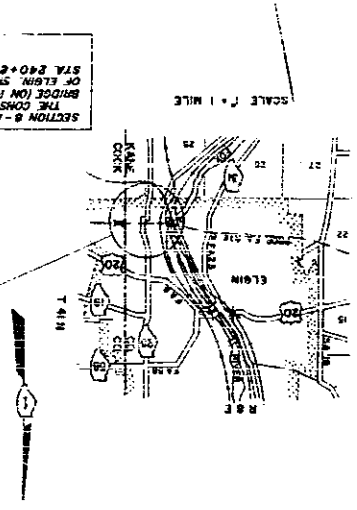


STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS  
 DIVISION OF HIGHWAYS  
 PLANS FOR PROPOSED  
 FEDERAL AID HIGHWAY

F.A. ROUTE 6  
 SECTION 8-RB-1  
 COOK COUNTY  
 PROJECT U-613(3)

COOK COUNTY  
 PROJECT U-613(3)

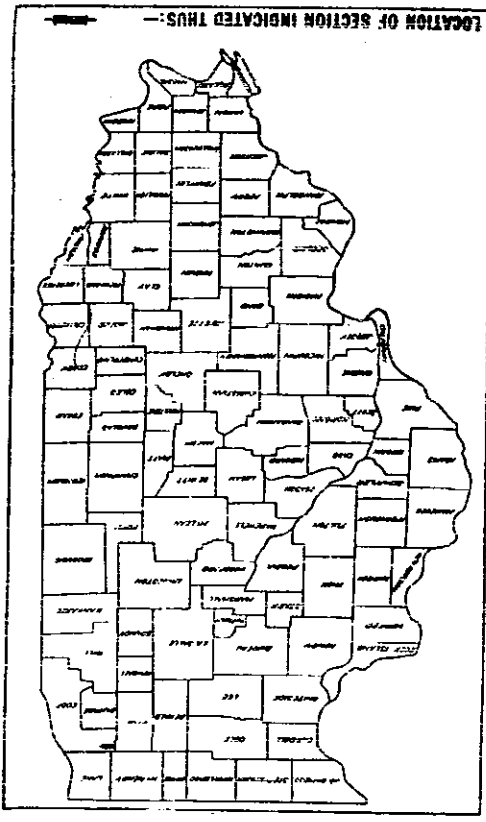
SCALES  
 PROFILE VIEW 1 INCH = 20 FEET  
 PLAN VIEW 1 INCH = 10 FEET



SCALE 1" = 100 FEET  
 NET LENGTH OF IMPROVEMENT - 119.00 FEET (0.22 MILES)

APPROVED  
 DIVISION ENGINEER  
 DEPARTMENT OF COMMERCE  
 BUREAU OF PUBLIC ROADS  
 DATE

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS  
 DIVISION OF HIGHWAYS  
 PROJECT U-613(3)  
 F.A. ROUTE 6, SECTION 8-RB-1  
 COOK COUNTY



PROJECT	U-613(3)
SECTION	8-RB-1
COUNTY	COOK
TOWNSHIP	15
SECTION	1

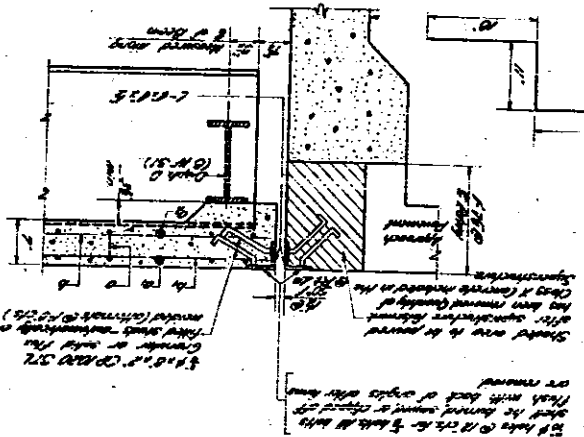
016-0217



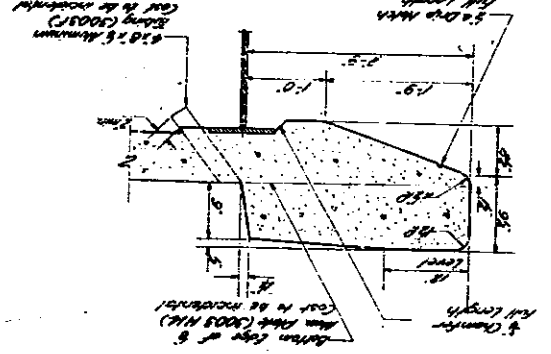
**SUPERSTRUCTURE**  
**PA. 6 - Sec. 8-89-1**  
**COOK COUNTY**  
**SYMBOL 240 + 83.50**

Bar No.	Size	Length	Shape
1	1/2"	10'-0"	Rect.
2	1/2"	10'-0"	Rect.
3	1/2"	10'-0"	Rect.
4	1/2"	10'-0"	Rect.
5	1/2"	10'-0"	Rect.
6	1/2"	10'-0"	Rect.
7	1/2"	10'-0"	Rect.
8	1/2"	10'-0"	Rect.
9	1/2"	10'-0"	Rect.
10	1/2"	10'-0"	Rect.
11	1/2"	10'-0"	Rect.
12	1/2"	10'-0"	Rect.
13	1/2"	10'-0"	Rect.
14	1/2"	10'-0"	Rect.
15	1/2"	10'-0"	Rect.
16	1/2"	10'-0"	Rect.
17	1/2"	10'-0"	Rect.
18	1/2"	10'-0"	Rect.
19	1/2"	10'-0"	Rect.
20	1/2"	10'-0"	Rect.
21	1/2"	10'-0"	Rect.
22	1/2"	10'-0"	Rect.
23	1/2"	10'-0"	Rect.
24	1/2"	10'-0"	Rect.

**SECTION A-A**

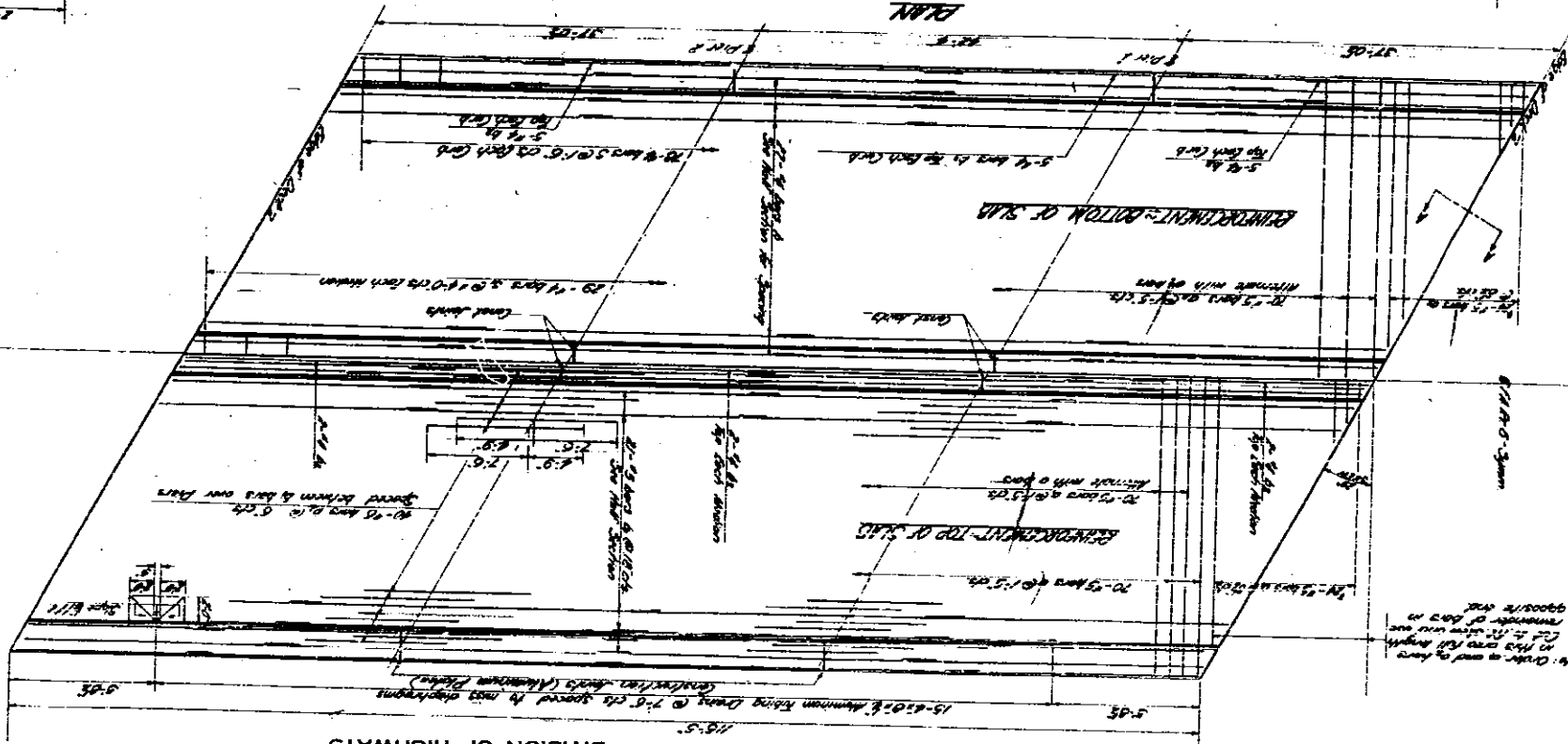


**CLUSE DETAIL**

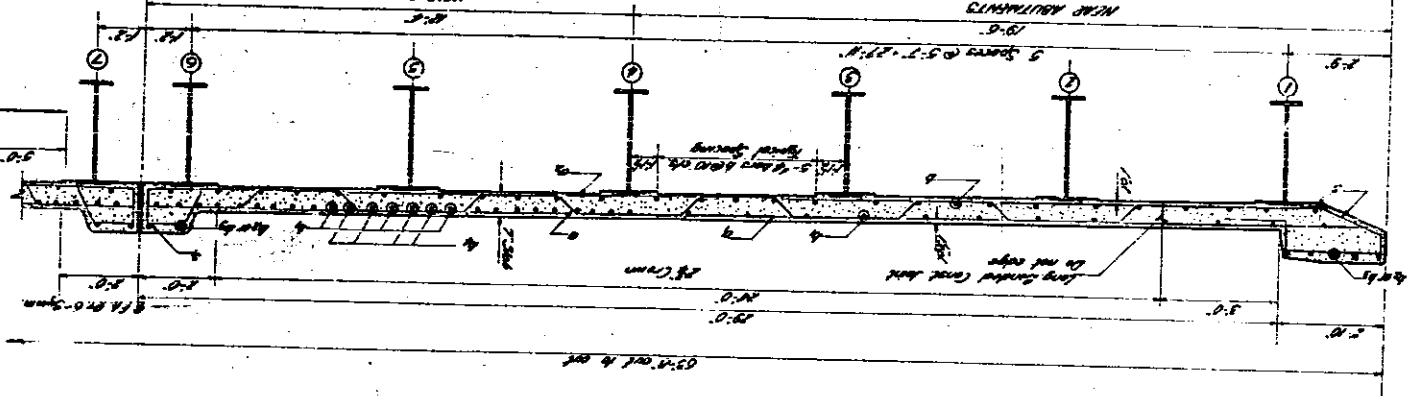


NO.	DATE	BY	REVISION
1	11-1-58	SEA-C	DESIGN
2	11-1-58	SEA-C	REVISED
3	11-1-58	SEA-C	REVISED
4	11-1-58	SEA-C	REVISED
5	11-1-58	SEA-C	REVISED

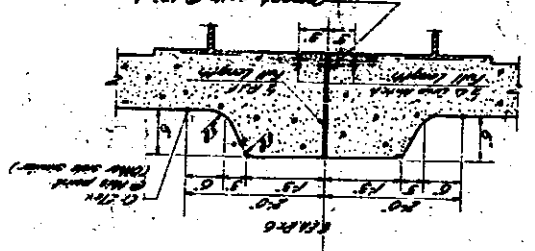
STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
 DIVISION OF HIGHWAYS



**HALF SECTION**



**MECHAN DETAIL**



Draw of structure shown has been checked against the topography of the site and the location of the structure as shown on the plan. The structure is shown in the plan view and the elevation view. The structure is shown in the plan view and the elevation view. The structure is shown in the plan view and the elevation view.

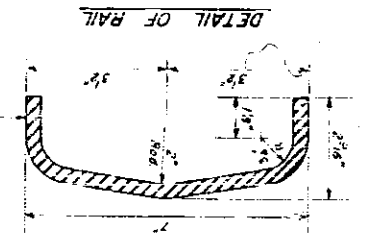
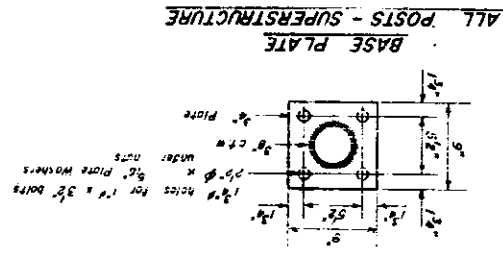
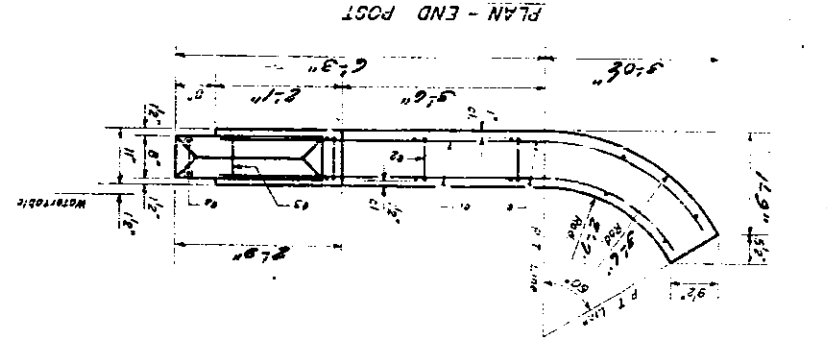
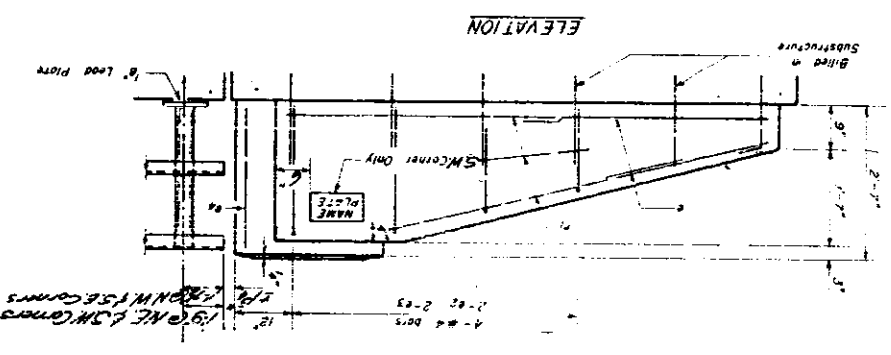
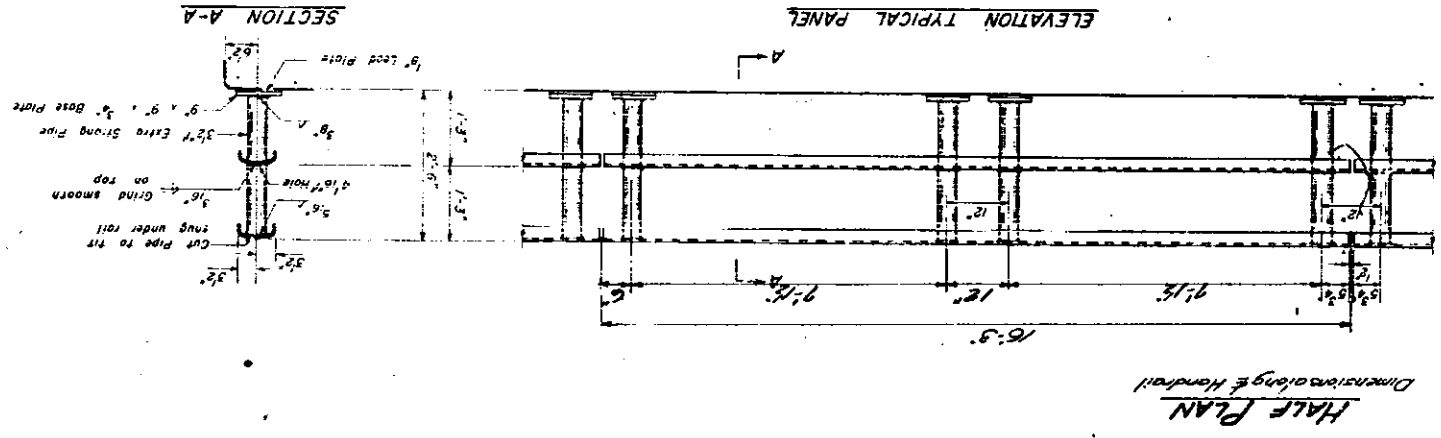
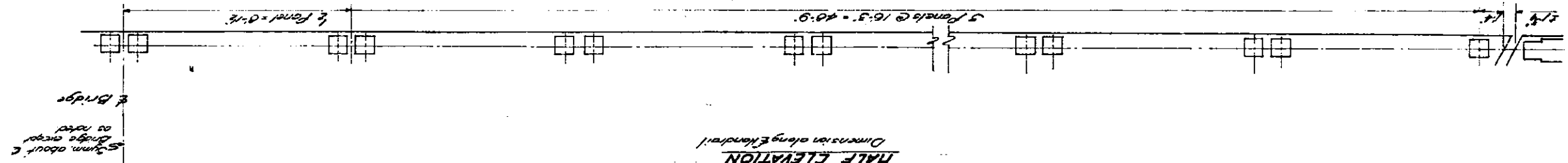
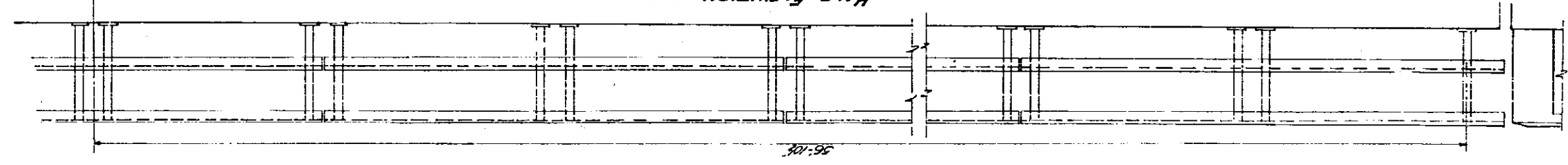
NO.	DATE	BY	REVISION
1	11-21-58	SEA-C	DESIGN
2	11-21-58	SEA-C	REVISED
3	11-21-58	SEA-C	REVISED
4	11-21-58	SEA-C	REVISED
5	11-21-58	SEA-C	REVISED

DESIGNED	CHECKED	APPROVED
M. F. Cook	M. F. Cook	M. F. Cook



SHEET NO.	7
6 B-R-1 Cook	13
8 SHEETS	

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS



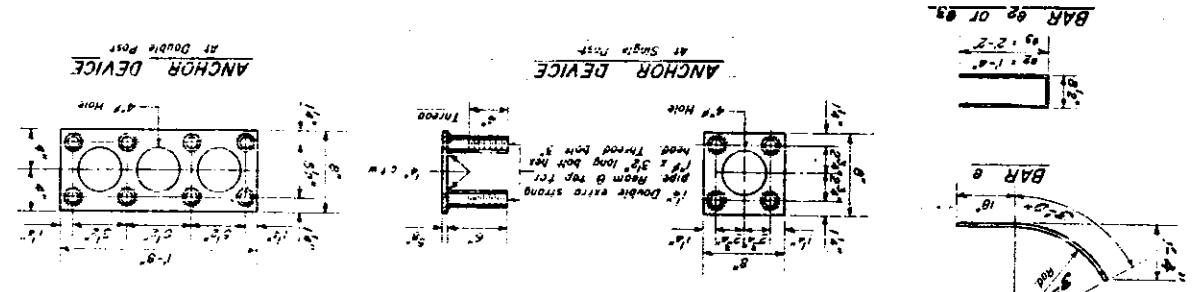
BILL OF MATERIAL

Handrail Concrete	CU YD	2.5
Reinforcement Bars	LES	1.90
Metal Handrail	CU YD	2.0

Note: Provide 1/4" and 2 1/4" shim plates for 90% of railposts. Punch shim plates same as baseplate.

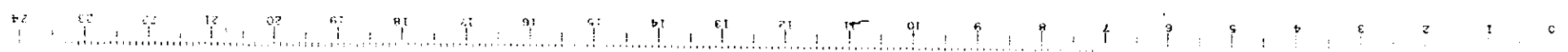
BILL OF REINFORCEMENT

NO.	SIZE	LENGTH	SHAPE
1	1/2"	16'-3"	Rect
2	1/2"	16'-3"	Rect
3	1/2"	16'-3"	Rect
4	1/2"	16'-3"	Rect
5	1/2"	16'-3"	Rect
6	1/2"	16'-3"	Rect
7	1/2"	16'-3"	Rect
8	1/2"	16'-3"	Rect
9	1/2"	16'-3"	Rect
10	1/2"	16'-3"	Rect
11	1/2"	16'-3"	Rect
12	1/2"	16'-3"	Rect
13	1/2"	16'-3"	Rect
14	1/2"	16'-3"	Rect
15	1/2"	16'-3"	Rect
16	1/2"	16'-3"	Rect
17	1/2"	16'-3"	Rect
18	1/2"	16'-3"	Rect
19	1/2"	16'-3"	Rect
20	1/2"	16'-3"	Rect
21	1/2"	16'-3"	Rect
22	1/2"	16'-3"	Rect
23	1/2"	16'-3"	Rect
24	1/2"	16'-3"	Rect



HANDRAIL  
F.A. RTG SEC. 8-R-1  
COOK COUNTY  
STA. 240+83.50

Nov. 21 '58  
M. S. Cooper  
W. A. Sauerborn  
M. S. Cooper  
W. A. Sauerborn



P-1 DRAWING 4-11-57

DESIGNED BY	M. St. Francis
CHECKED BY	[Signature]
APPROVED BY	[Signature]
DATE	Nov. 21, 1958

PIERS 1&2  
 F.A.R.T. 6 SEC. 8-RB-1  
 COOK COUNTY  
 STA. 240 + 83.30

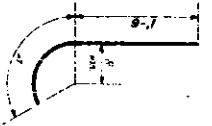
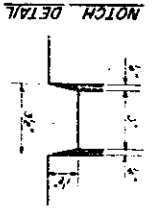
BAR	NO.	SIZE	LENGTH	SHAPE
1	48	#4	7'-0"	U
2	48	#4	7'-0"	U
3	48	#4	7'-0"	U
4	48	#4	7'-0"	U
5	48	#4	7'-0"	U
6	48	#4	7'-0"	U
7	48	#4	7'-0"	U
8	48	#4	7'-0"	U
9	48	#4	7'-0"	U
10	48	#4	7'-0"	U
11	48	#4	7'-0"	U
12	48	#4	7'-0"	U
13	48	#4	7'-0"	U
14	48	#4	7'-0"	U
15	48	#4	7'-0"	U
16	48	#4	7'-0"	U
17	48	#4	7'-0"	U
18	48	#4	7'-0"	U
19	48	#4	7'-0"	U
20	48	#4	7'-0"	U
21	48	#4	7'-0"	U
22	48	#4	7'-0"	U
23	48	#4	7'-0"	U
24	48	#4	7'-0"	U
25	48	#4	7'-0"	U
26	48	#4	7'-0"	U
27	48	#4	7'-0"	U
28	48	#4	7'-0"	U
29	48	#4	7'-0"	U
30	48	#4	7'-0"	U
31	48	#4	7'-0"	U
32	48	#4	7'-0"	U
33	48	#4	7'-0"	U
34	48	#4	7'-0"	U
35	48	#4	7'-0"	U
36	48	#4	7'-0"	U
37	48	#4	7'-0"	U
38	48	#4	7'-0"	U
39	48	#4	7'-0"	U
40	48	#4	7'-0"	U
41	48	#4	7'-0"	U
42	48	#4	7'-0"	U
43	48	#4	7'-0"	U
44	48	#4	7'-0"	U
45	48	#4	7'-0"	U
46	48	#4	7'-0"	U
47	48	#4	7'-0"	U
48	48	#4	7'-0"	U
49	48	#4	7'-0"	U
50	48	#4	7'-0"	U
51	48	#4	7'-0"	U
52	48	#4	7'-0"	U
53	48	#4	7'-0"	U
54	48	#4	7'-0"	U
55	48	#4	7'-0"	U
56	48	#4	7'-0"	U
57	48	#4	7'-0"	U
58	48	#4	7'-0"	U
59	48	#4	7'-0"	U
60	48	#4	7'-0"	U
61	48	#4	7'-0"	U
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63	48	#4	7'-0"	U
64	48	#4	7'-0"	U
65	48	#4	7'-0"	U
66	48	#4	7'-0"	U
67	48	#4	7'-0"	U
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77	48	#4	7'-0"	U
78	48	#4	7'-0"	U
79	48	#4	7'-0"	U
80	48	#4	7'-0"	U
81	48	#4	7'-0"	U
82	48	#4	7'-0"	U
83	48	#4	7'-0"	U
84	48	#4	7'-0"	U
85	48	#4	7'-0"	U
86	48	#4	7'-0"	U
87	48	#4	7'-0"	U
88	48	#4	7'-0"	U
89	48	#4	7'-0"	U
90	48	#4	7'-0"	U
91	48	#4	7'-0"	U
92	48	#4	7'-0"	U
93	48	#4	7'-0"	U
94	48	#4	7'-0"	U
95	48	#4	7'-0"	U
96	48	#4	7'-0"	U
97	48	#4	7'-0"	U
98	48	#4	7'-0"	U
99	48	#4	7'-0"	U
100	48	#4	7'-0"	U

PIER 1&2  
 BILL OF MATERIAL



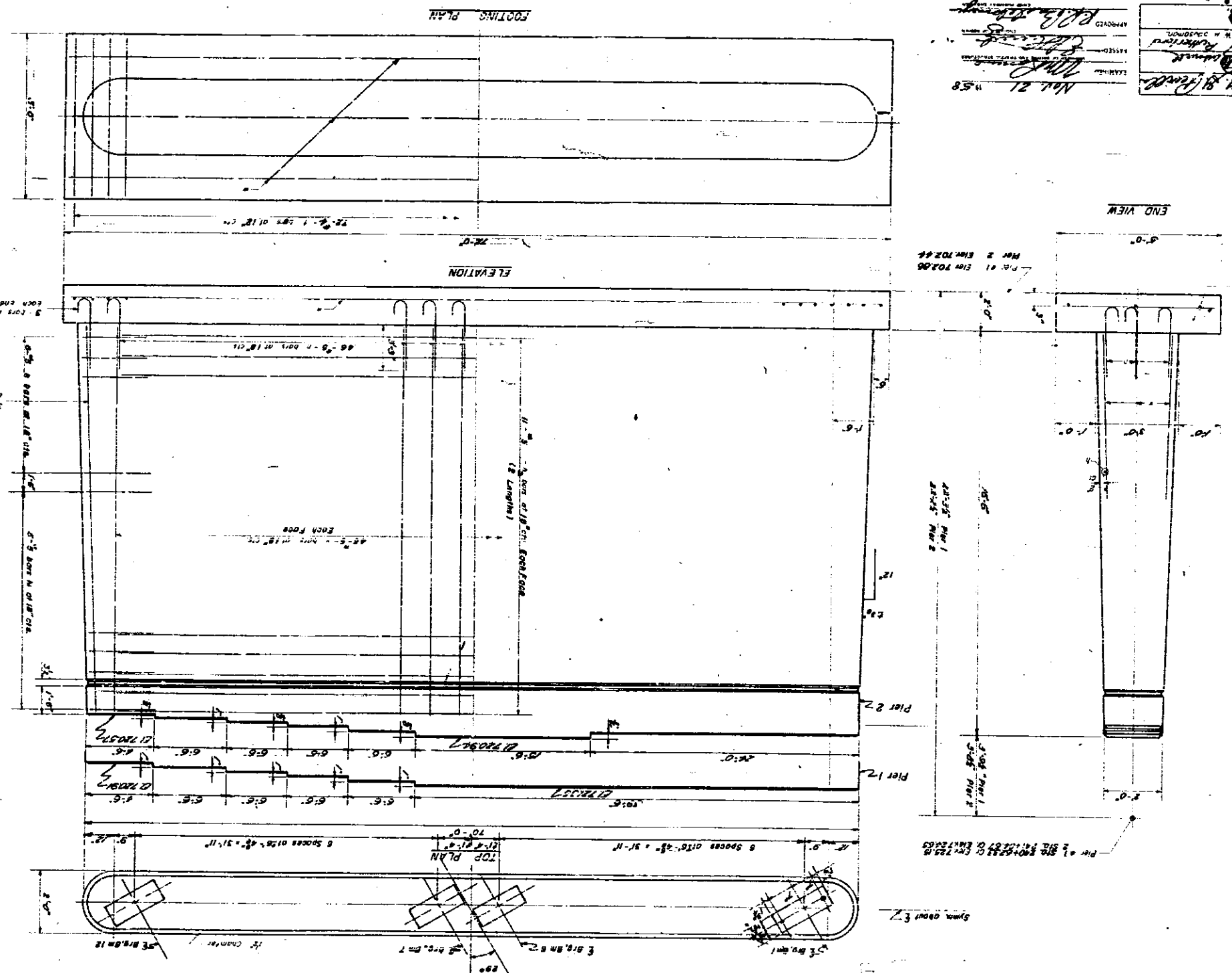
DETAIL OF BARS

BAR	NO.	SIZE	LENGTH	SHAPE
1	48	#4	7'-0"	U
2	48	#4	7'-0"	U
3	48	#4	7'-0"	U
4	48	#4	7'-0"	U
5	48	#4	7'-0"	U
6	48	#4	7'-0"	U
7	48	#4	7'-0"	U
8	48	#4	7'-0"	U
9	48	#4	7'-0"	U
10	48	#4	7'-0"	U
11	48	#4	7'-0"	U
12	48	#4	7'-0"	U
13	48	#4	7'-0"	U
14	48	#4	7'-0"	U
15	48	#4	7'-0"	U
16	48	#4	7'-0"	U
17	48	#4	7'-0"	U
18	48	#4	7'-0"	U
19	48	#4	7'-0"	U
20	48	#4	7'-0"	U
21	48	#4	7'-0"	U
22	48	#4	7'-0"	U
23	48	#4	7'-0"	U
24	48	#4	7'-0"	U
25	48	#4	7'-0"	U
26	48	#4	7'-0"	U
27	48	#4	7'-0"	U
28	48	#4	7'-0"	U
29	48	#4	7'-0"	U
30	48	#4	7'-0"	U
31	48	#4	7'-0"	U
32	48	#4	7'-0"	U
33	48	#4	7'-0"	U
34	48	#4	7'-0"	U
35	48	#4	7'-0"	U
36	48	#4	7'-0"	U
37	48	#4	7'-0"	U
38	48	#4	7'-0"	U
39	48	#4	7'-0"	U
40	48	#4	7'-0"	U
41	48	#4	7'-0"	U
42	48	#4	7'-0"	U
43	48	#4	7'-0"	U
44	48	#4	7'-0"	U
45	48	#4	7'-0"	U
46	48	#4	7'-0"	U
47	48	#4	7'-0"	U
48	48	#4	7'-0"	U
49	48	#4	7'-0"	U
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51	48	#4	7'-0"	U
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53	48	#4	7'-0"	U
54	48	#4	7'-0"	U
55	48	#4	7'-0"	U
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57	48	#4	7'-0"	U
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59	48	#4	7'-0"	U
60	48	#4	7'-0"	U
61	48	#4	7'-0"	U
62	48	#4	7'-0"	U
63	48	#4	7'-0"	U
64	48	#4	7'-0"	U
65	48	#4	7'-0"	U
66	48	#4	7'-0"	U
67	48	#4	7'-0"	U
68	48	#4	7'-0"	U
69	48	#4	7'-0"	U
70	48	#4	7'-0"	U
71	48	#4	7'-0"	U
72	48	#4	7'-0"	U
73	48	#4	7'-0"	U
74	48	#4	7'-0"	U
75	48	#4	7'-0"	U
76	48	#4	7'-0"	U
77	48	#4	7'-0"	U
78	48	#4	7'-0"	U
79	48	#4	7'-0"	U
80	48	#4	7'-0"	U
81	48	#4	7'-0"	U
82	48	#4	7'-0"	U
83	48	#4	7'-0"	U
84	48	#4	7'-0"	U
85	48	#4	7'-0"	U
86	48	#4	7'-0"	U
87	48	#4	7'-0"	U
88	48	#4	7'-0"	U
89	48	#4	7'-0"	U
90	48	#4	7'-0"	U
91	48	#4	7'-0"	U
92	48	#4	7'-0"	U
93	48	#4	7'-0"	U
94	48	#4	7'-0"	U
95	48	#4	7'-0"	U
96	48	#4	7'-0"	U
97	48	#4	7'-0"	U
98	48	#4	7'-0"	U
99	48	#4	7'-0"	U
100	48	#4	7'-0"	U



SHEET NO.	NO. SHEETS	DATE	BY	CHECKED	APPROVED
13	13		COOK		

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
 DIVISION OF HIGHWAYS



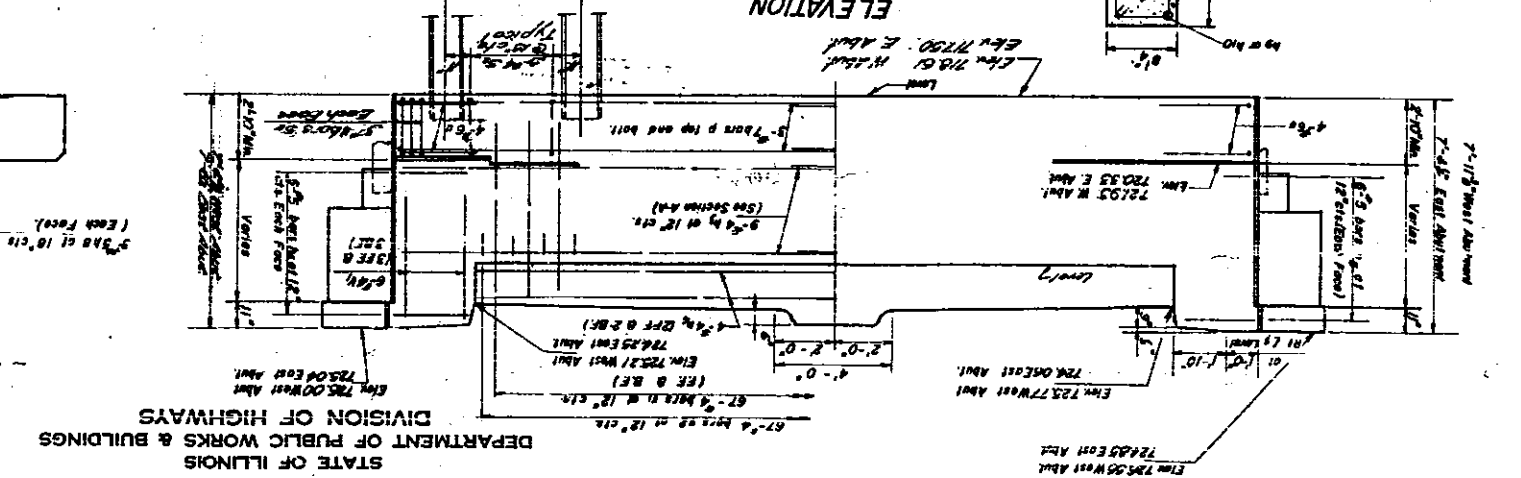
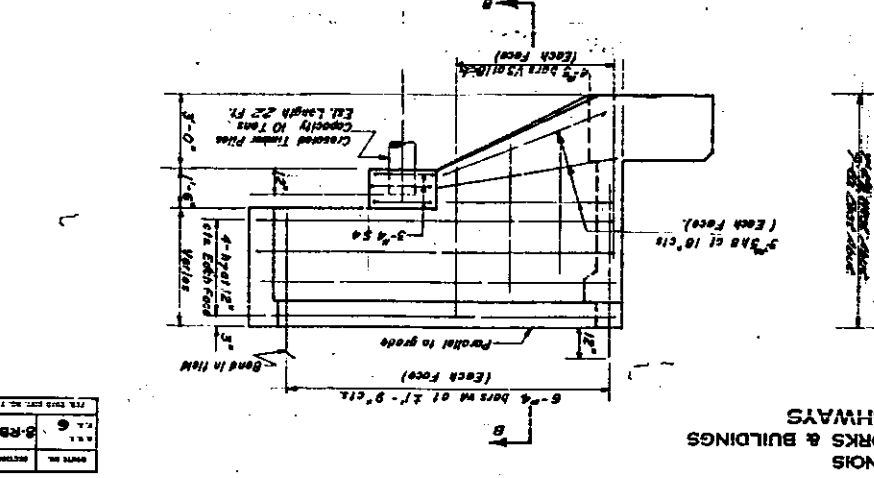
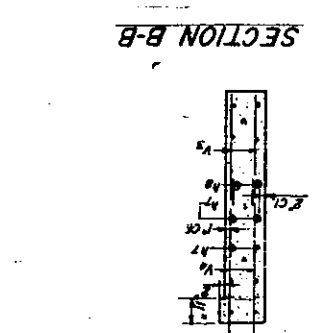
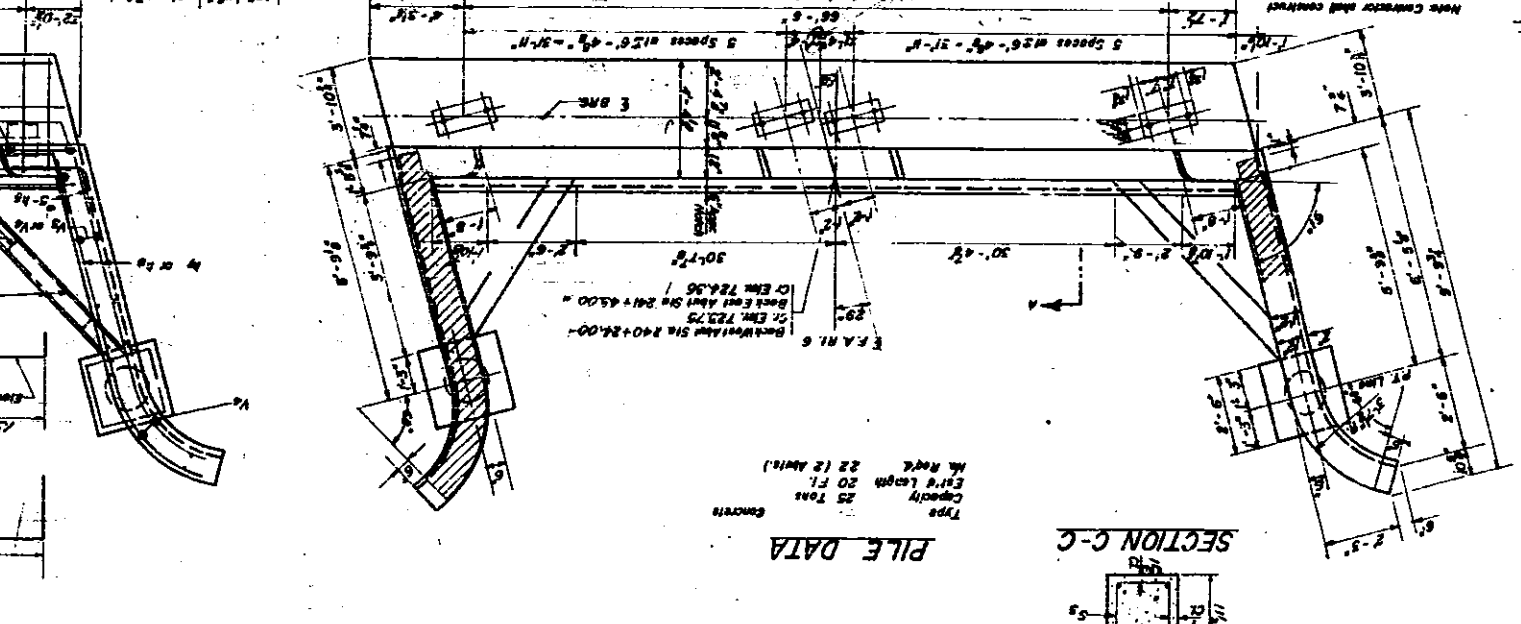
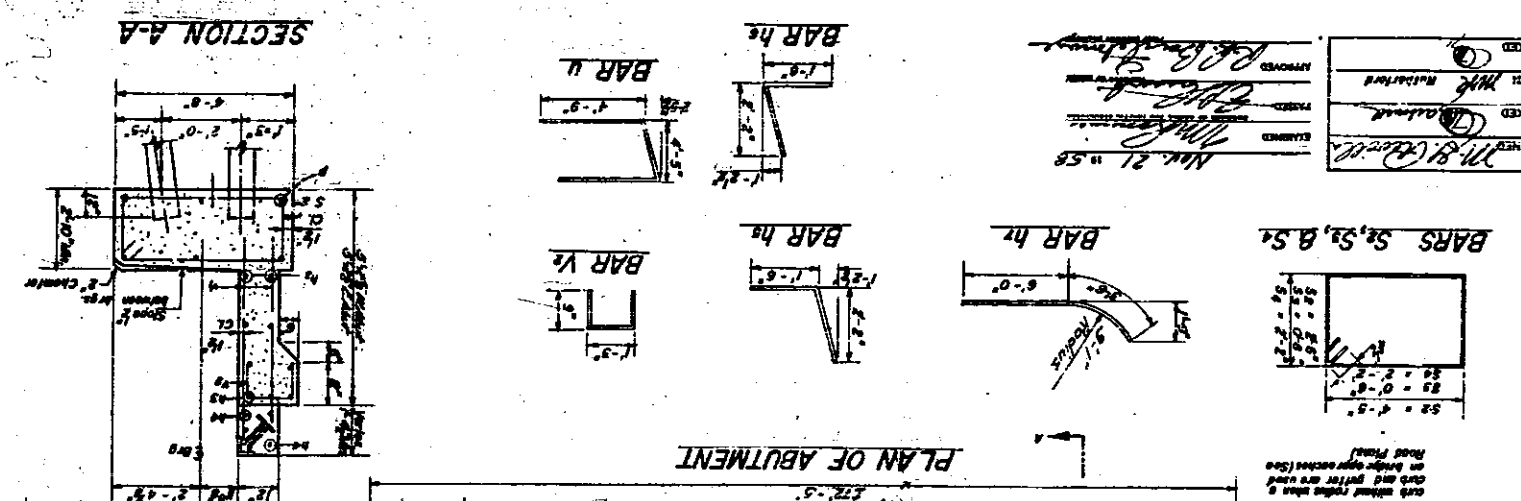
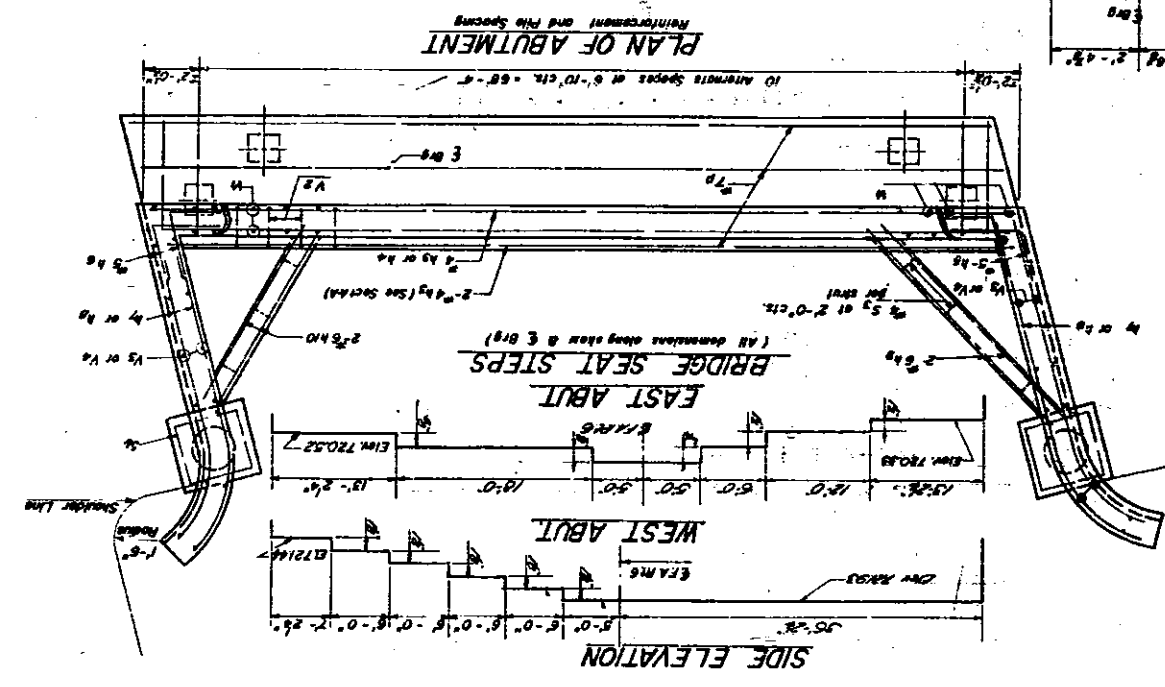
ABUTMENTS  
 F.A.R. 6 Sec. 8-RB-1  
 COOK COUNTY  
 Sta. 240+83.50

**BILL OF MATERIAL**

CONCRETE	1000
CEMENT	1000
IRON	1000
STEEL	1000
WOOD	1000
PAINT	1000
LABOR	1000
TRUCK	1000
OTHER	1000

**BAR LIST**

Bar No.	Size	Length	Shape	Qty	Remarks
B1	#4	12'-0"	Rect	12	Top Deck
B2	#4	12'-0"	Rect	12	Bottom Deck
B3	#4	12'-0"	Rect	12	Diagonal
B4	#4	12'-0"	Rect	12	Diagonal
B5	#4	12'-0"	Rect	12	Diagonal
B6	#4	12'-0"	Rect	12	Diagonal
B7	#4	12'-0"	Rect	12	Diagonal
B8	#4	12'-0"	Rect	12	Diagonal
B9	#4	12'-0"	Rect	12	Diagonal
B10	#4	12'-0"	Rect	12	Diagonal
B11	#4	12'-0"	Rect	12	Diagonal
B12	#4	12'-0"	Rect	12	Diagonal
B13	#4	12'-0"	Rect	12	Diagonal
B14	#4	12'-0"	Rect	12	Diagonal
B15	#4	12'-0"	Rect	12	Diagonal
B16	#4	12'-0"	Rect	12	Diagonal
B17	#4	12'-0"	Rect	12	Diagonal
B18	#4	12'-0"	Rect	12	Diagonal
B19	#4	12'-0"	Rect	12	Diagonal
B20	#4	12'-0"	Rect	12	Diagonal



**STATE OF ILLINOIS**

PROJECT NO.	13
SHEET NO.	8
DATE	
DESIGNED BY	
CHECKED BY	
APPROVED BY	

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
 DIVISION OF HIGHWAYS

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
 DIVISION OF HIGHWAYS

BORINGS  
 PART 6 SEC 8-R-1  
 COOK COUNTY  
 STA 240+83.50

RESIGNED: M. B. ...  
 CHECKED: ...  
 DRAWN: ...  
 APPROVED: ...  
 DATE: Nov 21 '57

**BORING #1**

Boring located at station 240+30, 16 ft. ft. centerline.

16	105.0	Graded subangular gravel.
15	105.0	Graded subangular gravel.
14	105.0	Graded subangular gravel.
13	105.0	Graded subangular gravel.
12	105.0	Graded subangular gravel.
11	105.0	Graded subangular gravel.
10	105.0	Graded subangular gravel.
9	105.0	Graded subangular gravel.
8	105.0	Graded subangular gravel.
7	105.0	Graded subangular gravel.
6	105.0	Graded subangular gravel.
5	105.0	Graded subangular gravel.
4	105.0	Graded subangular gravel.
3	105.0	Graded subangular gravel.
2	105.0	Graded subangular gravel.
1	105.0	Graded subangular gravel.

**BORING #2**

Boring located at station 240+20, 27 ft. ft. centerline.

16	105.0	Graded subangular gravel.
15	105.0	Graded subangular gravel.
14	105.0	Graded subangular gravel.
13	105.0	Graded subangular gravel.
12	105.0	Graded subangular gravel.
11	105.0	Graded subangular gravel.
10	105.0	Graded subangular gravel.
9	105.0	Graded subangular gravel.
8	105.0	Graded subangular gravel.
7	105.0	Graded subangular gravel.
6	105.0	Graded subangular gravel.
5	105.0	Graded subangular gravel.
4	105.0	Graded subangular gravel.
3	105.0	Graded subangular gravel.
2	105.0	Graded subangular gravel.
1	105.0	Graded subangular gravel.

**BORING #3**

Boring located at station 241+10, 16 ft. ft. centerline.

16	105.0	Graded subangular gravel.
15	105.0	Graded subangular gravel.
14	105.0	Graded subangular gravel.
13	105.0	Graded subangular gravel.
12	105.0	Graded subangular gravel.
11	105.0	Graded subangular gravel.
10	105.0	Graded subangular gravel.
9	105.0	Graded subangular gravel.
8	105.0	Graded subangular gravel.
7	105.0	Graded subangular gravel.
6	105.0	Graded subangular gravel.
5	105.0	Graded subangular gravel.
4	105.0	Graded subangular gravel.
3	105.0	Graded subangular gravel.
2	105.0	Graded subangular gravel.
1	105.0	Graded subangular gravel.

**BORING #4**

Boring located at station 241+50, 10 ft. ft. centerline.

16	105.0	Graded subangular gravel.
15	105.0	Graded subangular gravel.
14	105.0	Graded subangular gravel.
13	105.0	Graded subangular gravel.
12	105.0	Graded subangular gravel.
11	105.0	Graded subangular gravel.
10	105.0	Graded subangular gravel.
9	105.0	Graded subangular gravel.
8	105.0	Graded subangular gravel.
7	105.0	Graded subangular gravel.
6	105.0	Graded subangular gravel.
5	105.0	Graded subangular gravel.
4	105.0	Graded subangular gravel.
3	105.0	Graded subangular gravel.
2	105.0	Graded subangular gravel.
1	105.0	Graded subangular gravel.

Note: Check for flat or loose soil at centerline.  
 of boring logs.  
 100' x 12' holes.  
 On a diameter compression strength in tons.  
 per square foot.



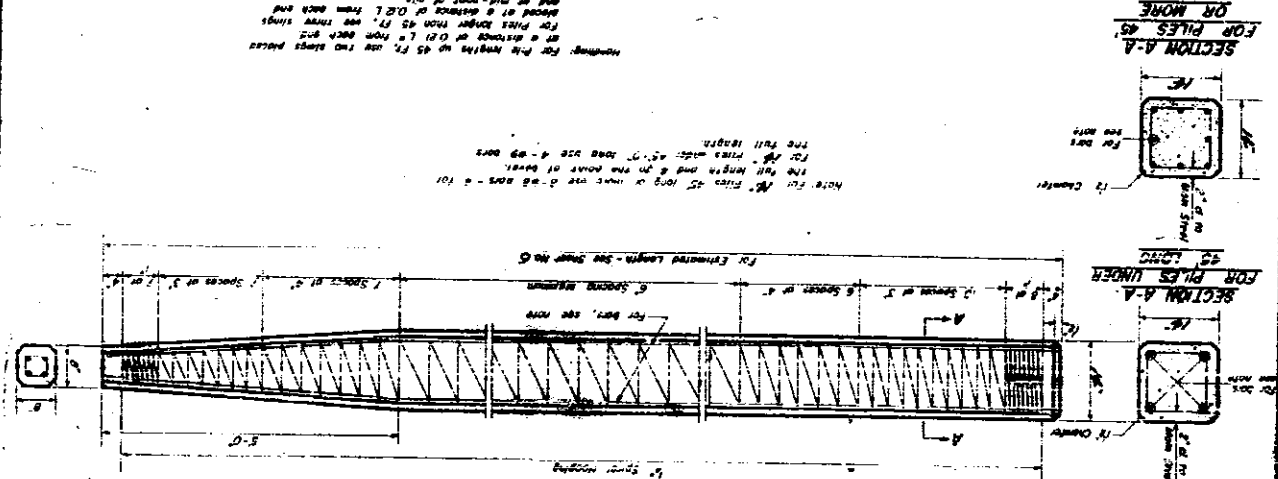


PILE DATA  
 IAB-6 SEC. 8-RB-1  
 COOK COUNTY  
 STA. 240+03.50

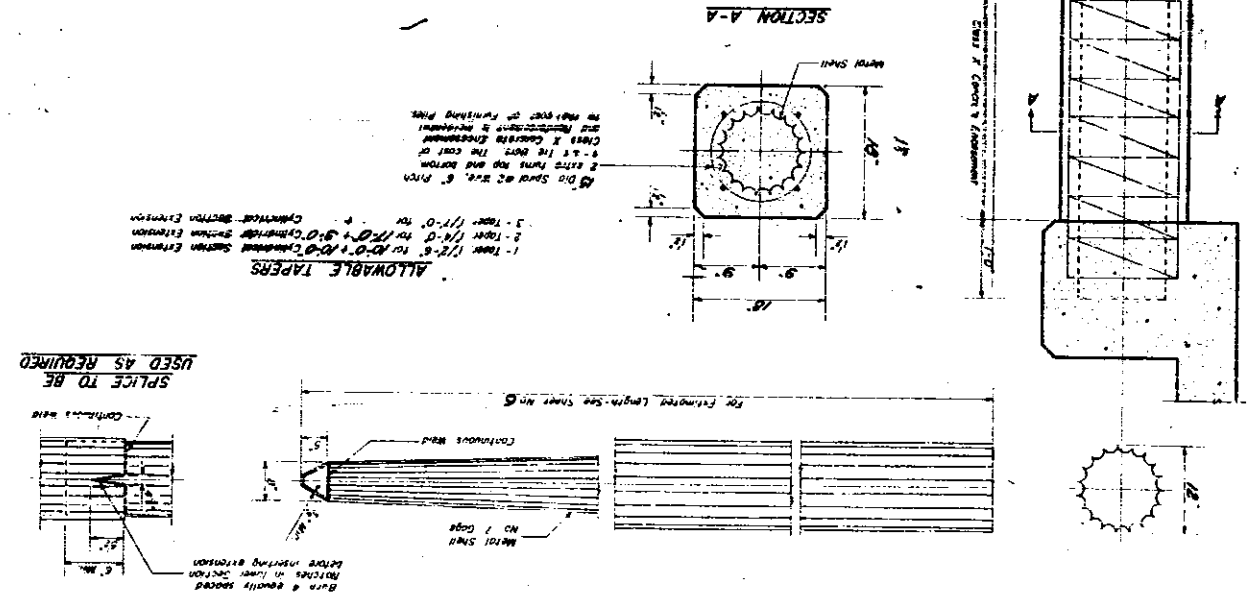
ALTERNATE A  
 DETAIL OF PRECAST CONCRETE PILES

DESIGNED	H. G. Reilly
CHECKED	[Signature]
DATE	Nov 21 1958
PROJECT	[Signature]
DRAWN	[Signature]
SCALE	AS SHOWN

NOTE: For pile lengths up to 45 ft. use two splice plates at a distance of 0.2 L from each end and one splice plate at a distance of 0.2 L from each end and of mid-point of pile.

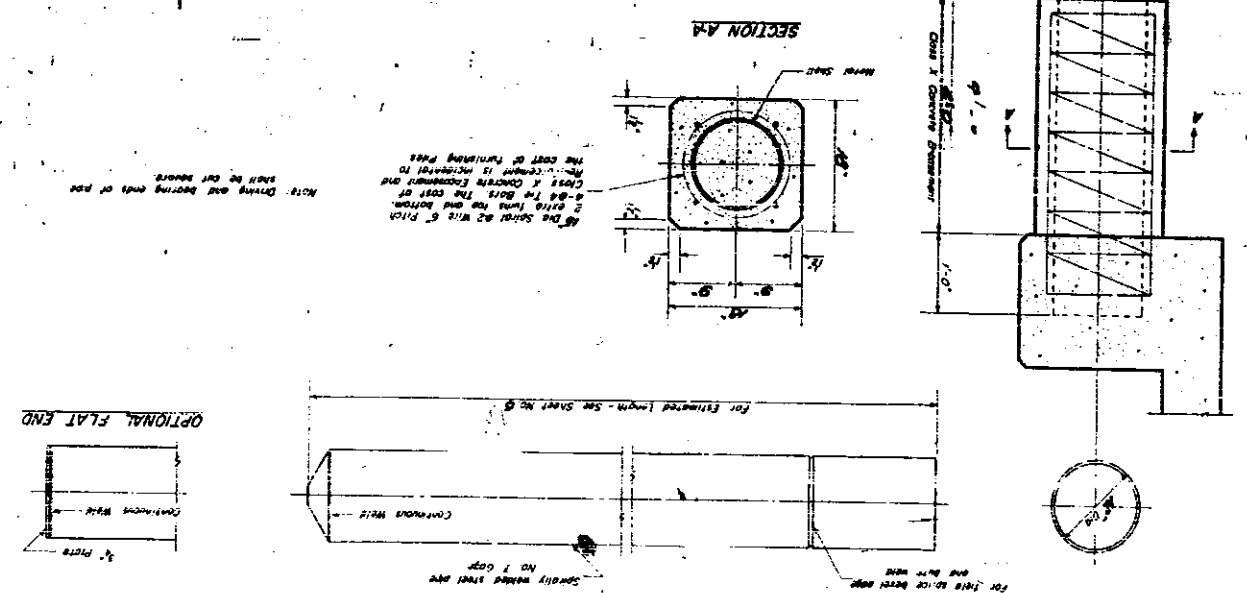


ALTERNATE B  
 DETAIL OF METAL SHELL  
 FOR CAST IN PLACE CONCRETE PILES



ALLOWABLE TAPERS  
 1- Taper 1/2" to 1/4" per foot  
 2- Taper 1/4" to 1/8" per foot  
 3- Taper 1/8" to 1/16" per foot  
 4- No taper  
 5- Taper 1/16" to 1/32" per foot  
 6- Taper 1/32" to 1/64" per foot  
 7- Taper 1/64" to 1/128" per foot  
 8- Taper 1/128" to 1/256" per foot  
 9- Taper 1/256" to 1/512" per foot  
 10- Taper 1/512" to 1/1024" per foot  
 11- Taper 1/1024" to 1/2048" per foot  
 12- Taper 1/2048" to 1/4096" per foot  
 13- Taper 1/4096" to 1/8192" per foot  
 14- Taper 1/8192" to 1/16384" per foot  
 15- Taper 1/16384" to 1/32768" per foot  
 16- Taper 1/32768" to 1/65536" per foot  
 17- Taper 1/65536" to 1/131072" per foot  
 18- Taper 1/131072" to 1/262144" per foot  
 19- Taper 1/262144" to 1/524288" per foot  
 20- Taper 1/524288" to 1/1048576" per foot  
 21- Taper 1/1048576" to 1/2097152" per foot  
 22- Taper 1/2097152" to 1/4194304" per foot  
 23- Taper 1/4194304" to 1/8388608" per foot  
 24- Taper 1/8388608" to 1/16777216" per foot

ALTERNATE B  
 DETAIL OF SPATIALLY WELDED STEEL SHELL  
 FOR CAST IN PLACE CONCRETE PILES



SHEET NO. 6	NO. OF SHEETS	11
SECTION	NO. OF SHEETS	11
NO. OF SHEETS	NO. OF SHEETS	11
NO. OF SHEETS	NO. OF SHEETS	11

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
 DIVISION OF HIGHWAYS