

- Notes**
1. Prestressing steel to be $\frac{3}{8}$ \"/>
 2. Min. compressive strength of concrete at time of release 4500 psi at 20 days 5500 psi
 3. Reinforcing to have 1 1/2\"/>
 4. Length of stringers given [] are to be attained at 28 days after placing concrete.
 5. Reinforcing to be structural grade, splices to be staggered, top of bars to be 400.
 6. Ends of stringers to be painted with asphaltic material.

APPROVED
C. H. J. Allen
 detail couplings 1'-1-0"
OFFICE COPY

Phone 107-0793
 Superior Concrete Products Ltd.
 551 Seymour Blvd.
 North Vancouver, B.C.

Bradner Road Overpass
 Prestressed Concrete Stringers 41'-0" L.

99882
 Scale as shown
 Made by: [] Date: 01.14.66
 Checked by: [] Date: []
 Approved: [] Revised: []
 Dwg. 841-5

GOVERNMENT OF BRITISH COLUMBIA
DEPARTMENT OF HIGHWAYS
BRIDGE ENGINEER'S OFFICE

BILL No. 1608-X1
SHEET No. 1 of 1
FILE No. 917
MADE BY J.T.W.S.
DATE MAY, 23/59
CHECKED BY K.W.
DATE Nov 6/59

BILL OF RAILS FOR PIPE

RAILING

NAME OF WORK BRADNER ROAD OVERPASS

CHILLIWACK DISTRICT

TRANS-CANADA HIGHWAY
MILE 105.01

Revisions	Rev	Made by	Checked by	Date
A				
B				
C				

ITEM No.	QUANTITY	SIZE	MARK	DESCRIPTION	LM. FT.
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Rails shall be galvanized steel tubing (minimum wall thickness 12 B.W.G.) or aluminum alloy tubing (minimum wall thickness 6") as ordered. All pieces mark A1 and A2 are to be supplied with one rail cap as shown on Dwg. No. SK 587-92. Caps to be shop fitted.

All above as per specifications.

1.	32	5" O.D.	Mk A1	Rails	11'-1 1/2" lg.	355'-6"
2.	16	"	Mk A2	"	11'-0 1/2" lg.	176'-6"
3.	32	"	Mk B1	"	9'-5" lg.	301'-6"
4.	16	"	Mk B2	"	9'-4" lg.	149'-6"
					Total	982'-6" lin. ft.

GOVERNMENT OF BRITISH COLUMBIA
DEPARTMENT OF HIGHWAYS
BRIDGE ENGINEER'S OFFICE

BILL No. 1608-X2
SHEET No. 1 of 1
FILE No. 917
MADE BY J.T.W.S.
DATE MAY, 23/59
CHECKED BY P.P.
DATE Nov 6/59

BILL OF REINFORCING STEEL

FOR SUBSTRUCTURE

NAME OF WORK BRADNER ROAD OVERPASS

ITEM No.	No. REQ'D	MARK	SIZE	LENGTH	TOTAL LENGTH	BENDING DIMENSIONS											
						A	B	C	D	E	F	G	H	I	J	K	L
1.			"6		9460	Cut and bend to											
2.			"5		13330	suit Dwg. No. 1608-6											
3.			"4		13680												
					Total Weight	37,300 lbs.											

Reinforcing bars shall be in accordance with the Canadian Standards Association Specification for Billet Steel Reinforcing Bars No. G30-1938 or with the Specification for Rail Steel Reinforcing Bars No. G31-1938 and subsequent revisions thereof.

GOVERNMENT OF BRITISH COLUMBIA
DEPARTMENT OF HIGHWAYS
BRIDGE ENGINEER'S OFFICE

BILL No. 1608-X3
SHEET No. 1 of 1
FILE No. 917
MADE BY J.T.W.S.
DATE MAY, 23/59
CHECKED BY P.P.
DATE Nov 6/59

BILL OF REINFORCING STEEL

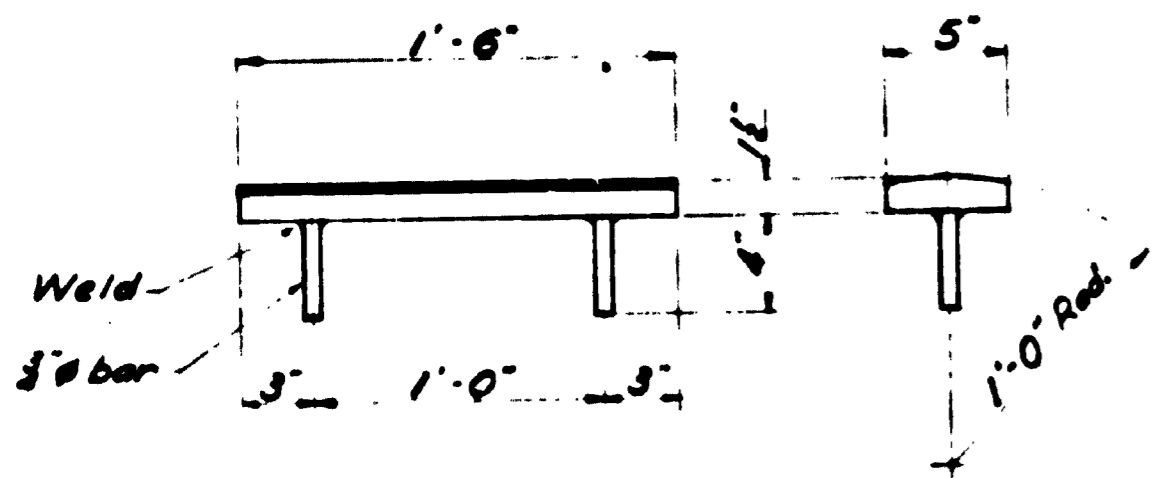
FOR SUPERSTRUCTURE

NAME OF WORK BRADNER ROAD OVERPASS

ITEM No.	No. REQ'D	MARK	SIZE	LENGTH	TOTAL LENGTH	BENDING DIMENSIONS											
						A	B	C	D	E	F	G	H	I	J	K	L
1.			"7		1330	Cut and bend to											
2.			"6		2440	suit Dwg. No. 1608-0											
3.			"5		55120												
4.			"4		42080												

Total weight 93,000 lbs.

Reinforcing bars shall be in accordance with the Canadian Standards Association Specification for Billet Steel Reinforcing Bars No. G30-1938 or with the Specification for Rail Steel Reinforcing Bars No. G31-1938 and subsequent revisions thereof.



BEARING DETAILS

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

No. required = 20
Estimated weight of each = 395 lbs.

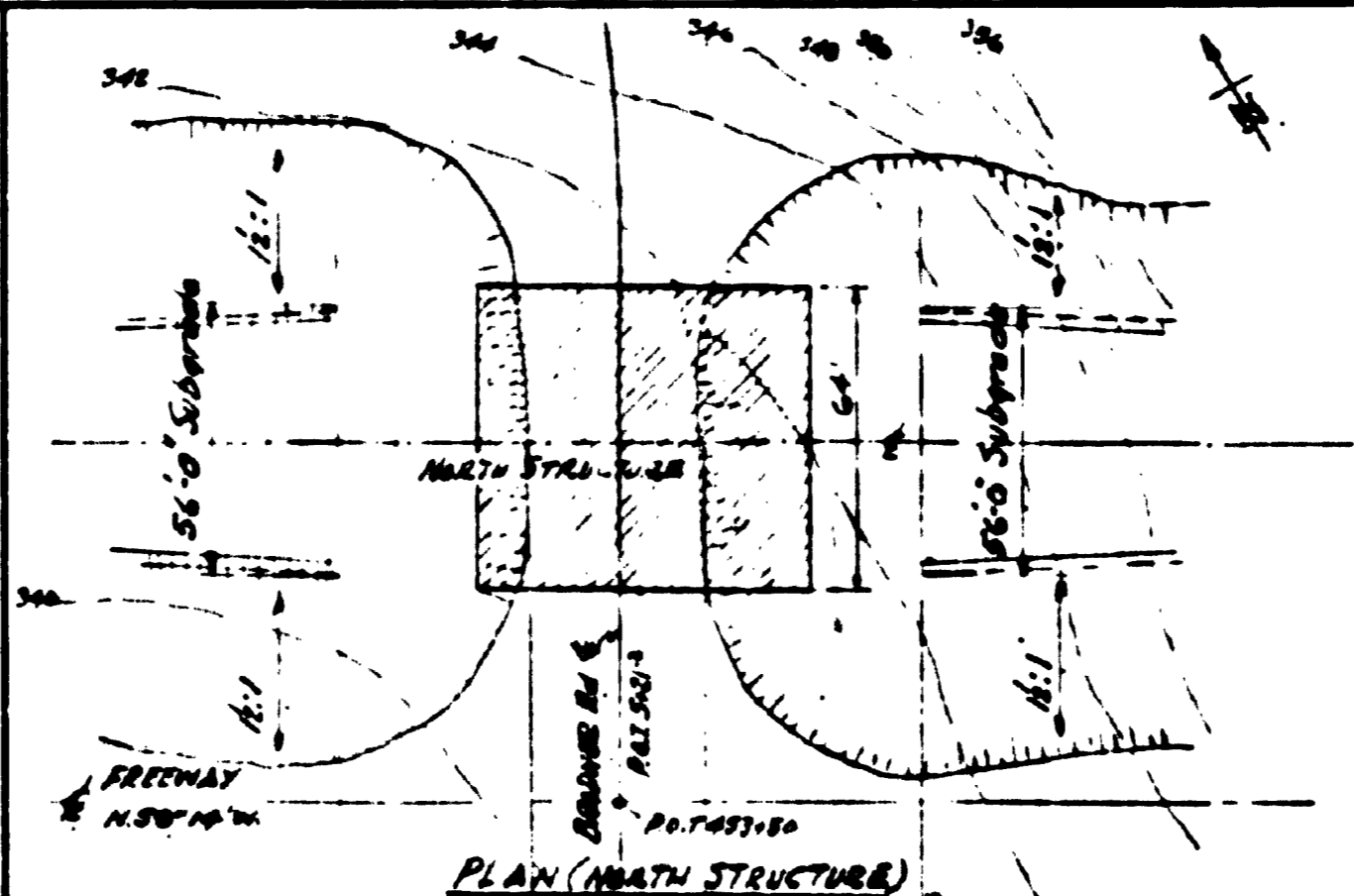
Total weight = 1106 lbs.

GOVT. OF BRITISH COLUMBIA, DEPT. OF HIGHWAYS
BRIDGE ENGINEER'S OFFICE.

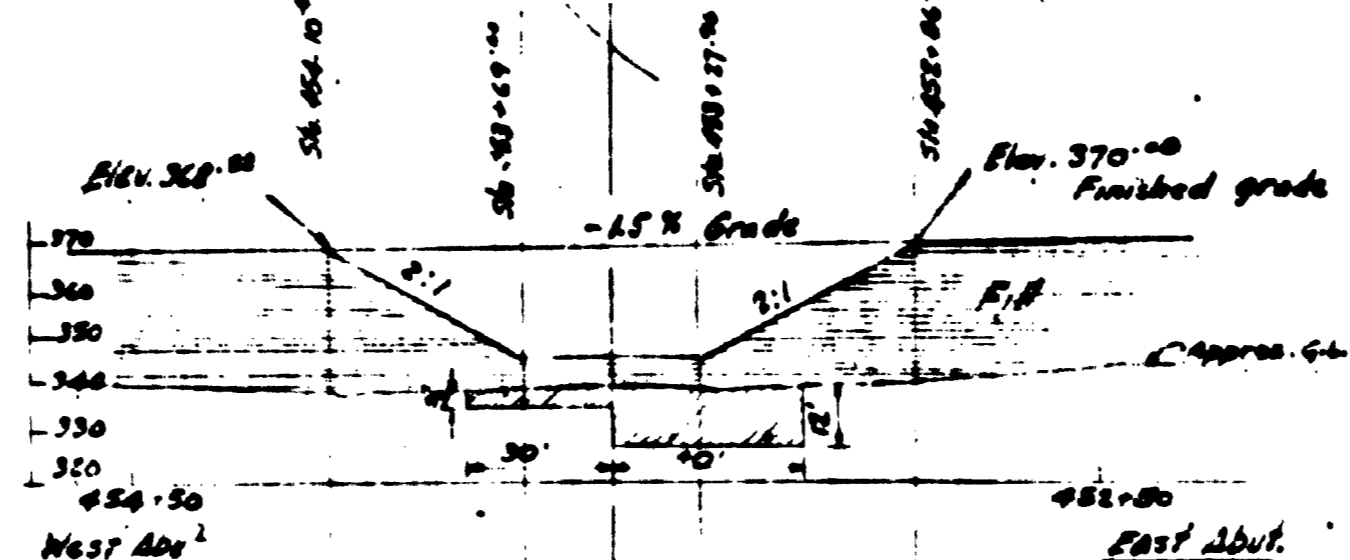
CHILLIWACK DISTRICT
BRADNER ROAD OVERPASS
BEARINGS

Made by	Checked by
Inch. Date	Inch. Date
W.T.W. 5/11/59	P.P. 11/1/59
Approved:	

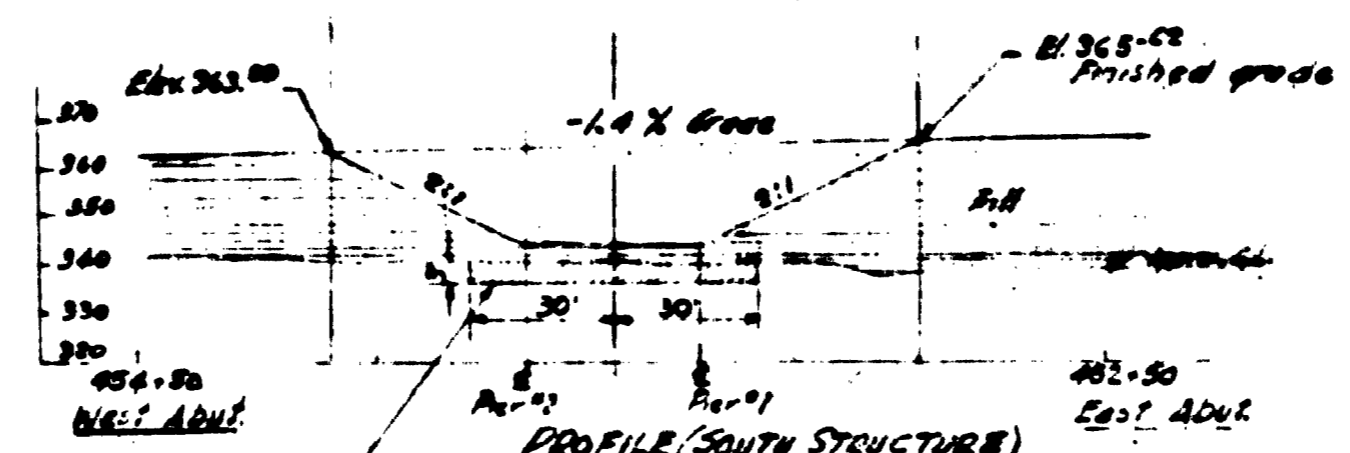
S. K.
BRIDGES
1608-7



PLAN (NORTH STRUCTURE)



PROFILE (NORTH STRUCTURE)



PROFILE (SOUTH STRUCTURE)

Note: 60" or 42" x 5" deep excavation for Piers N1 & N2 on South Structure only.

Scale: 1" = 40 FT.

GOVT. OF BRITISH COLUMBIA, DEPT. OF HIGHWAYS
BRIDGE ENGINEER'S OFFICE.

TRANS-CANADA HIGHWAY MILE 105.01
BRADNER RD. OVERPASS
P.LACING OF FILLS

Made by	Checked by
Inch. Date	Inch. Date
W.T.W. 5/11/59	P.P. 11/1/59
Approved:	

S. K.
BRIDGES
1608-8

DEPARTMENT OF HIGHWAYS
BRIDGE ENGINEER'S OFFICE

SCHEDULE OF MATERIAL
FOR BRADNER ROAD OVERPASS
CHILLIWACK DISTRICT
TRANS-CANADA HIGHWAY
MILE 105.01

Sheet No. 1 of 1
Dwg. File No. 1608
Corr. File No. 917
Made by: W.T.W.S.
Date: MAY, 23/59
Checked by: P.P.
Date: Nov. 6, 59

ITEM	QUANTITY	DESCRIPTION	BILL	DRAWING	WEIGHT POUNDS	REQ'D
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SUBSTRUCTURE

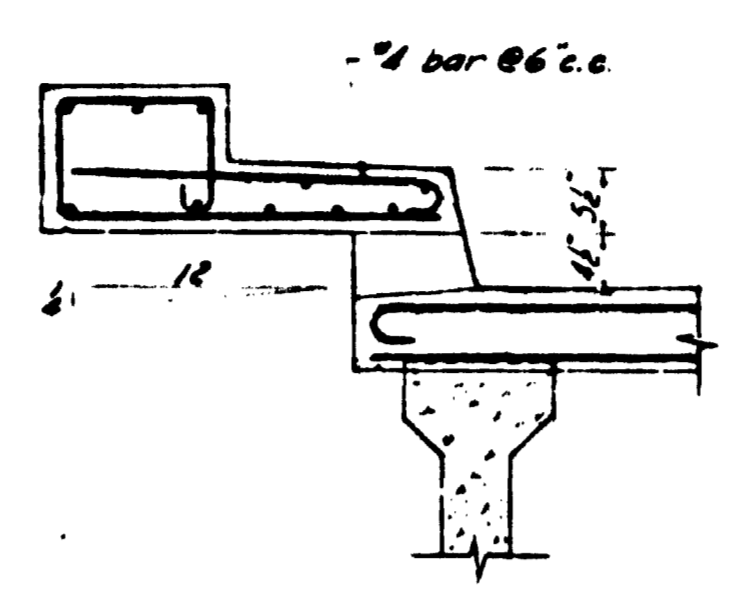
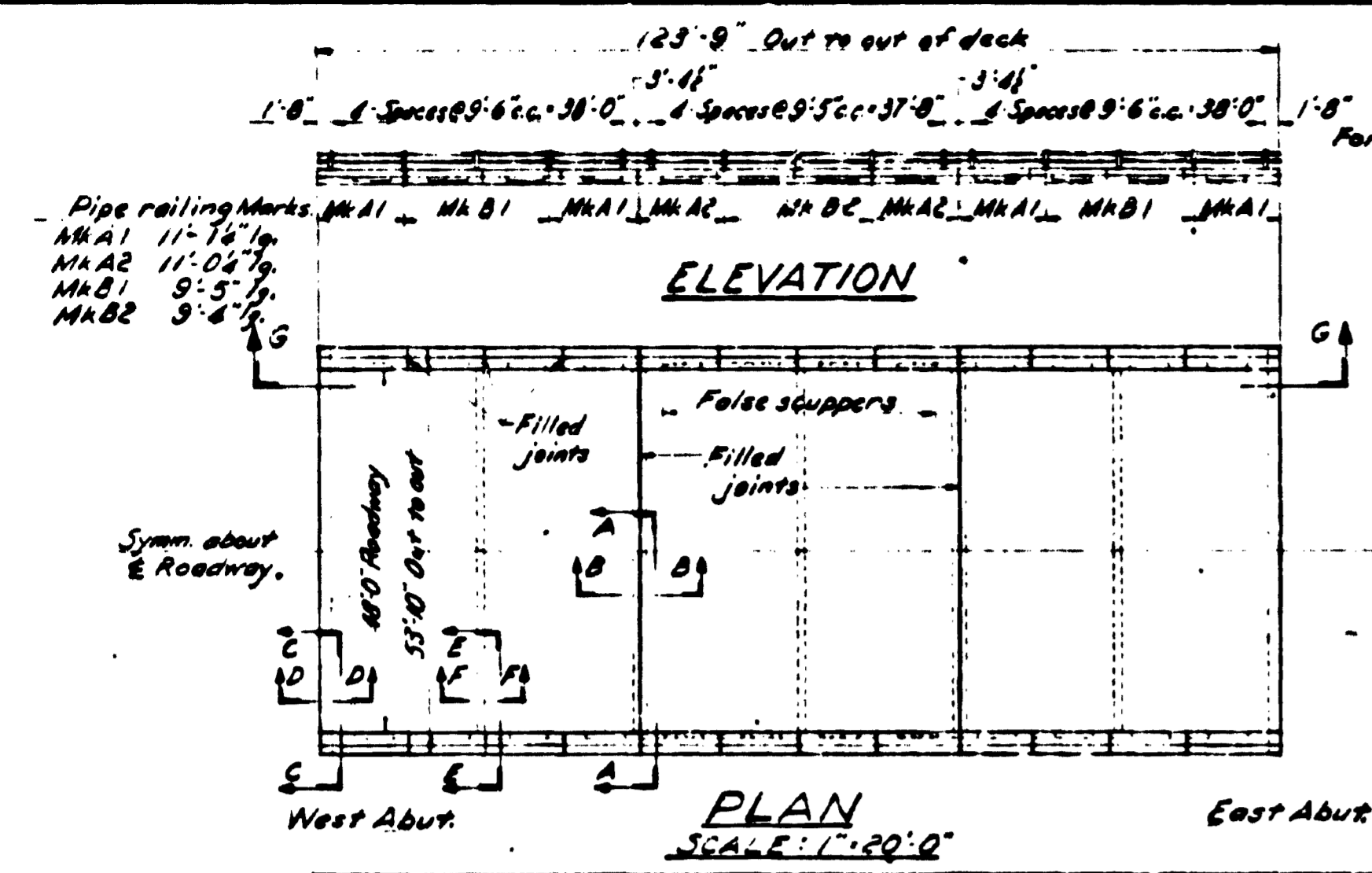
- 3395 lbs. Cement
- 1 Lot. Reinforcing steel X2 1608-4 37,300
- 16 gals. Air Entraining Agent

SUPERSTRUCTURE

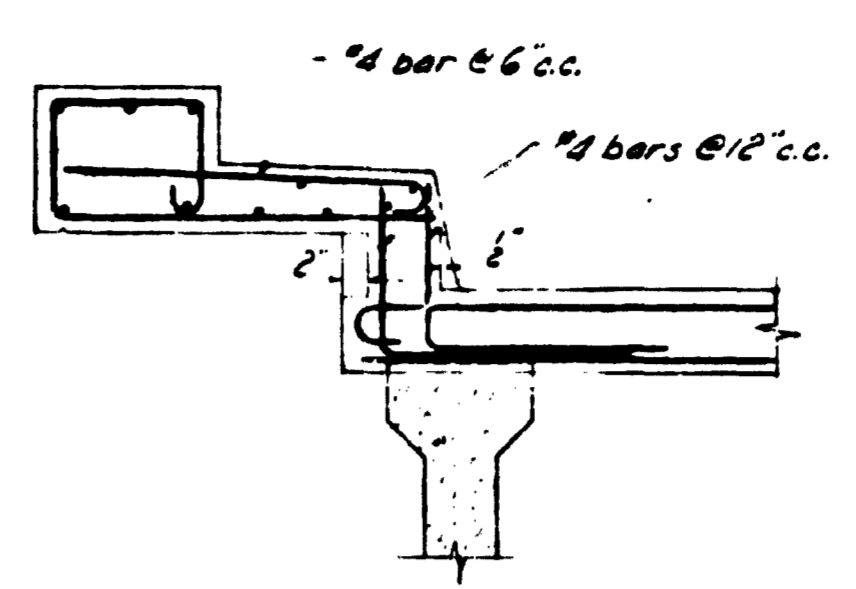
- 42 only Prestressed concrete Stringers 41'-0" lg. 1608-5
- 1 Lot. Bearings X2 1608-7 1106
- 382-5 lbs. Rails for Pipe Railing X1
- 60 only. Railing Post Assemblies 587-9B
- 48 only. Rail Caps 587-9B
- 2 qts. Alkali Resistant Bituminous Paint
- 6 lbs. Aluminum Impregnated Caulking Compound

DECK

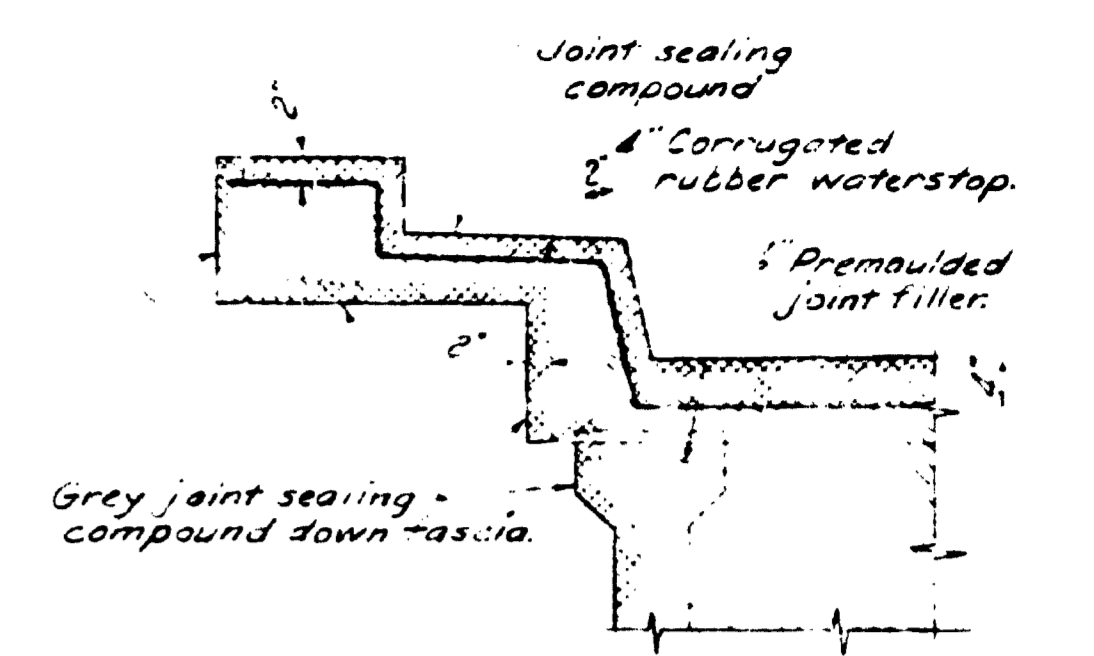
- 2576 lbs. Cement
- 1 Lot. Reinforcing steel X3 1608-6 93,000
- 26 gals. Joint sealing compound
- 8 gals. Grey joint sealing compound
- 220' lin ft 4" corrugated rubber waterstop
- 700' lin ft 2" x 2" pre-moulded joint filler
- 200' lin ft 2" x 4" " " " "
- 480' lin ft 2" x 8" " " " "
- 28' pos. 6" Lead sheet 18" x 15"
- 12 gals. Air entraining agent
- 2 rolls. Saturated cotton fabric 36" wide x 50' lg.
- 10 gals. Asphalt waterproof gum



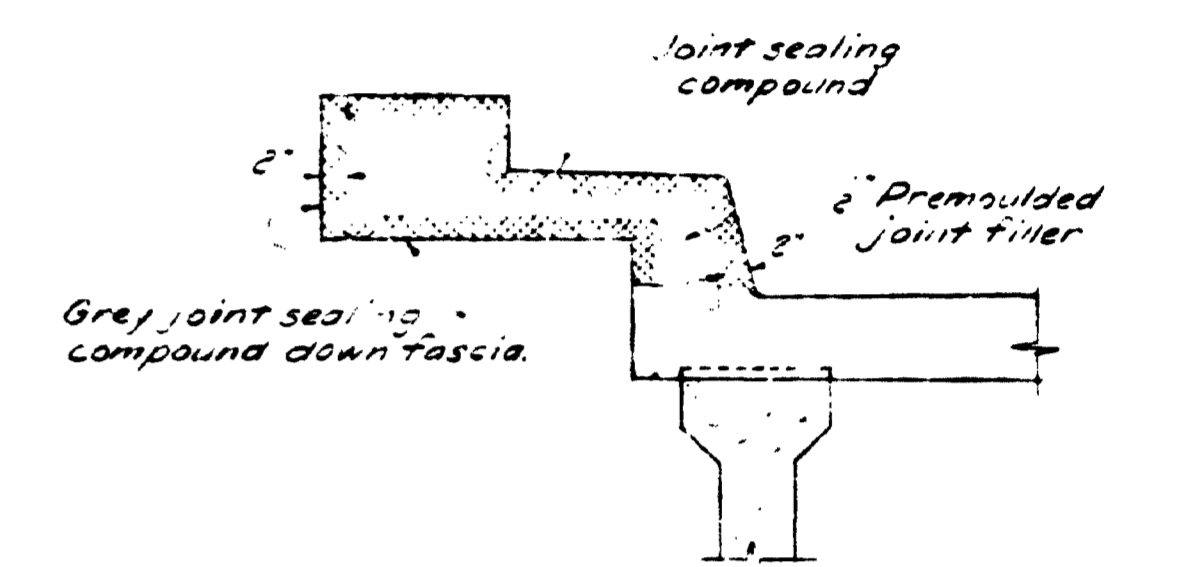
SECTION AT SCUPPERS
SCALE: 3/4" = 1'-0"



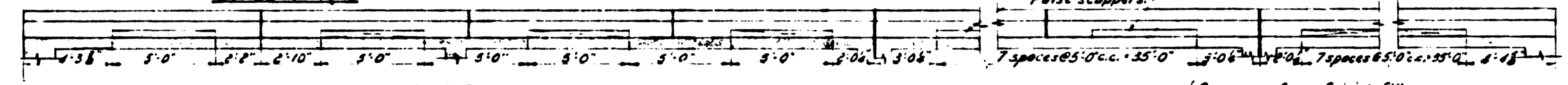
SECTION AT FALSE SCUPPERS
SCALE: 3/4" = 1'-0"



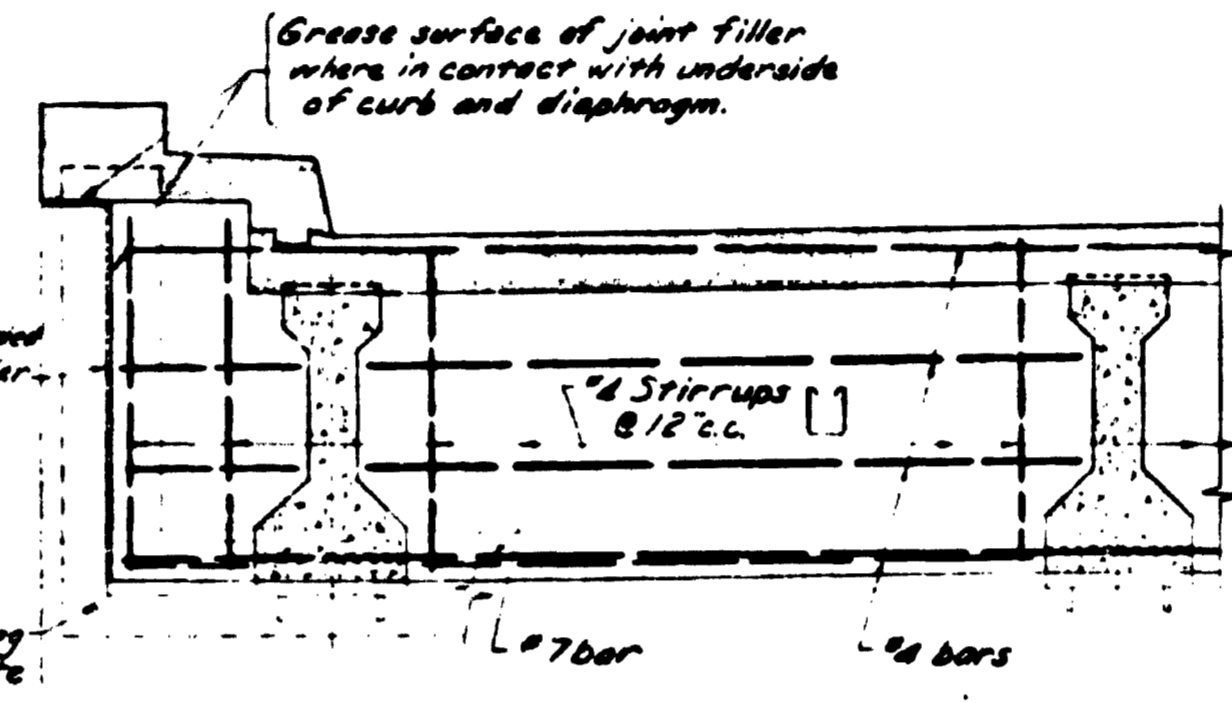
SECTION AT FILLED JOINT THROUGH DECK
SCALE: 3/4" = 1'-0"



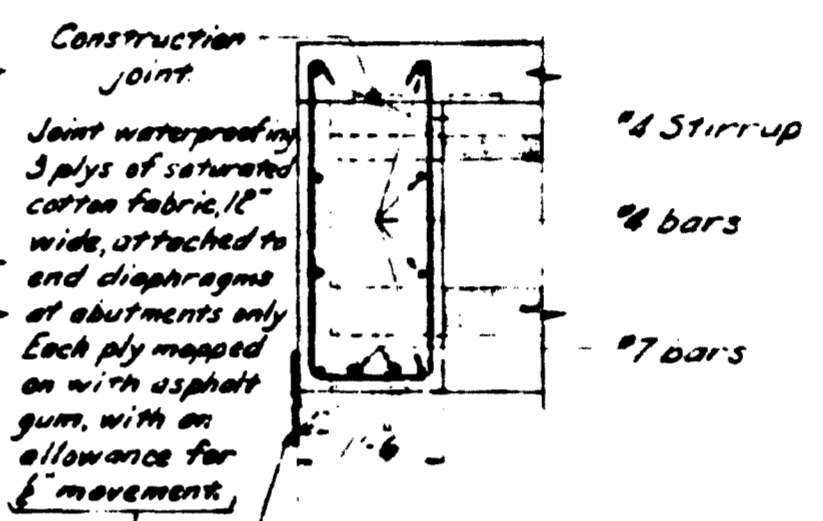
SECTION AT FILLED JOINT THROUGH CURB
SCALE: 3/4" = 1'-0"



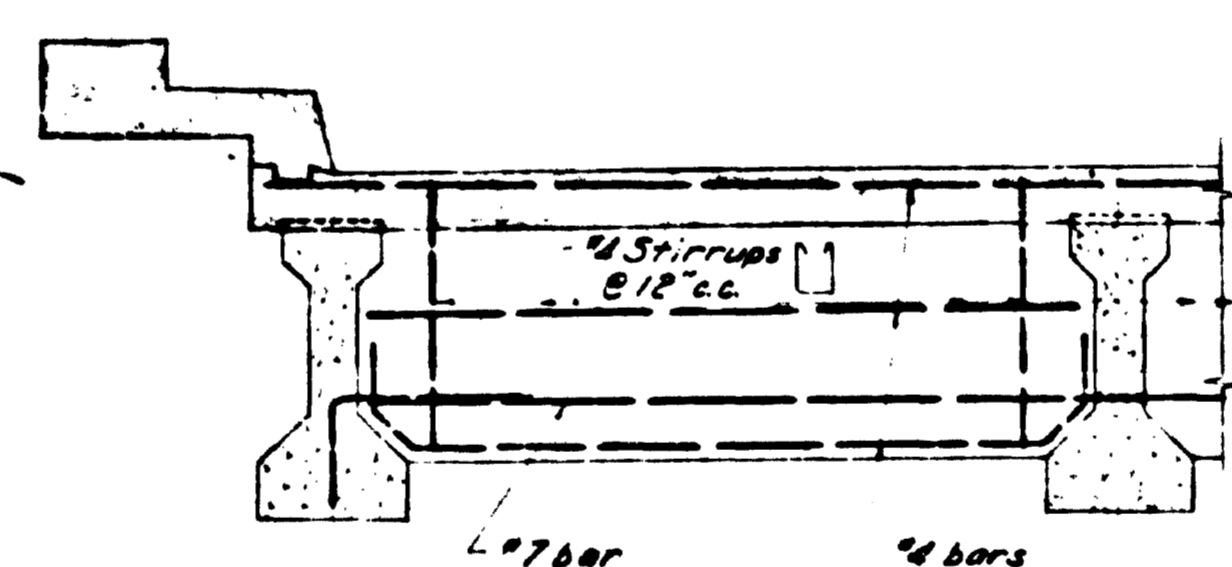
SECTION G-G



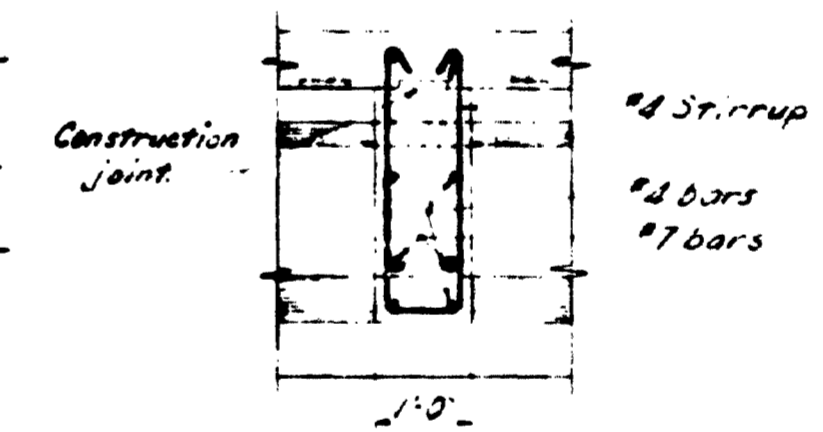
SECTION C-C



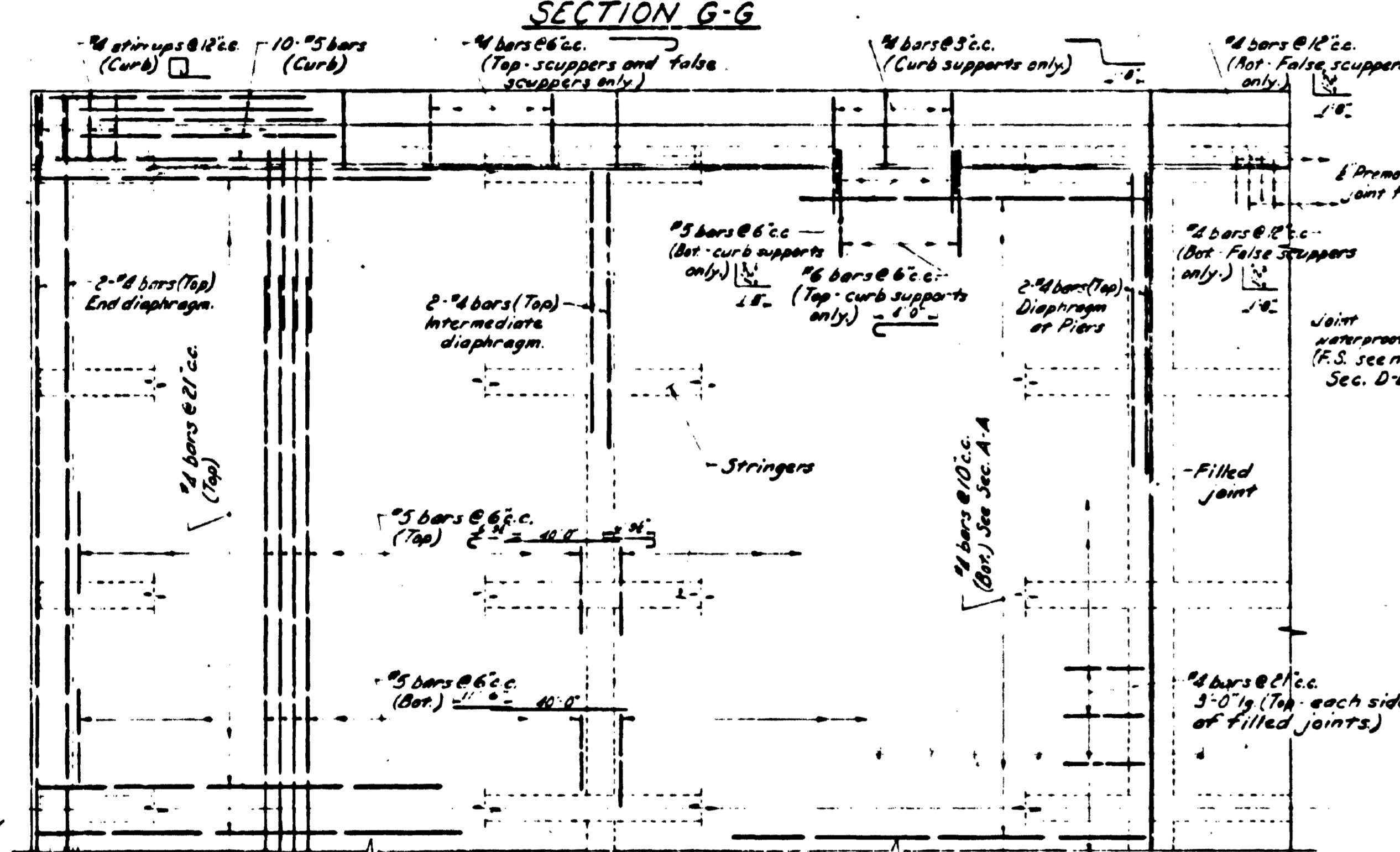
SECTION D-D



SECTION E-E



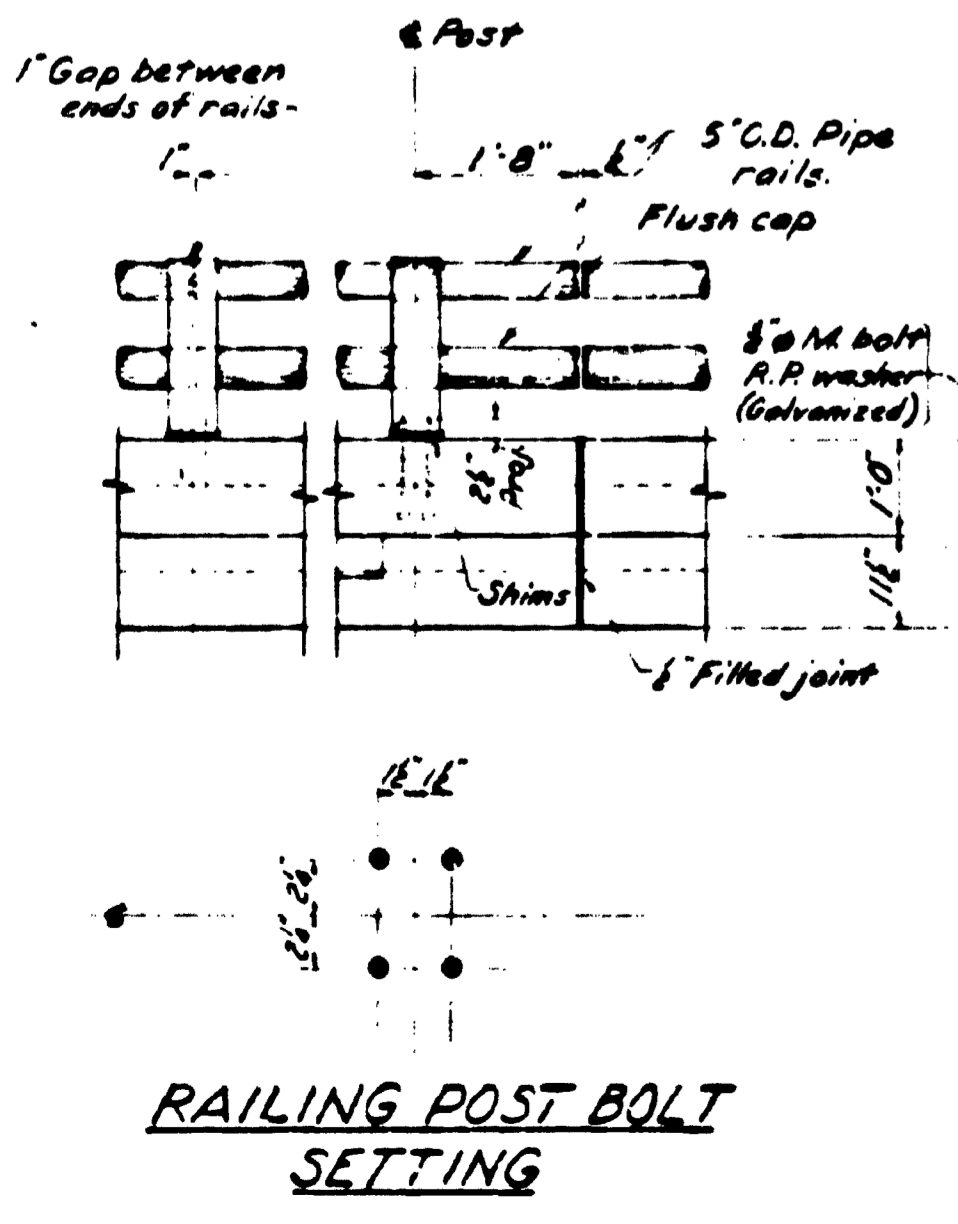
SECTION F-F



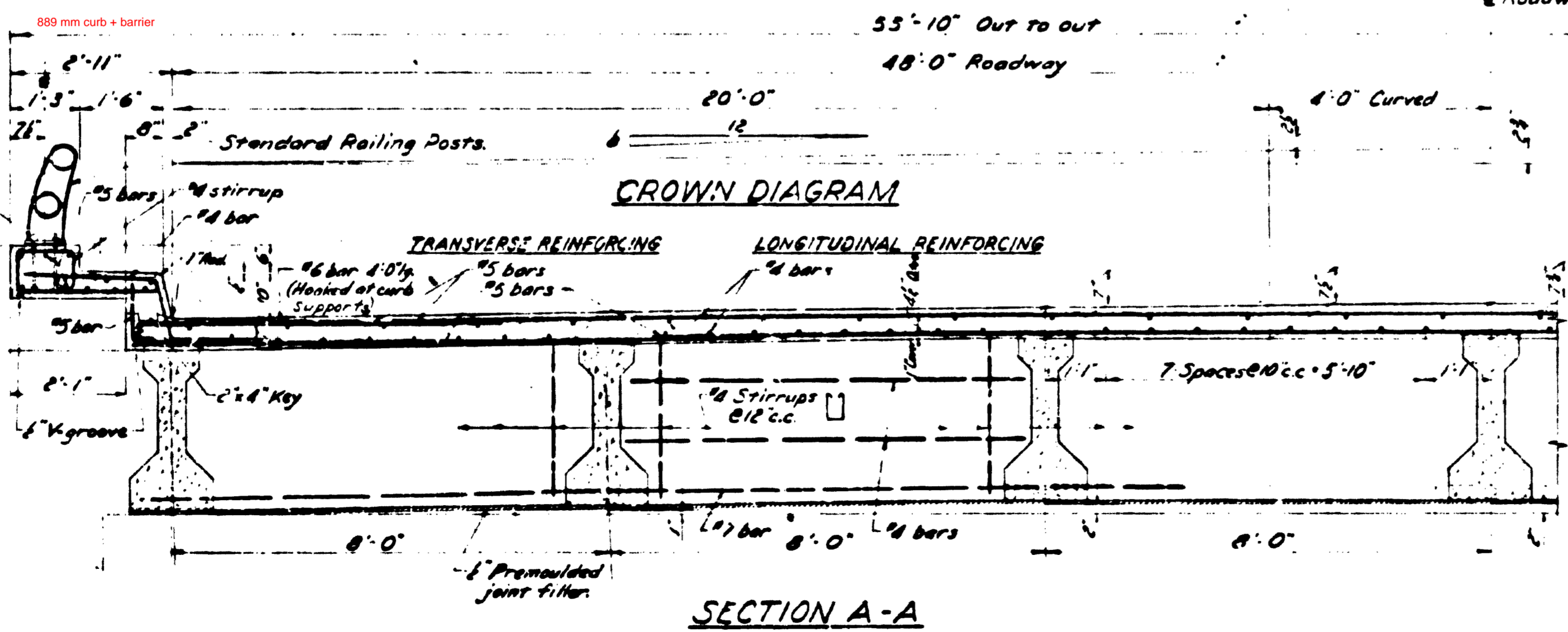
PART PLAN
SCALE: 3/4" = 1'-0"

- NOTES:
- All concrete to be Class 'A'.
 - Concrete for each span to be poured in one continuous operation.
 - Curbs to be formed and poured after roadway slab is set.
 - Scraper for deck concrete shall be set to provide for a uniform grade from end to end of the bridge and to accommodate the hogging of the stringers, to be measured in the field, and also a dead load deflection of 1/8" at centre of span.
 - All diaphragms to be placed and to have attained a cylinder strength of 2000 lbs. p.s.i. prior to pouring of deck slab.
 - All exposed edges to have 1/2" chamfer unless noted otherwise.
 - All reinforcing steel to be Structural grade.
 - Reinforcing steel to have 1/2" cover unless noted otherwise.
 - Minimum diam. of pins to be used for bending bars, including hooks, to be 2 1/2" for ties and 6 1/2" for #8 bars and under. Extension of free ends on hooks to be 4 1/2". Laps of bars for splices to be 40 1/2". Splices to be staggered.

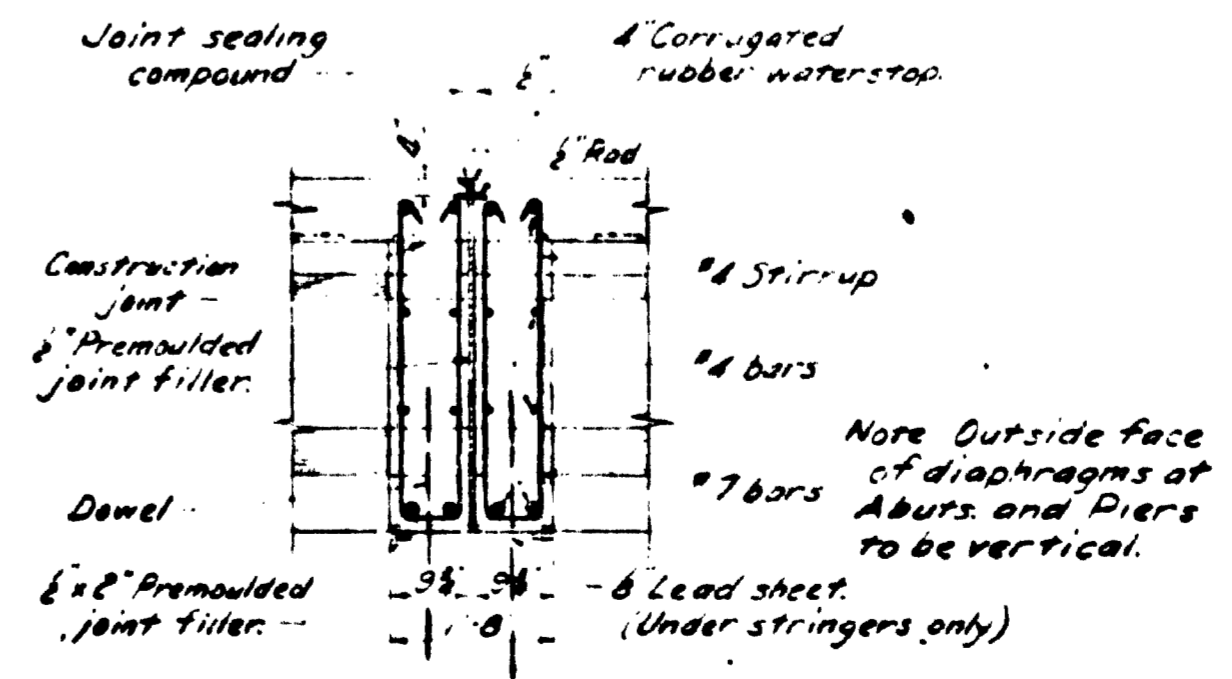
ESTIMATED QUANTITIES		
Item	Concrete	Reinforcing steel
North Structure-Deck	28 cu. yds.	46 500 lbs.
South Structure-Deck	28 cu. yds.	46 500 lbs.
Diaphragms	10 1/2 cu. yds.	3 300 lbs.



RAILING POST BOLT SETTING



SECTION A-A



SECTION B-B

CHILLIWACK DISTRICT
TRANS-CANADA HIGHWAY MILE 105.0!
BRADNER ROAD OVERPASS
DECK DETAILS
SCALE: 3/4" = 1'-0" AND AS NOTED

REVISIONS			
Rev.	Particulars	Date	Date
1	A. B. S. 1	10/14	11/20

GOVT. OF BRITISH COLUMBIA
DEPT. OF HIGHWAYS
BRIDGE ENGINEER'S OFFICE

Made by: T. A. SWARTZ
Checked by: C. G. W. 10
Approved: [Signature]

DRAWING NO. 1608-6

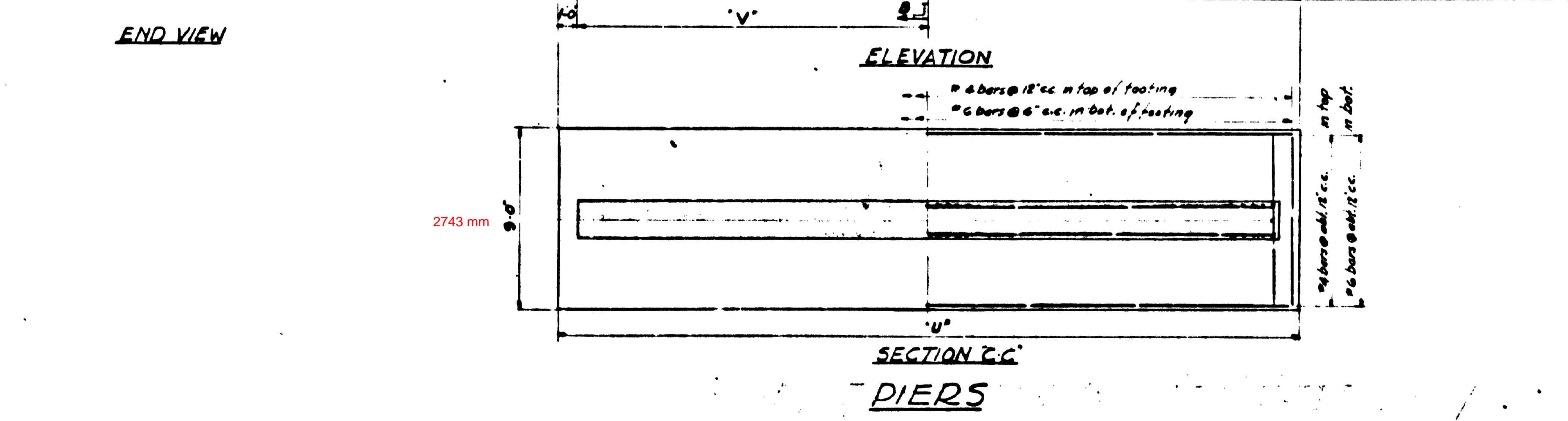
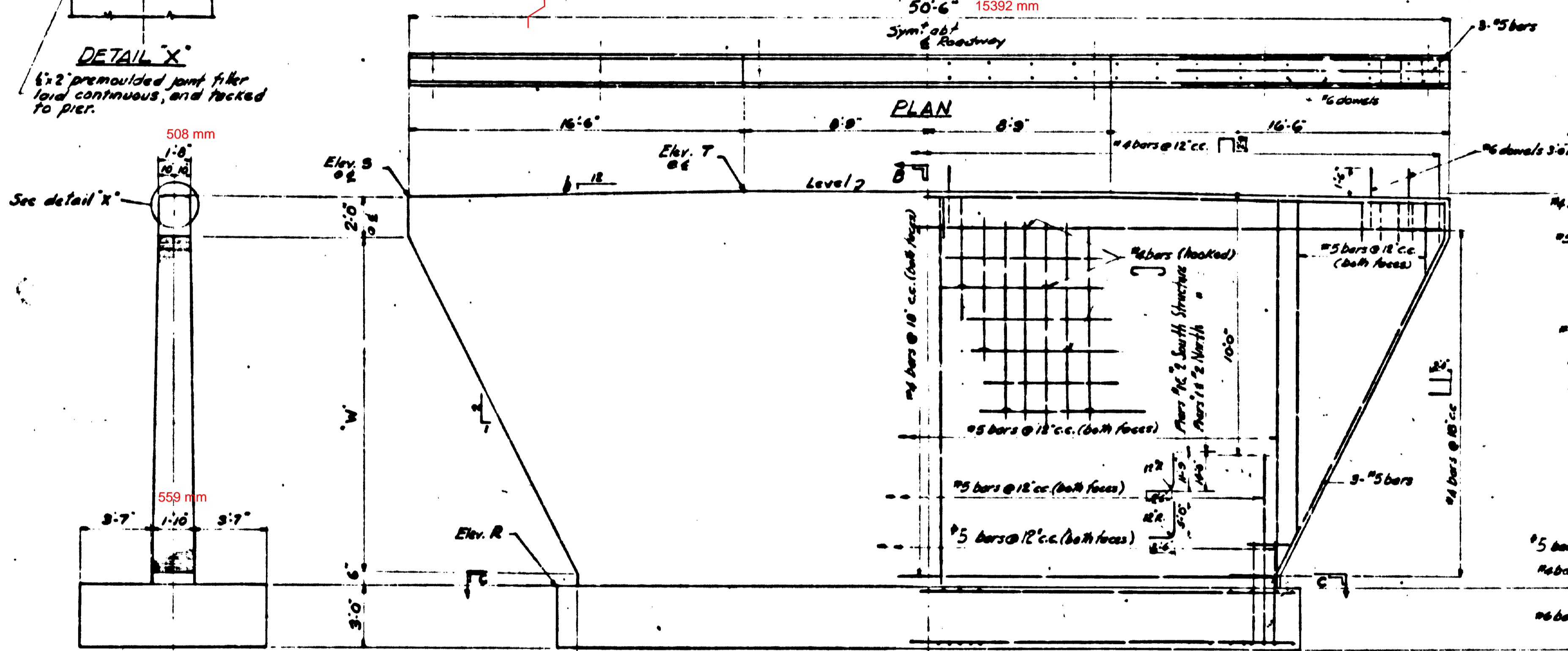
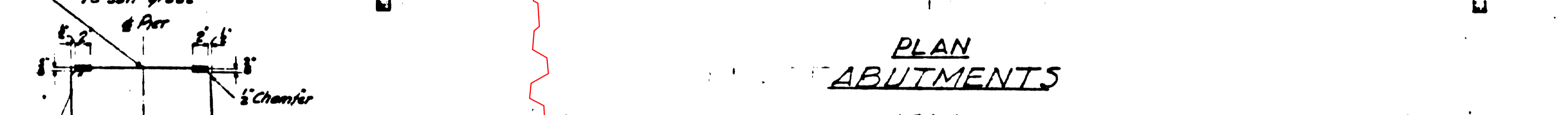
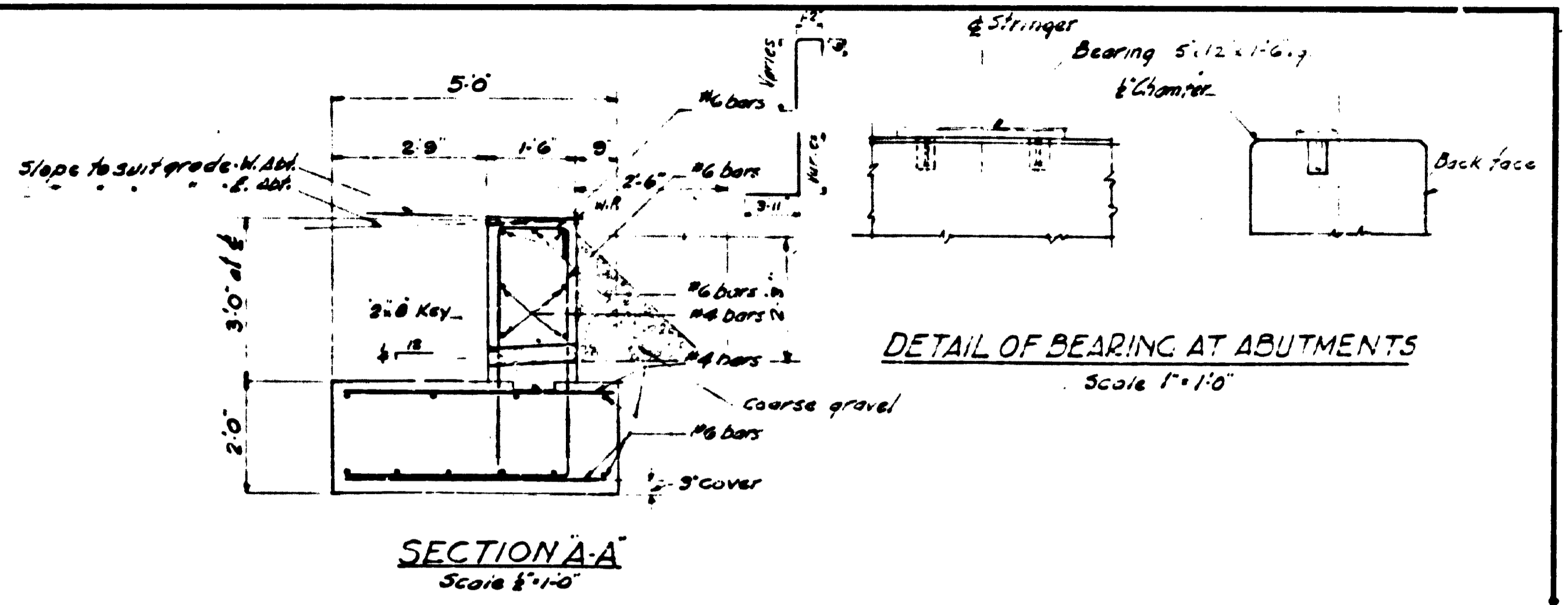
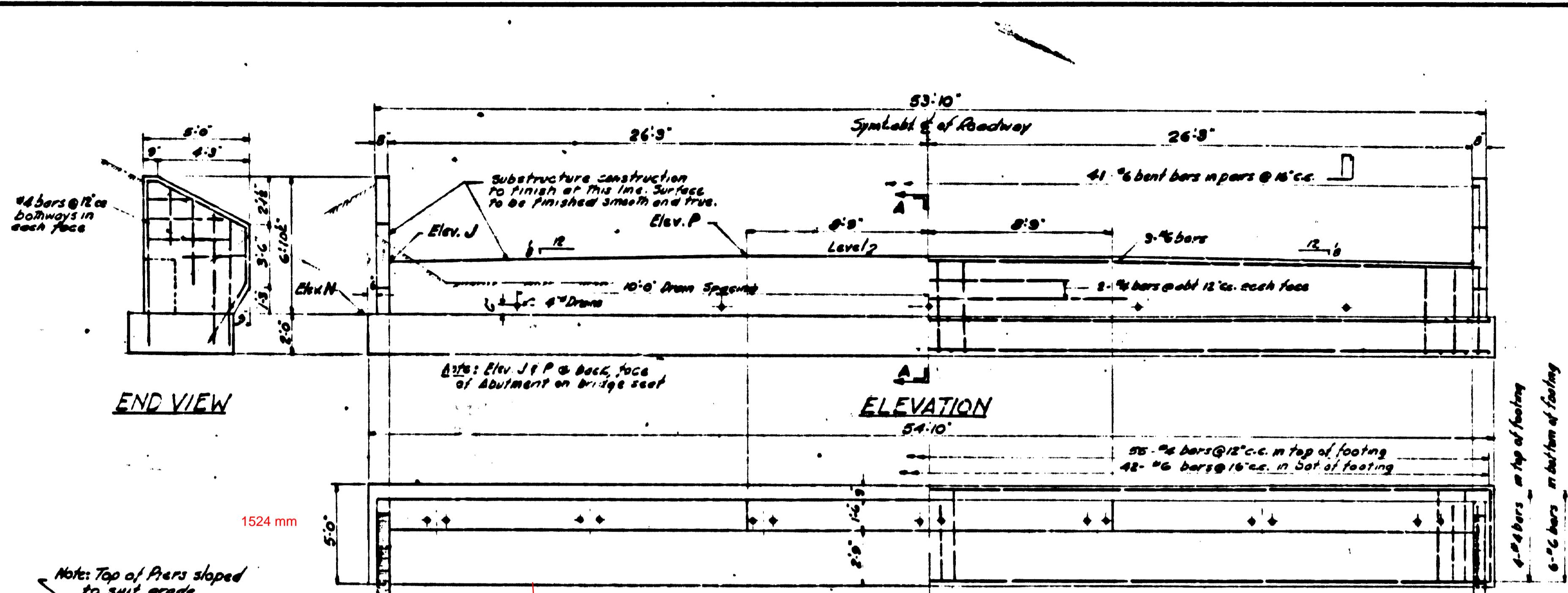


TABLE OF DIMENSIONS

D.M.	NORTH STRUCTURE		SOUTH STRUCTURE	
	Pier #1	Pier #2	Pier #1	Pier #2
W	18'-8"	18'-8"	16'-4"	16'-6"
V	15'-11"	15'-11"	17'-1"	17'-1"
U	33'-10"	33'-10"	36'-2"	36'-2"
ELEV.				
T	365.80	365.18	361.39	360.91
S	365.02	365.00	361.28	360.63
R	344.45	343.83	342.37	341.81
ELEV.	East Abt.	West Abt.	East Abt.	West Abt.
P	360.31	364.45	361.85	360.48
J	366.12	364.36	361.66	359.93
N	363.31	361.45	358.85	359.12

ESTIMATED QUANTITIES

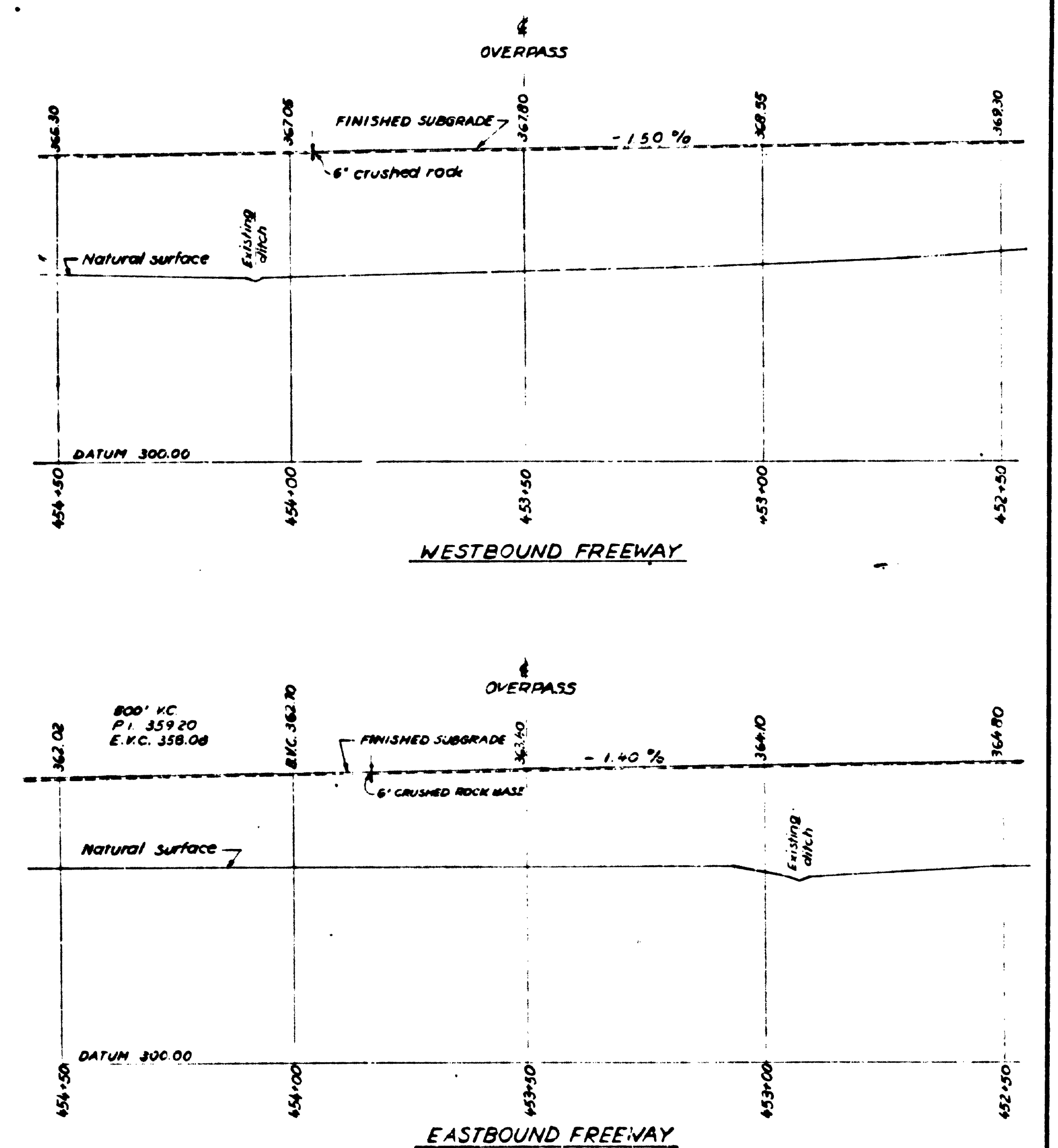
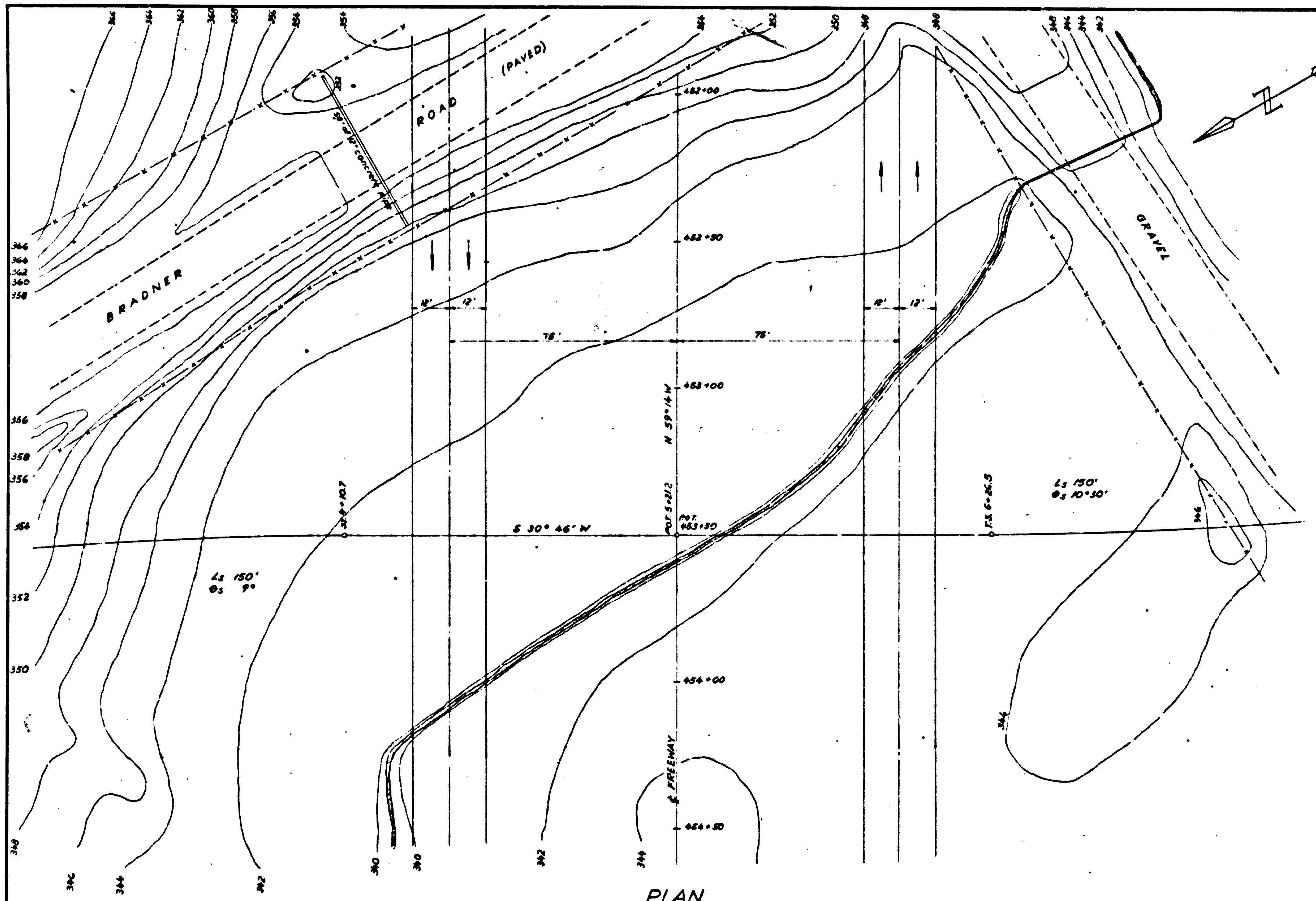
	North Structure		South Structure	
	Concrete	Reinforcing	Concrete	Reinforcing
East Abutment	31.0	2600	31.0	2600
West Abutment	31.0	2600	31.0	2600
Pier No 1	91.5	6300	89.0	6650
Pier No 2	91.5	6300	89.0	6650
Totals	Concrete 245.0 cu yds	Reinforcing 37,350 lb		

- NOTES:**
- Concrete to be class 'A' throughout.
 - Exposed edges to be chamfered 1" except where noted otherwise.
 - Reinforcing steel to have 2" cover except where noted otherwise.
 - Reinforcing steel to be structural grade.
 - Reinforcing: Min. diam. of bars to be used for bending bars including hooks to be 2" for stirrups & ties, 1/2" for #8 bars and under. Extensions of free ends on hooks to be 4x diam. Lap bars for sp. bars 40x diam.
 - Continuous horizontal drainage course as shown on this drawing to be drained to drain holes.
 - Open holes in abutments for bearing girders to be filled with sand-cement grout by the erector immediately before placing stringers.

**CHILLIWACK DISTRICT
TRANS-CANADA HIGHWAY MILE 105.01
BRADNER ROAD OVERPASS
PIERS AND ABUTMENTS
SCALE AND AS NOTED**

REVISIONS			GOVT. OF BRITISH COLUMBIA DEPT. OF HIGHWAYS BRIDGE ENGINEER'S OFFICE
No.	Particulars	Date	
A	As built	Nov. 5/59	Made by: <i>[Signature]</i> 11/5/59 Checked by: <i>[Signature]</i> 11/6/59 Approved: <i>[Signature]</i>

DRAWING NO. 1608-4



CHILLIWACK DISTRICT
 TRANS-CANADA HIGHWAY
 BRADNER ROAD OVERPASS
 SITE PLAN
 SCALE: 1" = 20'-0"

REVISIONS			
No.	Particulars	Date	By

GCVT. OF BRITISH COLUMBIA DEPT. OF HIGHWAYS BRIDGE ENGINEER'S OFFICE			
Made by	J.P.S.	Date	June 9/58
Checked by	D.L.	Date	June 1/58
Approved			
DRAWING NO.			1608-2
BRIDGES			

Location Branch survey by: J.P.S.
 Drawn by: D.A.D. March 3 1958