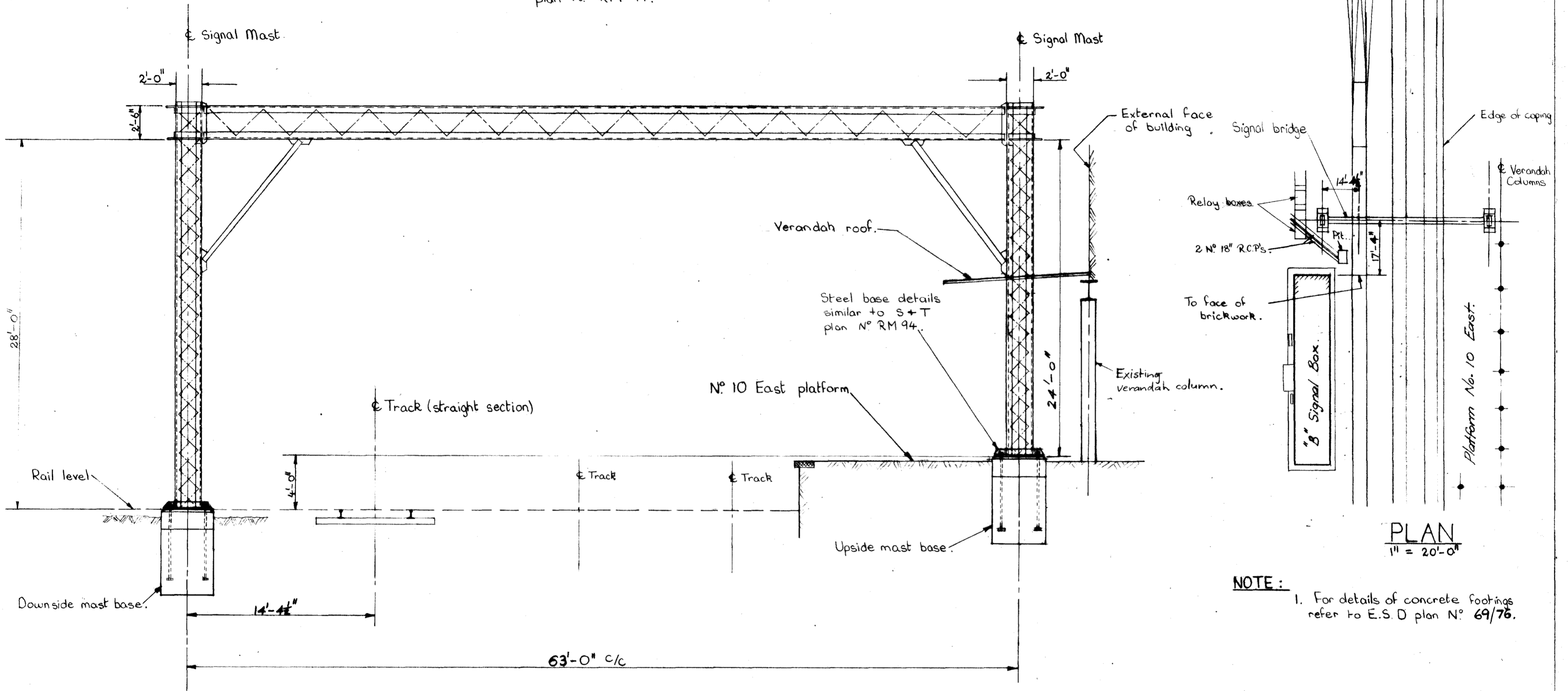


NOTE Signal bridge and masts *ex stock* Spotswood. Bridge and masts fabricated from structure previously located at 41+75 on Flinders St. - Spencer St. viaduct. For details of structure refer to Signal + Tel. Eng. plan N° RM 94.



ELEVATION
 1/4" = 1'-0"

PLAN
 1" = 20'-0"

NOTE:
 1. For details of concrete footings refer to E.S.D plan N° 69/76.

14/1/76

O/H

V. R.
FLINDERS ST. - RICHMOND
SIGNAL BRIDGE DOWN END "B" BOX.
STEELWORK DETAILS
S. B. D. 275/76
 Chief Civil Engineer

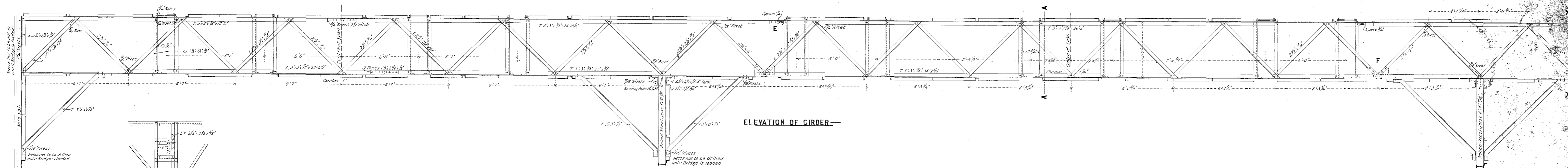
Revision	Date	Amendment	By	Checked	Drawn	Corr. No.	DRIVER N°	PLAN N°
							2-32-241	14/1/76

VICTORIAN RAILWAYS
 FLINDERS STREET NEW STATION
 SIGNAL BRIDGES AT WEST ENTRANCE—

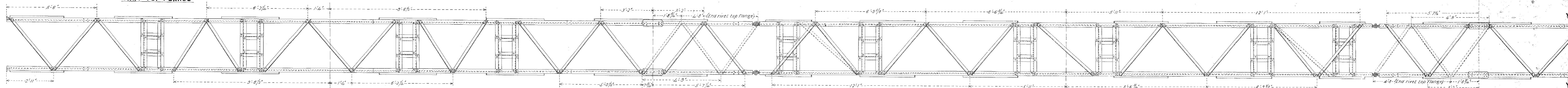
— BRIDGE N^o 2 —

CONTRACT N^o 10285.
 N^o 2.

— NOTE — Wind Bracing shown dotted applies to Top Flange —

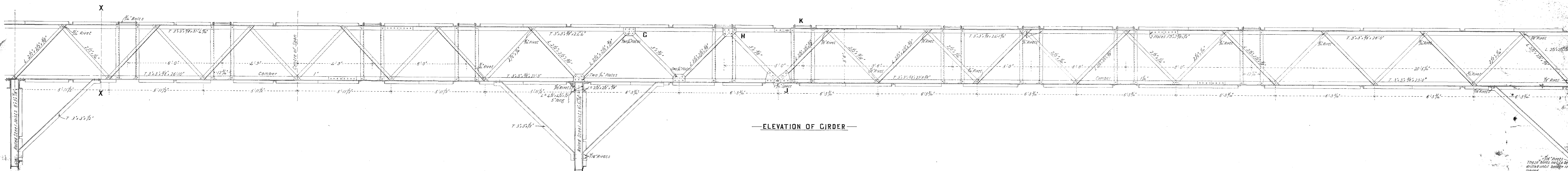


— PART TOP FLANGE —

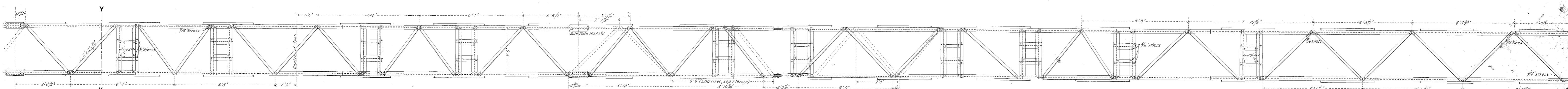


— PLAN OF BOTTOM FLANGE LOOKING UP —

Scale 1/4" = 1'-0"

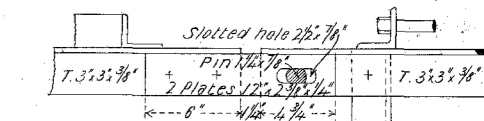
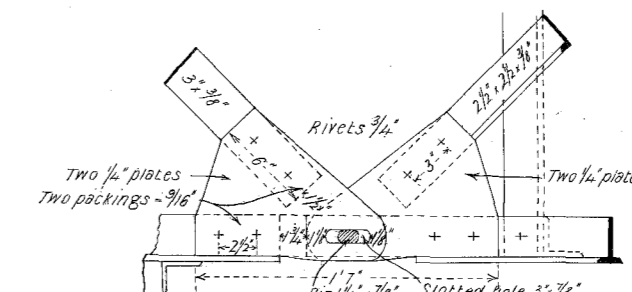
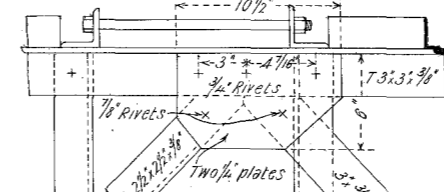
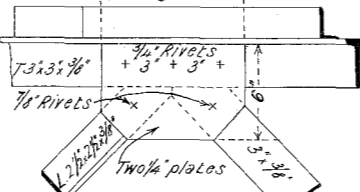
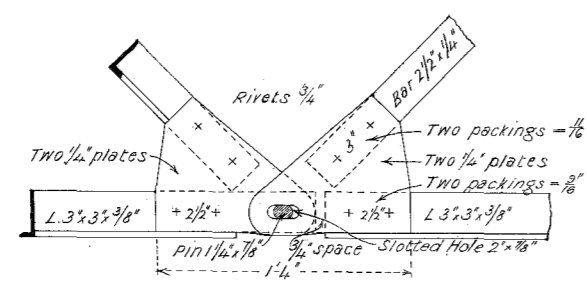
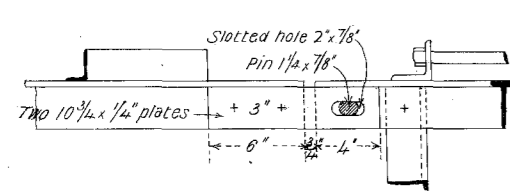


— ELEVATION OF GIRDER —



— PLAN OF BOTTOM FLANGE LOOKING UP —

Scale 1/4" = 1'-0"

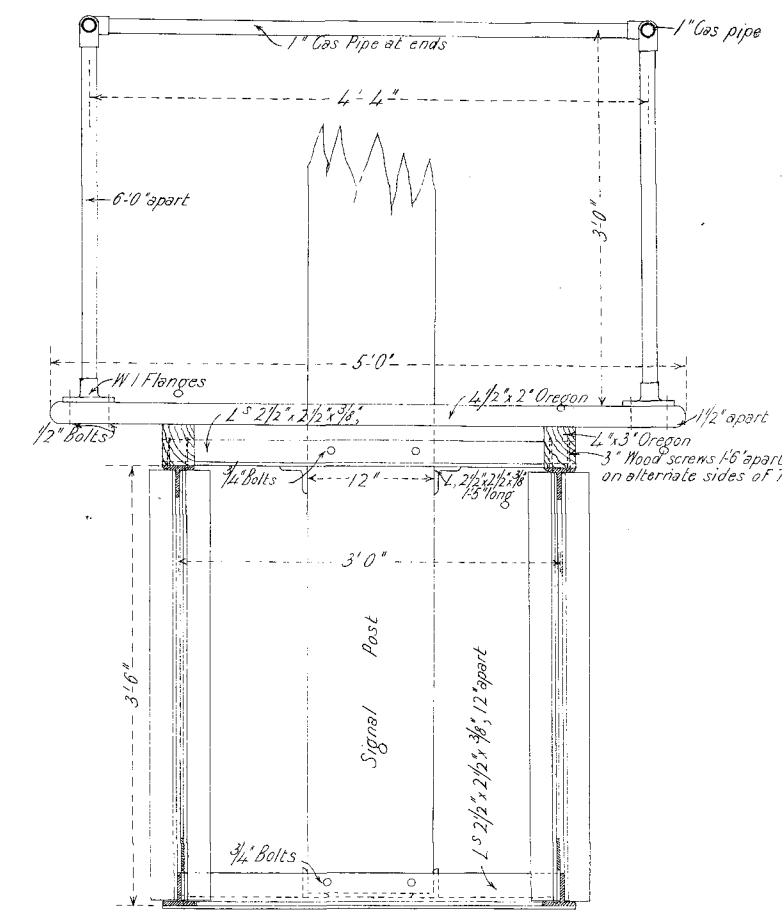


Scale 1/4" = 1'-0"

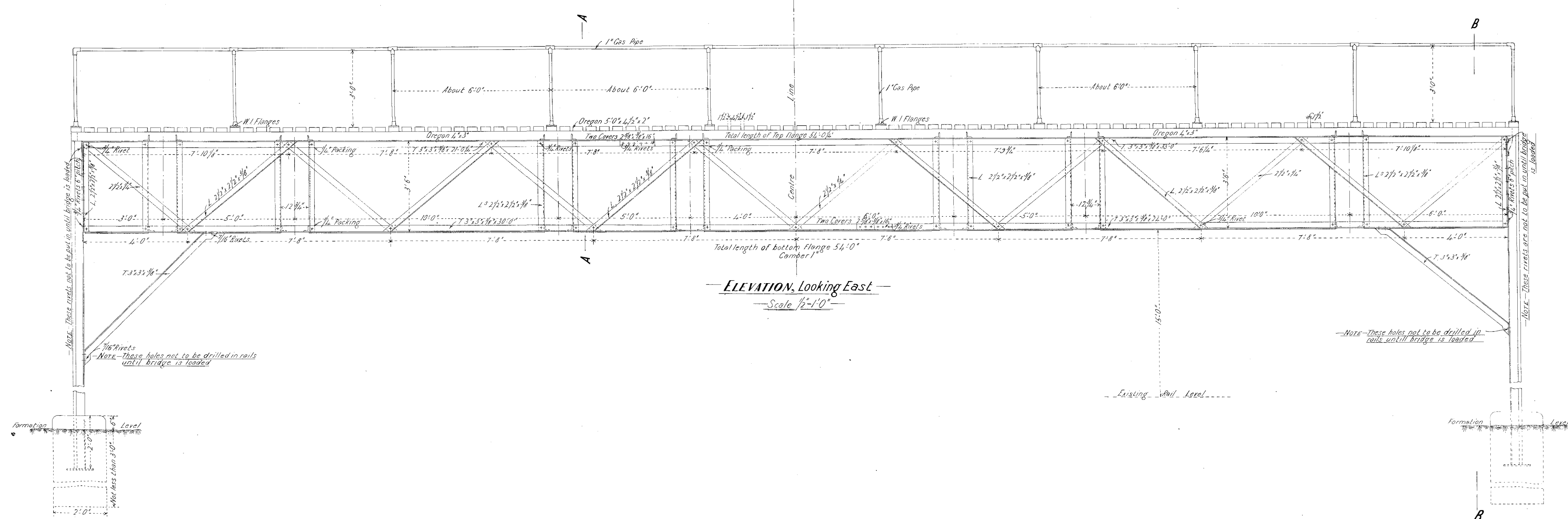
Scale 1/4" = 1'-0"

VICTORIAN RAILWAYS
FLINDERS STREET NEW STATION
SIGNAL BRIDGE N^o 3 AT WEST ENTRANCE

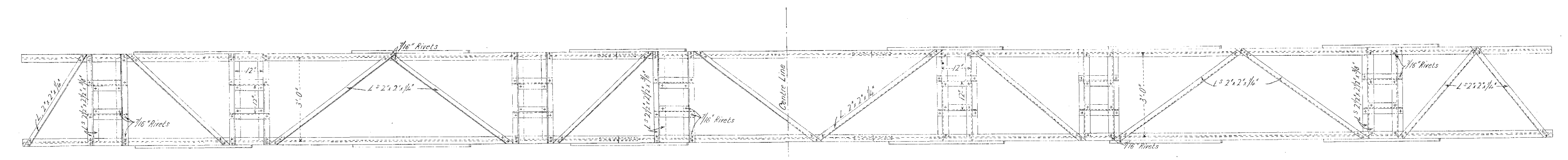
CONTRACT N^o 11819
 N^o



SECTION A.A.
 Scale 1 1/2"=1'-0"

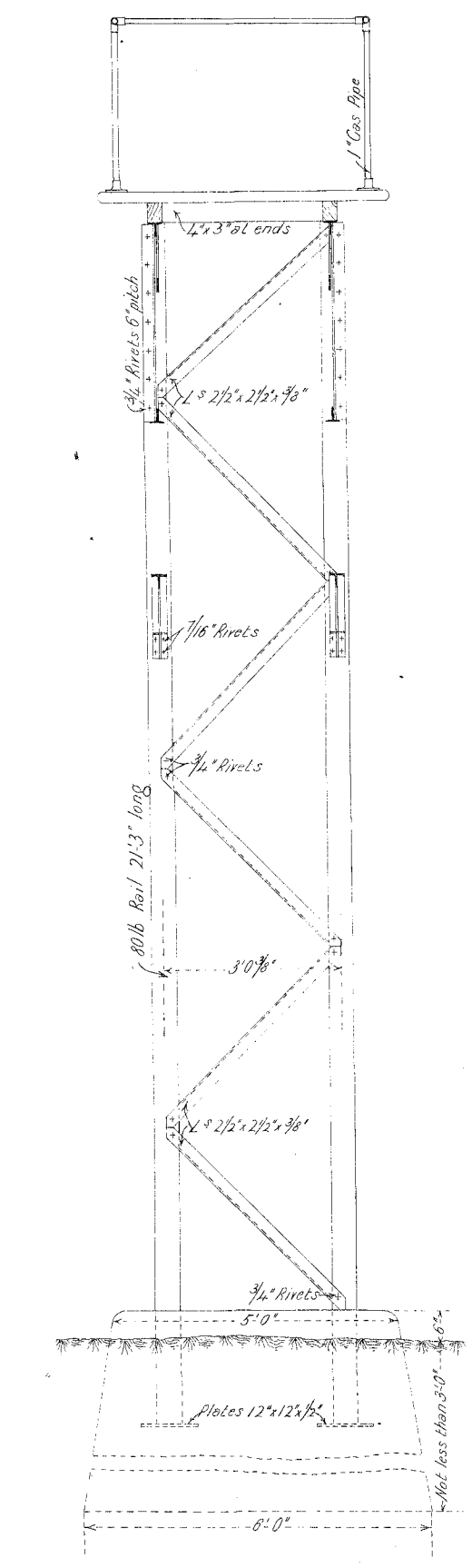


ELEVATION, Looking East
 Scale 1/2"=1'-0"

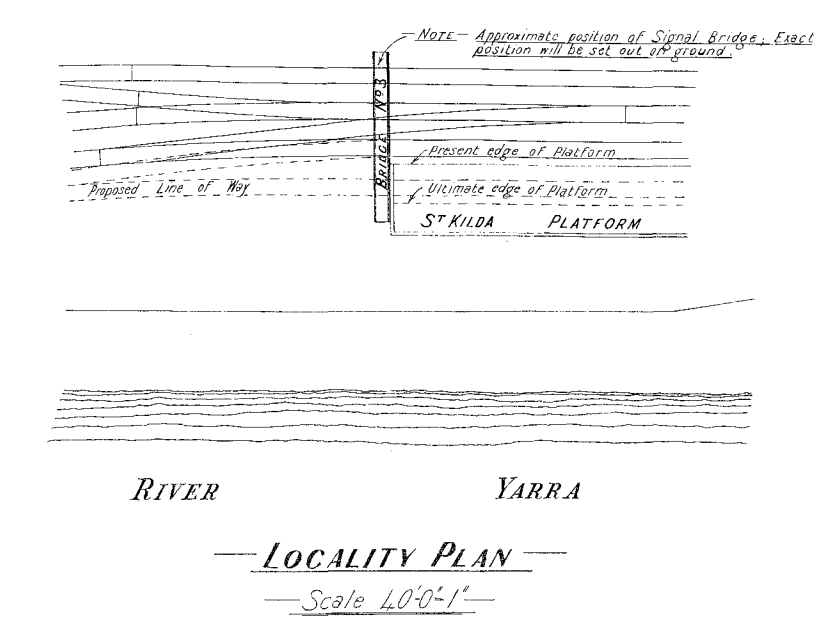


HALF PLAN OF TOP FLANGE
 Scale 1/2"=1'-0"

HALF PLAN OF BOTTOM FLANGE LOOKING UP
 Scale 1/2"=1'-0"



SECTION B.B.
 Scale 1/2"=1'-0"



LOCALITY PLAN
 Scale 10"=1'-0"

V. R.

311/17

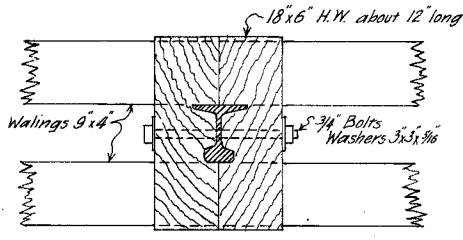
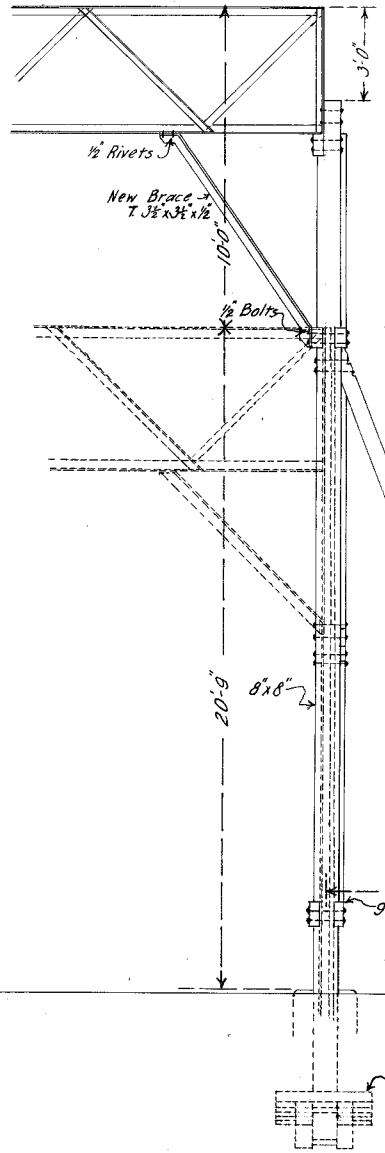
ELECTRIFICATION OF MELBOURNE SUBURBAN RLYS.

SPENCER ST. TO NORTH MELBOURNE

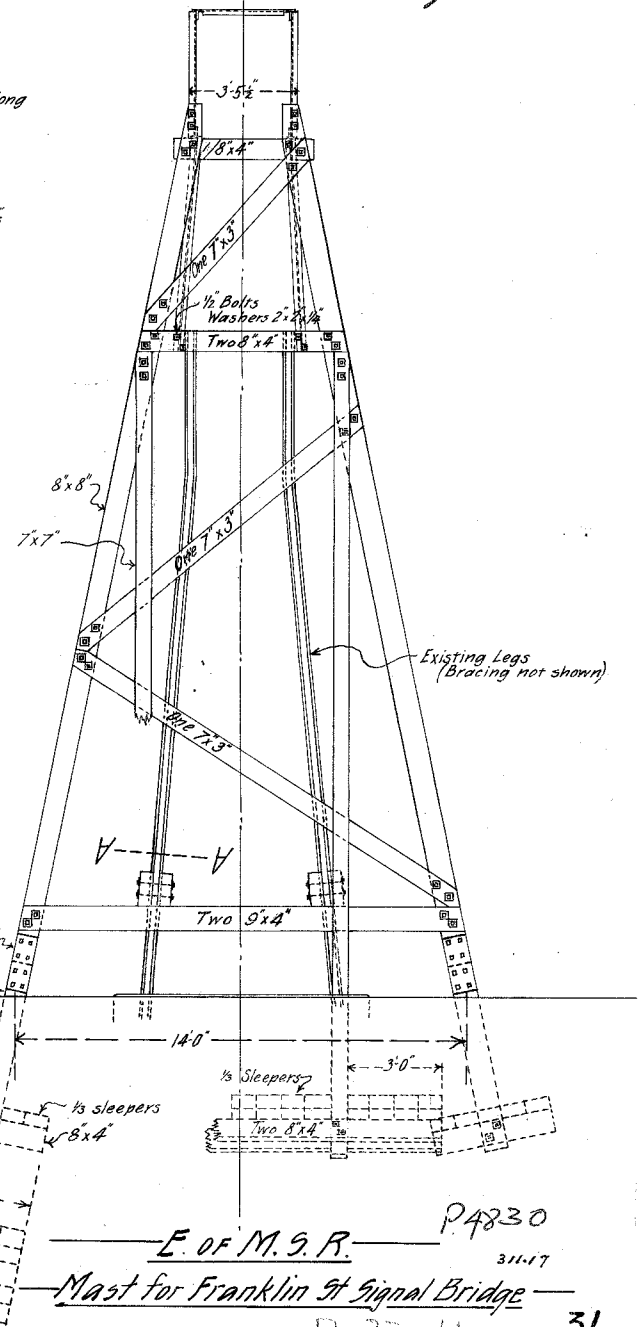
Mast for Franklin St. Signal Bridge at B 88+87

Scale $\frac{1}{4}'' = 1'-0''$

9/12/2/17



NOTE: All Bolts $\frac{3}{4}$ " Dia. and all Washers $3 \times 3 \times \frac{5}{16}$ unless shown otherwise (at East End only)



D/H

311

17

E. OF M. S. R.

P. 4830

311.17

Mast for Franklin St Signal Bridge

D. 32.11

31.

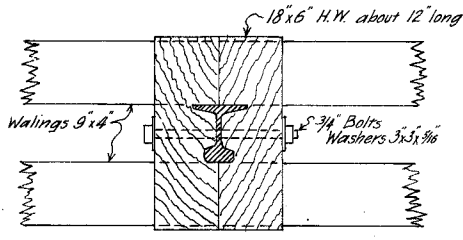
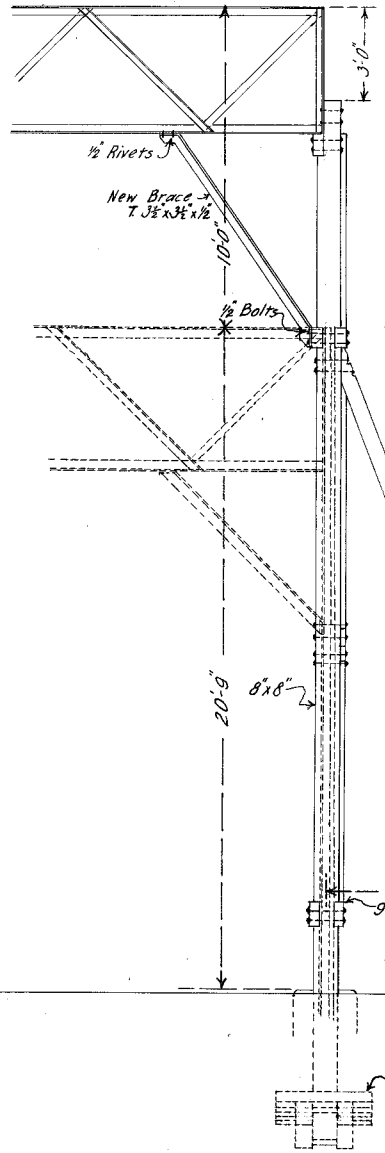
ELECTRIFICATION OF MELBOURNE SUBURBAN RLYS.

SPENCER ST. TO NORTH MELBOURNE

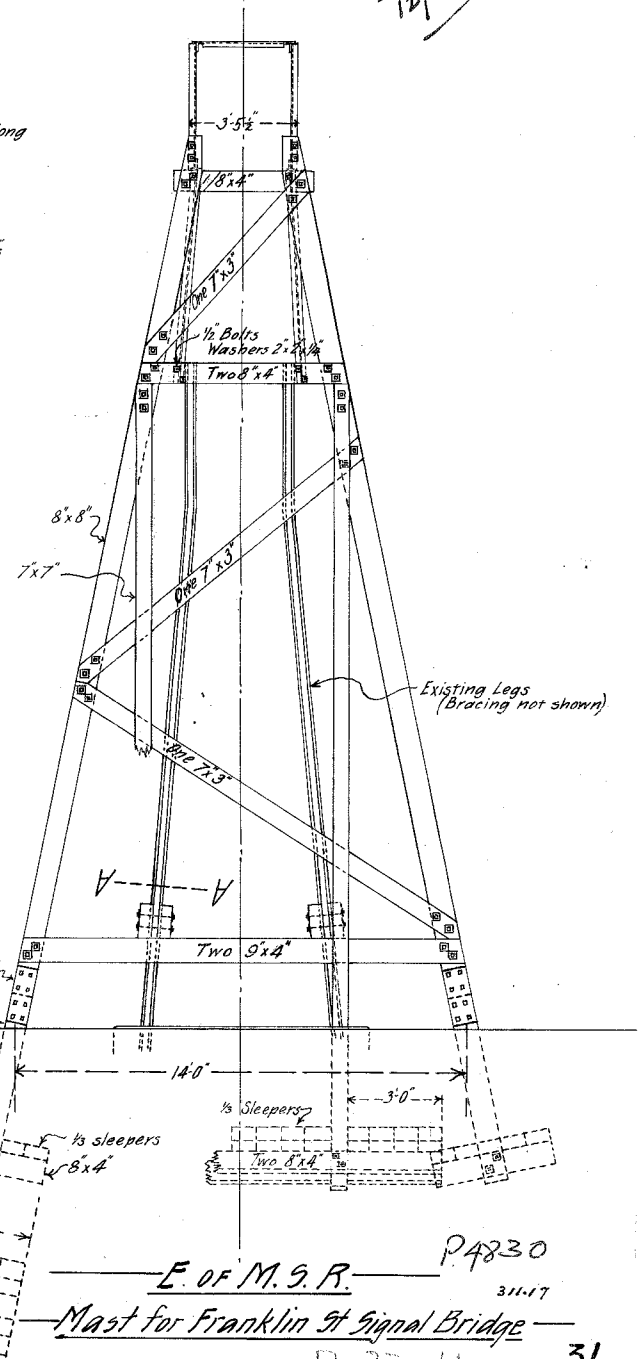
Mast for Franklin St. Signal Bridge at B 88+87

Scale 1/4" = 1'-0"

9/12/17



NOTE: All Bolts 3/4" Dia. and all Washers 3 x 3 x 3/16 unless shown otherwise (at East End only)



D/H

311

17

E. OF M. G. R.

P. 4830

311.17

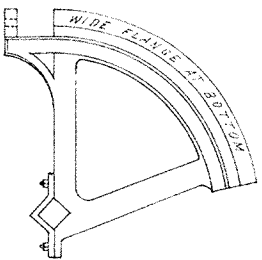
Mast for Franklin St Signal Bridge

D. 32.11

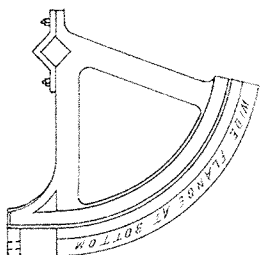
31.

V R

— GATE SECTORS —



LEFT HAND



RIGHT HAND

SIZES OF SECTORS				SIZES OF PULLEYS	
№	DIAM. DN CHAIN LINE	№	DIAM. DN CHAIN LINE	№	DIAM. DN CHAIN LINE
1	2' " 8 $\frac{1}{2}$ "	8	1' " 4 $\frac{1}{2}$ "	1	3' " 1 $\frac{1}{2}$ "
2	2' " 0"	9	2' " 10 $\frac{1}{4}$ "	2	2' " 2 $\frac{1}{2}$ "
3	1' " 10 $\frac{1}{4}$ "	10	2' " 2"	3	1' " 10 $\frac{1}{4}$ "
4	1' " 8"	11	3' " 2 $\frac{1}{2}$ "	4	1' " 7 $\frac{1}{8}$ "
5	1' " 6 $\frac{3}{4}$ "	12	2' " 4 $\frac{1}{4}$ "	5	1' " 3 $\frac{1}{2}$ "
6	1' " 0 $\frac{1}{2}$ "	13	0' " 10 $\frac{1}{2}$ "	6	1' " 1 $\frac{1}{2}$ "
7	1' " 3"			7	1' " 0 $\frac{1}{2}$ "

Whitcomb

SIGNAL ENGINEER

1.8.92

553'92

4

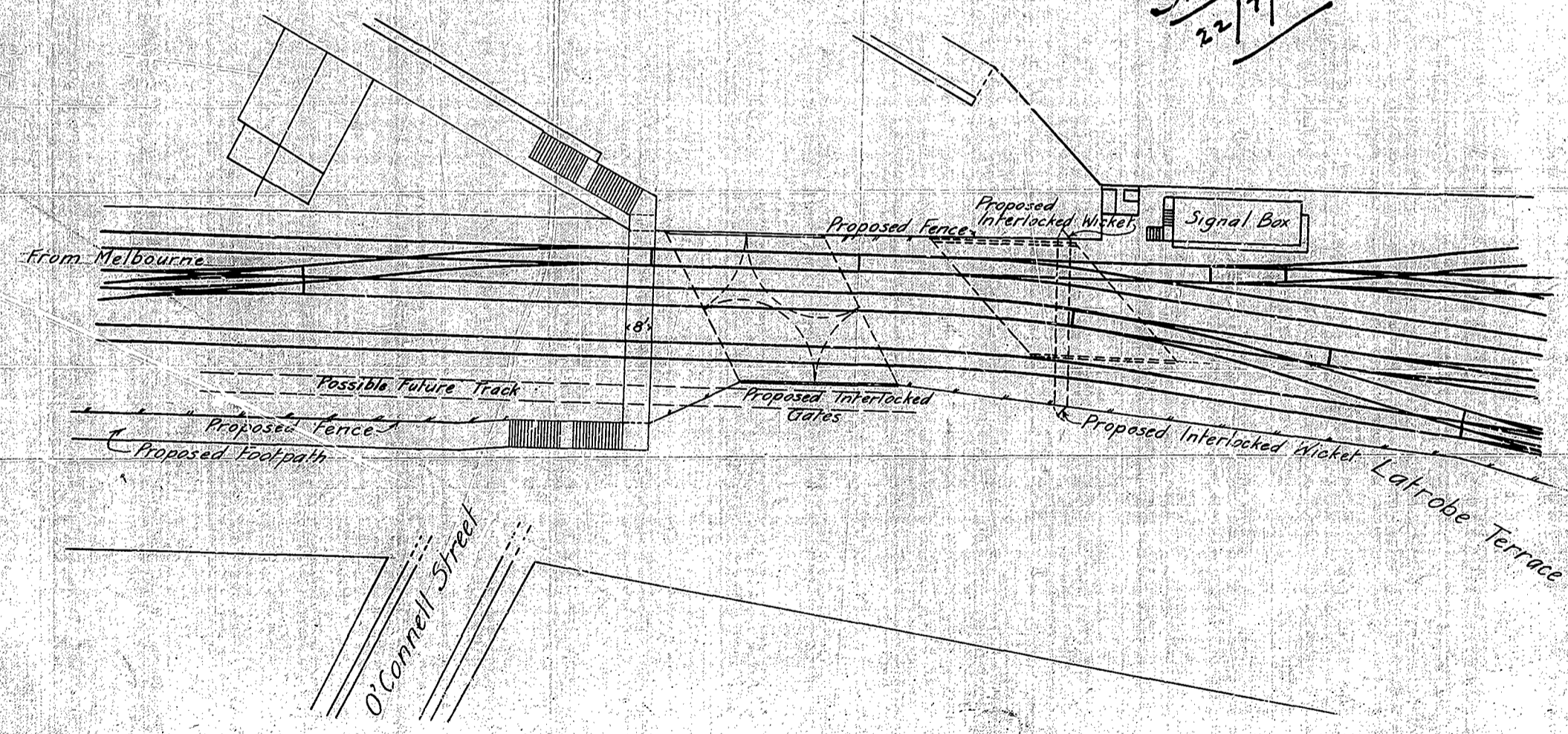
— V.R. —

— GEELONG —

— Proposed Combined Foot and Signal Bridge at O'Connell St. —

— Scale 40'-1" —

Sh. 22/7/15



B-10-14

1805-15

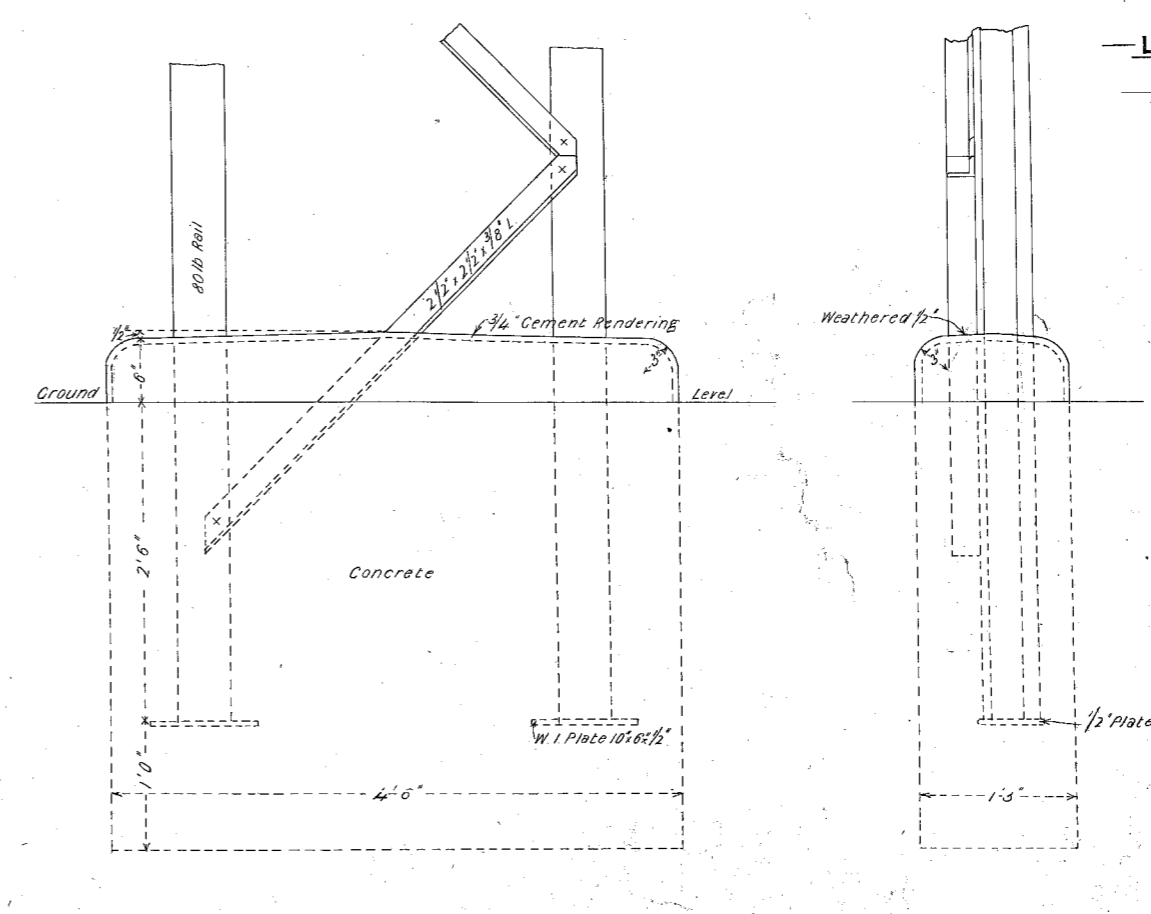
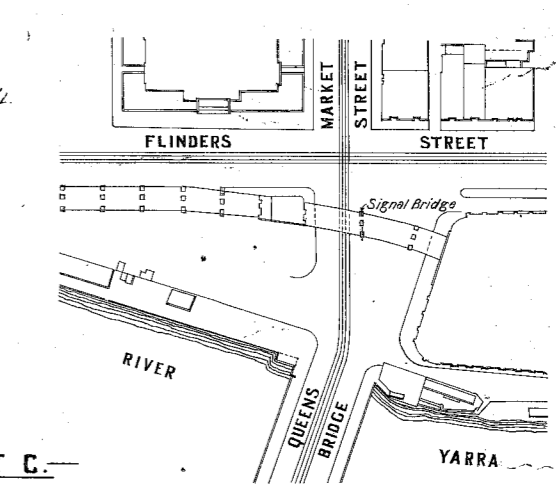
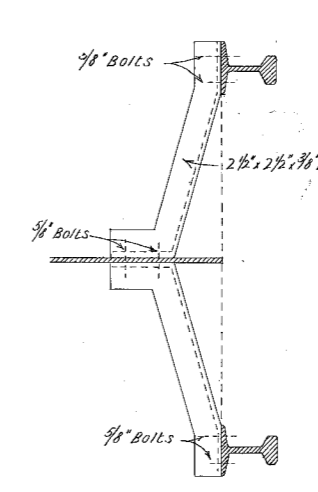
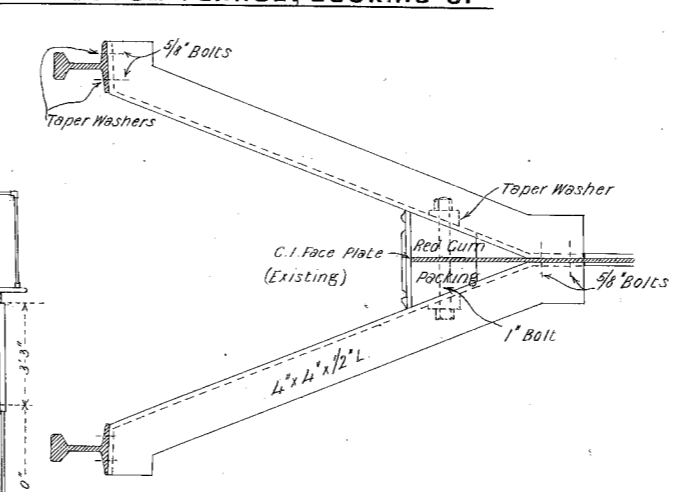
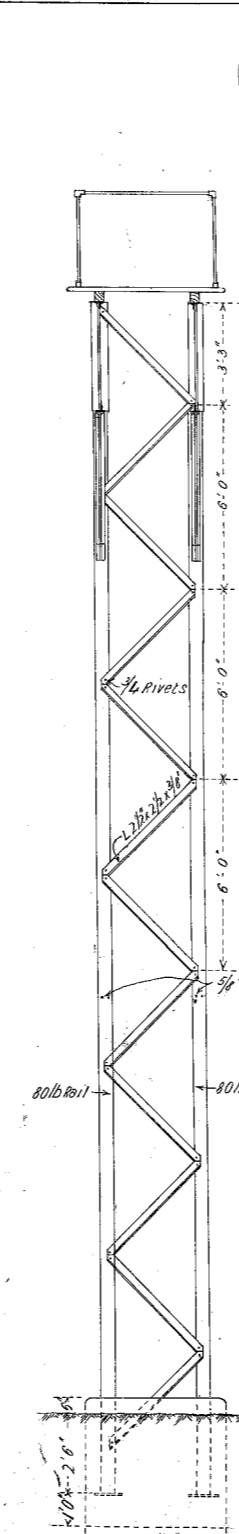
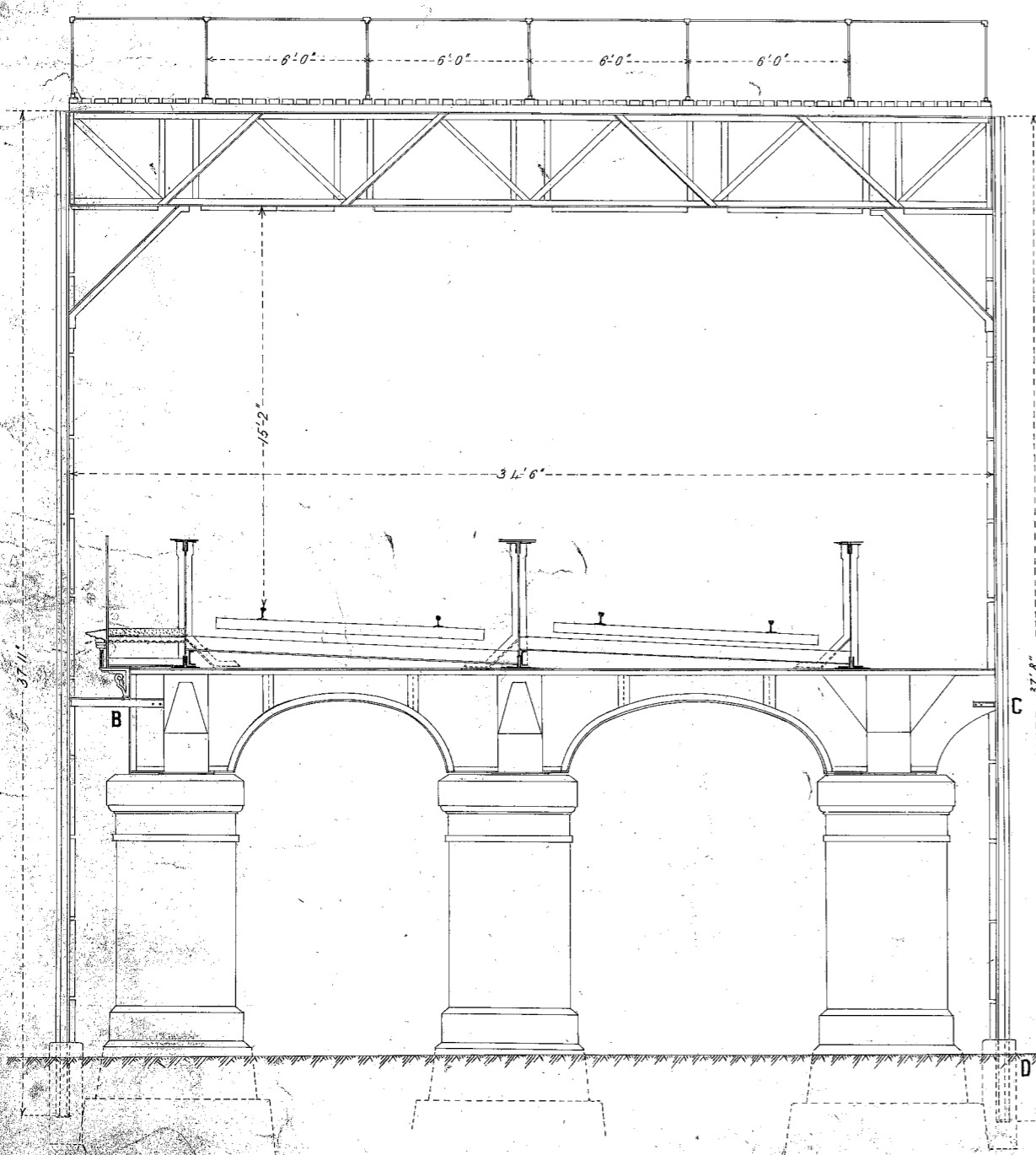
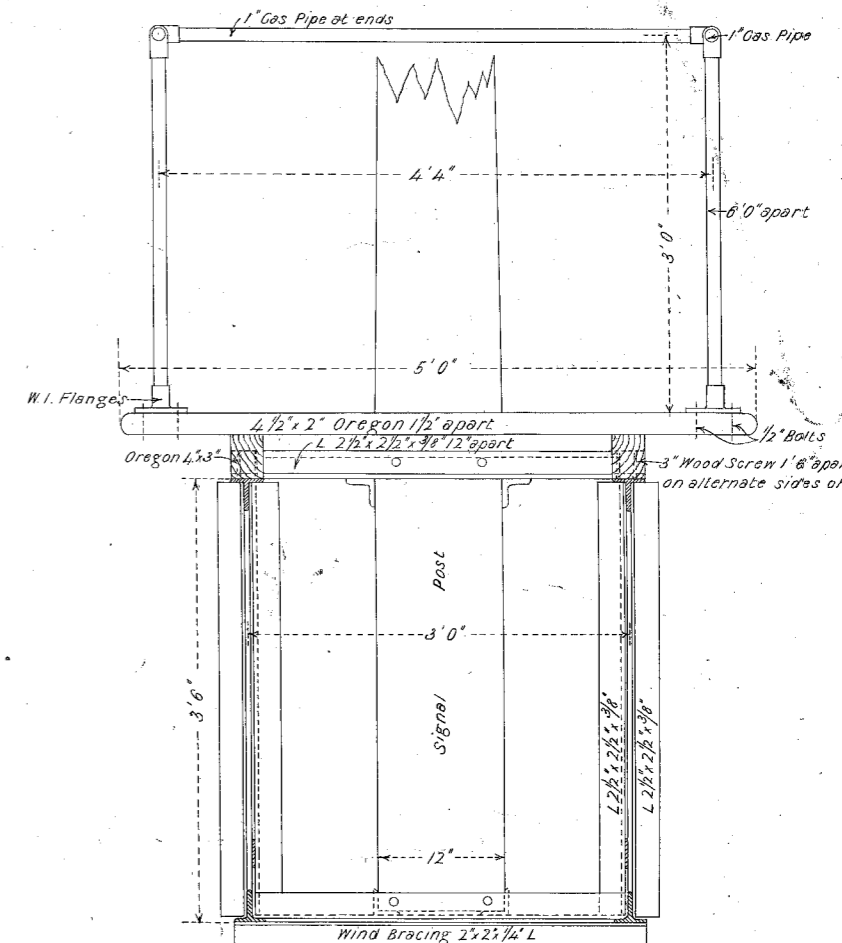
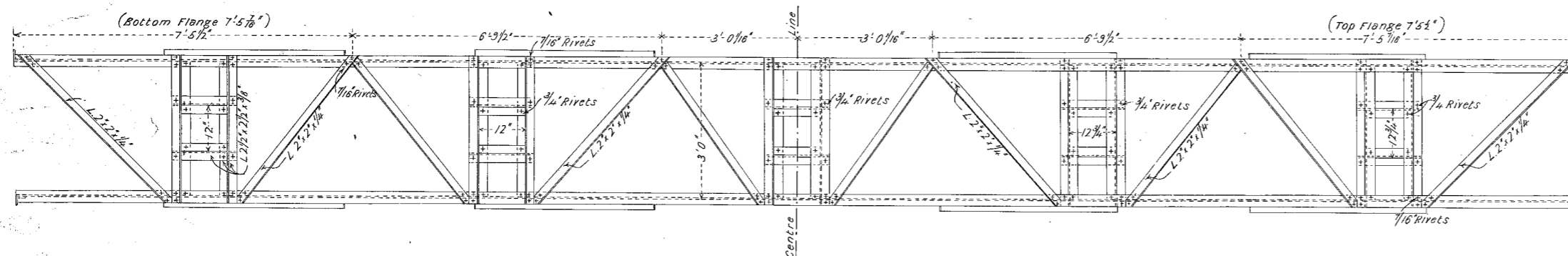
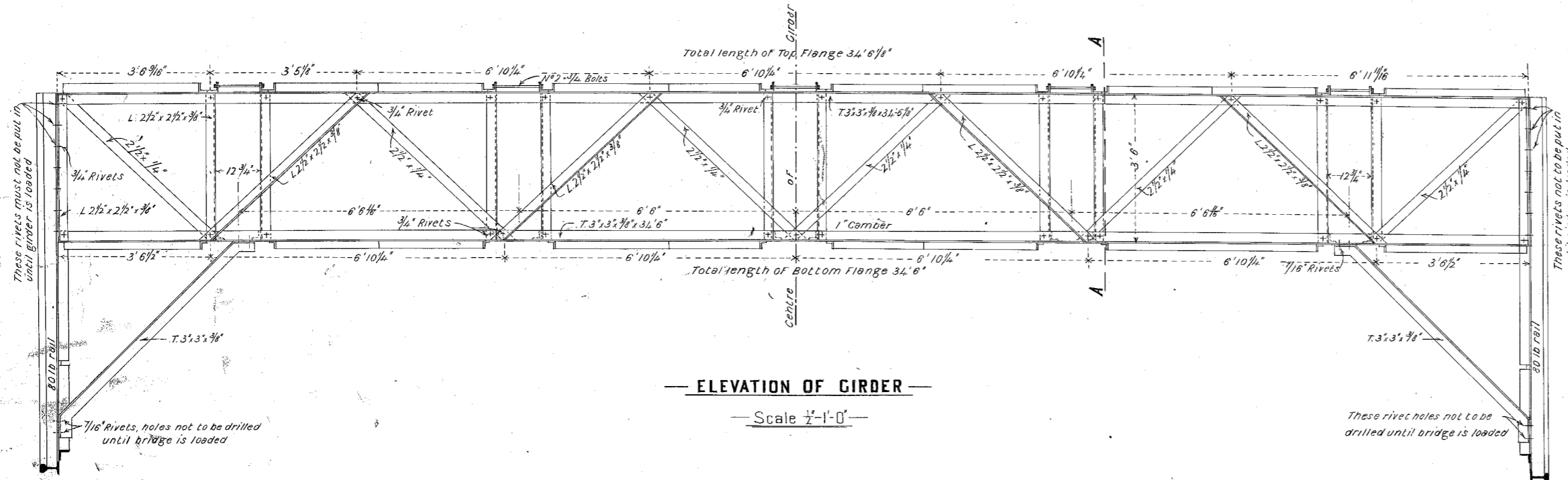
13^B

VICTORIAN RAILWAYS

FLINDERS STREET NEW STATION

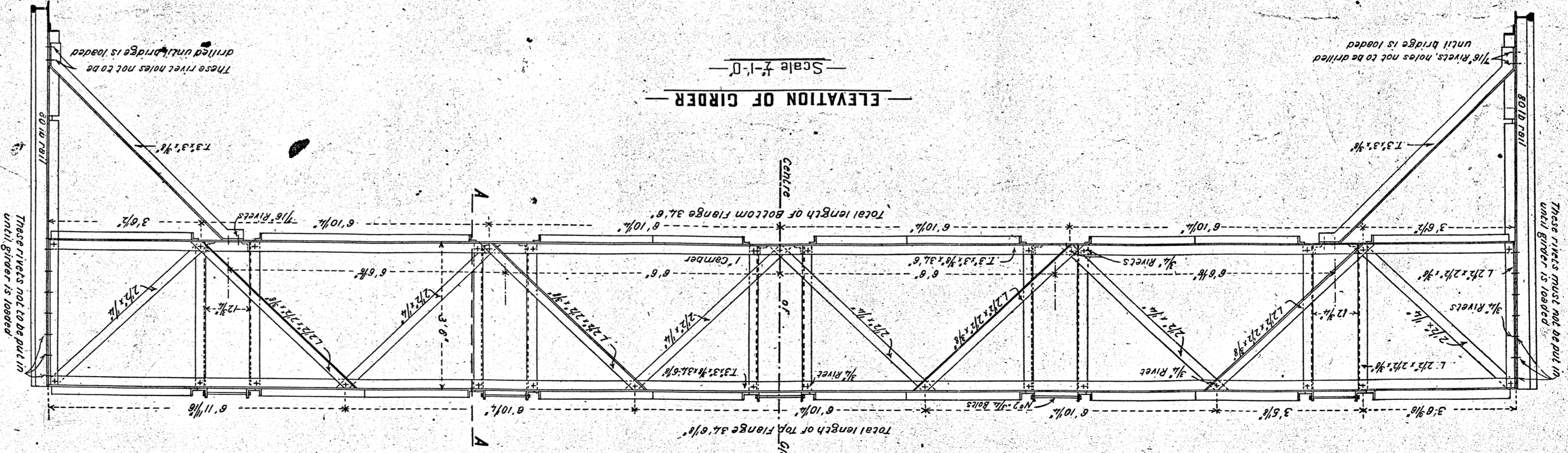
— SIGNAL BRIDGE AT MARKET ST —

CONTRACT N^o 10190
N^o

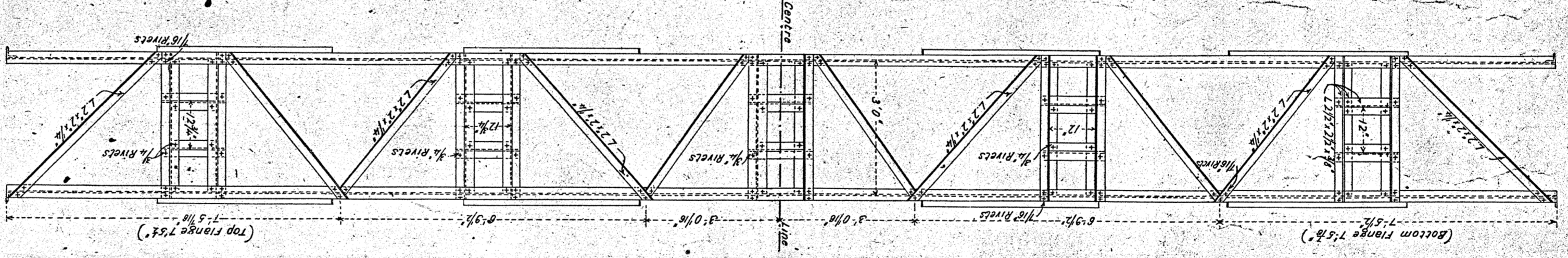


VICTORIAN RAILWAYS
FLINDERS STREET NEW STATION
SIGNAL BRIDGE AT MARKET ST

CONTRACT No 10190
No

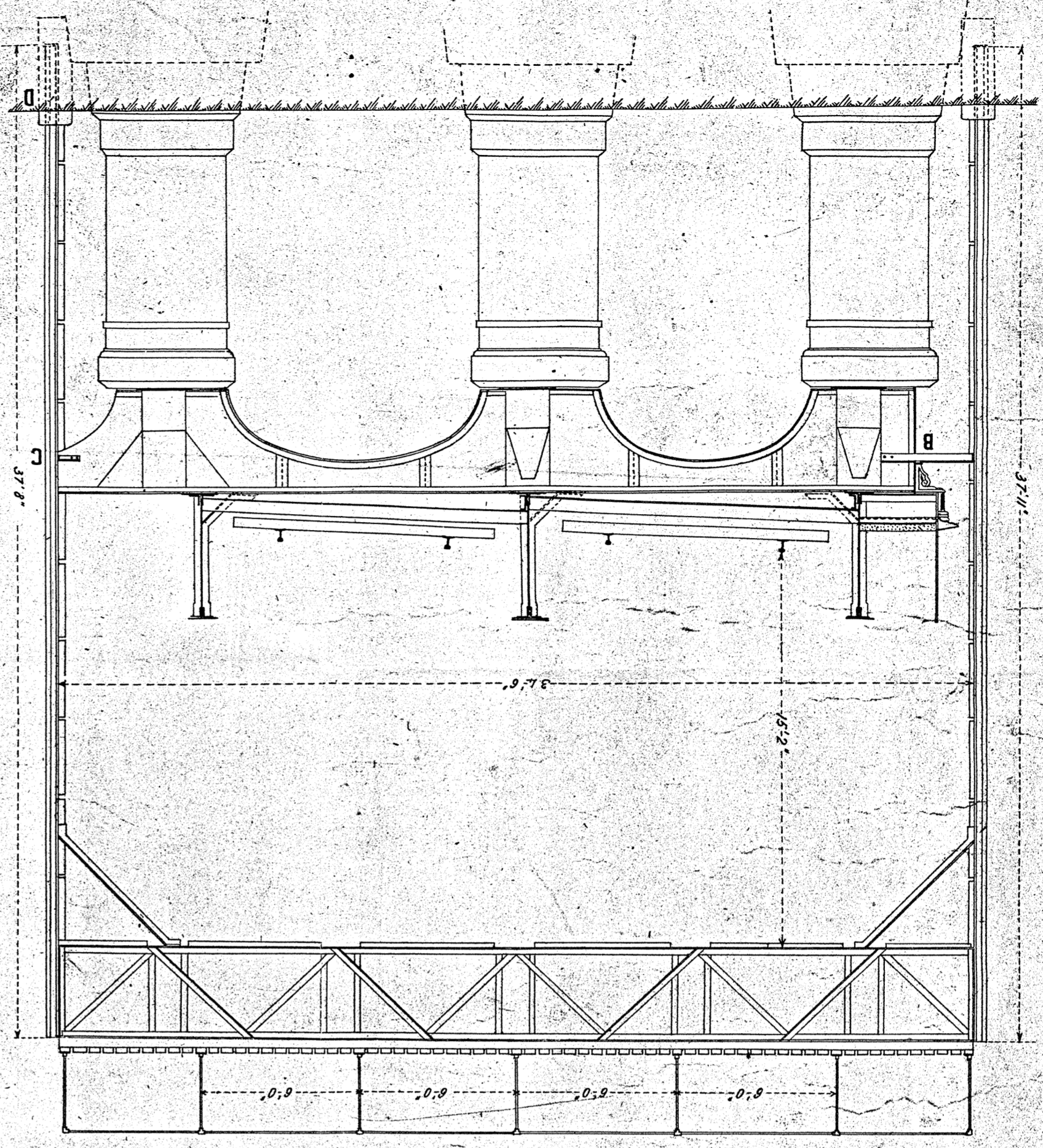


ELEVATION OF GIRDER
Scale 7/16"



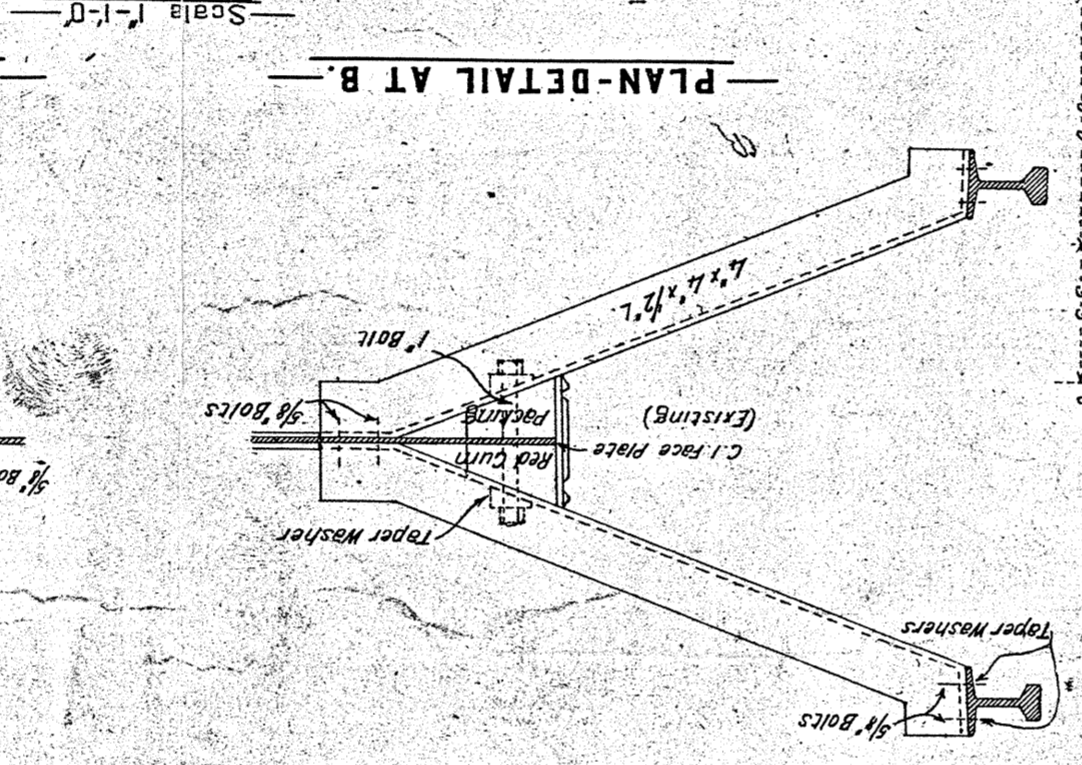
HALF PLAN OF BOTTOM FLANGE, LOOKING UP
Scale 1/4"

HALF PLAN OF TOP FLANGE
Scale 7/16"

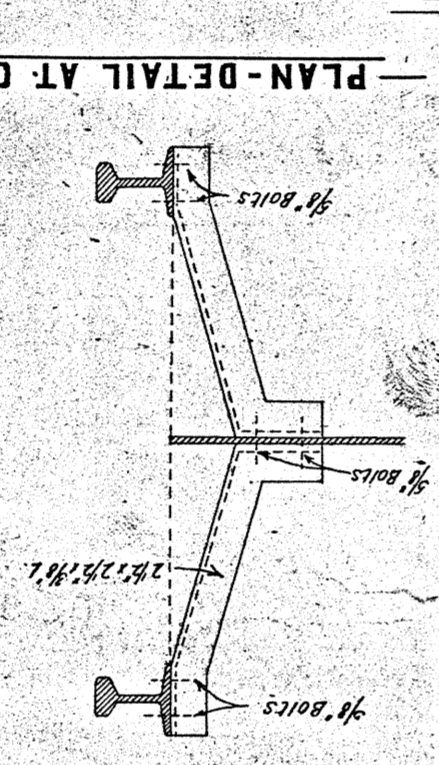


ELEVATION

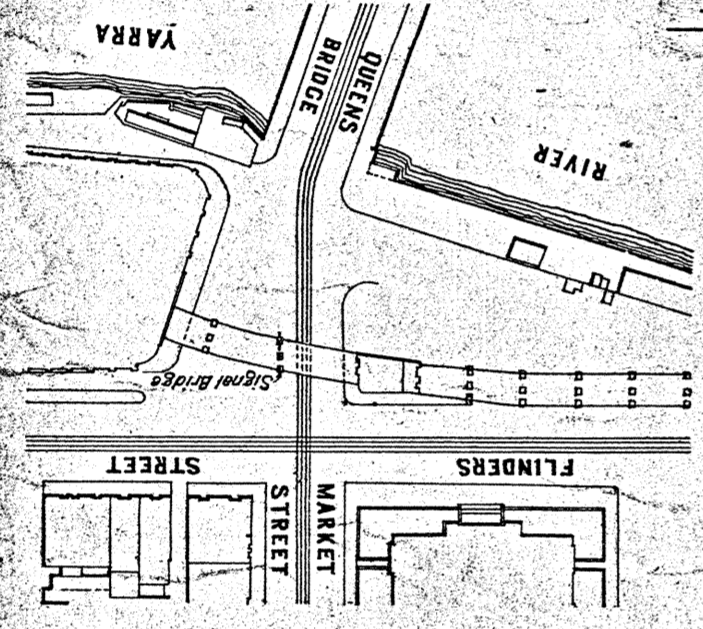
ELEVATION OF PIER TO RAILWAY
Scale 7/16"



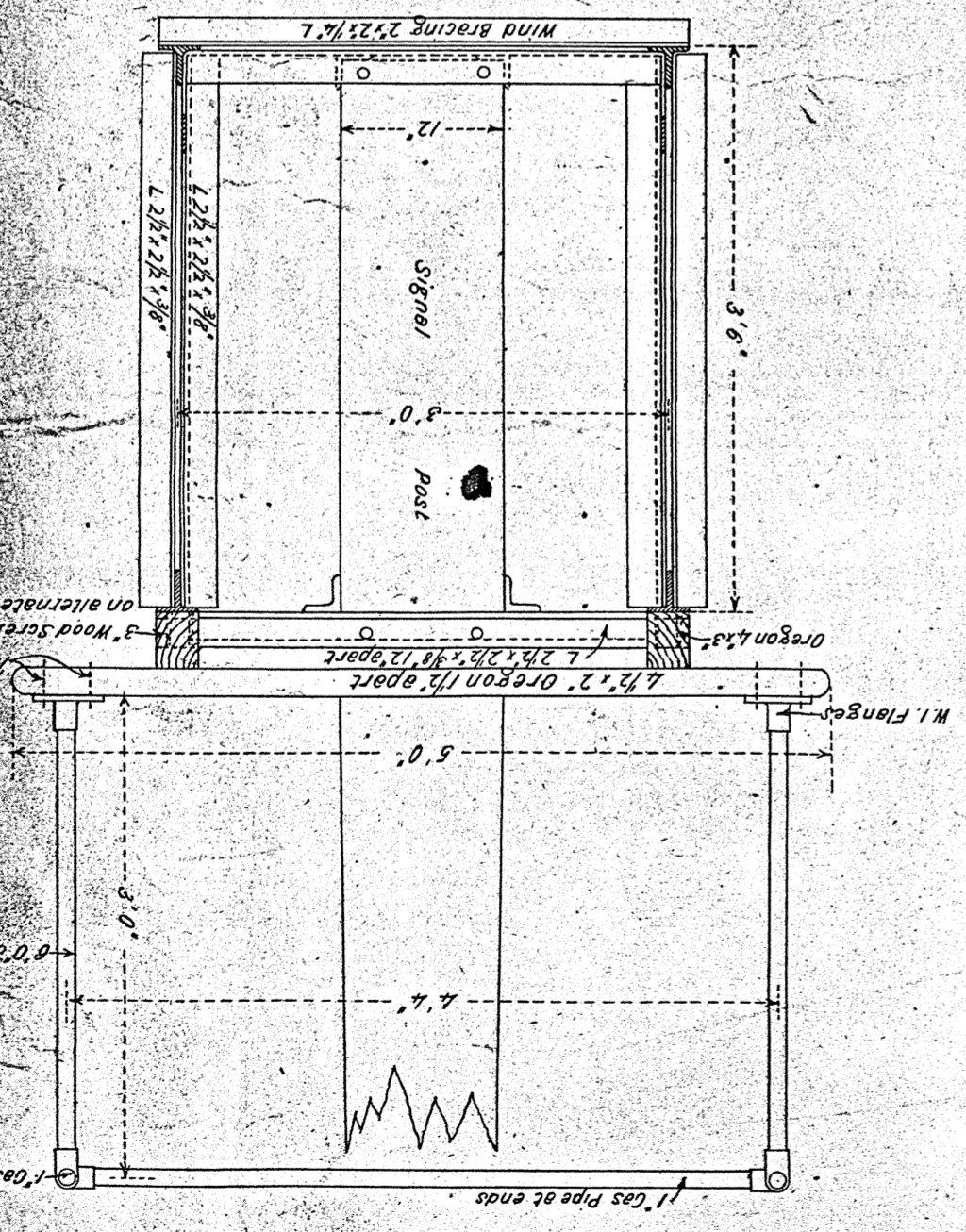
PLAN-DETAIL AT B
Scale 1/4"



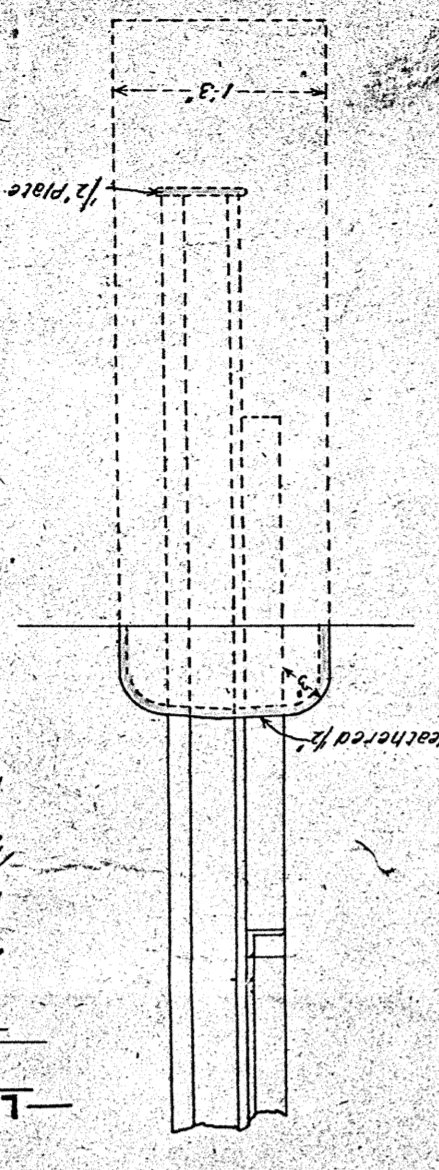
PLAN-DETAIL AT C
Scale 1/4"



LOCALITY PLAN
Scale 160' = 1" = 1"



SECTION A-A
Scale 1/4"

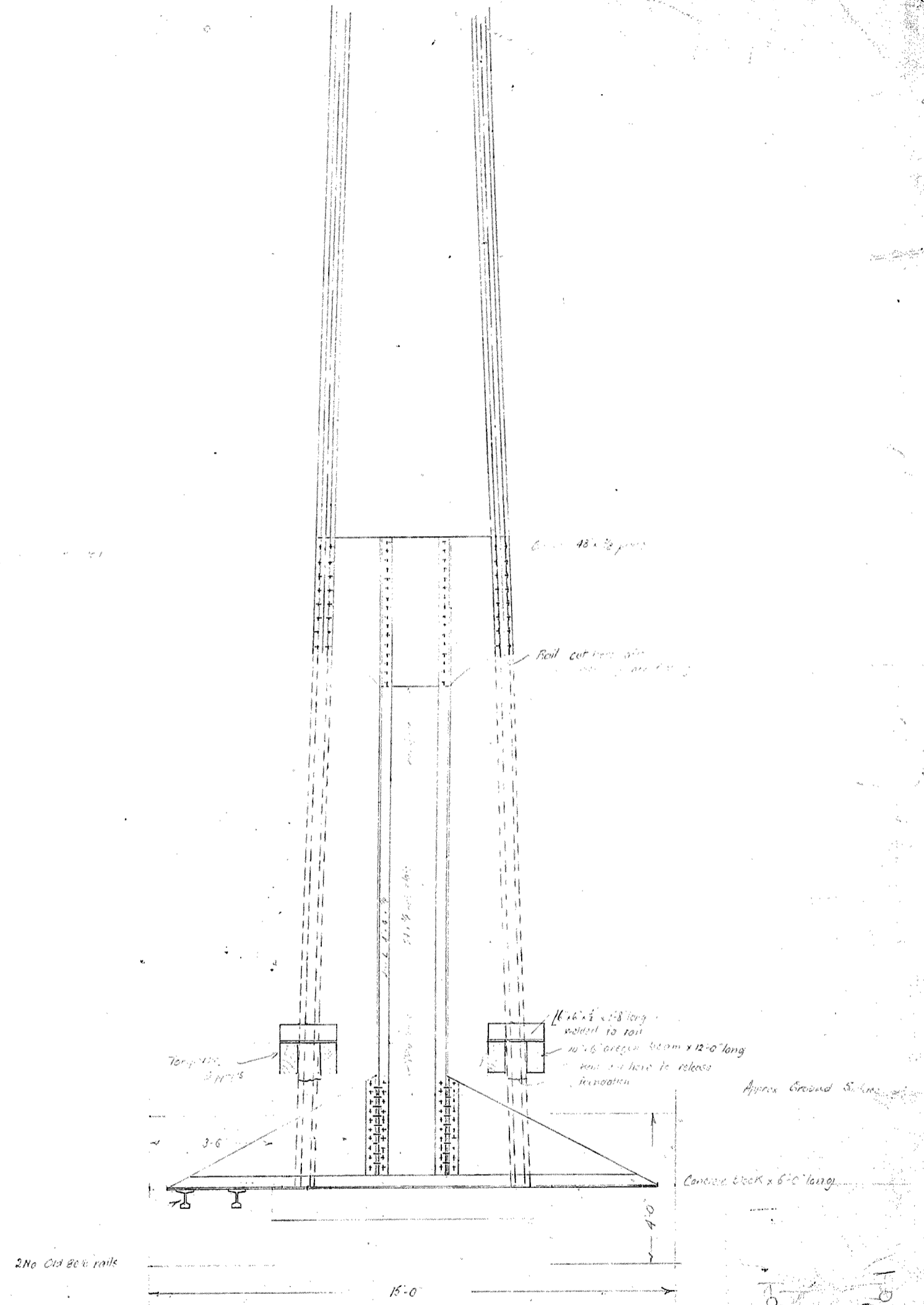
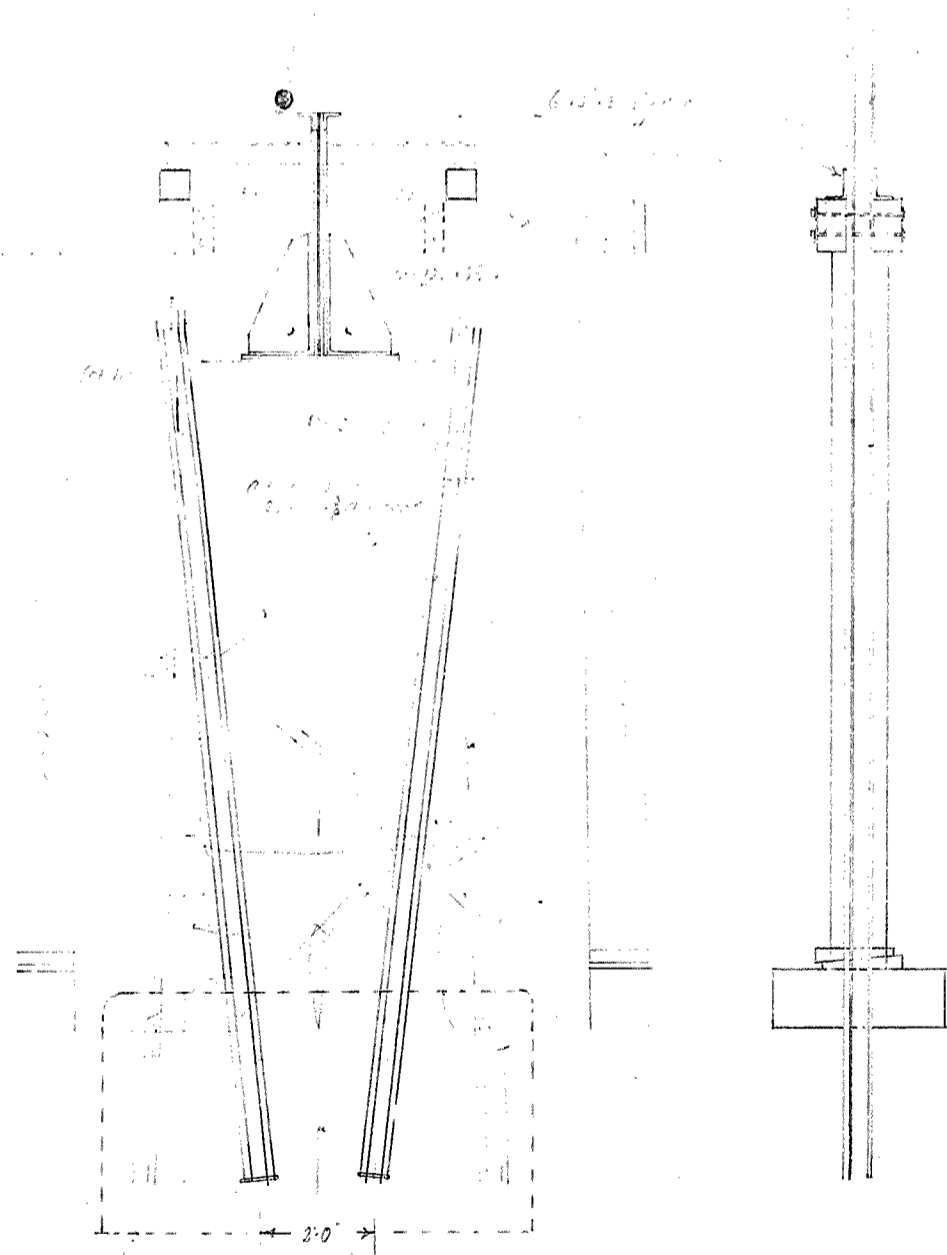


DETAIL AT D
Scale 7/16"



RAILWAY DEPARTMENT METROBURE SEP 1901

accept this as one of the Drawings referred to in the Specification and Conditions upon which I have based my Tender Dated the 17th day of August 1901
Signature of Contractor
Witness to Signature
Date 17/10/01



7
8
2
3

B-16-38
 FLINDERS ST VIAOUCT
 PROPOSED ALTERATION TO SIGNAL BRIDGE
 AT PER
 SIGNAL BRIDGE No. 1

JUL 1 1861

22
5
1861

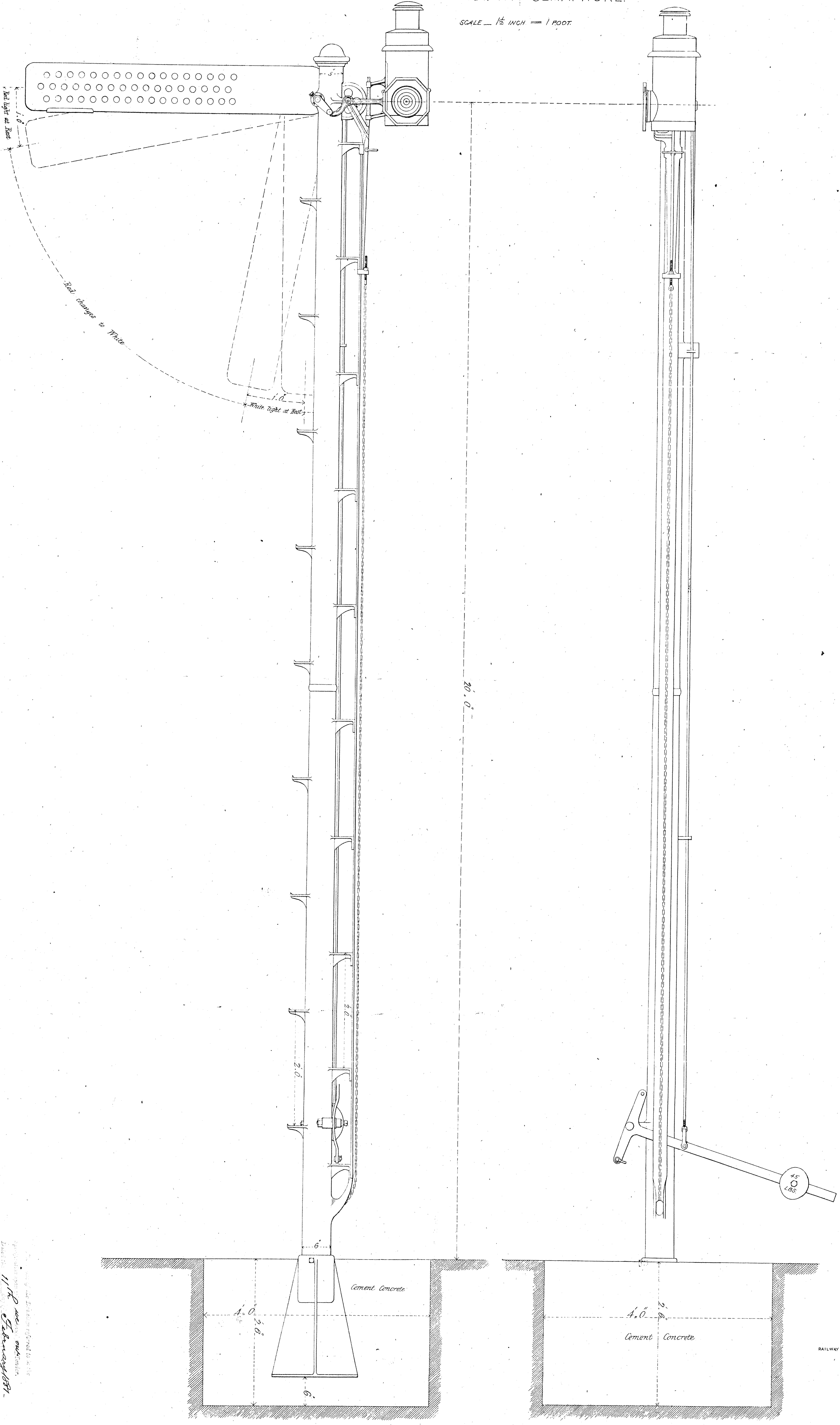
VICTORIAN RAILWAYS,

Contract N^o 1361

20 FEET DISTANT SEMAPHORE.

N^o 1.

SCALE $\frac{1}{2}$ INCH = 1 FOOT.



Approved by the Engineer-in-Chief
 11th Nov 1861
 J. H. Thompson & Co.

RAILWAY DEPARTMENT, MELBOURNE, DEC. 1870.
 1870
 1877

THE
 ENGINEERING
 DEPARTMENT

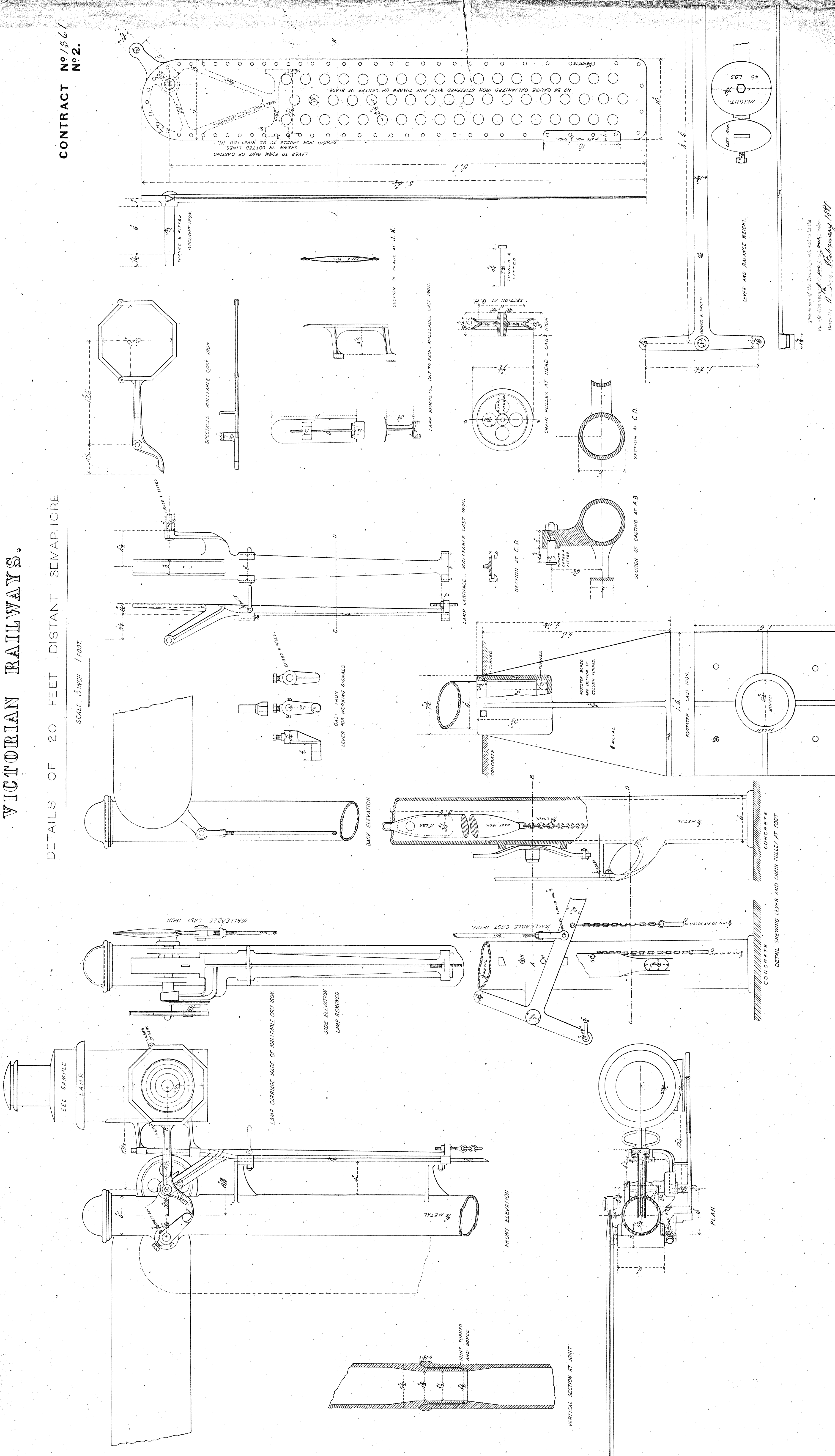
H. J. ...
 1873

VICTORIAN RAILWAYS.

DETAILS OF 20 FEET DISTANT SEMAPHORE

SCALE, 3/4 INCH = 1 FOOT.

CONTRACT No 1361
No 2.

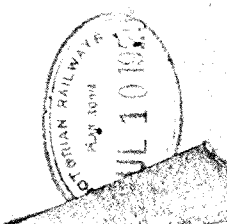


The work of this Department is to be done in accordance with the Specifications of the Railway Department, 1881. It is to be done in accordance with the Specifications of the Railway Department, 1881. It is to be done in accordance with the Specifications of the Railway Department, 1881.

RAILWAY DEPARTMENT, MELBOURNE, DEC. 1881.

W. H. R. THOMPSON & CO.

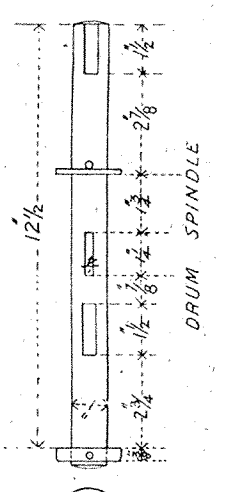
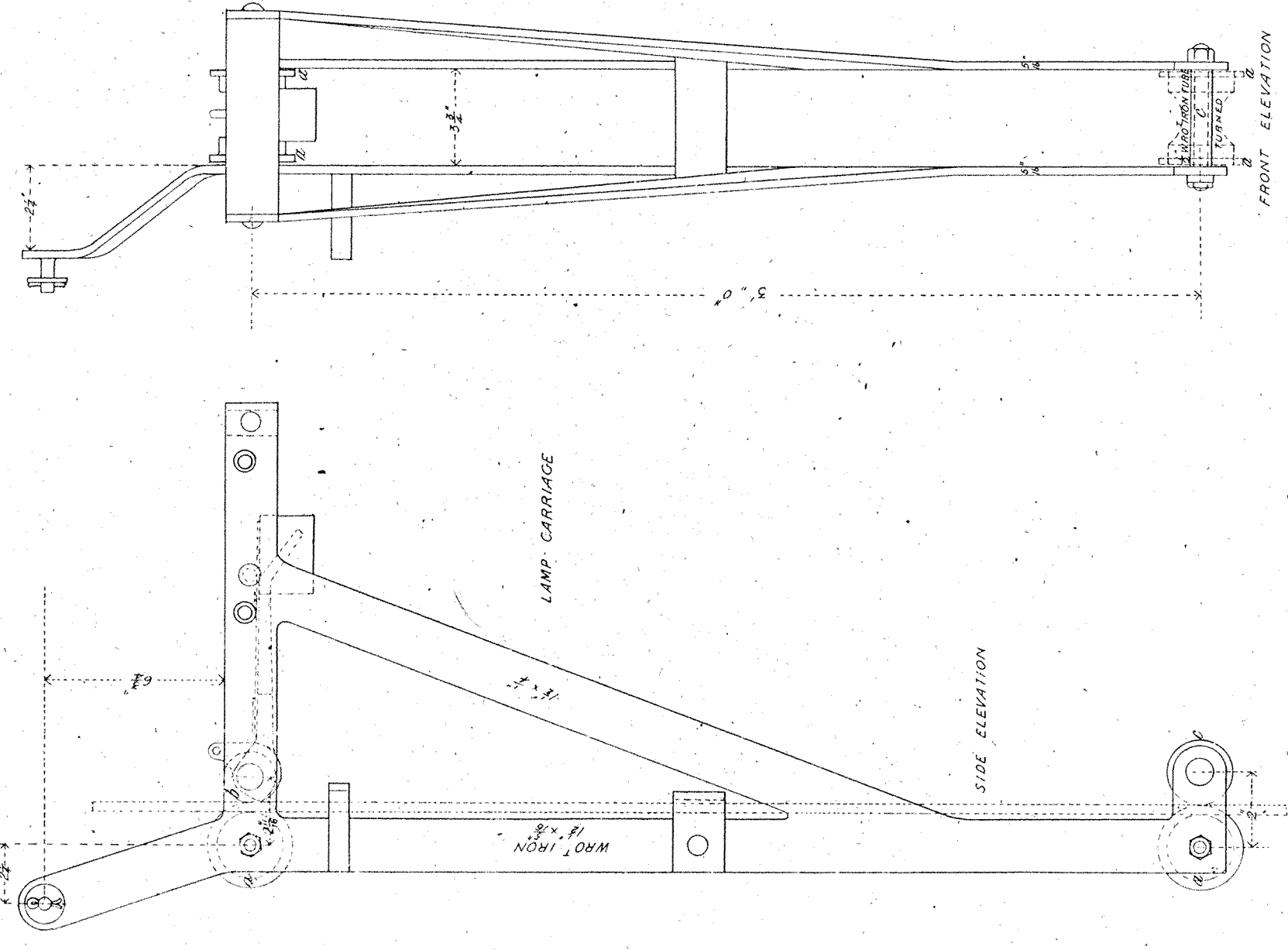
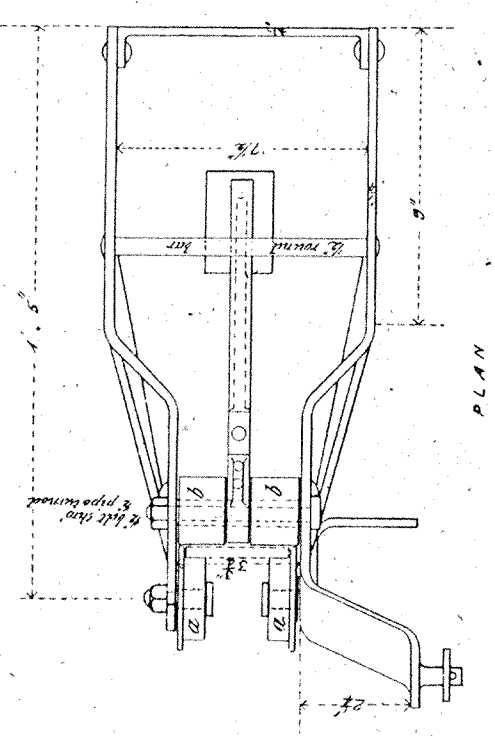
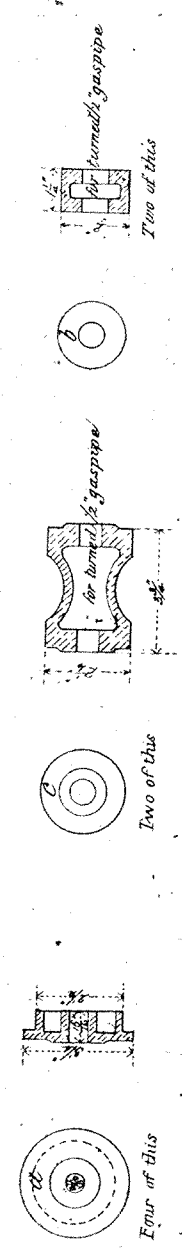
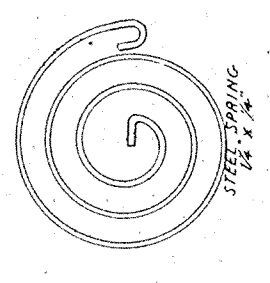
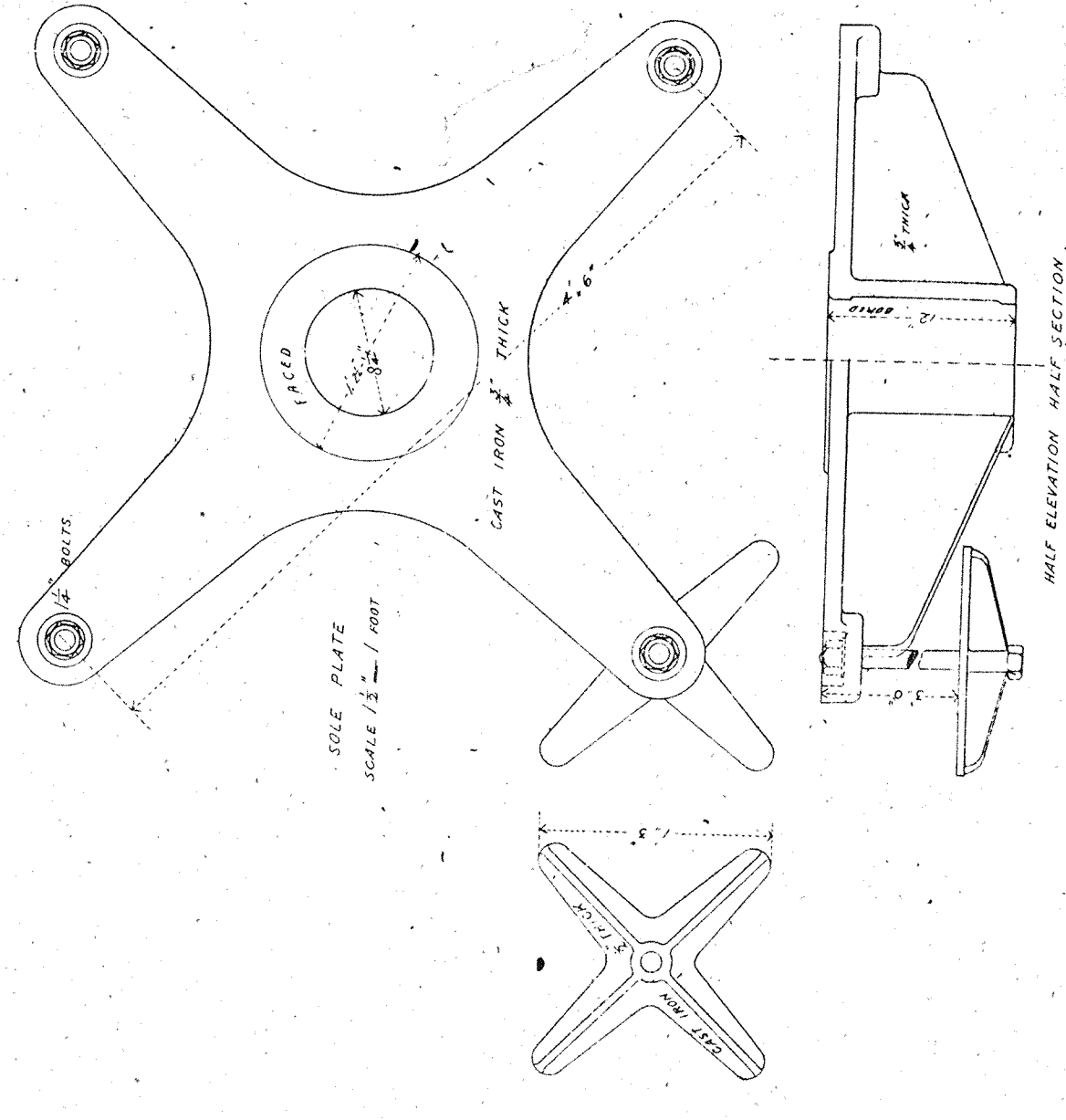
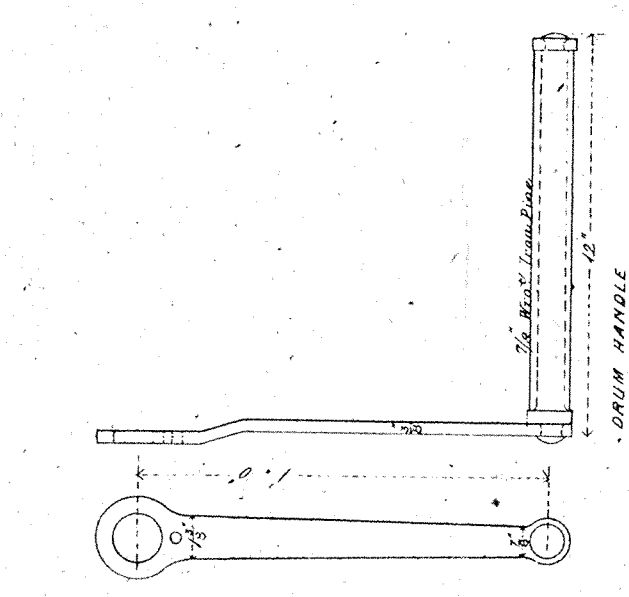
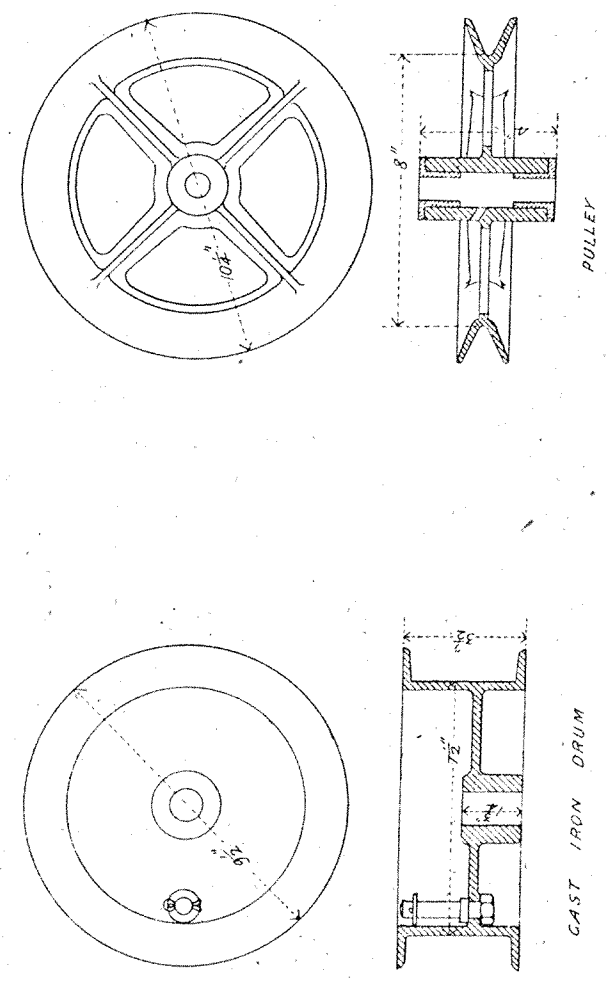
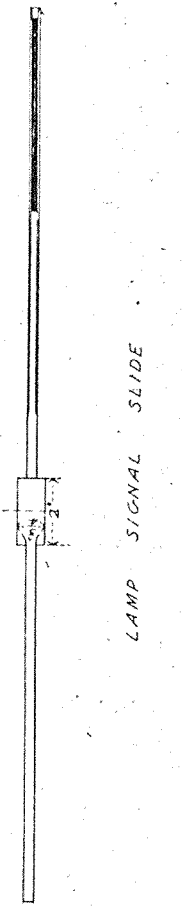
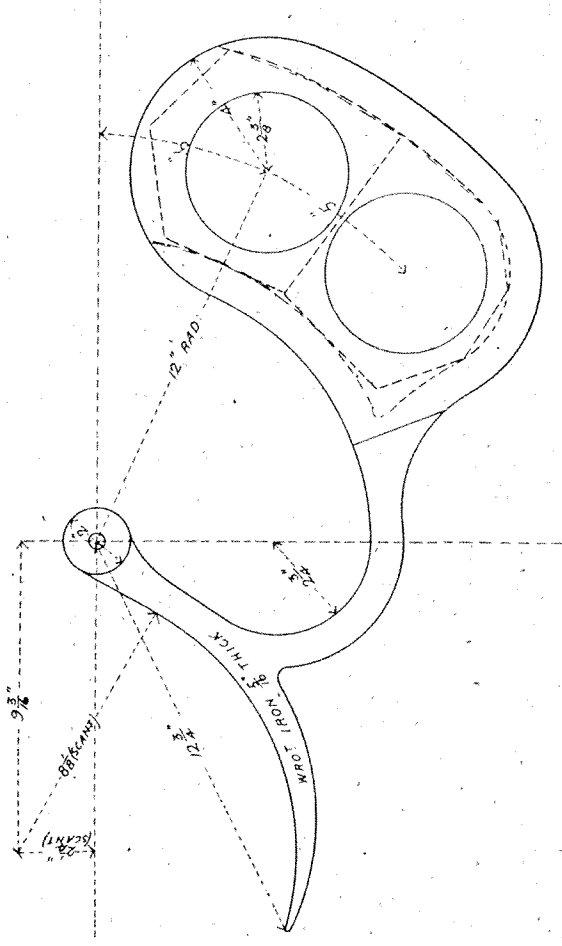
Contract No 1361 (cont. of 1881) of 27.3.1881 for 20 FT. DISTANT SEMAPHORE FOR RAILWAY - ST. ALBANS - DUNEDIN, ST. ALBANS - SELWICK & COMPANY - SHELL.



**VICTORIAN RAILWAYS.
NORTH EASTERN LINE**

**DETAILS 30 FT SEMAPHORE
(CAST IRON)
SCALE 3/16" = 1 FOOT**

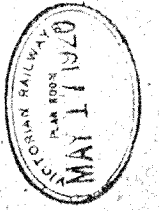
*Contract No 507
No 3*



GUN METAL ROLLERS FOR LAMP CARRIAGE
Scale three sixteenths

*This is one of the drawings referred to in the Specification, after which
I had my scales altered to 3/16" = 1 foot
Wm. L. Roper
4/18/73*

RAILWAY DEPARTMENT MELBOURNE, JULY, 1873



Contract N° 507

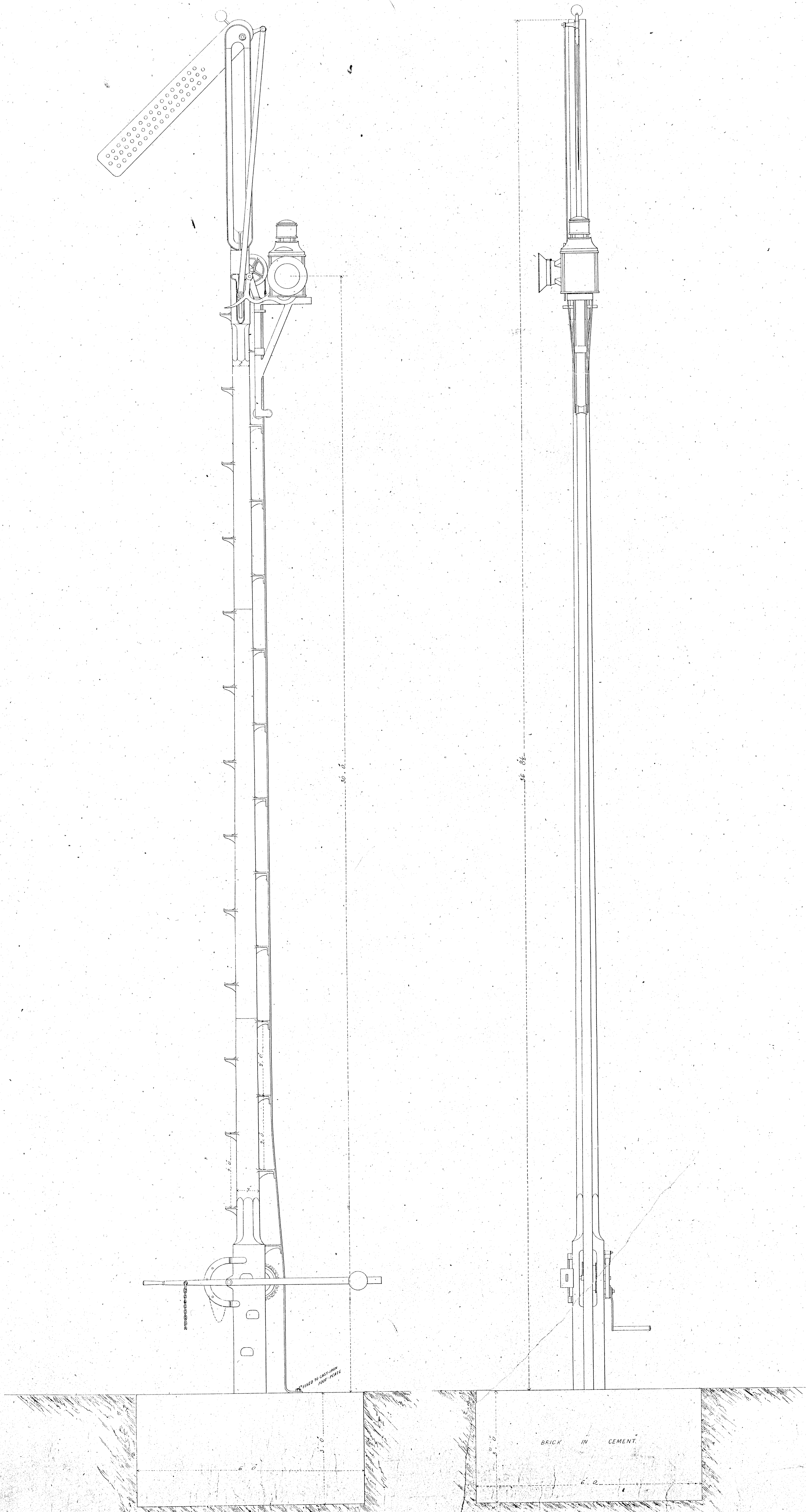
N° 1

VICTORIAN RAILWAYS.

NORTH EASTERN LINE

30 FEET DISTANT SEMAPHORE

SCALE - 1 INCH = 1 FOOT.



RAILWAY DEPARTMENT, MELBOURNE, 1873

This is one of the drawings referred to in the Specification upon which I gave my Tender on the 25th day of July 1873

James P. ...

Messrs. ...



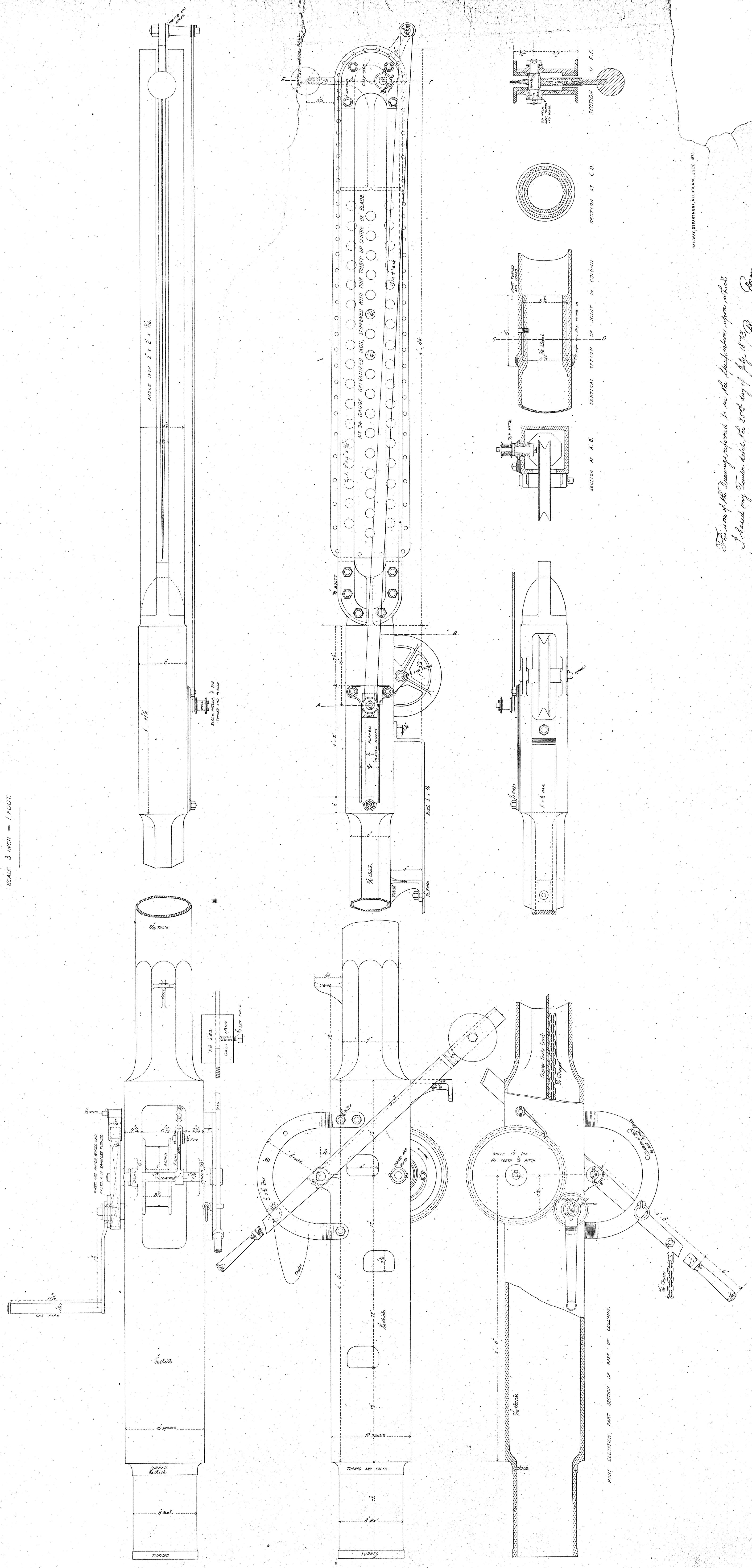
VICTORIAN RAILWAYS.

NORTH EASTERN LINE

DETAILS OF CAST IRON 30 FEET SEMAPHORE.

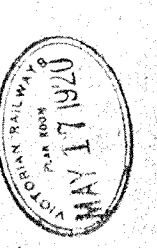
SCALE 3 INCH = 1 FOOT

Contract No 507
No 2



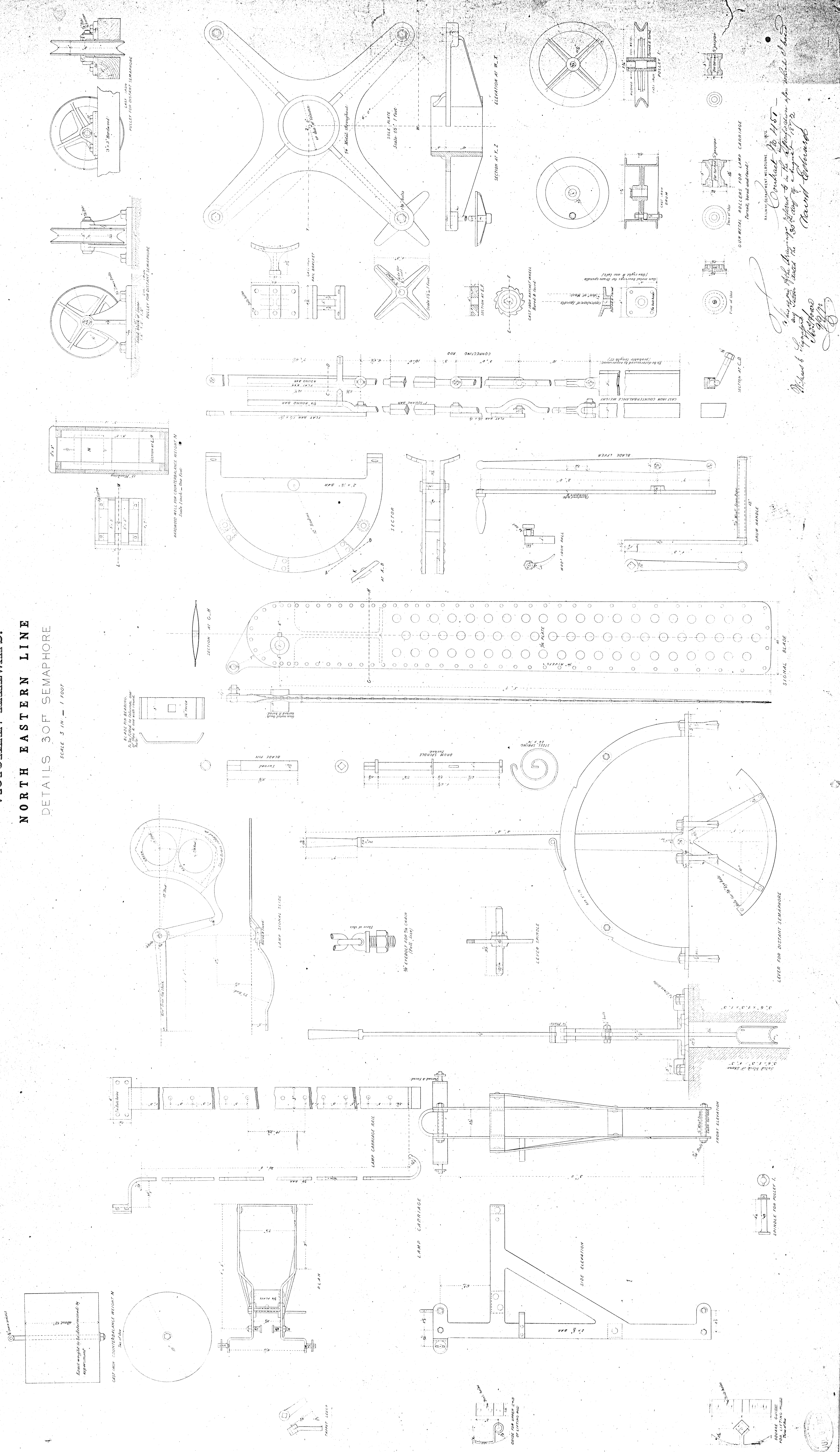
RAILWAY DEPARTMENT MELBOURNE, JULY, 1873.

This is one of the Drawings referred to in the Specification upon which
I based my Tender dated the 20th day of July, 1873
W. Thorne & Co. Engineers
14/15/73



VICTORIAN RAILWAYS.
NORTH EASTERN LINE
DETAILS 30 FT SEMAPHORE

SCALE 3 IN. = 1 FOOT



RAILWAY DEPARTMENT MELBOURNE
 Contract No. 457 -
 This is a copy of the drawings prepared in the office of the Engineer in Charge of the
 and were used for the erection of a semaphore at
 1872
 Robert Edwards
 Engineer

GUN METAL ROLLERS FOR LAMP CARRIAGE
 Turned, bored and drilled.

CAST IRON COUNTERBALANCE WEIGHT
 Dimensions as required.
 The weight to be used for the
 operation of the
 lever is to be
 cast from
 gun metal
 and to be
 turned
 and
 drilled
 as
 shown.

SECTION AT G-D
 SECTION AT E-F
 SECTION AT W-X
 SECTION AT Y-Z

SECTION AT G-H
 SECTION AT I-J
 SECTION AT K-L
 SECTION AT M-N
 SECTION AT O-P
 SECTION AT Q-R
 SECTION AT S-T
 SECTION AT U-V
 SECTION AT X-Y
 SECTION AT Z-A

SECTION AT B-C
 SECTION AT D-E
 SECTION AT F-G
 SECTION AT H-I
 SECTION AT J-K
 SECTION AT L-M
 SECTION AT N-O
 SECTION AT P-Q
 SECTION AT R-S
 SECTION AT T-U
 SECTION AT V-W
 SECTION AT X-Y
 SECTION AT Z-A

SECTION AT A-B
 SECTION AT C-D
 SECTION AT E-F
 SECTION AT G-H
 SECTION AT I-J
 SECTION AT K-L
 SECTION AT M-N
 SECTION AT O-P
 SECTION AT Q-R
 SECTION AT S-T
 SECTION AT U-V
 SECTION AT W-X
 SECTION AT Y-Z

SECTION AT M-N
 SECTION AT O-P
 SECTION AT Q-R
 SECTION AT S-T
 SECTION AT U-V
 SECTION AT W-X
 SECTION AT Y-Z

SECTION AT A-B
 SECTION AT C-D
 SECTION AT E-F
 SECTION AT G-H
 SECTION AT I-J
 SECTION AT K-L
 SECTION AT M-N
 SECTION AT O-P
 SECTION AT Q-R
 SECTION AT S-T
 SECTION AT U-V
 SECTION AT W-X
 SECTION AT Y-Z

SECTION AT A-B
 SECTION AT C-D
 SECTION AT E-F
 SECTION AT G-H
 SECTION AT I-J
 SECTION AT K-L
 SECTION AT M-N
 SECTION AT O-P
 SECTION AT Q-R
 SECTION AT S-T
 SECTION AT U-V
 SECTION AT W-X
 SECTION AT Y-Z

RAILWAY DEPARTMENT MELBOURNE
 CONTRACT NO. 457 -
 THIS IS A COPY OF THE DRAWINGS PREPARED IN THE OFFICE OF THE ENGINEER IN CHARGE OF THE
 AND WERE USED FOR THE ERECTION OF A SEMAPHORE AT
 1872
 ROBERT EDWARDS
 ENGINEER

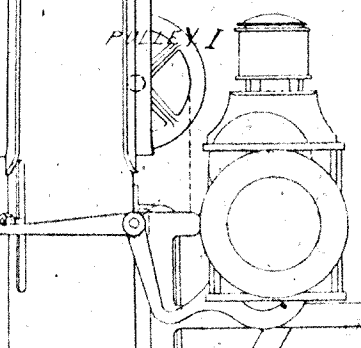
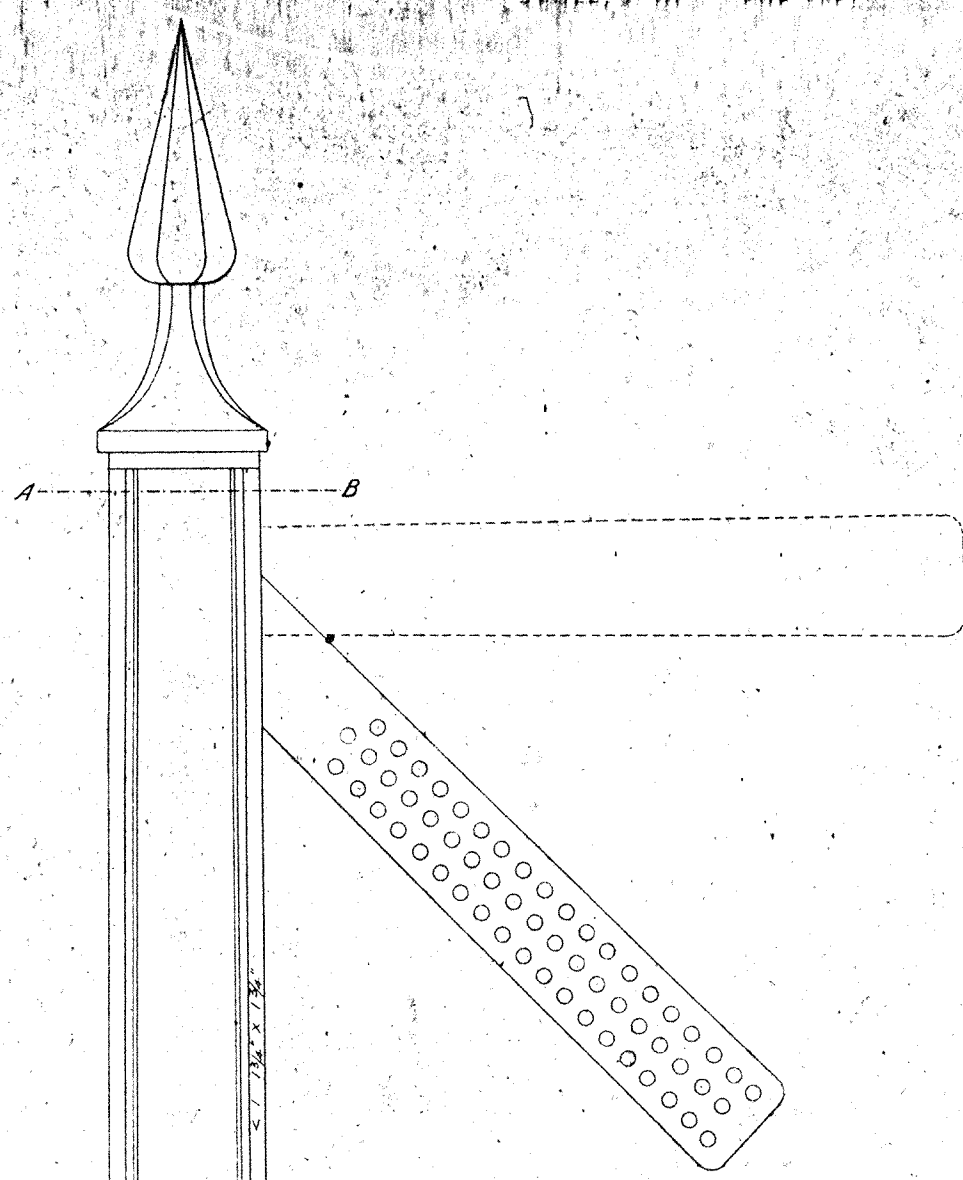
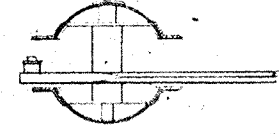
VICTORIAN RAILWAYS.

NORTH EASTERN LINE

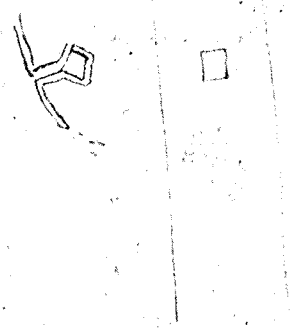
30 FT SEMAPHORE

SCALE, 1/4 IN = ONE FOOT.

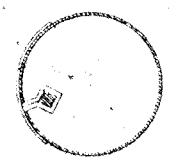
SECTION AT A.B.



ON PLATE



SECTION AT C.D.



C-D

C-D

C-D

C-D

C-D

C-D

C-D

C-D

C-D

C-D

C-D

C-D

C-D

C-D

C-D

C-D

C-D

C-D

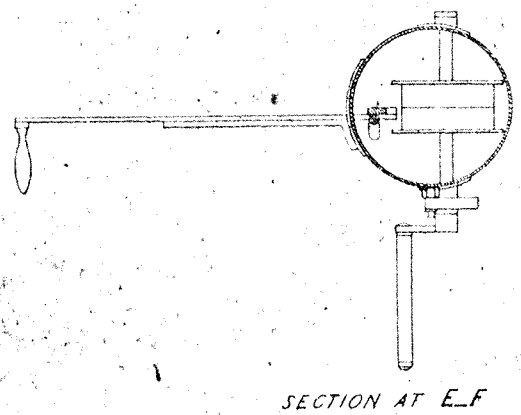
C-D

C-D

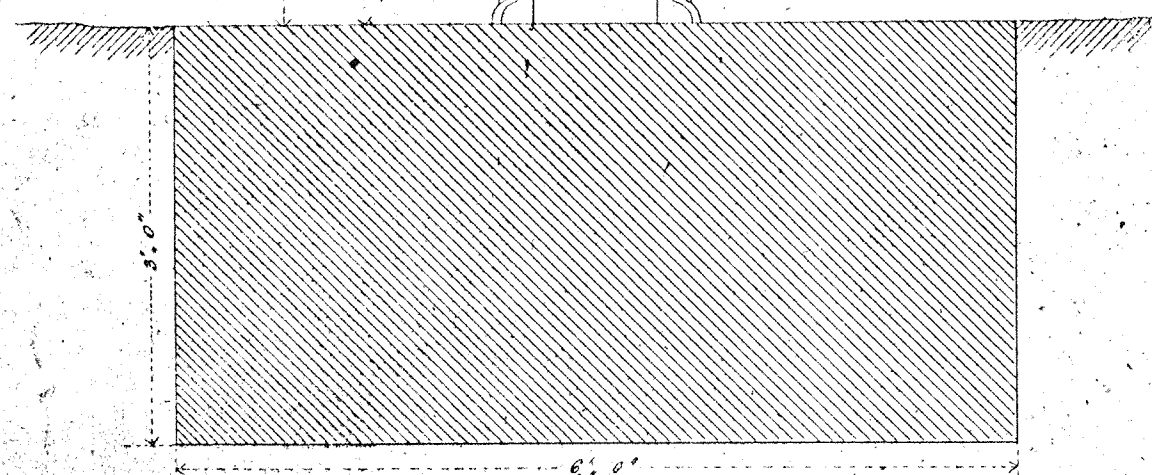
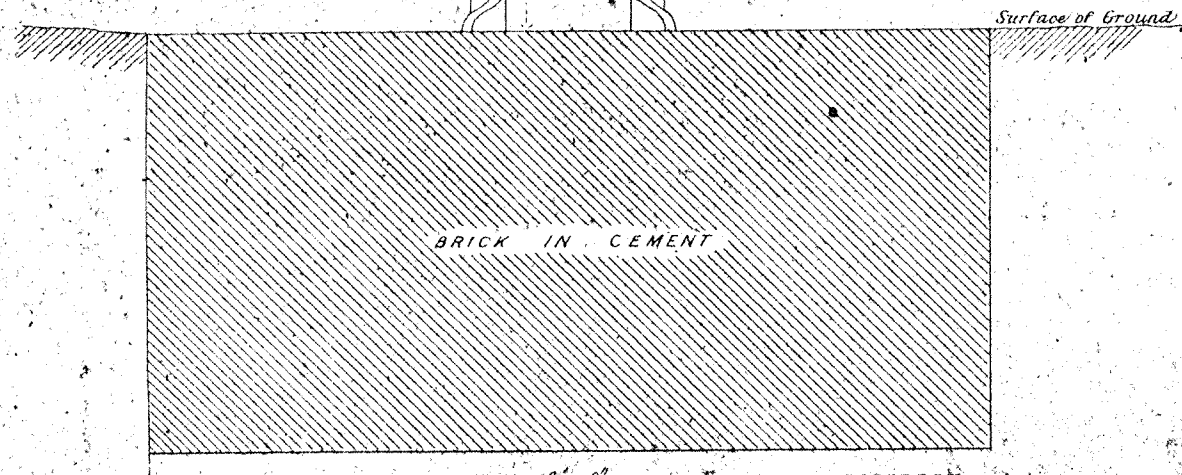
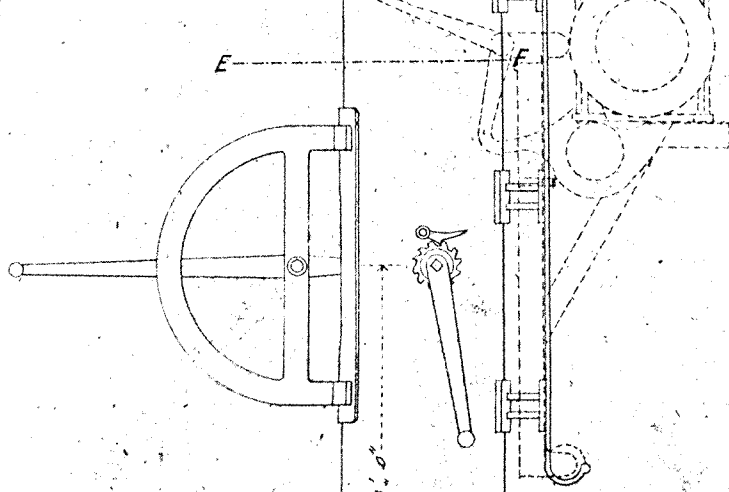
C-D

C-D

C-D



SECTION AT E.F.



30' 0" to Pinnet

22' 0" to centre of Lens

Contract 457
This is one of the drawings referred to in the Specifications upon which I
based my tender dated the 30th day of August 1872
Richard G. Edwards
9/9/72

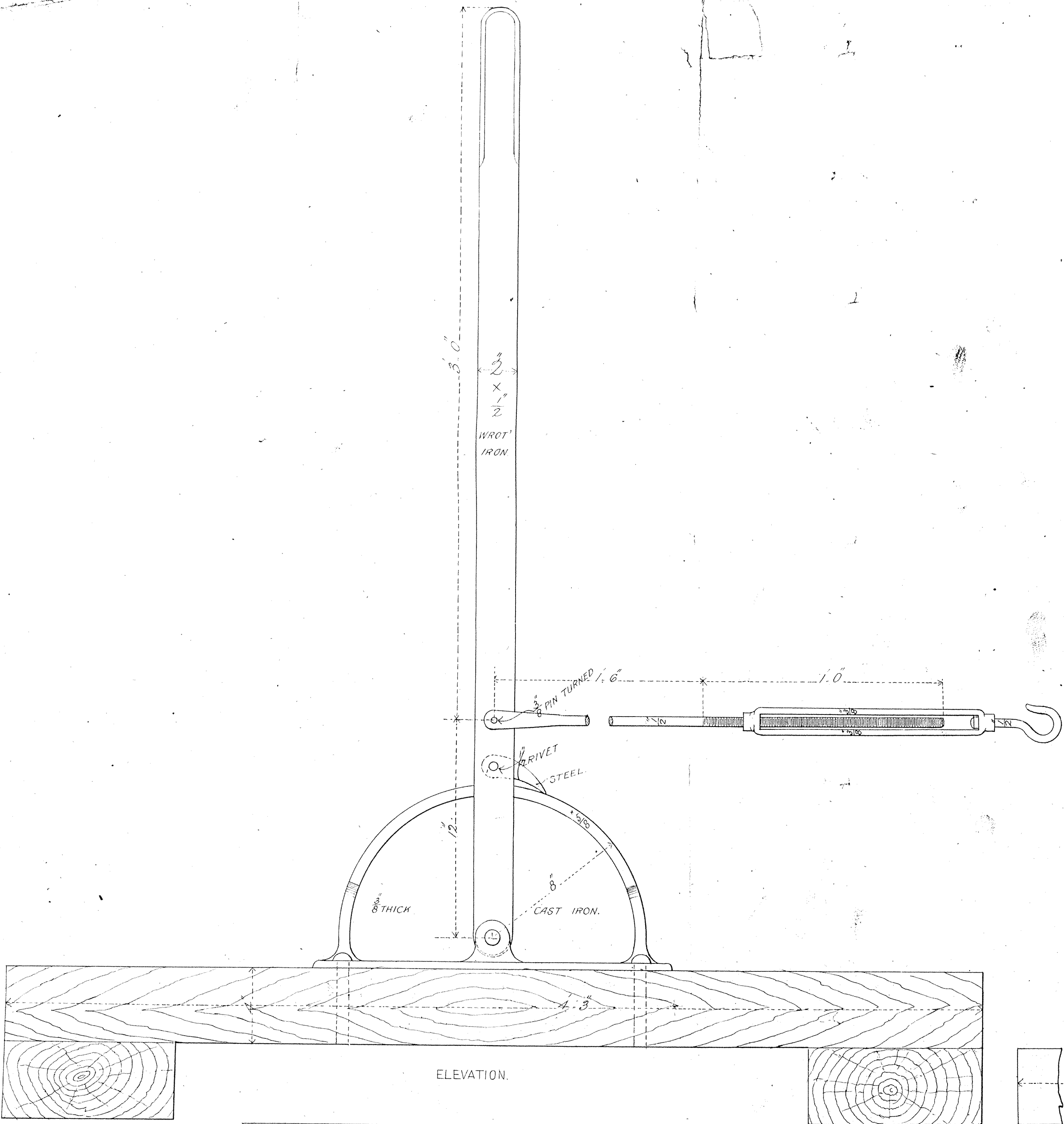
VICTORIAN RAILWAYS,

LEVER FOR WORKING DISTANT SEMAPHORE

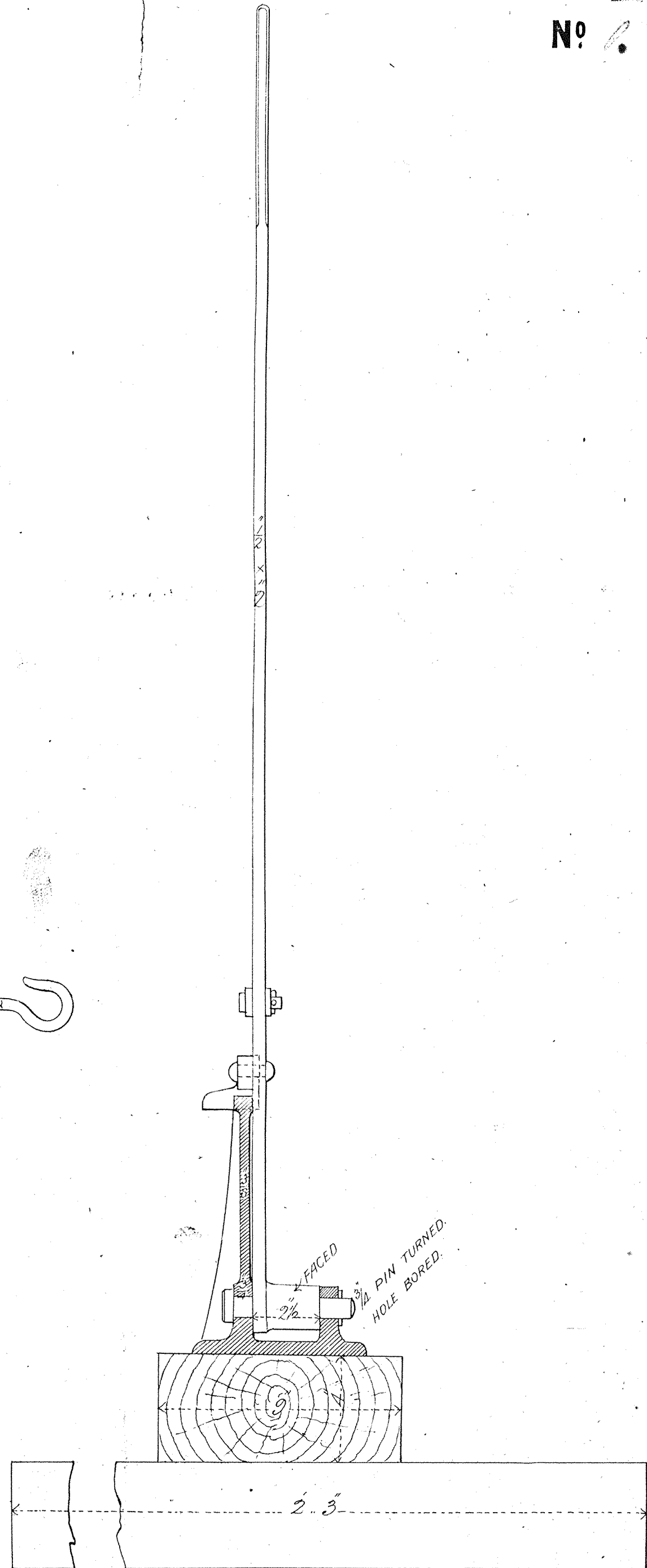
SCALE - 3 INCHES = 1 FOOT.

CONTRACT No. 111

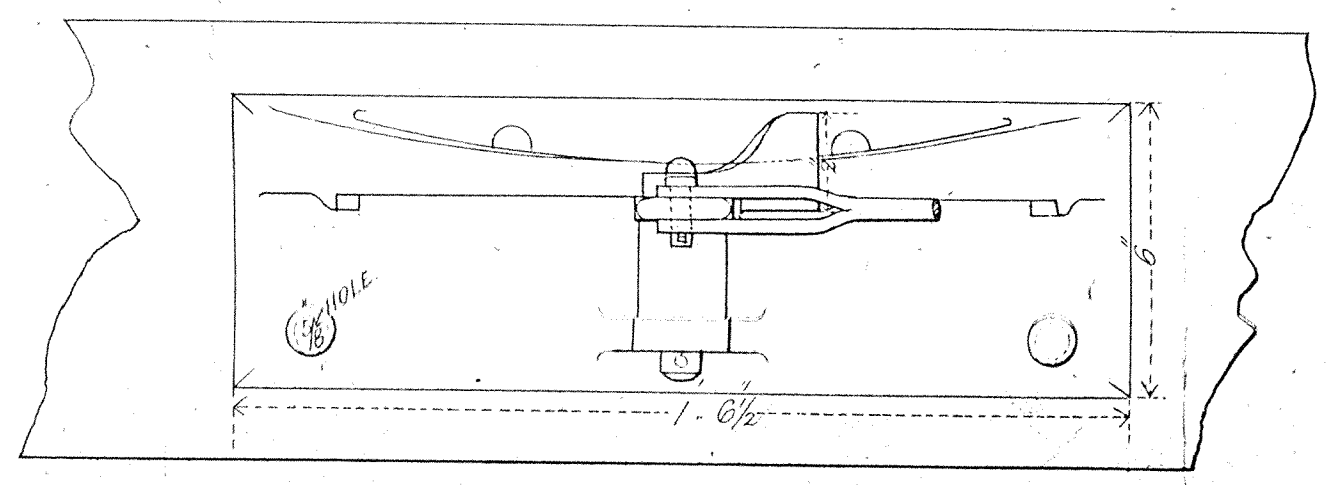
No. 6.



ELEVATION.



END VIEW SHEWING BED PLATES IN SECTION.



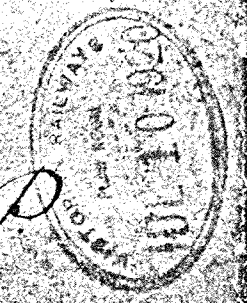
PLAN.

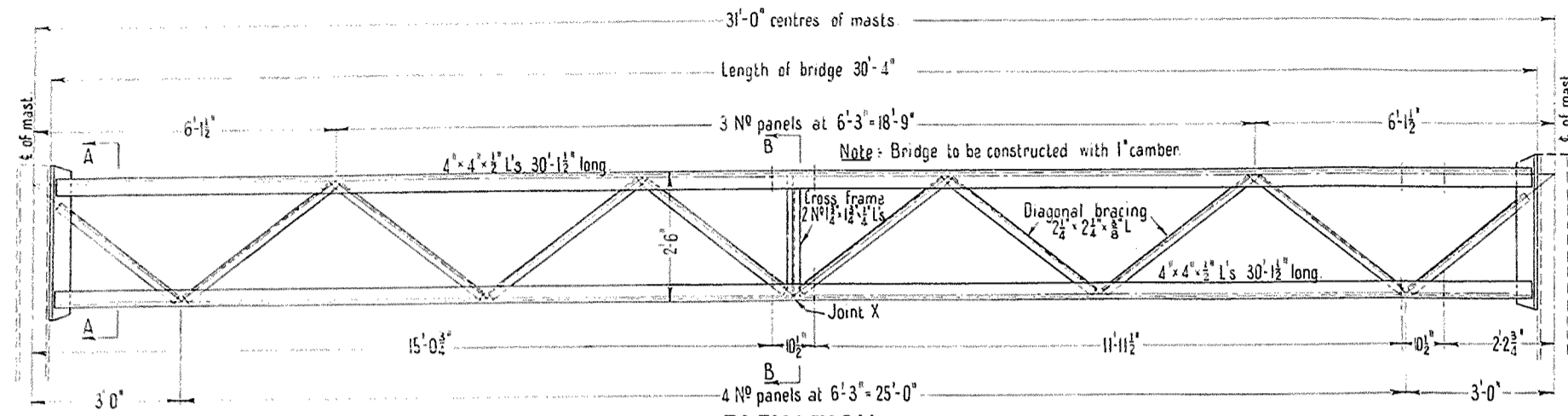
RAILWAY DEPARTMENT, MELBOURNE, APRIL, 1880. No 125

This is one of the Drawings referred to in the Specification upon which... based, and, tender.

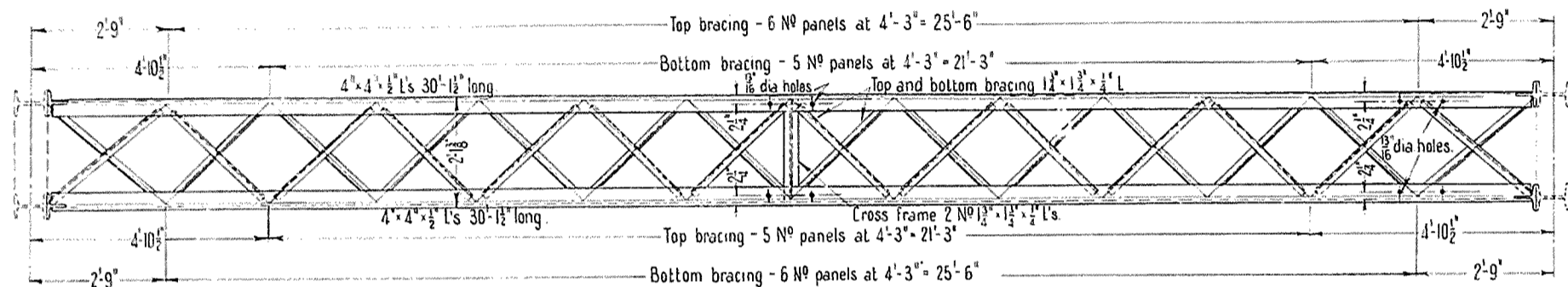
Dated the 9th day of July 1880

Philip Brown
W. P. ...

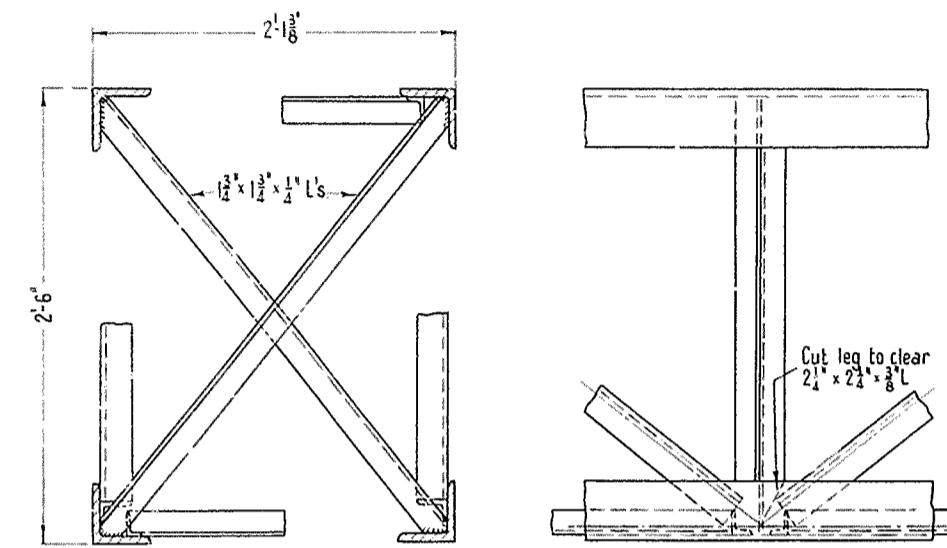




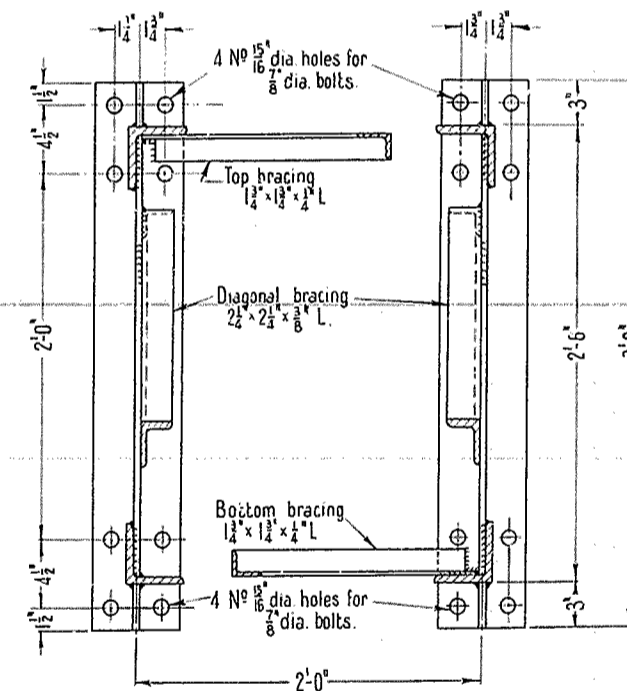
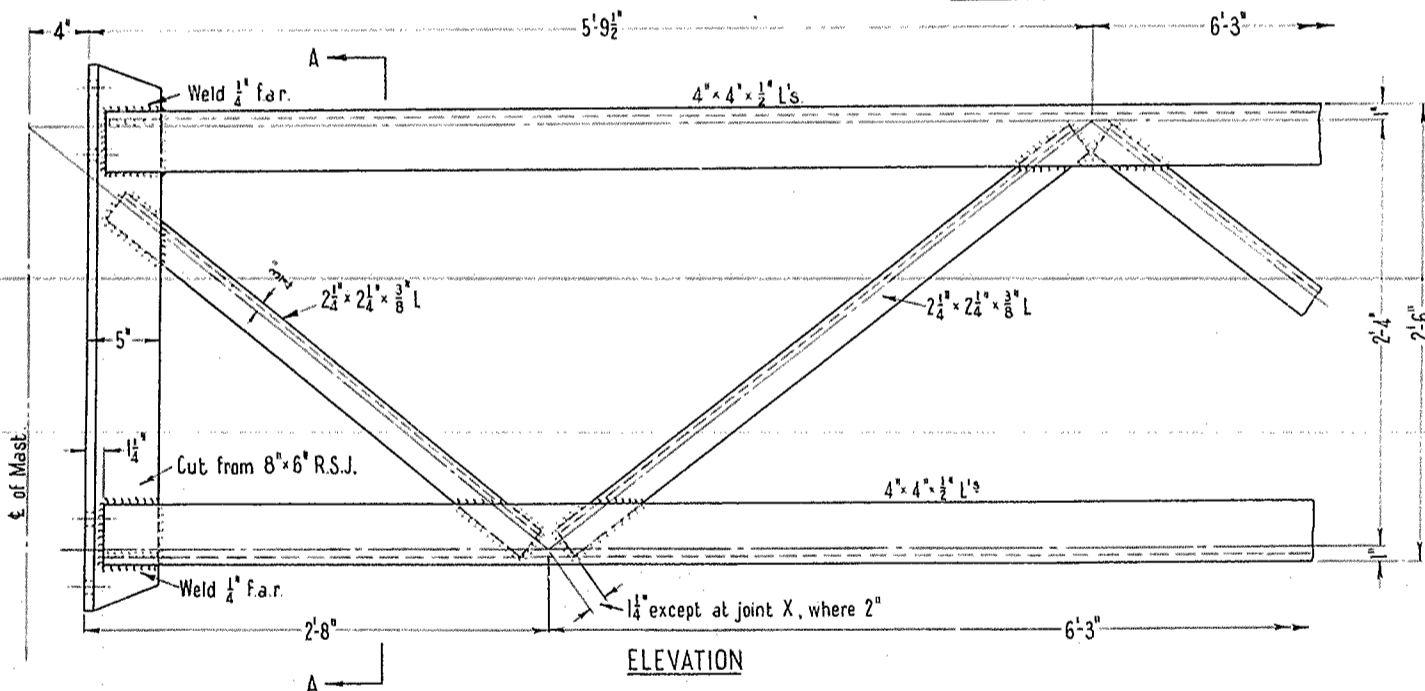
ELEVATION
 Scale: 1/2" = 1'-0"



PLAN
 Scale: 1/2" = 1'-0"

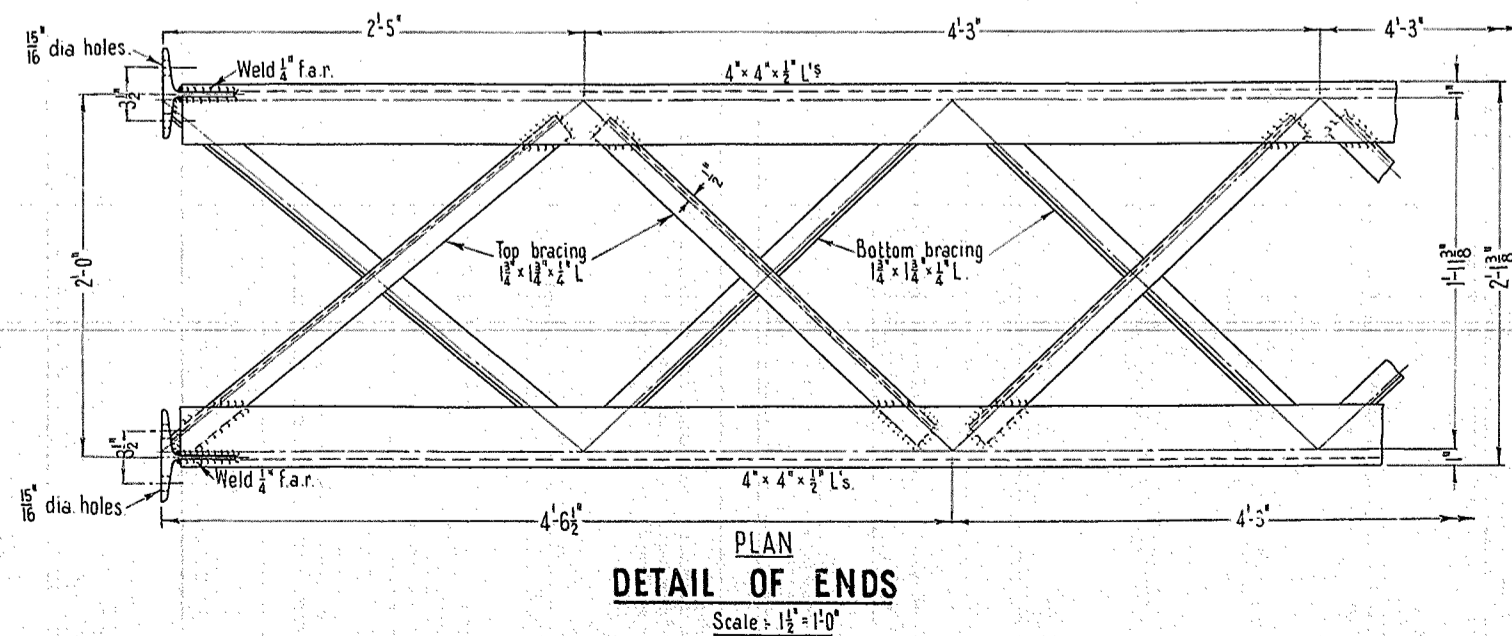


SECTION B-B
 Scale: 1/2" = 1'-0"



SECTION AA
 Scale: 1 1/2" = 1'-0"

Note: All welds to be 3/16" fillet welds unless otherwise shown.



-V.R.-
OVERHEAD ELECTRIFICATION

BRIDGE TYPE S2A
 FOR COMBINED SIGNAL AND OVERHEAD STRUCTURE

Chief Civil Engineer

Drawn
 K.J.B.

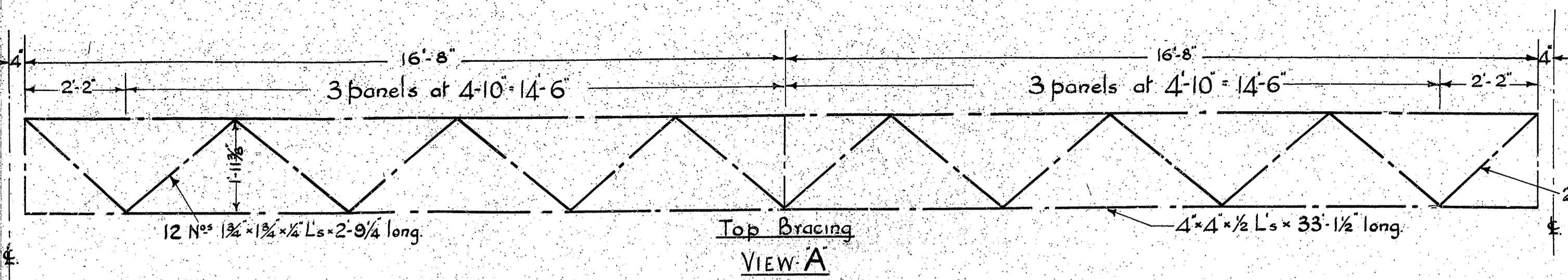
Traced
 M.D.

Checked
 K.W.W.

Engineer of Structural Design

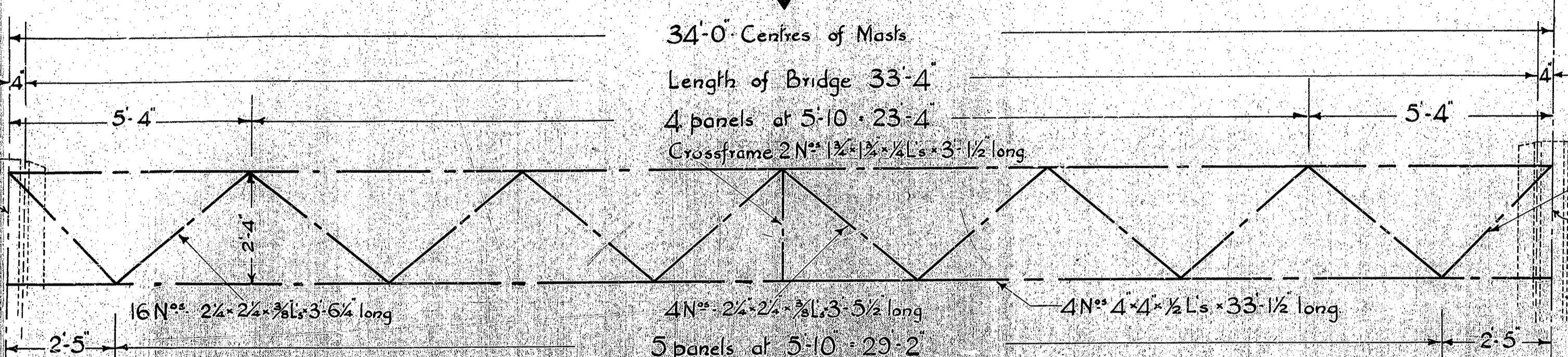
Drawer No
 B-32-43

PLAN No
 762/52



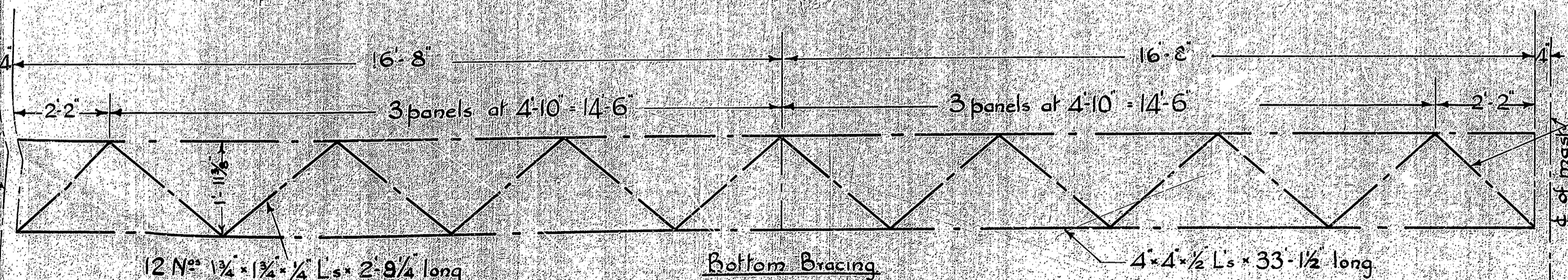
Top Bracing
VIEW A

A



ELEVATION

B



Bottom Bracing
VIEW B

Scale 1/2" = 1'-0"

NOTE

All details for this Bridge to be similar to those for Bridge Type S2A shown on Plan N° 762/52.

V. R.

OVERHEAD ELECTRIFICATION

BRIDGE TYPE S2D

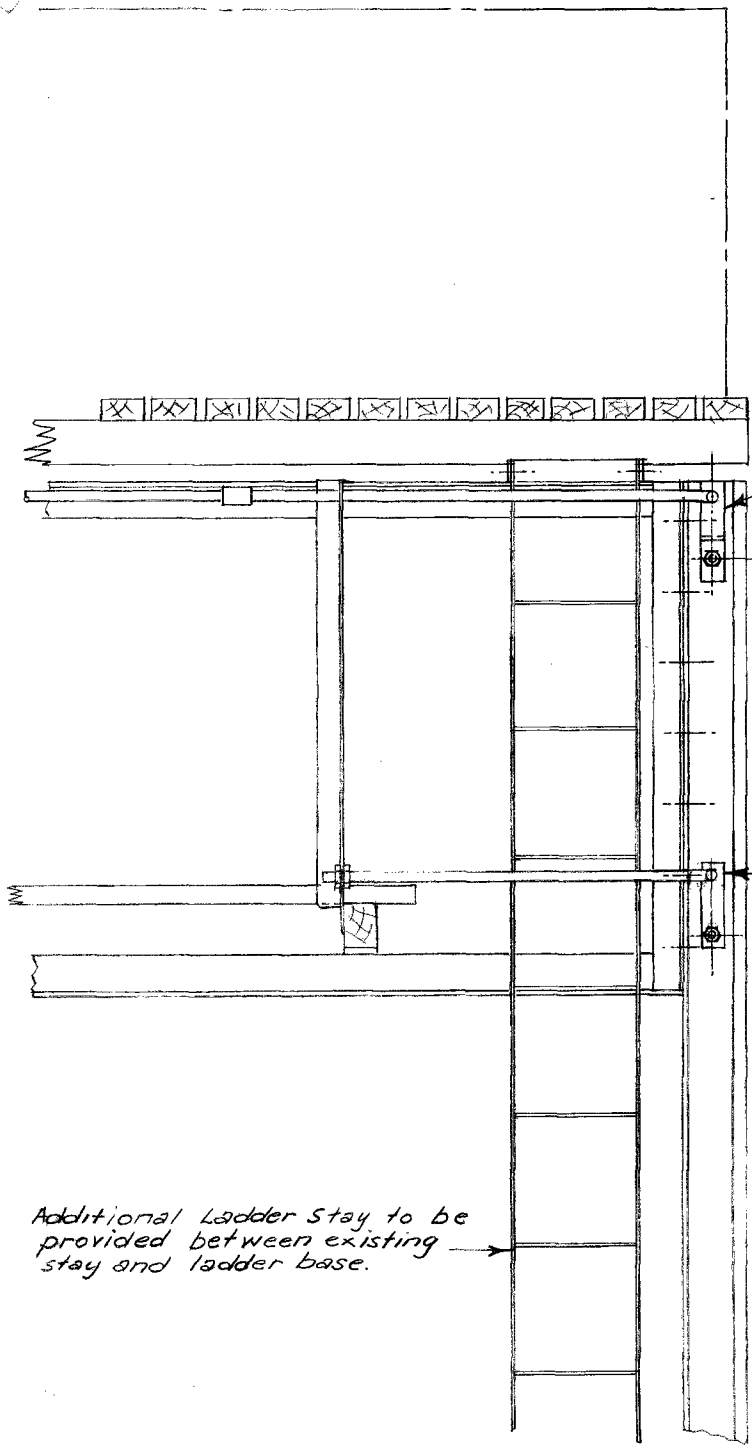
FOR COMBINED SIGNAL AND OVERHEAD STRUCTURE

R. R. 99 50
Chief Civil Engineer

Amended By	Date	Amendment	Drawn V.S.de.K.	Traced V.S.de.K.	Checked K.W.W.	Correc. N°	Engineer Struct. Design.

Drawer PLAN N°
C-32-35 833/58

Ladder to be suitably fixed at top of Bridge.

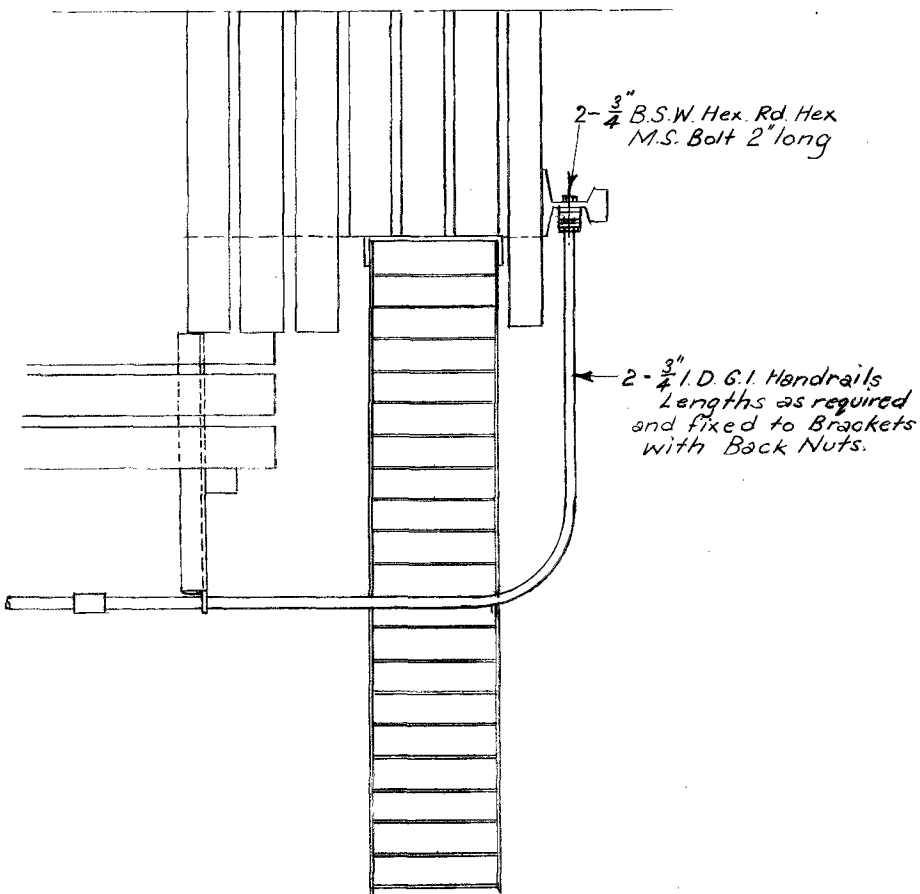
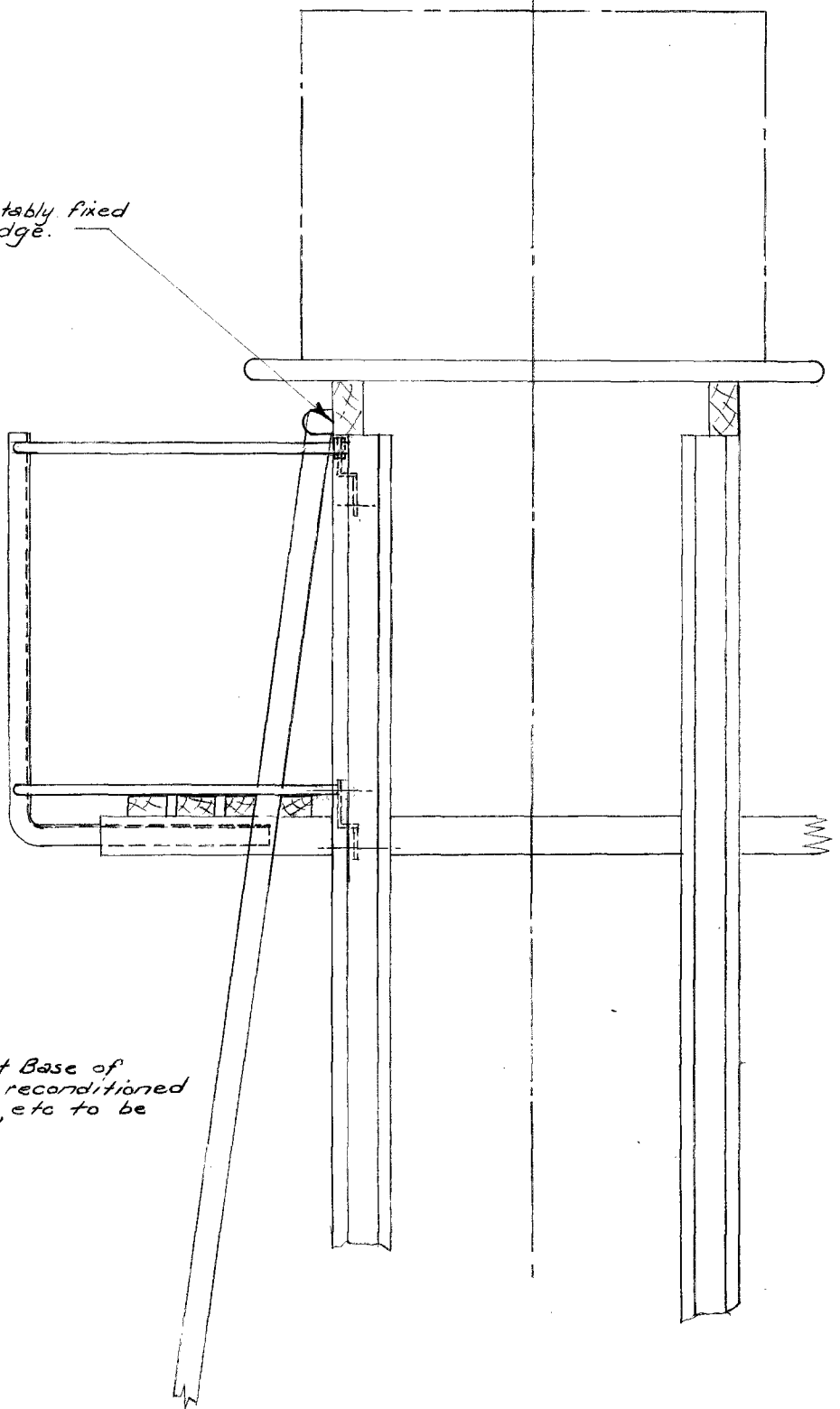


Detail "A"

Detail "A"

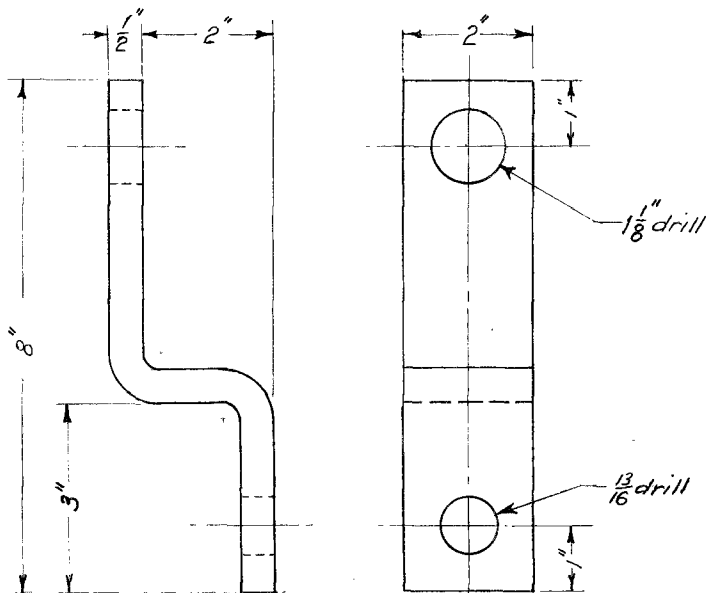
Additional Ladder Stay to be provided between existing stay and ladder base.

Note. Landing at Base of Ladder to be reconditioned & missing bolts, etc to be replaced.



2- $\frac{3}{4}$ " B.S.W. Hex. Rd. Hex M.S. Bolt 2" long

2- $\frac{3}{4}$ " I.D. G.I. Handrails Lengths as required and fixed to Brackets with Back Nuts.



M.S. Bracket Detail "A"

Reference Drawings. R.K3 B423.

FLINDERS ST "A"
Signal Bridge at
Market Street.

Drawn by
I.B.

Sig. Design
Engineer

SKETCH
K12

821.

3-10-67

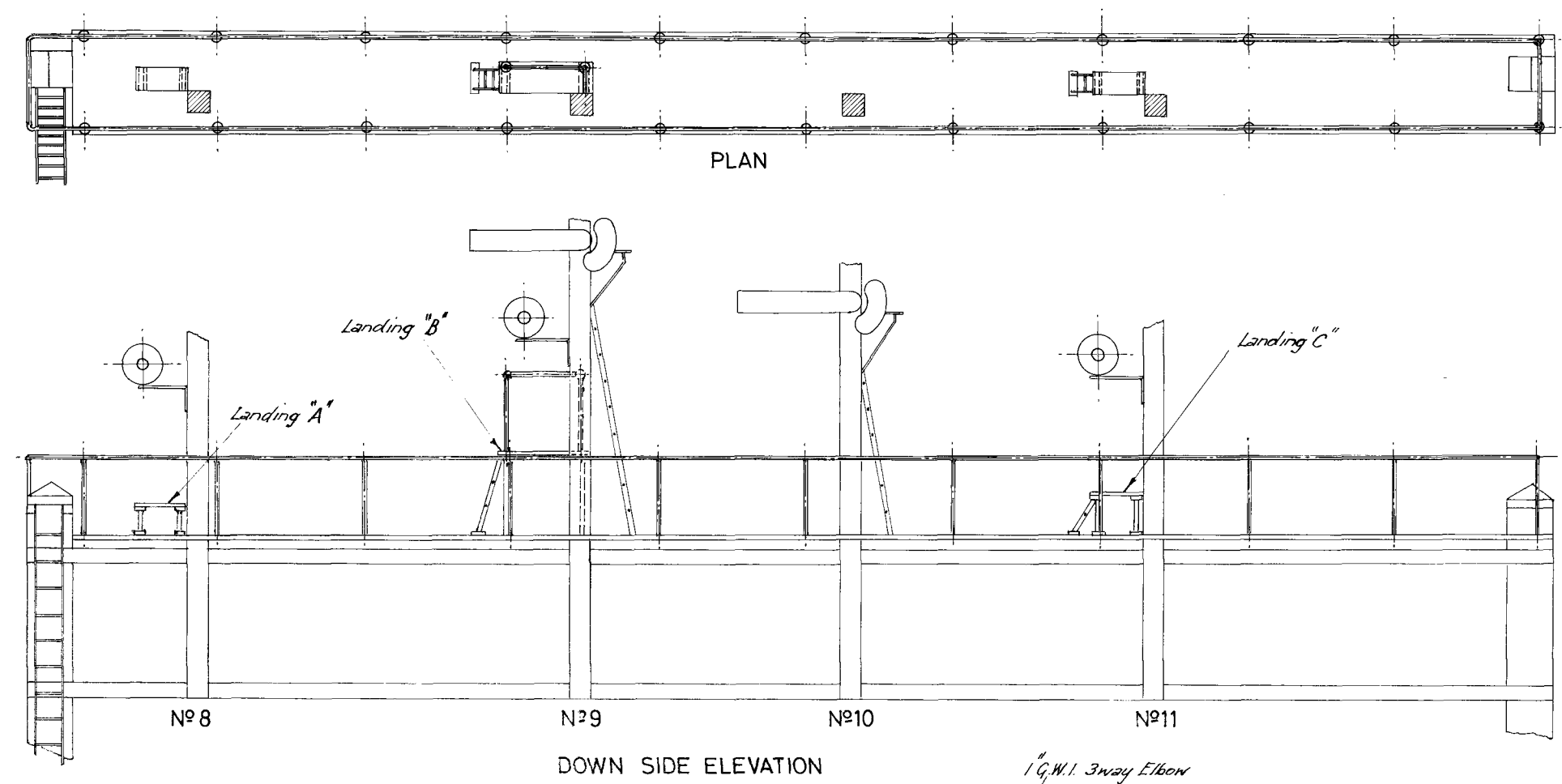


FRANKSTON
UP END
COMBINED SIGNAL BRIDGE & STRUCTURE
SERVICE LANDINGS

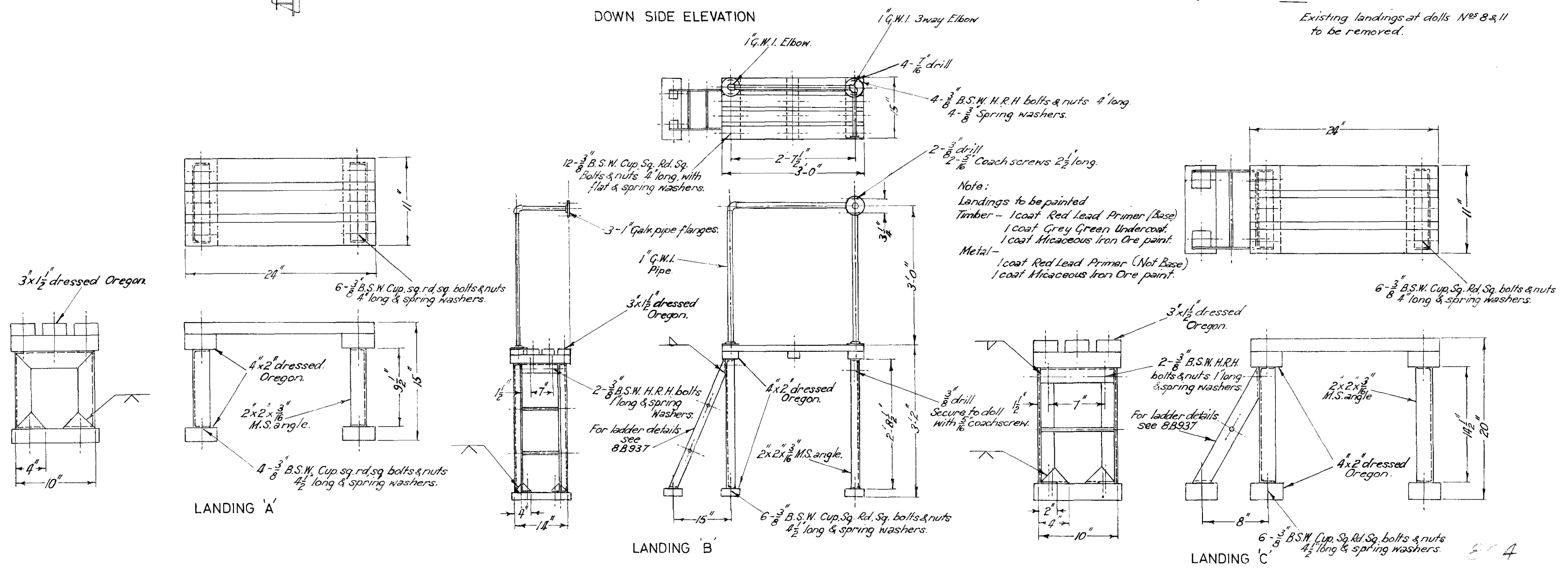
F.R.V.
22-12-68

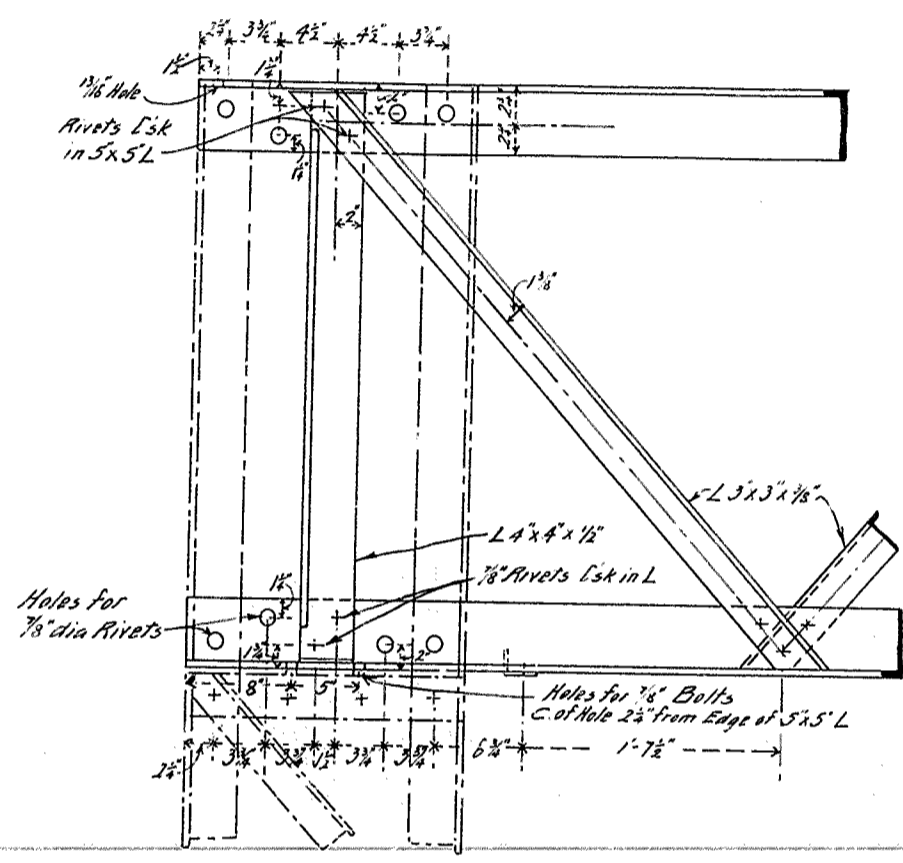
SKETCH 864

Scale: 1/4" = 1'-0"



Note -
Existing landings at dollies N°8 & 11
to be removed.





V.R.
10/19/16

— V.R. —
— E. of M.S.R. —
AMENDED END DETAIL OF
VIADUCT SIGNAL BRIDGE.

Scale 1" = 1'-0"

NOTE: Attach this drawing to drawings No. 701 & 723.

2187.16

E 326

31

