

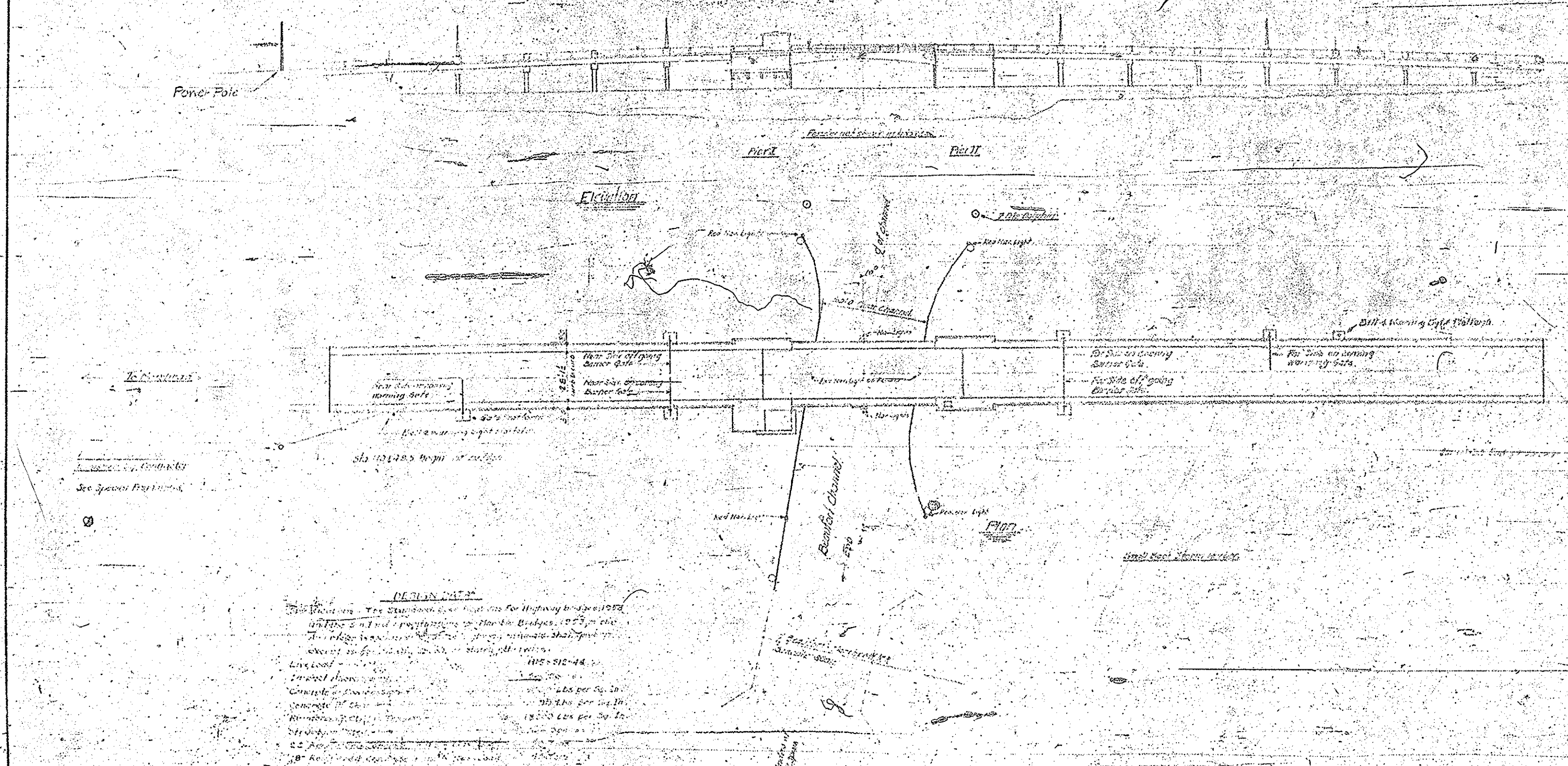
K O D A K S A F E T A V L F L M +

Dist. No. 29
S. C. NC. R.A.P. 29-687

INDEX OF DRAWINGS
Drawing - 1- Title No. 2
Drawings 3-10 Structure
Drawings 11-13 Piling Plans

STATE OF NORTH CAROLINA
STATE HIGHWAY AND PUBLIC WORKS COMMISSION
CARTERET COUNTY
BRIDGE OVER BEAUFORT CHANNEL ON U.S. 70
BETWEEN MOREHEAD CITY AND BEAUFORT

Shipping Point - BEAUFORT, N.C.



See Special Provisions

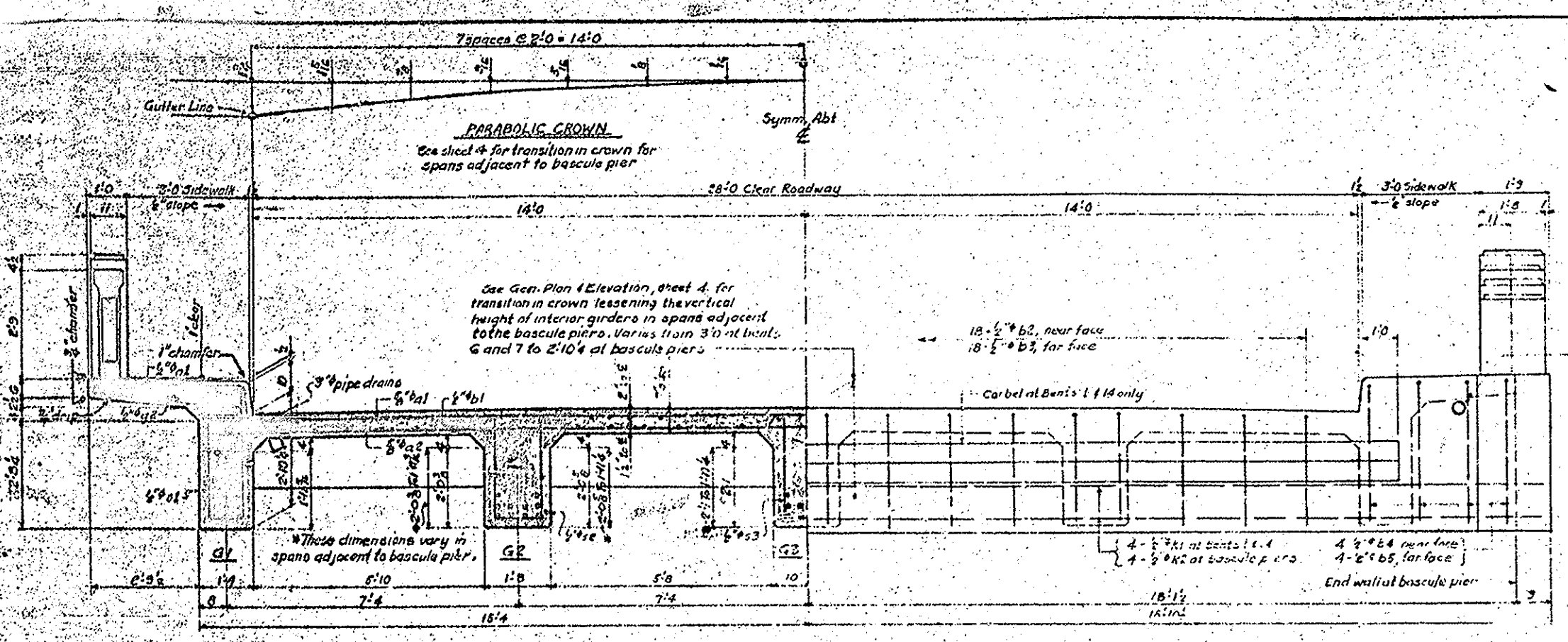
NOTE: The Stationing for Highway Bridge No. 29 is as shown on the plan and is in accordance with the Stationing for U.S. 70. The Stationing for the Bridge is as shown on the plan and is in accordance with the Stationing for U.S. 70. The Stationing for the Bridge is as shown on the plan and is in accordance with the Stationing for U.S. 70. The Stationing for the Bridge is as shown on the plan and is in accordance with the Stationing for U.S. 70.

Department of Transportation
Division of Public Works

GENERAL CONTRACTOR'S CHECK
FOR BEAUFORT CHANNEL U.S. 70
BETWEEN MOREHEAD CITY AND
STATE OF NORTH CAROLINA
STATE HIGHWAY AND PUBLIC WORKS COMMISSION
PROJECT NO. 29
L. O. HOPKINS
GENERAL ENGINEER
R.A.P. 29-687

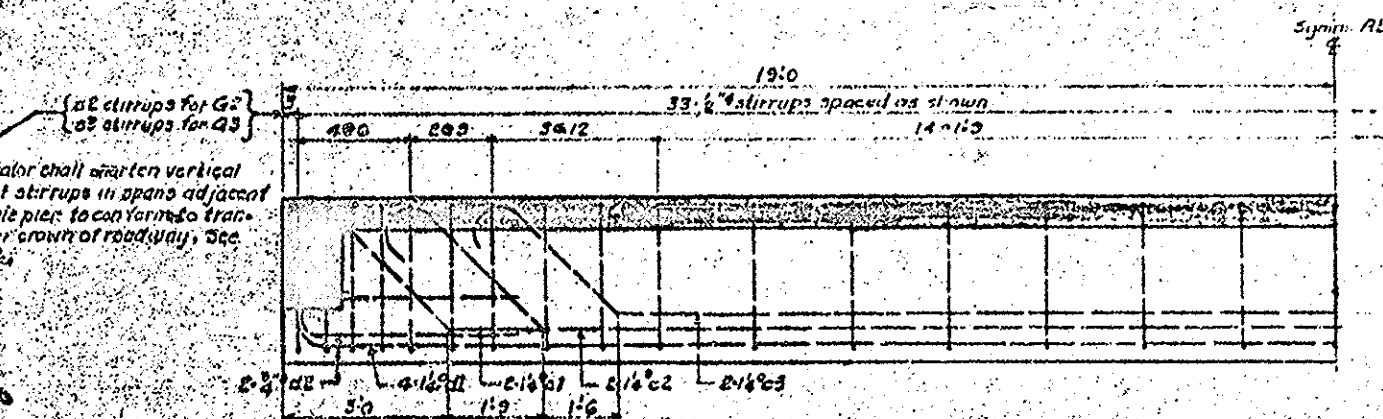
APPROVED BY: [Signature]
DATE: 7/1/68

BEAUFORT CHANNEL
Carteret # 29

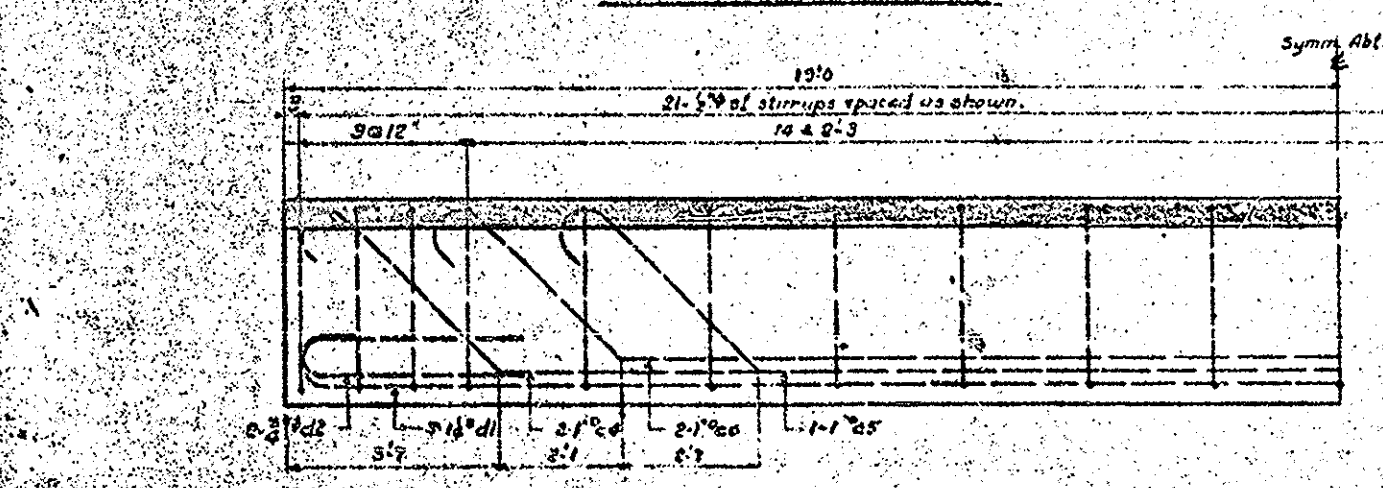
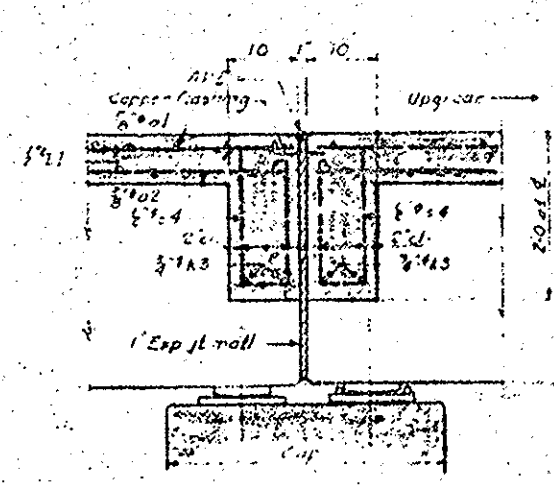
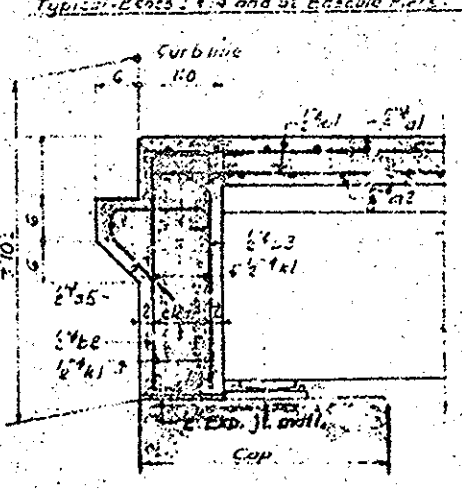


HALF INTERIOR SECTION

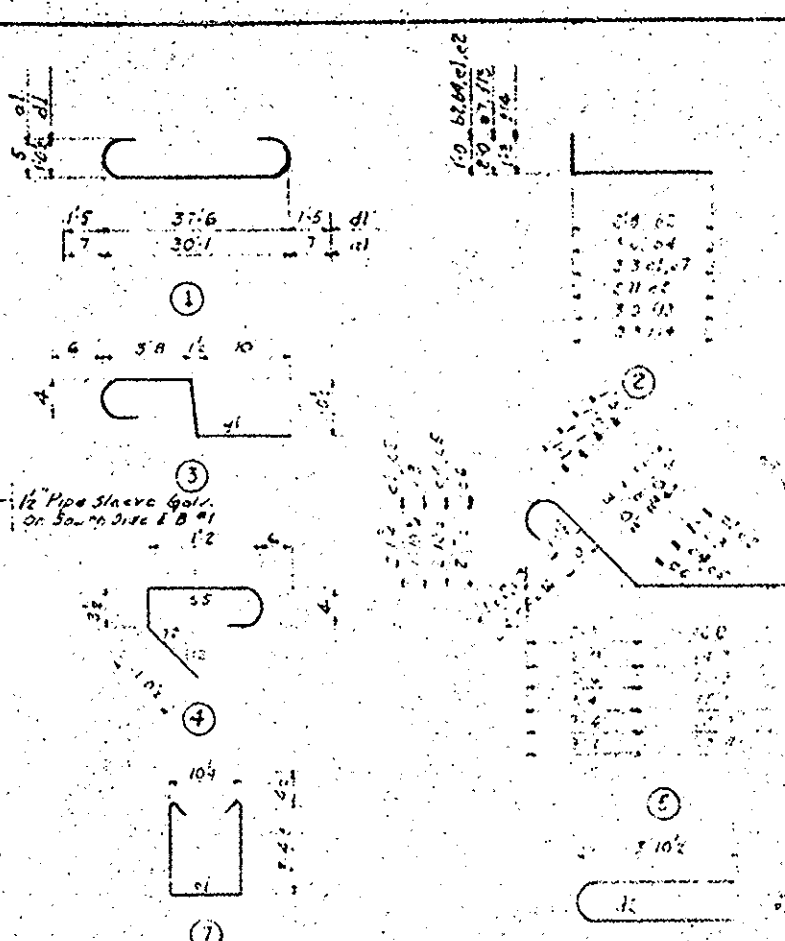
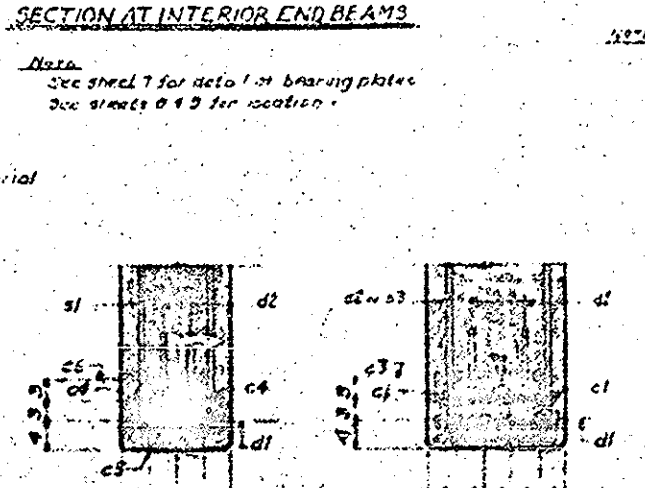
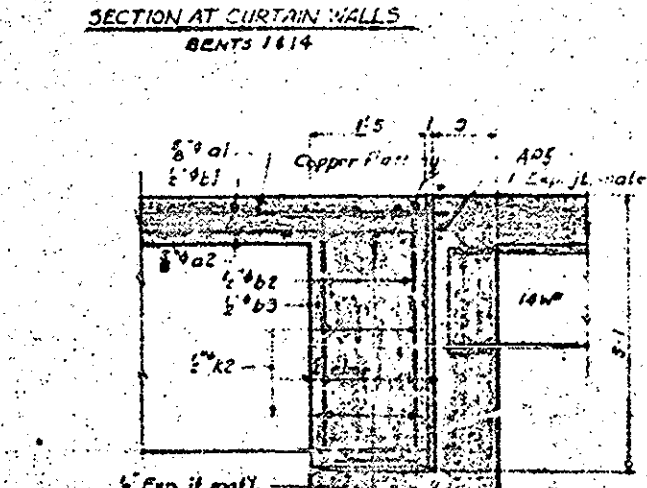
HALF END ELEVATION



ELEVATION - INTERIOR GIRDS



ELEVATION - EXTERIOR GIRDS



SHEET 9 OF 92
(See Book # 2 - Page 117)
BRIDGE OVER CHANNEL ON HIGHWAY
BETWEEN FIDELITY CITY AND
STATE HIGHWAY AND PUBLIC WORKS COMMISSION

BILL OF MATERIAL FOR 16 APPROXIMATE SPANS

BAR NO.	NO.	SIZE	TYPE	LENGTH	WEIGHT
a1	910	5/8"	1	31.3	23.000
a2	876	5/8"	2	80.1	69.010
b1	812	5/8"	3	37.6	20.261
b2	72	5/8"	4	78	177
b3	72	5/8"	5	58	160
b4	37	5/8"	6	26	90
b5	37	5/8"	7	86	75
c1	84	5/8"	8	41.4	19.945
c2	84	5/8"	9	37.9	18.000
c3	84	5/8"	5	34.15	15.230
c4	26	5/8"	5	41.55	17.026
c5	26	5/8"	5	37.15	16.216
c6	26	5/8"	5	26.7	6.253
d1	112	5/8"	1	40.8	37.207
d2	283	5/8"	2	80	6.867
e1	208	5/8"	3	4.5	6.01
e2	208	5/8"	4	5.0	4.707
e3	8	5/8"	5	6.0	3.0
e4	8	5/8"	6	6.0	3.0
e5	8	5/8"	7	6.0	3.0
e6	8	5/8"	8	6.0	3.0
e7	8	5/8"	9	6.0	3.0
f1	170	5/8"	10	3.5	6.05
f2	112	5/8"	11	10.0	4.21
f3	204	5/8"	12	19	1.07
f4	48	5/8"	13	178	6.73
f5	48	5/8"	14	83	1.72
f6	14	5/8"	15	16.8	1.06
f7	12	5/8"	16	1.2	0.8
f8	8	5/8"	17	3.5	0.7
f9	10	5/8"	18	3.5	0.8
f10	10	5/8"	19	6.0	0.7
f11	10	5/8"	20	6.0	0.7
f12	10	5/8"	21	6.0	0.7
f13	10	5/8"	22	6.0	0.7
f14	10	5/8"	23	6.0	0.7
g1	110	5/8"	24	6.0	4.40
g2	232	5/8"	25	3.5	1.553
h1	8	5/8"	26	8.5	0.2
h2	8	5/8"	27	36.0	1.02
h3	208	5/8"	28	6.05	2.25
h4	278	5/8"	29	1.0	0.552
h5	142	5/8"	30	7.23	0.712
h6	284	5/8"	31	4.92	1.022
h7	18	5/8"	32	2.0	0.5

TOTAL WEIGHT OF MATERIAL AS SHOWN
11,079 lbs. (including 10% wastage)
APPROXIMATE QUANTITIES OF MATERIAL
REQUIRED FOR THE BRIDGE (including 10% wastage)
NOTE: All quantities are approximate.

ROADWAY SECTION 4 DETAILS

APPROACH SPANS
BRIDGE OVER CHANNEL ON HIGHWAY
BETWEEN FIDELITY CITY AND
STATE HIGHWAY AND PUBLIC WORKS COMMISSION

STATE OF NORTH CAROLINA
STATE HIGHWAY AND PUBLIC WORKS COMMISSION

PROJECT 2005

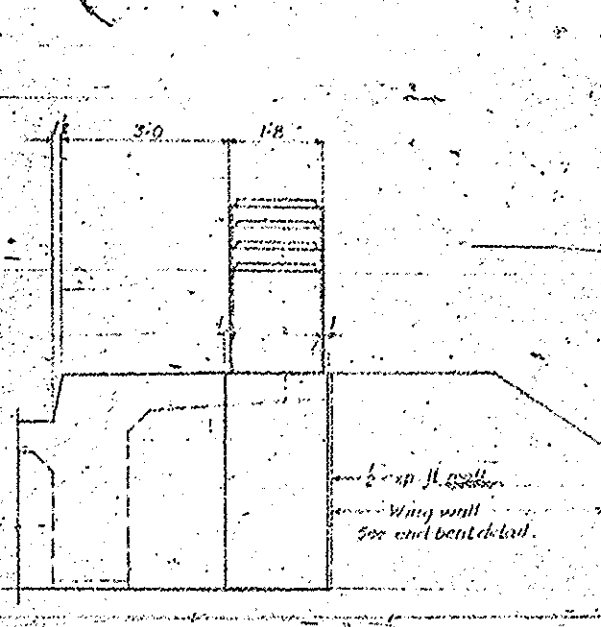
CARTER COUNTY

L. O. HOPKINS
CONSULTING ENGINEER

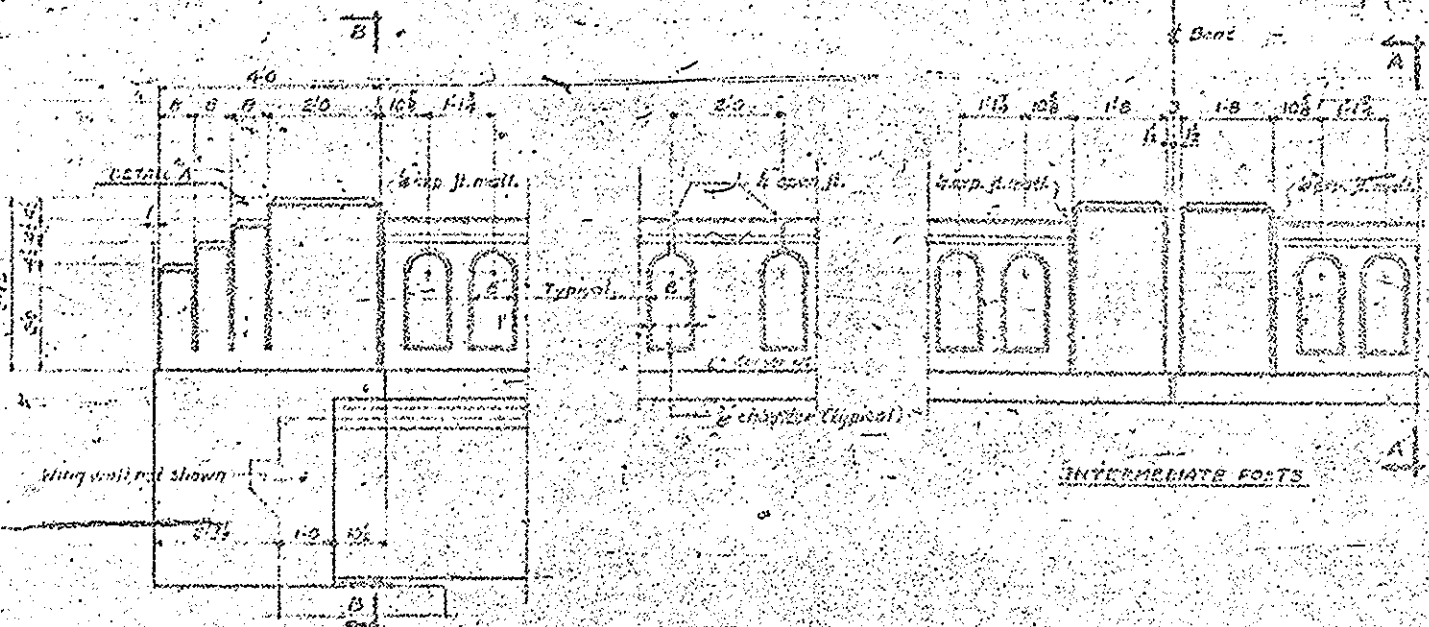
DATE: 10-21-05

Revised to add K5 bars to bill of materials of Sept. 16, 2005

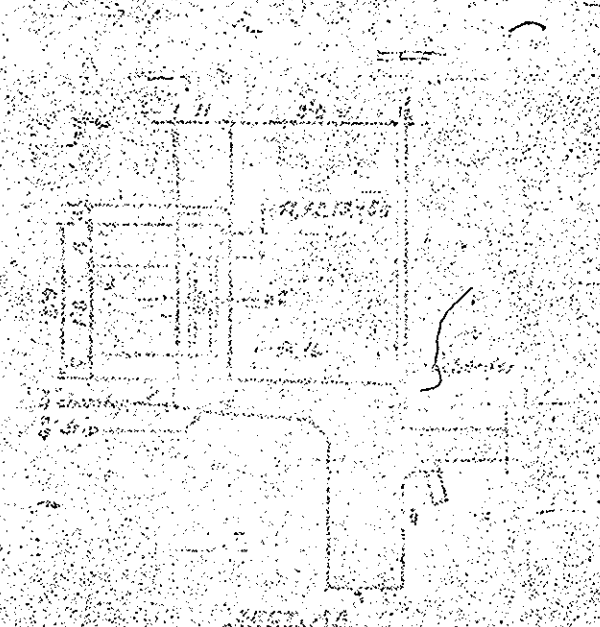
FIG. 25-64(5)



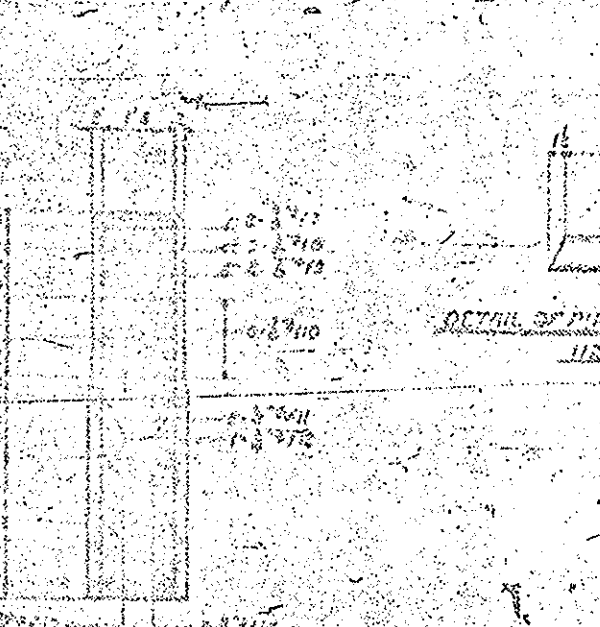
END VIEW - RAILS A-A



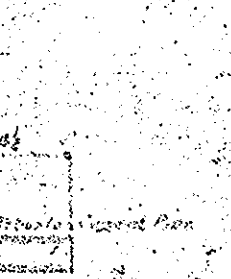
RAIL PROFILES



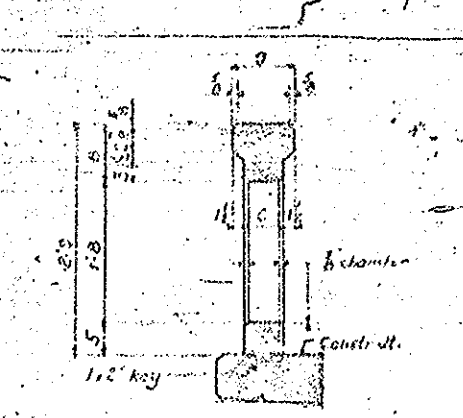
SECTION A-A



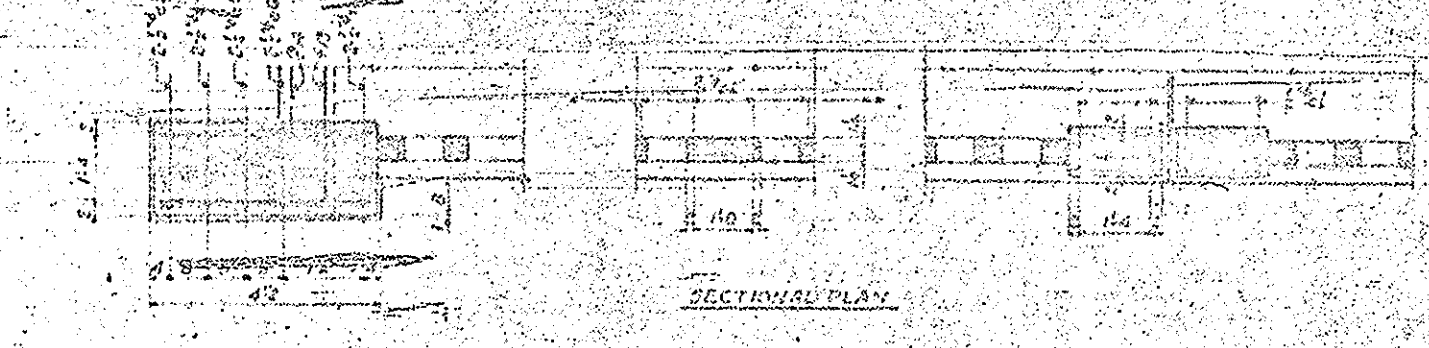
SECTION B-B



DETAIL OF PIPE GUTTER DRAIN



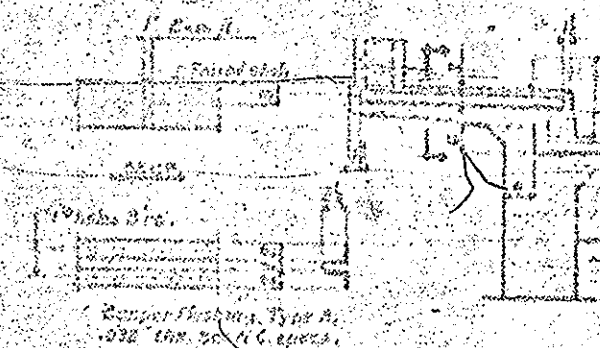
RAILING DETAIL



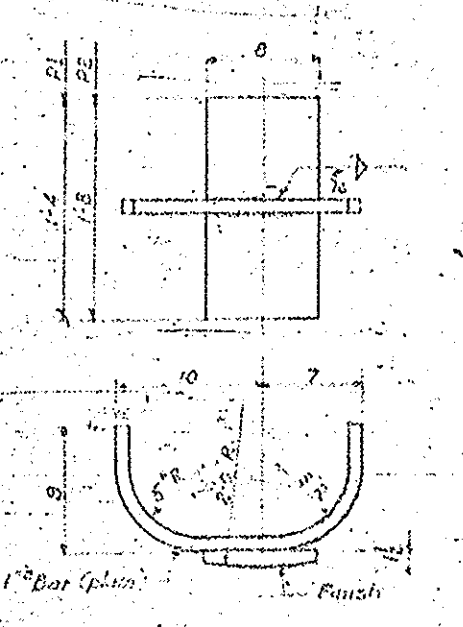
SECTIONAL PLAN



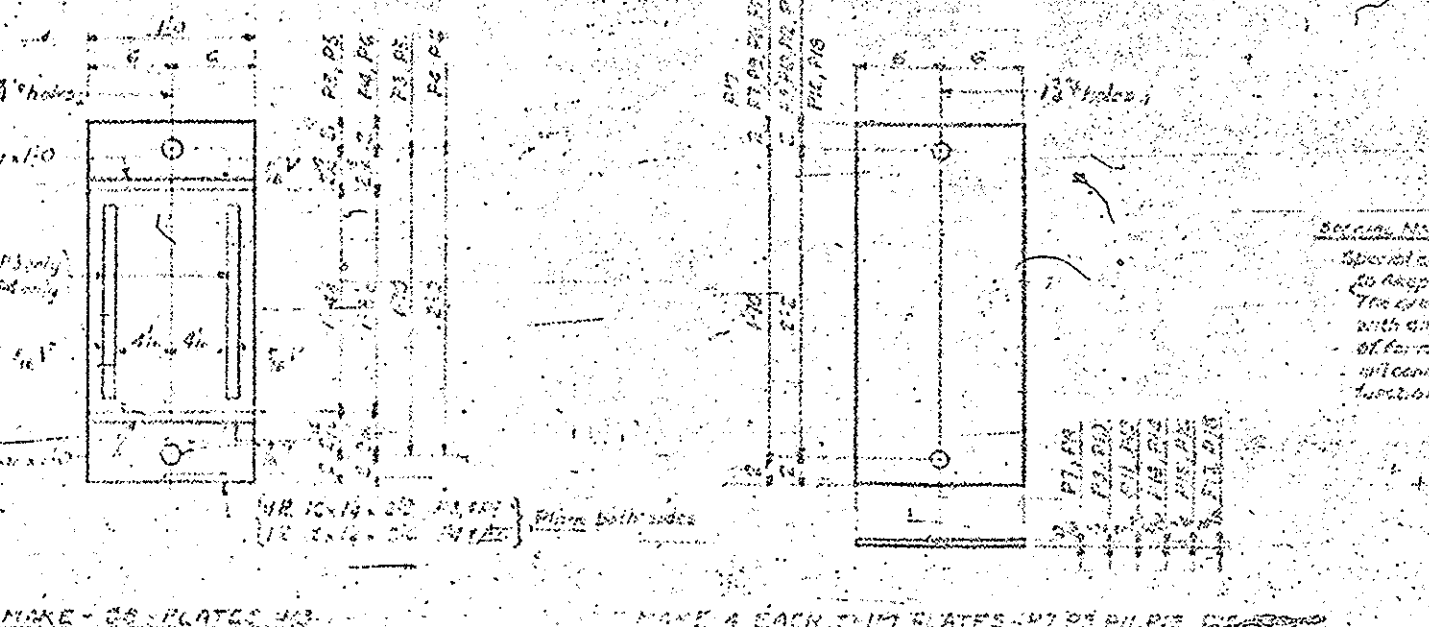
DETAIL C-C



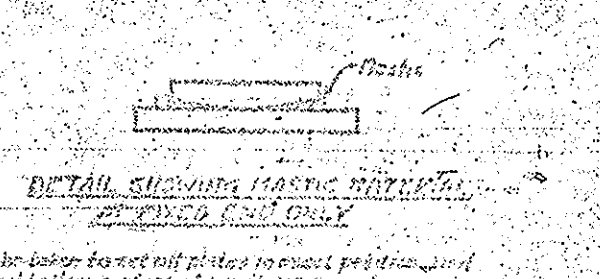
EXPANSION JOINT DETAIL



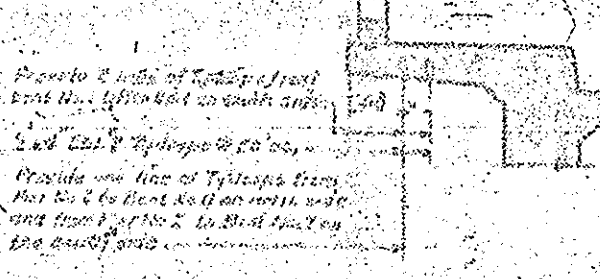
RAILING DETAIL



HANDRAIL DETAILS

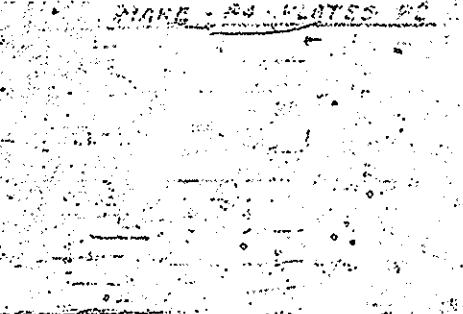


DETAIL SUBMITTING MATERIALS

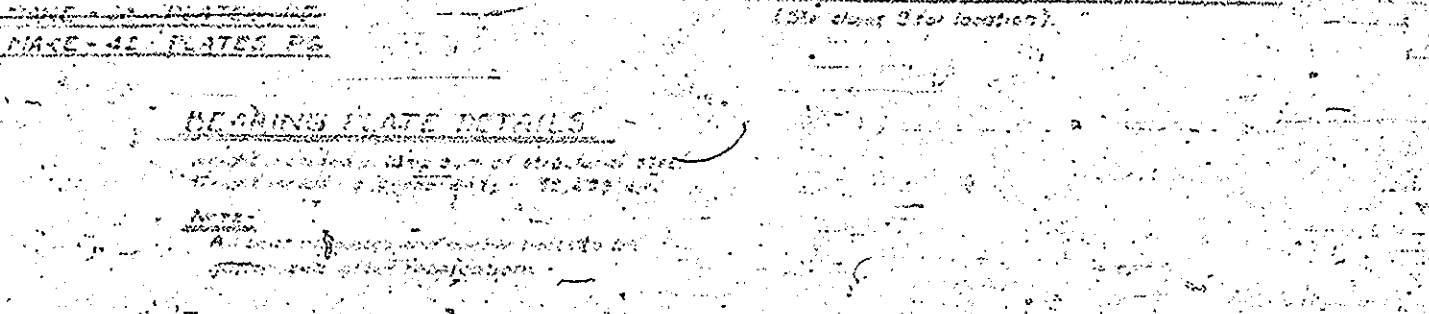


Provide 2 nuts of length of rail
from the bottom in each end.
2nd Nut 1/2" from top of rail.
Provide one line of tyrope from
the top to the bottom of rail, with
one from the top to the bottom of
the base of rail.

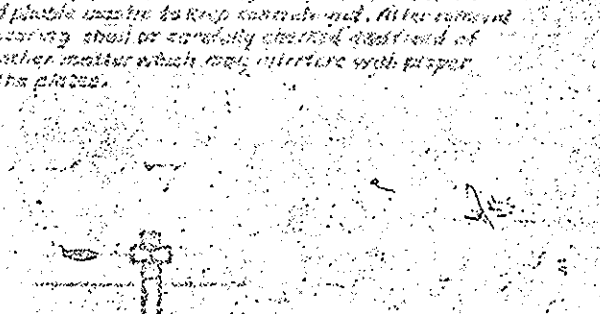
5' x 8' 1/2" steel reinforced tyrope should be provided for
expansion joints. It is to be placed about
1/2" from the top and bottom of the rail, and
about 1/2" from the side of the rail. The tyrope
should be secured with one of the following
methods: 1. Use one of the following methods
to secure the tyrope to the rail.



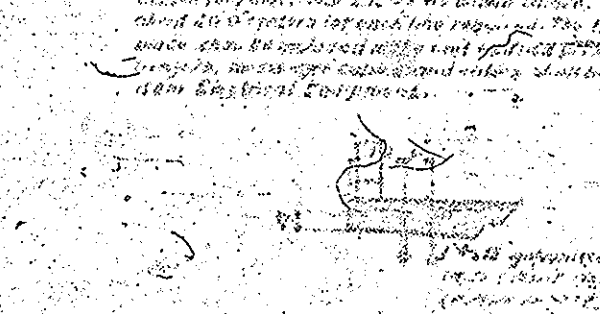
RAILING DETAIL



RAILING DETAIL



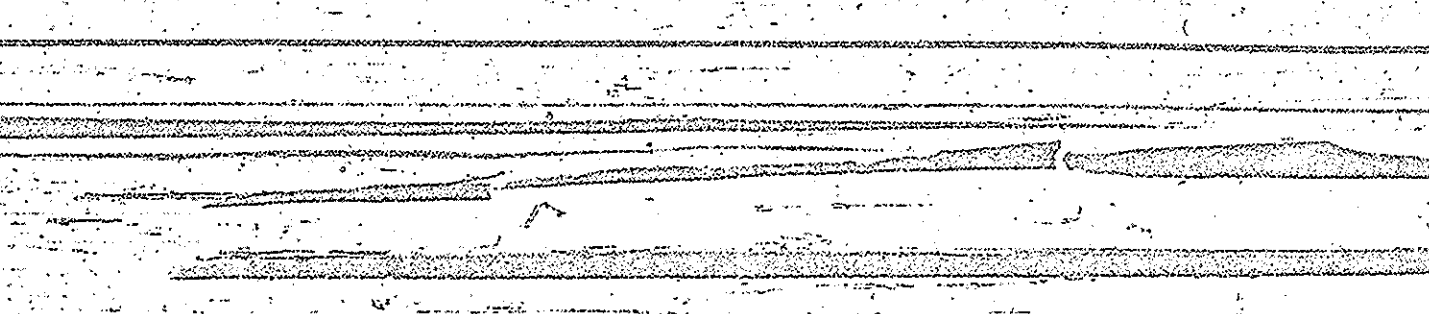
RAILING DETAIL



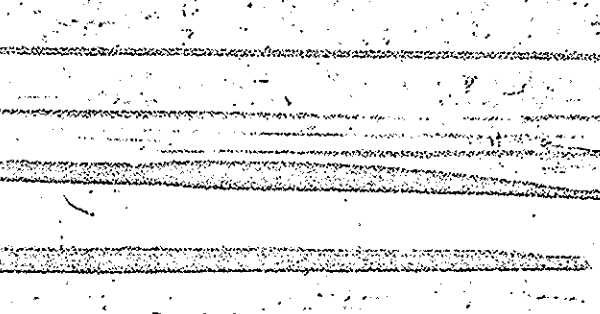
RAILING DETAIL



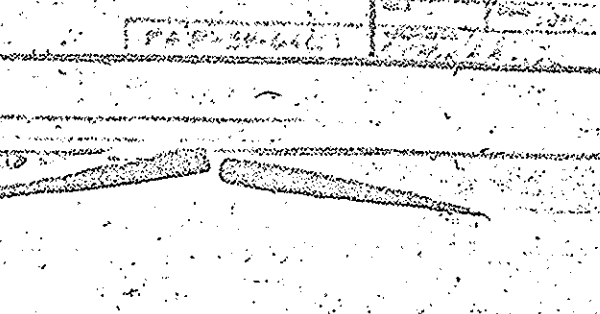
RAILING DETAIL



RAILING DETAIL

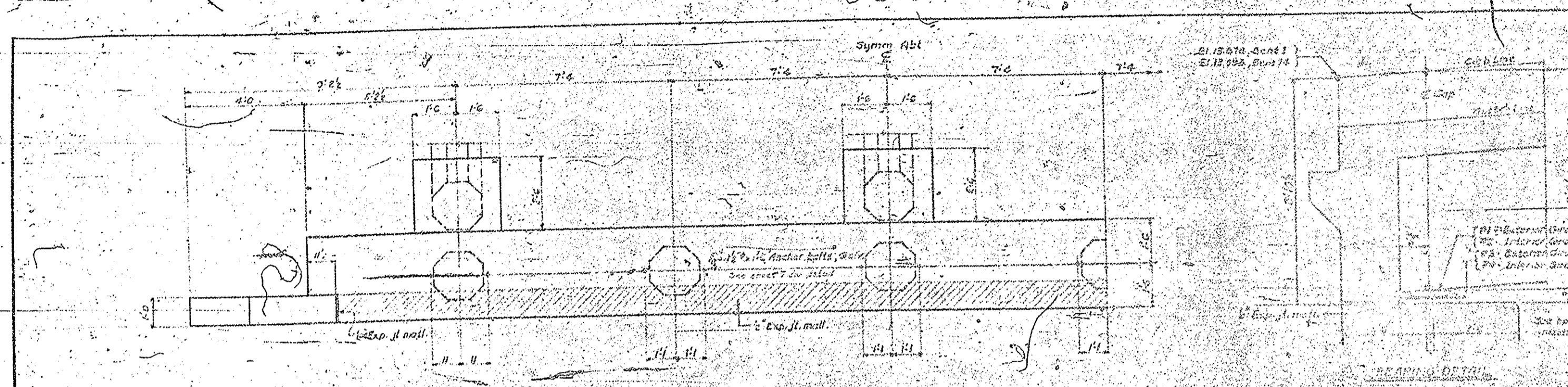


RAILING DETAIL

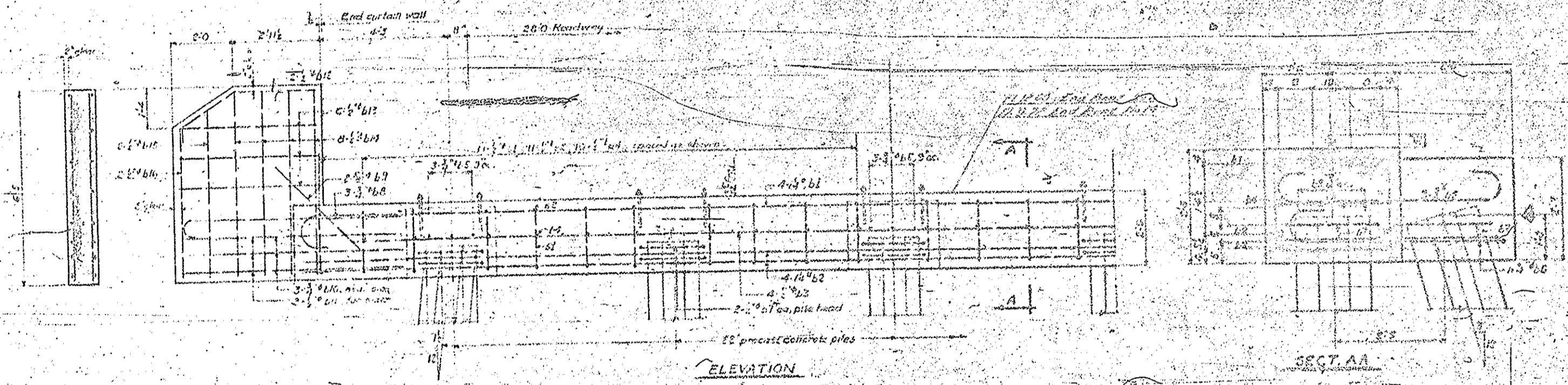


RAILING DETAIL

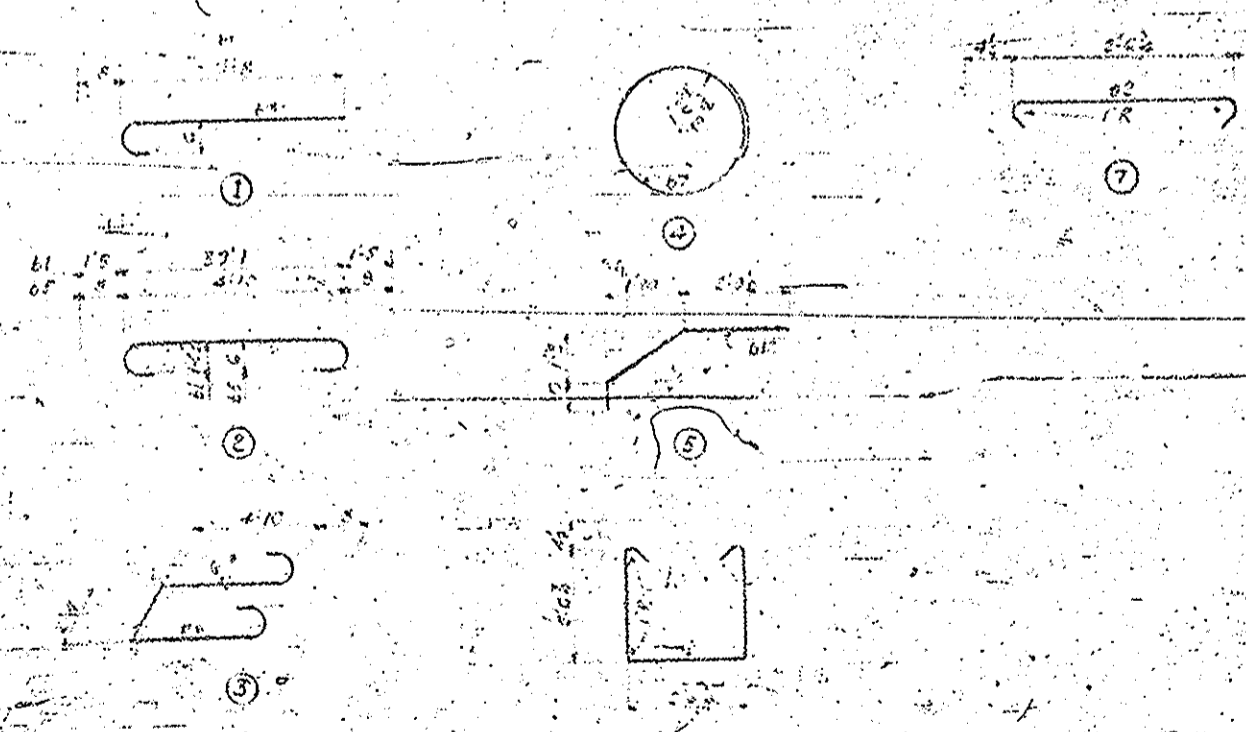
STATE OF NORTH CAROLINA
STATE ENGINEER AND PUBLIC WORKS COMMISSION
PROJECT NO. 1000
L. O. HOPKINS
CONSULTING ENGINEER
RICHMOND, VIRGINIA



PLAN



ELEVATION



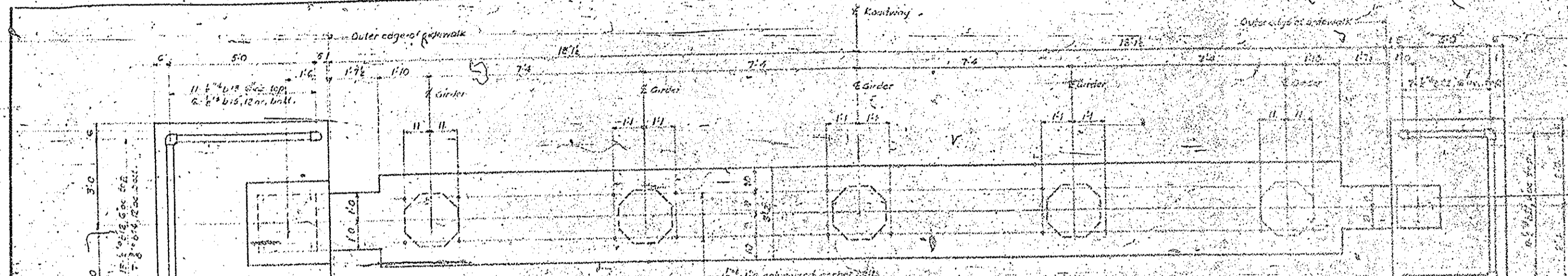
BILL OF MATERIAL (For Own Cost)

MARK	NO. QTY.	SIZE	TYPE	LENGTH	WEIGHT
B1	4	14"	S	11.11'	831
B2	4	14"	S	7.01'	520
B3	4	14"	S	34.6'	22
B4	20	14"	S	5.7'	77
B5	4	14"	S	15.9'	80
B6	10	14"	S	6.3'	48
B7	5	14"	S	17.3'	79
B8	4	14"	S	4.5'	17
B9	5	14"	S	7.5'	53
B10	9	14"	S	7.8'	58
B11	4	14"	S	2.10'	16
B12	12	14"	S	4.75'	37
B13	4	14"	S	5.1'	38
B14	7	14"	S	5.6'	43
B15	6	14"	S	4.0'	31
B16	20	14"	S	7.5'	153
B17	20	14"	S	9.4'	48

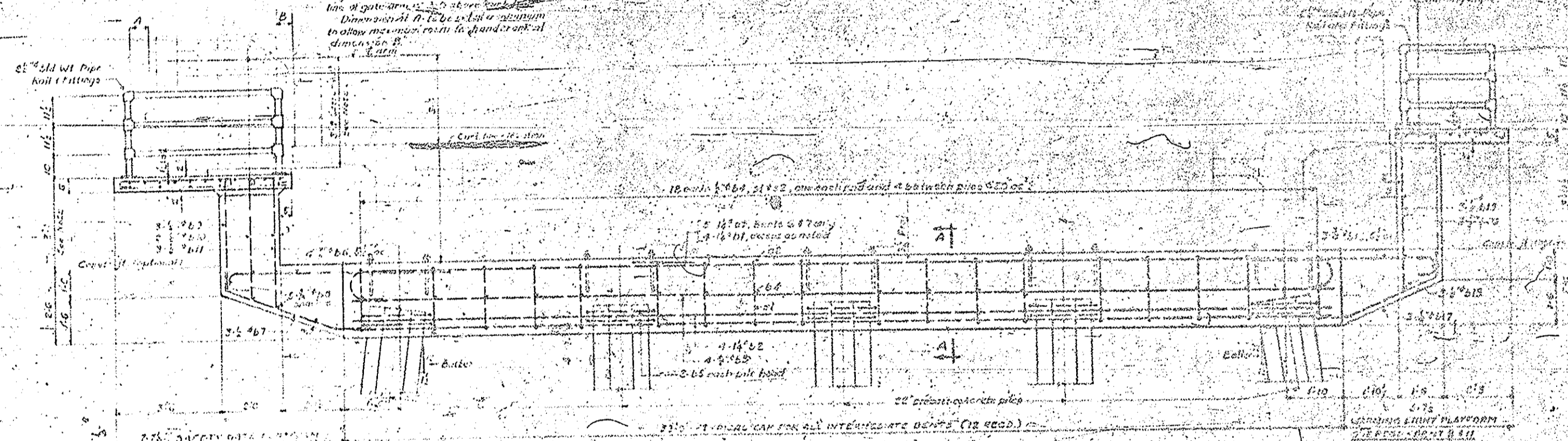
Total weight including steel house cap (incl. 2.5%)
 10,150 lbs.

STATE OF NORTH CAROLINA
 COUNTY OF []
 PROJECT NO. []
 ARCHITECT
 E. D. HOPKINS
 CONSULTING ENGINEER
 []

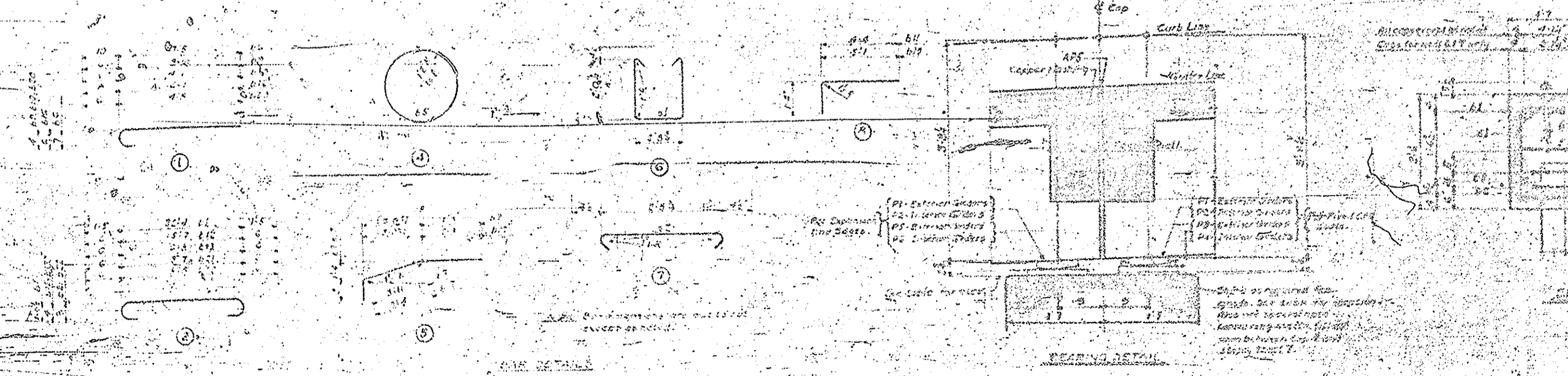
EXP-56-64-11



PLAN



ELEVATION



BAR DETAILS

BEARING DETAIL

SECT A-A

BILL OF MATERIALS

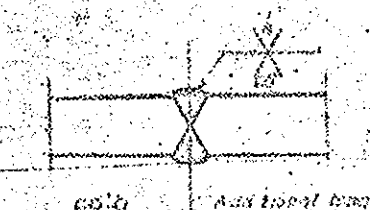
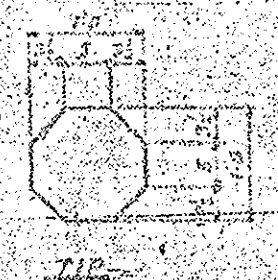
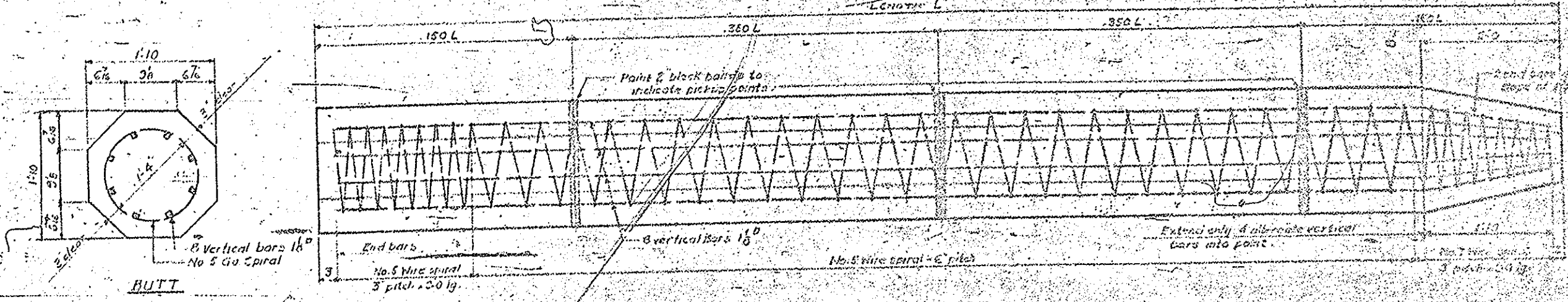
BAR NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	2	18"	2	217
B2	2	18"	1	217
B3	2	18"	1	217
B4	10	1"	1	32
B5	10	1"	1	32
B6	18	1"	1	32
B7	18	1"	1	32
B8	18	1"	1	32
B9	18	1"	1	32
B10	18	1"	1	32
B11	18	1"	1	32
B12	18	1"	1	32
B13	18	1"	1	32
B14	18	1"	1	32
B15	18	1"	1	32
B16	18	1"	1	32
B17	18	1"	1	32
B18	18	1"	1	32
B19	18	1"	1	32
B20	18	1"	1	32
B21	18	1"	1	32
B22	18	1"	1	32
B23	18	1"	1	32
B24	18	1"	1	32
B25	18	1"	1	32
B26	18	1"	1	32
B27	18	1"	1	32
B28	18	1"	1	32
B29	18	1"	1	32
B30	18	1"	1	32
B31	18	1"	1	32
B32	18	1"	1	32
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B36	18	1"	1	32
B37	18	1"	1	32
B38	18	1"	1	32
B39	18	1"	1	32
B40	18	1"	1	32
B41	18	1"	1	32
B42	18	1"	1	32
B43	18	1"	1	32
B44	18	1"	1	32
B45	18	1"	1	32
B46	18	1"	1	32
B47	18	1"	1	32
B48	18	1"	1	32
B49	18	1"	1	32
B50	18	1"	1	32
B51	18	1"	1	32
B52	18	1"	1	32
B53	18	1"	1	32
B54	18	1"	1	32
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B68	18	1"	1	32
B69	18	1"	1	32
B70	18	1"	1	32
B71	18	1"	1	32
B72	18	1"	1	32
B73	18	1"	1	32
B74	18	1"	1	32
B75	18	1"	1	32
B76	18	1"	1	32
B77	18	1"	1	32
B78	18	1"	1	32
B79	18	1"	1	32
B80	18	1"	1	32
B81	18	1"	1	32
B82	18	1"	1	32
B83	18	1"	1	32
B84	18	1"	1	32
B85	18	1"	1	32
B86	18	1"	1	32
B87	18	1"	1	32
B88	18	1"	1	32
B89	18	1"	1	32
B90	18	1"	1	32
B91	18	1"	1	32
B92	18	1"	1	32
B93	18	1"	1	32
B94	18	1"	1	32
B95	18	1"	1	32
B96	18	1"	1	32
B97	18	1"	1	32
B98	18	1"	1	32
B99	18	1"	1	32
B100	18	1"	1	32

Labels and dimensions for various components and materials used in the bridge structure.

RESTRICTIONS & NOTES

RESTRICTION NO.	RESTRICTION	DATE
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STATE OF NORTH CAROLINA
 COUNTY OF HOPKINS
 L. O. HOPKINS
 ENGINEER



TYPICAL PILE DETAIL
110" OCTAGONAL

ESTIMATED QUANTITIES

PILE NO.	NO. OF PILES	LENGTH	QUANTITIES PER PILE			TOTAL QUANTITIES	
			CONCRETE	STEEL	WIRE SPIRAL	CONCRETE	STEEL
1, 2	13	60	12.25	6.25	16.4	159.75	79.00
3, 4	18	70	17.50	9.00	23.5	315.00	162.00
5, 6	10	70	12.25	6.25	16.4	122.50	62.00
7, 8	12	70	14.50	7.50	20.0	174.00	84.00
9, 10	12	70	14.50	7.50	20.0	174.00	84.00
11, 12	12	70	14.50	7.50	20.0	174.00	84.00
13, 14	12	70	14.50	7.50	20.0	174.00	84.00
15, 16	12	70	14.50	7.50	20.0	174.00	84.00
17, 18	12	70	14.50	7.50	20.0	174.00	84.00
19, 20	12	70	14.50	7.50	20.0	174.00	84.00
21, 22	12	70	14.50	7.50	20.0	174.00	84.00
23, 24	12	70	14.50	7.50	20.0	174.00	84.00
25, 26	12	70	14.50	7.50	20.0	174.00	84.00
27, 28	12	70	14.50	7.50	20.0	174.00	84.00
29, 30	12	70	14.50	7.50	20.0	174.00	84.00
31, 32	12	70	14.50	7.50	20.0	174.00	84.00
33, 34	12	70	14.50	7.50	20.0	174.00	84.00
35, 36	12	70	14.50	7.50	20.0	174.00	84.00
37, 38	12	70	14.50	7.50	20.0	174.00	84.00
39, 40	12	70	14.50	7.50	20.0	174.00	84.00
41, 42	12	70	14.50	7.50	20.0	174.00	84.00
43, 44	12	70	14.50	7.50	20.0	174.00	84.00
45, 46	12	70	14.50	7.50	20.0	174.00	84.00
47, 48	12	70	14.50	7.50	20.0	174.00	84.00
49, 50	12	70	14.50	7.50	20.0	174.00	84.00
51, 52	12	70	14.50	7.50	20.0	174.00	84.00
53, 54	12	70	14.50	7.50	20.0	174.00	84.00
55, 56	12	70	14.50	7.50	20.0	174.00	84.00
57, 58	12	70	14.50	7.50	20.0	174.00	84.00
59, 60	12	70	14.50	7.50	20.0	174.00	84.00
61, 62	12	70	14.50	7.50	20.0	174.00	84.00
63, 64	12	70	14.50	7.50	20.0	174.00	84.00
65, 66	12	70	14.50	7.50	20.0	174.00	84.00
67, 68	12	70	14.50	7.50	20.0	174.00	84.00
69, 70	12	70	14.50	7.50	20.0	174.00	84.00
71, 72	12	70	14.50	7.50	20.0	174.00	84.00
73, 74	12	70	14.50	7.50	20.0	174.00	84.00
75, 76	12	70	14.50	7.50	20.0	174.00	84.00
77, 78	12	70	14.50	7.50	20.0	174.00	84.00
79, 80	12	70	14.50	7.50	20.0	174.00	84.00
81, 82	12	70	14.50	7.50	20.0	174.00	84.00
83, 84	12	70	14.50	7.50	20.0	174.00	84.00
85, 86	12	70	14.50	7.50	20.0	174.00	84.00
87, 88	12	70	14.50	7.50	20.0	174.00	84.00
89, 90	12	70	14.50	7.50	20.0	174.00	84.00
91, 92	12	70	14.50	7.50	20.0	174.00	84.00
93, 94	12	70	14.50	7.50	20.0	174.00	84.00
95, 96	12	70	14.50	7.50	20.0	174.00	84.00
97, 98	12	70	14.50	7.50	20.0	174.00	84.00
99, 100	12	70	14.50	7.50	20.0	174.00	84.00

SUMMARY

Reinforced Concrete 182,700 cu. ft.

Concrete 221,400 cu. ft.

Total length of 22 piles 1,540 lineal ft.

Method of Pile Driving 115' 11/2" dia.

DETAIL QUANTITIES

Concrete in 110" dia. 109,500 cu. ft.

Concrete in 110" dia. 127,900 cu. ft.

Wire spiral in 110" dia. 1,071 lbs.

Wire spiral in 110" dia. 2,000 lbs.

Wire spiral in 110" dia. 2,000 lbs.

NOTES

1. Piles shall be driven to a depth of 70 feet below ground level.

2. Reinforcing steel shall be minimum 1/2 inch diameter and spaced 12 inches on center.

3. All piles shall be driven to a depth of 70 feet below ground level.

4. Method of pile driving shall be approved by the Engineer.

5. Material to be used shall be as specified in the contract.

6. The North line shall be as shown on the plan.

7. Contractor shall provide and drive 4 by 6 lag bolts for each pile.

8. Piles shall be driven to a depth of 70 feet below ground level.

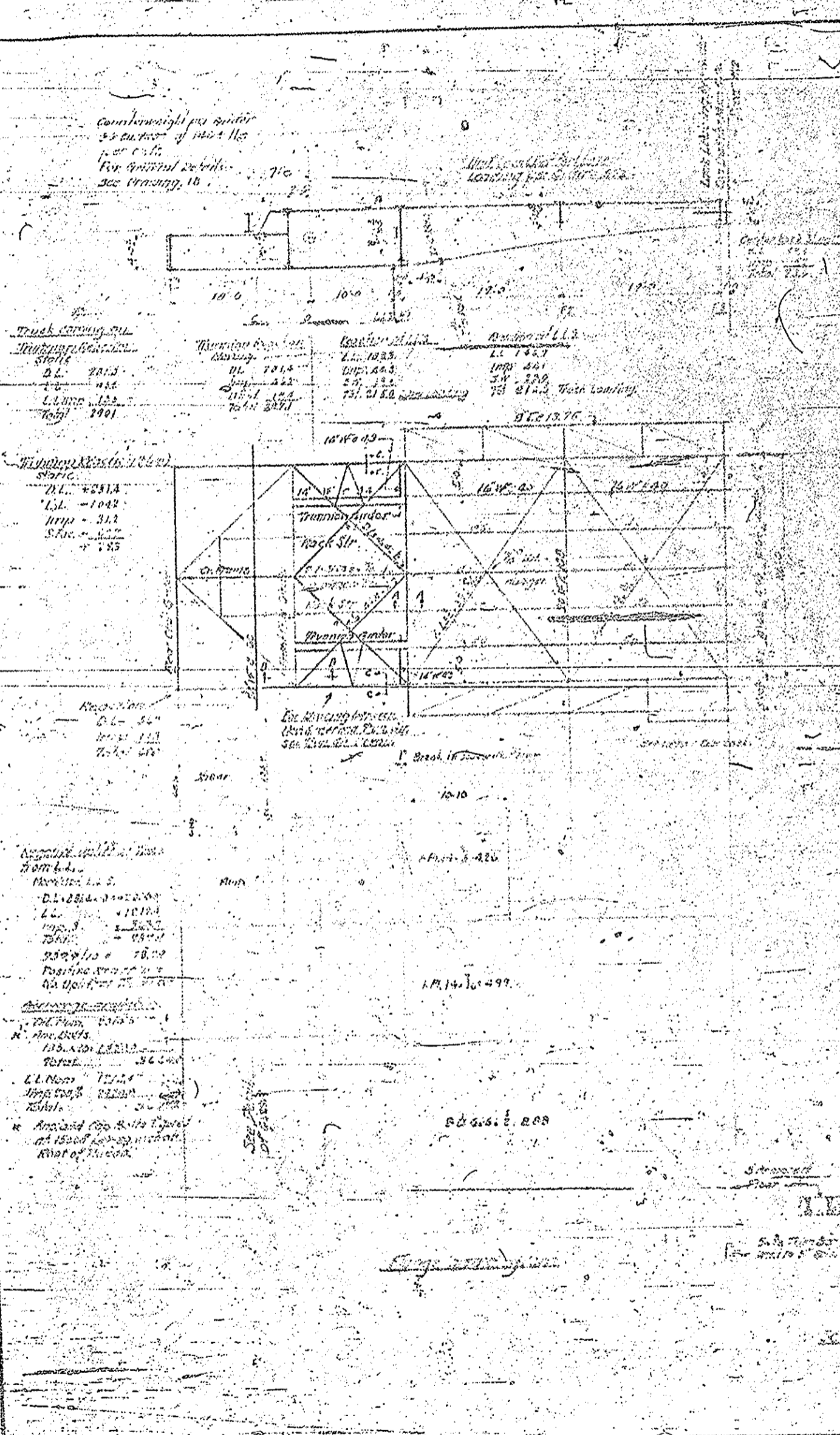
9. All piles shall be driven to a depth of 70 feet below ground level.

10. Piles shall be driven to a depth of 70 feet below ground level.

STATE OF MONTANA
COUNTY OF DEWEE
L. O. HOPKINS
CONSULTING ENGINEER
BISMARCK, MONTANA

DATE: 1914

10



Approximate Dimensions

Col.	DL	LL	SW	W.P.	Total
1	10.0	10.0	10.0	10.0	40.0
2	10.0	10.0	10.0	10.0	40.0
3	10.0	10.0	10.0	10.0	40.0
4	10.0	10.0	10.0	10.0	40.0
5	10.0	10.0	10.0	10.0	40.0

Other Dimensions

Col.	DL	LL	SW	W.P.	Total
1	10.0	10.0	10.0	10.0	40.0
2	10.0	10.0	10.0	10.0	40.0
3	10.0	10.0	10.0	10.0	40.0
4	10.0	10.0	10.0	10.0	40.0
5	10.0	10.0	10.0	10.0	40.0

GENERAL NOTES

1. All dimensions are in feet and inches unless otherwise specified.

2. The contractor shall be responsible for obtaining all necessary permits and approvals.

3. The contractor shall maintain access to all existing utilities and structures.

4. The contractor shall provide adequate shoring and bracing for all excavations.

5. The contractor shall protect all existing structures and utilities from damage.

6. The contractor shall maintain a clean and safe work site at all times.

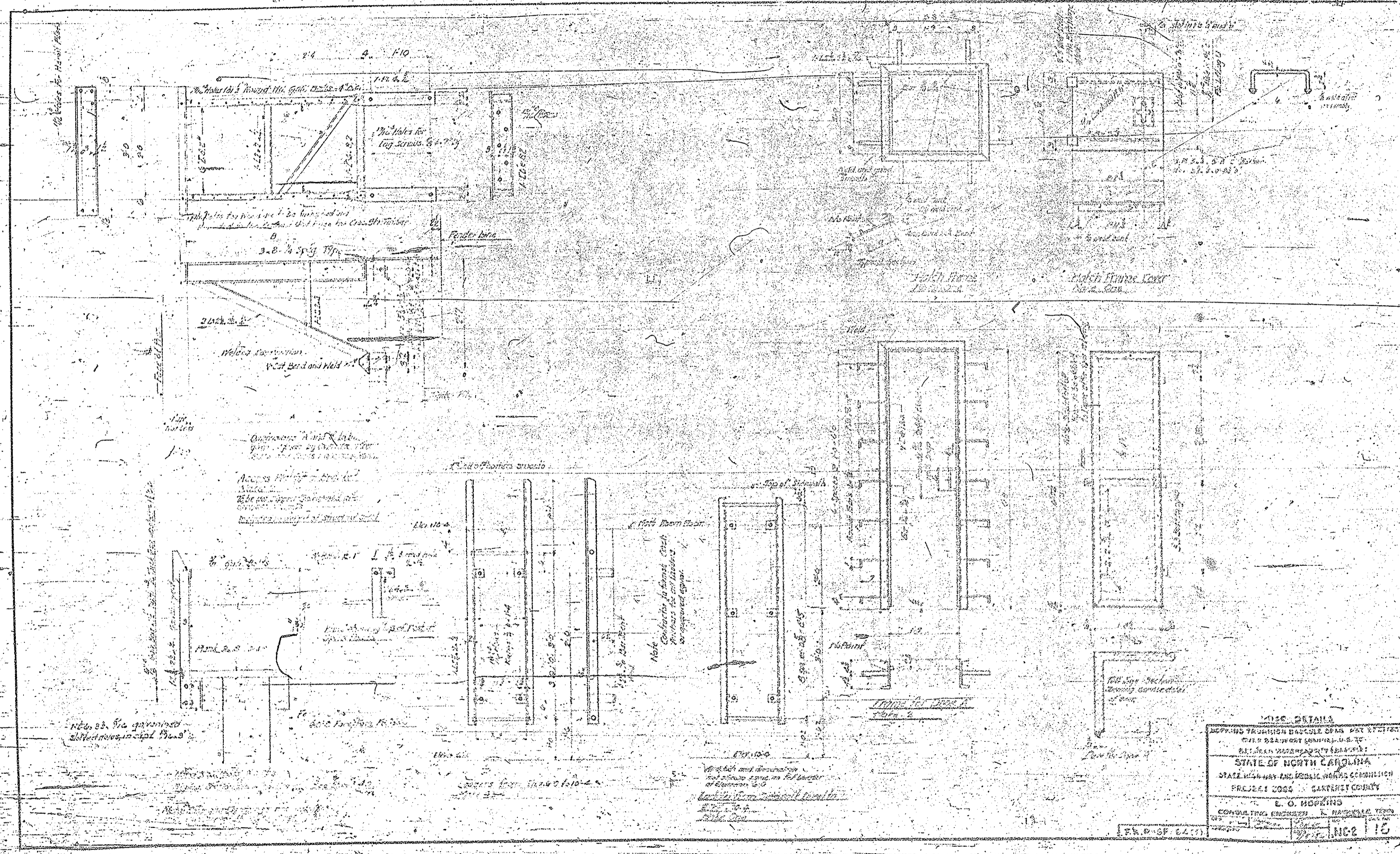
7. The contractor shall provide a detailed schedule of work and progress reports.

8. The contractor shall be responsible for the removal and disposal of all construction waste.

9. The contractor shall provide a final as-built drawing of the completed work.

10. The contractor shall be responsible for the repair and restoration of any damaged areas.

STATE OF NORTH CAROLINA
 COUNTY OF []
 PROJECT NO. []
 DATE OF ISSUE []
 DRAWN BY []
 CHECKED BY []
 APPROVED BY []



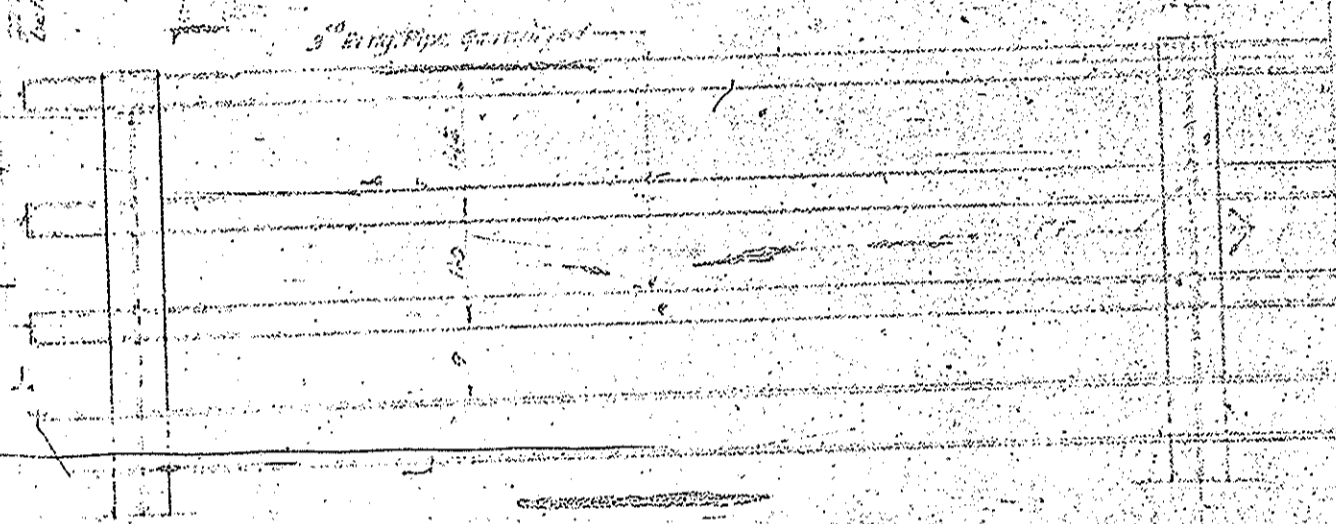
MISC DETAILS
 REPRODUCED FROM THE RECORDS OF THE STATE ARCHIVES
 STATE OF NORTH CAROLINA
 STATE ARCHIVES AND RECORDS COMMISSION
 PROJECT 2004 - GARDNER COUNTY
 E. O. HOPKINS
 CONSULTING ENGINEER, L. HARRISVILLE, NORTH CAROLINA
 1928

PH. D. 87 2470

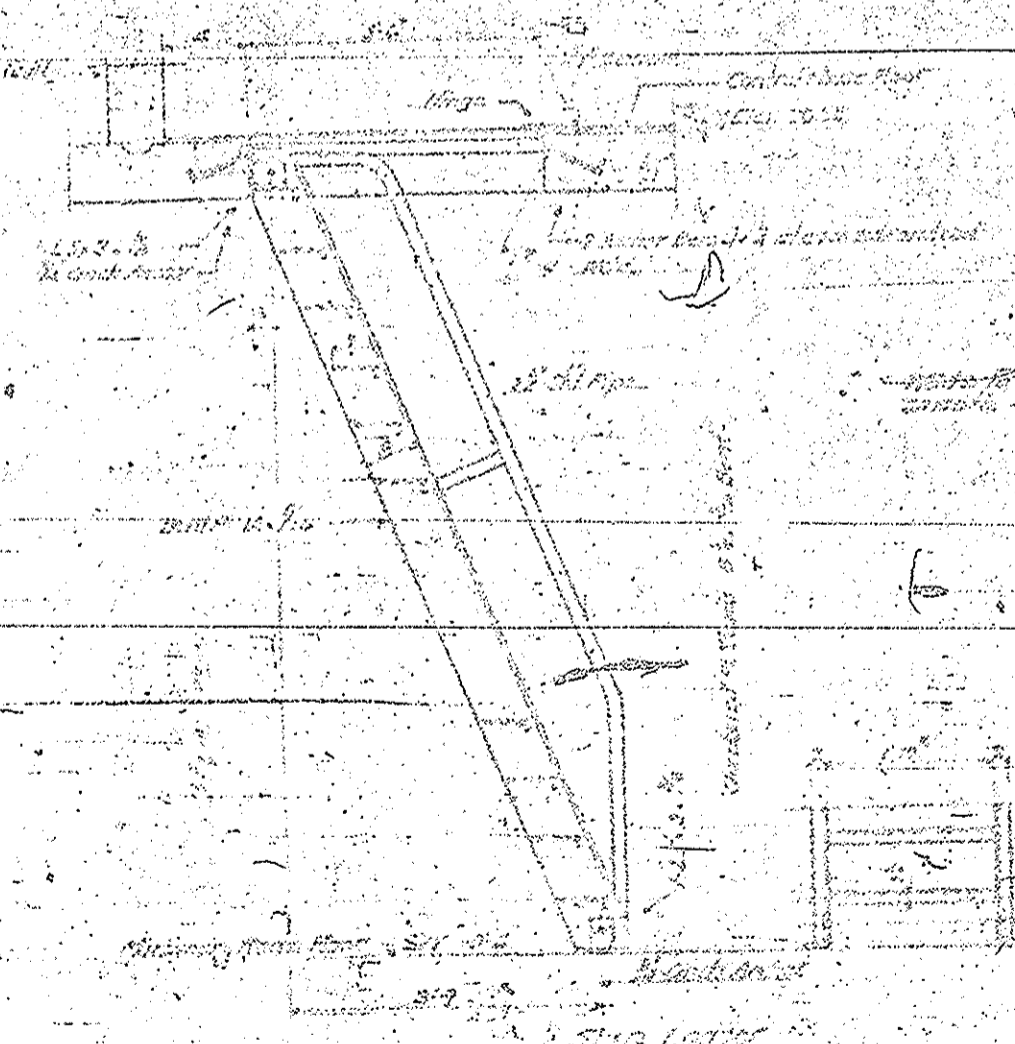
115

114 at End post
110 at Picc. End.

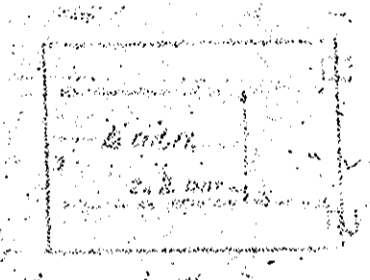
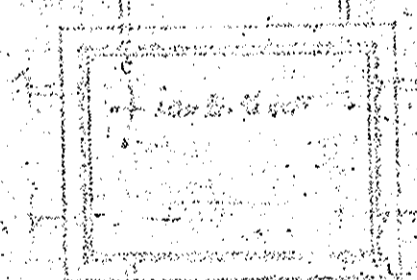
End post (and panel) shall be erected simultaneously, so as to prevent sliding long end at joints. This end east.



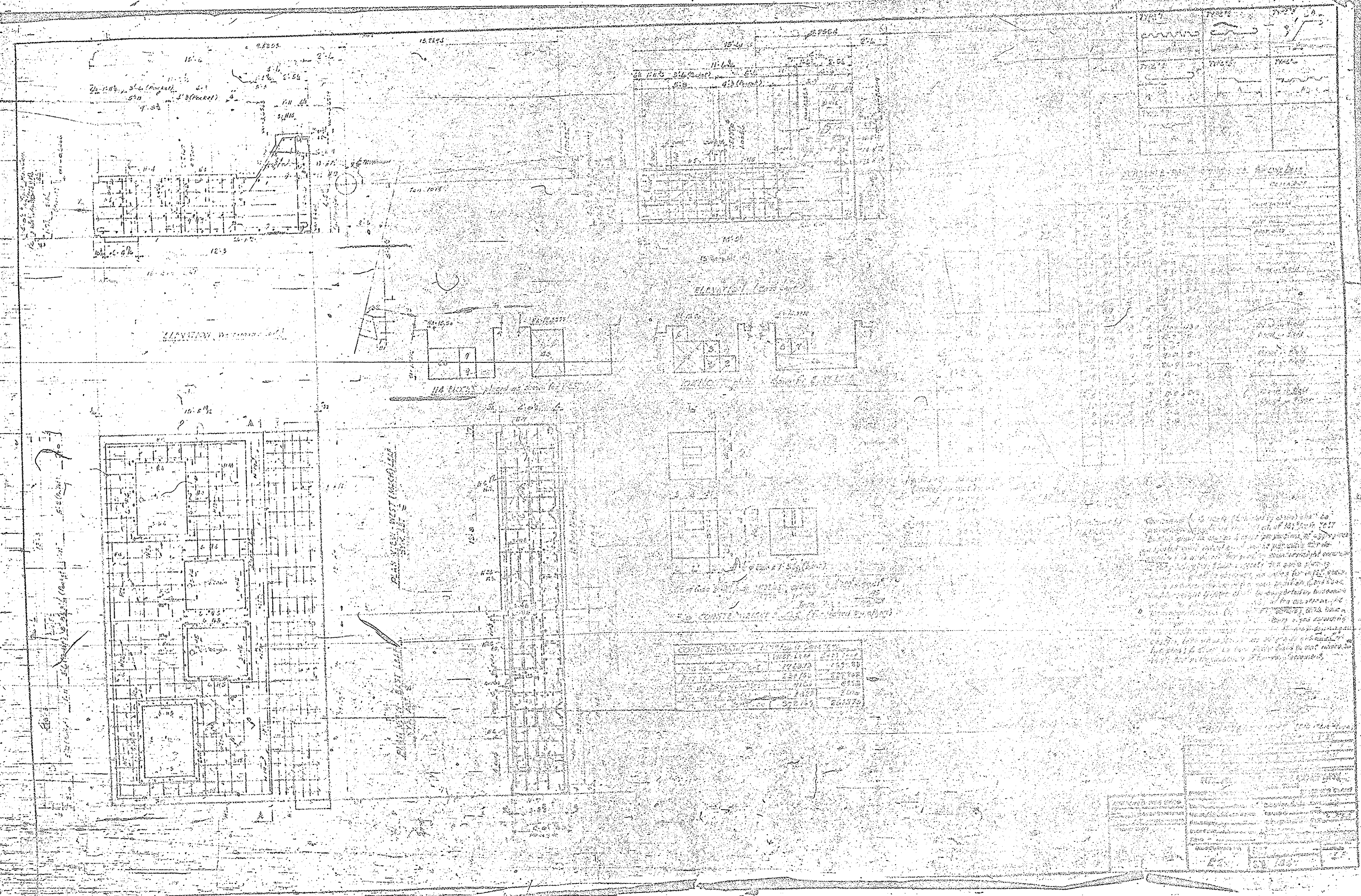
Truss from end of bridge south
The structure of this truss is to be
the same as that of the
main truss, but the
weight of steel of steel.



End post shall be erected
simultaneously with the
main truss.



MASS RAIL TRUSS DETAILS
STATE OF NORTH CAROLINA
L. O. HOPKINS
N.C. 17

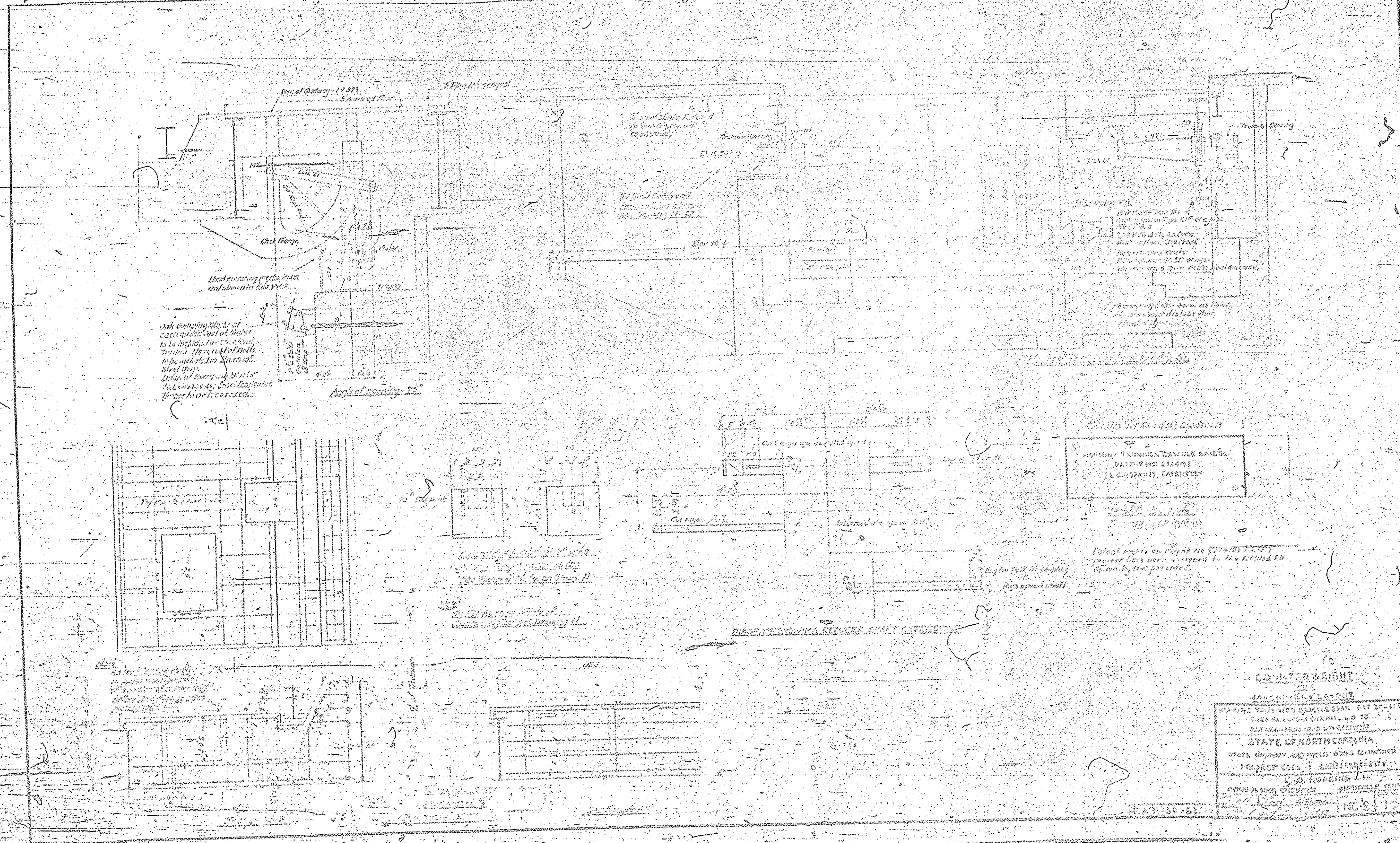


15-1	15-2	15-3
15-4	15-5	15-6
15-7	15-8	15-9
15-10	15-11	15-12

15-13	15-14	15-15
15-16	15-17	15-18
15-19	15-20	15-21
15-22	15-23	15-24

This plan shows the layout of the building as of 1917. It is based on the original plan of 1914, but with several changes. The main changes are the addition of the new bays in the center and the re-arrangement of the rooms in the top right section. The dimensions of the building are 150 feet by 100 feet. The plan is drawn to a scale of 1/4" = 1'-0".

15-25	15-26	15-27
15-28	15-29	15-30
15-31	15-32	15-33
15-34	15-35	15-36



Line of Ceiling - 11' 0"

Line of Floor - 8' 0"

Height of ceiling - 9' 6"

Arch opening of window and above in this view.

Arch opening of window to be indicated in this view. Frame of arch of window to be indicated in this view. Arch of opening to be indicated in this view. Arch of opening to be indicated in this view.

CONTRACTOR'S SPECIFICATIONS

CONTRACTOR'S SPECIFICATIONS

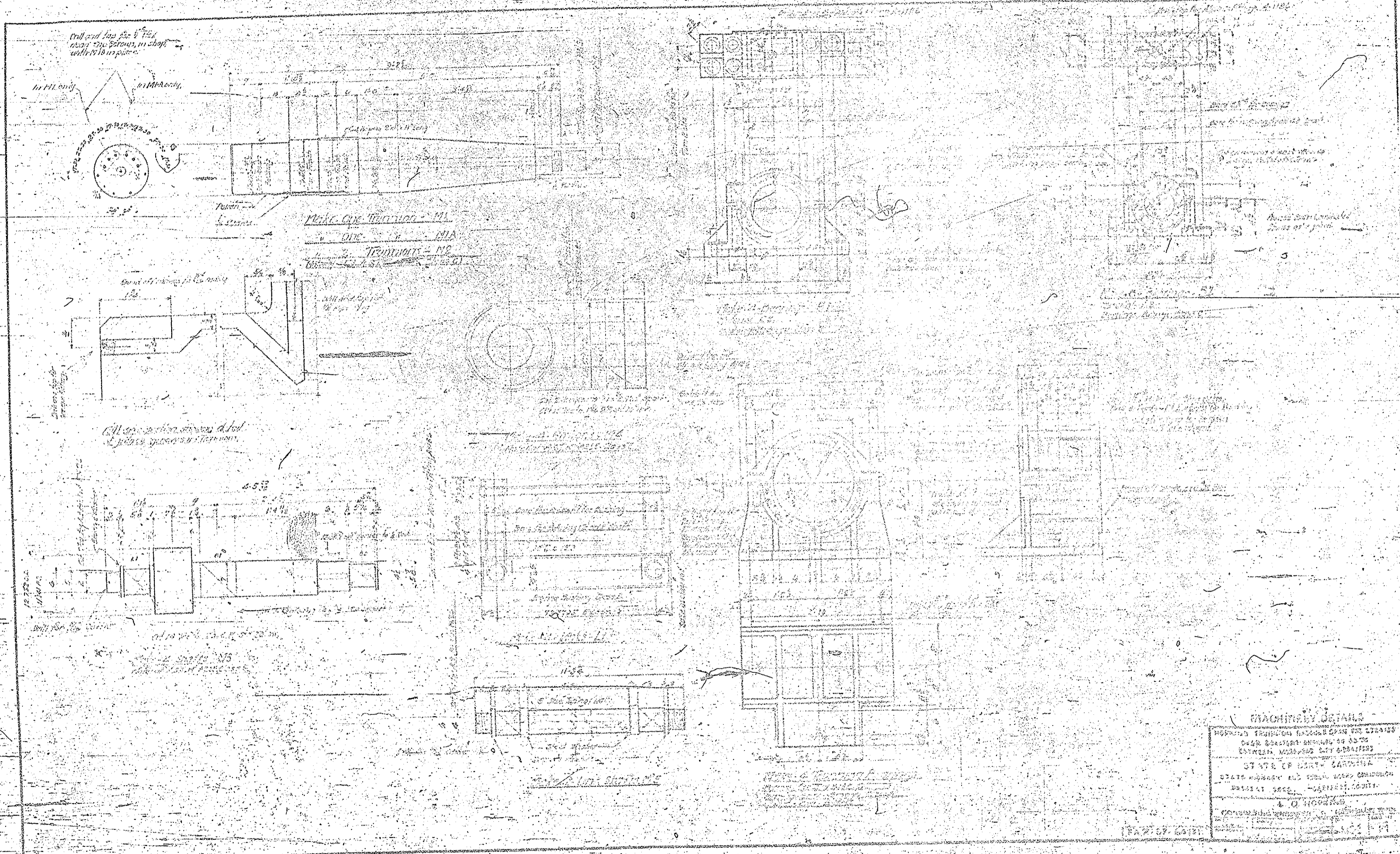
CONTRACTOR'S SPECIFICATIONS

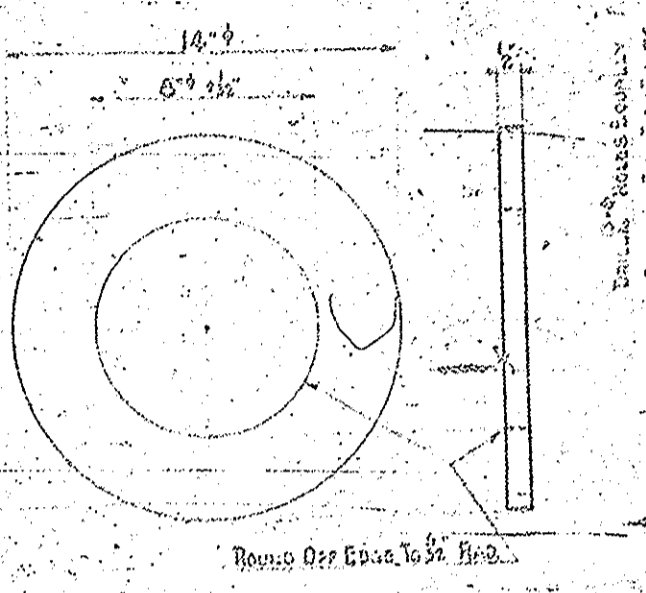
COUNTYWEIGHT

STATE OF NORTH CAROLINA

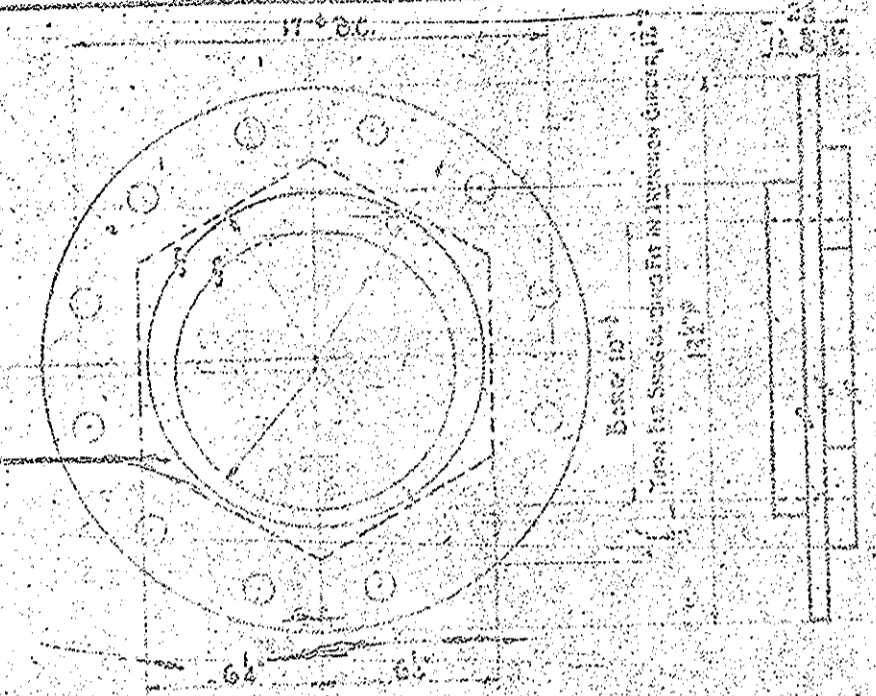
PROJECT NO. 1

DATE OF ISSUE

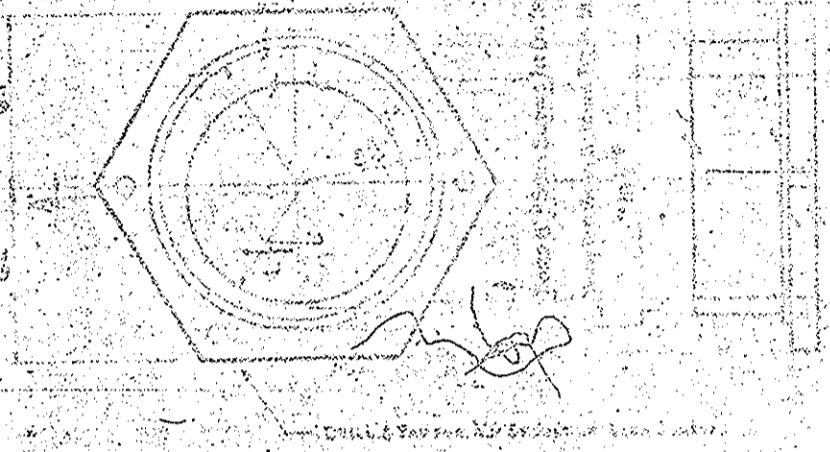




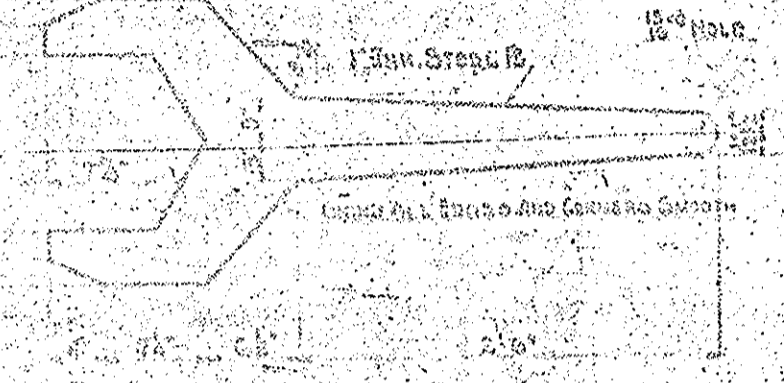
MAKE 4 ECCENTRIC PARTS M6
MATERIAL: SAE 1045



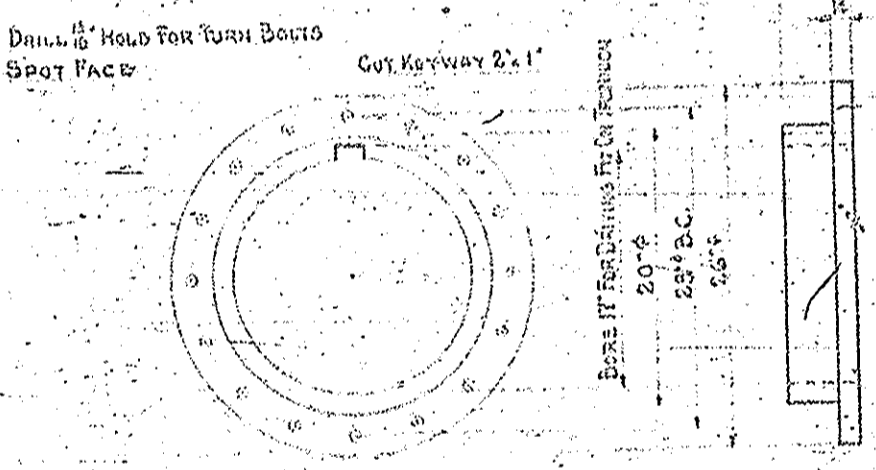
MAKE 4 ECCENTRIC PARTS M7
MATERIAL: C.S.



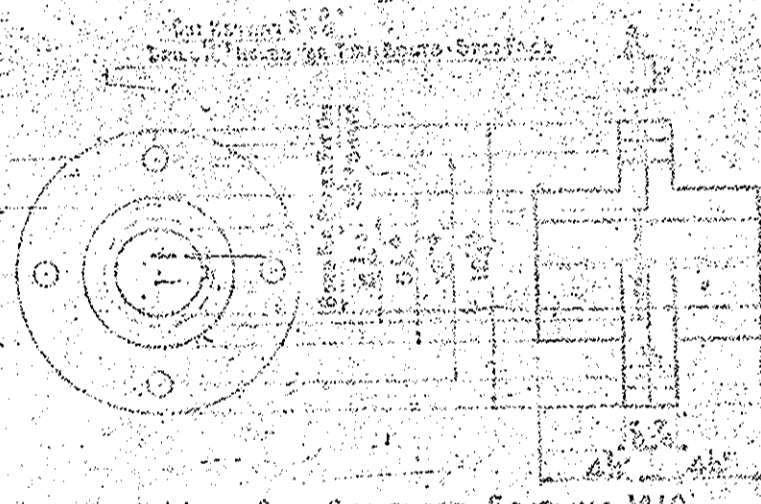
MAKE 3 ECCENTRIC PARTS M8
MATERIAL: C.S.



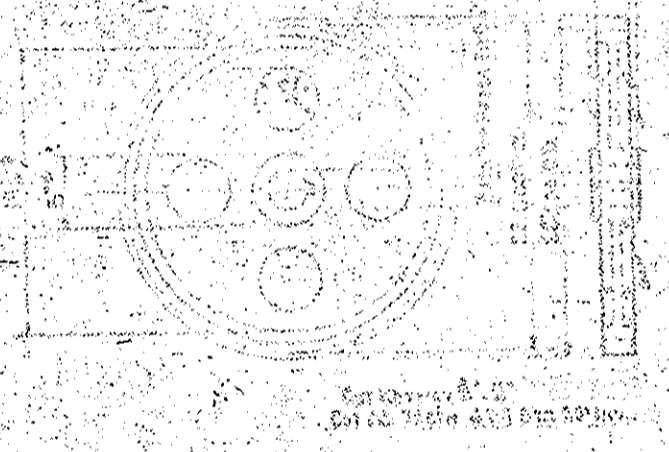
MAKE 1 ECCENTRIC PART M9
MATERIAL: SAE 1045



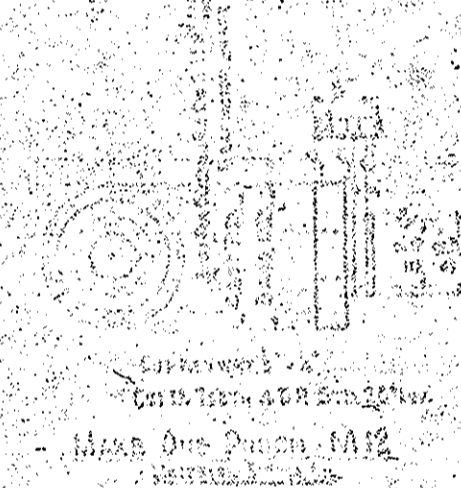
MAKE 8 TRUNNION COLLARS M7
MATERIAL: C.S.



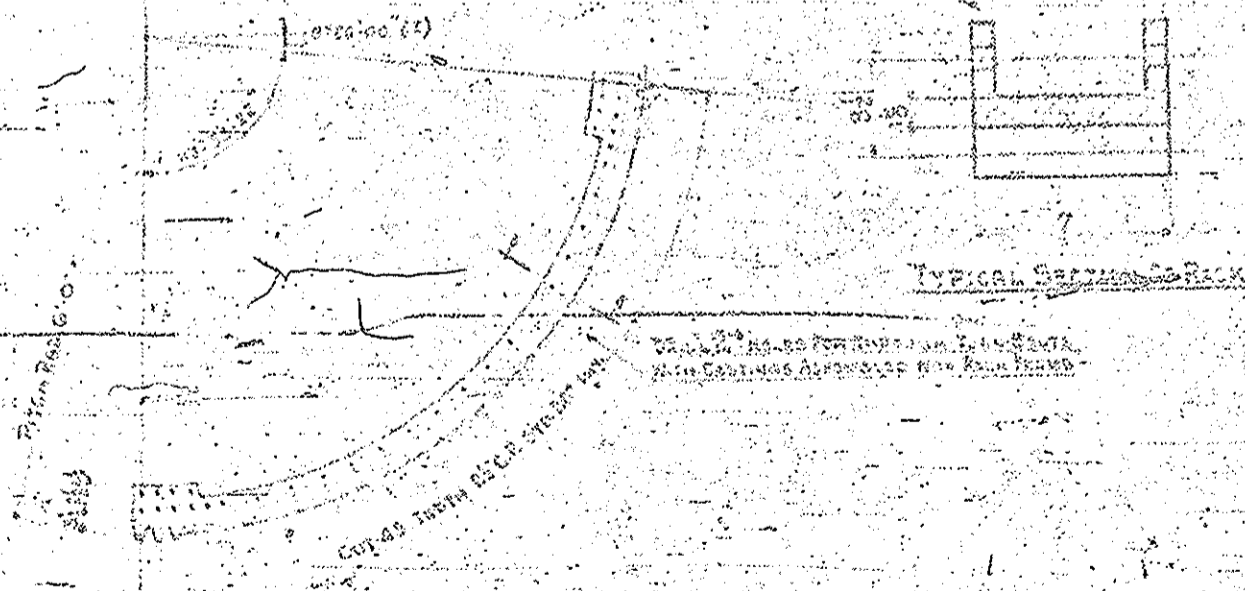
MAKE ONE COMPLETE COUPLING M10
MATERIAL: C.S.



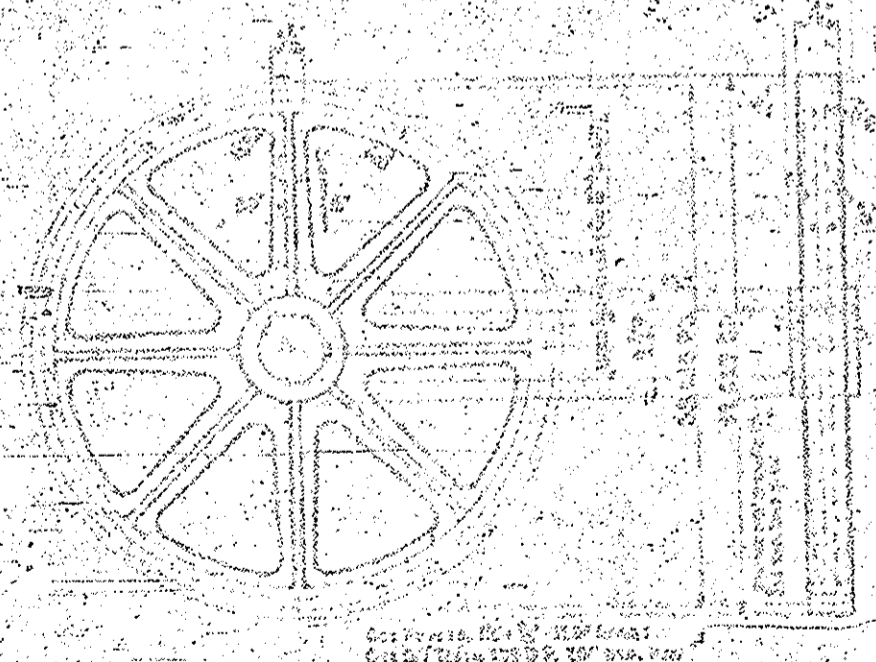
MAKE ONE GEAR M11
MATERIAL: SAE 1045



MAKE ONE GEAR M12
MATERIAL: SAE 1045

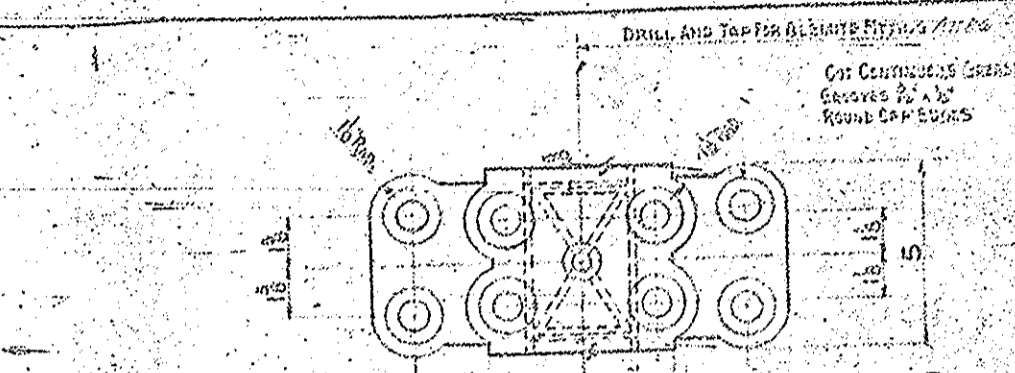


MAKE 4 BACKS M12
MATERIAL: C.S.

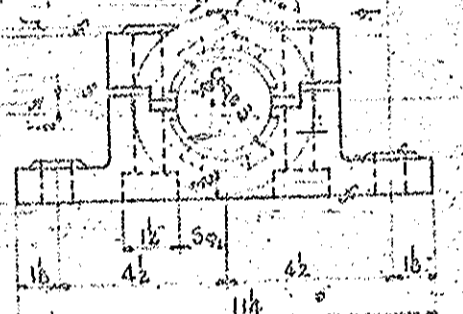


MAKE 4 GEARS M13
MATERIAL: SAE 1045

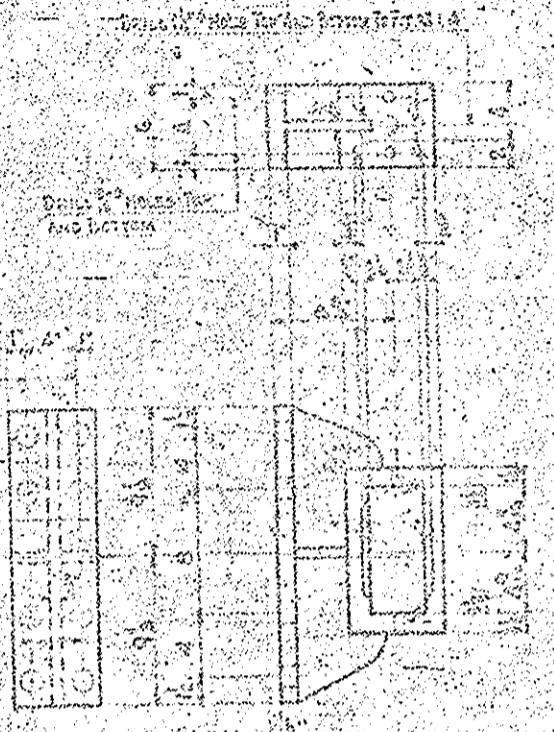
MANUFACTURED BY
STATE OF NORTH CAROLINA
STATE ENGINEER AND PUBLIC WORKS COMMISSION
APPROVED FOR THE STATE OF NORTH CAROLINA
J. C. HOFFER
COMMISSIONER



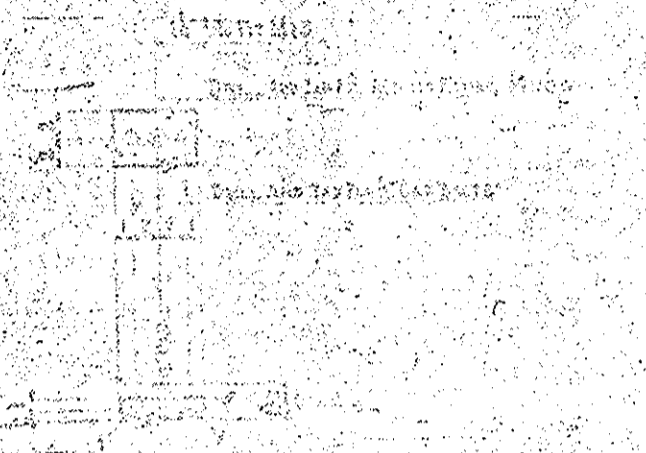
BOILER ROOMING
 CASE BEARING ASSEMBLY



MAKE ONE BEARING B3
 MATERIAL C.S.
 HARDENED



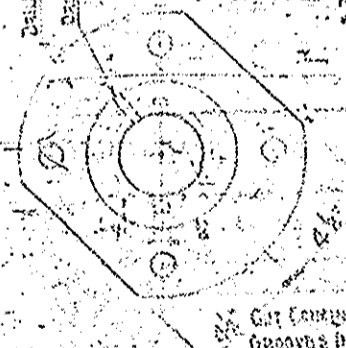
MAKE 2 CENTER LOCK CASTINGS M13
 MATERIAL C.S.



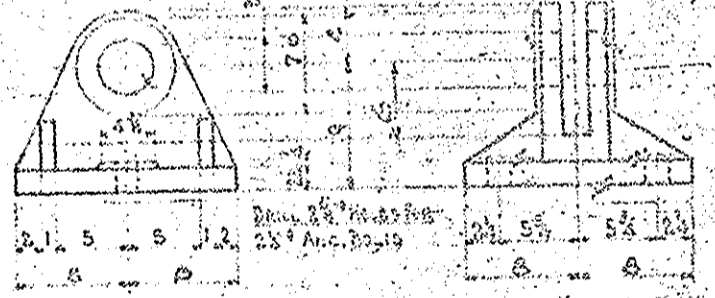
MAKE 4 CENTER LOCK CASTINGS M15
 MATERIAL C.S.



MAKE 4 CENTER LOCK CASTINGS M16
 MATERIAL C.S.

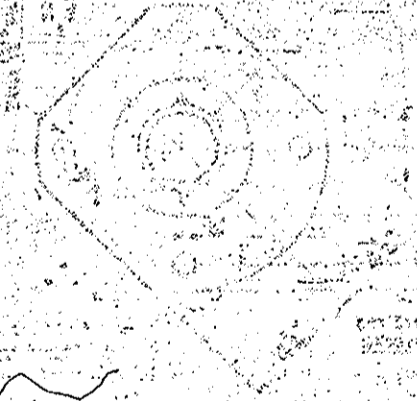


MAKE 5 BEARINGS B4
 MATERIAL C.S.
 HARDENED



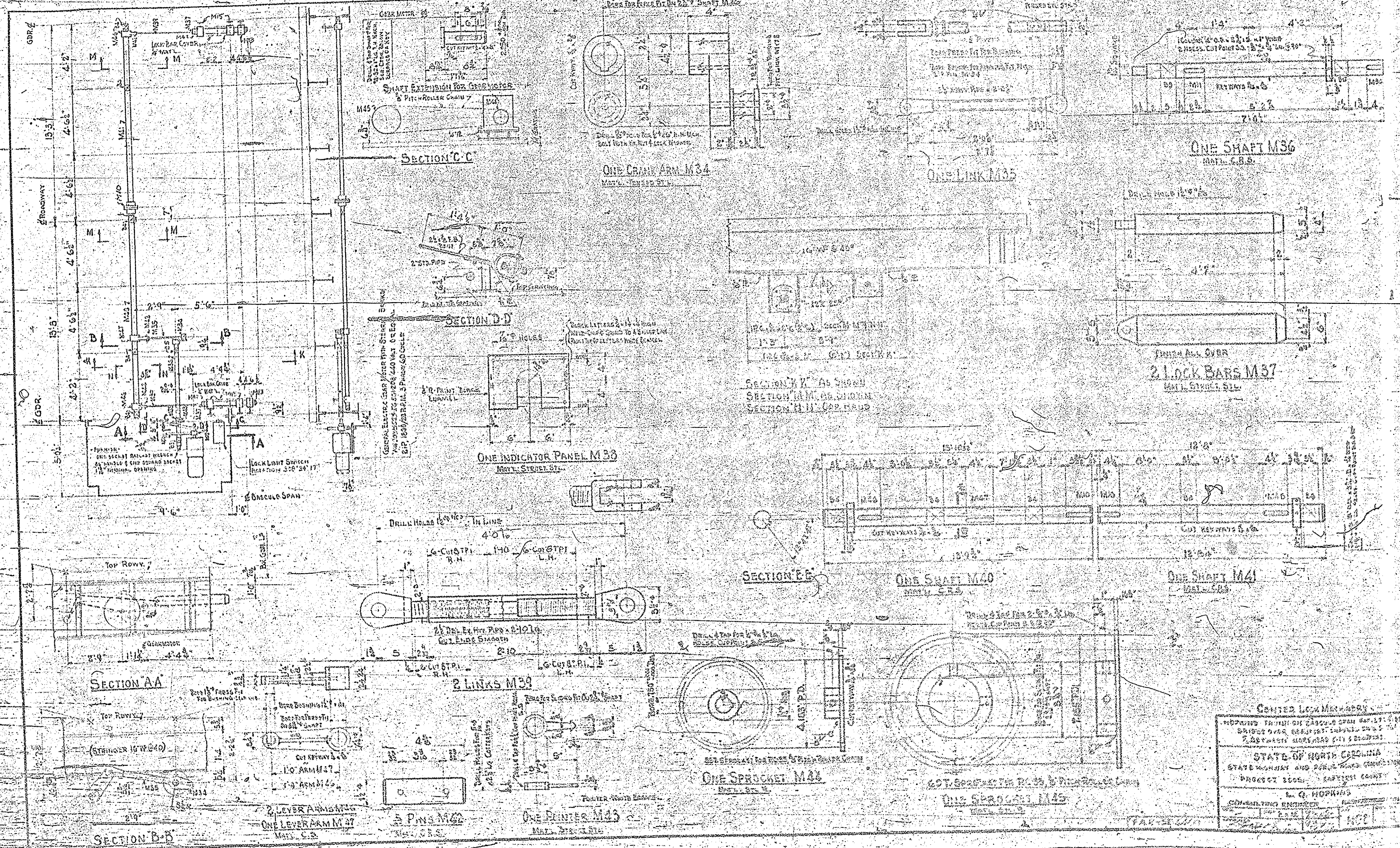
MAKE 4 MACHINERY FRAME SHOES M17
 MATERIAL C.S.

MAKE 4 SHOE PINS M16
 MATERIAL C.S.



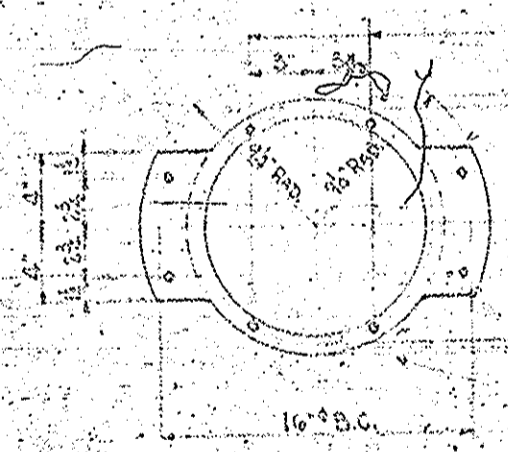
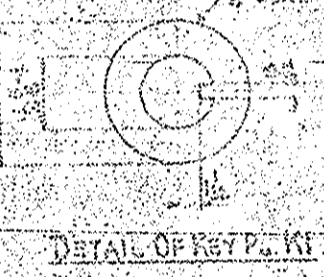
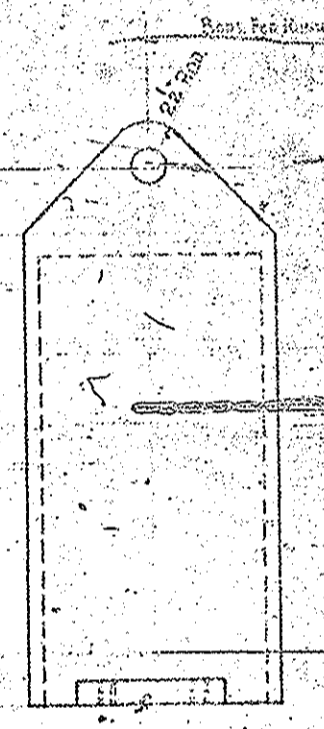
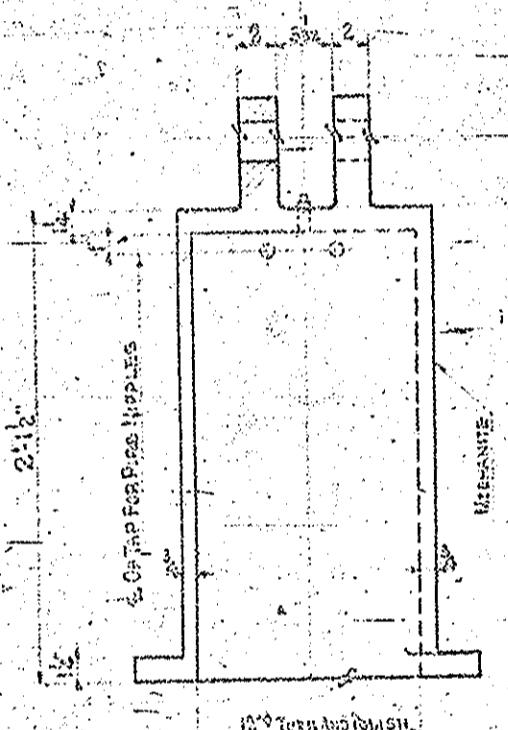
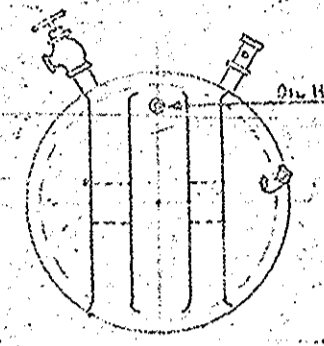
MAKE ONE BEARING B2
 MATERIAL C.S.
 HARDENED

MACHINERY DETAILS
 DRAWING NUMBER 10-1000-1000-1000
 FOR DISCUSS CALL NO. 75
 OPERATOR ASSIGNED NO. 1000-1000
 STATE OF NORTH CAROLINA
 L. G. MORRIS
 CONTRACT ENGINEER

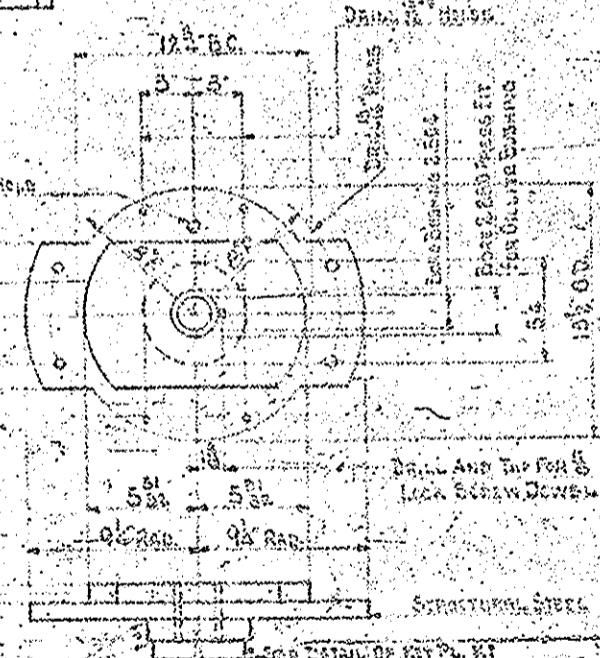


CENTER LOCK MECHANISM
 APPROVED FROM THE ENGINEERING DEPARTMENT
 STATE OF NORTH CAROLINA
 STATE ENGINEER AND PUBLIC WORKS COMMISSION
 PROJECT NO. 100-100-100
 E. G. HOPKINS
 CONSULTING ENGINEER
 1938

ONE CRANK & CHECK VALVE BALL DISC
3/8" BORE POINT - ANGLE VALVE 229
DRILL AND TAP FOR 1/2" O.D. HOLE WITH AIR TIGHT PIPE PLUG
2 3/4" STEEL PIPE HIPPERS 22 LONG

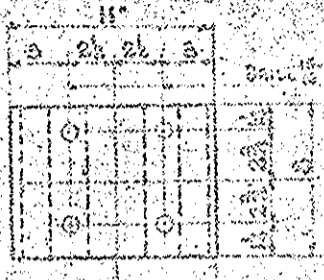


DRILL AND TAP FOR 3/4" LONG HEX. HD. CAP SCREWS, TAP 1.00 DIA.

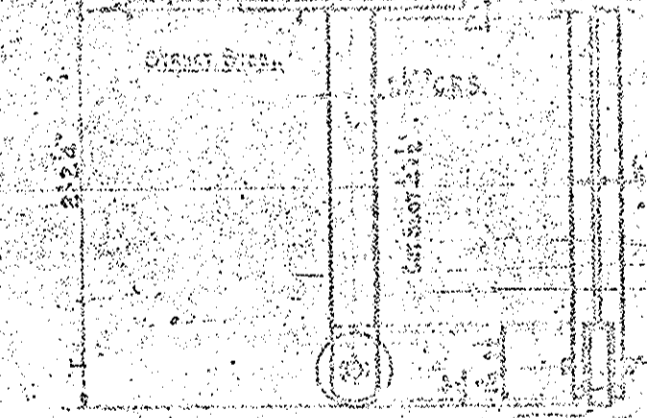


BUFFER CYLINDER AND GUIDE

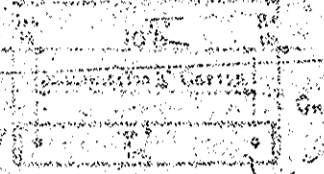
BUFFER - 4 ROD



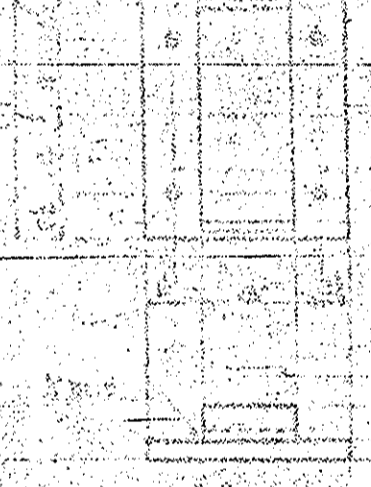
BUFFER HANGER



PISTON



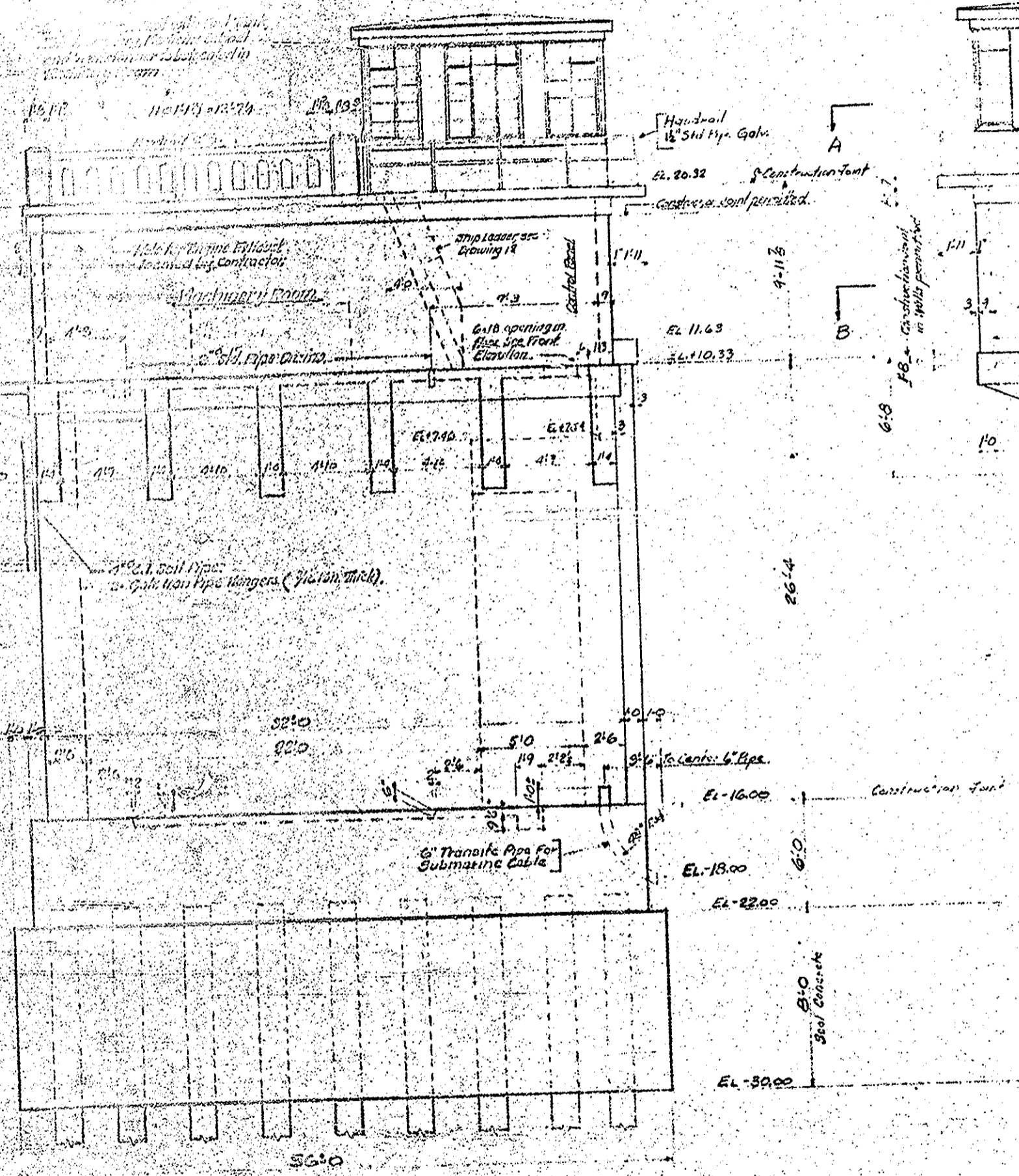
CRANKSHAFT



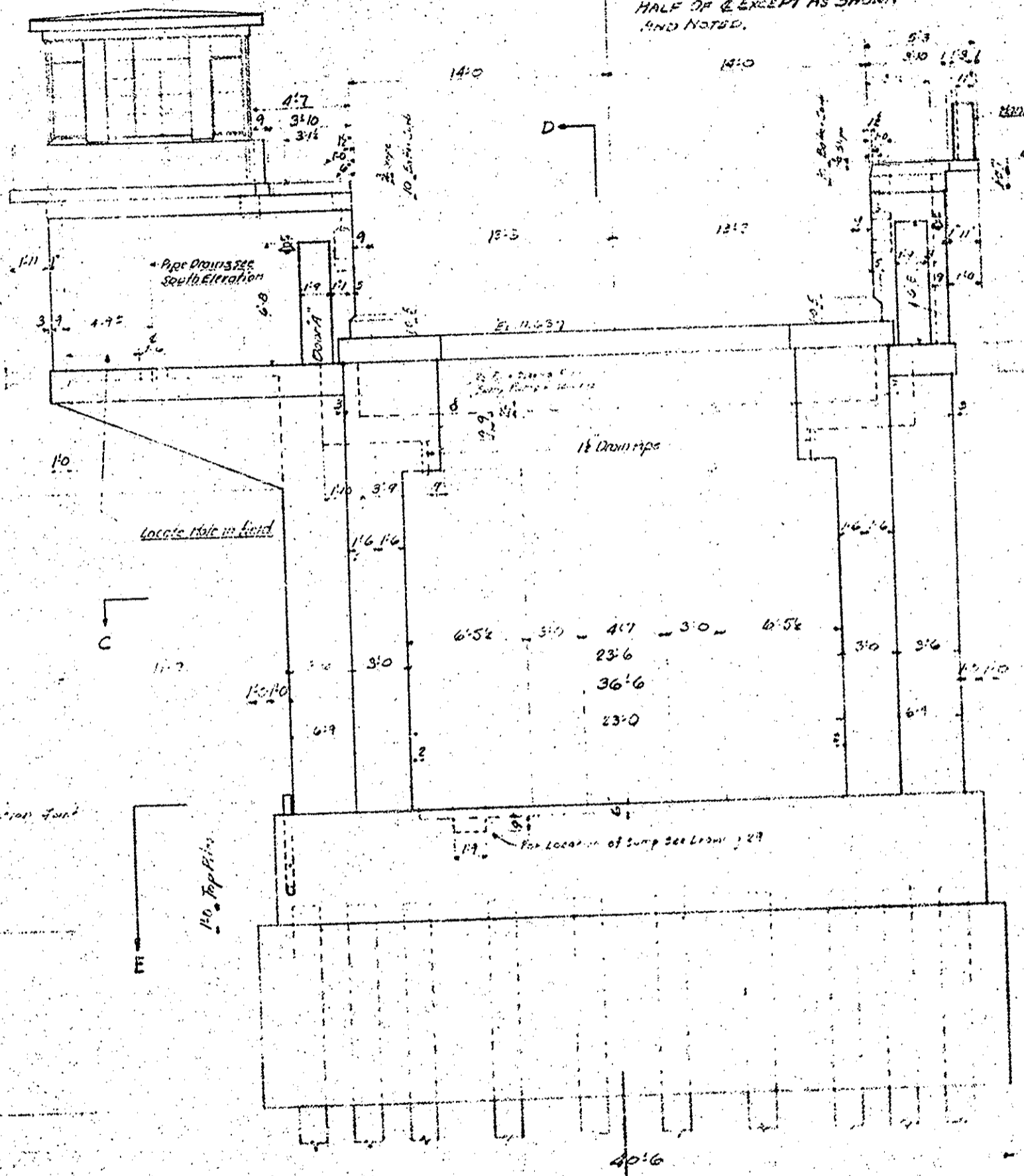
BUFFER CYLINDER AND GUIDE

NOTE: FOR WATER TIGHT AND AIR TIGHTNESS SEE THE DRAWING AND SPECIFICATIONS FOR THE BUFFER IN THIS DRAWING.

STATE OF NORTH CAROLINA
COUNTY OF CHATHAM
I, G. O. MORRIS, Clerk of Superior Court, do hereby certify that the foregoing is a true and correct copy of the original as the same appears in the files of the Superior Court of Chatham County, North Carolina.
G. O. MORRIS, Clerk of Superior Court



SOUTH ELEVATION PIER I



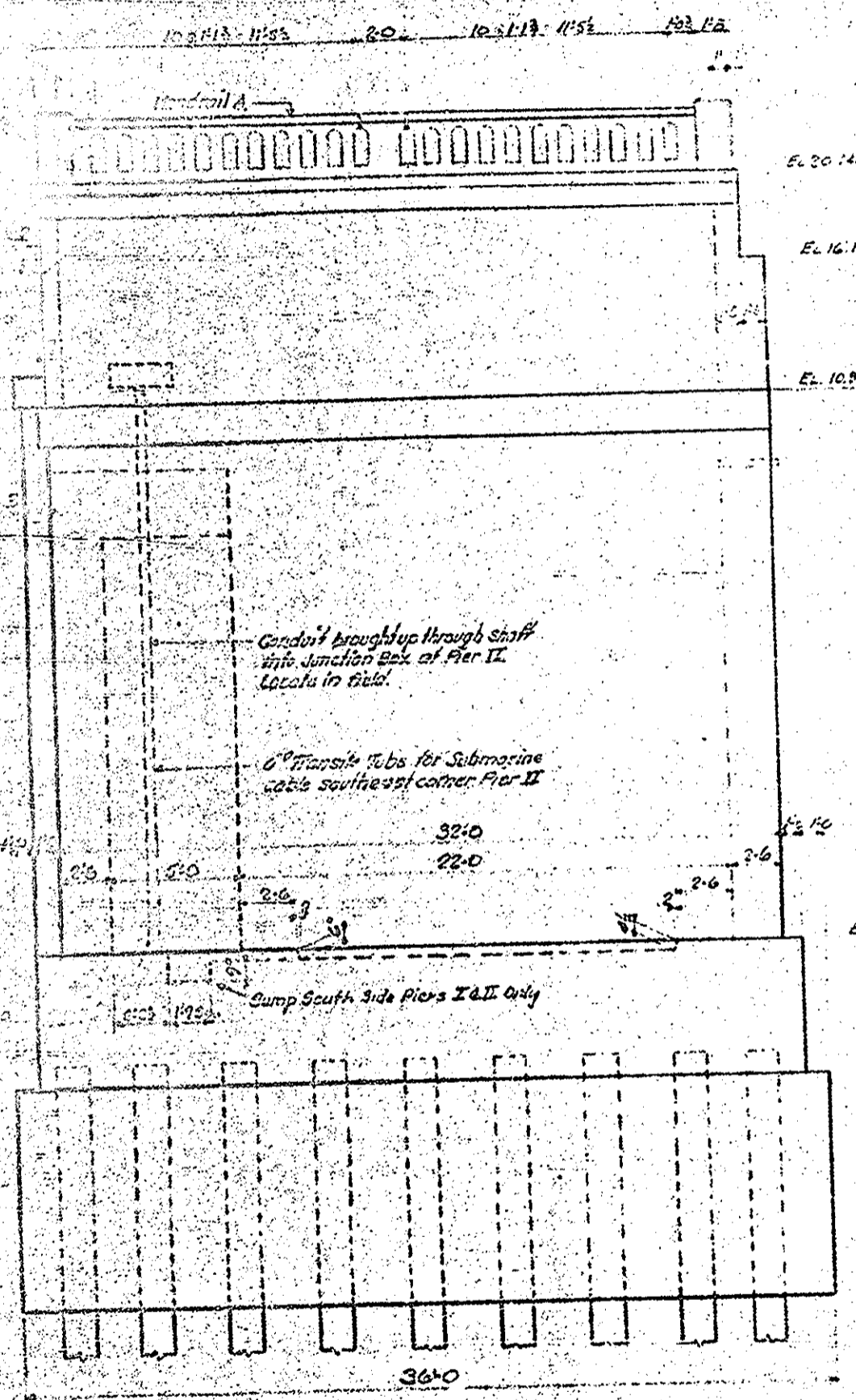
FRONT ELEVATION PIER I AS SHOWN
FRONT ELEVATION PIER II AS SHOWN & NOTED

NOTE -
 PIER II SYMMETRICAL ABOUT THIS
 HALF OF & EXCEPT AS SHOWN
 AND NOTED.

FOR GENERAL NOTES SEE SHEET 2

Revised to show 12 1/2\"/>
 Dec. 2, 1925
 V. B. ALB

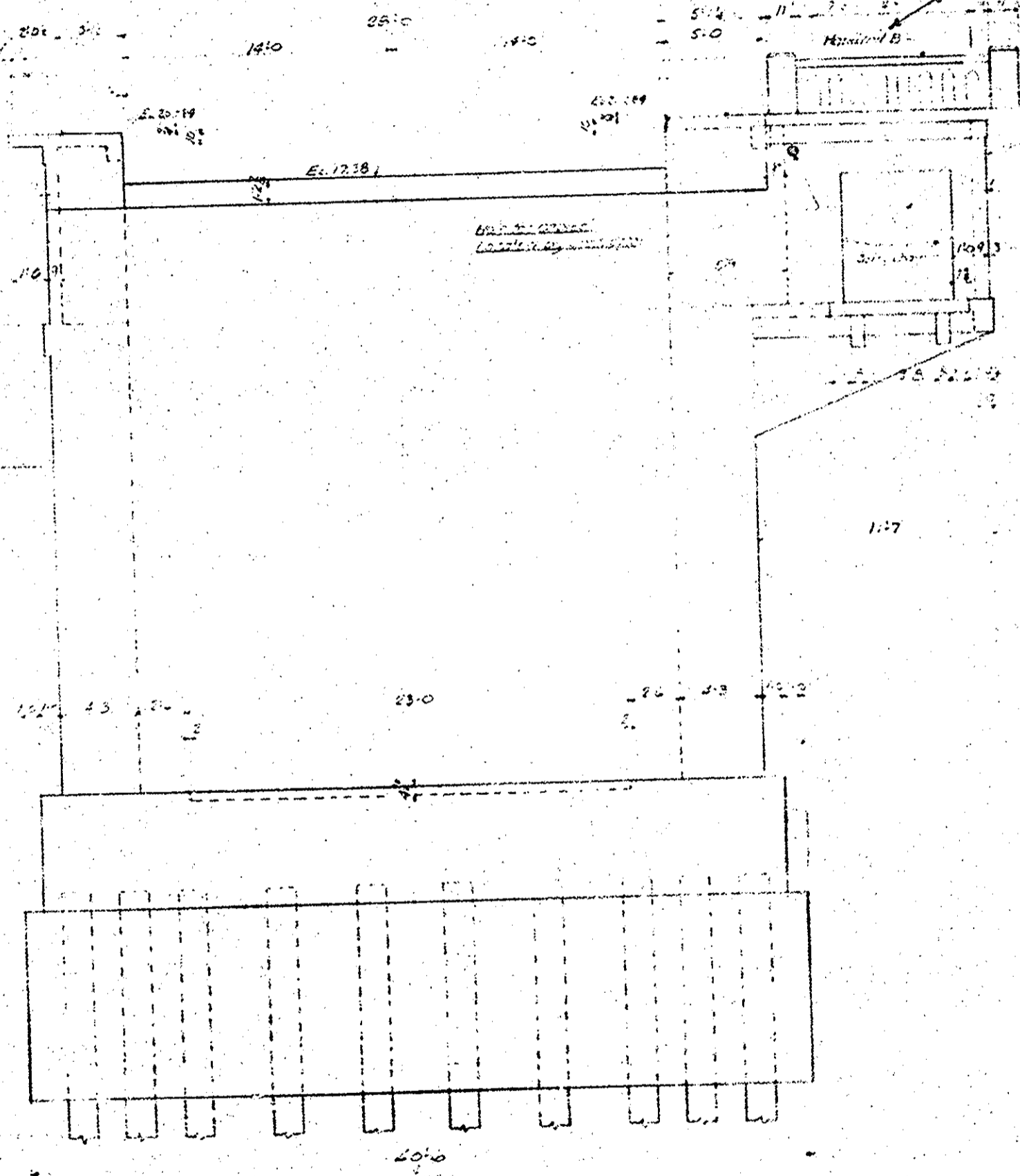
BASCULE PIERS
 NOTES IN THIS DESIGN DRAWING
 SHALL ONLY RELATE TO THE
 STATE OF NORTH CAROLINA
 PROJECT NO. 10000
 E. C. HARRIS
 CONSULTING ENGINEER



NORTH ELEVATION PIER I AS SHOWN & NOTED
NORTH ELEVATION PIER II AS SHOWN & NOTED
SOUTH ELEVATION PIER I AS SHOWN & NOTED

NOTE
PIER II SYMMETRICAL ABOUT
THIS HALF OF E AND AS NOTED.

Note:
See Sheet No 56 for Handrail B



REAR ELEVATION PIER I AS SHOWN
REAR ELEVATION PIER II AS SHOWN & NOTED

*Exterior surfaces of Pier I & II when
 Submittals - 1/20/23 - 5.0 shall be
 treated with Mineral F Parapainting
 per Special Provision*

NOTE
 1. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
 2. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
 3. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
 4. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
 5. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
 6. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
 7. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
 8. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
 9. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
 10. ALL DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.

FOR GENERAL NOTE, SEE SHEET 2

*REVISED TO lengthen Handrail B and under Pier II
 5/10/23 Pier I - BY R.L.H. 2-12-23
 BY R.L.H.*

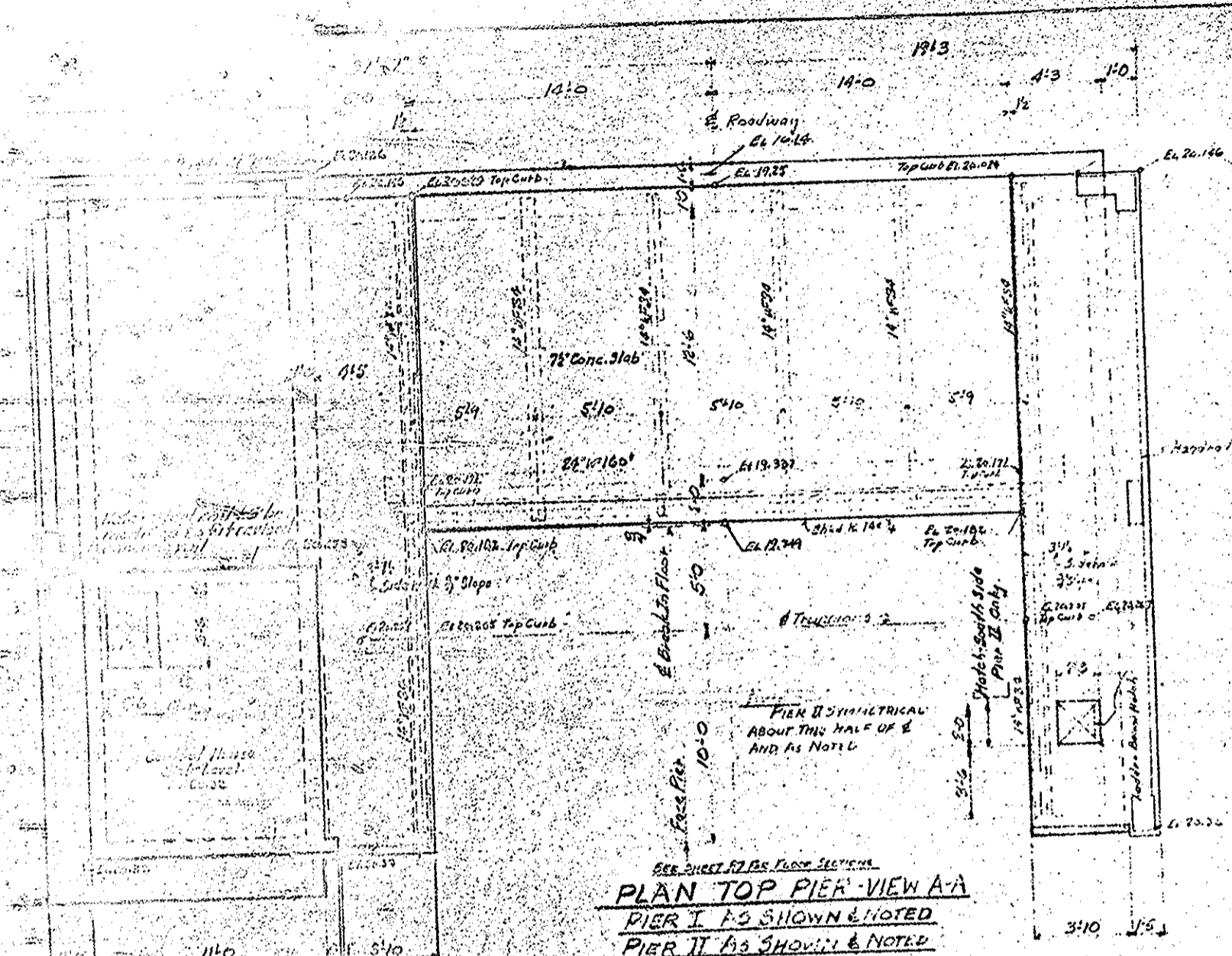
DASCULE PIER

DESIGNED BY: [Name]
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 APPROVED BY: [Name]

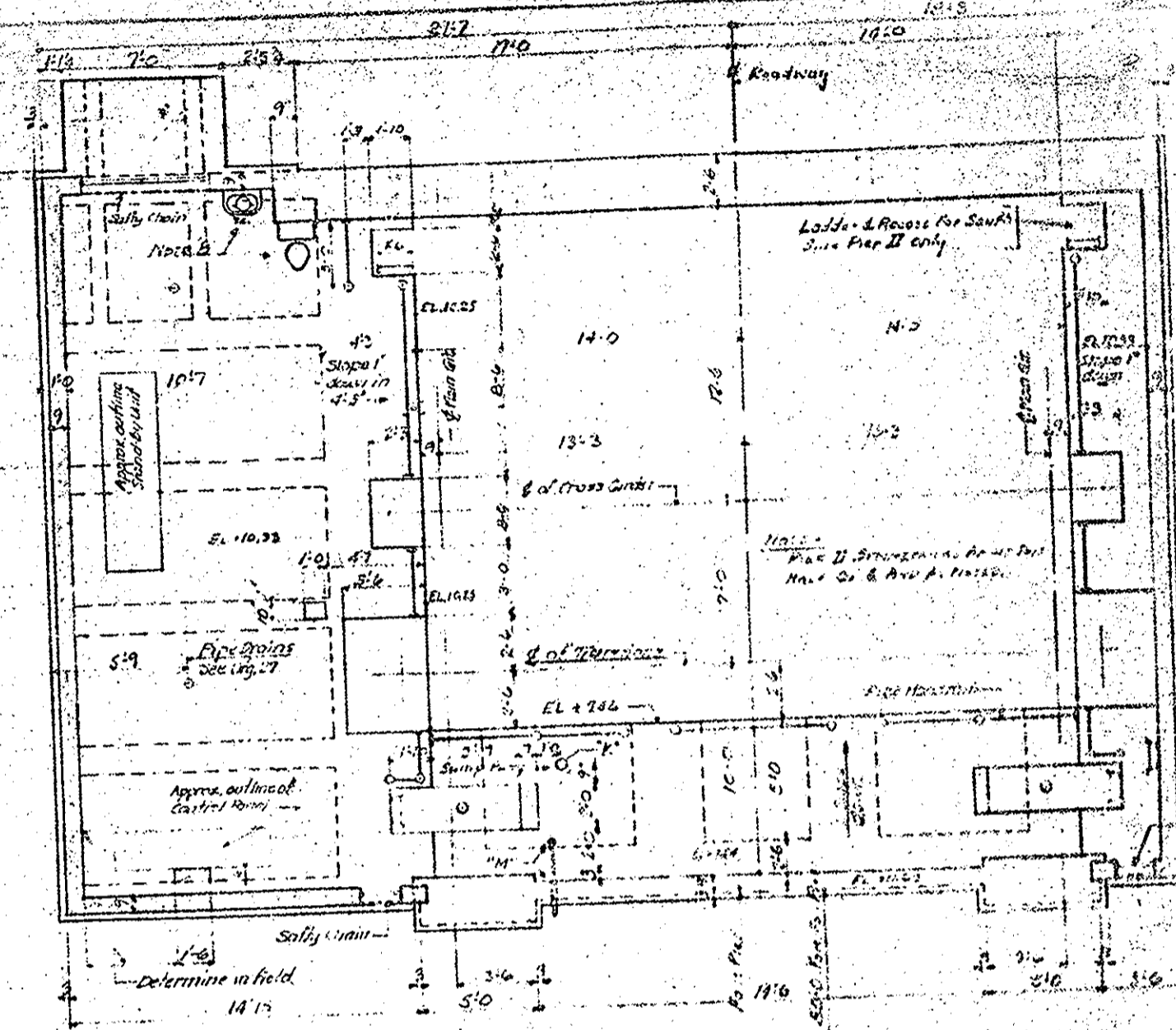
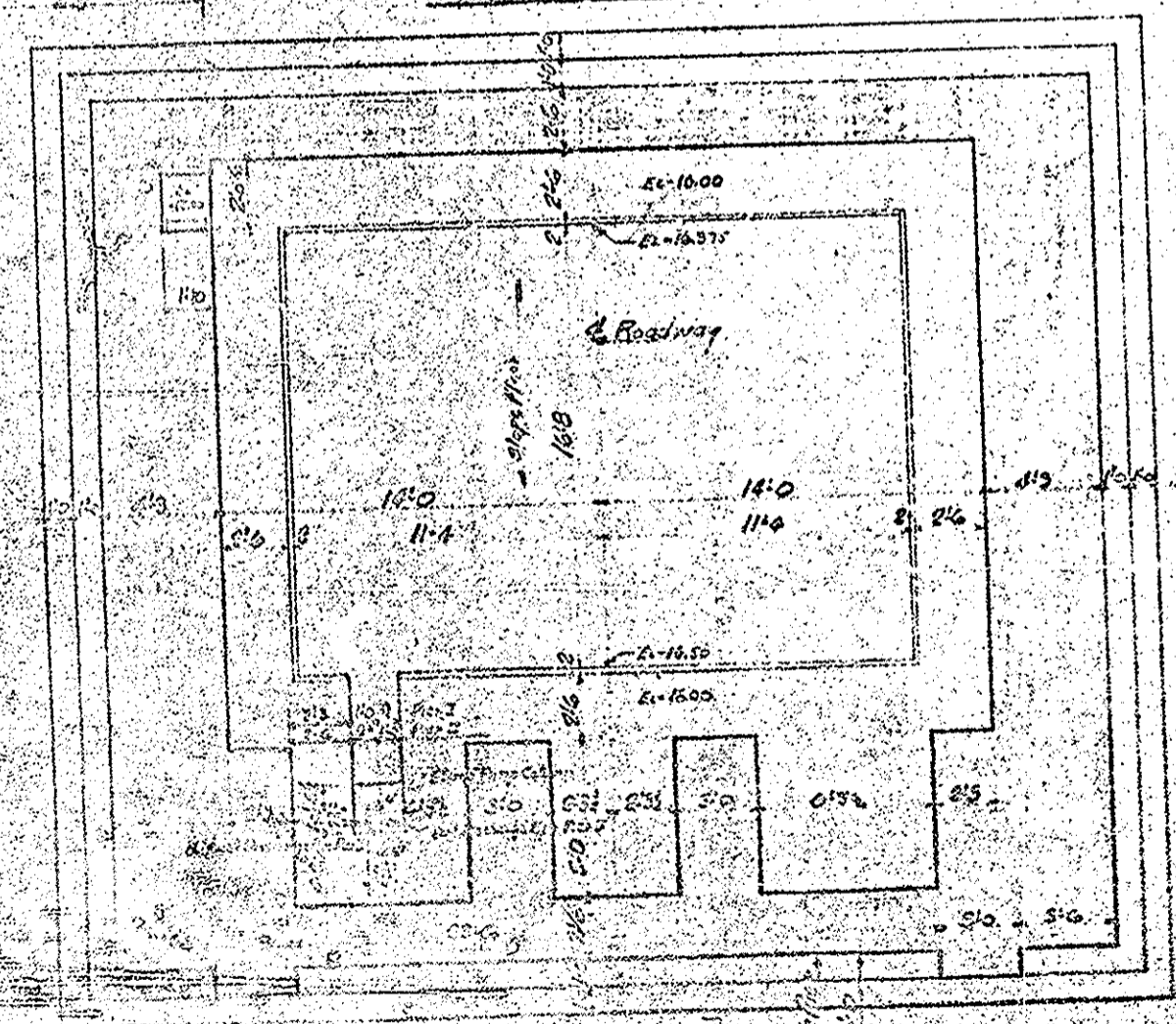
STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

E. O. HOPKINS
 CHIEF ENGINEER

FA 2-55-208



SEE SHEET 27 FOR FLOOR SECTION
PLAN TOP PIER - VIEW A-A
 PIER I AS SHOWN & NOTED
 PIER II AS SHOWN & NOTED



SECTION PIER AT MACHINERY ROOM FLOOR - SECT. B-B
 PIER I AS SHOWN & NOTED
 PIER II AS SHOWN & NOTED

*K - Provide Pipe Steer Through Machinery Platform As Required For Sump Pump Column.
 *M - Provide 2\"/>

Note 2 -
 Tolerances for Crane Columns shall be as follows for water filled or equal. Lateral shall be Green, 2\"/>

For General Notes See Sheet 2

BASCULE PIER SECTION

DESIGNED BY: [Name]

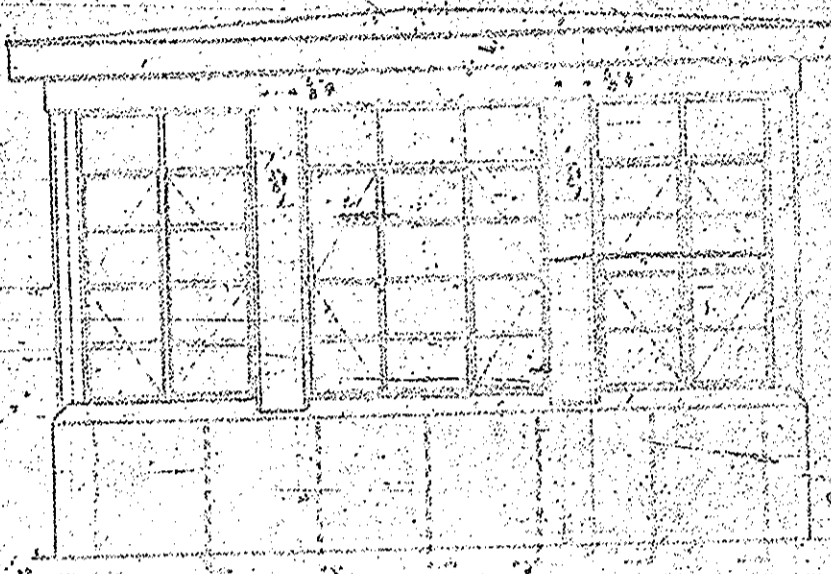
CHECKED BY: [Name]

DATE: [Date]

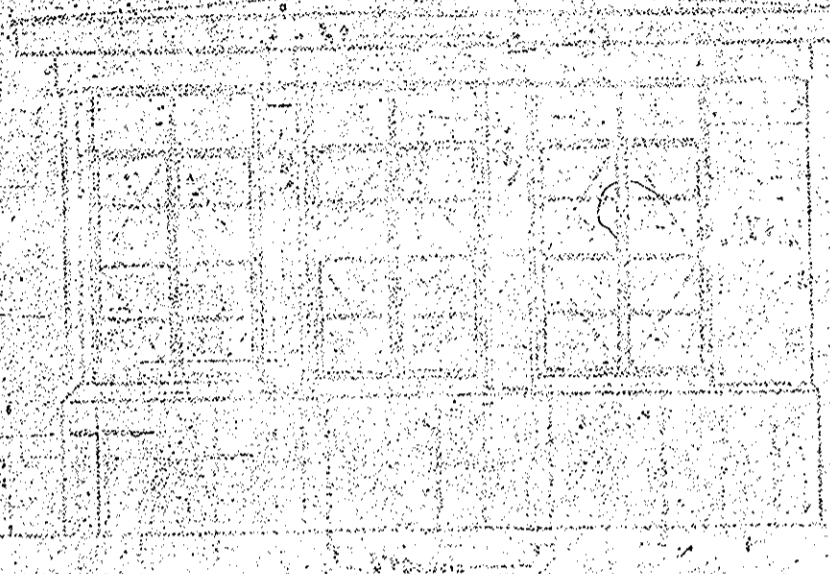
STATE OF ILLINOIS

ENGINEER: [Name]

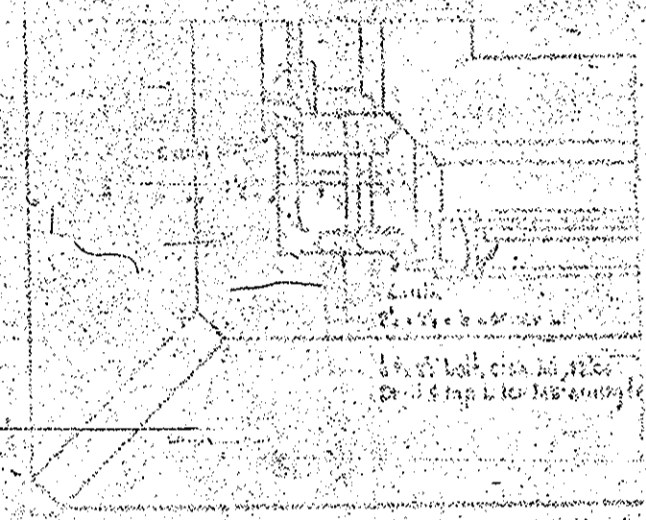
Revised for wind piping area by 2/12/55
 J. E. [Name]



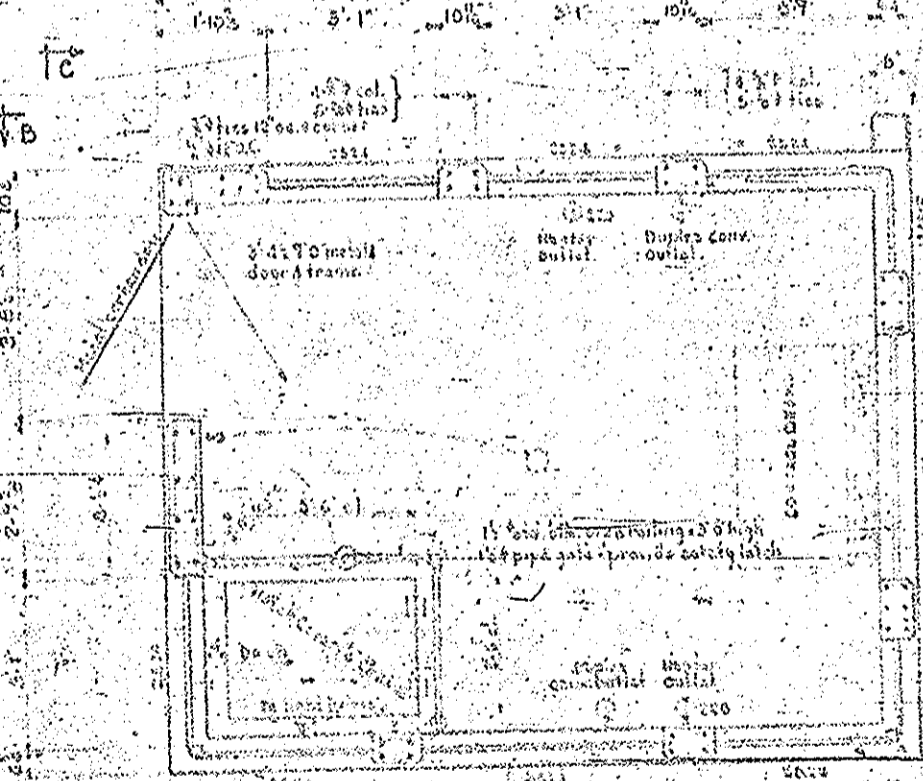
ELEVATION A-A



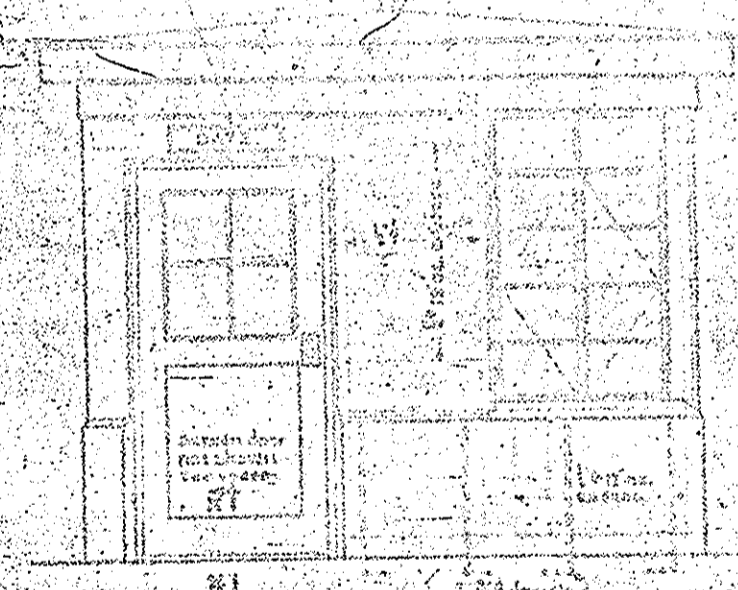
ELEVATION B-B



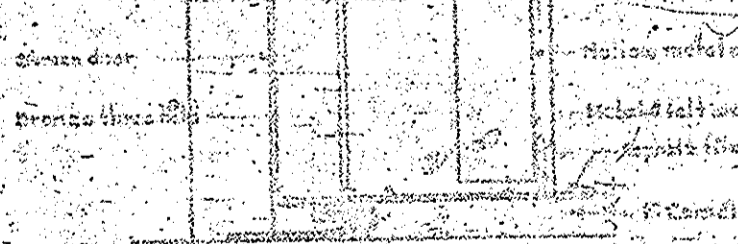
CORNER DETAIL



PLAN



ELEVATION C-C



SECT X-X

TYPICAL WALL SECTION

Notes and specifications for the architectural drawings, including material requirements and construction details.

1. All work shall be in accordance with the specifications of the Department of Public Works, City of New York.

2. The contractor shall be responsible for obtaining all necessary permits and licenses.

3. The contractor shall maintain access to all adjacent properties at all times.

4. The contractor shall be responsible for the safety of all workers and the public.

5. The contractor shall be responsible for the removal and disposal of all debris.

6. The contractor shall be responsible for the protection of all existing utilities.

7. The contractor shall be responsible for the installation of all equipment in accordance with the manufacturer's instructions.

8. The contractor shall be responsible for the testing and commissioning of all equipment.

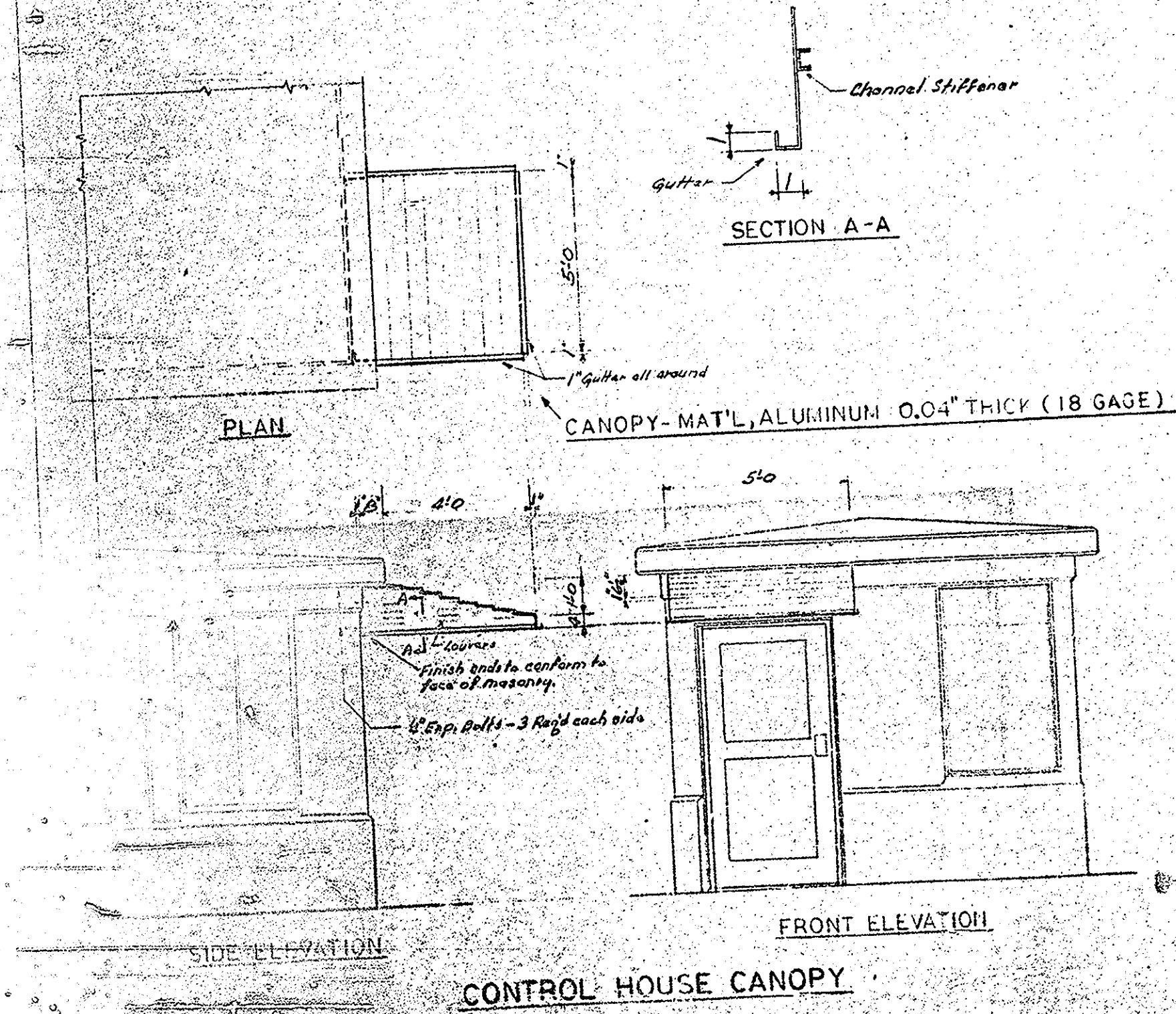
9. The contractor shall be responsible for the maintenance of all equipment during the warranty period.

10. The contractor shall be responsible for the training of all personnel operating the equipment.

DATE	10/15/21
BY	J. J. [Signature]
CHECKED	[Signature]
SCALE	AS SHOWN
PROJECT	REPAIR AND MAINTENANCE OF [Building Name]
CLIENT	[Client Name]
ARCHITECT	[Firm Name]

CASTLE # 92

SHEET 41 OF 94



CANOPY, ALUMINUM, CONSTRUCTION SIMILAR TO THAT MANUFACTURED BY PERMA-SHADE ANNING CO. INC., GREENSBORO, N.C.

PAINT: ONE SHOP COAT DU PONT DULUX ENAMEL OR EQUAL. COLOR - TO BE SPECIFIED BY THE NORTH CAROLINA HIGHWAY COMMISSION.

CONTROL HOUSE CANOPY
 FOR
 NORTH CAROLINA BRIDGES
 PROJECT 8.12005 - CARTERET COUNTY
 PROJECT 8.13535 - NEW HANOVER COUNTY

L. O. HOPKINS
 CONSULTING ENGINEER
 NASHVILLE, TENN.
 14 March, 1950



CASTLE # 92