

Item	Quantity	Unit	Material	Notes
Substructure	433.4	cu yd	Concrete	
Abutment A	25.0	cu yd	Concrete	
Pier N1	18.4	cu yd	Concrete	
Pier N2	18.4	cu yd	Concrete	
Pier N3	18.4	cu yd	Concrete	
Pier N4	18.4	cu yd	Concrete	
Pier N5	18.4	cu yd	Concrete	
Pier N6	18.4	cu yd	Concrete	
Pier N7	18.4	cu yd	Concrete	
Pier N8	18.4	cu yd	Concrete	
Pier N9	18.4	cu yd	Concrete	
Pier N10	18.4	cu yd	Concrete	
Abutment B	25.0	cu yd	Concrete	
Deck	523.7	sq ft	Concrete	

I hereby certify that this structure was built according to revised plans.

Resident Engineer

NOTES:

1. All work shall be done in accordance with the plans and specifications.
2. The contractor shall be responsible for obtaining all necessary permits and licenses.
3. The contractor shall be responsible for the safety of the work and the public.
4. The contractor shall be responsible for the quality of the work and the materials used.
5. The contractor shall be responsible for the completion of the work within the specified time.

PROJECT NO. 014043
 LEE CHATHAM COUNTY
 STATION 167+59

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

GENERAL DRAWING FOR
 WIDENING OF BRIDGE OVER
 DEEP RIVER ON US 152 501
 BETWEEN SANFORD AND
 PITTSBORO, N.C.

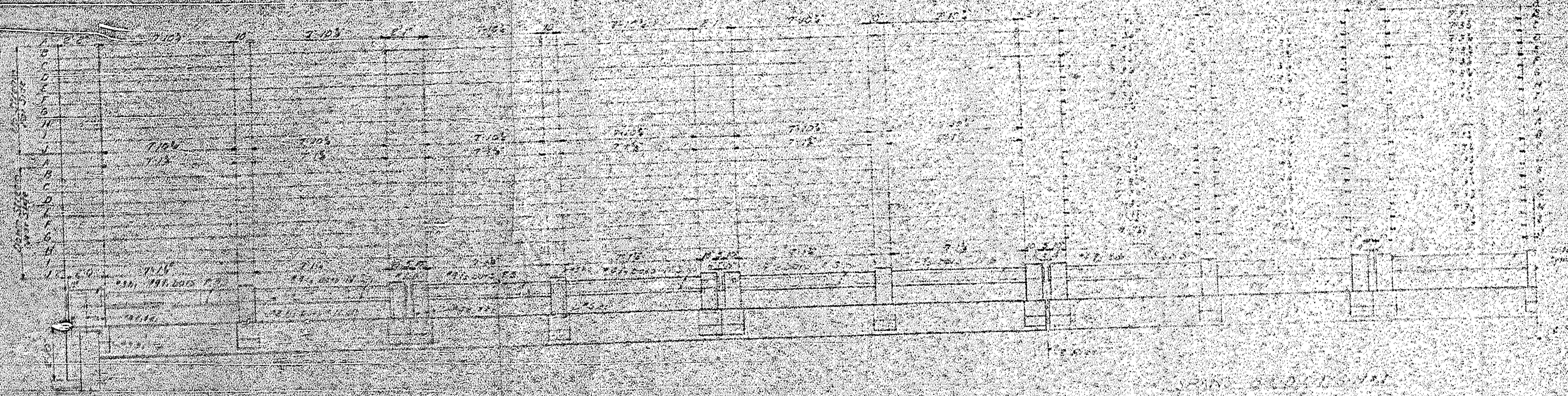
DATE: 11/17/59

DESIGNED BY: [Signature]

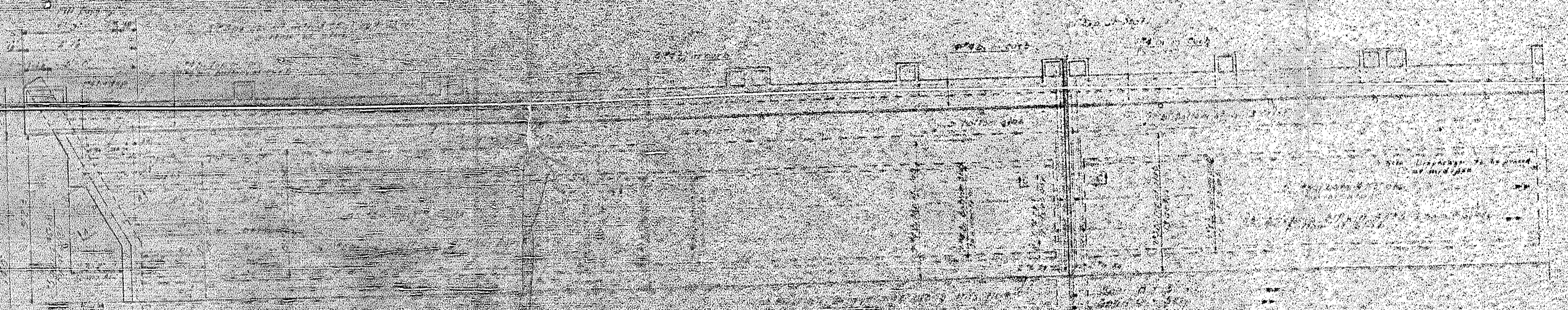
DRAWN BY: [Signature]

CHECKED BY: [Signature]

APPROVED BY: [Signature]



ELEVATION



PROJECT NO. 100

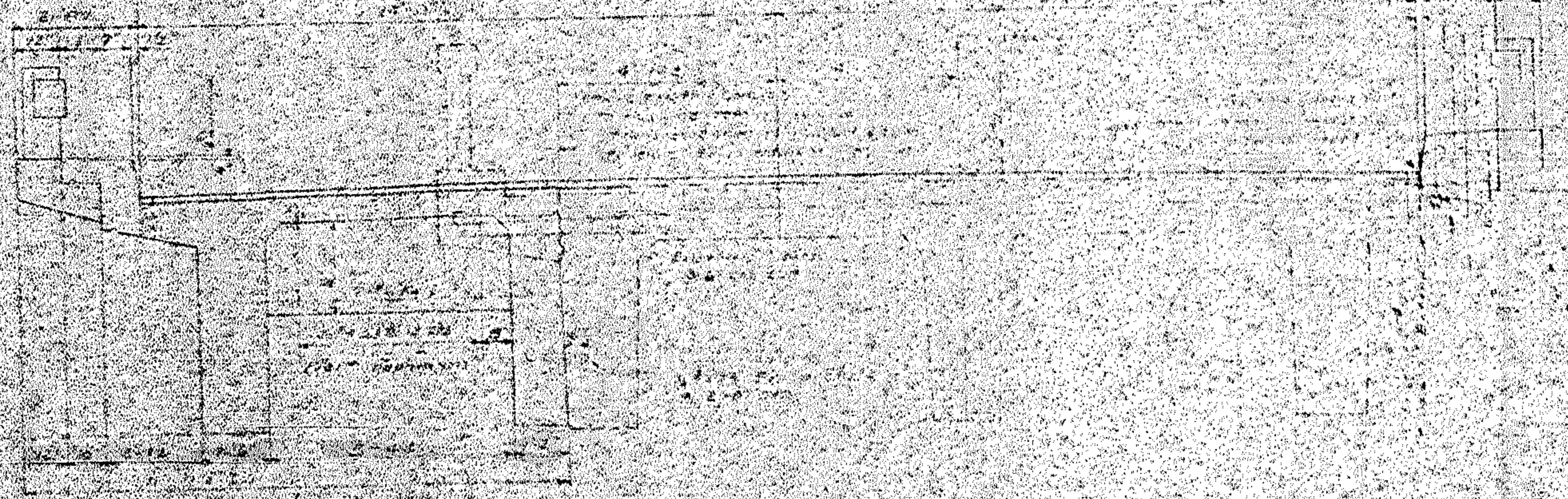
COUNTY

STATION

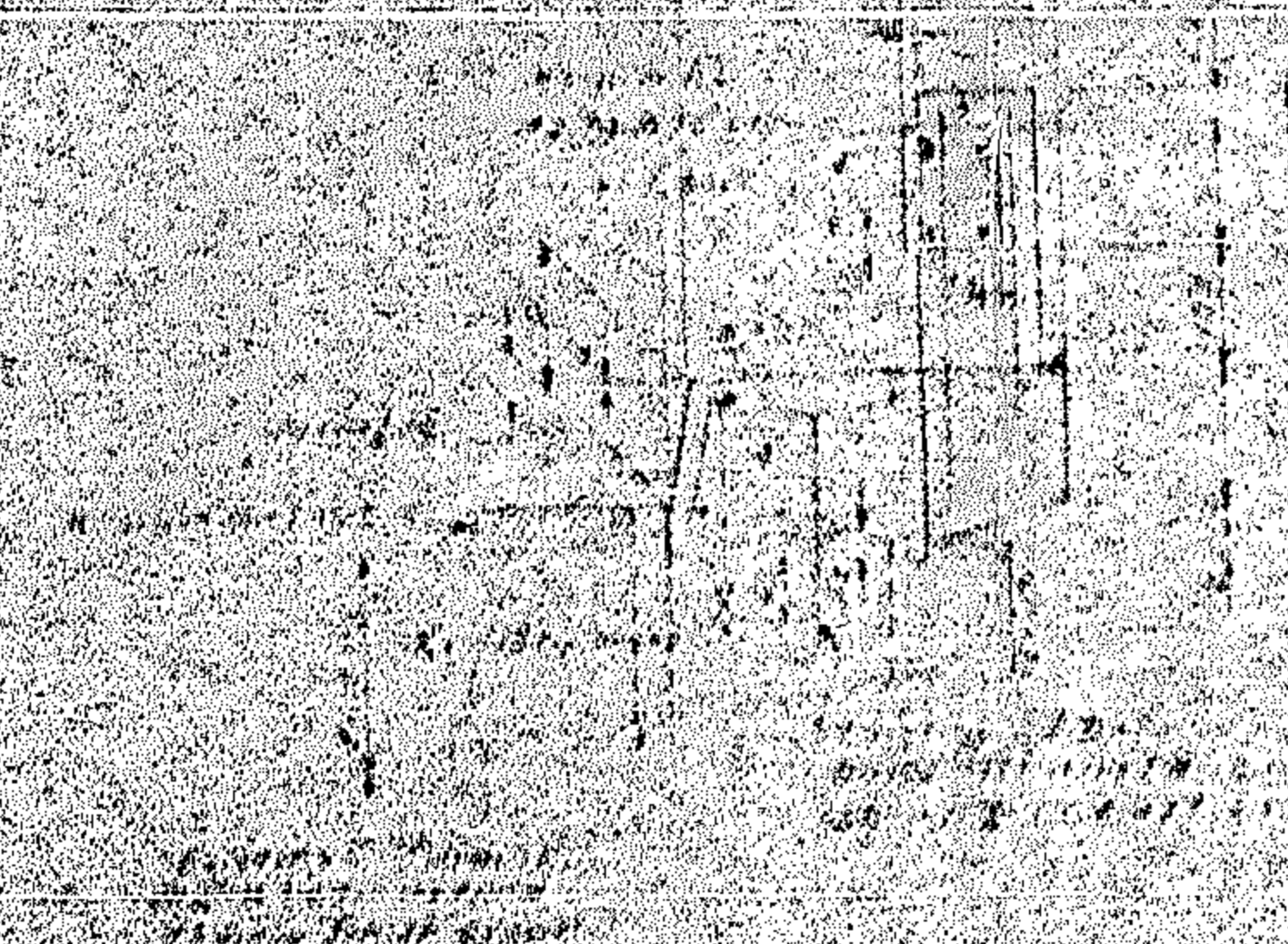
STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

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CROWN DIAGRAM



PARTIAL SECTION



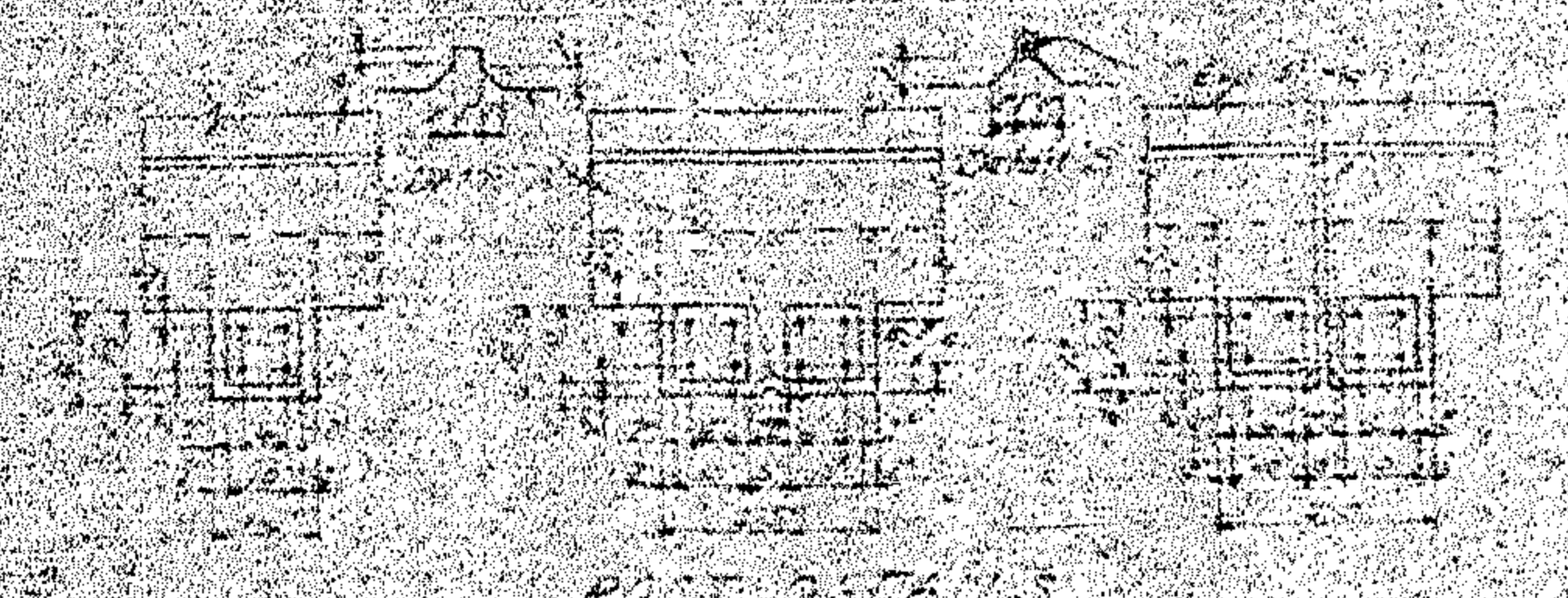
PART SECTION DOWN STREAM SIDE

PROJECT NO. ...
COUNTY ...
STATION: ...

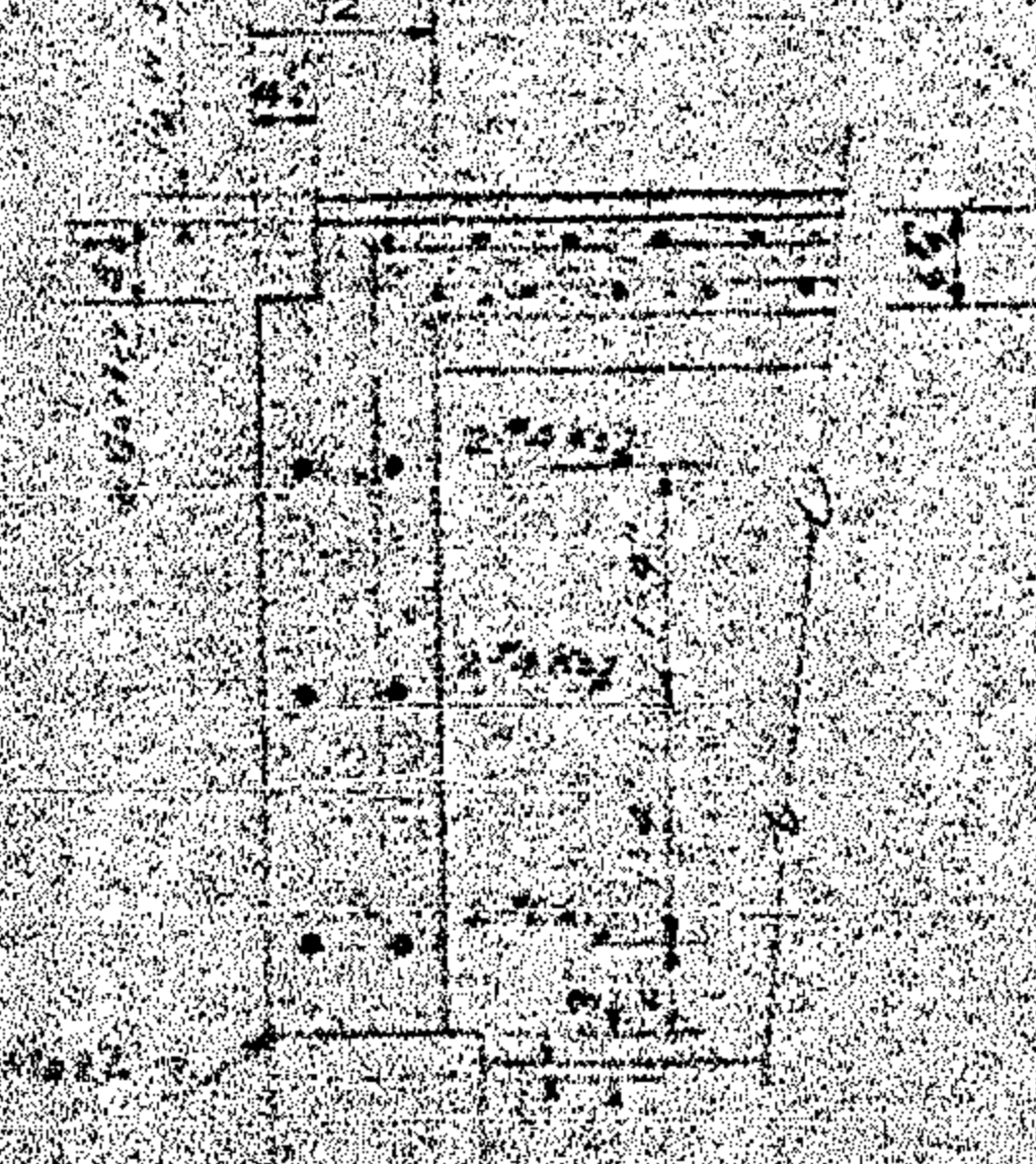
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STATE OF NORTH CAROLINA
STATE HIGHWAY
COMMISSION
SUPERSTRUCTURE
DETAILS
MARCH 1931

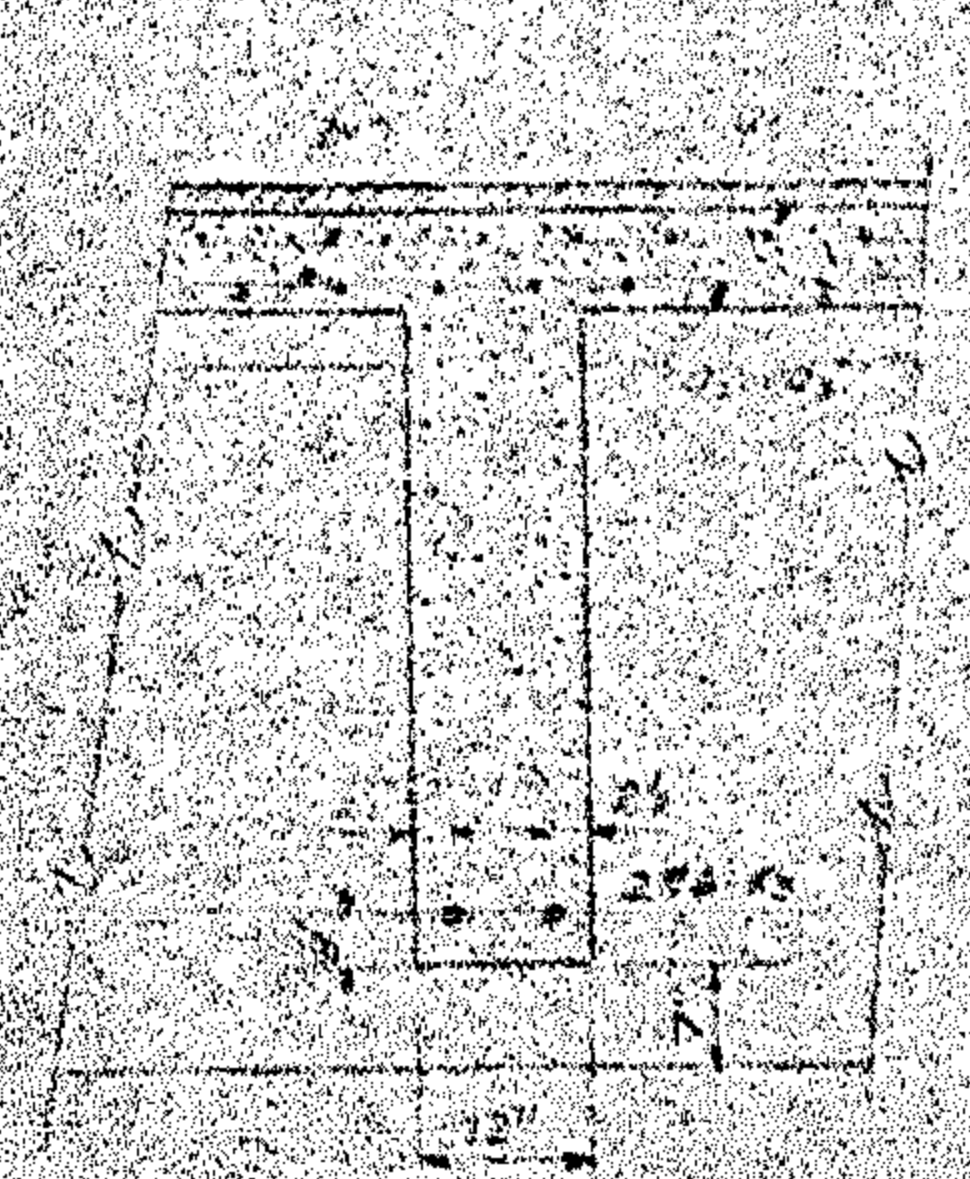
NO. 1	NO. 2	NO. 3	NO. 4



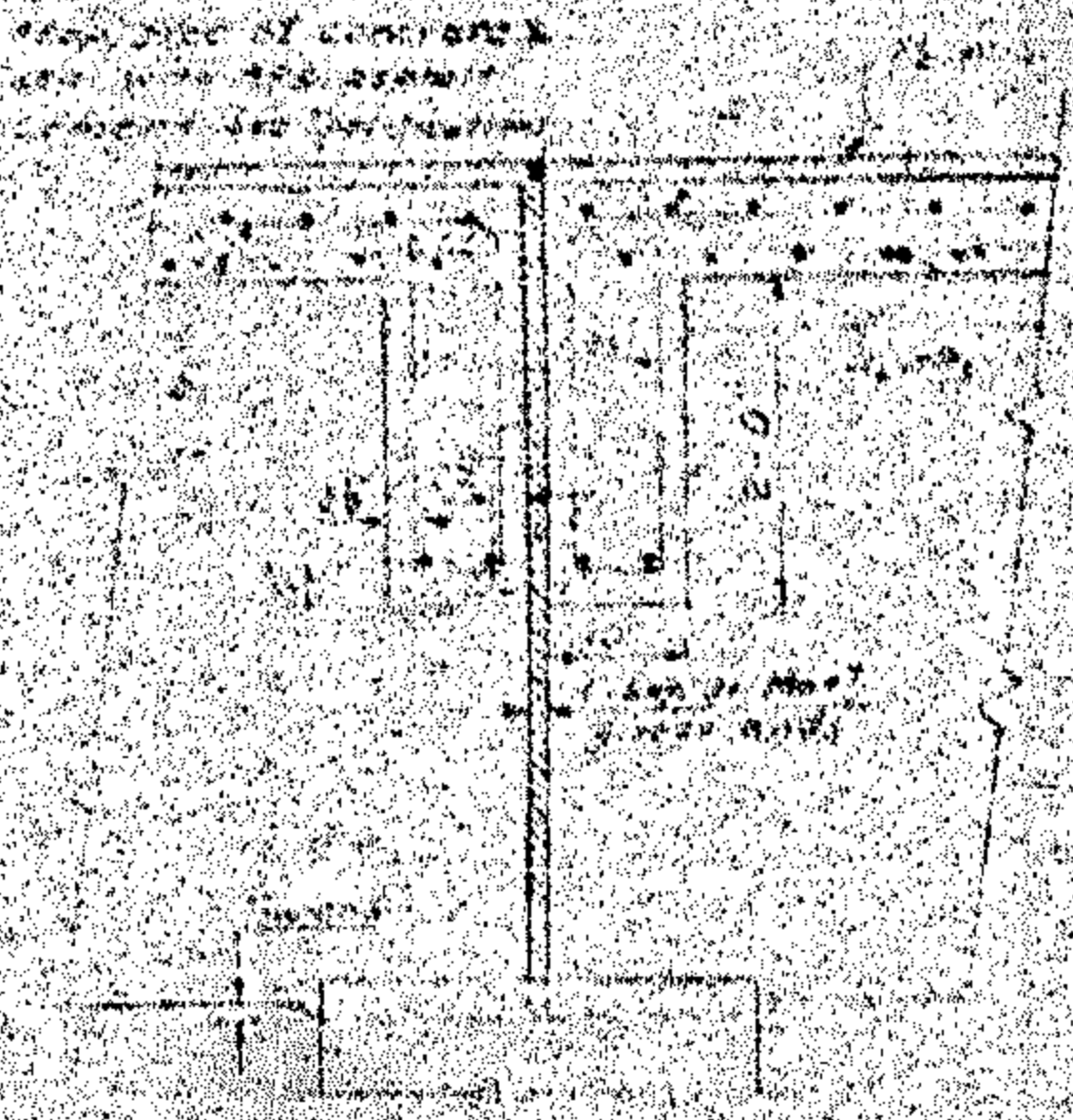
PLAN OF BUILDING



SECTION A-A

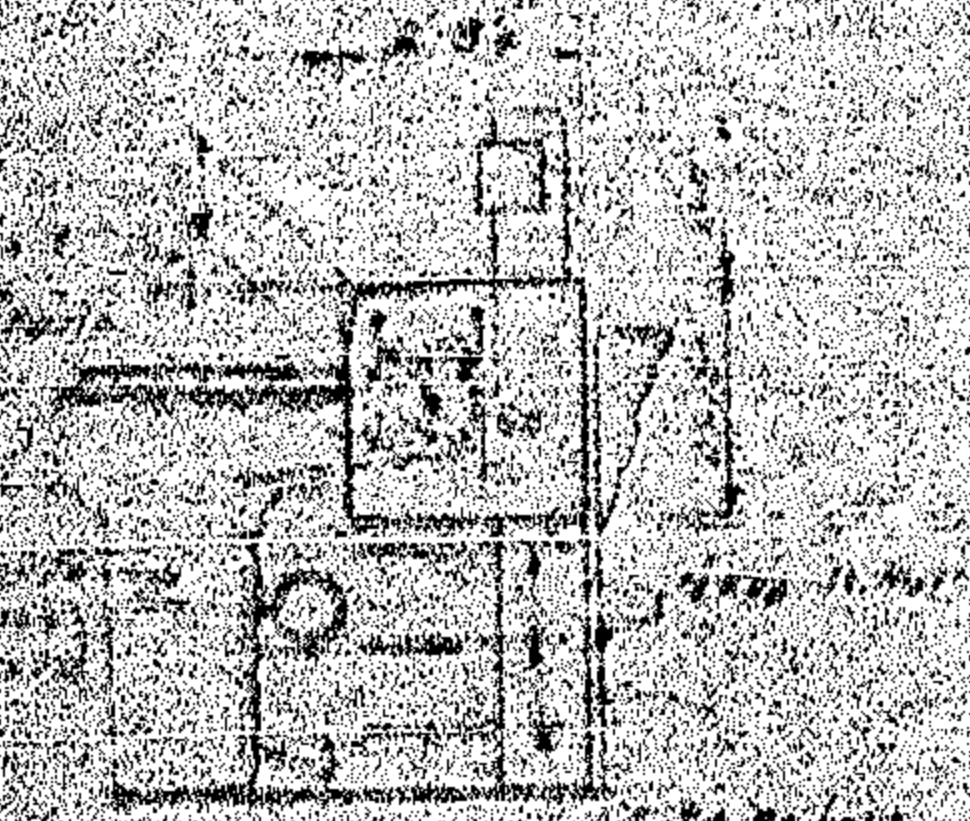
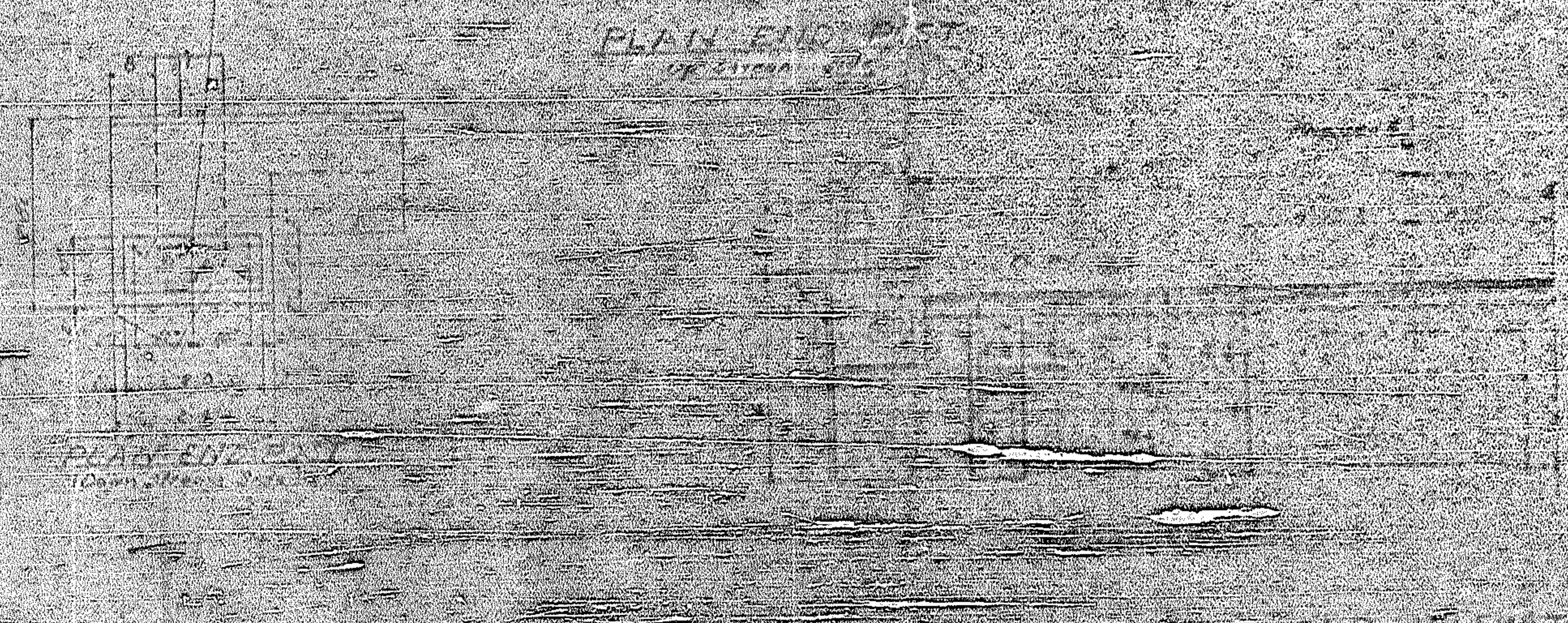


SECTION B-B



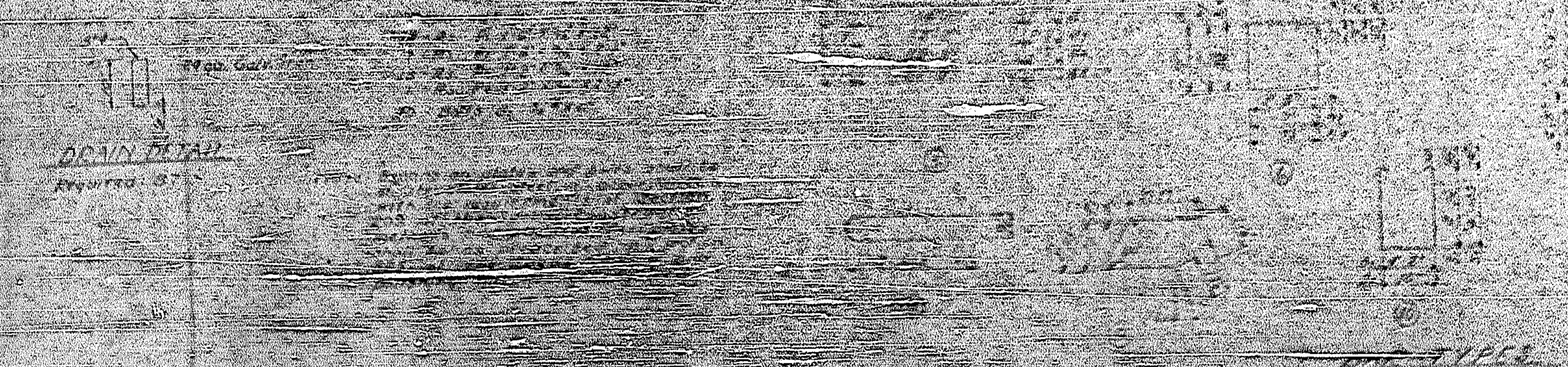
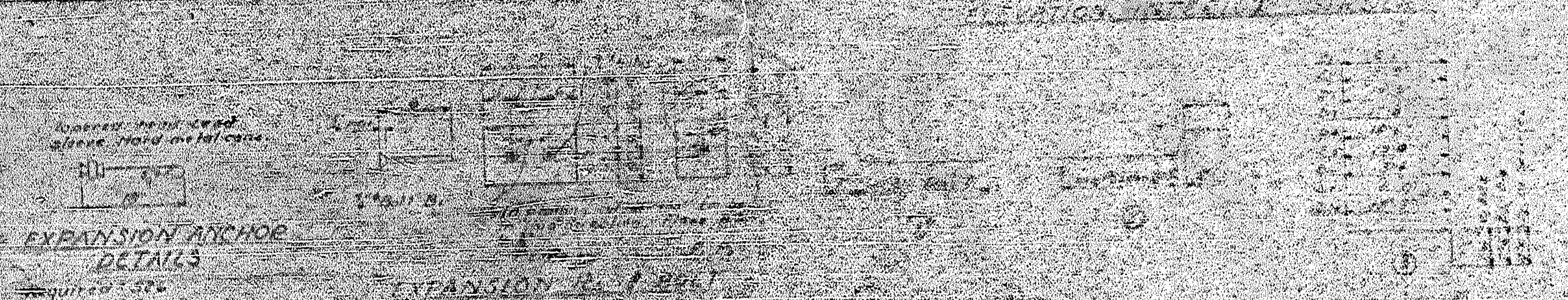
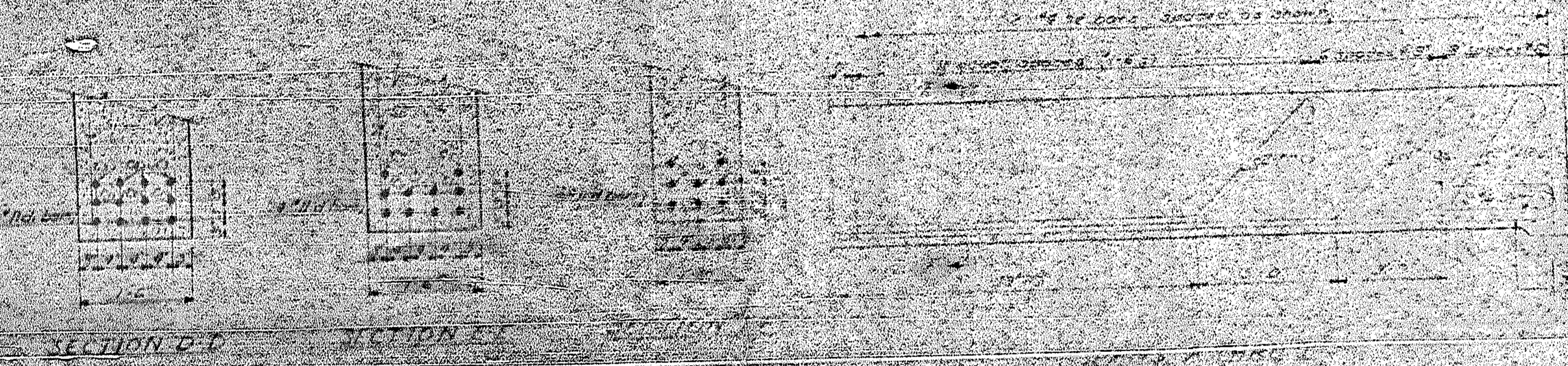
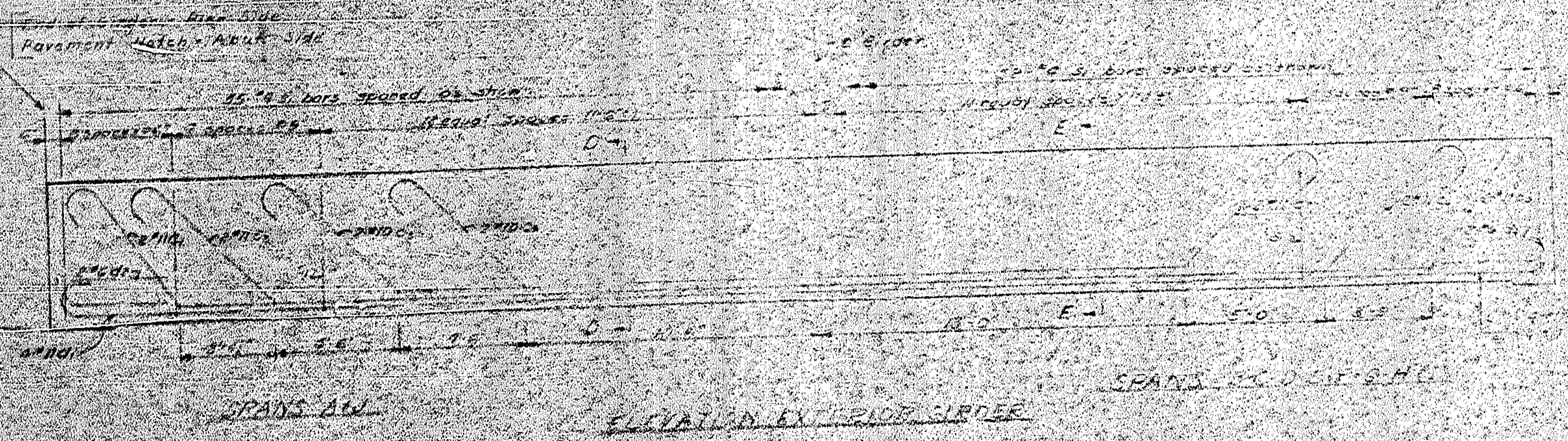
SECTION C-C

PLAN END POST



PROJECT NO. _____
 CHATHAM COUNTY
 STATION: _____

1	STATE OF NORTH CAROLINA
2	STATE HIGHWAY
3	COMMISSION
4	SUPERSTRUCTURE
5	DETAILS
6	MARCH 195

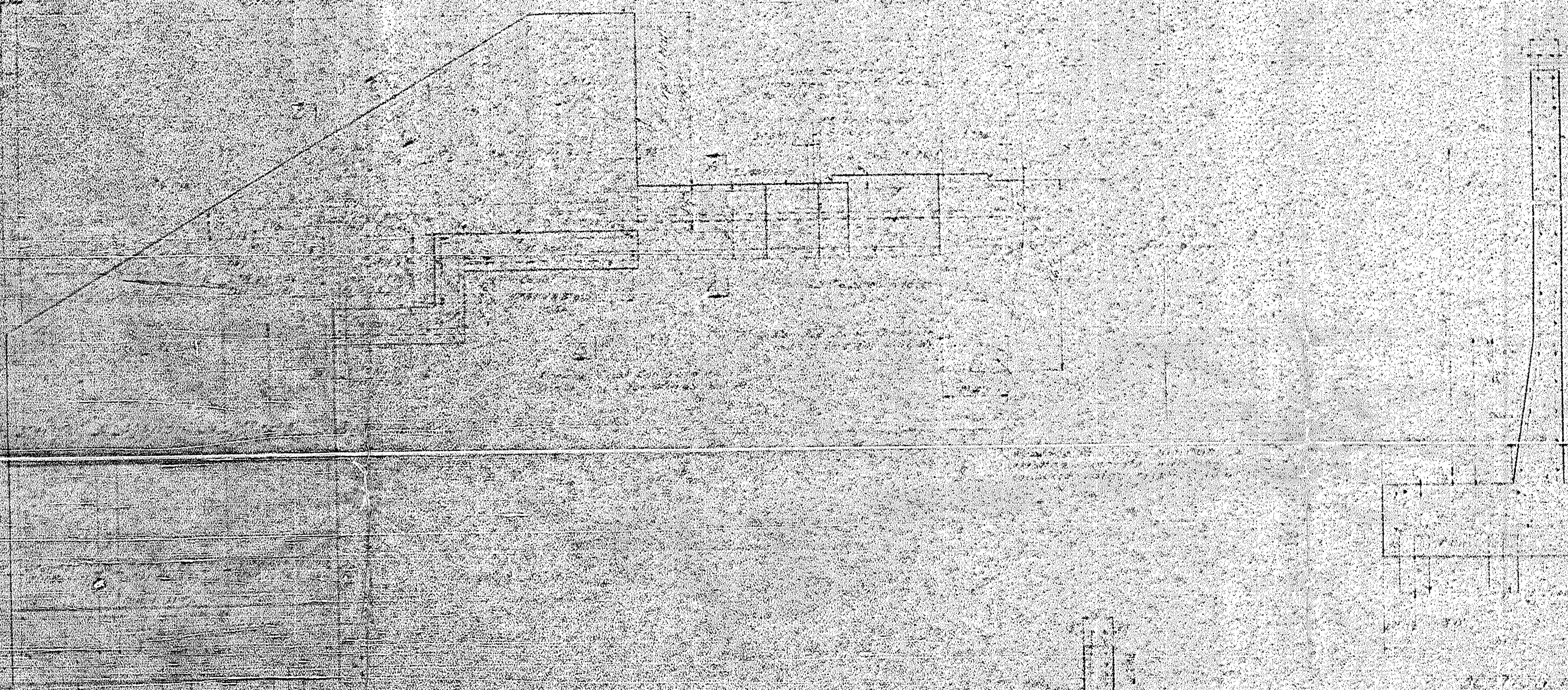


SUMMARY OF MATERIAL FOR 10 SPANS

NO.	SIZE	TYPE	NO.	SIZE	TYPE	LENGTH	WEIGHT
1	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
2	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
3	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
4	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
5	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
6	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
7	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
8	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
9	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
10	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
11	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
12	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
13	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
14	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
15	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
16	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
17	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
18	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
19	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
20	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
21	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
22	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
23	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
24	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
25	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
26	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
27	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
28	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
29	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
30	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
31	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
32	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
33	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
34	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
35	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
36	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
37	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
38	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
39	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
40	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
41	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
42	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
43	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
44	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
45	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
46	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
47	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
48	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
49	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000
50	12" x 12"	CONCRETE	10	10' 0"	SPAN	100	1000

PROJECT NO. 51902
 CHATHAM COUNTY
 STATION: 167.00

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION
 SUPERSTRUCTURE
 DETAILS
 MARCH 1932



PROJECT NO. 7-10

COUNTY

STATION: 7+10

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

APPROVED FOR
DATE: 10/10/50

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LINE NO.	DESCRIPTION	AMOUNT	DATE	BY	REMARKS
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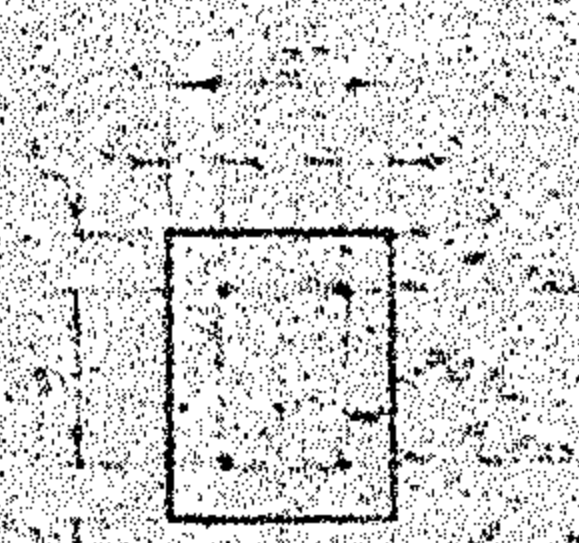
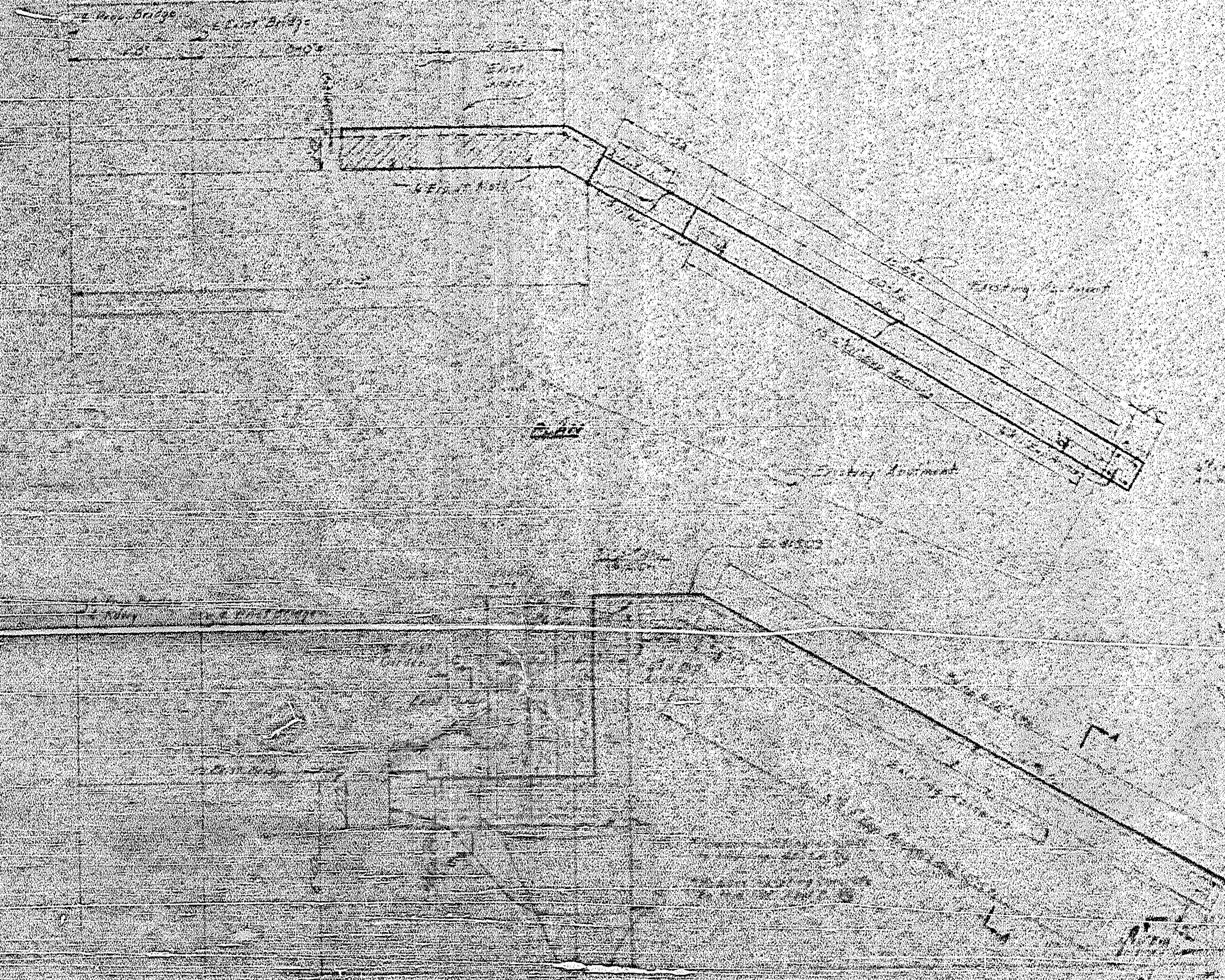
Right of Way
 75' of Highway
 P. 5114
 5115

PROJECT NO. _____
 COUNTY _____
 STATION _____

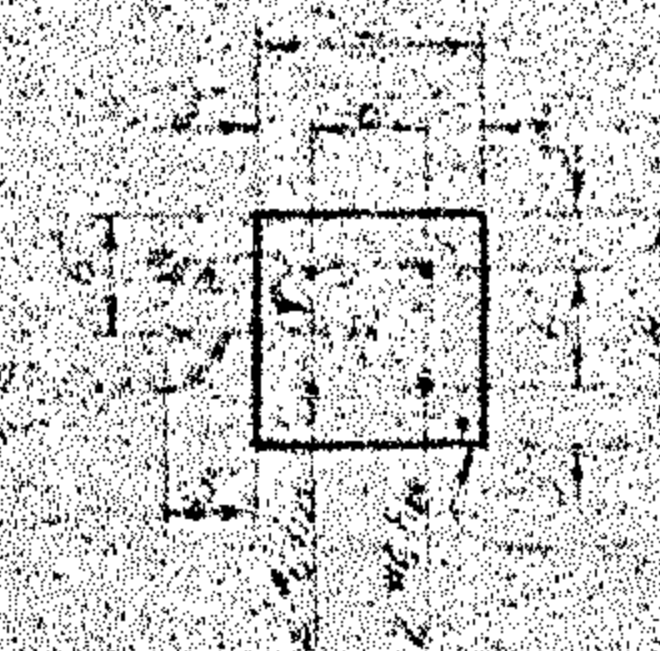
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

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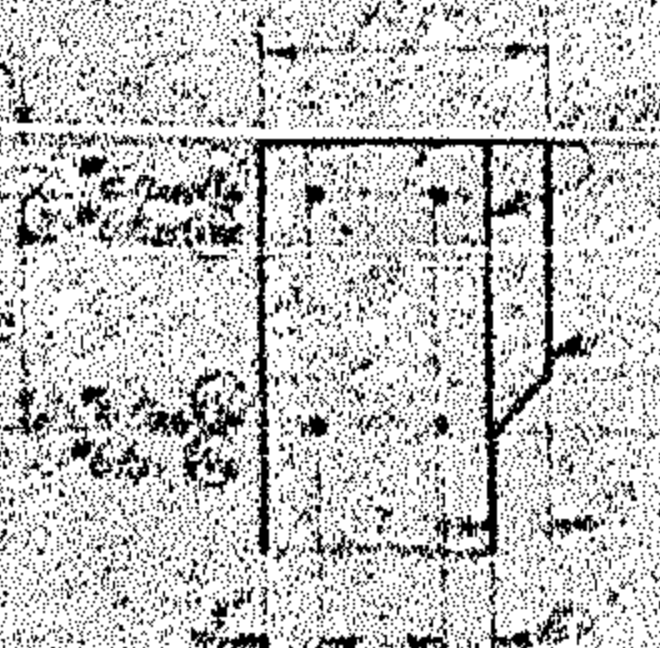
APPROVED BY _____
 DATE _____



SECTION A-A



SECTION B-B

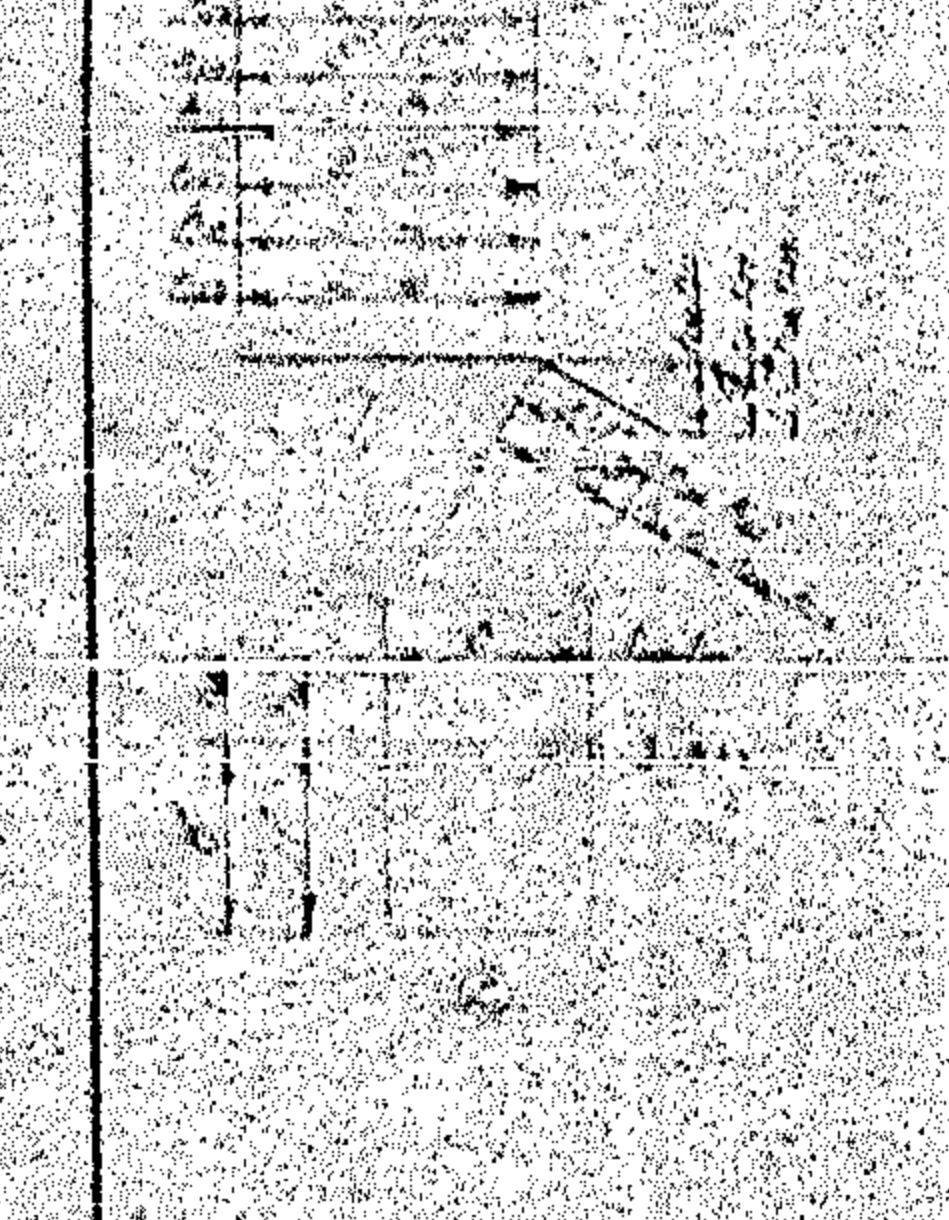


SECTION C-C

**BILL OF MATERIAL
FOR WING - 2 REQ'D**

NO.	DESCRIPTION	QTY	UNIT	REMARKS
1	Concrete	12.0	cu yd	
2	Reinforcing Steel	1.2	tons	
3	Formwork	100	sq ft	
4	Gravel	10	cu yd	
5	Earth	20	cu yd	
6	Paint	10	gals	
7	Oil	5	gals	
8	Gravel	10	cu yd	
9	Earth	20	cu yd	
10	Concrete	12.0	cu yd	
11	Reinforcing Steel	1.2	tons	
12	Formwork	100	sq ft	
13	Gravel	10	cu yd	
14	Earth	20	cu yd	
15	Concrete	12.0	cu yd	
16	Reinforcing Steel	1.2	tons	
17	Formwork	100	sq ft	
18	Gravel	10	cu yd	
19	Earth	20	cu yd	
20	Concrete	12.0	cu yd	
21	Reinforcing Steel	1.2	tons	
22	Formwork	100	sq ft	
23	Gravel	10	cu yd	
24	Earth	20	cu yd	
25	Concrete	12.0	cu yd	
26	Reinforcing Steel	1.2	tons	
27	Formwork	100	sq ft	
28	Gravel	10	cu yd	
29	Earth	20	cu yd	
30	Concrete	12.0	cu yd	
31	Reinforcing Steel	1.2	tons	
32	Formwork	100	sq ft	
33	Gravel	10	cu yd	
34	Earth	20	cu yd	
35	Concrete	12.0	cu yd	
36	Reinforcing Steel	1.2	tons	
37	Formwork	100	sq ft	
38	Gravel	10	cu yd	
39	Earth	20	cu yd	
40	Concrete	12.0	cu yd	
41	Reinforcing Steel	1.2	tons	
42	Formwork	100	sq ft	
43	Gravel	10	cu yd	
44	Earth	20	cu yd	
45	Concrete	12.0	cu yd	
46	Reinforcing Steel	1.2	tons	
47	Formwork	100	sq ft	
48	Gravel	10	cu yd	
49	Earth	20	cu yd	
50	Concrete	12.0	cu yd	
51	Reinforcing Steel	1.2	tons	
52	Formwork	100	sq ft	
53	Gravel	10	cu yd	
54	Earth	20	cu yd	
55	Concrete	12.0	cu yd	
56	Reinforcing Steel	1.2	tons	
57	Formwork	100	sq ft	
58	Gravel	10	cu yd	
59	Earth	20	cu yd	
60	Concrete	12.0	cu yd	
61	Reinforcing Steel	1.2	tons	
62	Formwork	100	sq ft	
63	Gravel	10	cu yd	
64	Earth	20	cu yd	
65	Concrete	12.0	cu yd	
66	Reinforcing Steel	1.2	tons	
67	Formwork	100	sq ft	
68	Gravel	10	cu yd	
69	Earth	20	cu yd	
70	Concrete	12.0	cu yd	
71	Reinforcing Steel	1.2	tons	
72	Formwork	100	sq ft	
73	Gravel	10	cu yd	
74	Earth	20	cu yd	
75	Concrete	12.0	cu yd	
76	Reinforcing Steel	1.2	tons	
77	Formwork	100	sq ft	
78	Gravel	10	cu yd	
79	Earth	20	cu yd	
80	Concrete	12.0	cu yd	
81	Reinforcing Steel	1.2	tons	
82	Formwork	100	sq ft	
83	Gravel	10	cu yd	
84	Earth	20	cu yd	
85	Concrete	12.0	cu yd	
86	Reinforcing Steel	1.2	tons	
87	Formwork	100	sq ft	
88	Gravel	10	cu yd	
89	Earth	20	cu yd	
90	Concrete	12.0	cu yd	
91	Reinforcing Steel	1.2	tons	
92	Formwork	100	sq ft	
93	Gravel	10	cu yd	
94	Earth	20	cu yd	
95	Concrete	12.0	cu yd	
96	Reinforcing Steel	1.2	tons	
97	Formwork	100	sq ft	
98	Gravel	10	cu yd	
99	Earth	20	cu yd	
100	Concrete	12.0	cu yd	

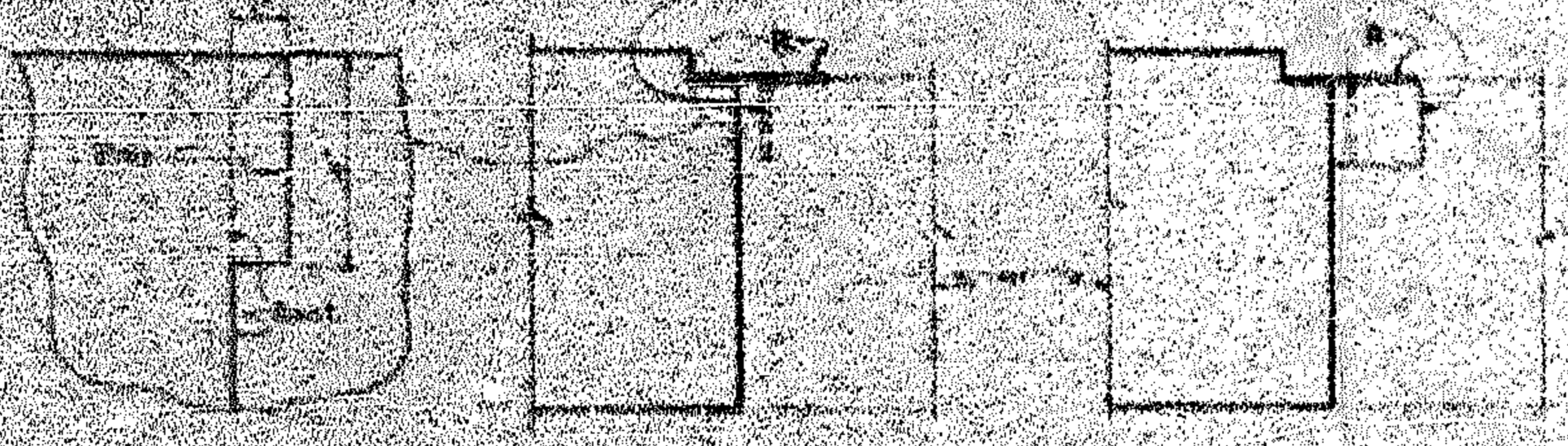
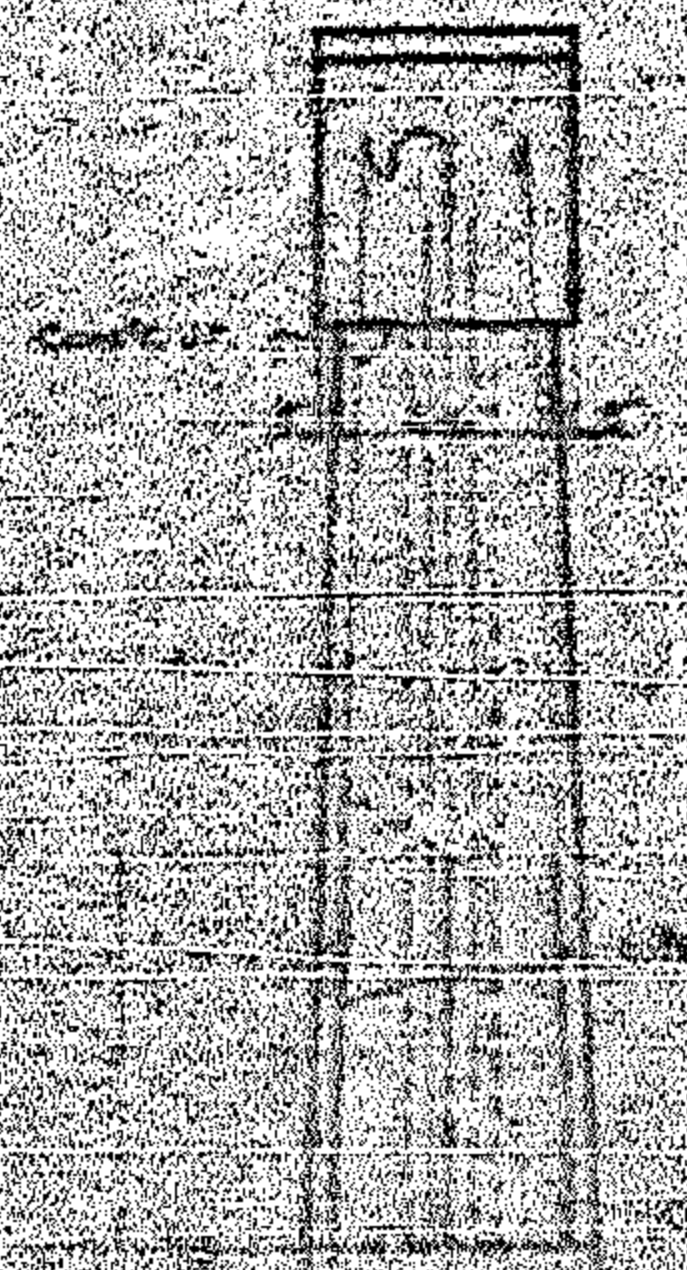
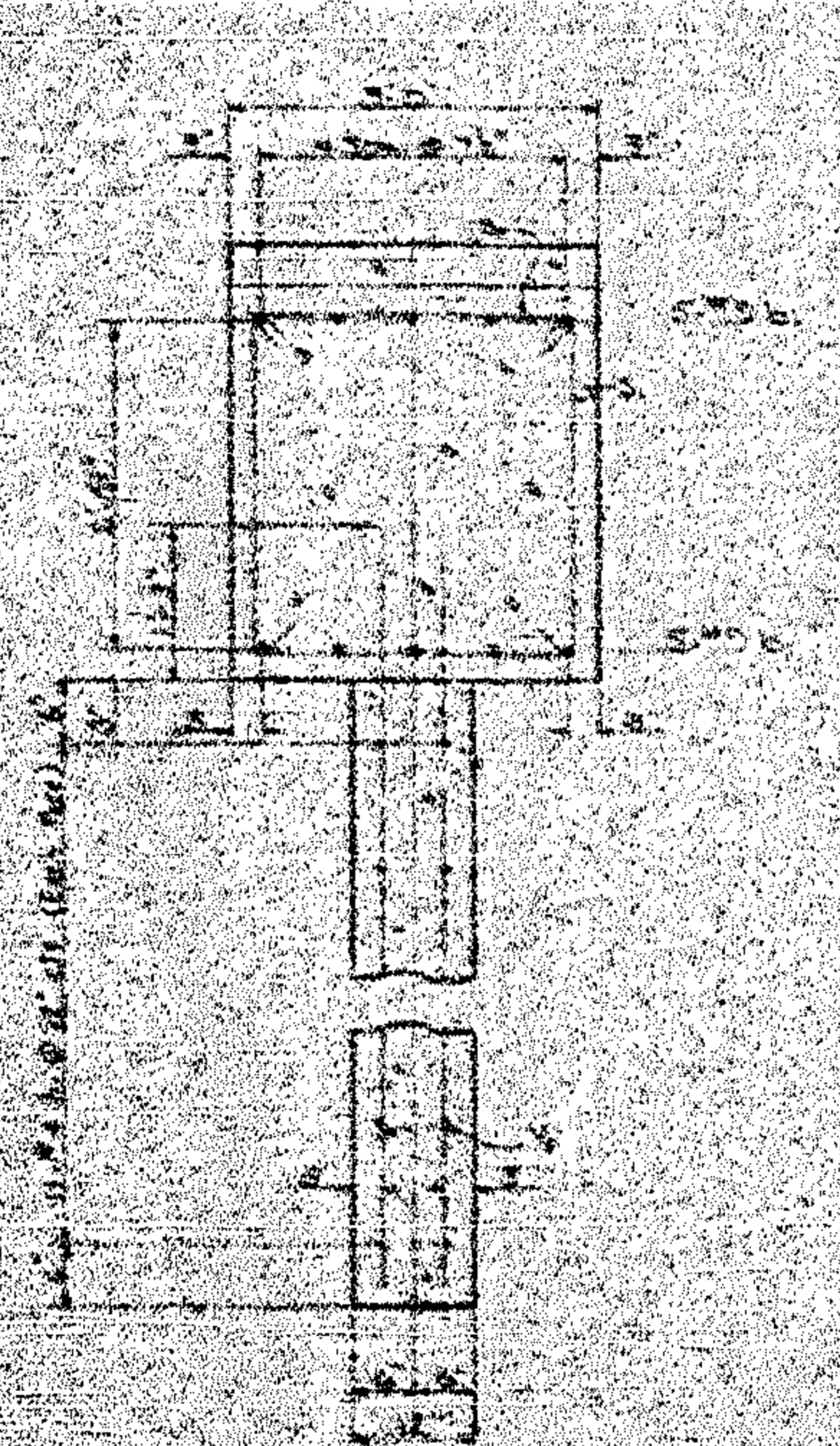
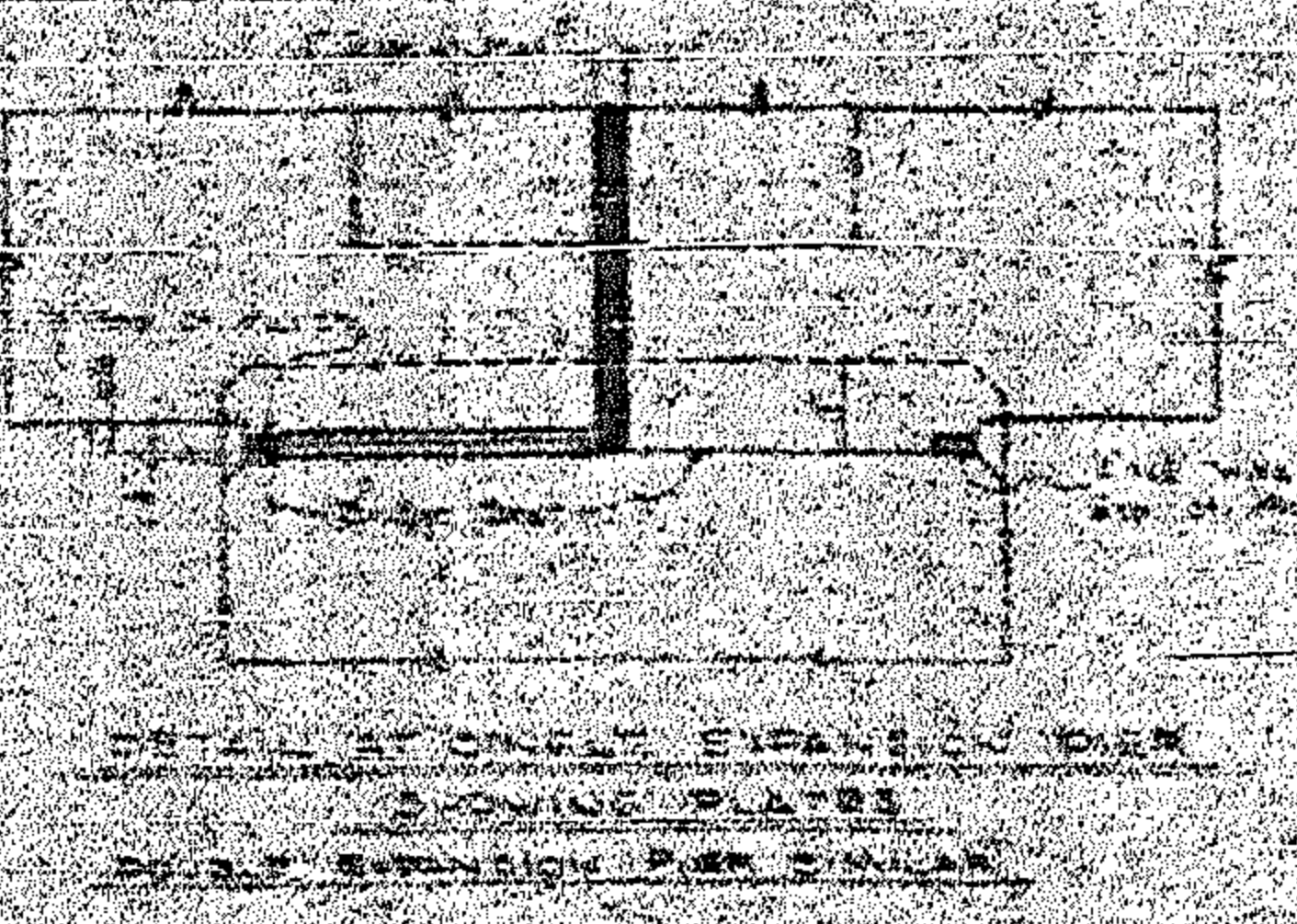
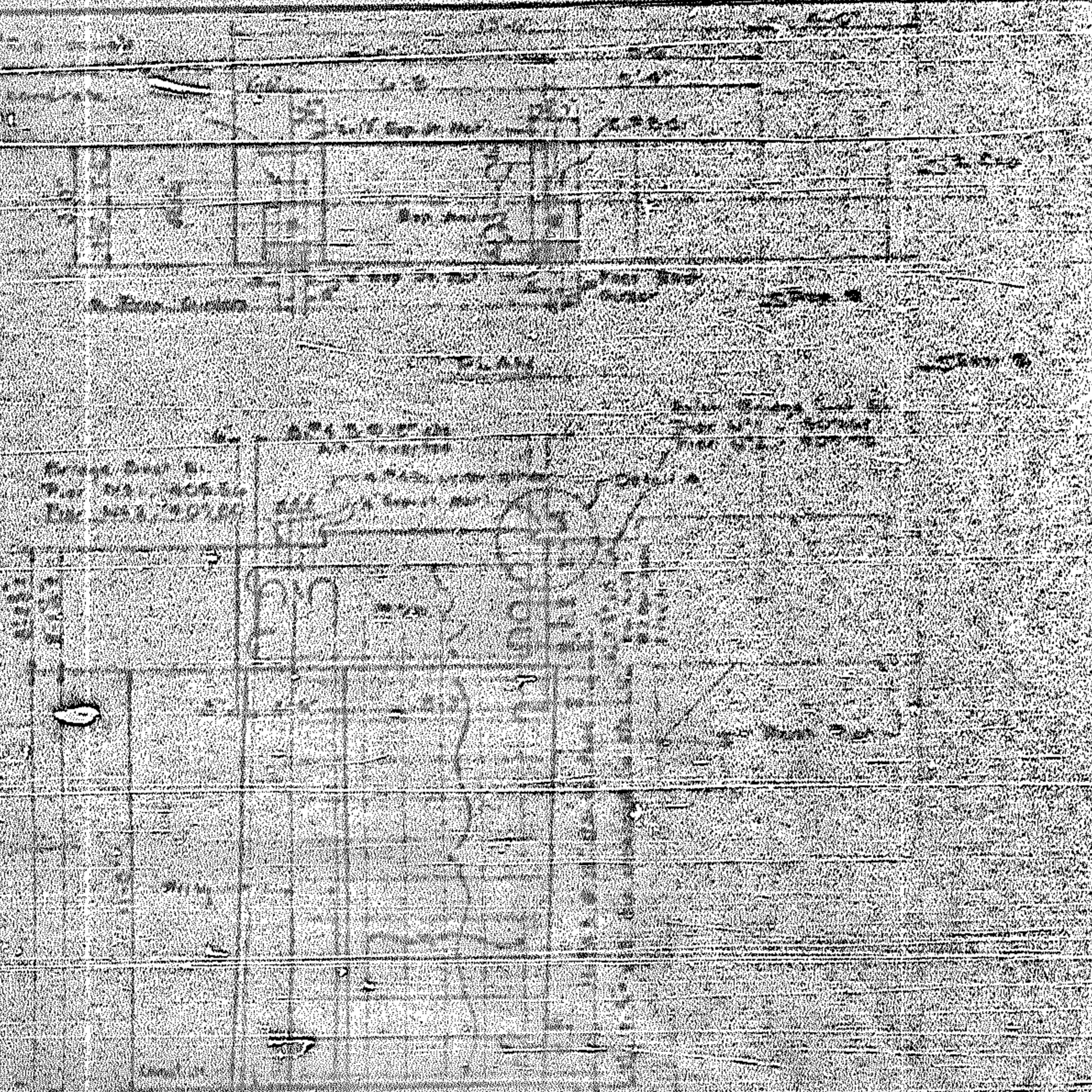
BAR TYPES



Notes and specifications for the bill of material, including details on material quality and construction requirements.

PROJECT No. 0.1404
LEE, CRATHAM, COUNTY
STATION: 15.7 + 25

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
 SUBSTRUCTURE
 ABUTMENT AND WIDENING
 WINGS W & W₁



BILL OF MATERIAL
PIER NO. 152

NO.	QTY.	SIZE	TYPE	LENGTH	WEIGHT
1	10	#5	S	10'-0"	745
2	3	#5	S	1'-0"	40
3	3	#5	S	6'-7"	97
4	6	#1	S	3'-0"	404
5	5	#6	S	5'-11"	83
6	4	#6	S	3'-5"	9
7	16	#6	S	8'-4"	65
8	10	#6	S	6'-6"	57
9	1	#10	S	2'-0"	45
10	1	#10	S	2'-0"	45
11	1	#10	S	2'-0"	45
12	1	#10	S	2'-0"	45
13	1	#10	S	2'-0"	45
14	1	#10	S	2'-0"	45
15	1	#10	S	2'-0"	45
16	1	#10	S	2'-0"	45
17	1	#10	S	2'-0"	45
18	1	#10	S	2'-0"	45
19	1	#10	S	2'-0"	45
20	1	#10	S	2'-0"	45
21	1	#10	S	2'-0"	45
22	1	#10	S	2'-0"	45
23	1	#10	S	2'-0"	45
24	1	#10	S	2'-0"	45
25	1	#10	S	2'-0"	45
26	1	#10	S	2'-0"	45
27	1	#10	S	2'-0"	45
28	1	#10	S	2'-0"	45
29	1	#10	S	2'-0"	45
30	1	#10	S	2'-0"	45
31	1	#10	S	2'-0"	45
32	1	#10	S	2'-0"	45
33	1	#10	S	2'-0"	45
34	1	#10	S	2'-0"	45
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36	1	#10	S	2'-0"	45
37	1	#10	S	2'-0"	45
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39	1	#10	S	2'-0"	45
40	1	#10	S	2'-0"	45
41	1	#10	S	2'-0"	45
42	1	#10	S	2'-0"	45
43	1	#10	S	2'-0"	45
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45	1	#10	S	2'-0"	45
46	1	#10	S	2'-0"	45
47	1	#10	S	2'-0"	45
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52	1	#10	S	2'-0"	45
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54	1	#10	S	2'-0"	45
55	1	#10	S	2'-0"	45
56	1	#10	S	2'-0"	45
57	1	#10	S	2'-0"	45
58	1	#10	S	2'-0"	45
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61	1	#10	S	2'-0"	45
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67	1	#10	S	2'-0"	45
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70	1	#10	S	2'-0"	45
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77	1	#10	S	2'-0"	45
78	1	#10	S	2'-0"	45
79	1	#10	S	2'-0"	45
80	1	#10	S	2'-0"	45
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97	1	#10	S	2'-0"	45
98	1	#10	S	2'-0"	45
99	1	#10	S	2'-0"	45
100	1	#10	S	2'-0"	45

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
 ALBANY

PROJECT NO. 814043
 LEE-CHATHAM COUNTY
 STATION 167+00

PIER NO. 152

MARCH 1959

REVISION

NO.	BY	DATE	DESCRIPTION
1			
2			
3			
4			
5			

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
 ALBANY

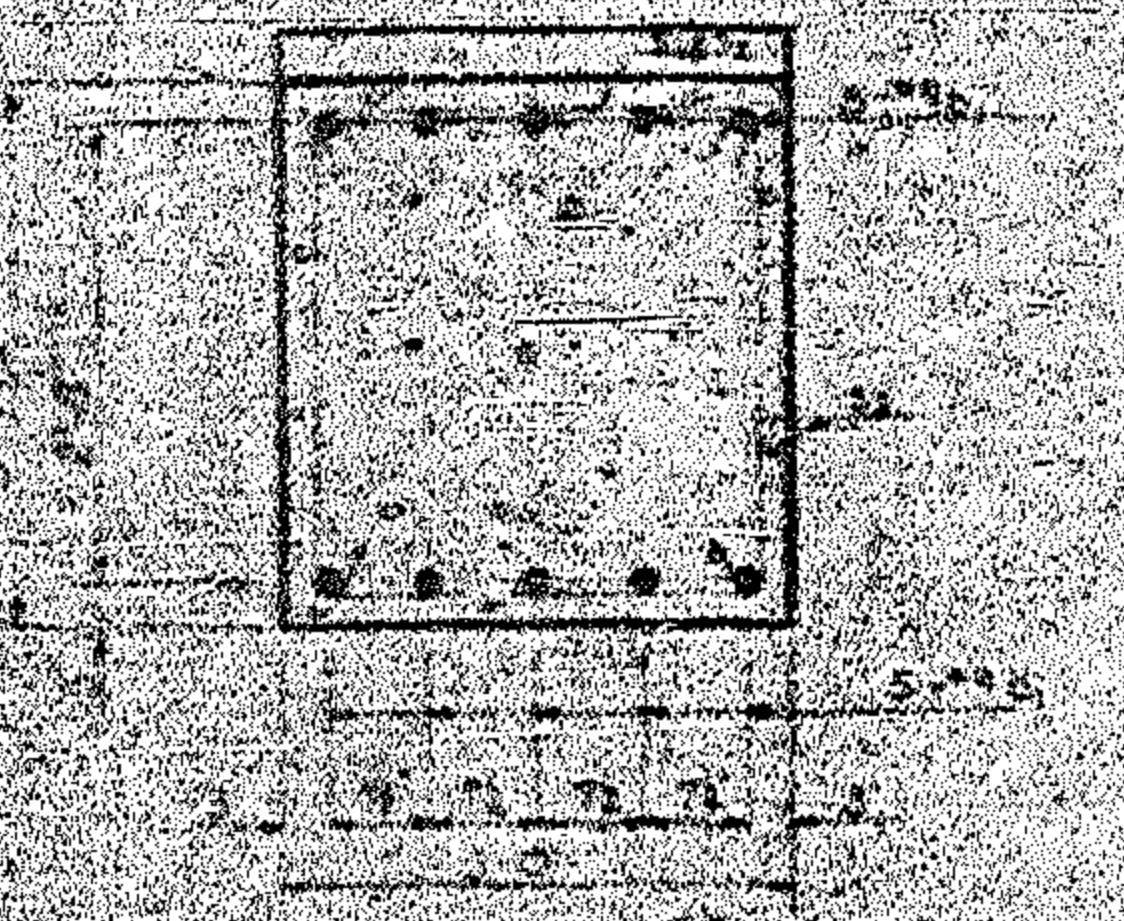
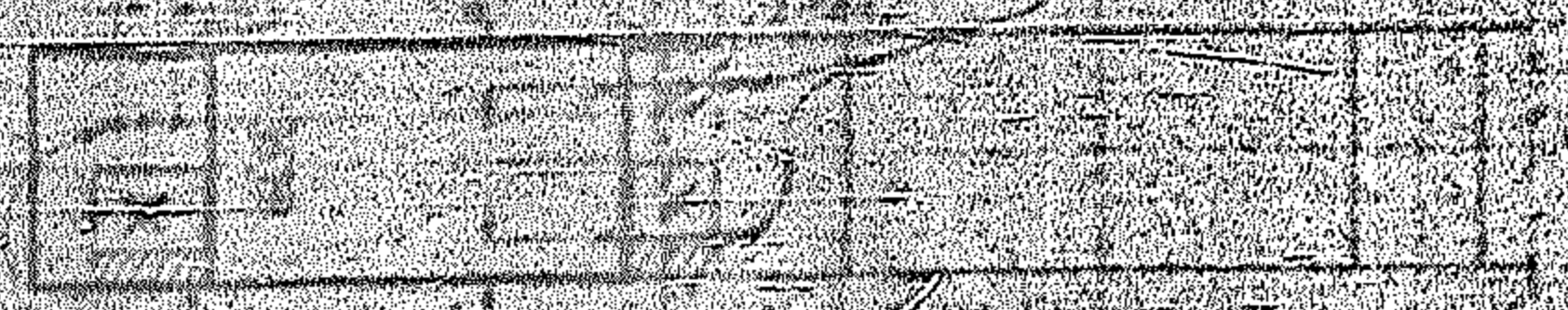
PROJECT NO. 814043
 LEE-CHATHAM COUNTY
 STATION 167+00

PIER NO. 152

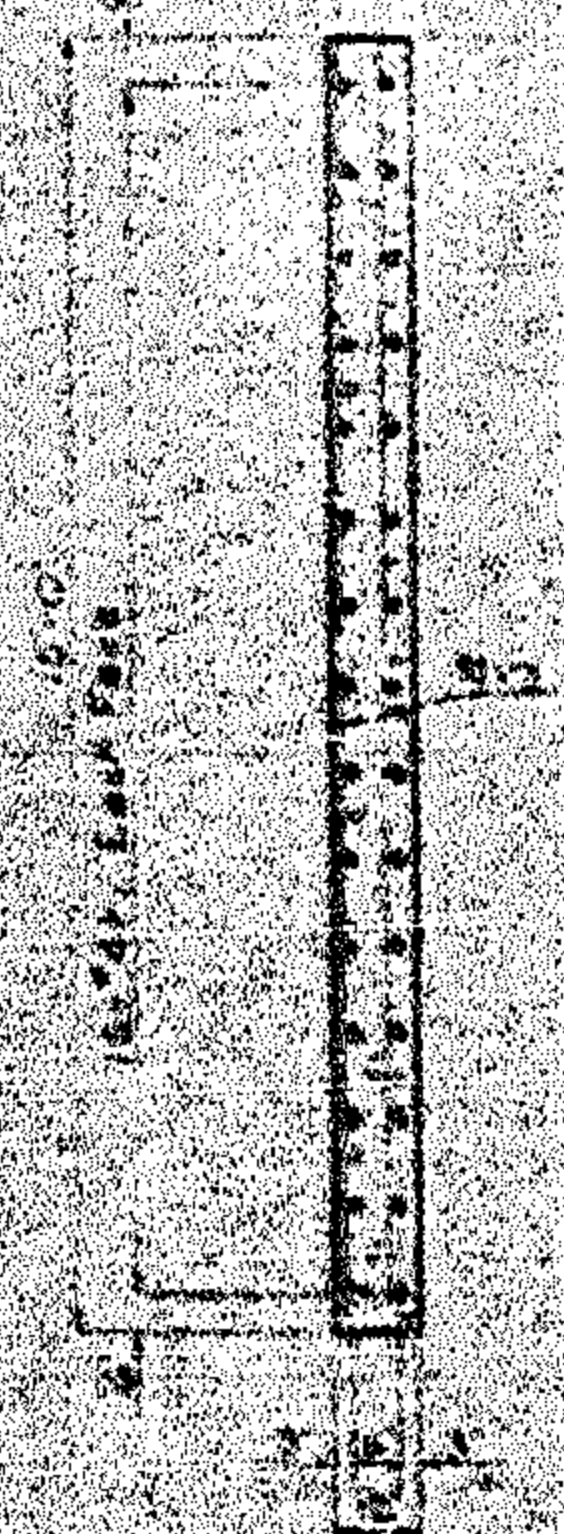
MARCH 1959

REVISION

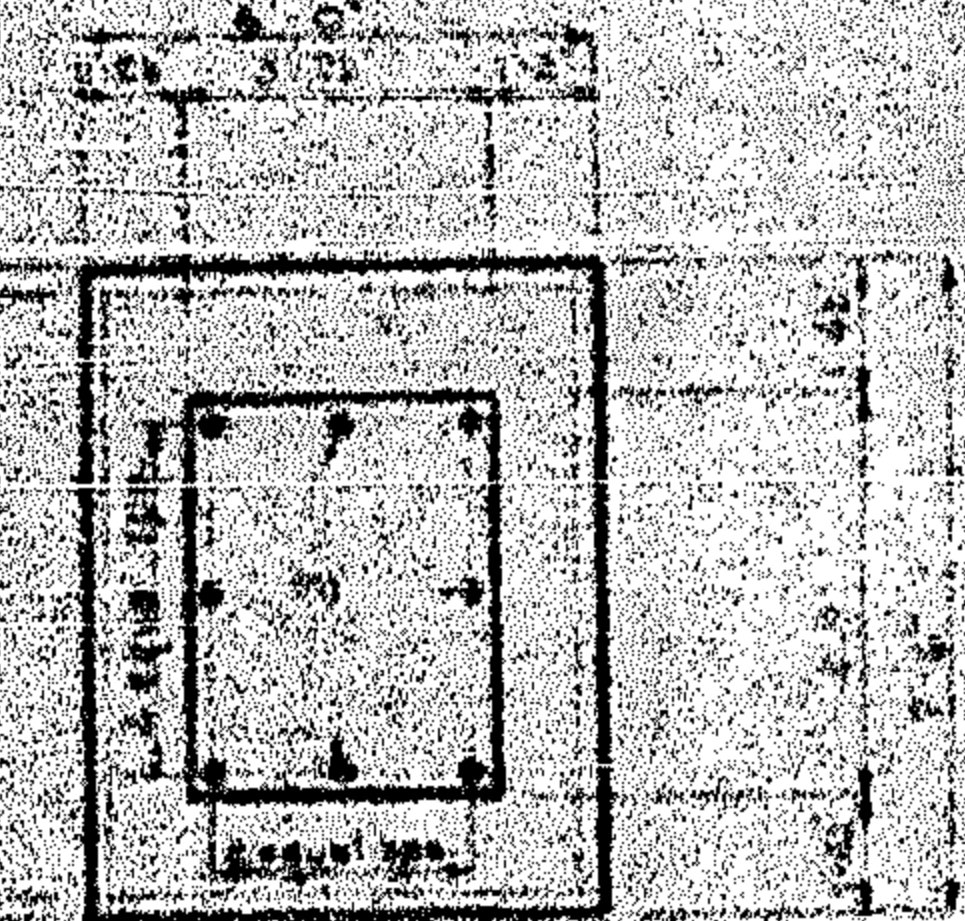
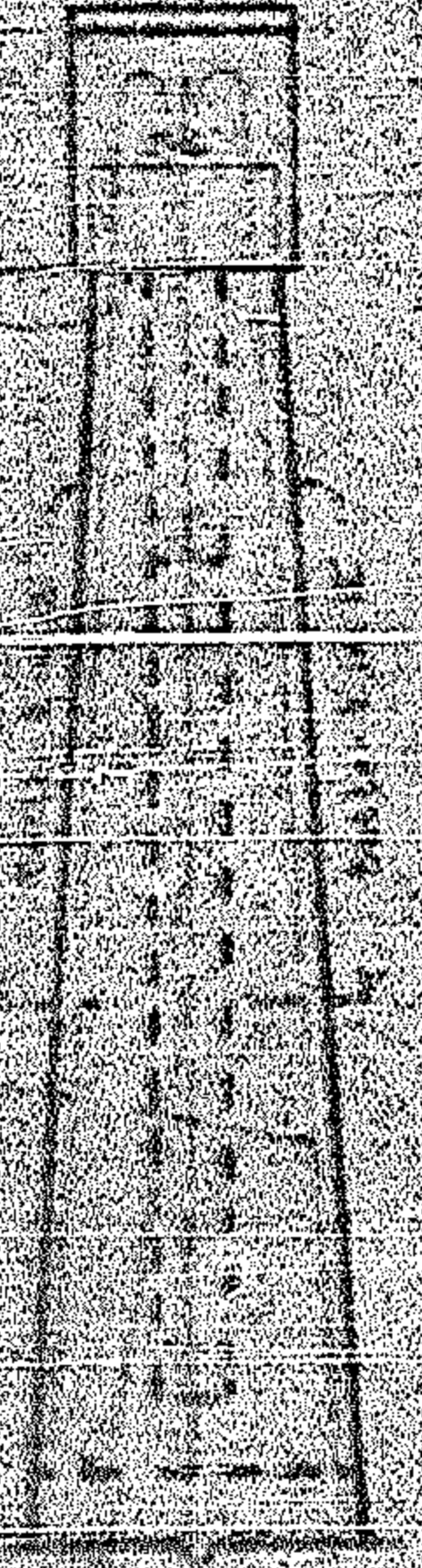
NO.	BY	DATE	DESCRIPTION
1			
2			
3			
4			
5			



TYPICAL SECTION THROUGH CAP



TYPICAL SECTION WEB



FOOTINGS PLAN

BAR DETAILS

All dimensions are out to out.

Typical Lap Lead Sleeve (Lead metal only)

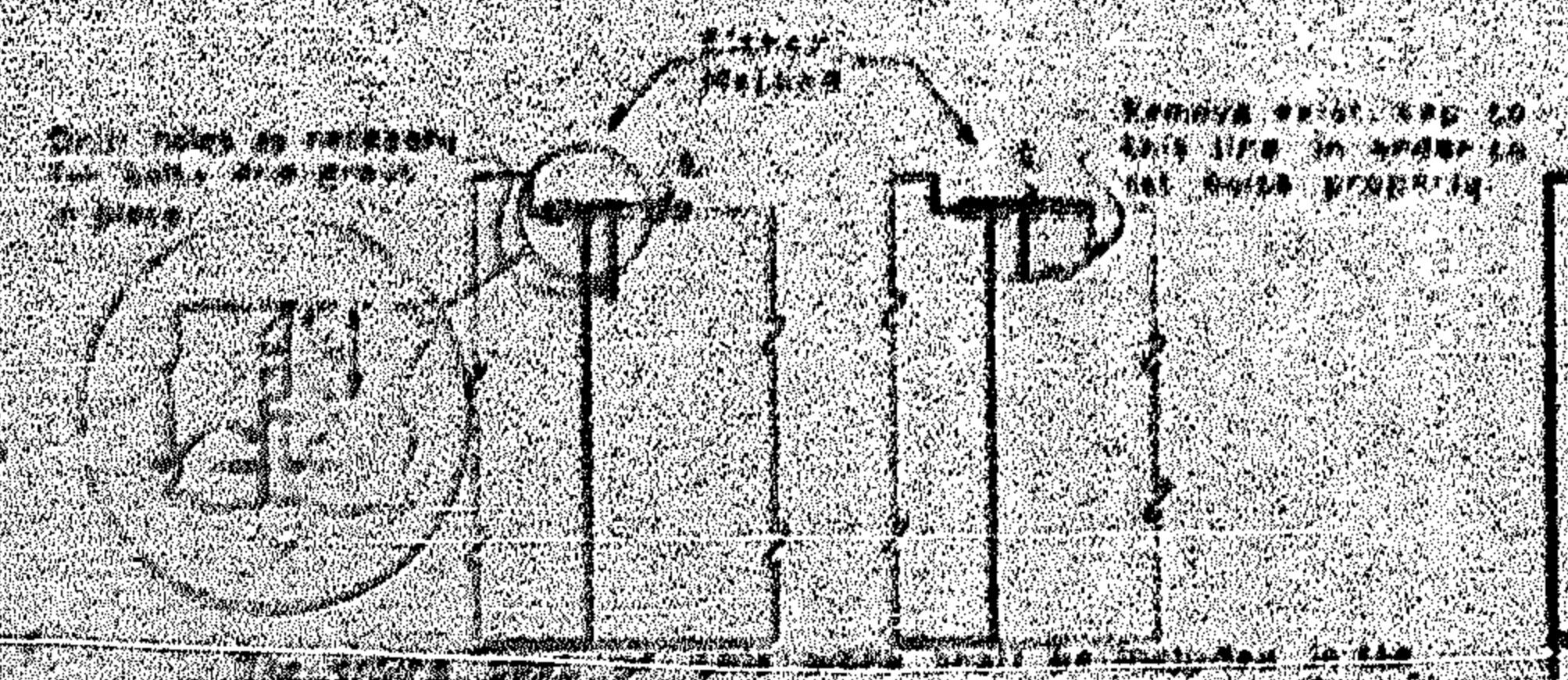
Detail Expansion Anchor
Anchors shall be American
Expansion Anchors or
approved equal.

BILL OF MATERIAL

PIER No. 3

Bar	No	Size	Type	Length	Weight
b	10	#3	L	1'-2"	45
bl	2	#3	Str	2'-0"	40
bl	30	#4	Str	4'-0"	150
bl	2	#3	L	3'-0"	121
bl	2	#4	L	4'-0"	99
bl	7	#4	L	1'-0"	7
bl	12	#4	L	2'-0"	5
bl	10	#4	L	2'-0"	5
ya	2	#11	L	20'-0"	650
ya	2	#11	Str	18'-0"	510
ya	10	#4	Str	16'-1"	187

Class 71 concrete
E/OTV



The above work shall be done in accordance with the specifications and plans for this project.

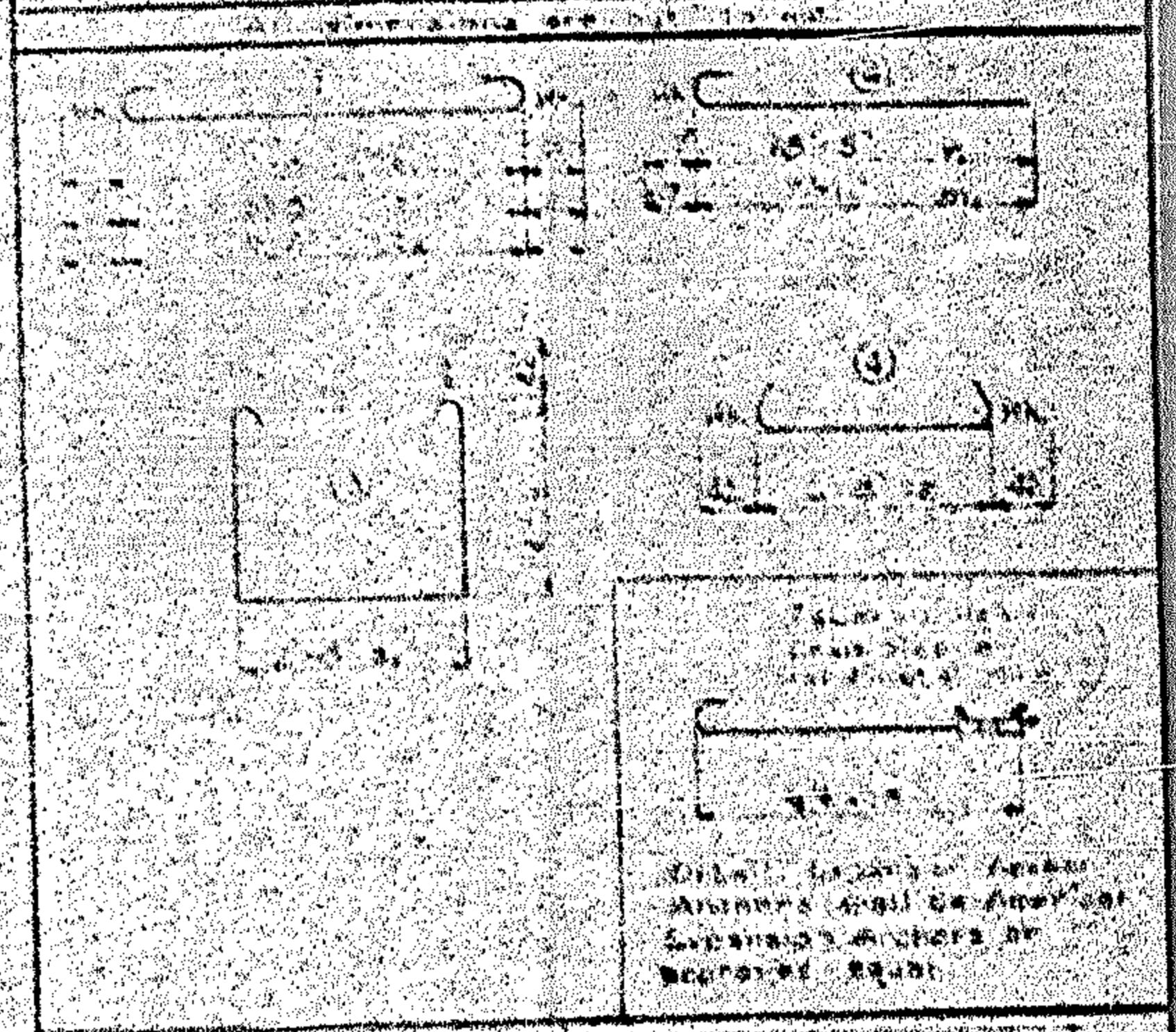
PROJECT No. 014043
 10 - CHATHAM COUNTY
 STATION 167 + 31

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
 DIVISION
 PIER NO. 3

MARCH 1943

NO.	DATE	BY	OF	TYPE

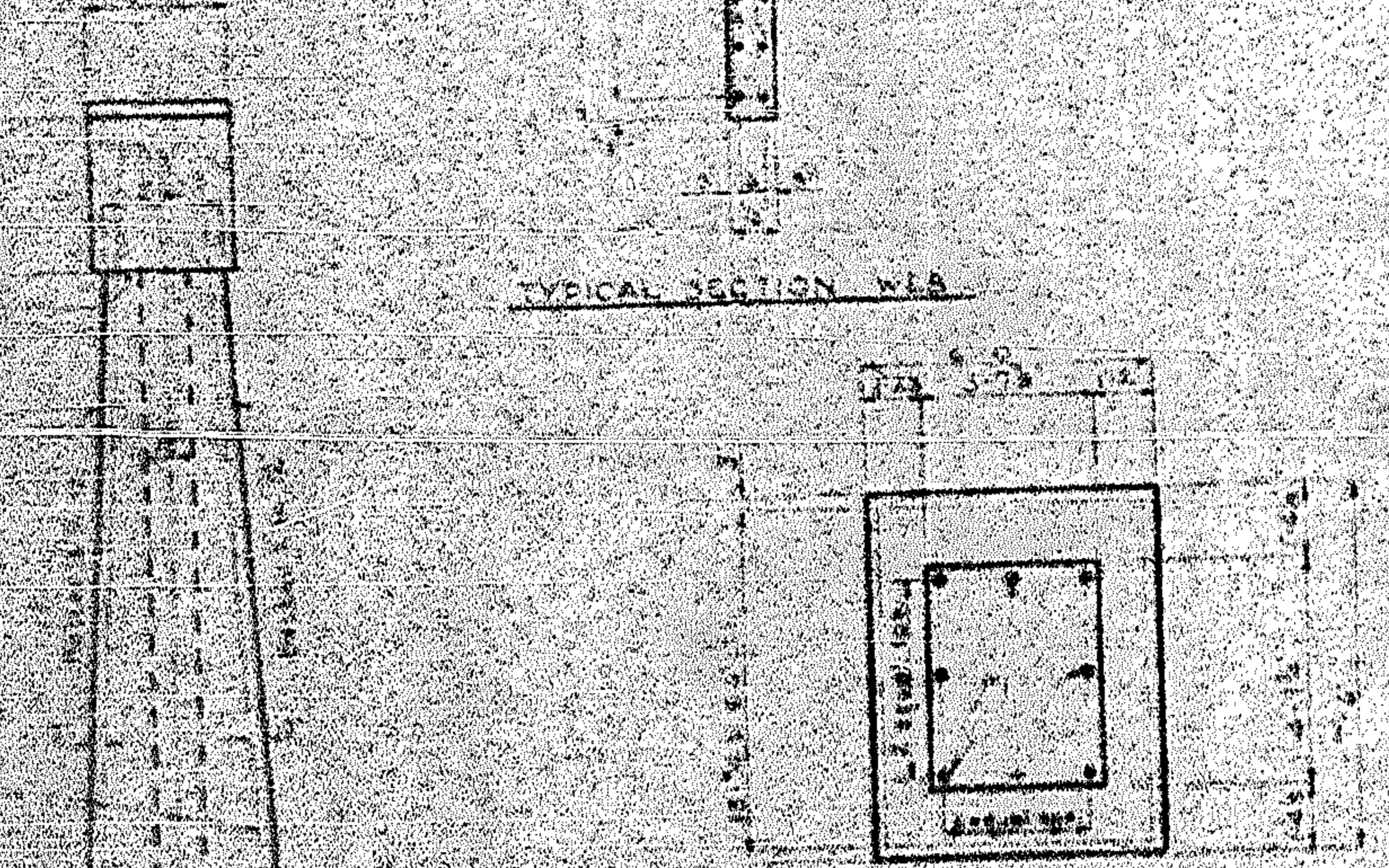
BAR DETAILS



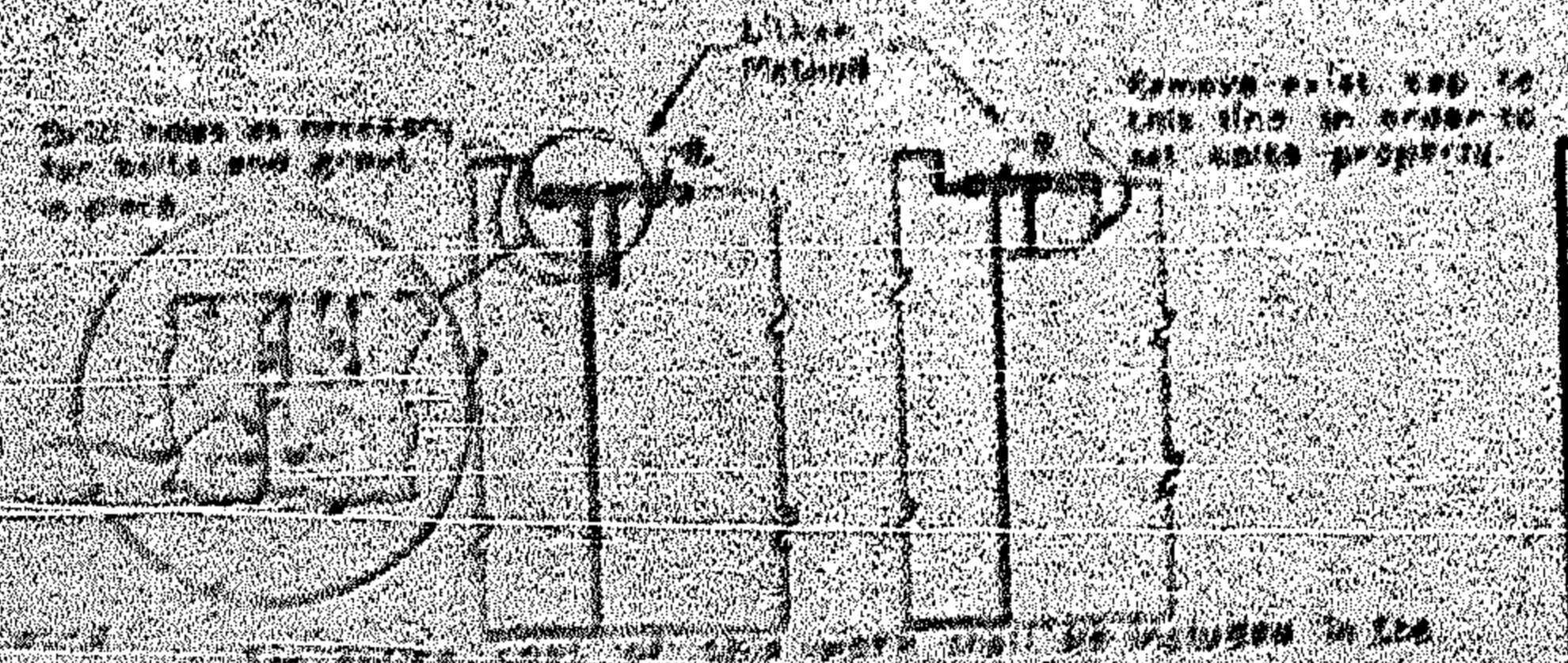
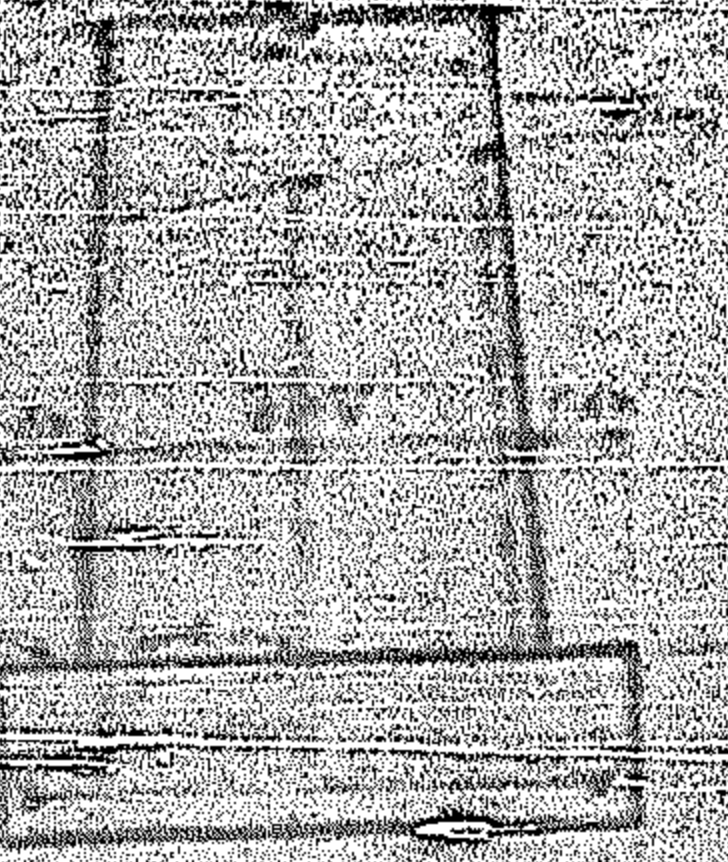
BILL OF MATERIAL

Bar	No.	Size	Type	Length	Weight
A	2	#4	S	10.0	32.0
B	2	#4	S	10.0	32.0
C	2	#4	S	10.0	32.0
D	2	#4	S	10.0	32.0
E	2	#4	S	10.0	32.0
F	2	#4	S	10.0	32.0
G	2	#4	S	10.0	32.0
H	2	#4	S	10.0	32.0
I	2	#4	S	10.0	32.0
J	2	#4	S	10.0	32.0
K	2	#4	S	10.0	32.0
L	2	#4	S	10.0	32.0
M	2	#4	S	10.0	32.0
N	2	#4	S	10.0	32.0
O	2	#4	S	10.0	32.0
P	2	#4	S	10.0	32.0
Q	2	#4	S	10.0	32.0
R	2	#4	S	10.0	32.0
S	2	#4	S	10.0	32.0
T	2	#4	S	10.0	32.0
U	2	#4	S	10.0	32.0
V	2	#4	S	10.0	32.0
W	2	#4	S	10.0	32.0
X	2	#4	S	10.0	32.0
Y	2	#4	S	10.0	32.0
Z	2	#4	S	10.0	32.0

TYPICAL SECTION WEB



FOOTING PLAN



PROJECT NO. 51643

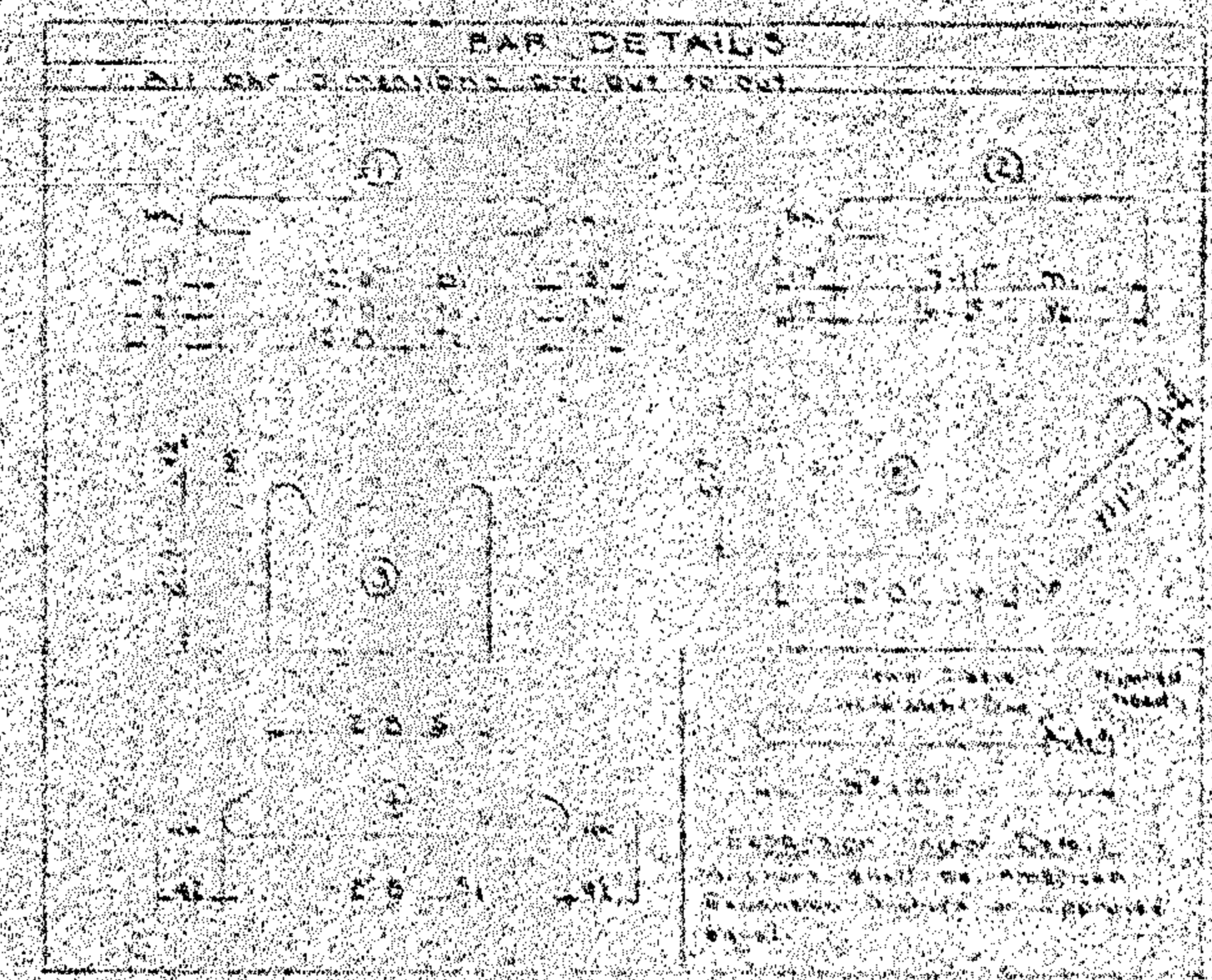
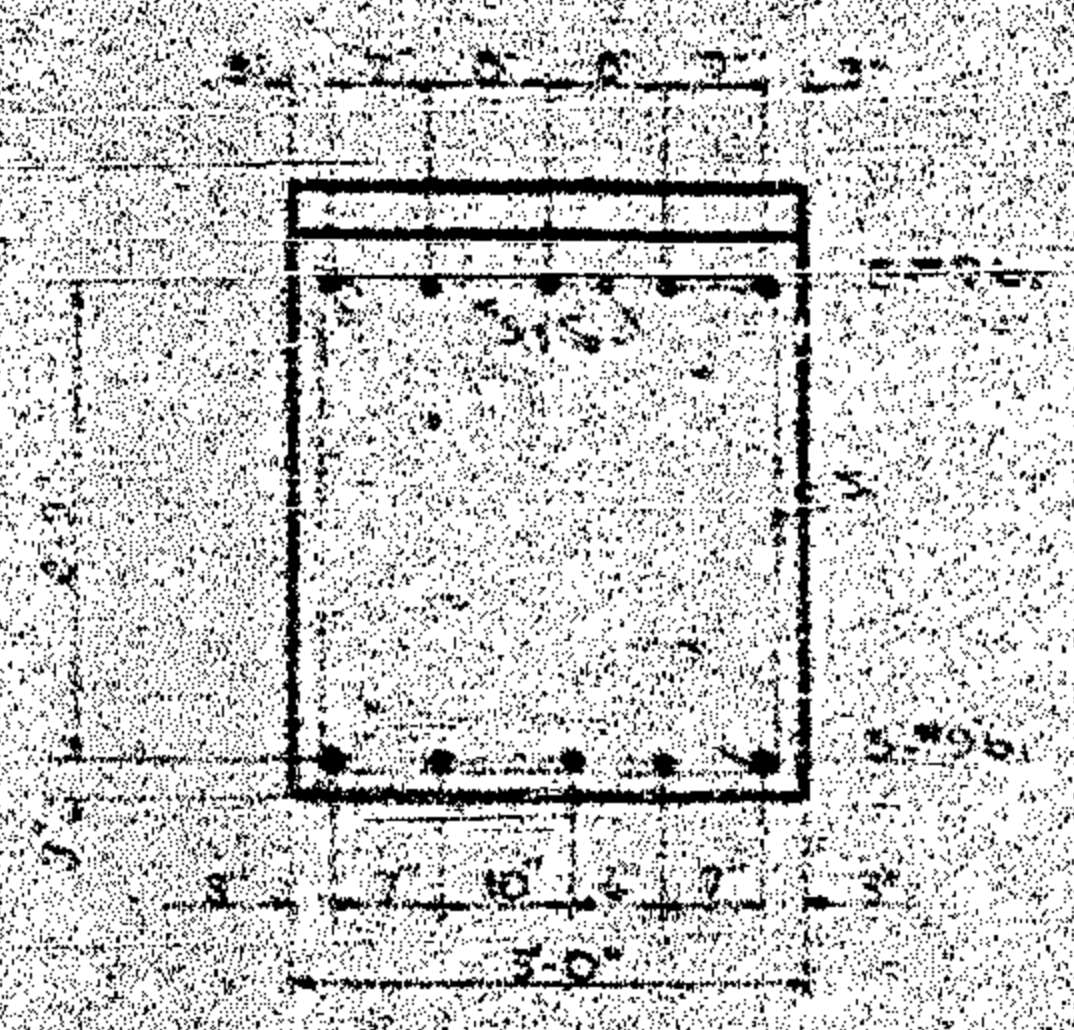
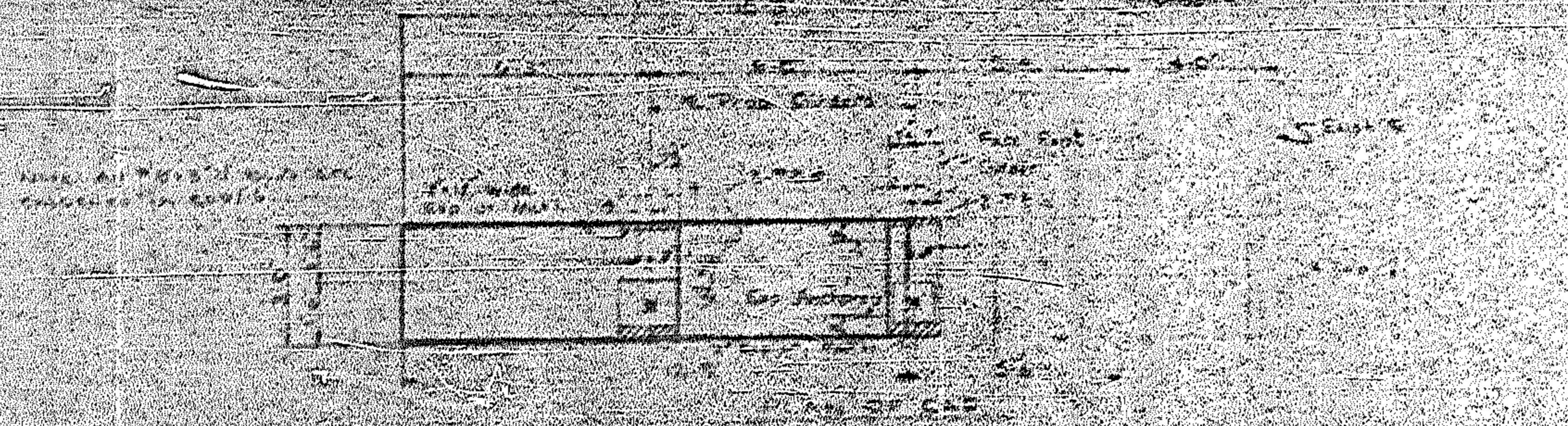
III - CHATHAM COUNTY

STATION 167 + 86

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
P.L.C. 191
PIER NO. 4

MARCH 1968

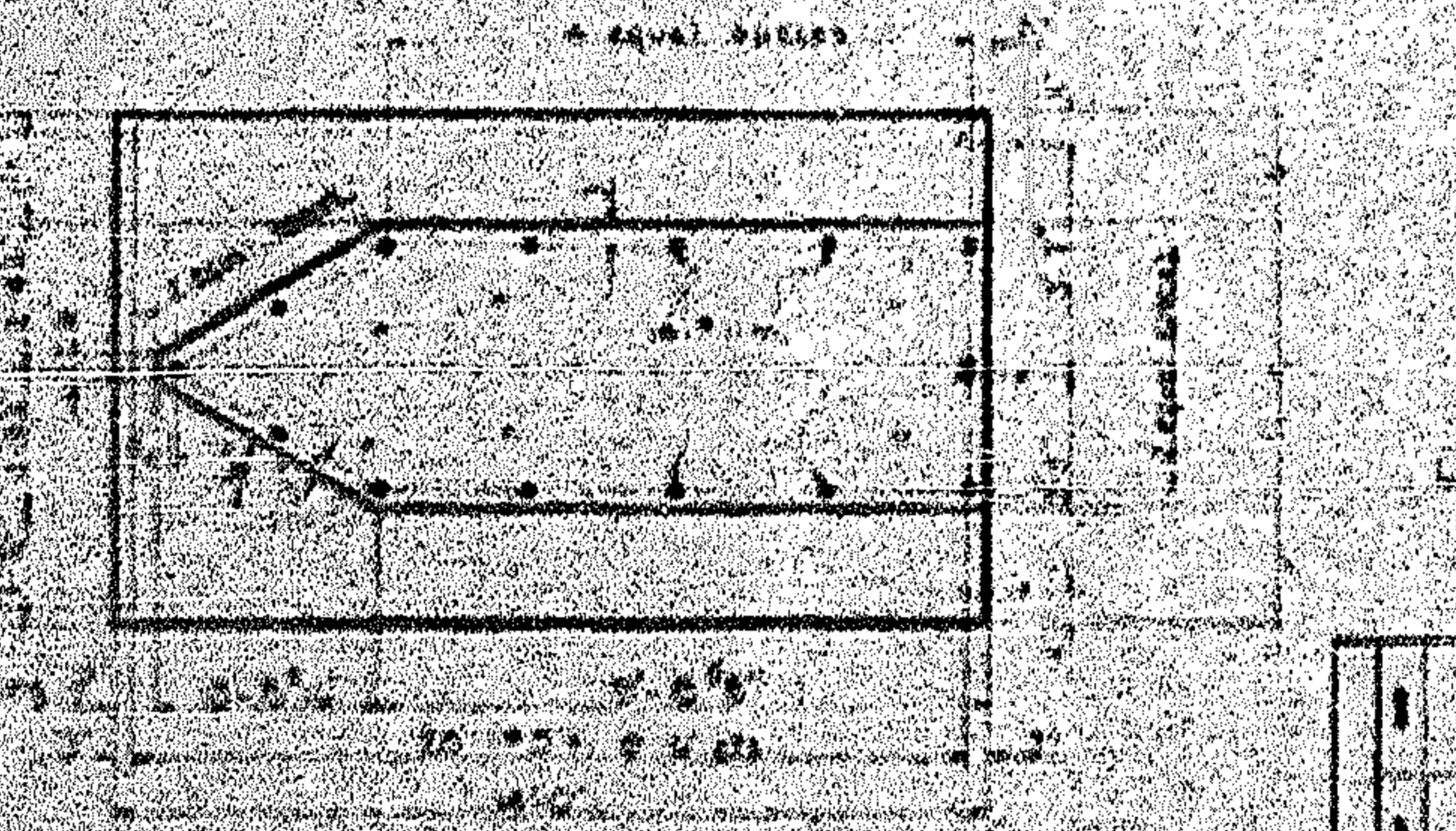
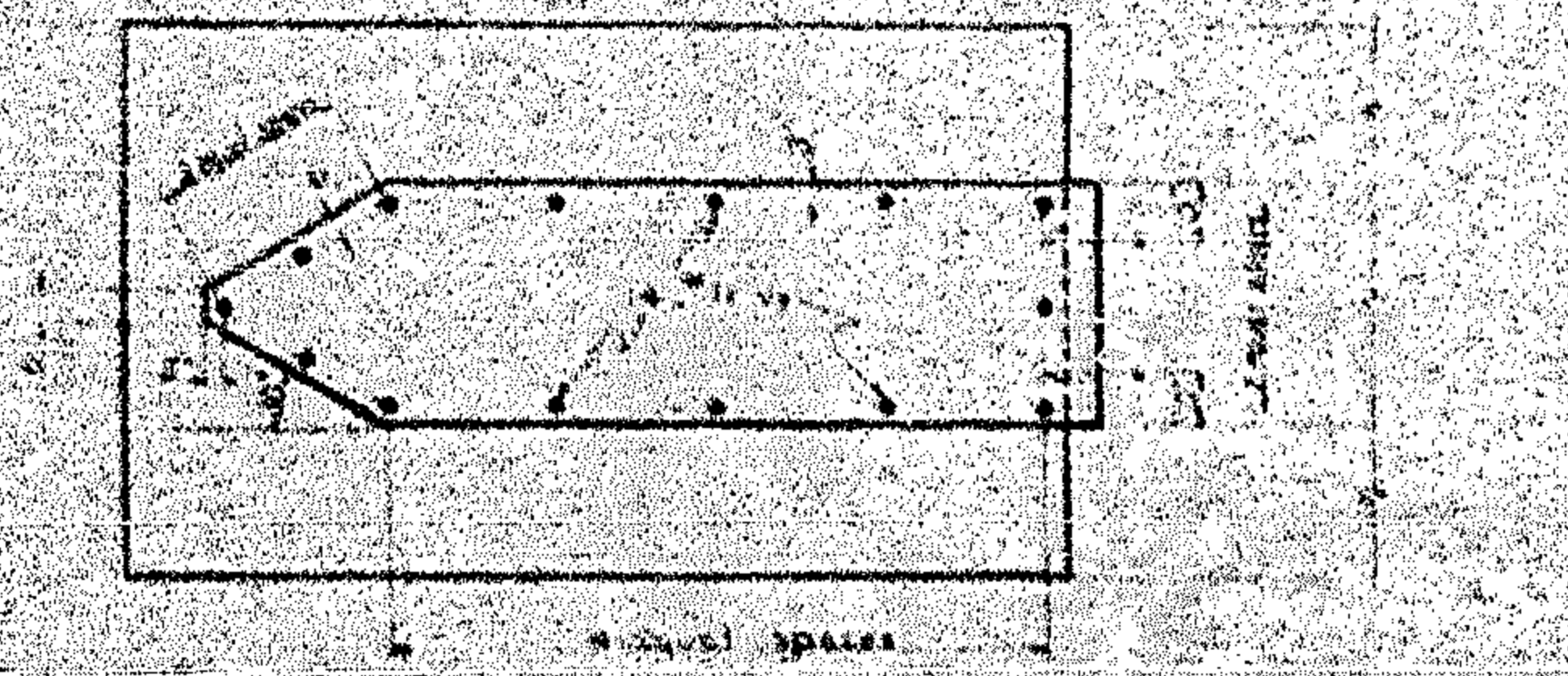
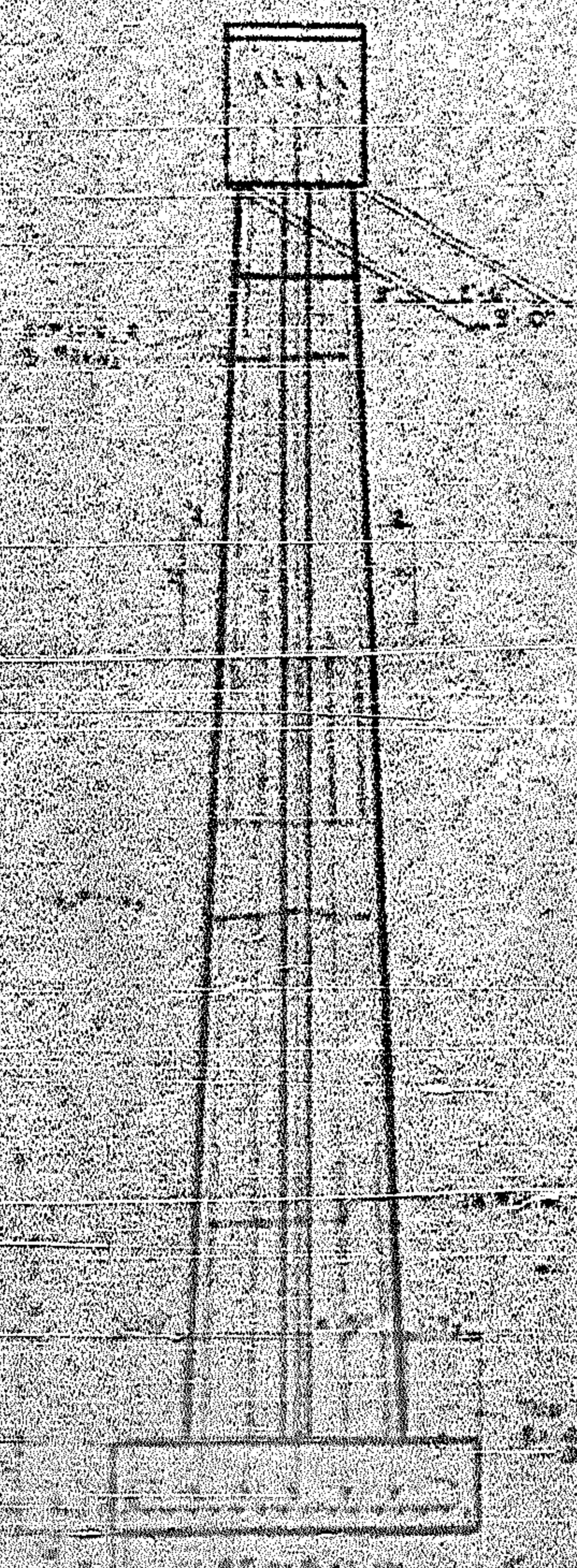
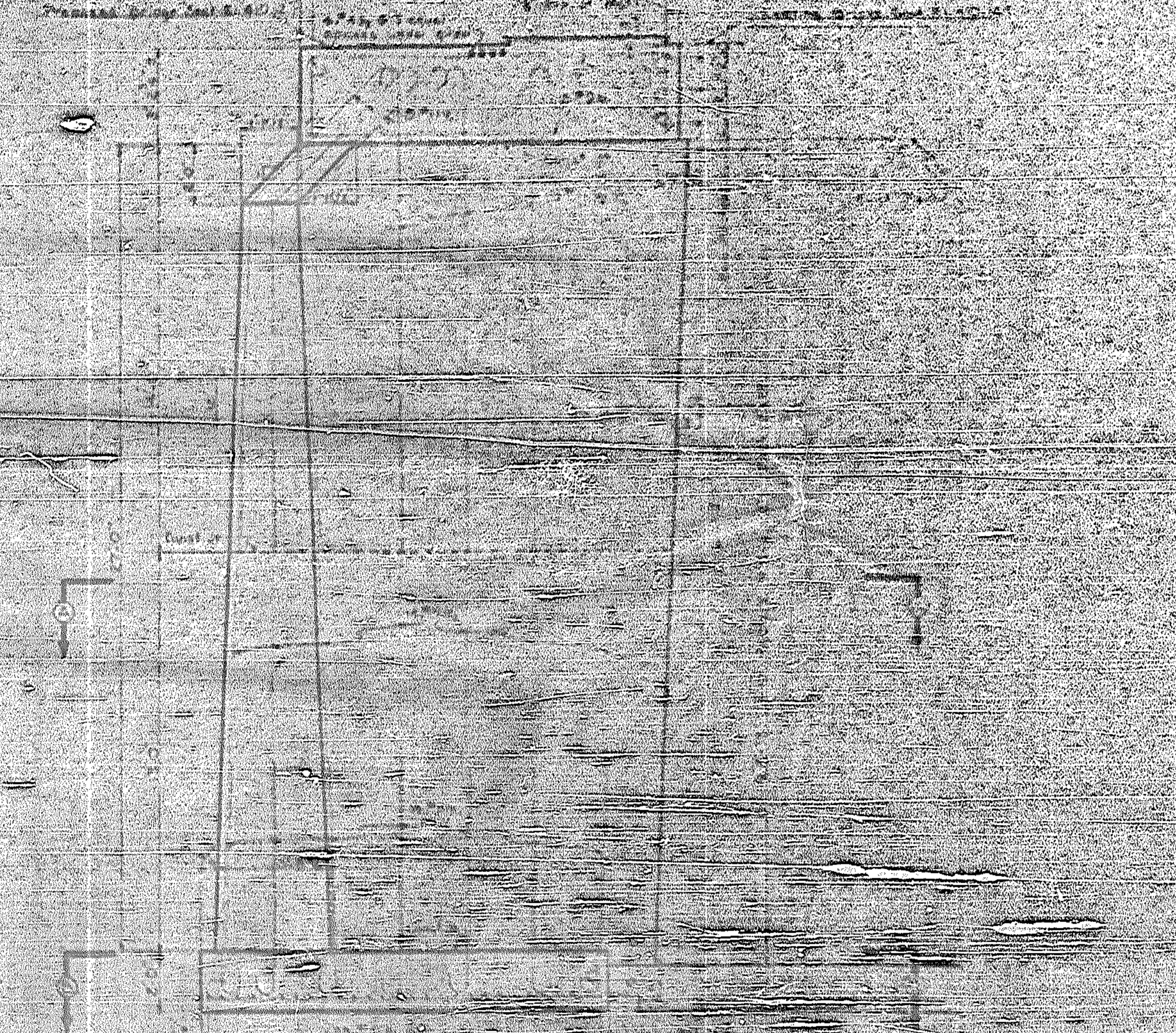
NO.	BY	DATE	CHK'D	DATE
1				
2				



BILL OF MATERIAL

PIER NO. 5

BAR NO.	NO.	SIZE	TYPE	LENGTH
b.	0	#5	1	10'-0"
d.	5	#5	4	5'-0"
m.	3	#11	2	5'-0"
z.	3	#4	3	5'-3"
z.	4	#4	3	5'-5"
v.	20	#5	1	6'-10"
z.	16	#5	1	14'-10"
v.	5	#11	5	20'-3"
v.	9	#11	4	18'-0"
v.	18	#11	5	16'-6"



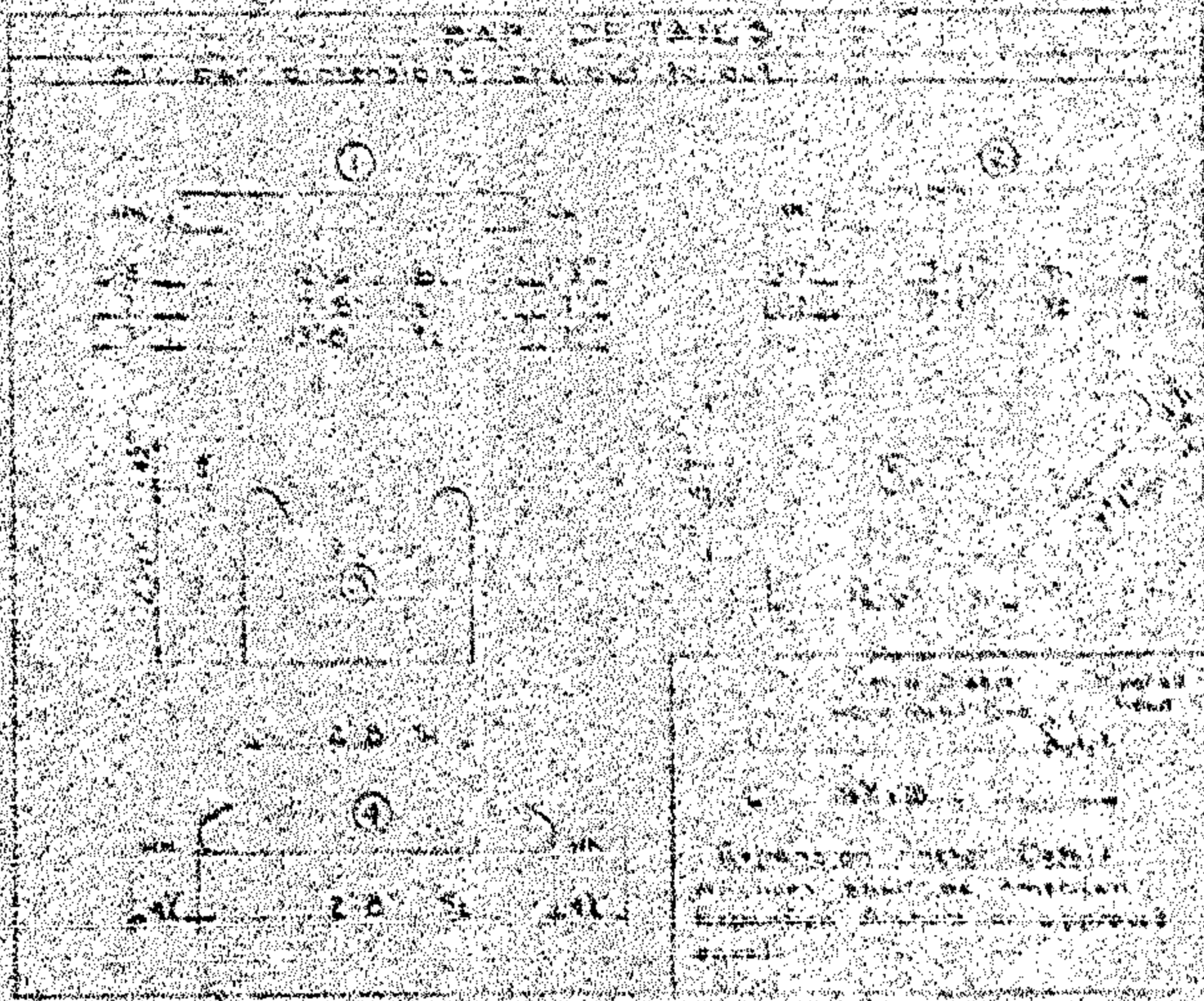
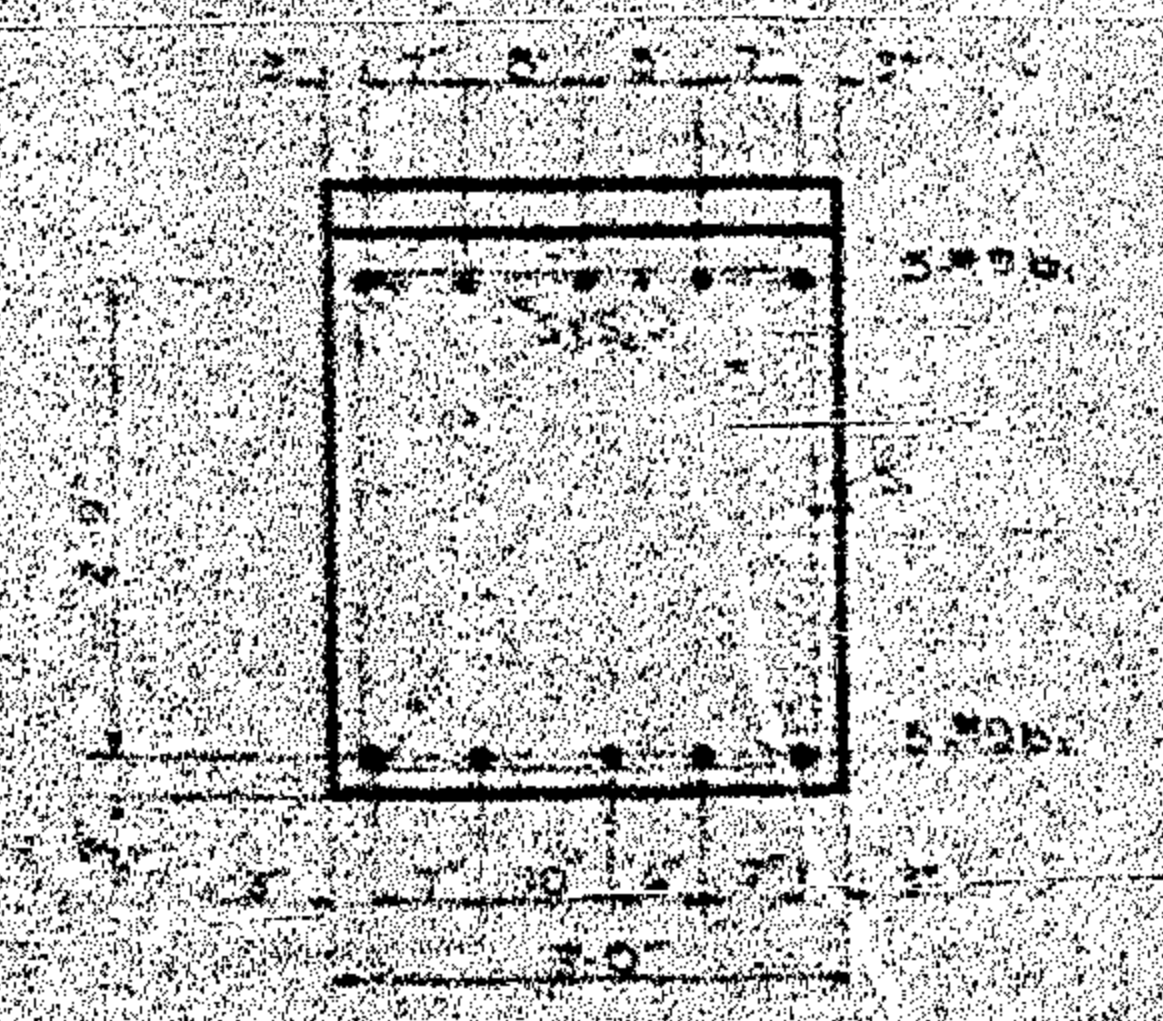
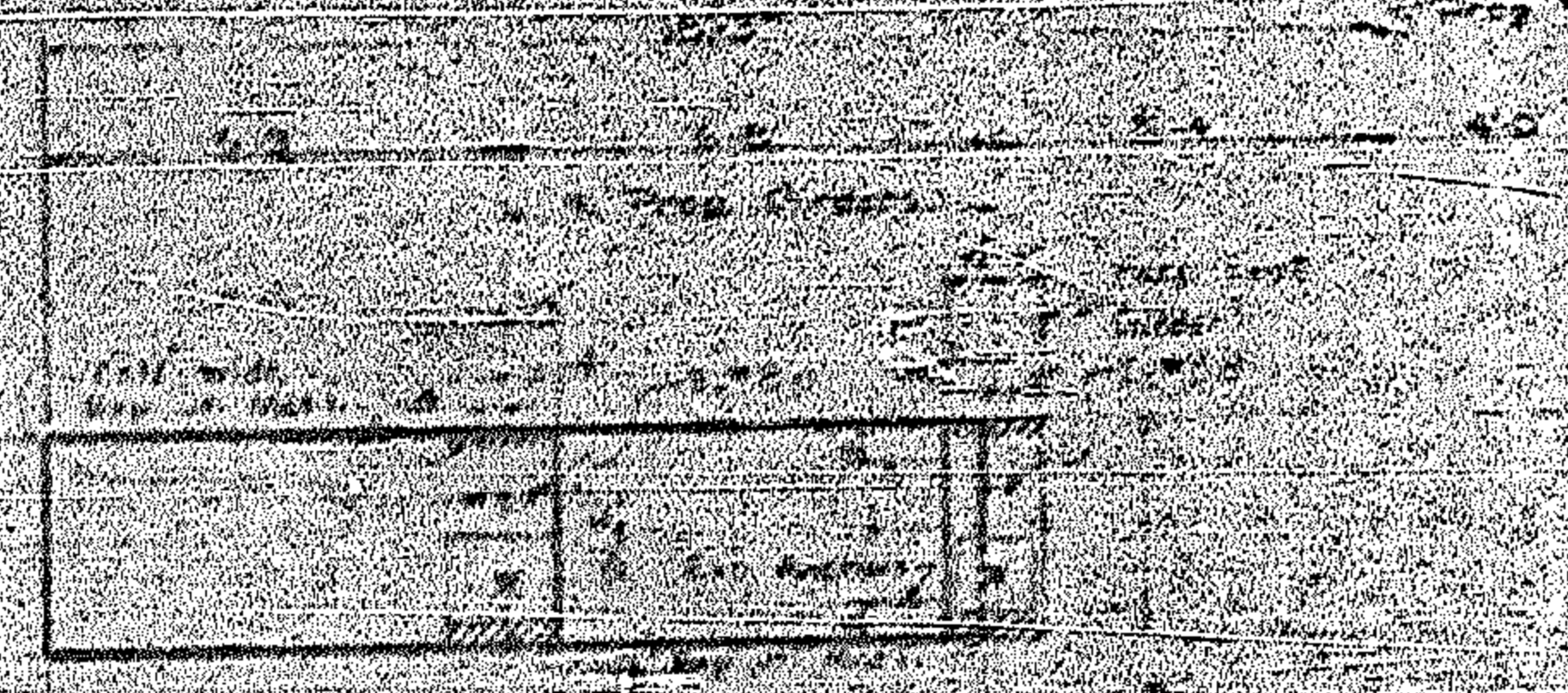
Reinforcing Steel 1/2" x 4"
 Cast A. Concrete C. 400
 3/4" x 10" Expansion Anchors 1/2"

PROJECT NO. 214043
 LEE - CHATHAM COUNTY
 STATION: 167156

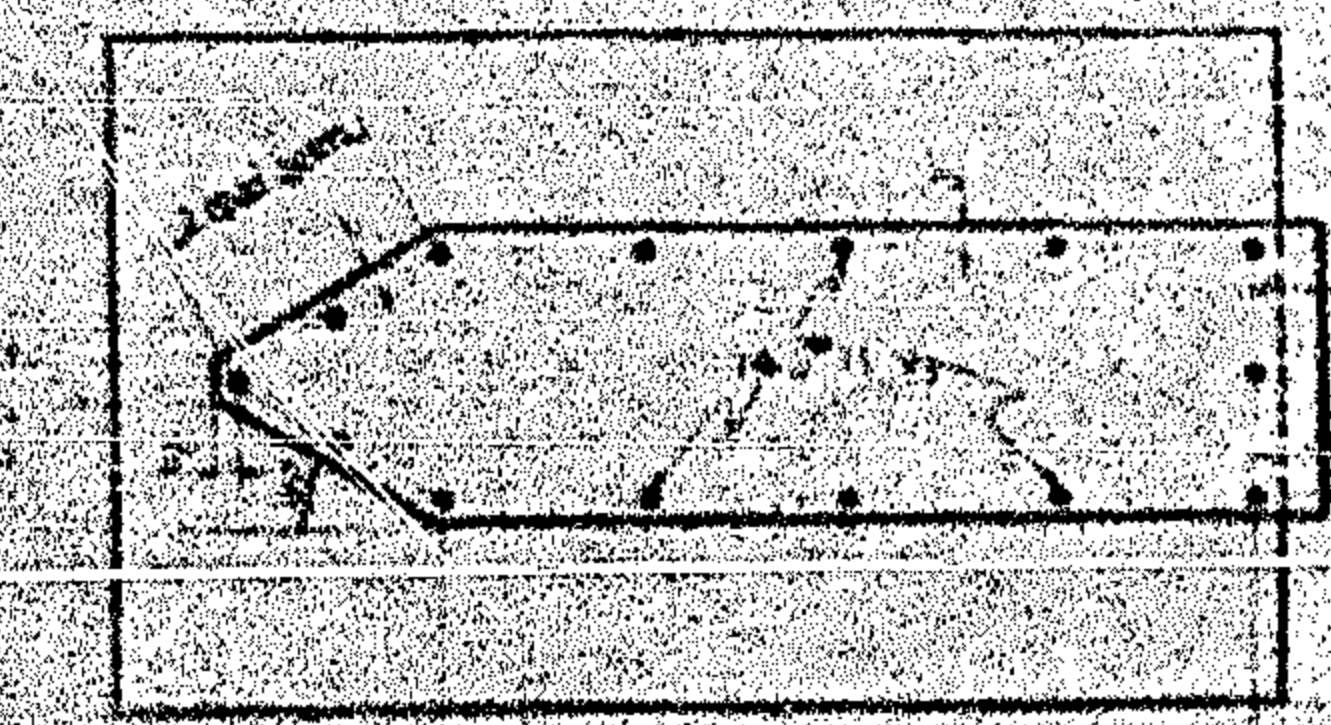
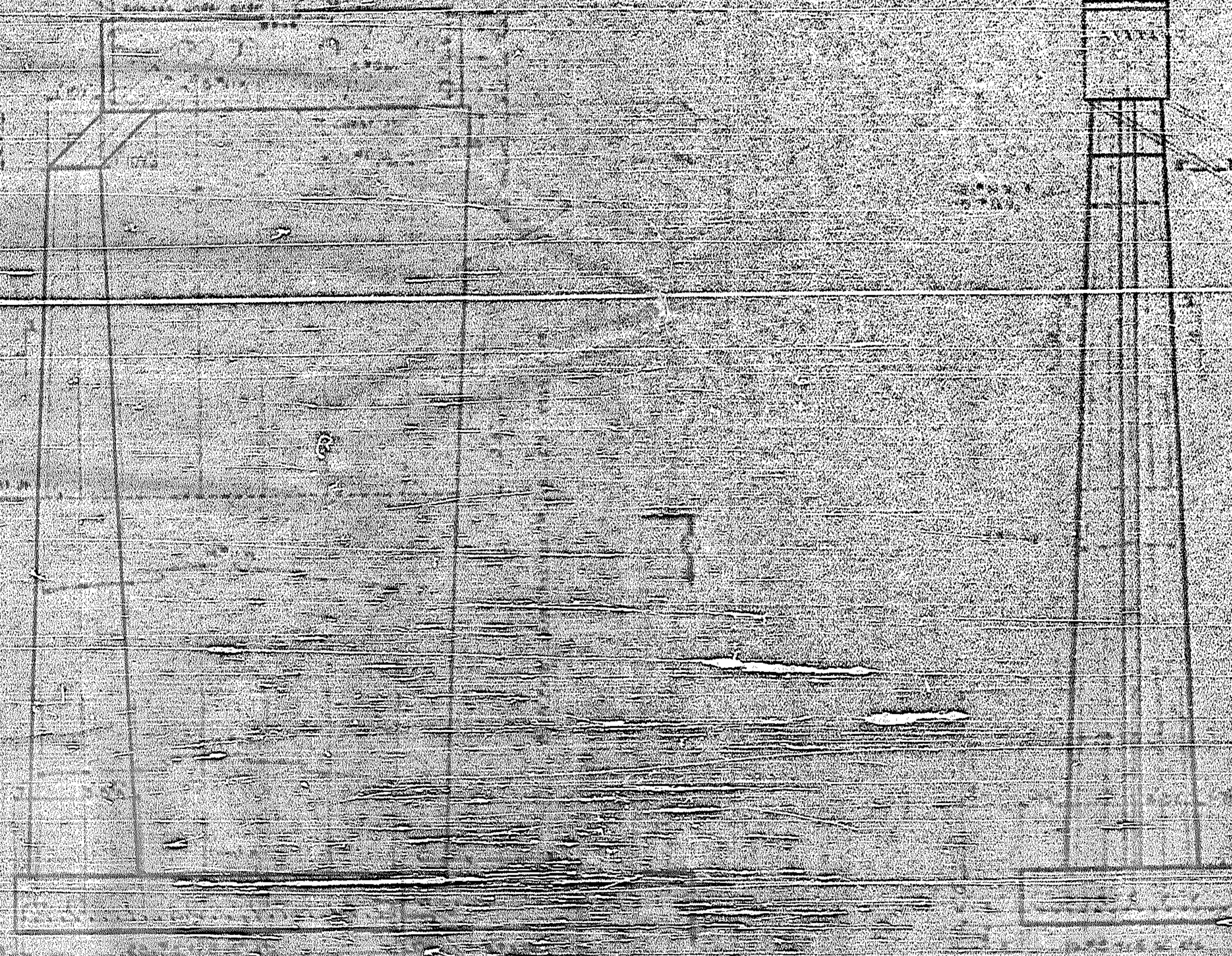
STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

PIER NO. 5

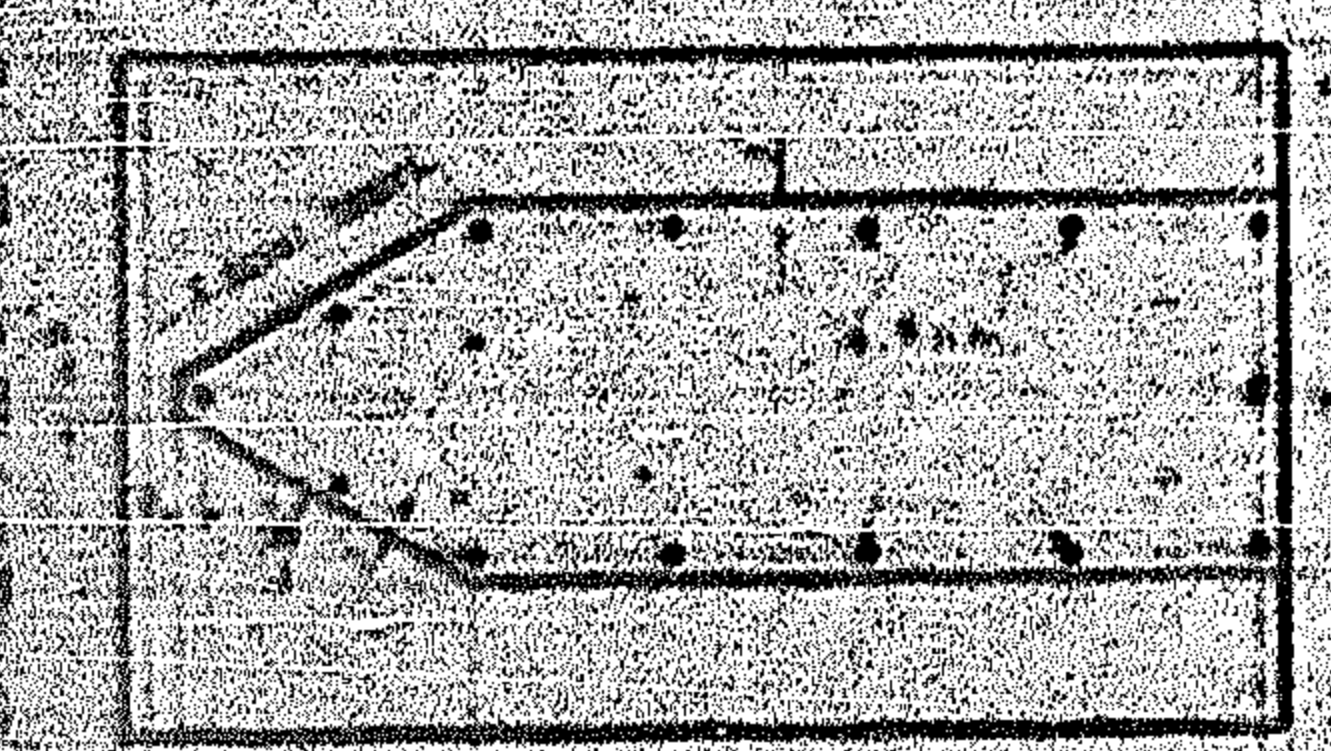
MARCH 1954



TYPICAL SECTION THRU CAP



SECTION A-A



SECTION B-B

BILL OF MATERIAL

PIER NO. 6					
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT	
1	5	#5	15.0'	510	
2	5	#5	30'	1020	
3	4	#4	20.0'	607	
4	4	#4	15.0'	450	
5	4	#4	20.0'	607	
6	4	#4	15.0'	450	
7	4	#4	20.0'	607	
8	4	#4	15.0'	450	
9	4	#4	20.0'	607	
10	4	#4	15.0'	450	
11	4	#4	20.0'	607	
12	4	#4	15.0'	450	
13	4	#4	20.0'	607	
14	4	#4	15.0'	450	
15	4	#4	20.0'	607	
16	4	#4	15.0'	450	
17	4	#4	20.0'	607	
18	4	#4	15.0'	450	
19	4	#4	20.0'	607	
20	4	#4	15.0'	450	

Reinforcing Steel 100,000
 Cast A Concrete 150,000
 14' x 15' Expansion Anchor M-40

PROJECT NO. 8,19043

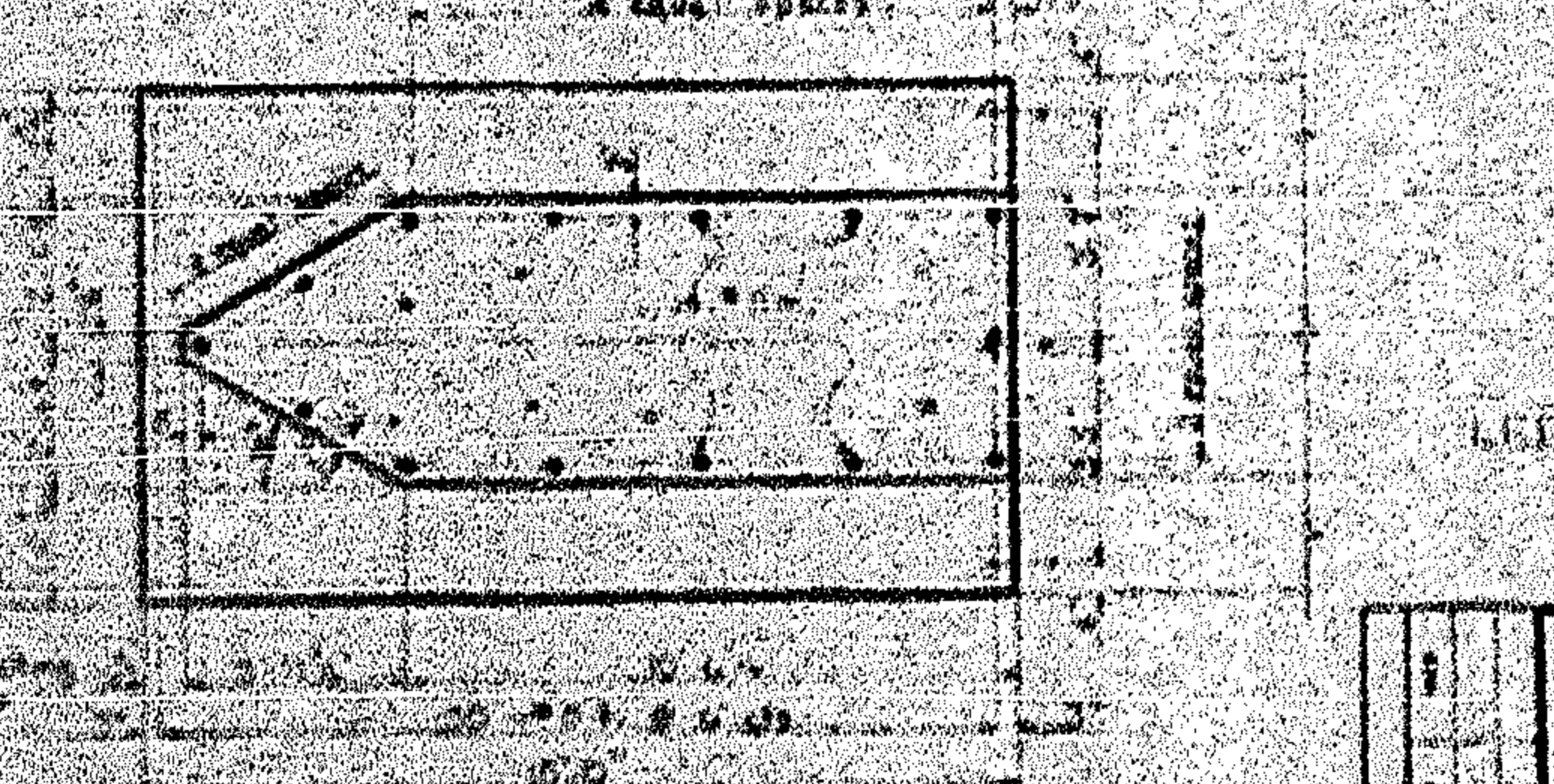
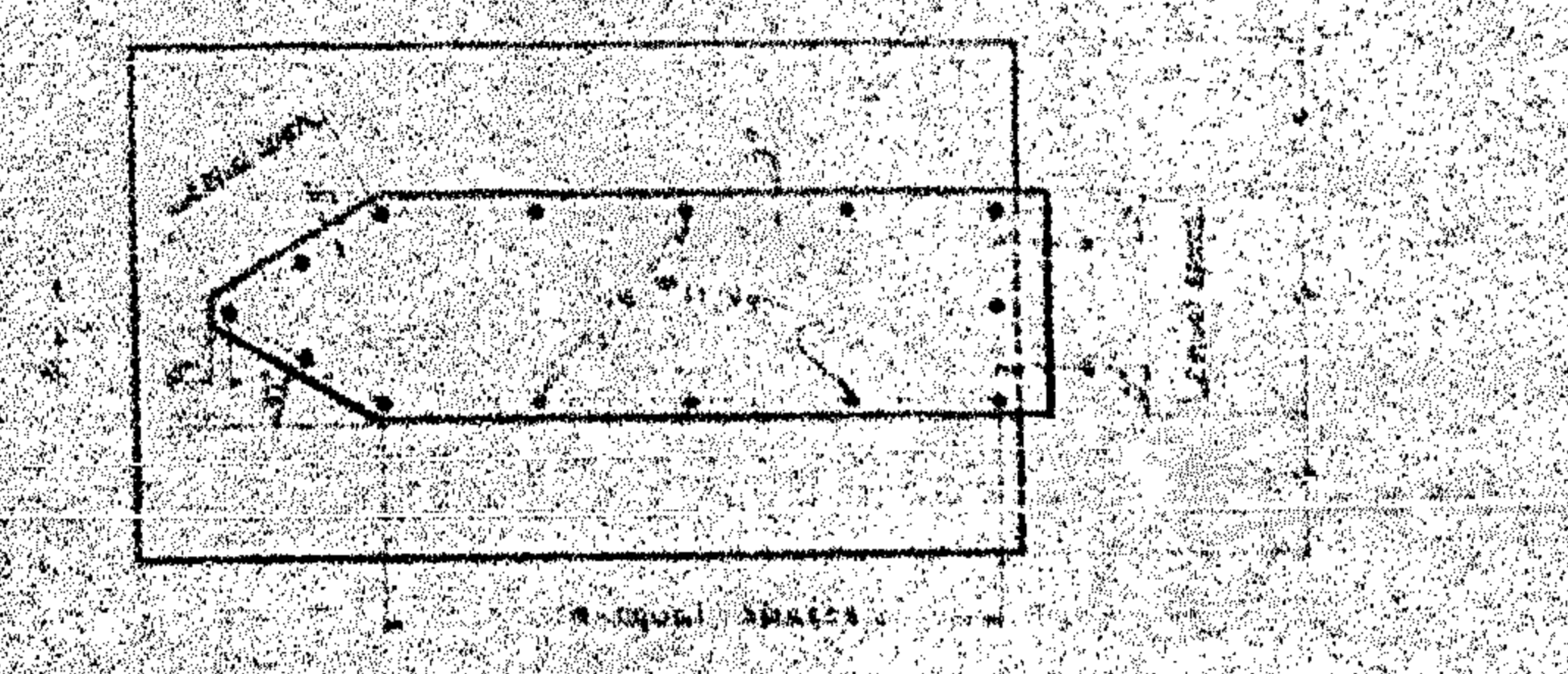
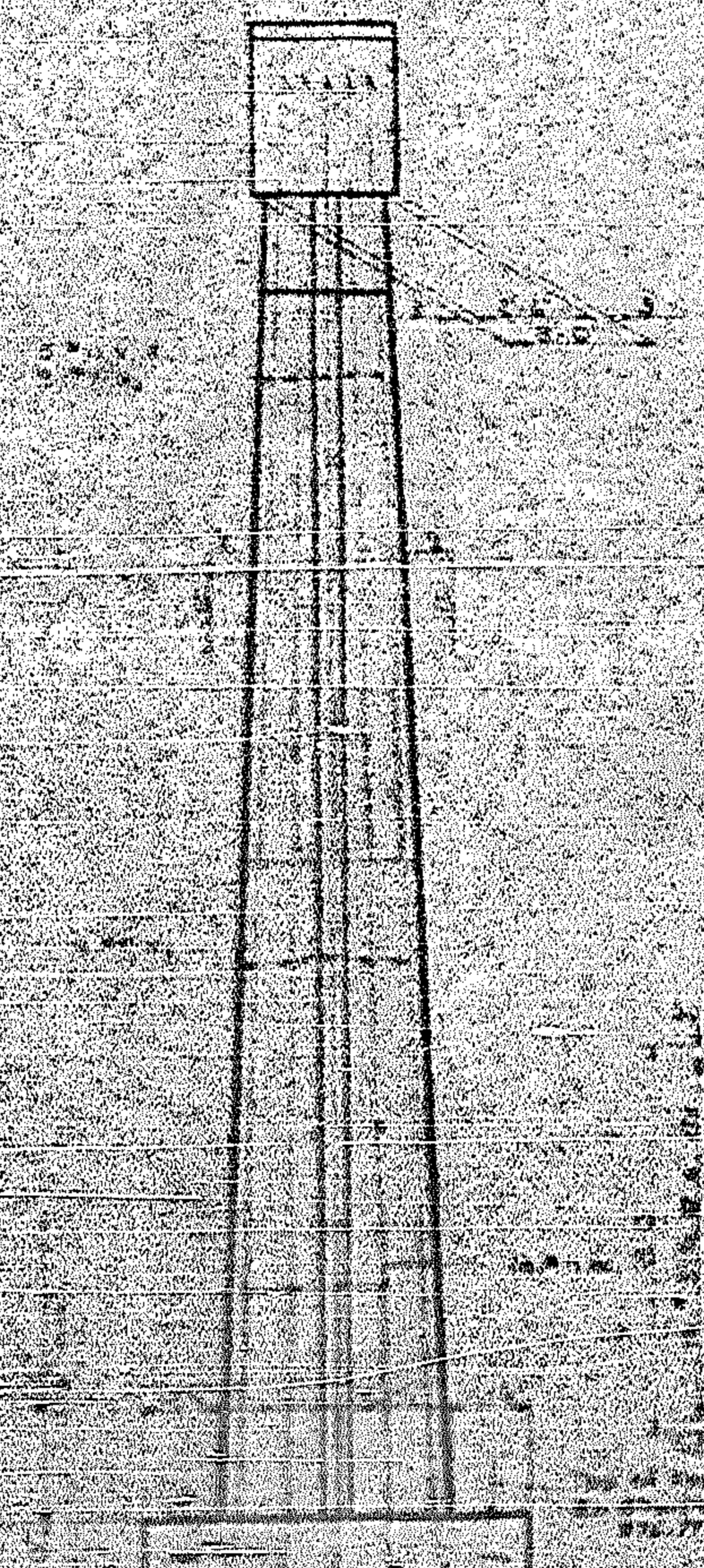
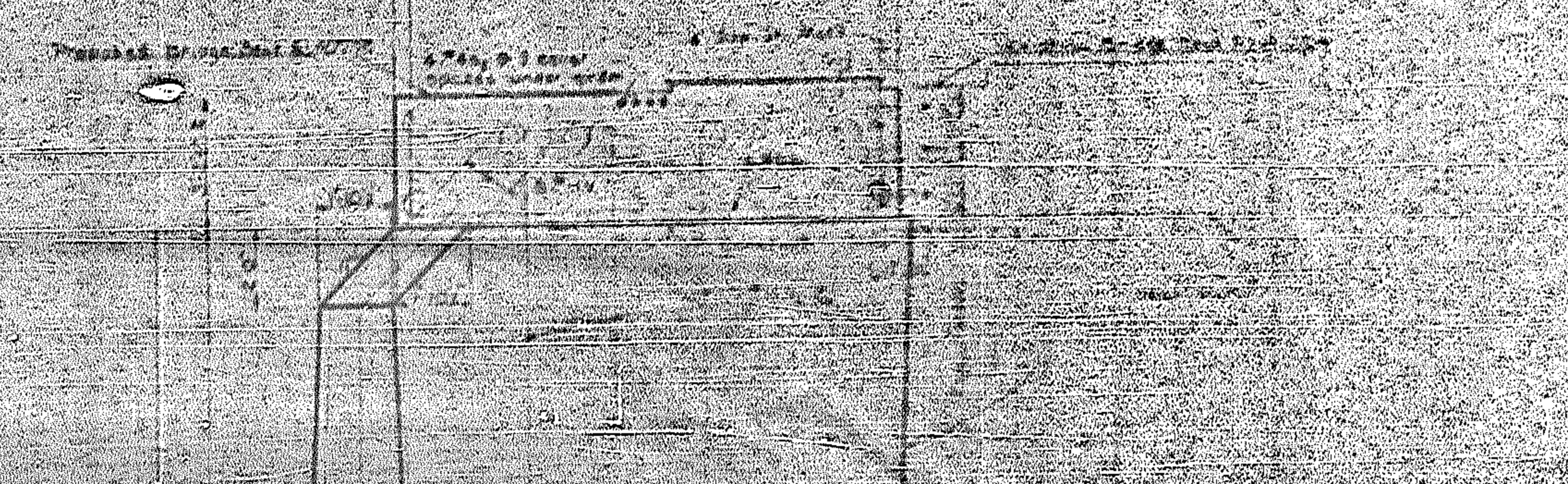
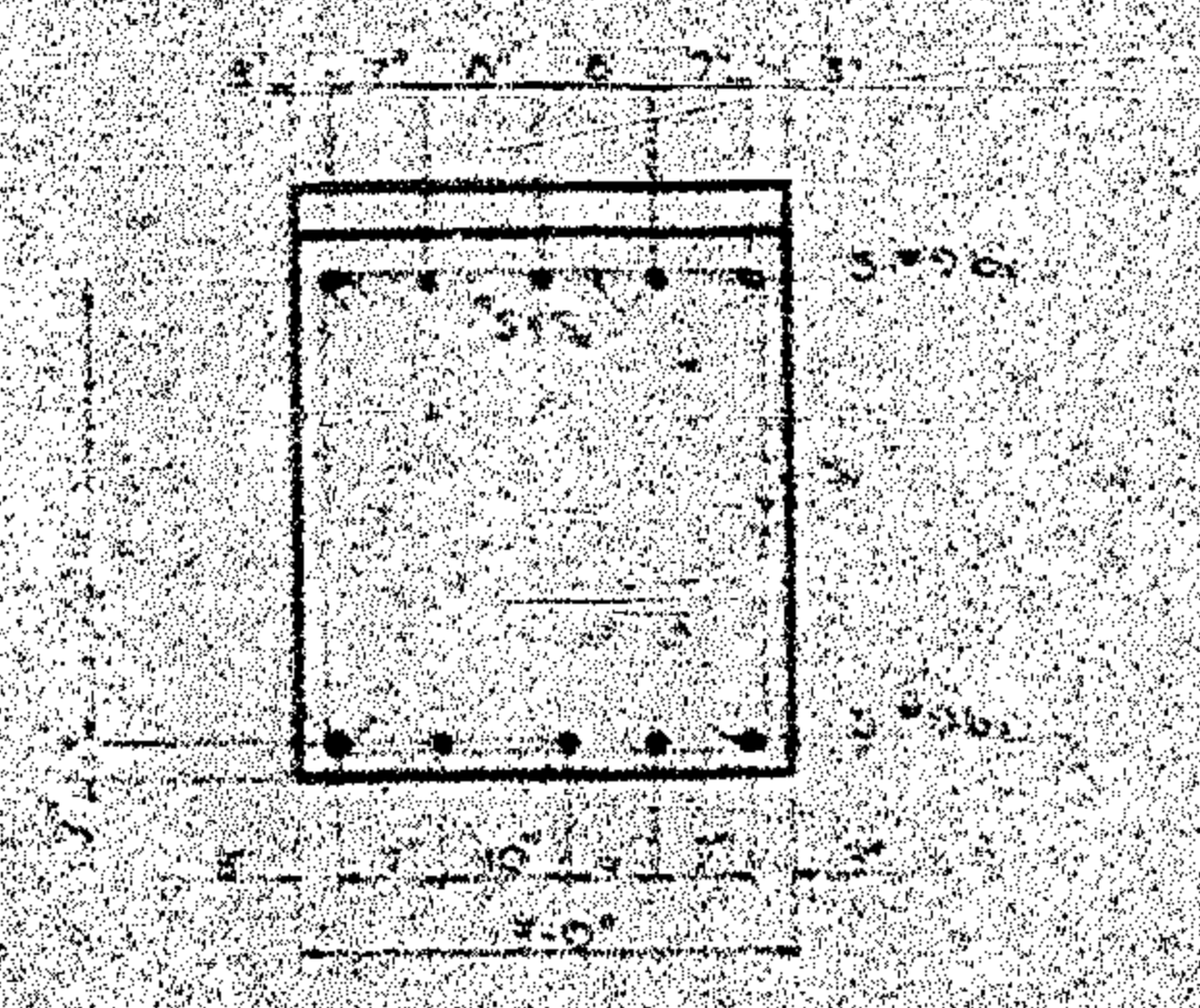
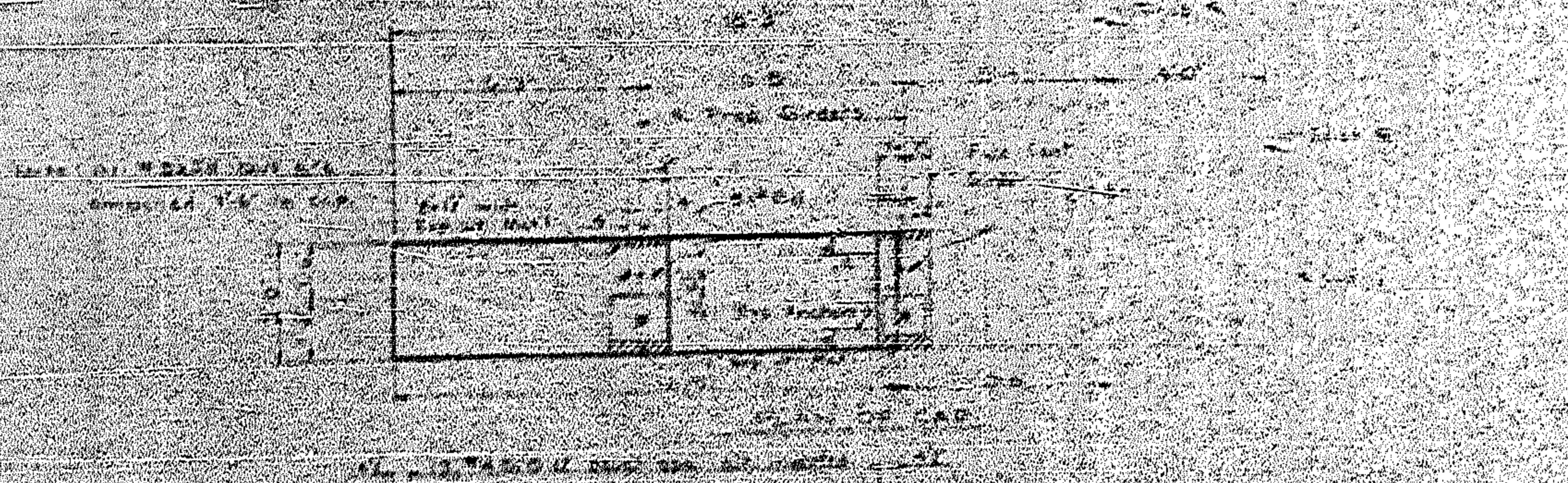
CHATHAM COUNTY

STATION: 157013

**STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION**

PIER NO. 6

MARCH 1959



BILL OF MATERIAL

PIER NO. 7

BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
b.	5	90	15.0'	510
d.	5	90	3.0'	90
m.	4	90	3.0'	307
si.	3	90	3.0'	80
sa.	4	90	3.0'	90
t.	30	95	1.0-10	210
u.	10	95	5.0	240
v.	5	90	3.0	180
w.	5	90	3.0	180
x.	4	90	3.0	130

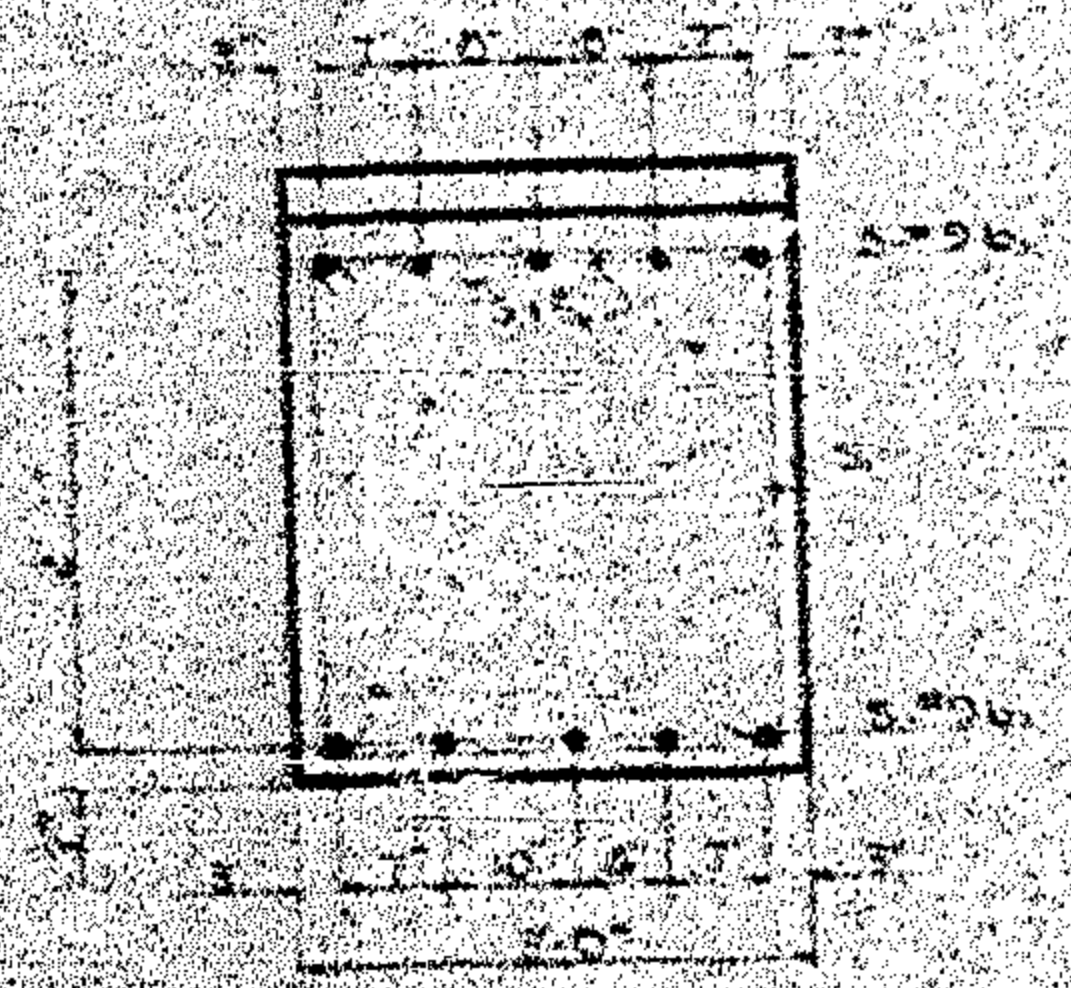
Reinforcing Steel - Tex. 4723
 Cast A Concrete - Co. 901
 P.C. 100 - Expansion Anchors 100

PROJECT NO. 0.14043
CHATHAM COUNTY
STATION 167.00

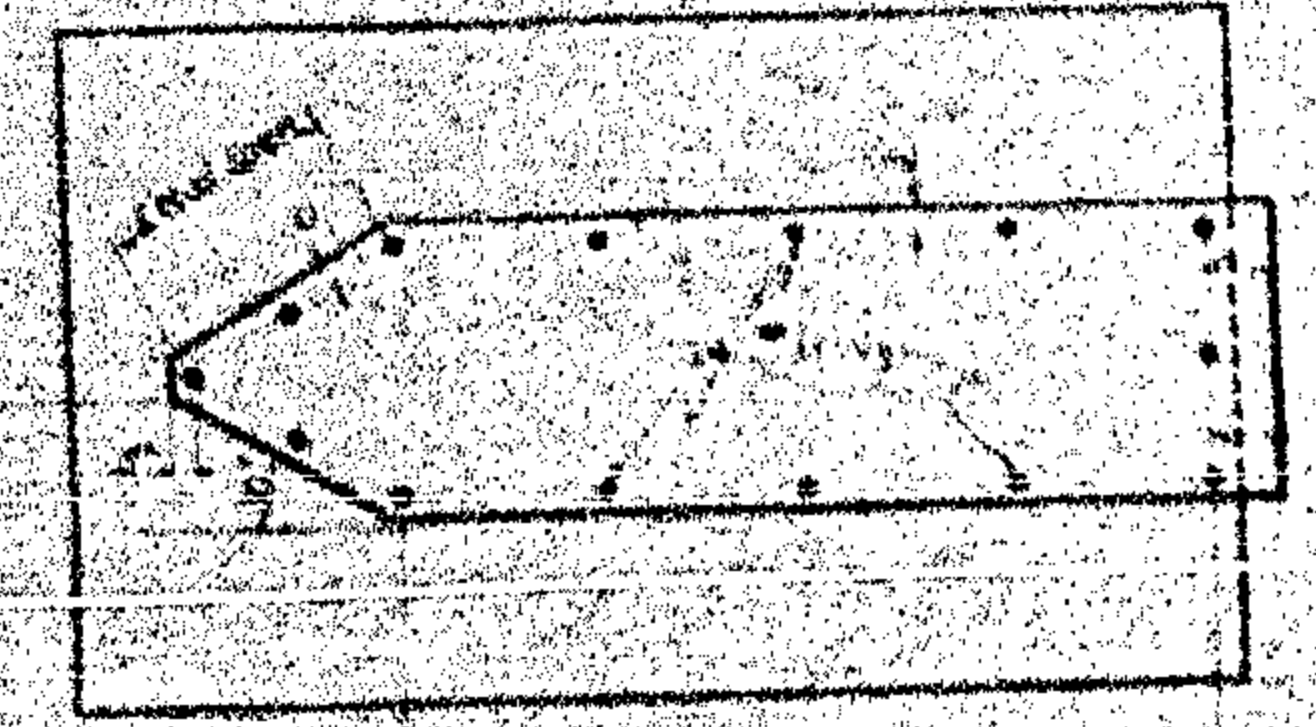
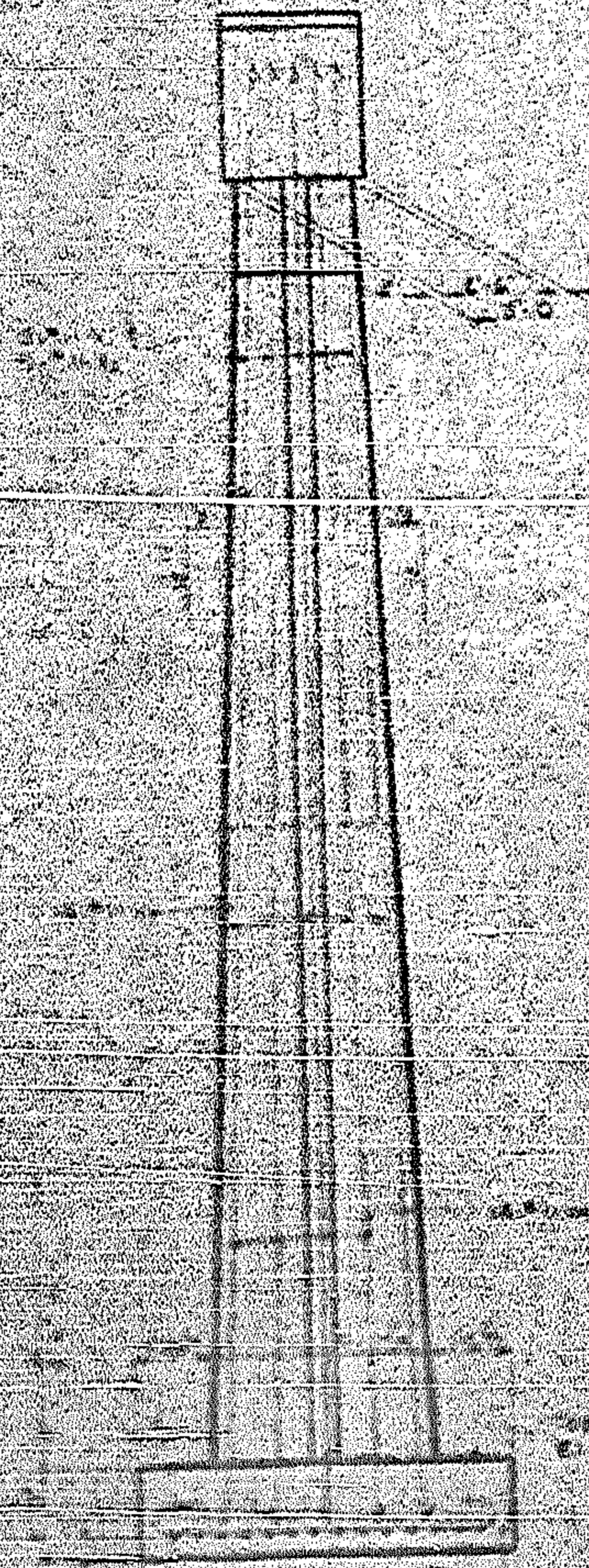
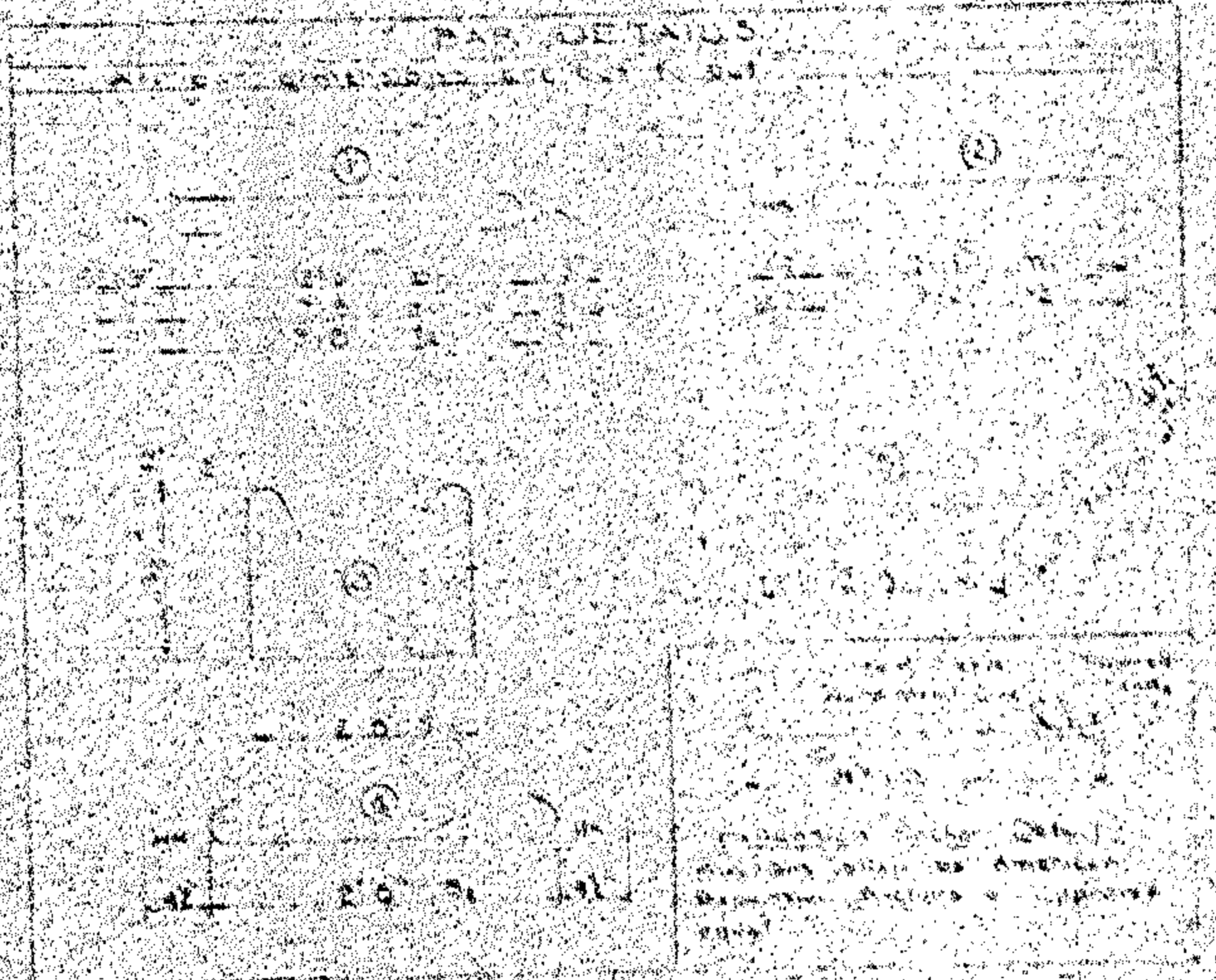
STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

PIER NO. 7

MARCH 1959



TYPICAL SECTION THRU CAP



SECTION A-A



SECTION B-B

BILL OF MATERIAL					
PIER NO. 8					
BAR NO.	NO.	SIZE	TYPE	LENGTH	WEIGHT
b.	0	3	1	15'0"	50
h.	5	3	24	3'0"	40
m.	4	3	2	3'6"	797
s.	1	3	3	3'0"	50
t.	4	3	4	1'3"	9
r.	28	3	1	8'10"	258
u.	16	3	1	14'10"	248
v.	5	3	3	2'3"	50
w.	3	3	2	18'3"	597
x.	14	3	24	17'6"	302

Use reinforcing steel...
 Class A Concrete...
 A.S.P. Rebar per AASHTO #47

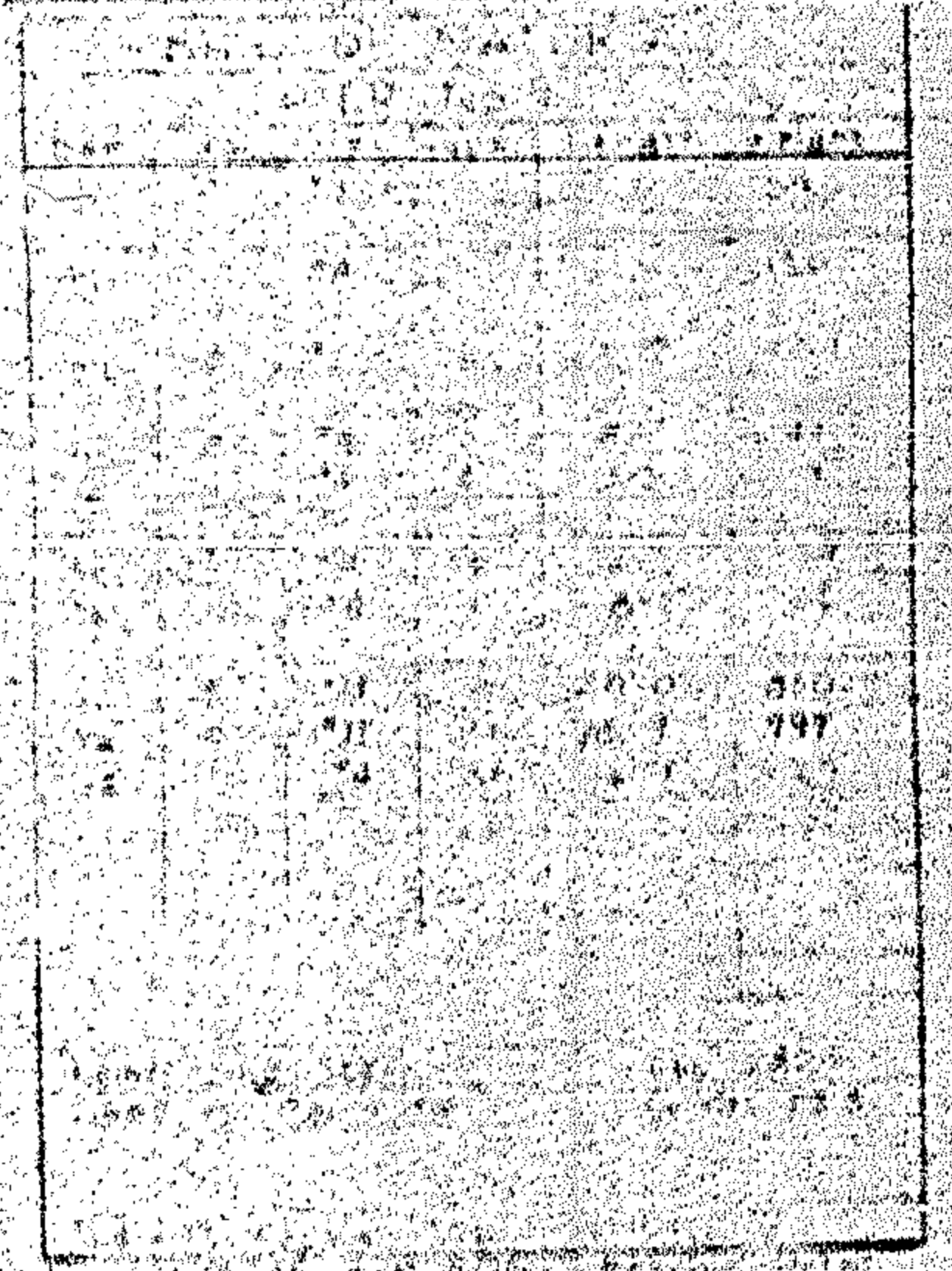
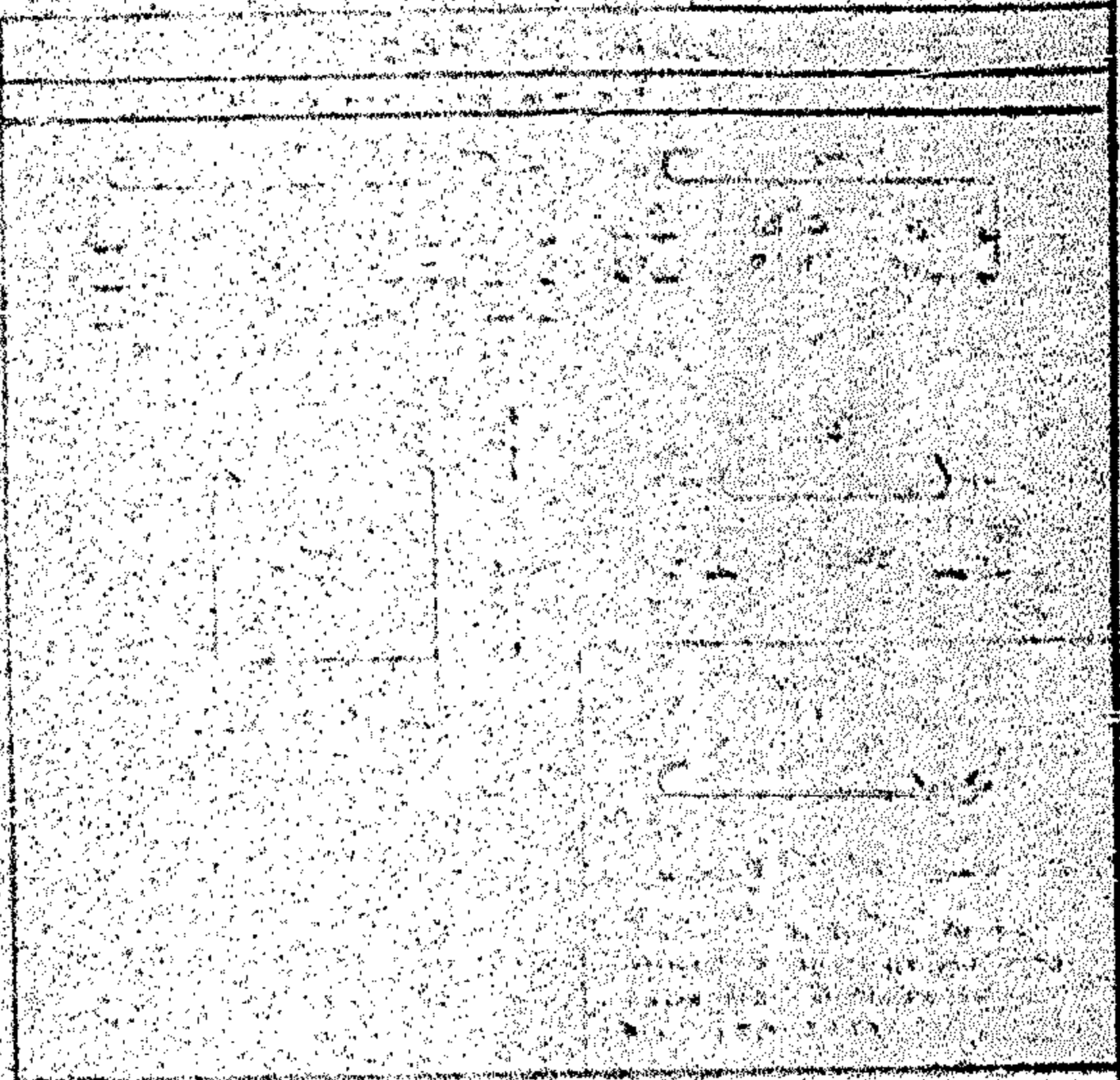
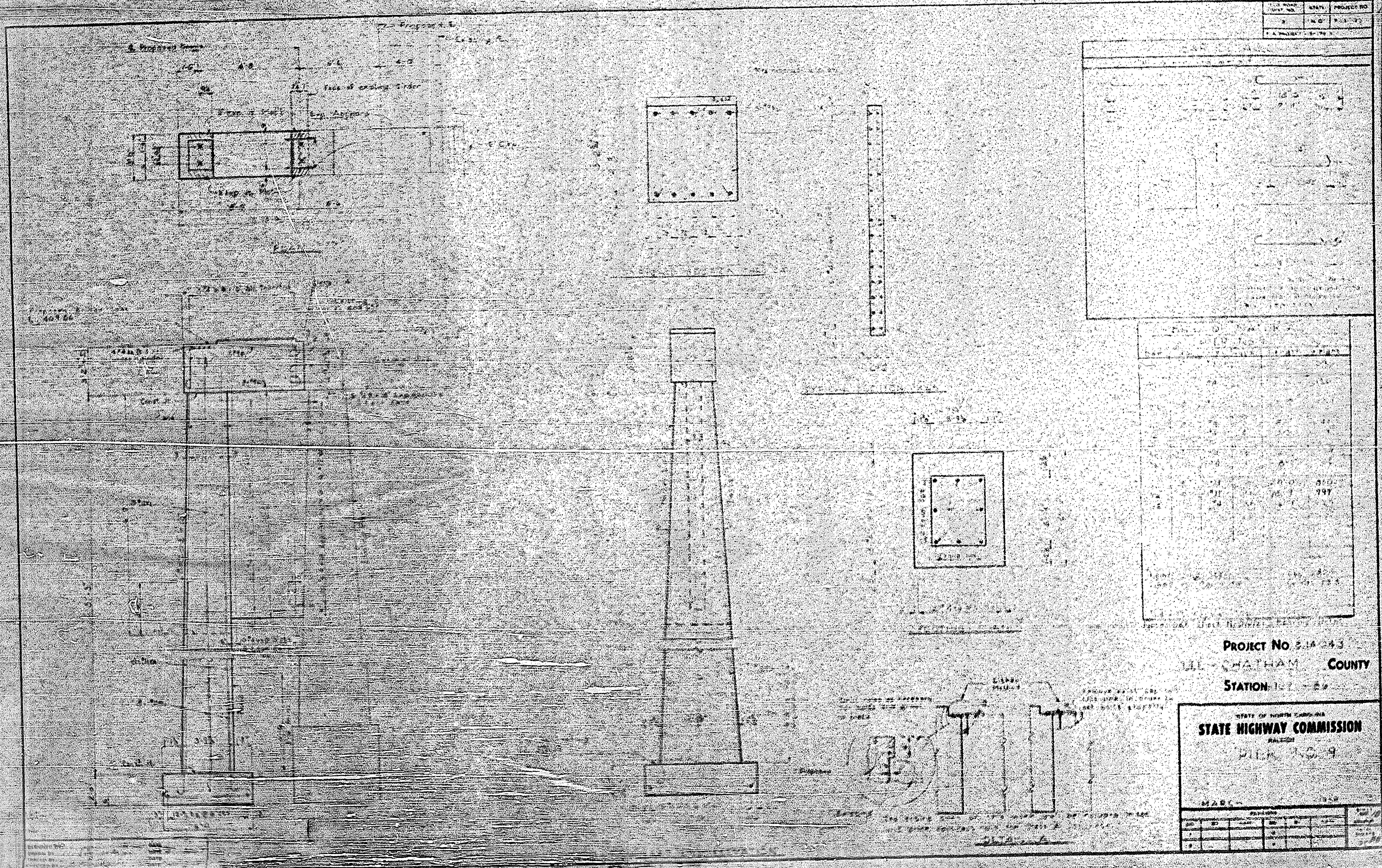
PROJECT NO. 614043
 CHATHAM COUNTY
 STATION: 16+86

STATE OF NORTH CAROLINA
 STATE HIGHWAY COMMISSION

PIER NO. 8

MARCH 1959

ROAD DISTRICT	STATE	PROJECT NO.
1	NC	797



PROJECT NO. 2-1A-243
 WILKINSON COUNTY
 STATION 1+2-50

STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
 PROJECT

DATE	BY	CHECKED	APPROVED