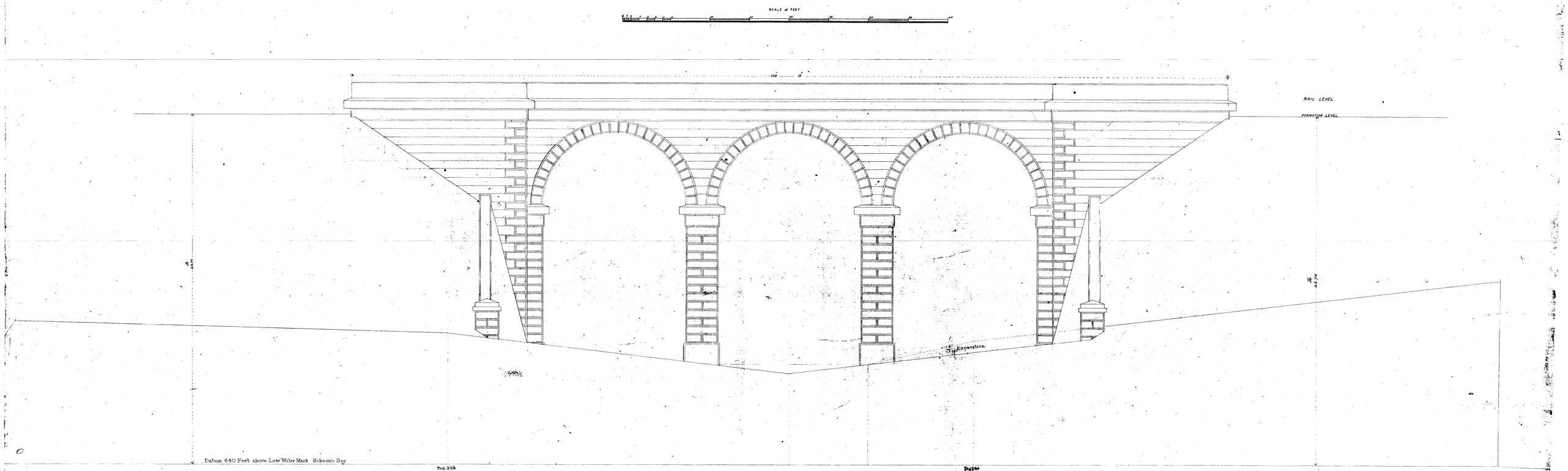
VICTORIAN RAILWAYS,

MELBOURNE, & RIVER MURRAY RAILWAY.

CONTRACT No. 17.
DRAWING No. 35.

28

VIADUCT OVER CREEK
AT
18. 74. 00.



ELEVATION.

Cornish & Bruce
14th October 1858.

Witness
R. Adams.

Geo. C. Darlyhill

VICTORIAN RAILWAYS PLAN ROOM OCT 26 1926

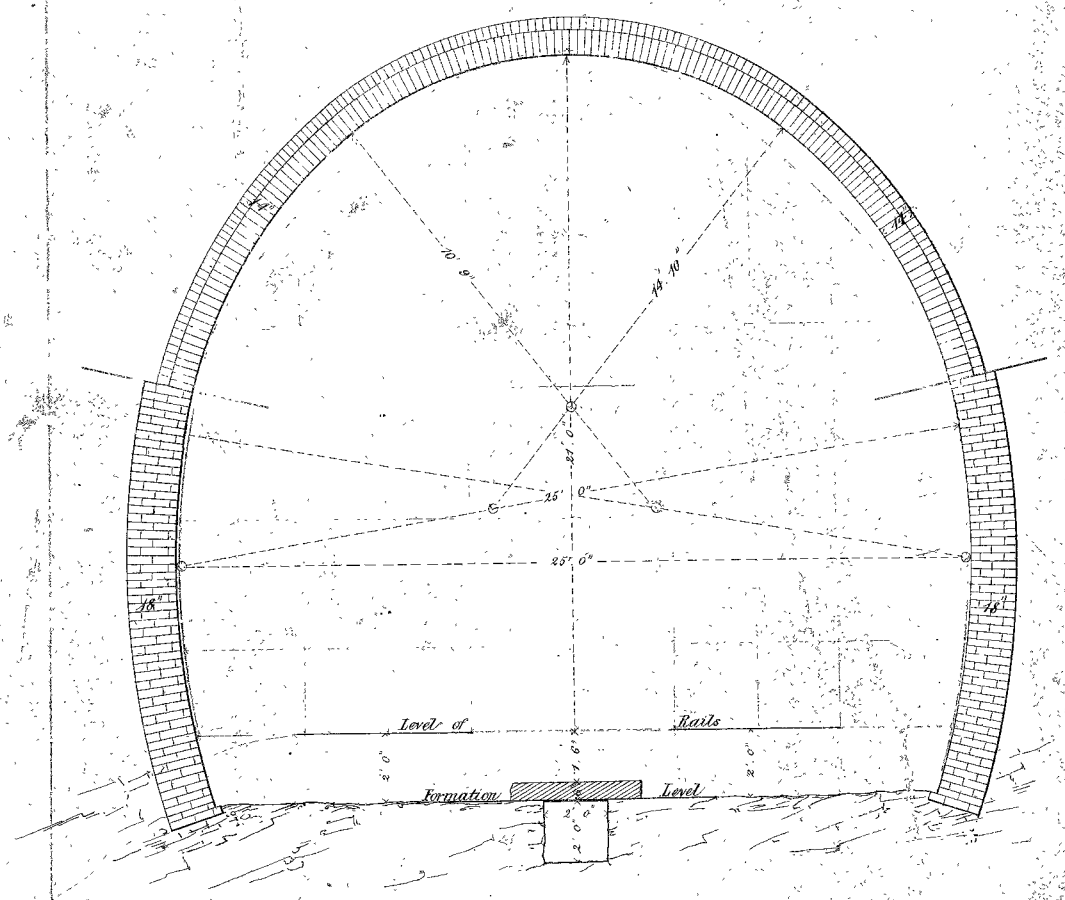
26

58/59

MELBOURNE & RIVER MURRAY RAILWAY.

CROSS SECTION OF TUNNEL

CONTRACT No. 17.
SECTION No.



Schedule G.

Quantities in one Yard forward	yds	dec	
Brickwork in Cement to Arch	4	4	0 yds
Do. Do. Side Walls	4	7	"
Excavation	64	0	" "

NOTE. The internal dimensions will be adhered to, but the external dimensions may be increased or decreased, accordingly as the Walls or Arch may be increased, decreased or omitted.

Scale

Railway Department, Victoria Novr 5th 1859

C Mason lith.

RECORD COPY
(PLAN ROOM)

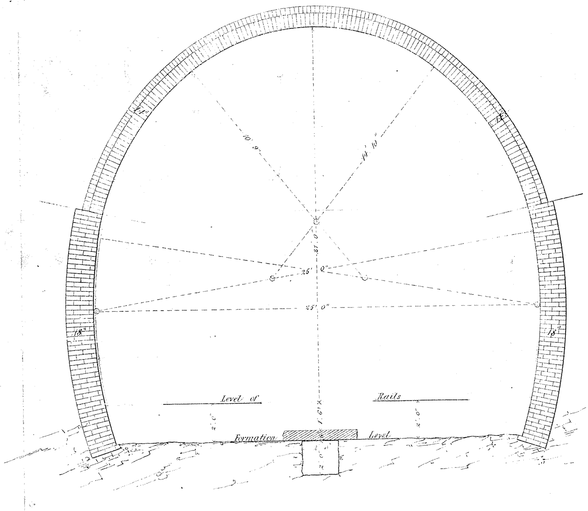
VICTORIAN RAILWAYS

58/59

MELBOURNE & RIVER MURRAY RAILWAY.

CROSS SECTION
OF TUNNEL

CONTRACT No. 17.
SECTION No.



389·7 Long

Schedule G.

	Quantities in one Yard forward
	yds. dec.
Brickwork in Cement to Arch	4.4 c. yds
Do. Do. Side Walls	4.7 "
Excavation	64.0 "

NOTE. The internal dimensions will be adhered to, but the external dimensions may be increased or decreased; accordingly as the Walls or Arch may be increased, decreased or omitted.

RECORD COPY
(PLAN ROOM)

Scale

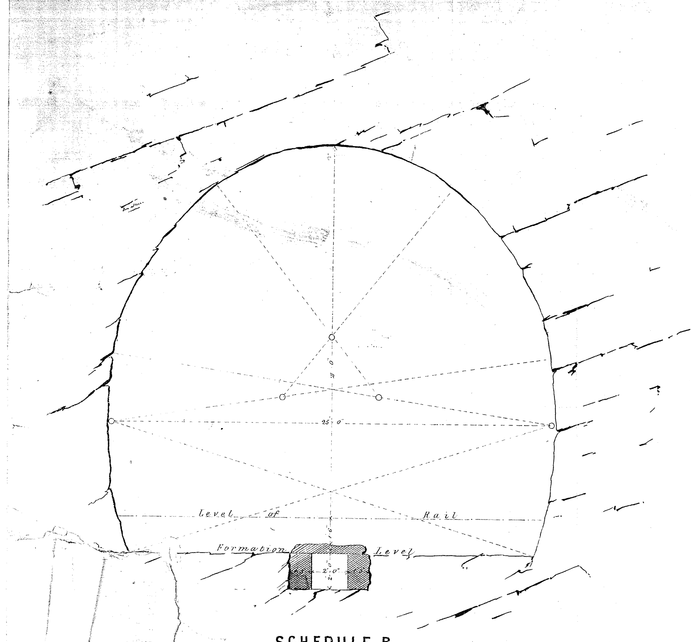
Railway Department Victoria Novr. 5th 1859
C. Moren lith.

VICTORIAN RAILWAYS
7 May 57
9/589/1

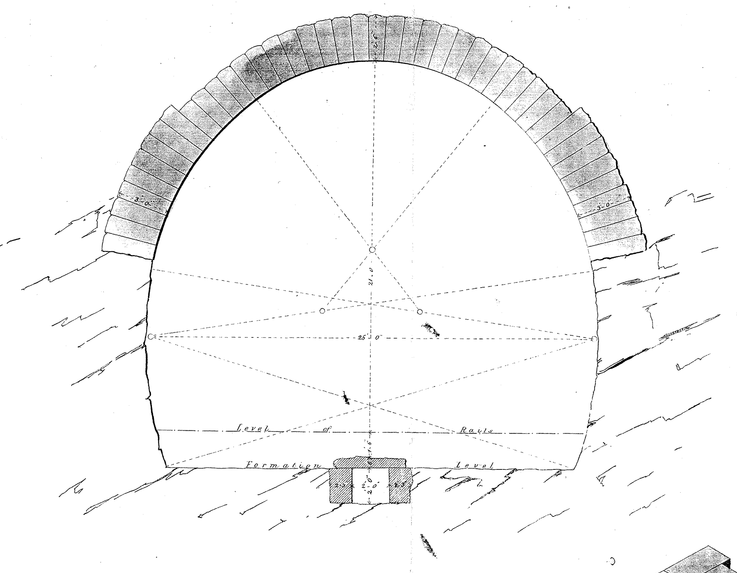
VICTORIAN RAILWAYS.

DETAILS OF TUNNELS.

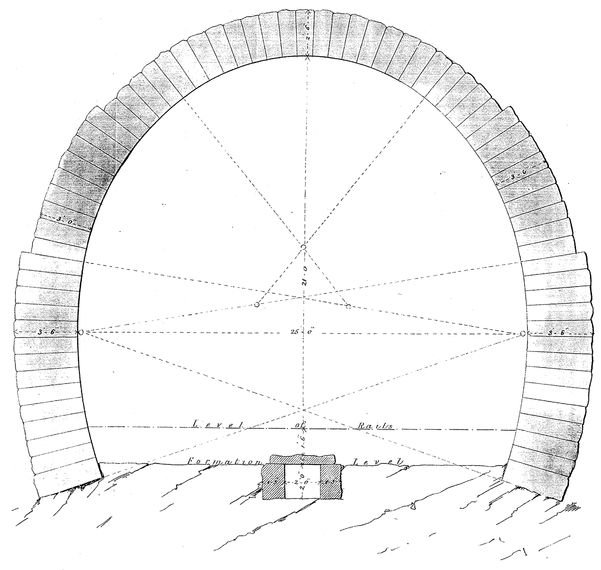
Scale 1/4 inch to a foot



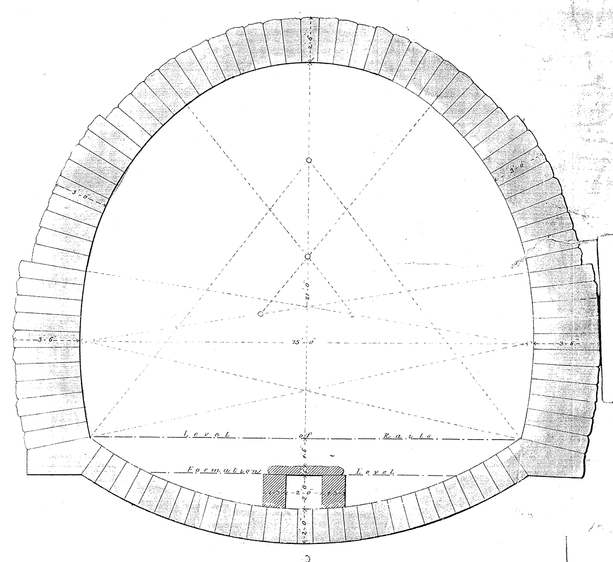
SCHEDULE B.



SCHEDULE C

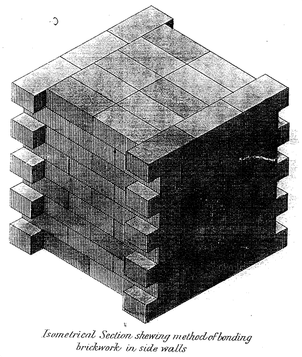


SCHEDULE D.



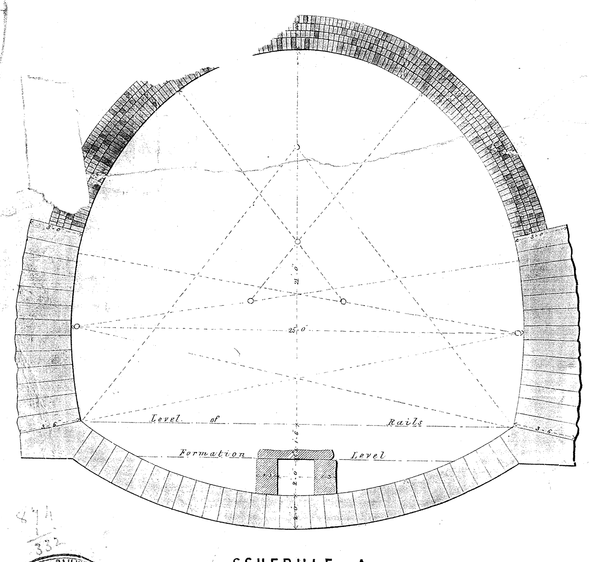
SCHEDULE E.

PLAN ROOM

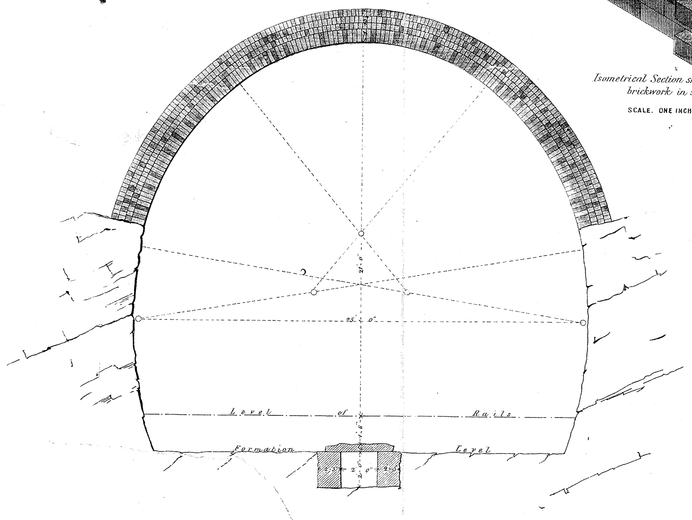


Isometrical Section shewing method of bonding brickwork in side walls

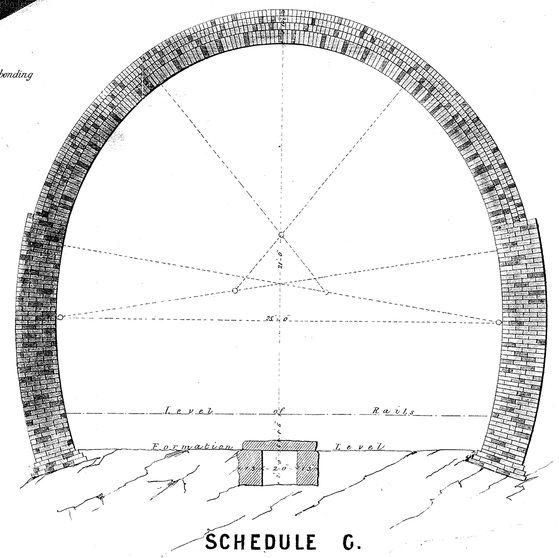
SCALE. ONE INCH TO A FOOT



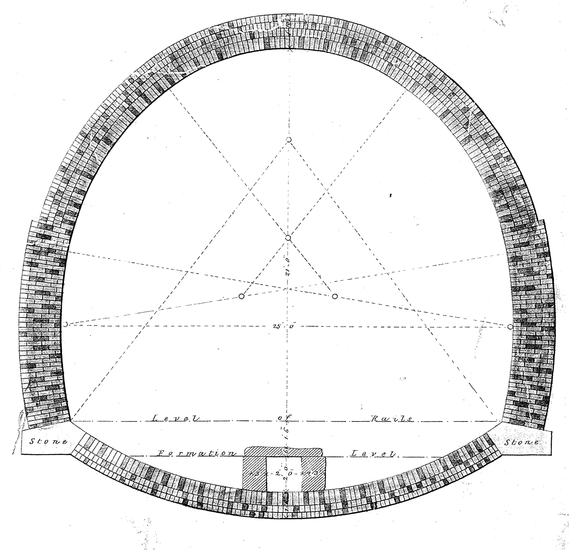
SCHEDULE A.



SCHEDULE F.



SCHEDULE G.



SCHEDULE H

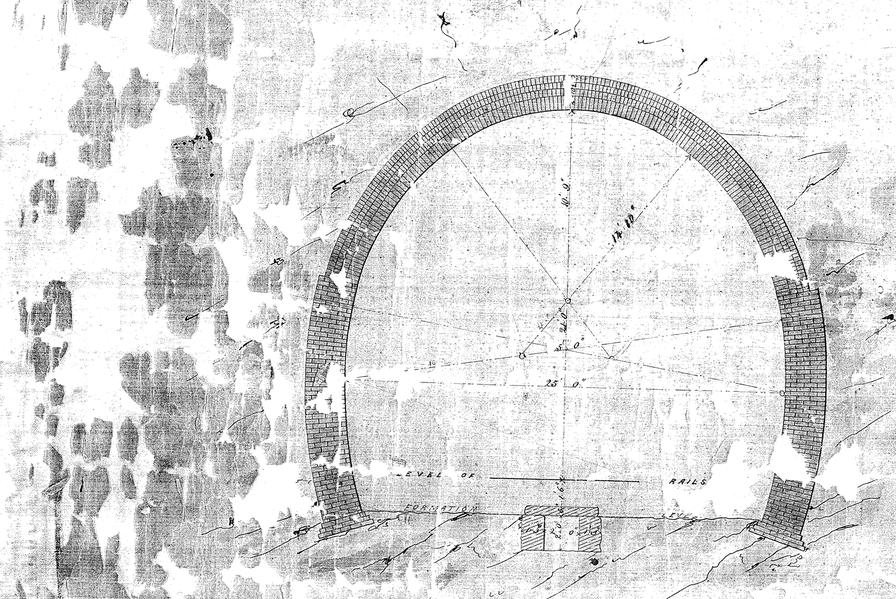
VICTORIAN RAILWAYS
PLAN ROOM
OCT 26 1928

TUNNEL SECTIONS.

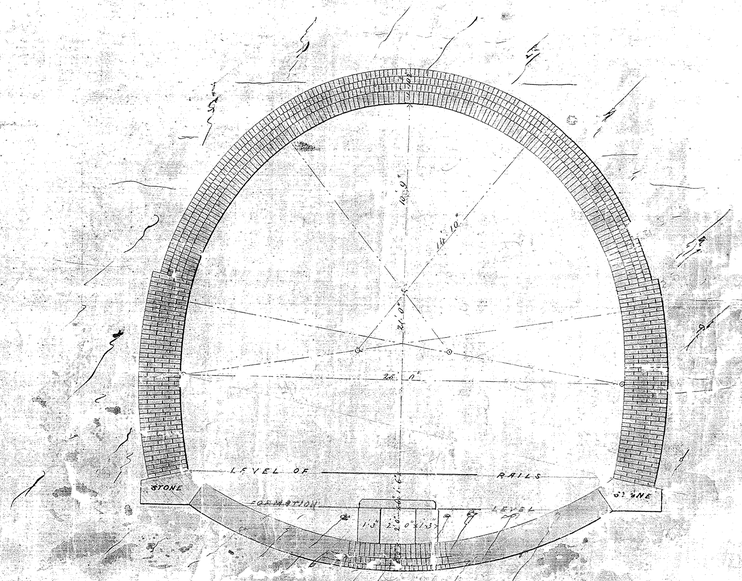
VICTORIAN RAILWAYS,

MELBOURNE & RIVER MURRAY RAILWAY.

CONTRACT, Nº 17.
DRAWING, Nº



SCHEDULE . G.



SCHEDULE H.

Scale 4 feet to an inch

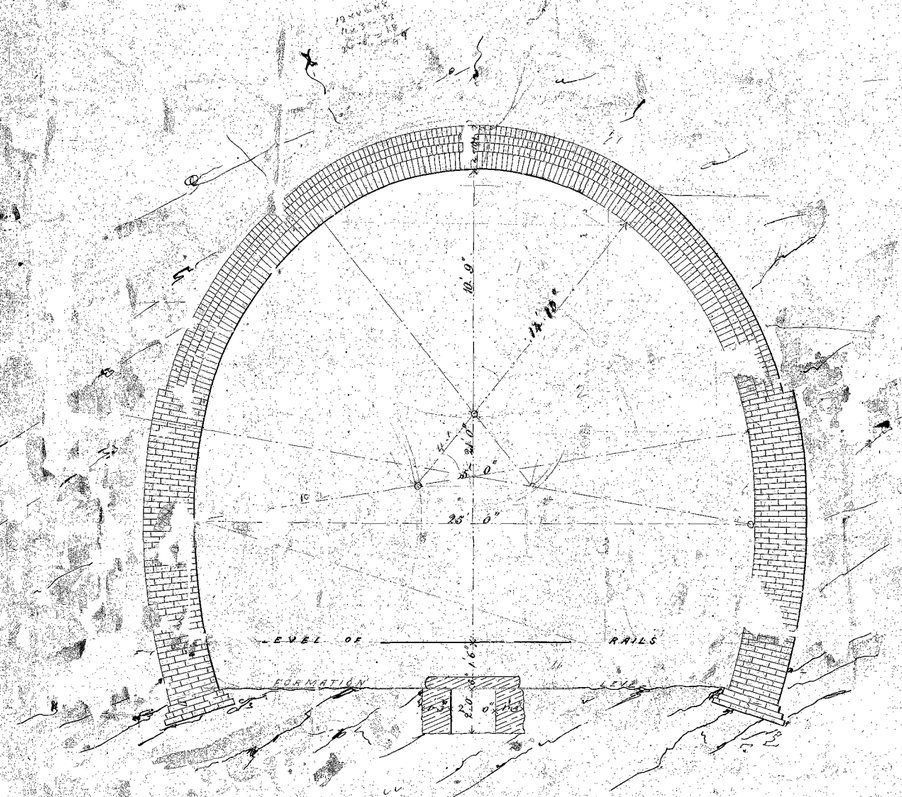
RECORD COPY
(PLAN ROOM)

TUNNEL SECTIONS.

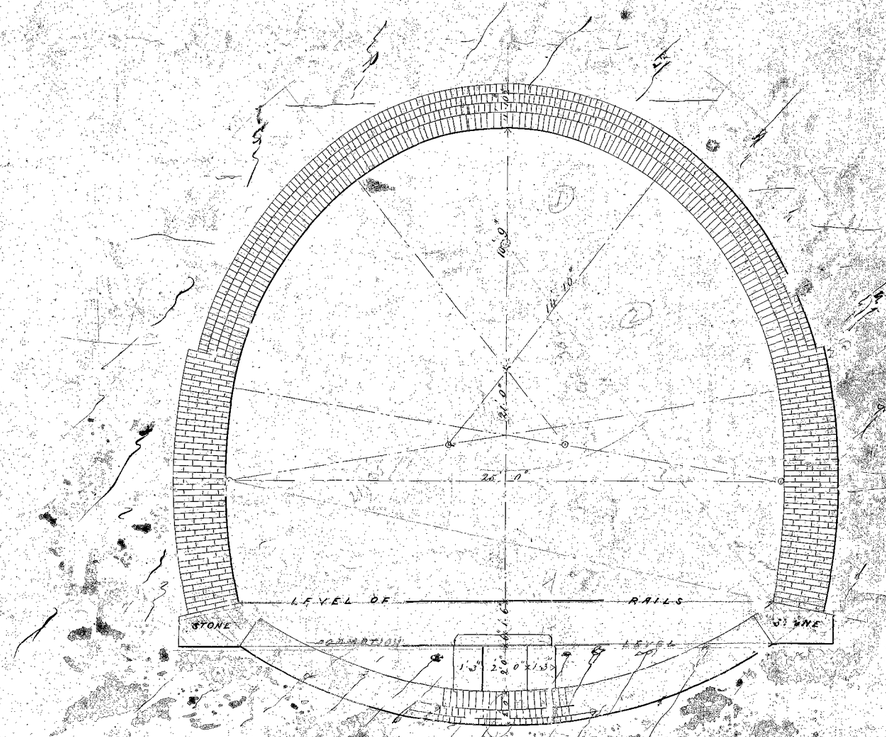
VICTORIAN RAILWAYS.

MELBOURNE & RIVER MURRAY RAILWAY.

CONTRACT, Nº 17.
DRAWING, Nº



SCHEDULE . G.



SCHEDULE. H.

Scale 4 feet to an inch

VICTORIAN RAILWAYS
RECEIVED COPY
(Plan No.)

65/59

Centre of Gully

B.M. XXVIII. 1199.67 on gum tree 1 Chain Right of Line at 15m. 38c. 20L

B.M. XIX. 1503.87 on Stringybark tree on Summit of Big Hill

Shaft

B.M. XXX. 1477.05 On Stringybark tree 66 Links Left of Line at 16m. 24c. 30L

B I G H I L L

M&R.M. RAILWAY

SECTION No 12

BIG HILL TUNNEL

Cutting No. 186.

Base 331ft. – Slopes 1½ to 1

T U N N E L

Cutting No. 186a.

Base 331ft. – Slopes 1½ to 1

Centre of Gully

Mr Robsons Levelling Book 336 Page 1

1 IN 50.3

Constant 1.3116 ft per ch.

1 IN 105.9

Constant .6228 ft per ch.

1 IN 56

Constant 1.1785 ft per ch.

Ch. of Gradient 112.16

Ch. of Gradient 131.66

98m 58c. 69L through mileage

Datum Line 1000 ft above L.W.M. Hobsons Bay

15M 68C. 7 16M. 10 20 30 40 16M. 42C.

Rise 102.63L

Rise 21.64L

90m 32c. 69L through mileage

Railway Department Victoria, Nov.r 22nd. 1859 J. Moors Delt.

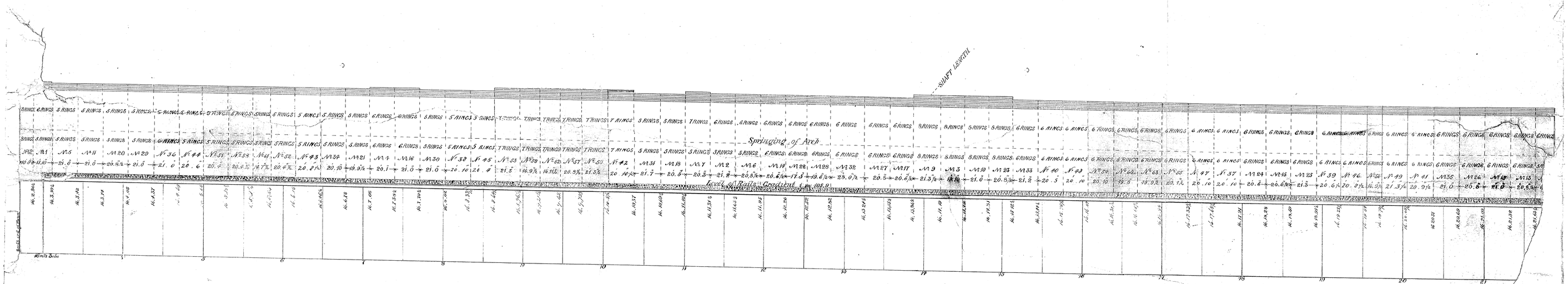
VICTORIAN RAILWAYS
8 Dec 87
RECORD COPY
(PLAN ROOM)

BIG HILL TUNNEL

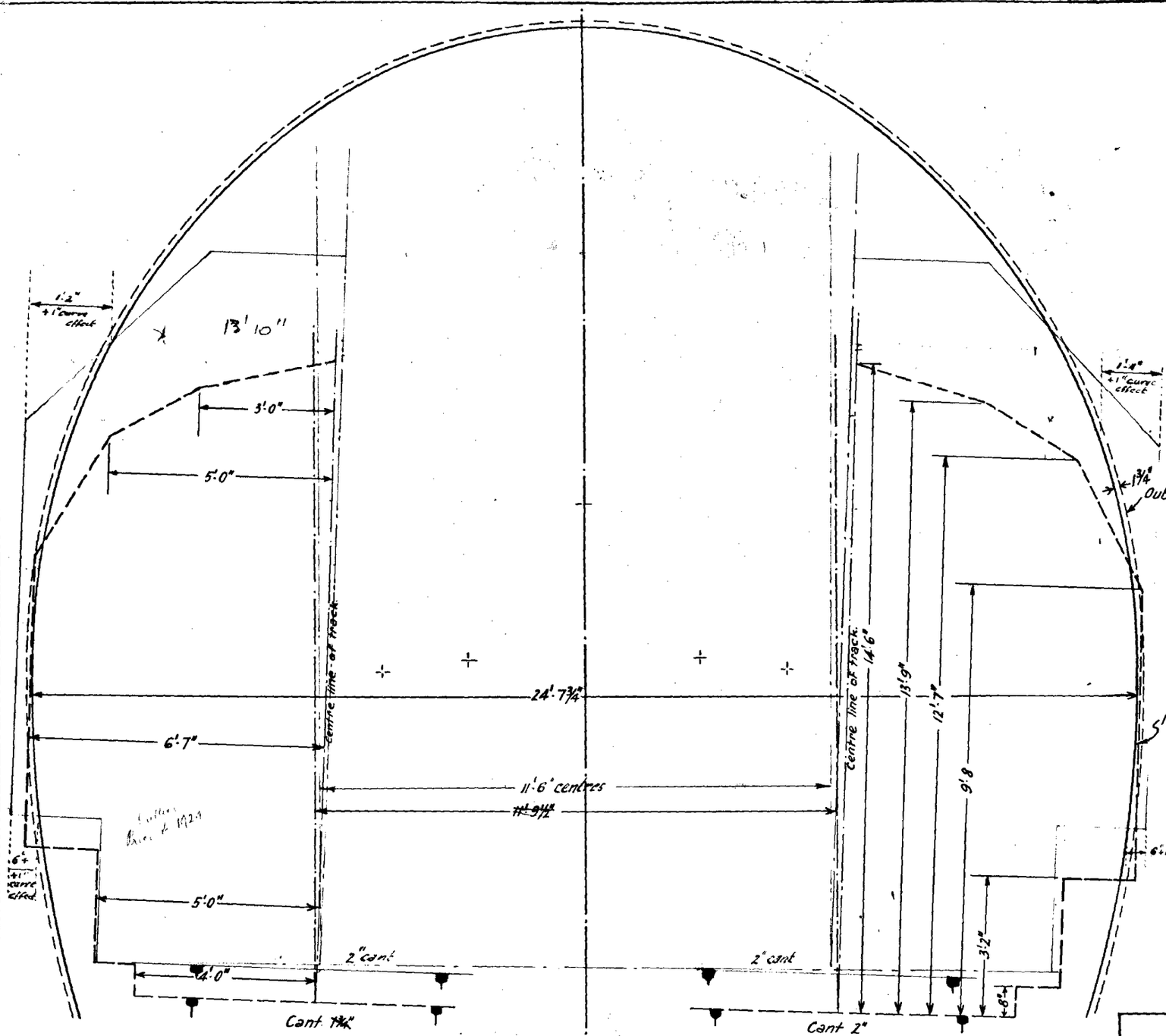
— BIG-HILL-TUNNEL —
— FRONT —
VICTORIAN RAILWAYS,
MELBOURNE & RIVER MURRAY RAILWAY.
CONTRACT, No 17
DRAWING, No
— ELEVATION —
— SECTIONAL-ELEVATION-OF-WING-WALLS —
— DEVELOPED —
— GENERAL-PLAN —
— OVER-PARAPET —
— UNDER-FRIEZE —
— SCALE-FOUR-FEET-TO-THE-INCH —
— OVER-FOOTINGS —
— SECTIONS-OF-DRAIN —
— AT-M.N —
— AT-N.O —
— SECTIONS-OF-WING-WALLS —
— AT-A-B —
— AT-G-H —
— AT-E-F —
— AT-C-D —
— AT-I-J —
— SECTION —
Block in course margin drafted and rock faced
Cut stone
Parapet
Concrete
Gradient 1 in 50.3
CORD COPY
LAN ROOM)
BIG HILL TUNNEL

M. AND S. RAILWAY

LONGITUDINAL SECTION OF BIG HILL TUNNEL SHEWING EACH LENGTH OF BRICKWORK AND THE NUMBER OF 4½ IN RINGS IN WALLS & ARCH



VICTORIAN RAILWAYS
RECORD COPY
(PLAN ROOM)



Note:- Outline shown is to tooled edge of masonry. Rough face of masonry projects ¼" inside this outline. Brickwork in tunnel proper is set back 1¾" on outside of this outline.

Alignment curve to R 60 chains radius.

"DOWN" TRACK

"UP" TRACK

CLEARANCE DIAGRAM "UP" END OF TUNNEL

P1940†

V.R.

— SUNSHINE - BENDIGO —

Elphinstone Tunnel 71M50C00L

"UP" End Clearance Diagram

Chief Civil Engineer.

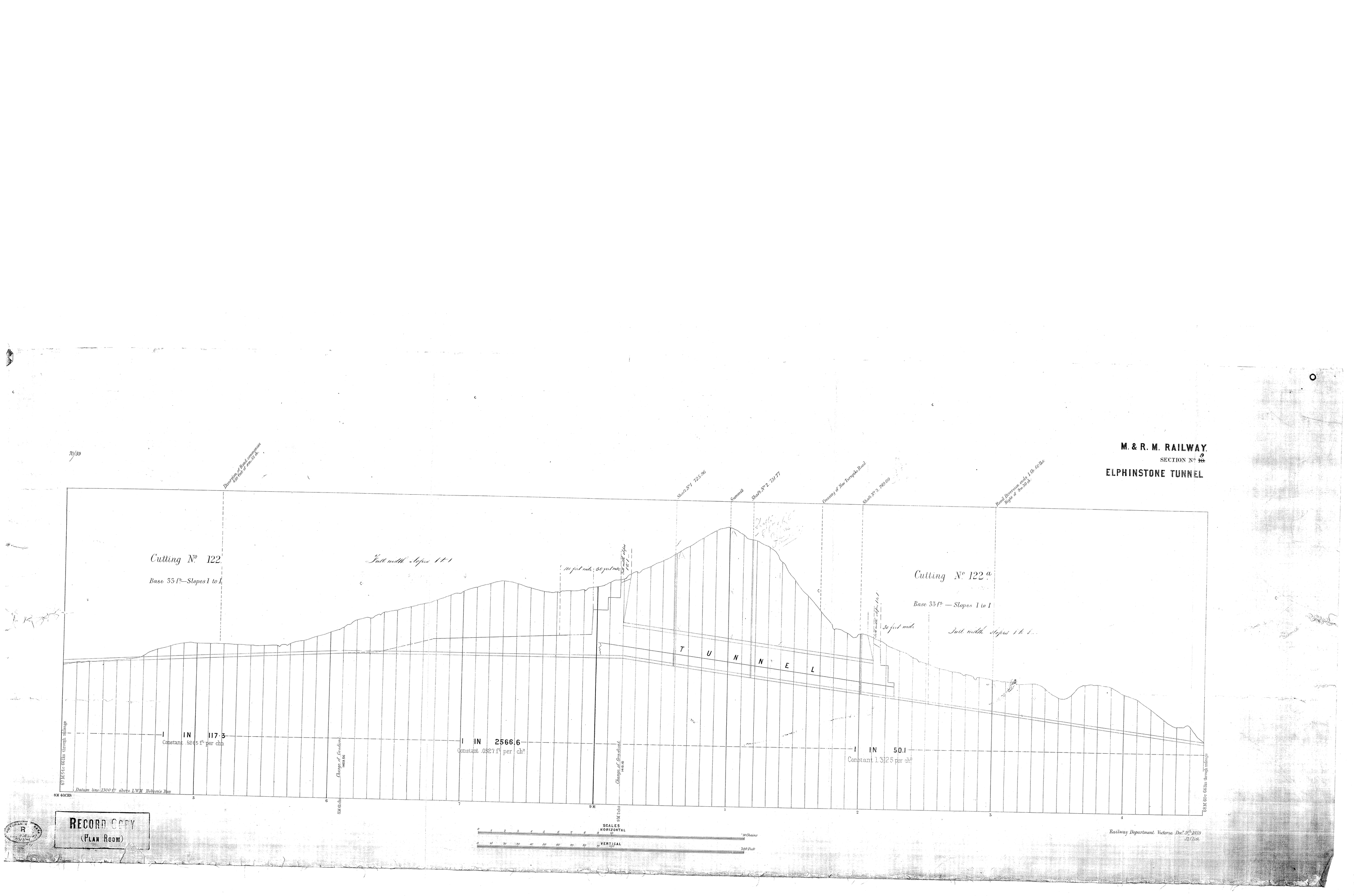
Drawn	Traced	Checked	Corres.	Eng. Struct'l Des.	D·30·94	PLAN No
M.F.C.	V.M.					804/49

70/59

M. & R. M. RAILWAY.

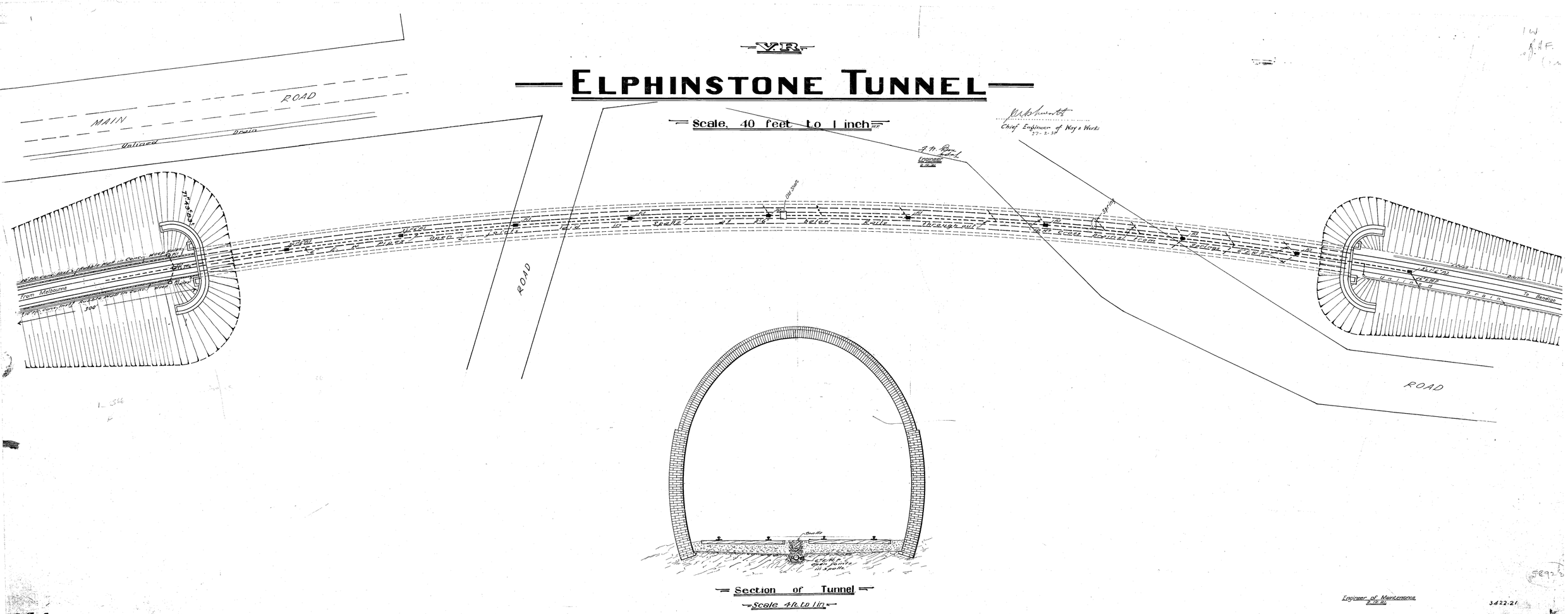
SECTION N° ~~10~~ 9

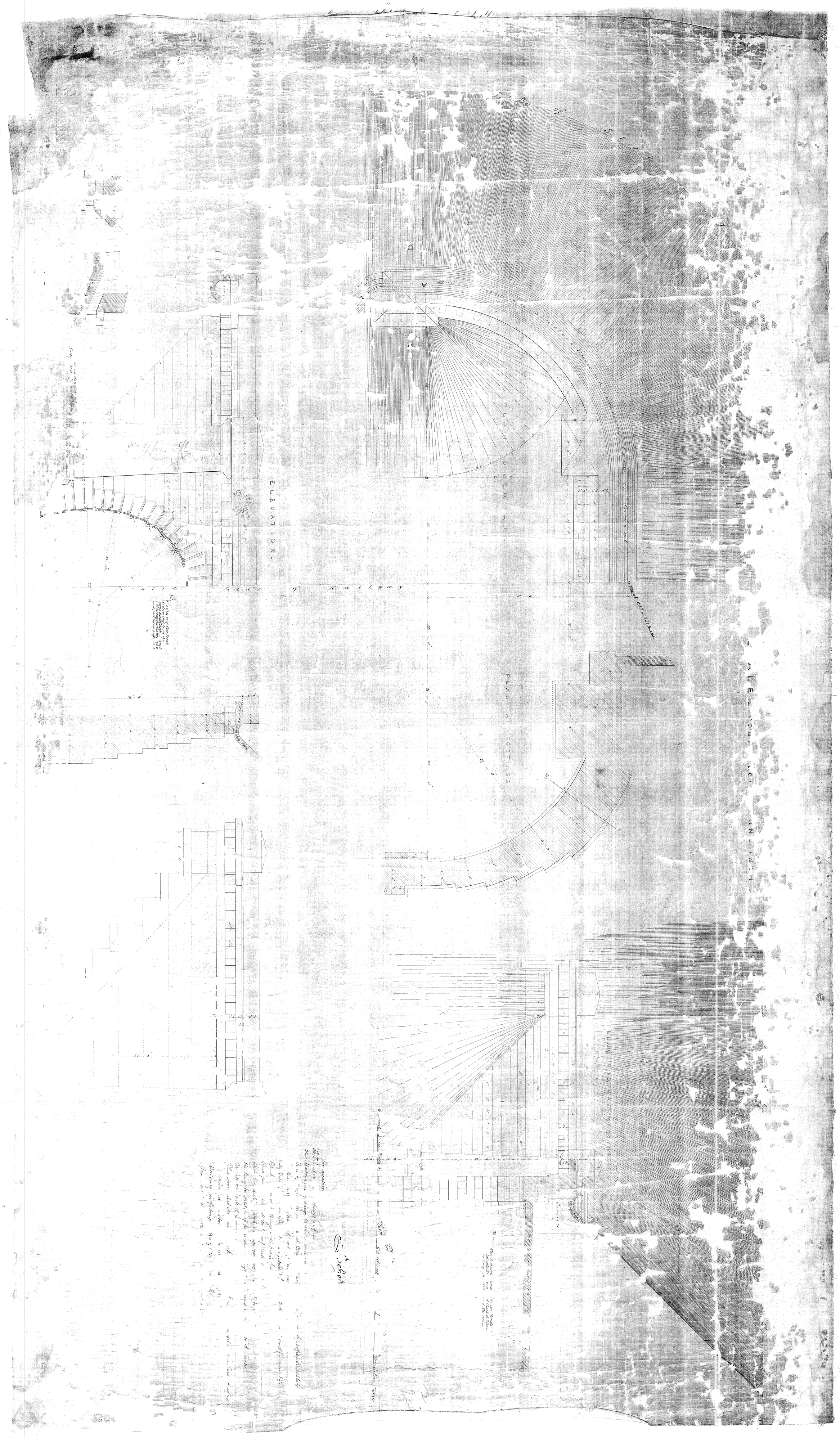
ELPHINSTONE TUNNEL



RECORD COPY
(PLAN ROOM)

Railway Department. Victoria. Dec.r 9th 1889
J.D.Pitt.


V.R.
ELPHINSTONE TUNNEL
Scale, 40 feet to 1 inch
Chief Engineer of Way & Works
27-2-30
MAIN ROAD
Unlined Drain
ROAD
From Melbourne
To Bendigo
Old Shaft
Spring
Section of Tunnel
Scale 4 ft. to 1 in.
Engineer of Maintenance
3422-21
354-1

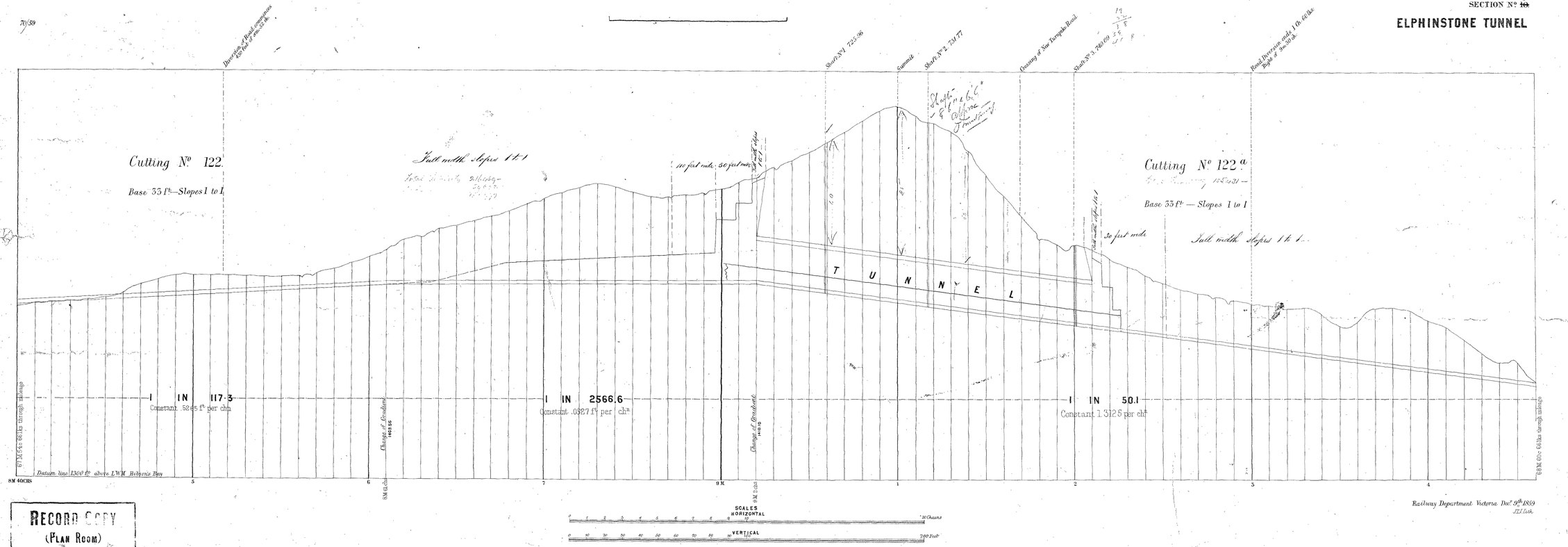


Line of Slope
ELEVATION
Centre Line of Railway
PLAN OVER
PLAN AT FOOTINGS
LONGITUDINAL SECTION

M. & R. M. RAILWAY.

SECTION No. ~~10~~ 9

ELPHINSTONE TUNNEL



Railway Department Victoria Dec.r 9th 1859
J.T.J. Lith.

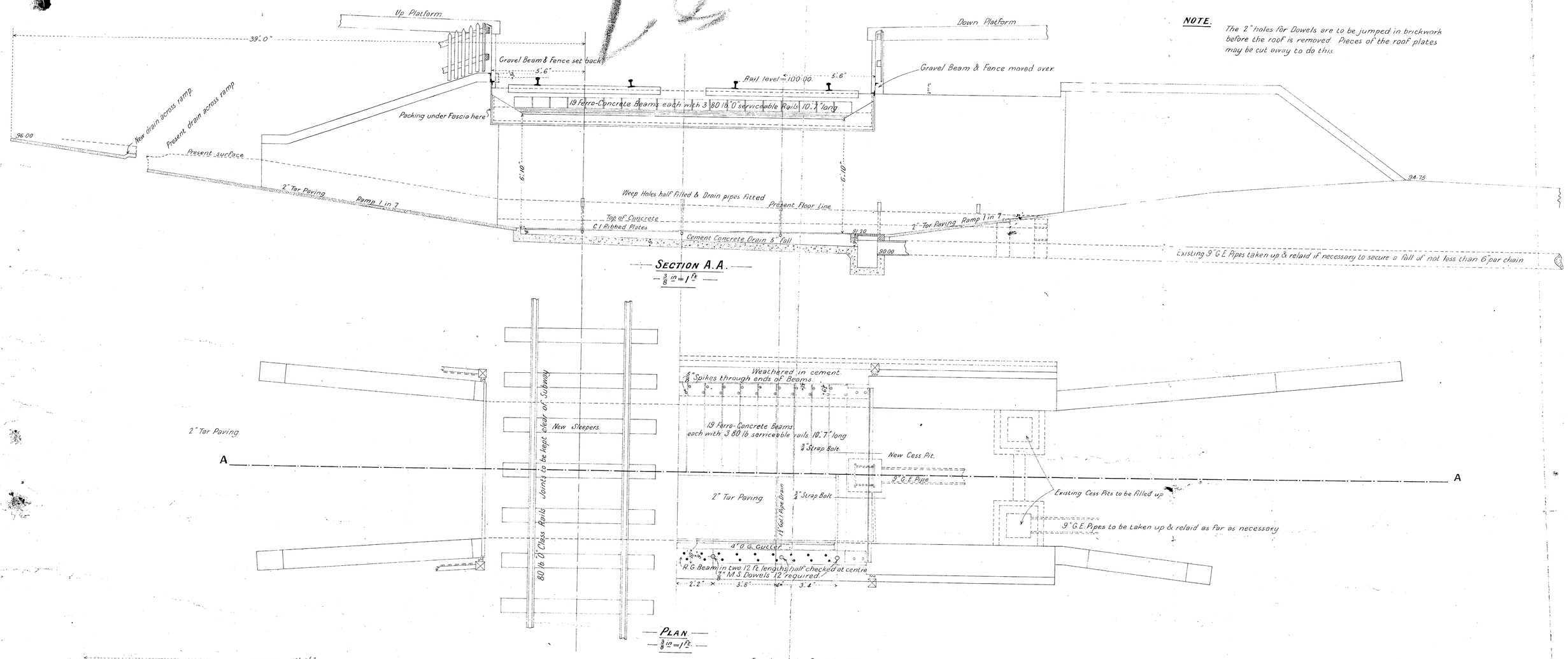
RECORD COPY
(PLAN ROOM)

V.R.

GOLDEN SQUARE SUBWAY.

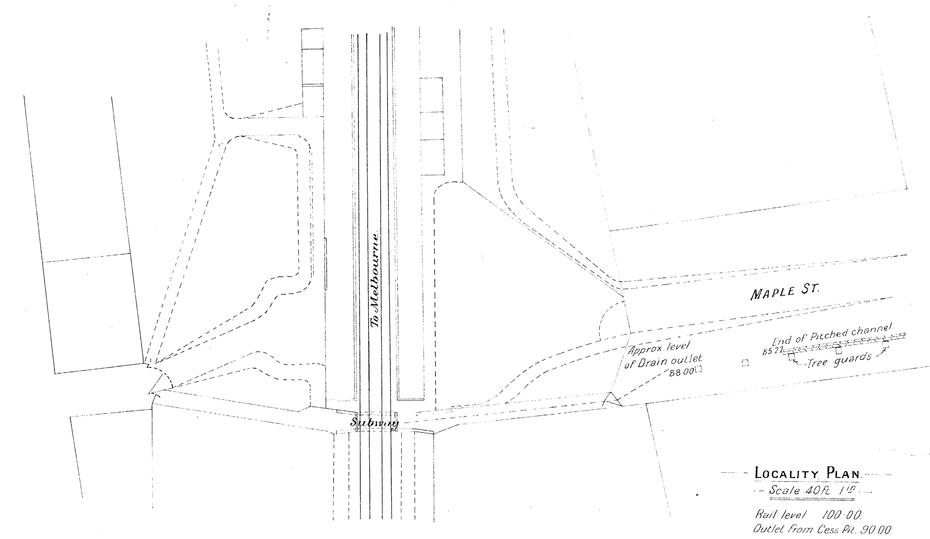
Plan showing Alterations.

SCALES 3/8", 1", 1½", & 3" = 1'0" & FULL SIZE

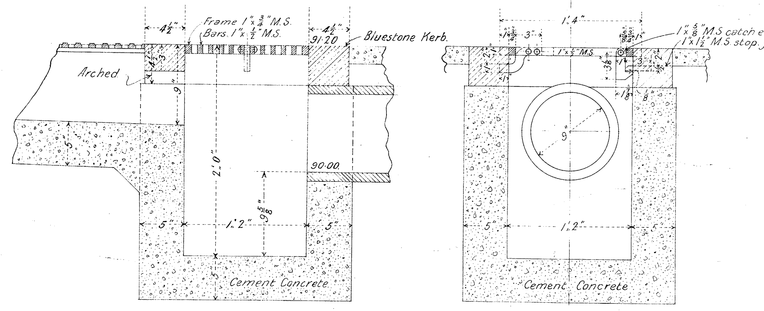


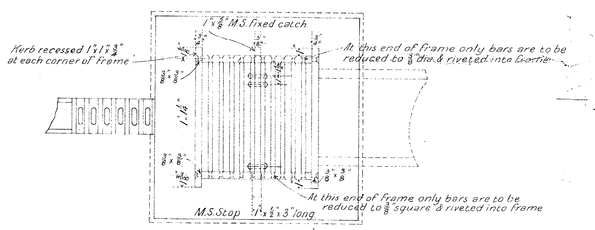
SECTION A.A.
3/8 12 = 1 ft

NOTE. The 2" holes for Dowels are to be jumped in brickwork before the roof is removed. Pieces of the roof plates may be cut away to do this.

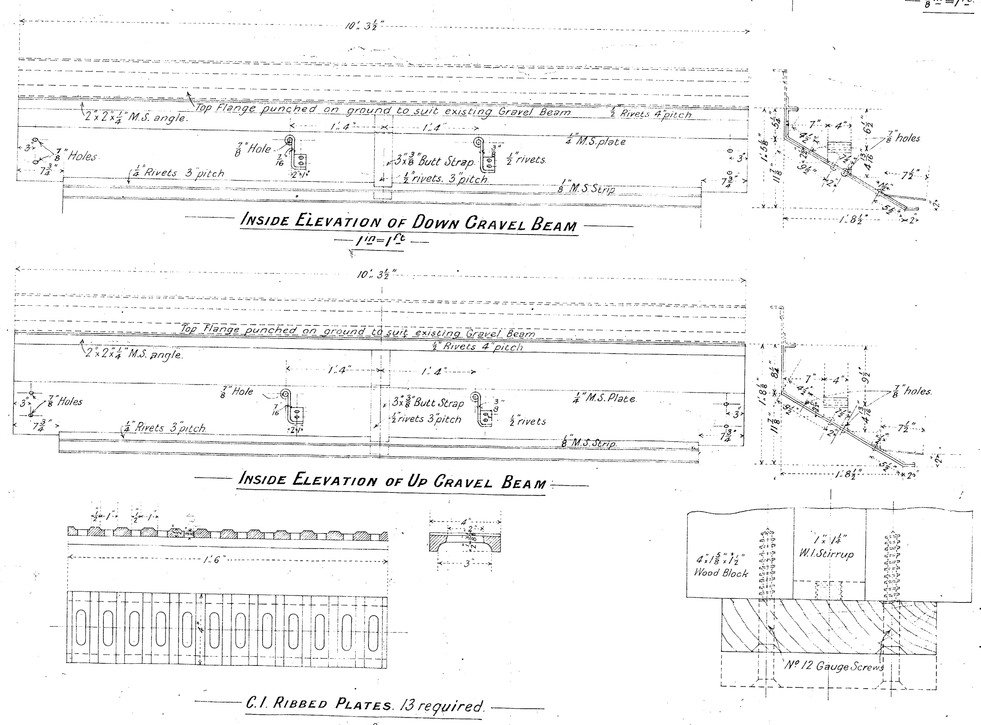


LOCALITY PLAN
Scale 40 ft. 1"
Rail level 100·00
Outlet from Cess Pit 90·00





DETAILS OF CESSPIT
1½ 10 = 1 ft

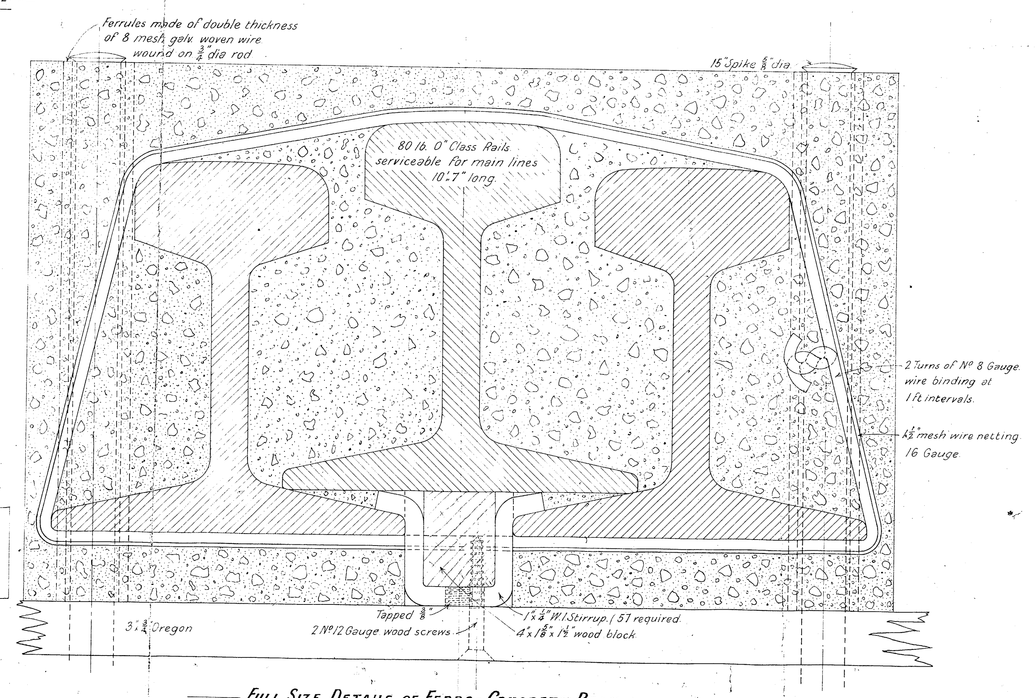


PLAN
3/8 12 = 1 ft

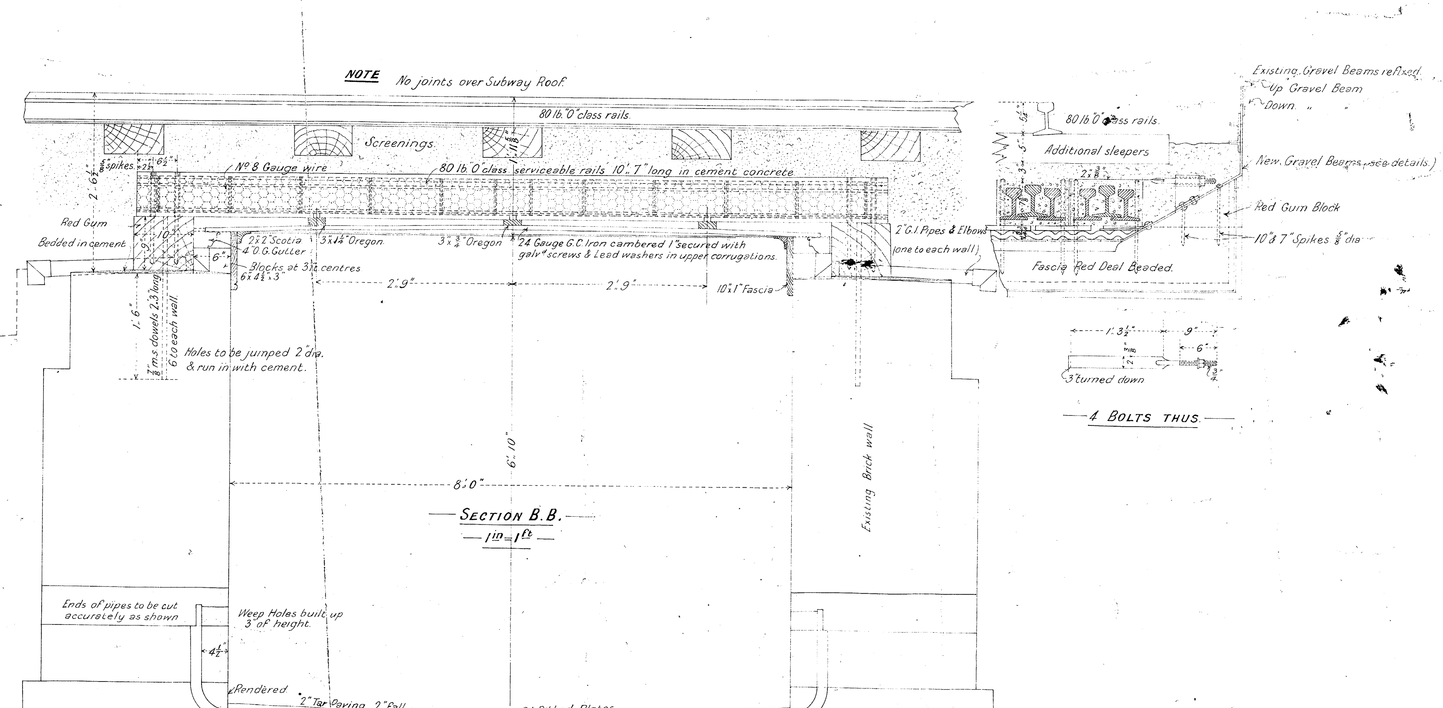
INSIDE ELEVATION OF DOWN GRAVEL BEAM
1 in = 1 ft

INSIDE ELEVATION OF UP GRAVEL BEAM

C.I. RIBBED PLATES. 13 required.
3/8 1 ft



FULL SIZE DETAILS OF FERRO-CONCRETE BEAM



4 BOLTS THUS

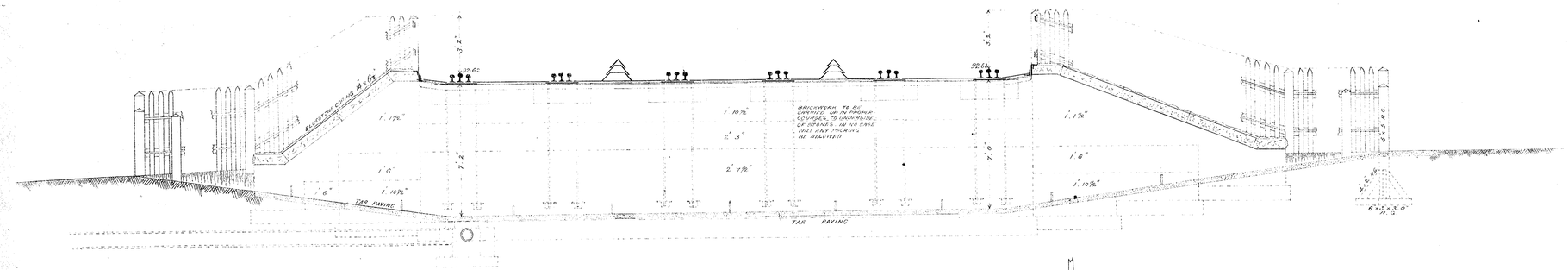
TRACE FOR 20 C
EXD. TM A 20 C

VICTORIAN RAILWAYS

SANDHURST LINE

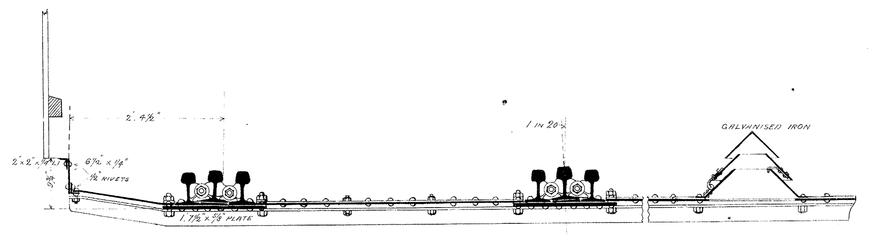
SUBWAY AT GOLDEN SQUARE STATION

CONTRACT Nº 4478
Nº

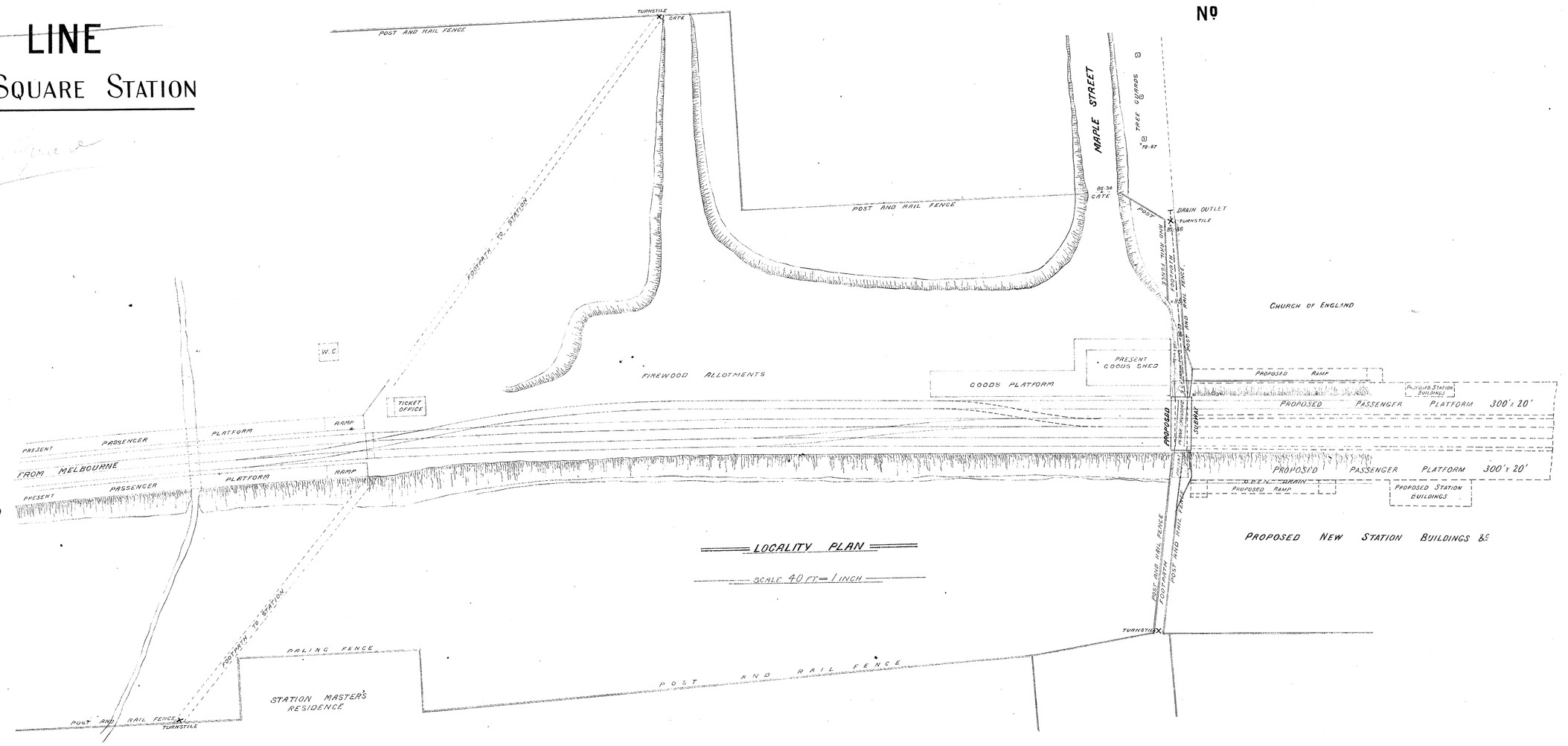


THE DEPTH OF THE FOUNDATIONS MAY VARY AS THE SUPT. OFFICER MAY DIRECT

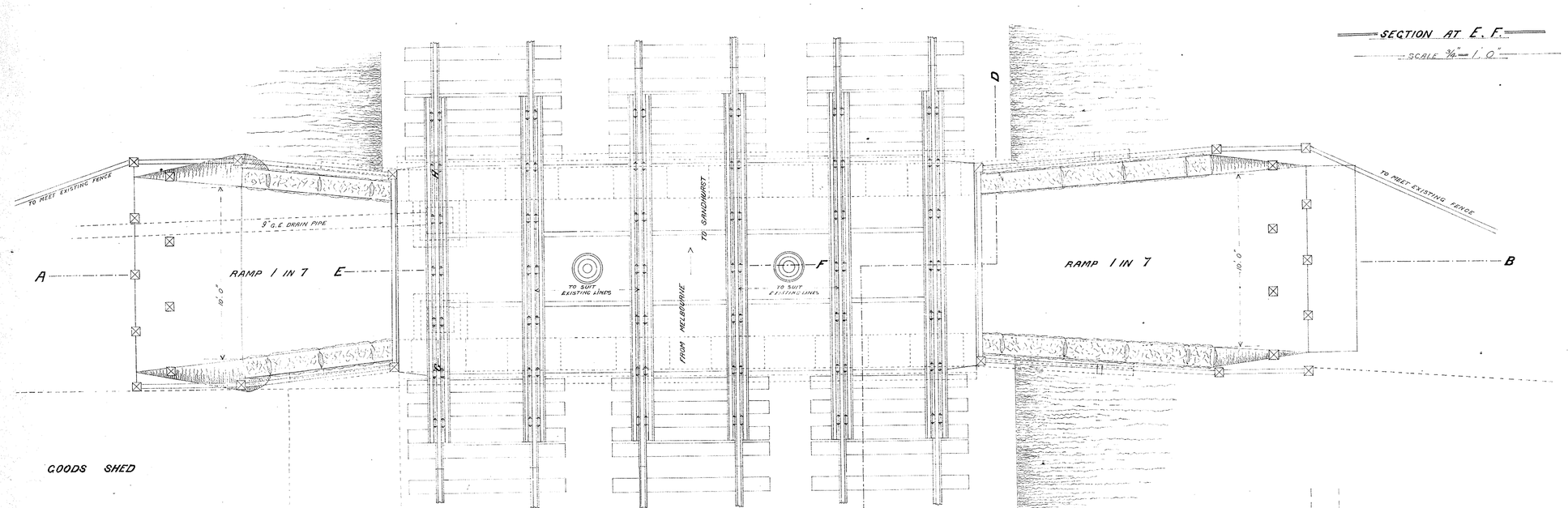
SECTION AT A. B.
SCALE ¾" = 1'.0"



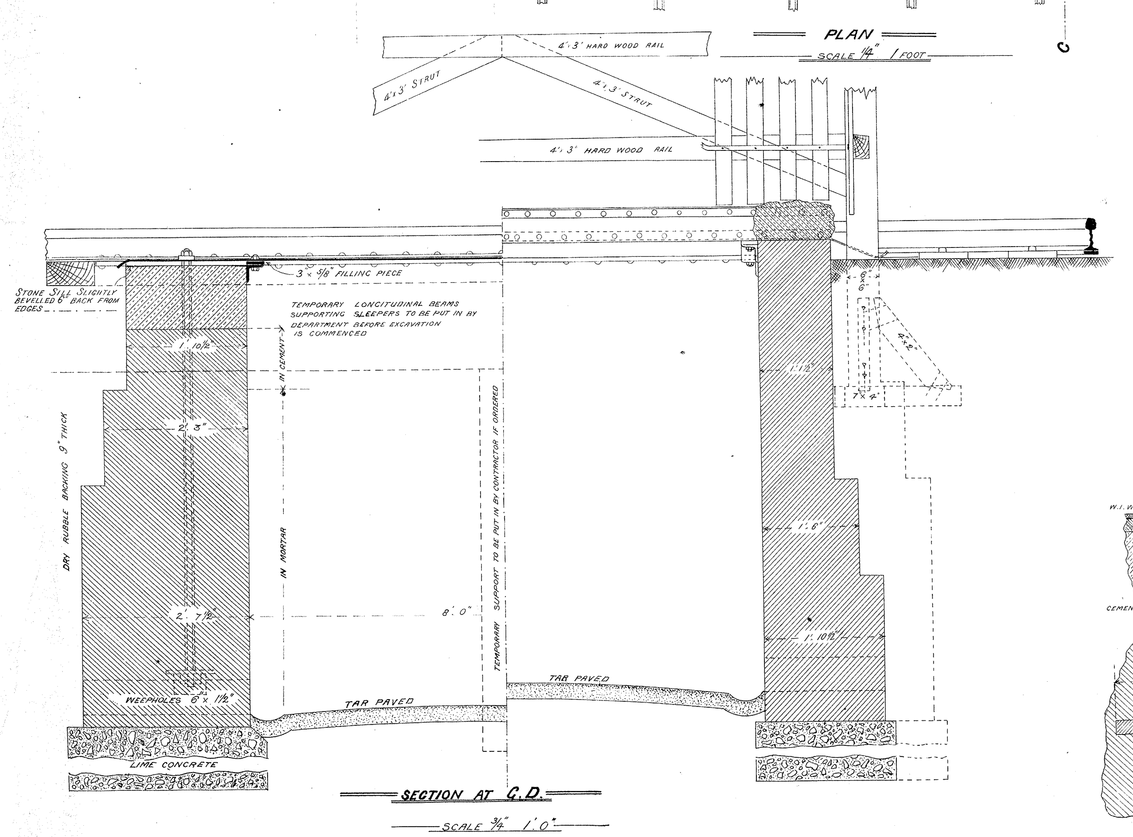
SECTION AT E. F.
SCALE ¾" = 1'.0"



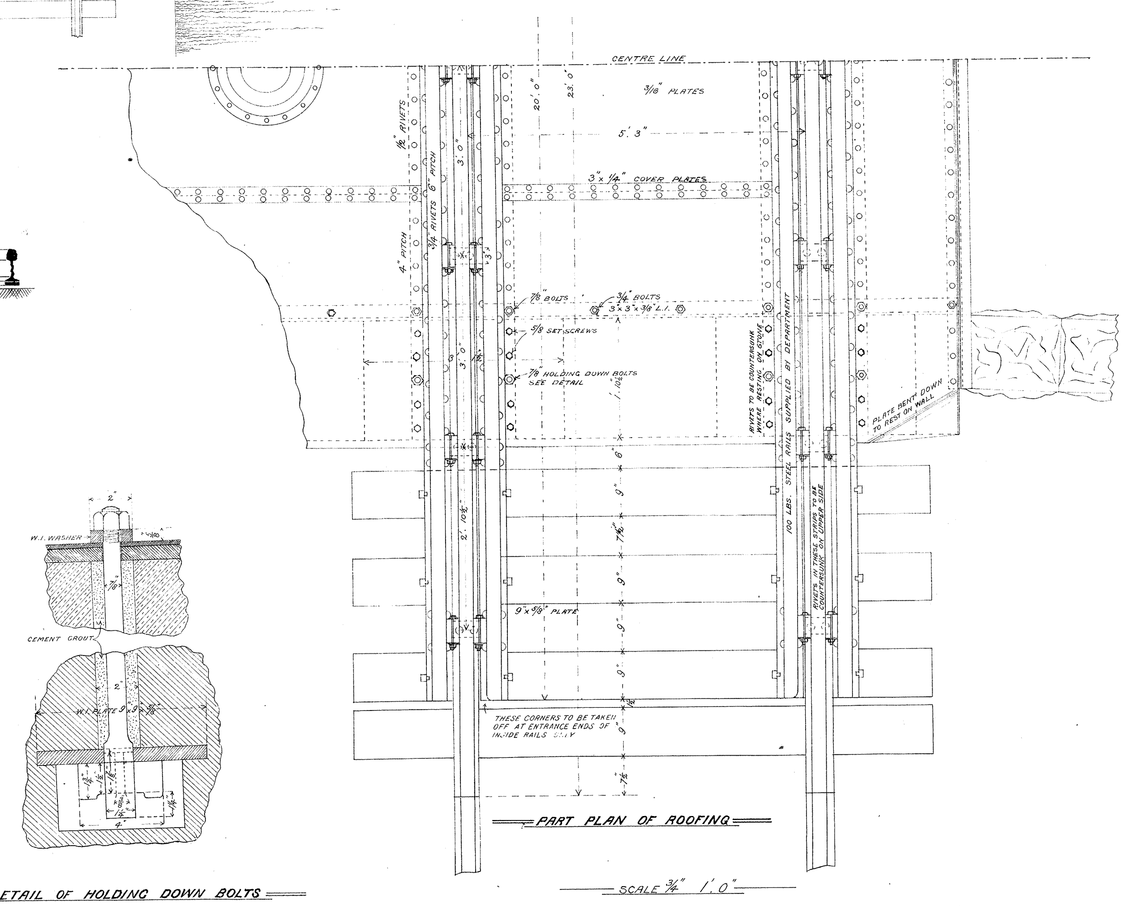
LOCALITY PLAN
SCALE 40 FT = 1 INCH

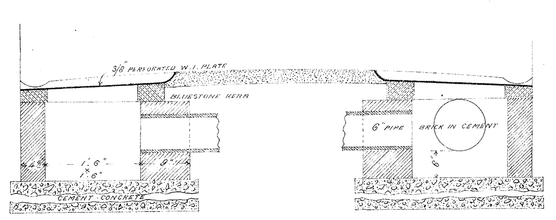


PLAN
SCALE ⅛" = 1 FOOT

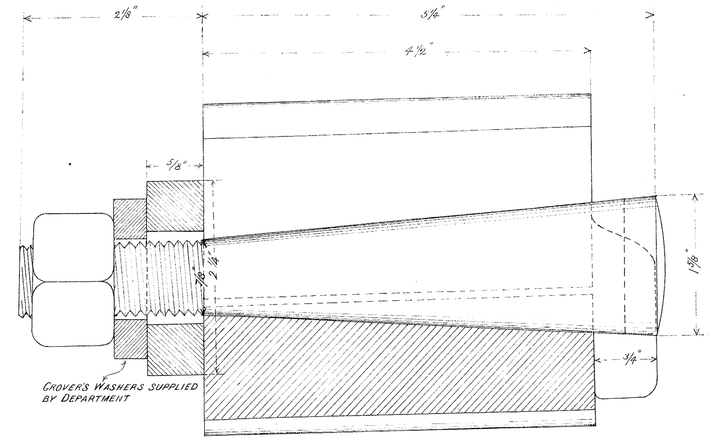


SECTION AT C.D.
SCALE ⅜" 1'.0"

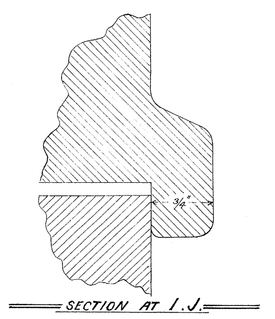




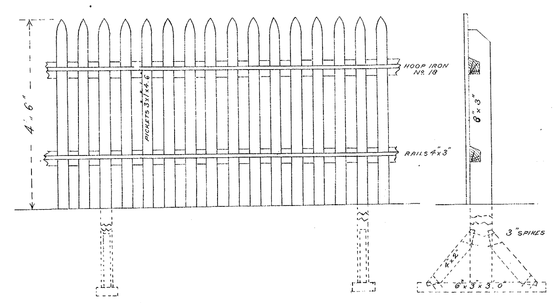
SECTION AT G. H. THRO' CESSPITS
SCALE ¾" = 1'.0"



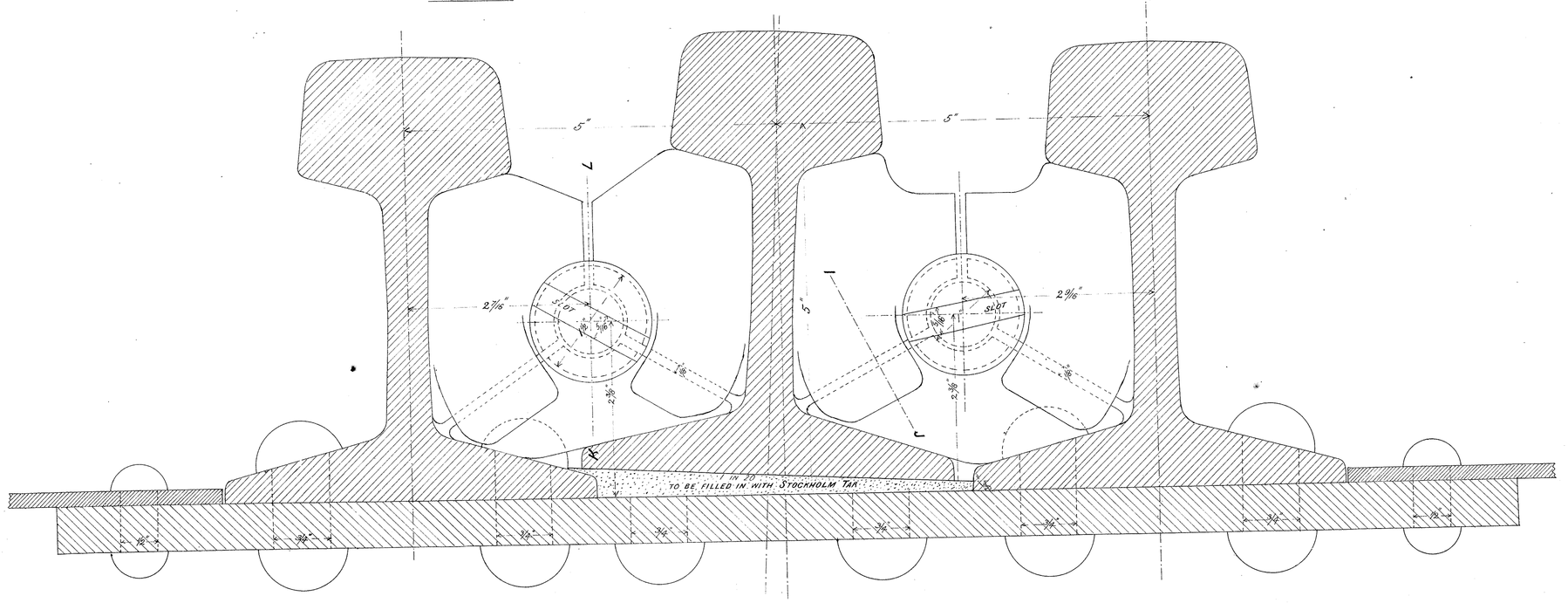
SECTION AT K.L
FULL SIZE



SECTION AT I. J.
FULL SIZE



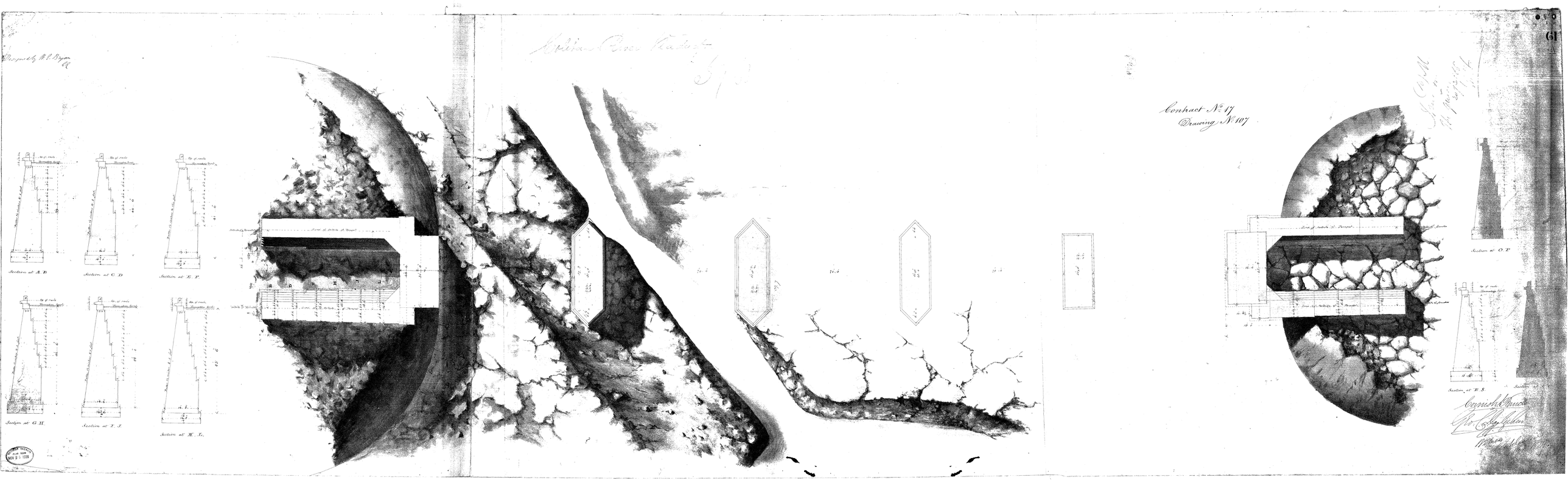
DETAIL OF FENCING
SCALE 2" = 1'.0"



FULL SIZE DETAIL OF BLOCKS

RAILWAY DEPARTMENT MELBOURNE JUNE 1890

Contract No 17
Drawing No 107



RIVER COLIBAN VIADUCT.

G. Bryan
C.E.

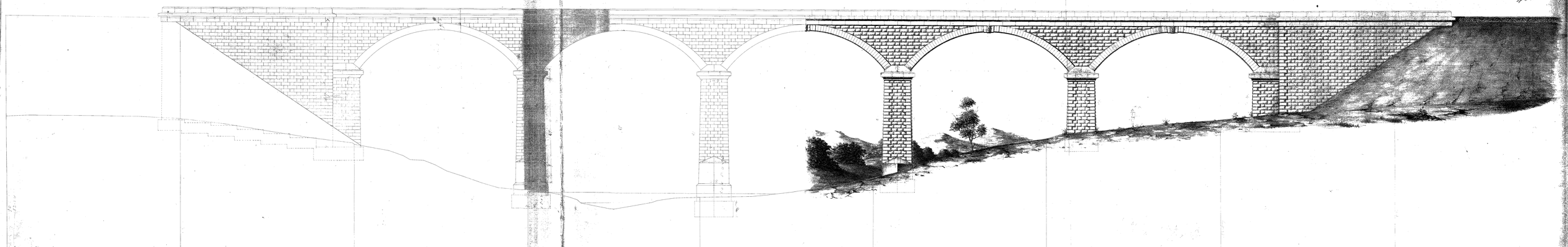
Contract No. 17
Section No. 7
Drawing No. 106

Schedule of Prices

Description of work		Rate
Excavation	Cube Yds	4/
Masonry in fittings in large blocks	" "	4/10½
Packing to Ashlar 2 stones in height to the course	" "	3/7½
Block in course with pitch Quarry faces	" "	4/15½
Block in course with pitch Quarry faces in Vessels of Arches	" "	10/10½
Jutstone Ashlar in Copings Stones Imposts &c	Cube Yds	9/
~~[illegible]~~	~~Cube Yds~~	~~[illegible]~~
Block in course with pitch quarry faces and Grafted mortars	" "	8/2½
Metal pipes through Piers	Cube Yds	5/
Coal Handle	Cube Yds	5/
Schedule 1 inch in thickness	Cube Yds	6/
Block in Course to Parapets with drafted mortars	Cube Yds	6/
Iron Rod in top	Cube Yds	5/7½
Ditto grouted in Piers, has a gone down to the wall	Cube Yds	4/

The Drawing signed on the 3rd Sheet is cancelled and less and the accompanying Drawings substituted

Cornish Ch[illegible]
Geo. C. Lan[illegible]
Witness R. Adams
4 Oct. 18[illegible]



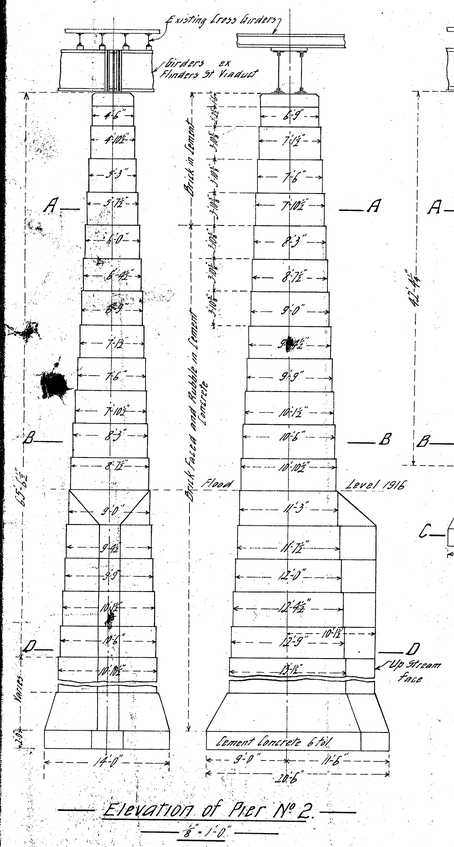
MINISTRY OF WORKS PLAN ROOM NOV 26 1923

V. R.

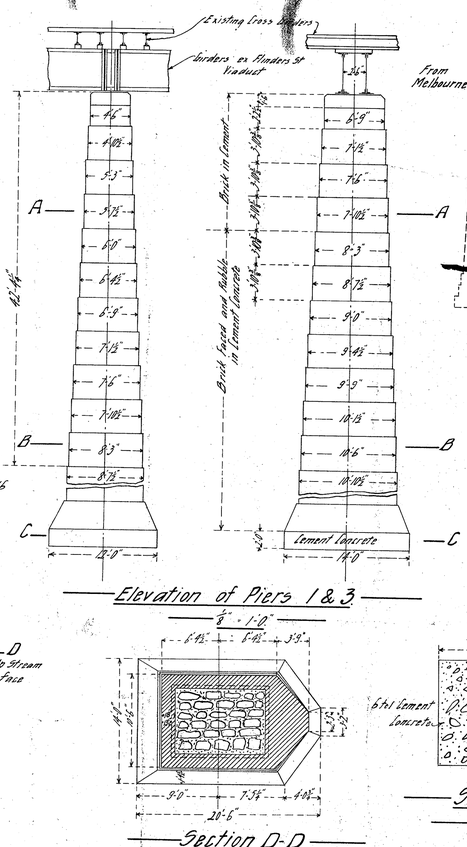
Melbourne to Bendigo Line

BRIDGE OVER JACKSONS CREEK AT SUNBURY.

Details of New Piers etc.

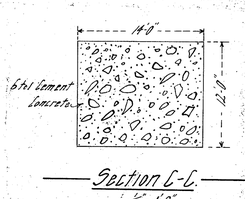


Elevation of Pier No 2.
1/8" = 1'-0"

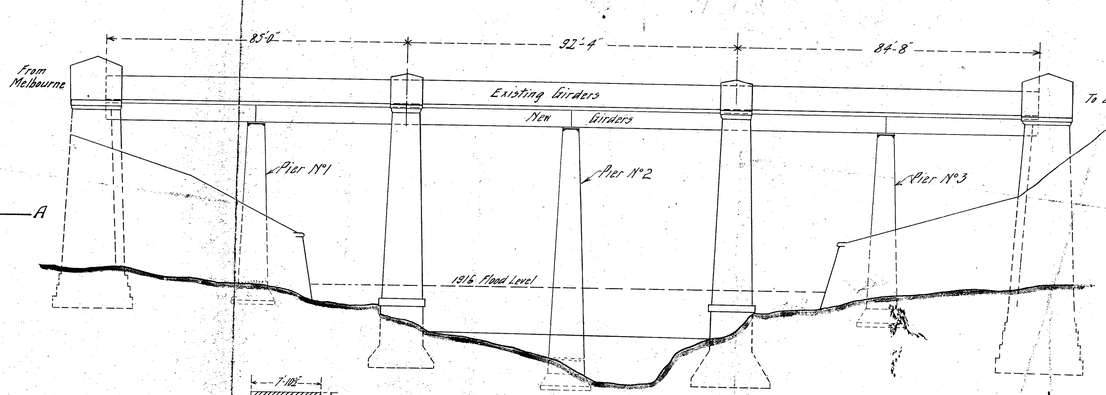


Elevation of Piers 1 & 3
1/8" = 1'-0"

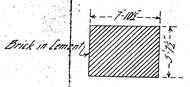
Section D-D
1/8" = 1'-0"



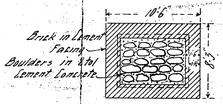
Section C-C.
1/8" = 1'-0"



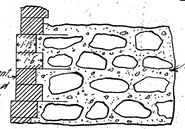
Elevation
20 ft = 1 in



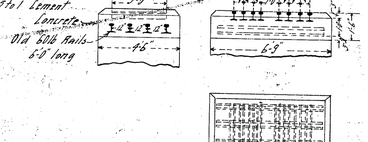
Section A-A



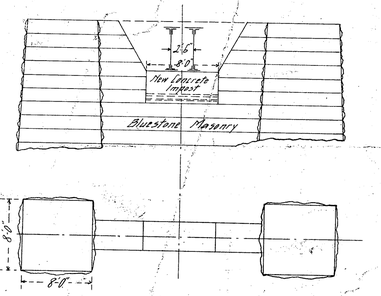
Section B-B.
1/8" = 1'-0"



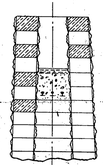
Part Section of Pier
1/4" = 1'-0"



Details of Cap of Piers
1/4" = 1'-0"



Existing Piers
1/8" = 1'-0"

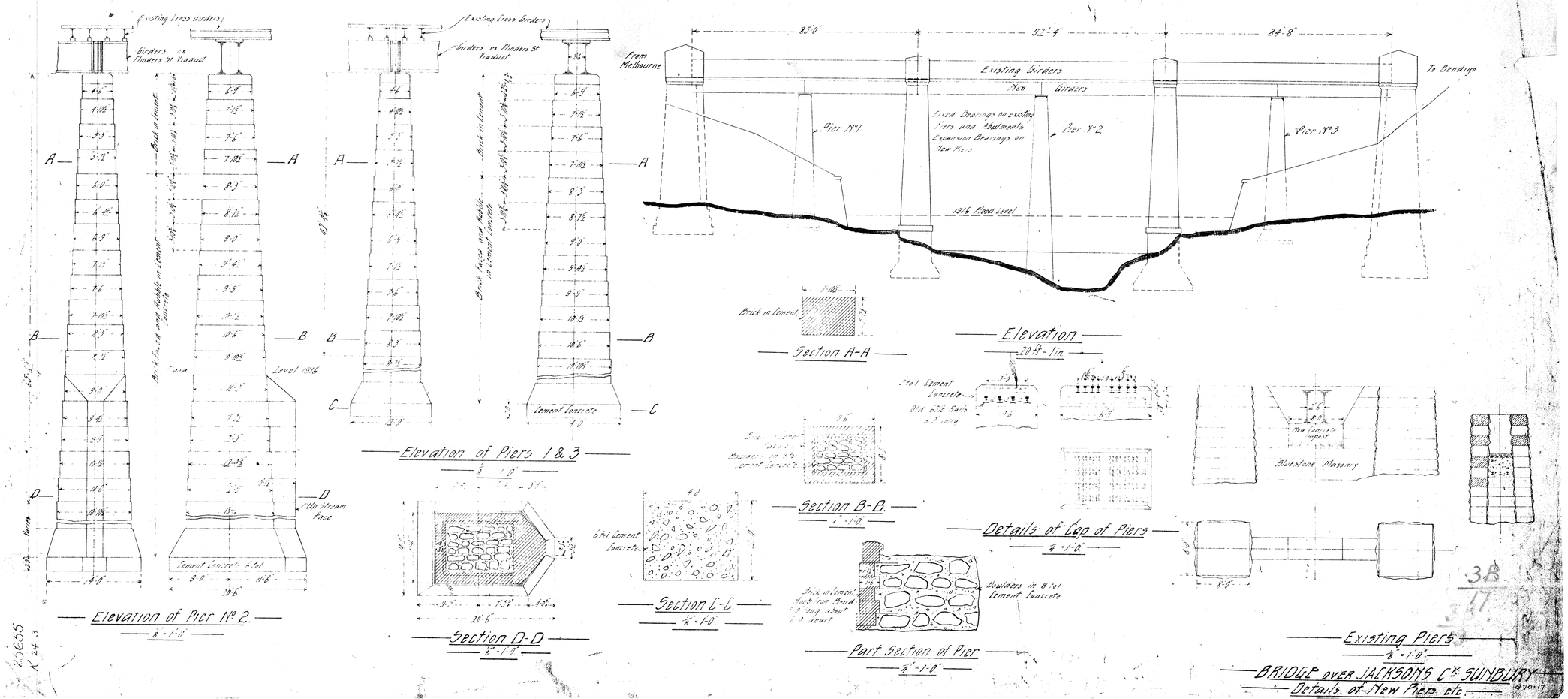


V. R.

Melbourne to Bendigo Line

BRIDGE OVER JACKSON'S CREEK AT SUNBURY

Details of New Piers etc.



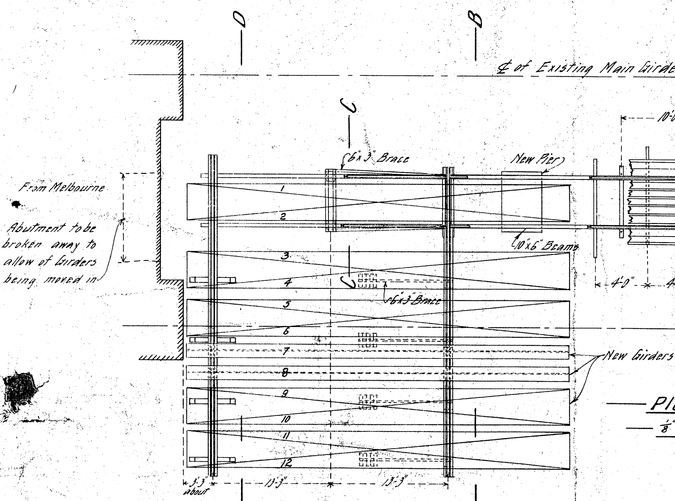
25655
K 24 3

V.R.

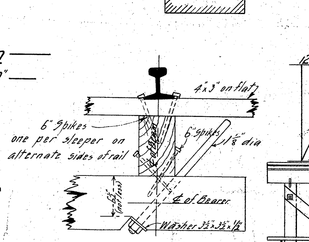
BENDIGO LINE

BRIDGE AT 24M. 50C. 39L (JACKSON'S CREEK)

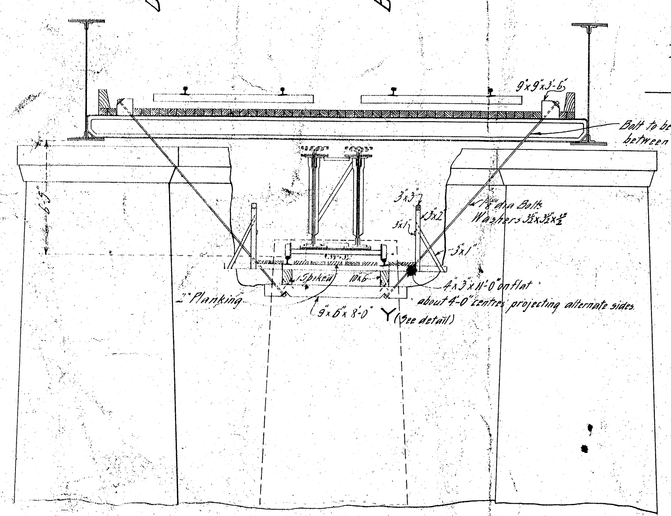
Temporary Structure for rolling in extra Girders.



Plan
1/8"=1'0"



Detail at Y
1"=1'0"



Section A-A.
1/4"=1'0"

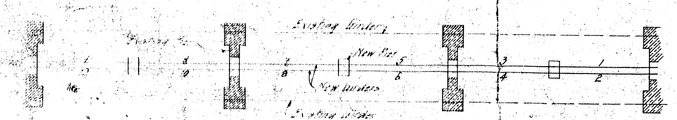
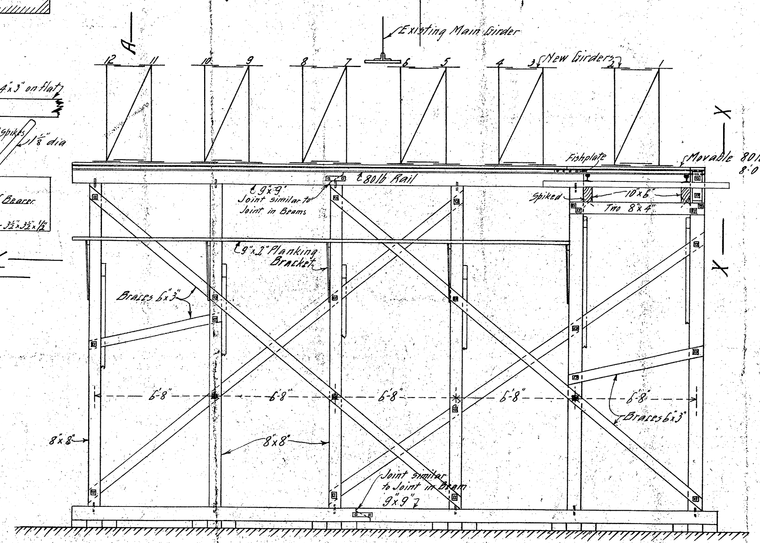
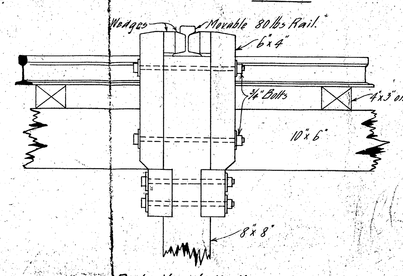


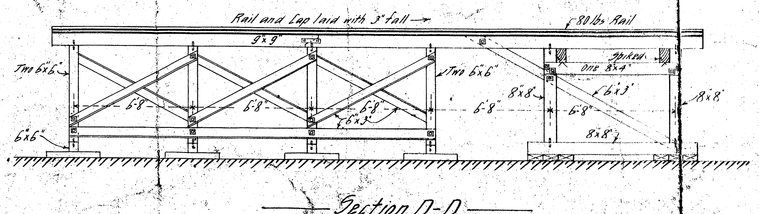
Diagram of Arrangement of New Girders
Scale 1/16"=1'0"



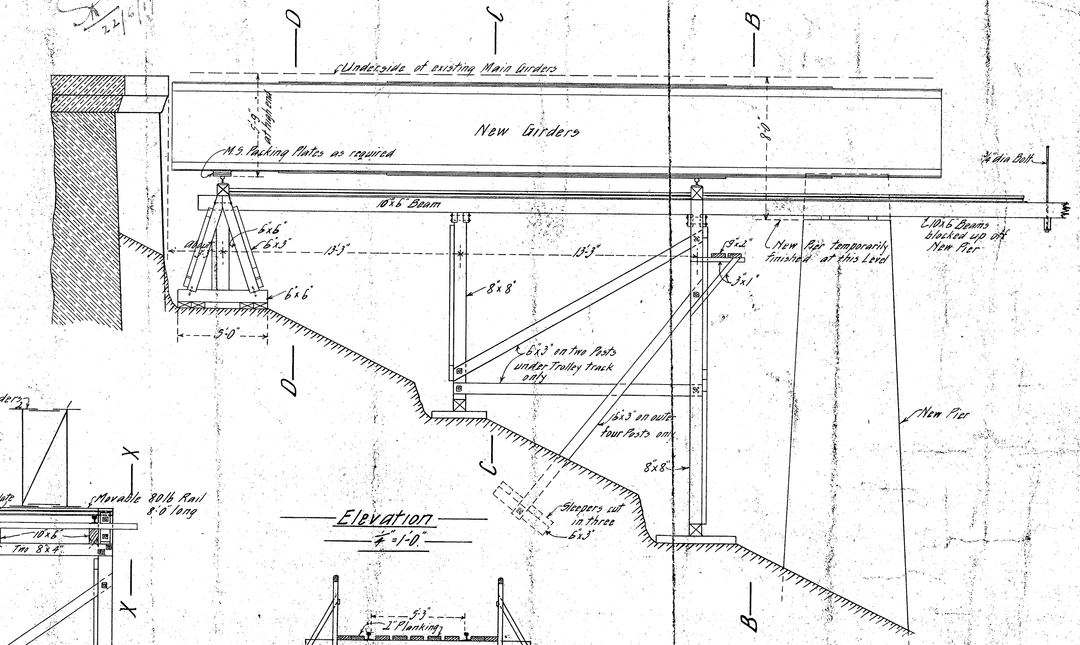
Section B-B.
1/4"=1'0"



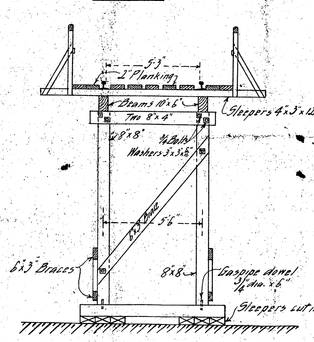
Detail at X-X.
1"=1'0"



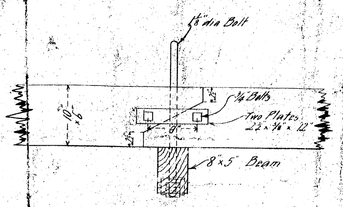
Section D-D
1/4"=1'0"



Elevation
1/4"=1'0"



Section C-C
1/4"=1'0"



Detail of Joints in Beams
1"=1'0"

Note
All bolts to be ¾" dia.
Washers 3x3x⅜ unless otherwise shown
All Timber to be Hardwood

VICTORIAN RAILWAYS.

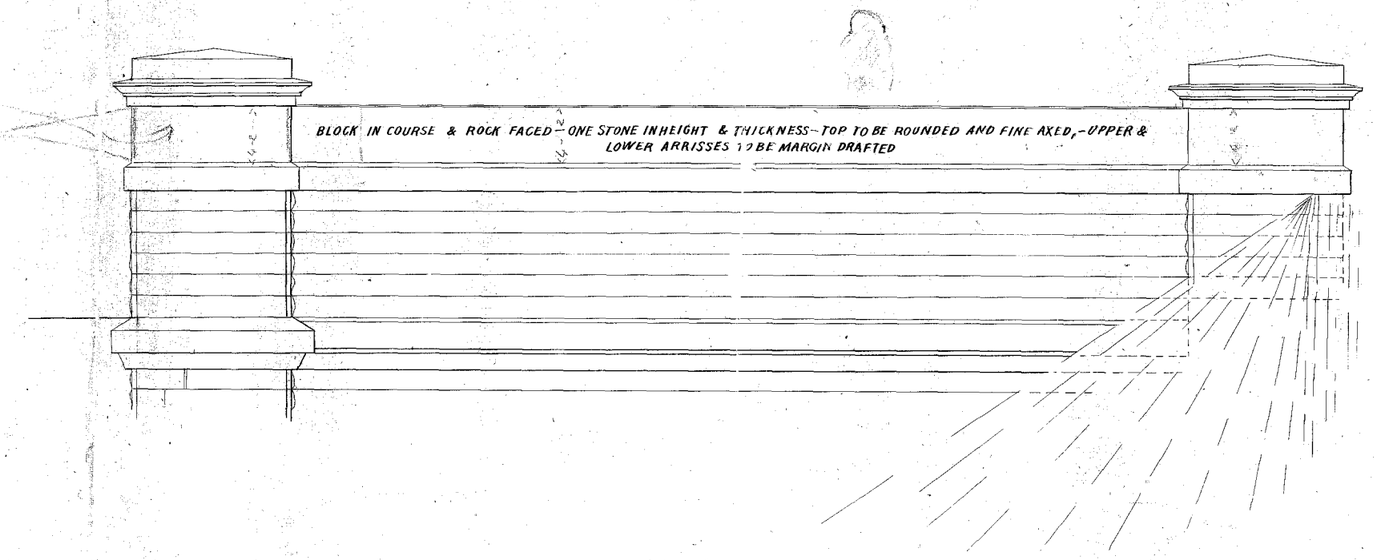
MELBOURNE & RIVER MURRAY RAILWAY.

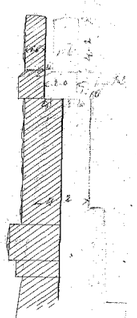
CONTRACT. No

DRAWING. No

TARADALE VIADUCT

Details of Parapet





RECORD COPY
(PLAN ROOM)

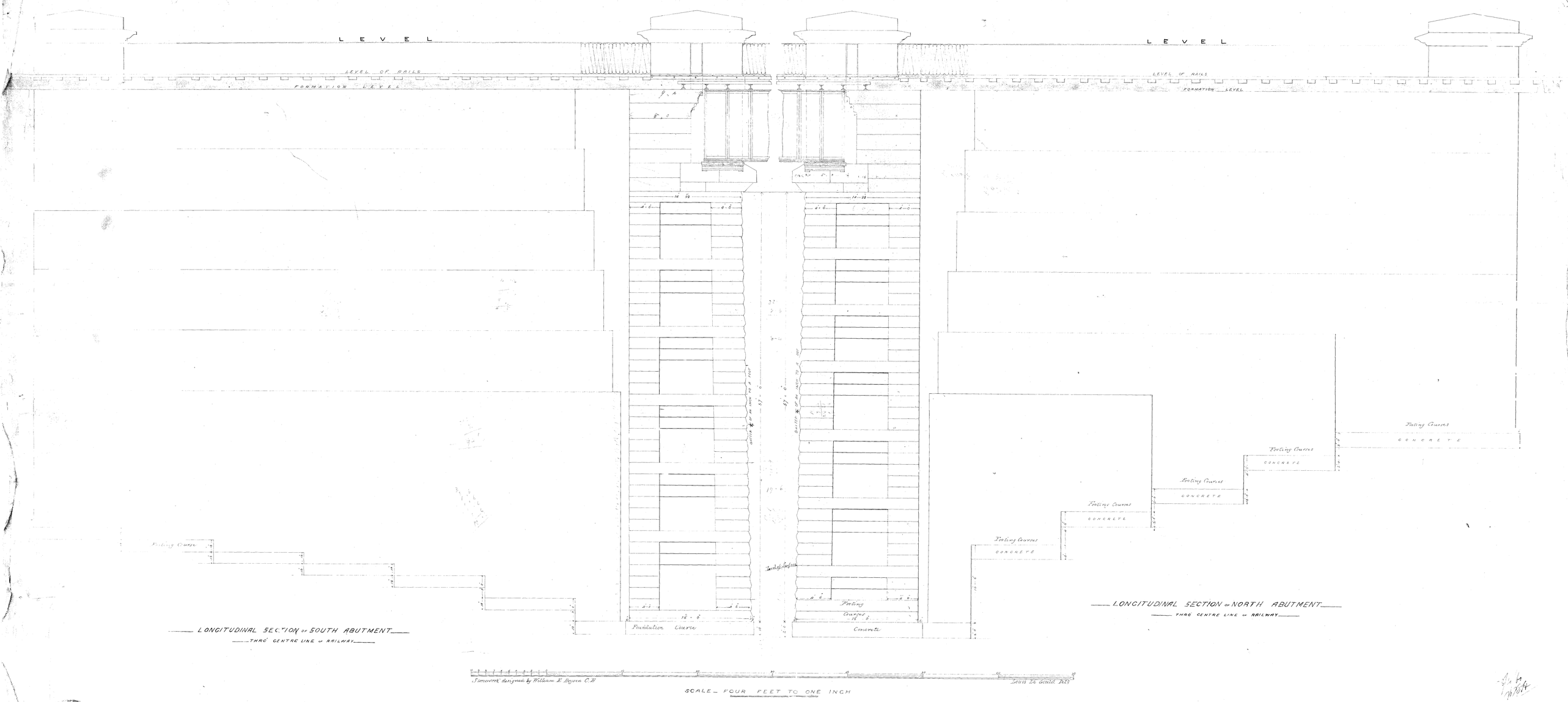
VICTORIAN RAILWAYS
Date 27 May 69

TH ALE VIADUCT

...TORIAN R...LWAY...

MELBOURNE & RIVER MURRAY RAILWAY.

...NTRAC... N
DRAWING, No C



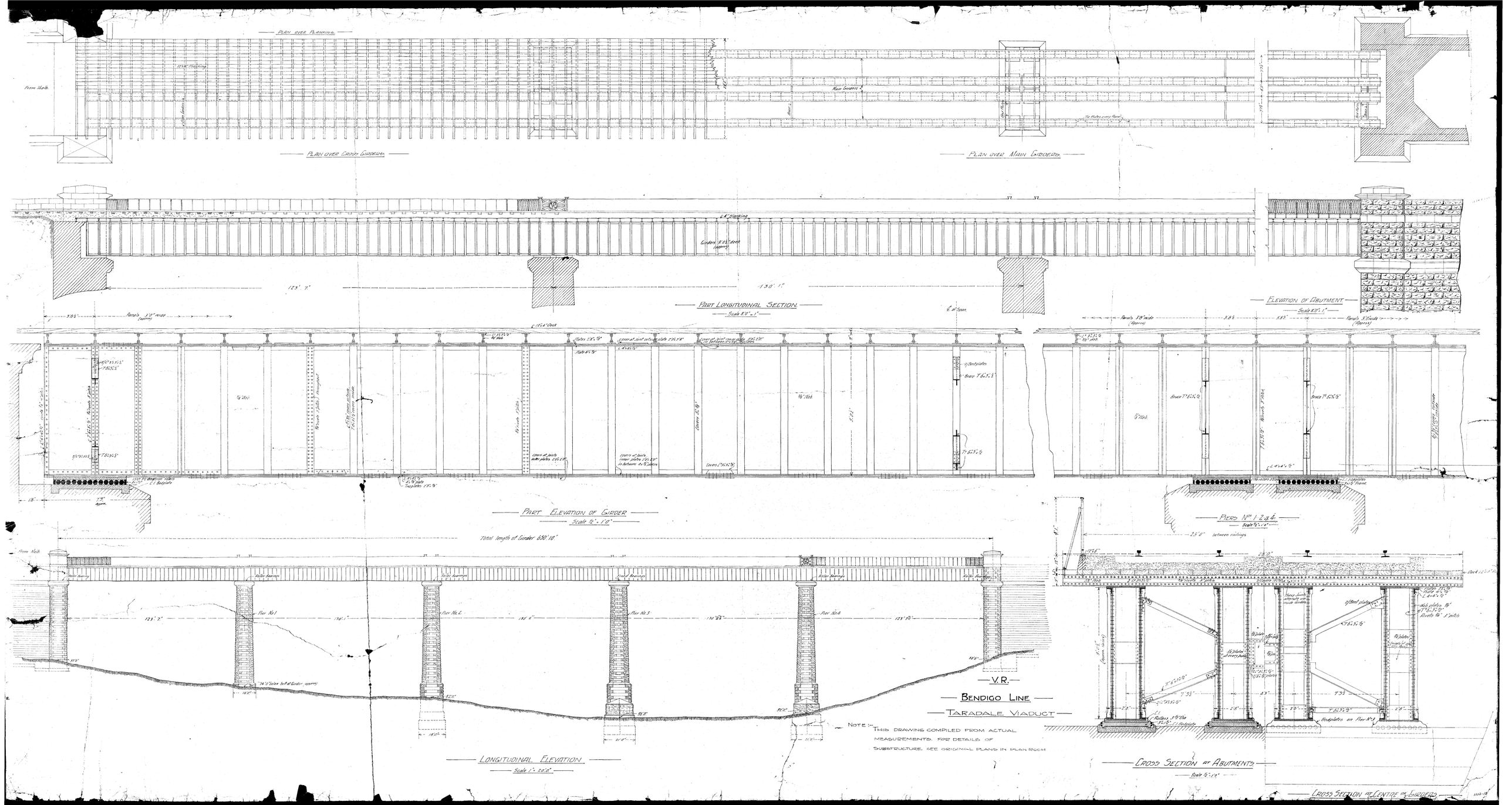
LONGITUDINAL SECTION OF SOUTH ABUTMENT
THRO' CENTRE LINE OF RAILWAY

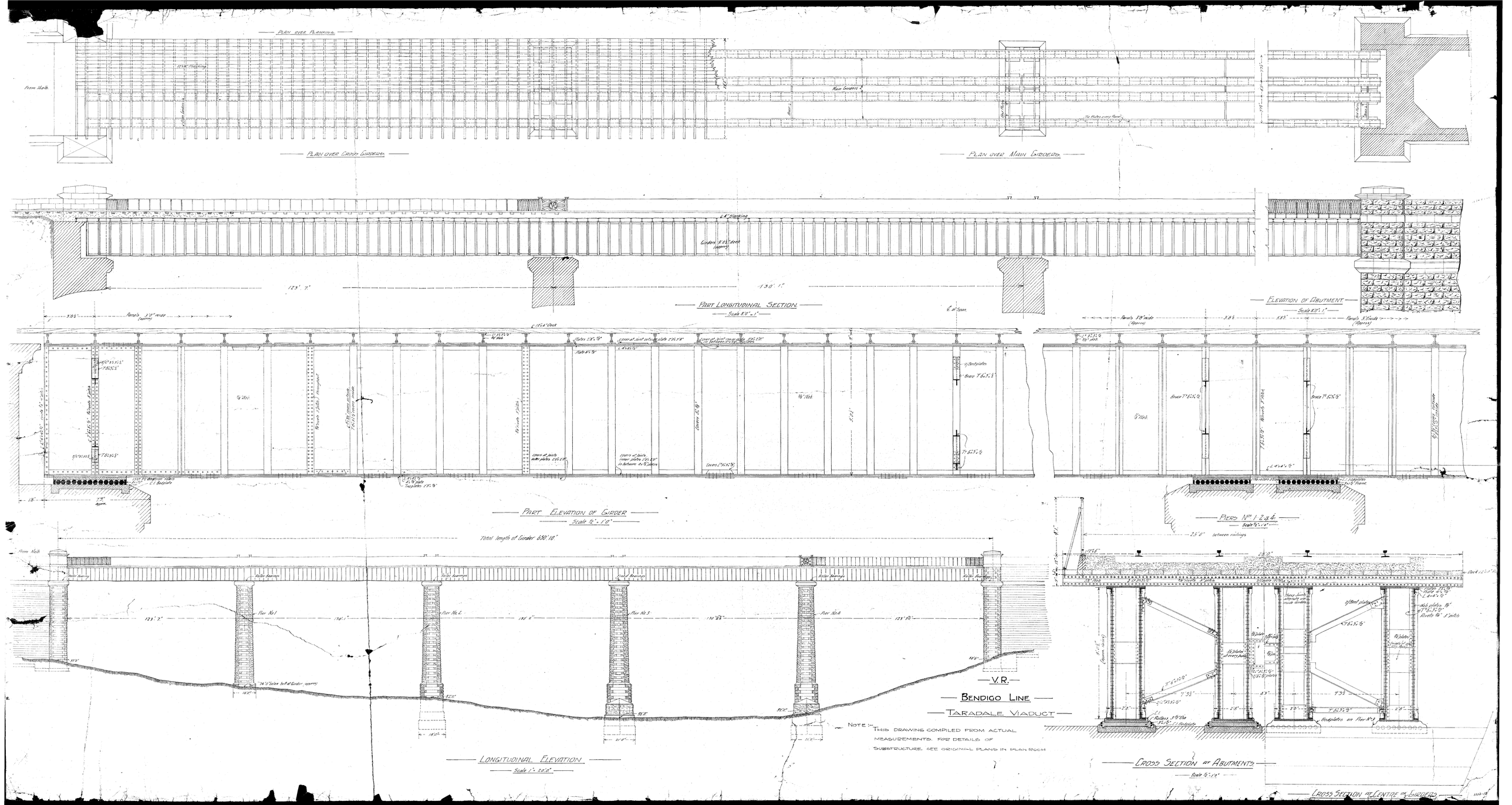
LONGITUDINAL SECTION OF NORTH ABUTMENT
THRO' CENTRE LINE OF RAILWAY

Stonework designed by William E. Bryson C.E.

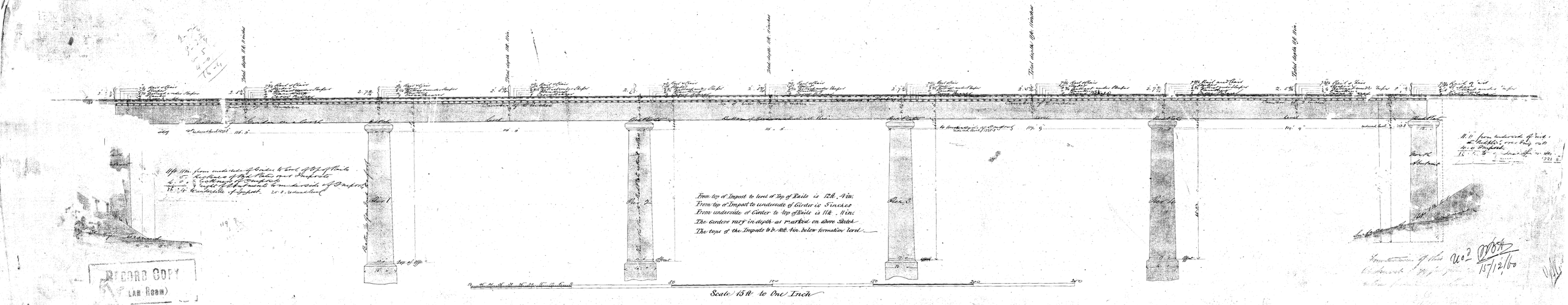
Louis Le Gould Del.

SCALE – FOUR FEET TO ONE INCH


PLAN over PLANKING
PLAN over CROSS GIRDERS
PLAN over MAIN GIRDERS
PART LONGITUDINAL SECTION
Scale 80'-1"
ELEVATION of ABUTMENT
Scale 20'-1"
PART ELEVATION of GIRDER
Scale 12"-1'0"
PIERS Nos 1, 2 & 4
Scale 4'-1"
LONGITUDINAL ELEVATION
Scale 1"-20'0"
CROSS SECTION at ABUTMENTS
Scale 4'-1"
CROSS SECTION at CENTRE of GIRDERS
V.R.
BENDIGO LINE
TARADALE VIADUCT
NOTE:- THIS DRAWING COMPILED FROM ACTUAL MEASUREMENTS. FOR DETAILS OF SUBSTRUCTURE, SEE ORIGINAL PLANS IN PLAN ROOM


PLAN over PLANKING
PLAN over CROSS GIRDERS
PLAN over MAIN GIRDERS
PART LONGITUDINAL SECTION
Scale 80'-1"
ELEVATION of ABUTMENT
Scale 20'-1"
PART ELEVATION of GIRDER
Scale 12"-1'0"
PIERS Nos 1, 2 & 4
Scale 4'-1"
LONGITUDINAL ELEVATION
Scale 1"-20'0"
CROSS SECTION at ABUTMENTS
Scale 4'-1"
CROSS SECTION at CENTRE of GIRDERS
V.R.
BENDIGO LINE
TARADALE VIADUCT
NOTE:- THIS DRAWING COMPILED FROM ACTUAL MEASUREMENTS. FOR DETAILS OF SUBSTRUCTURE, SEE ORIGINAL PLANS IN PLAN ROOM

TARADALE VIADUCT.



RECORD COPY
(LAN Room)

TARADALE VIADUCT

Plan

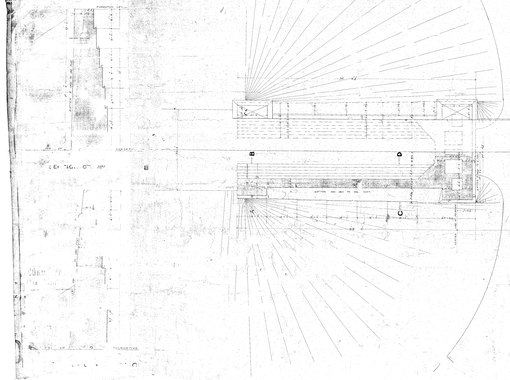
FOR BUILDING FOUNDATIONS

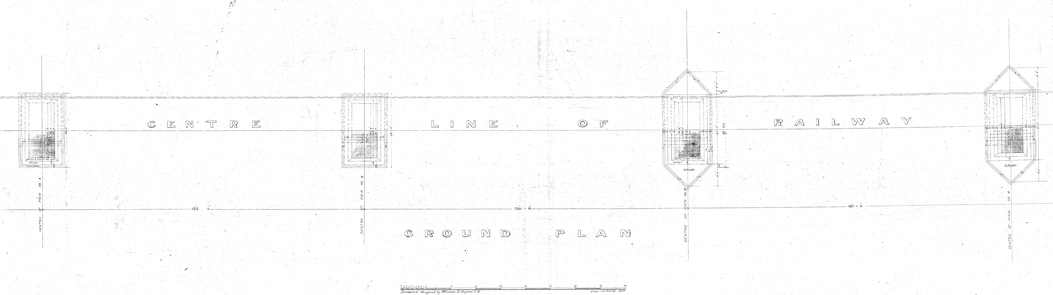
VICTORIAN RAILWAYS.

MELBOURNE & RIVER MURRAY RAILWAY.

CONTRACT. Nº

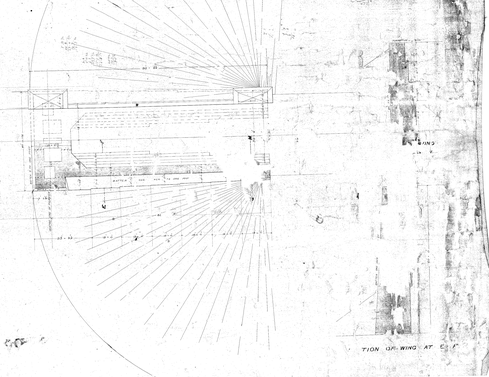
DRAWING. Nº





GROUND PLAN

SCALE — EIGHT FEET TO ONE INCH.



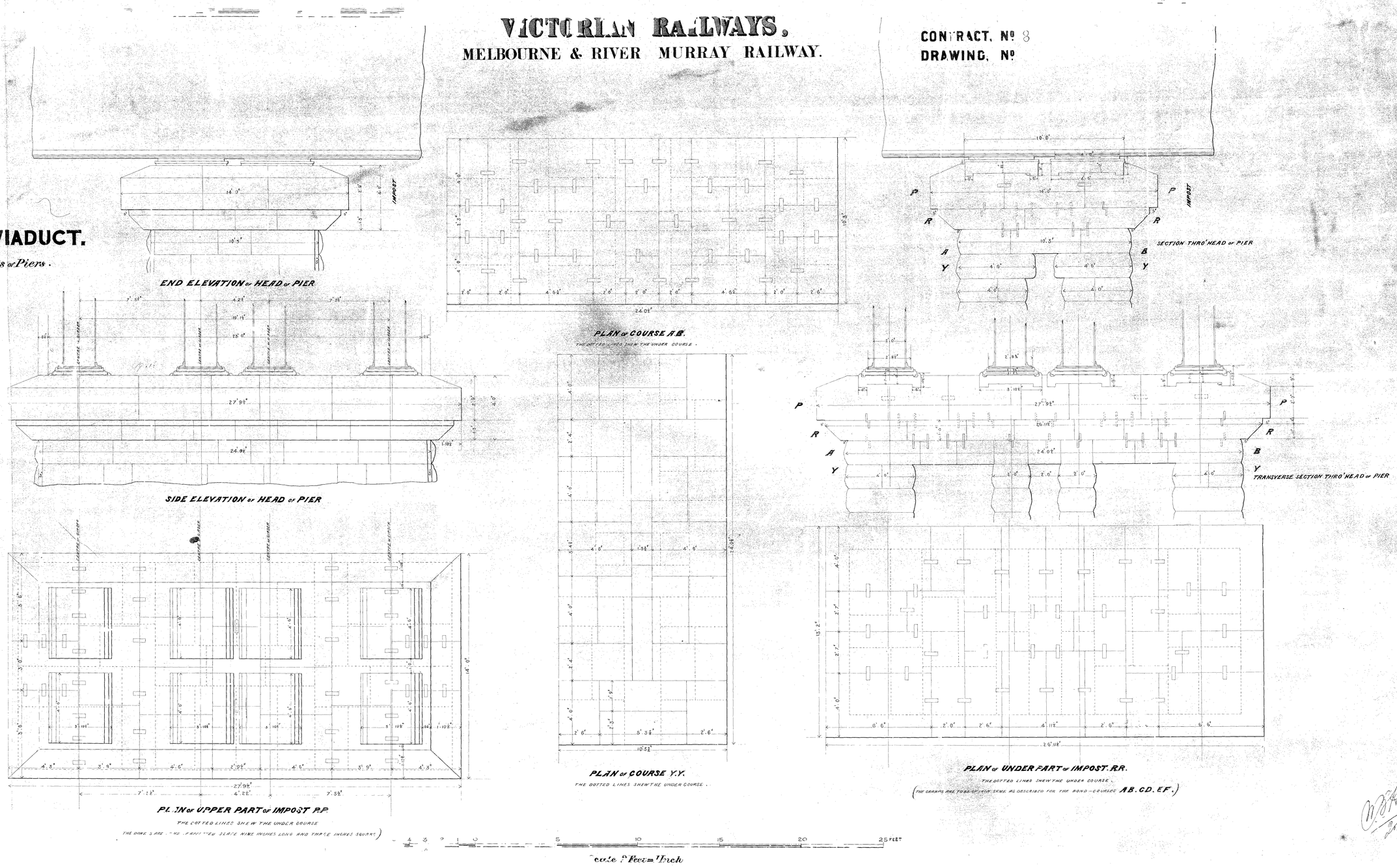
VICTORIAN RAILWAYS.

MELBOURNE & RIVER MURRAY RAILWAY.

CONTRACT, No 8
DRAWING, No

TARADALE VIADUCT.

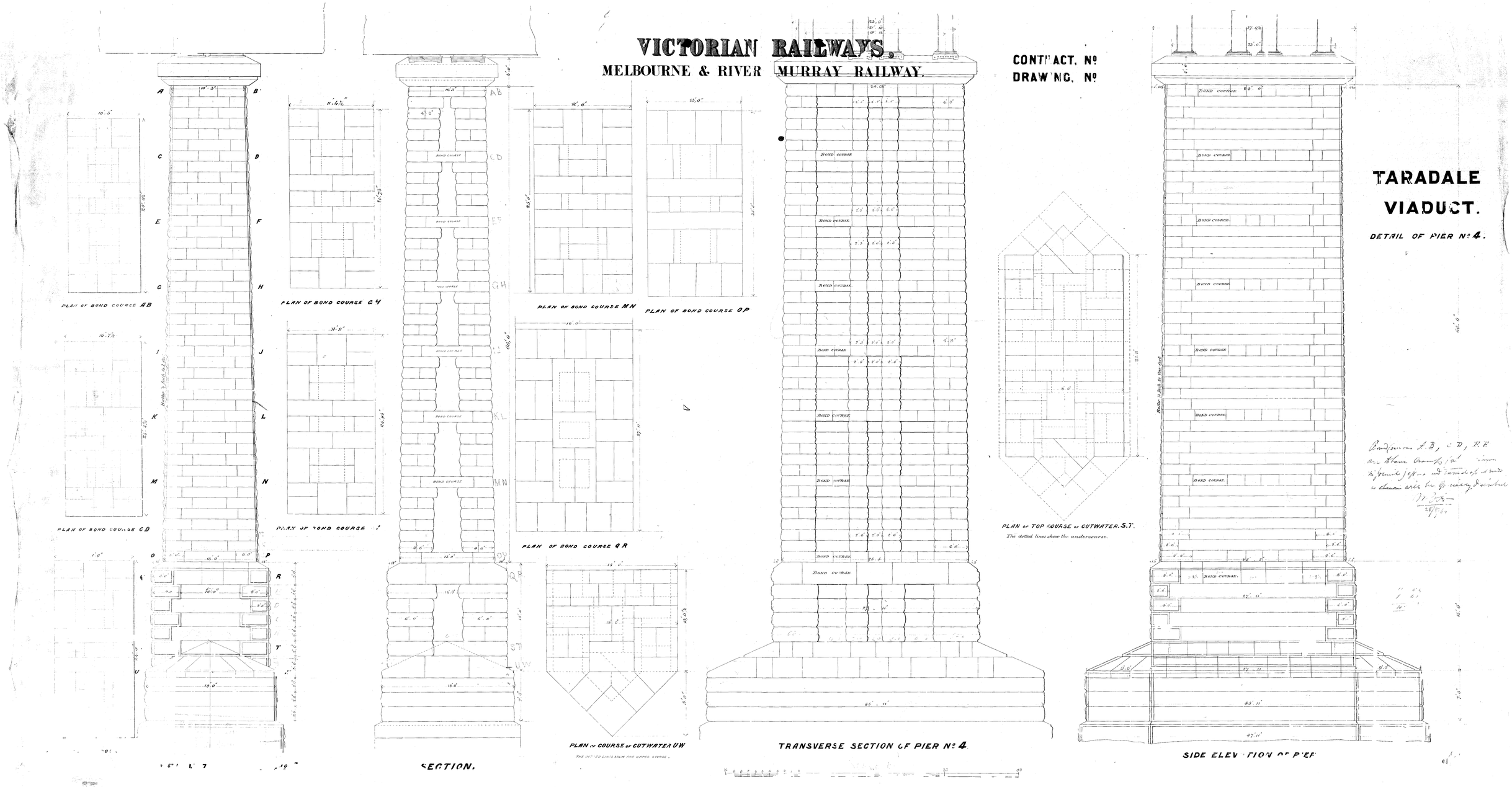
Details of Imposts of Piers.



VICTORIAN RAILWAYS.

MELBOURNE & RIVER MURRAY RAILWAY.

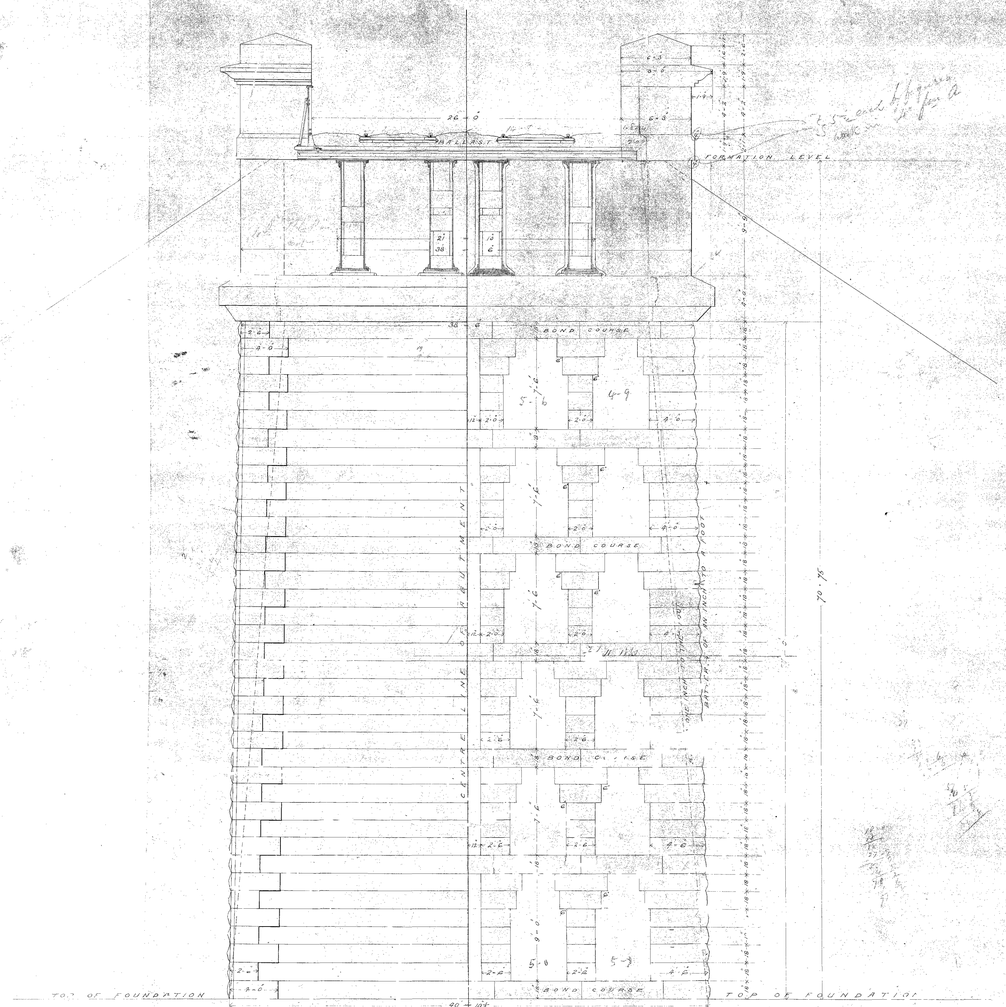
CONTRACT, No
DRAWING, No



TARADALE VIADUCT

MELBOURNE & RIVER MURRAY RAILWAY

CONTRACT
DRAWING No 6
Section No 8



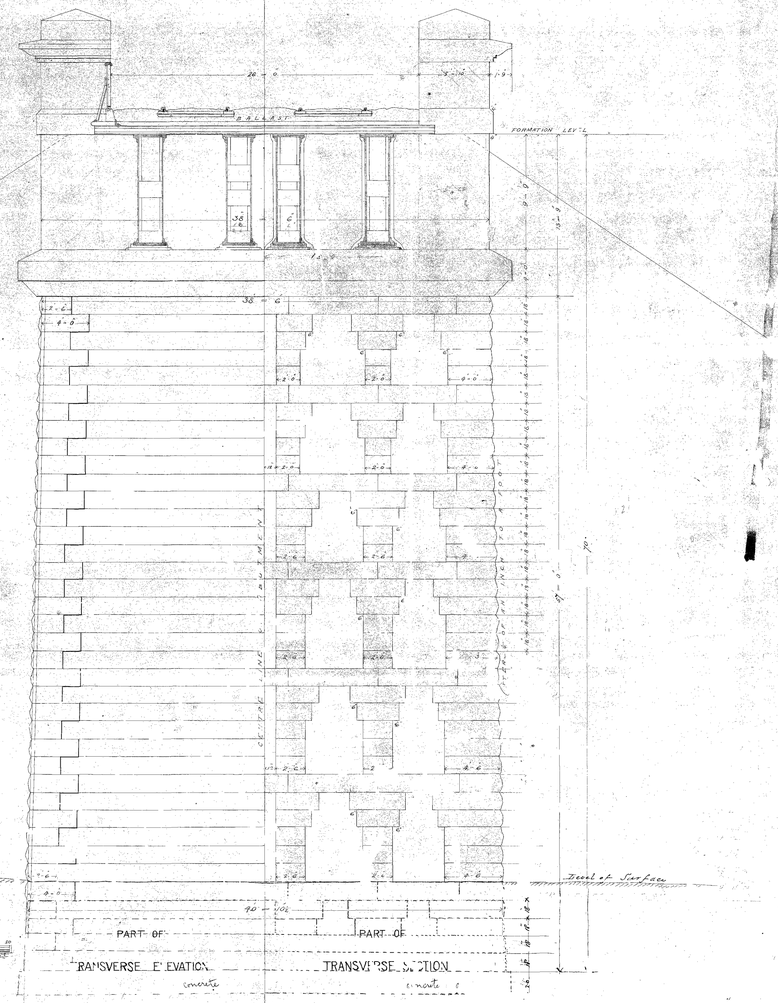
PART OF TRANSVERSE ELEVATION

PART OF TRANSVERSE SECTION

Stonework designed by William D. Bryson C.E.

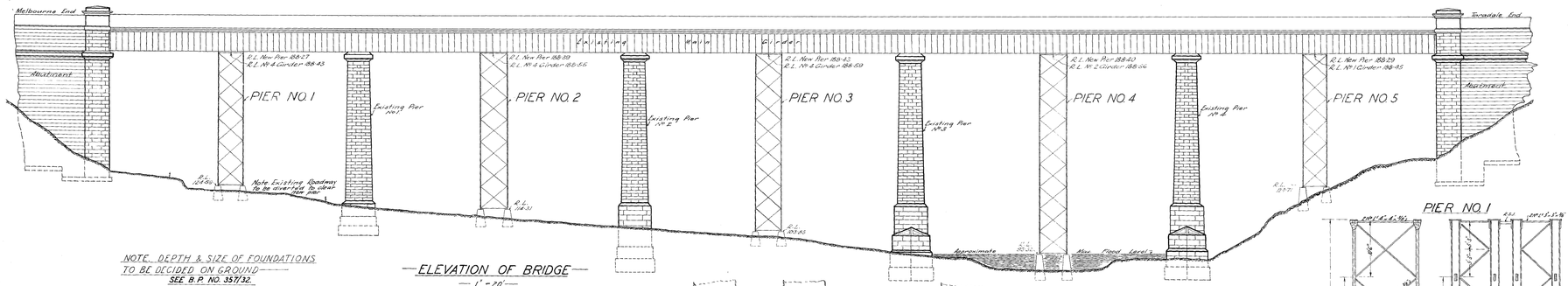
Lewis & Gould lith.

SCALE FOUR FEET TO ONE INCH



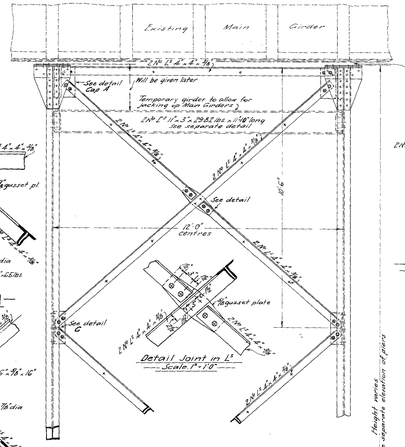
CONTRACT No 45485

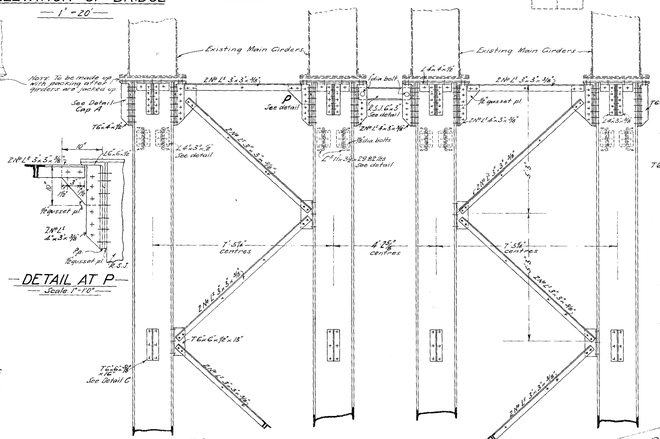
IW. 889

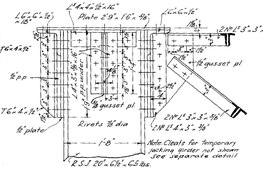


—ELEVATION OF BRIDGE—
1" = 20'

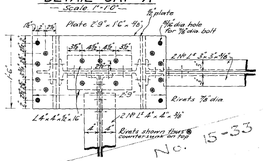
NOTE. DEPTH & SIZE OF FOUNDATIONS TO BE DECIDED ON GROUND
SEE B.P. NO. 357/32.





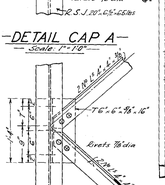


—DETAIL CAP A—
Scale 1"=1'0"



—PLAN CAP A—
Scale 1"=1'0"

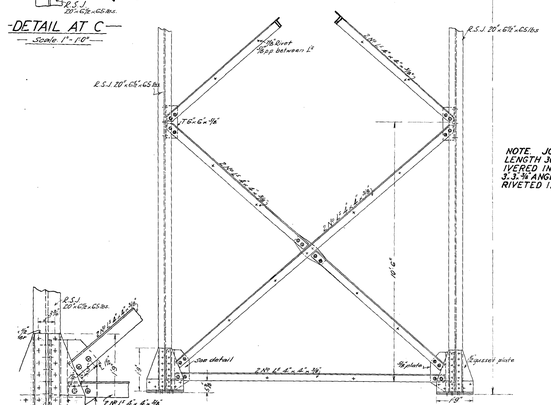
—DETAIL AT P—
Scale 1"=1'0"

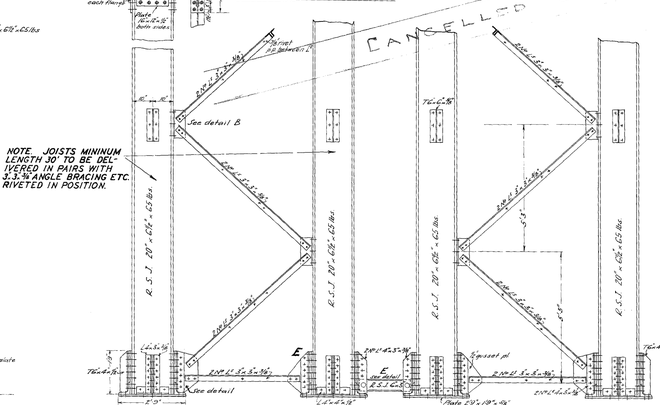


—DETAIL CAP A—
Scale 1"=1'0"

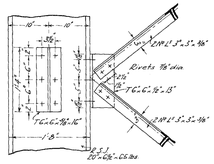
—DETAIL AT C—
Scale 1"=1'0"

JOINT IN R.S.J
Minimum length of R.S.J. 30'0"
Positions of joints to be determined.



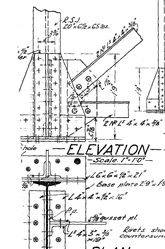


NOTE. JOISTS MINIMUM LENGTH 30' TO BE DELIVERED IN PAIRS WITH 3"x3"x⅜" ANGLE BRACING ETC. RIVETED IN POSITION.



—DETAIL AT B—
Scale 1"=1'0"

—NOTE— ALL RIVETS ⅞" DIA.



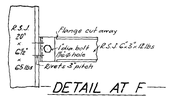
—ELEVATION—
Scale 1"=1'0"

—PLAN—

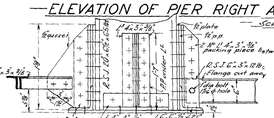
—DETAIL OF BASE—
Scale 1"=1'0"

—ELEVATION OF PIER—
Scale ⅛"=1'0"

NOTE. FIELD RIVETS SHOWN THUS ⊕
SHOP " " " +

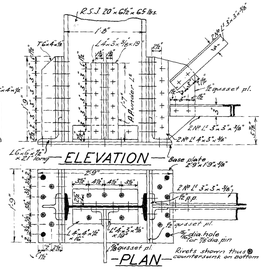


—DETAIL AT F—
Scale 1"=1'0"



—ELEVATION OF PIER RIGHT ANGLES TO BRIDGE—
Scale ⅛"=1'0"

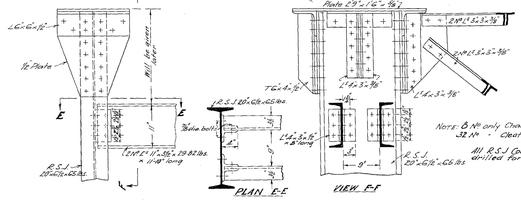
—DETAIL AT E—
Scale 1"=1'0"



—ELEVATION—
Scale 1"=1'0"

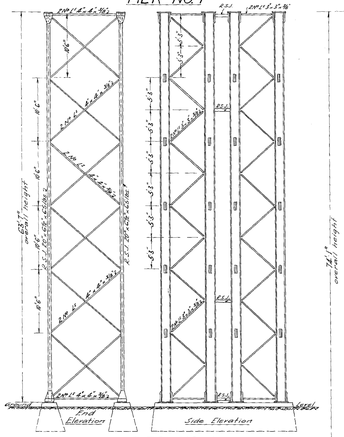
—PLAN—

—DETAIL OF BASE—
Scale 1"=1'0"

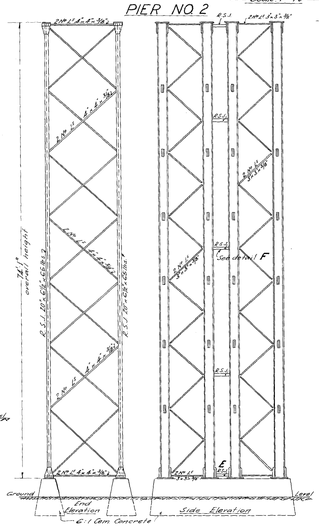


—DETAIL FOR JACKING UP MAIN GIRDERS—
Scale 1"=1'0"

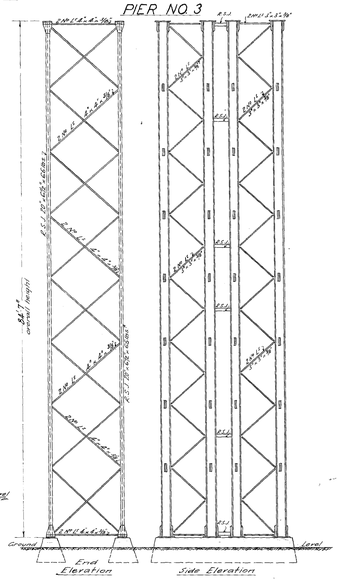
PIER NO. 1



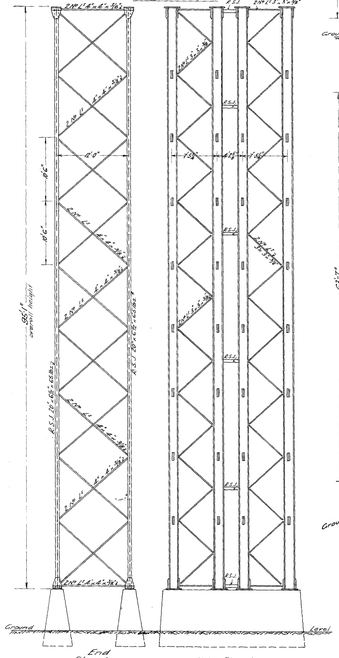
PIER NO. 2



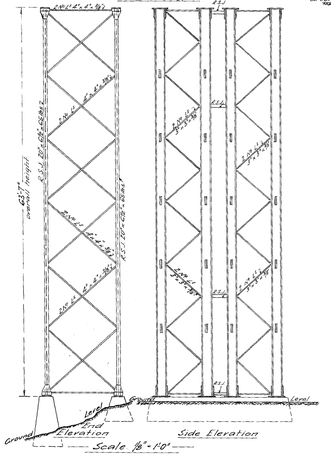
PIER NO. 3



PIER NO. 4



PIER NO. 5



Scale ⅛"=1'0"

NOTE. SEE B.P. NO. 357/32 FOR DETAILS OF FOOTINGS

APPROXIMATE QUANTITIES	
R.S.J 20"-65"-65 lbs	88.31 Tons
L 6"x4"x⅝"	11.47 "
L 3"x3"x⅜"	14.65 "
F"I"-3⅜"-29.82 lbs	1.26 "
R.S.J 6"x3"x12 lbs	18.32 Cwts.
TG"-6"x⅜" Cleats	3.82 Tons
TG"-6"x⅝" "	2.81 "
Total Steel	177 "
6:1 Cam Concrete	300 C.Yds.
Excavation	300 "

Note. Before packing plates between girders and top of new steel piers are inserted Main Girders are to be jacked up and Dead load deflection taken out.

—V.R.—
—MELBOURNE—BENDIGO LINE—
—TARADALE VIADUCT—
— STRENGTHENING BY PROVISION OF —
— INTERMEDIATE PIERS —

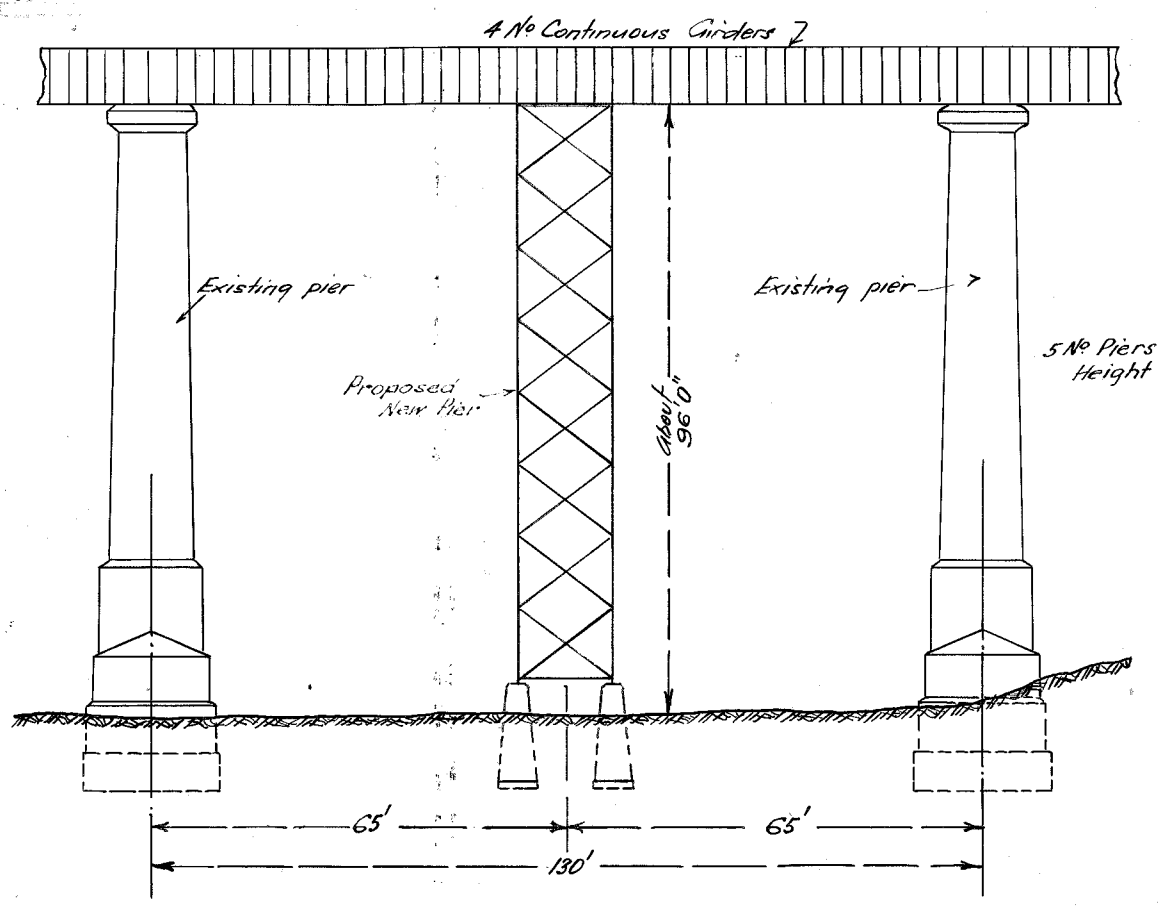
Chief Engineer of Way and Works. 7. 12. 32.

A-15-97.

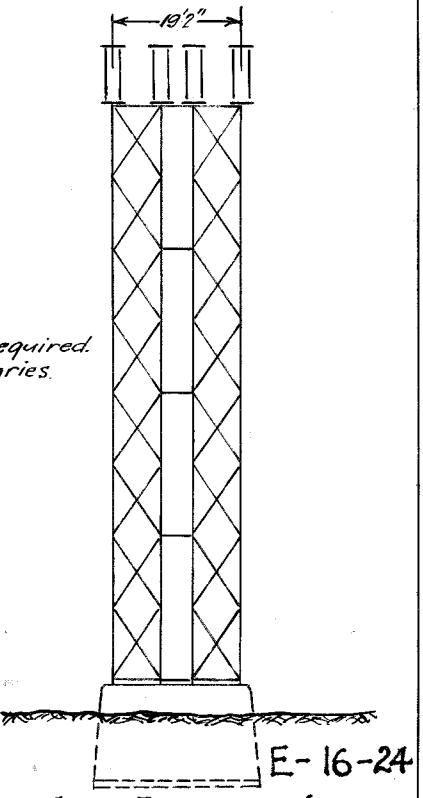
Drawn by R.R Plant | Correct 6605 / 6825 / 129 | Structure Engineer

PLAN NO 286/32

26430
a 2 66



ELEVATION



SIDE ELEVATION

SCALE:- 1" = 20'

E-16-24

MELBOURNE V.R. BENDIGO LINE
TARADALE VIADUCT
Proposed New Piers
10.12.31
516. 31.

Drawn by R.Plant	Structural Engineer	Plan No