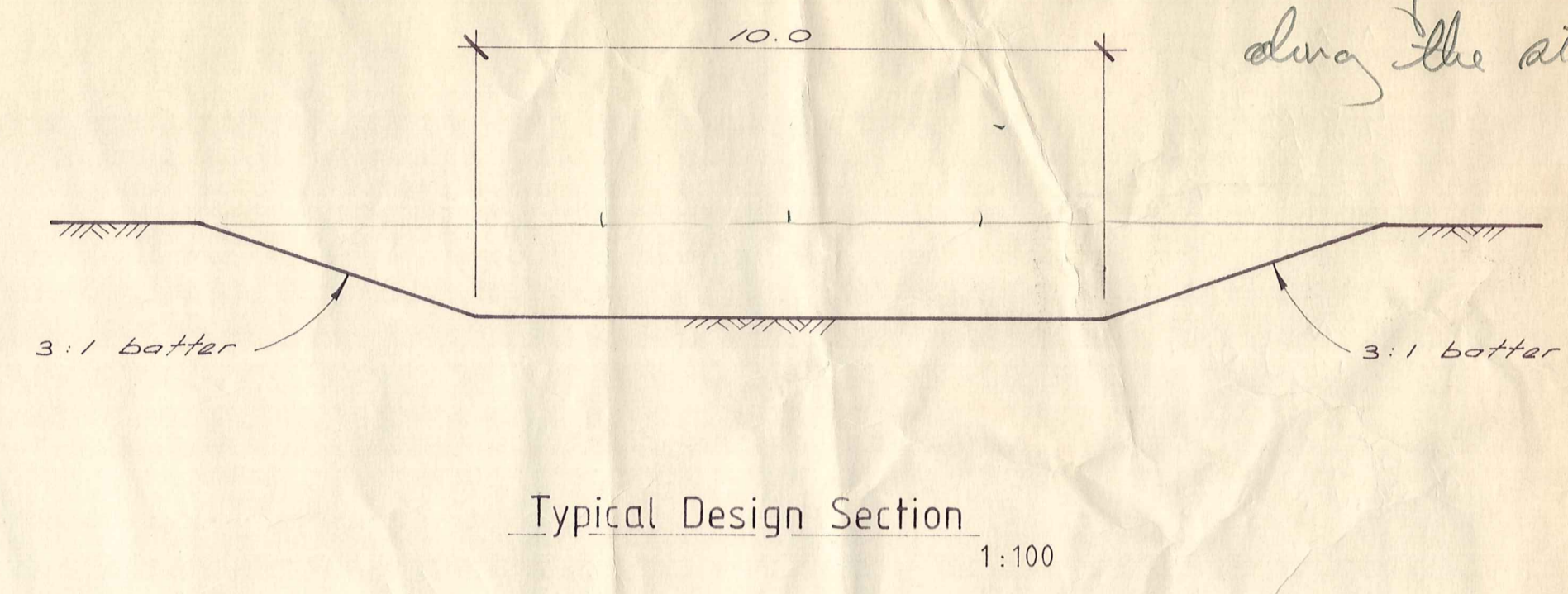
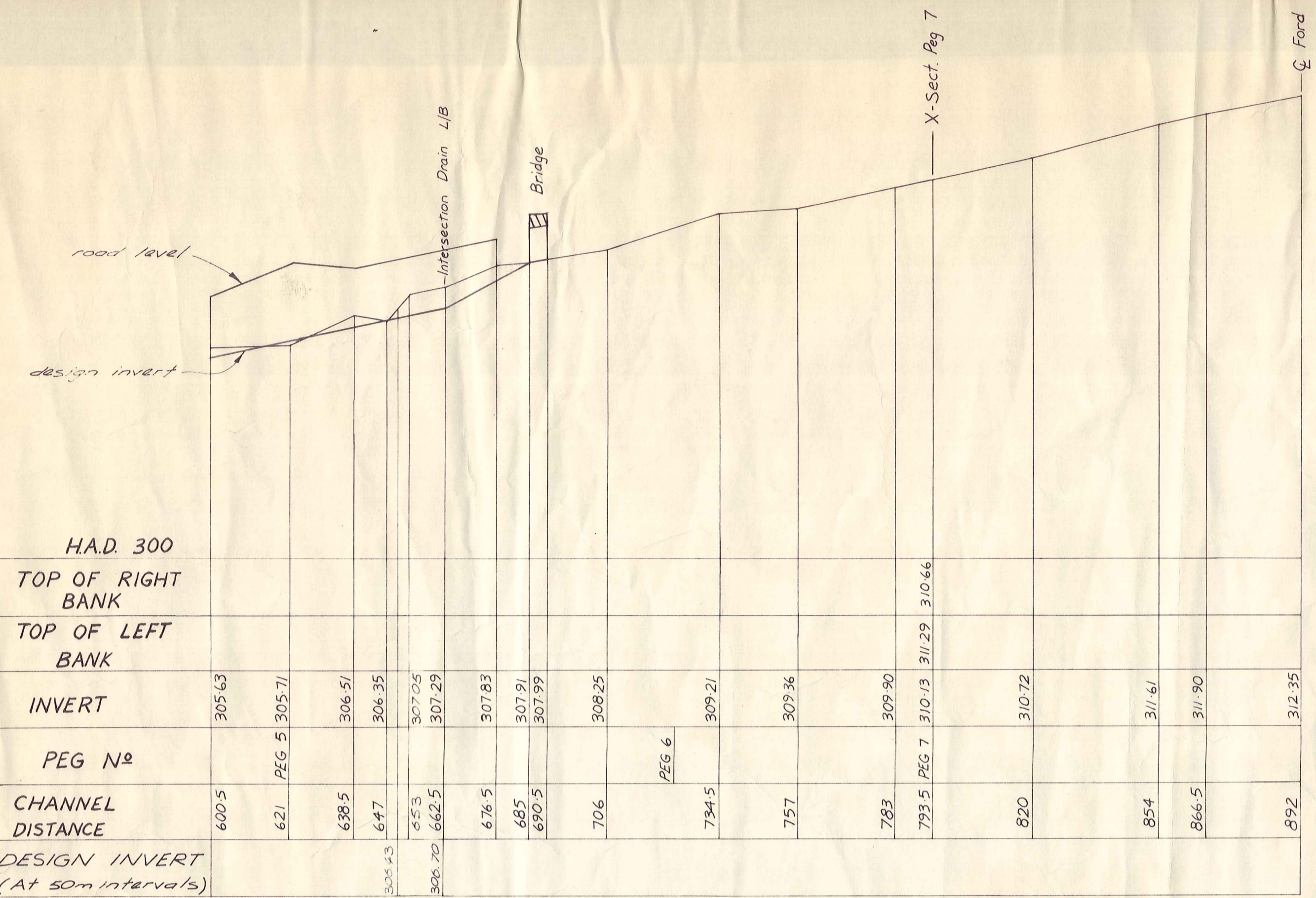
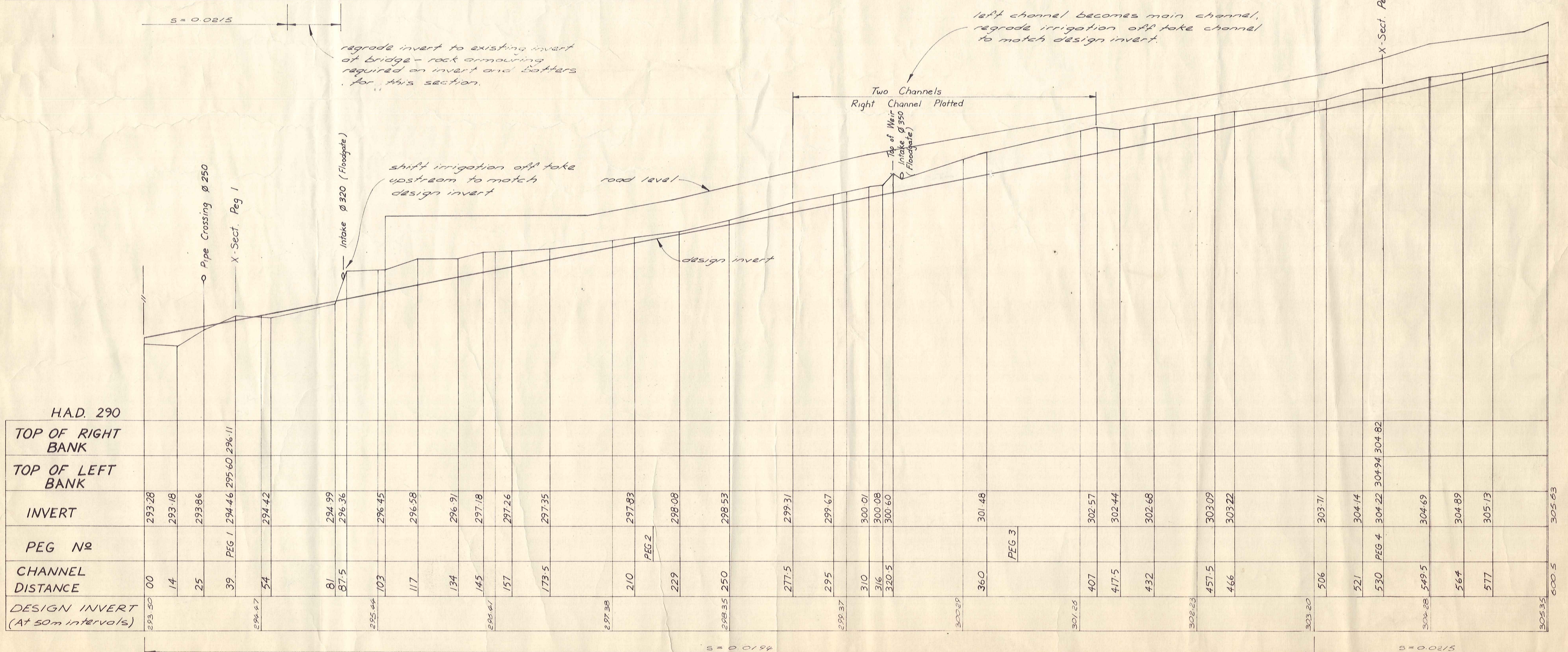


Change Bed Design to 5 metre wide with steep bank of 1.5 metre high along the side



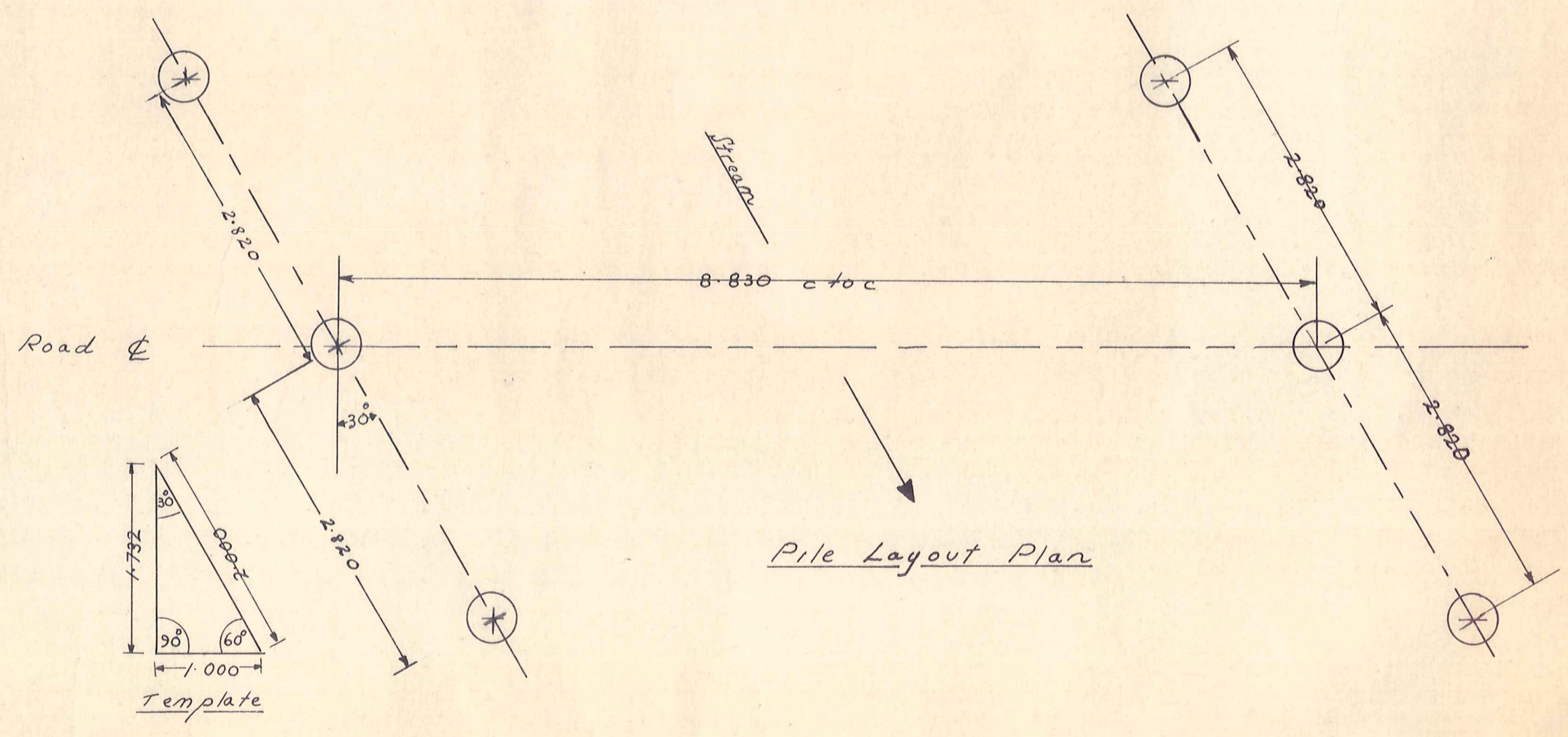
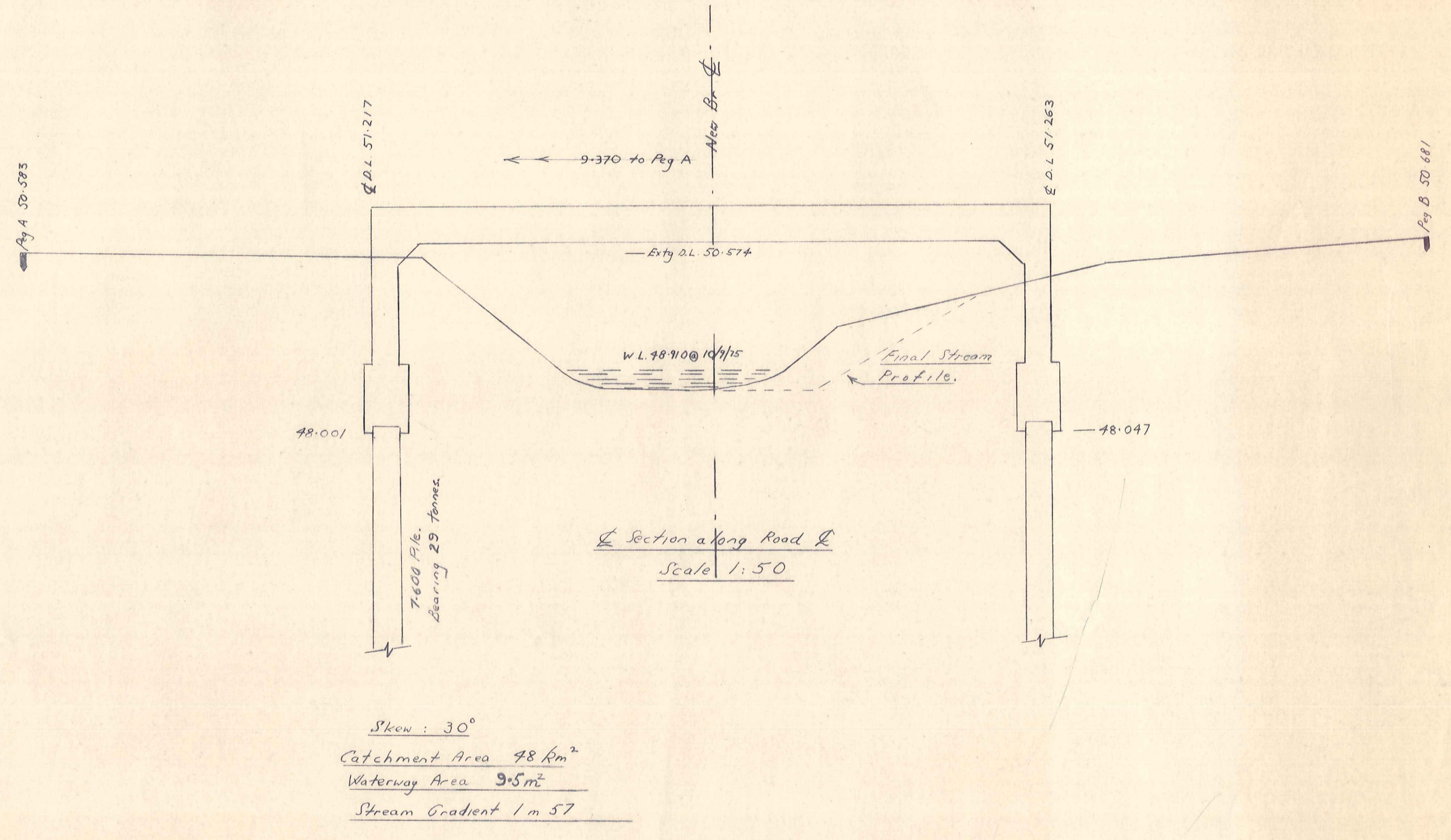
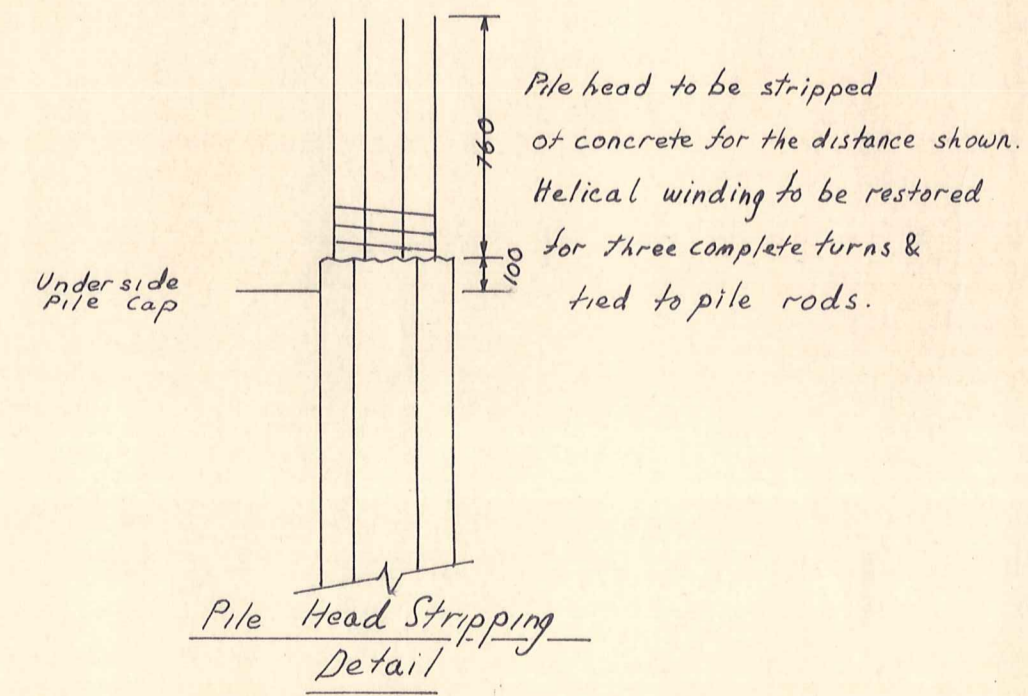
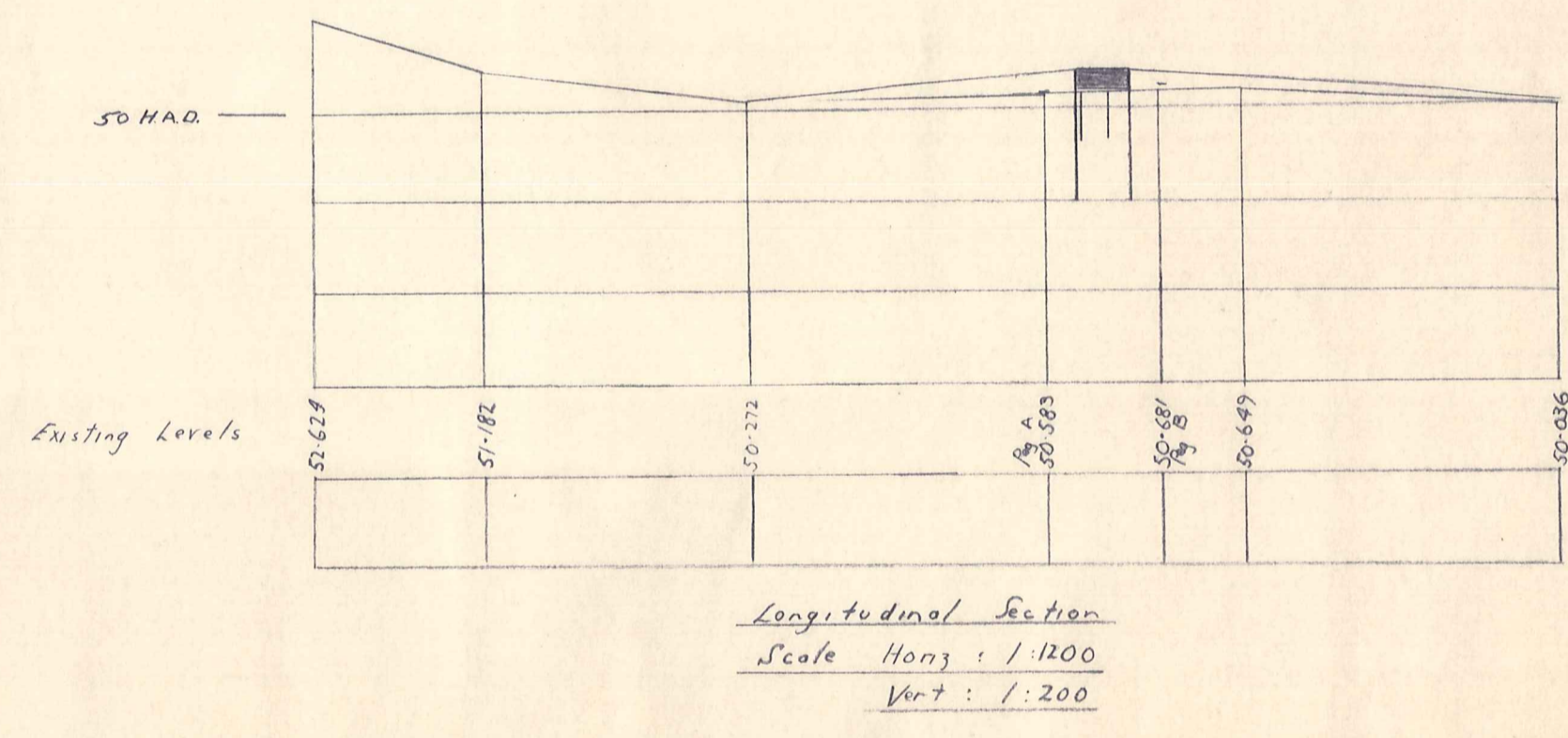
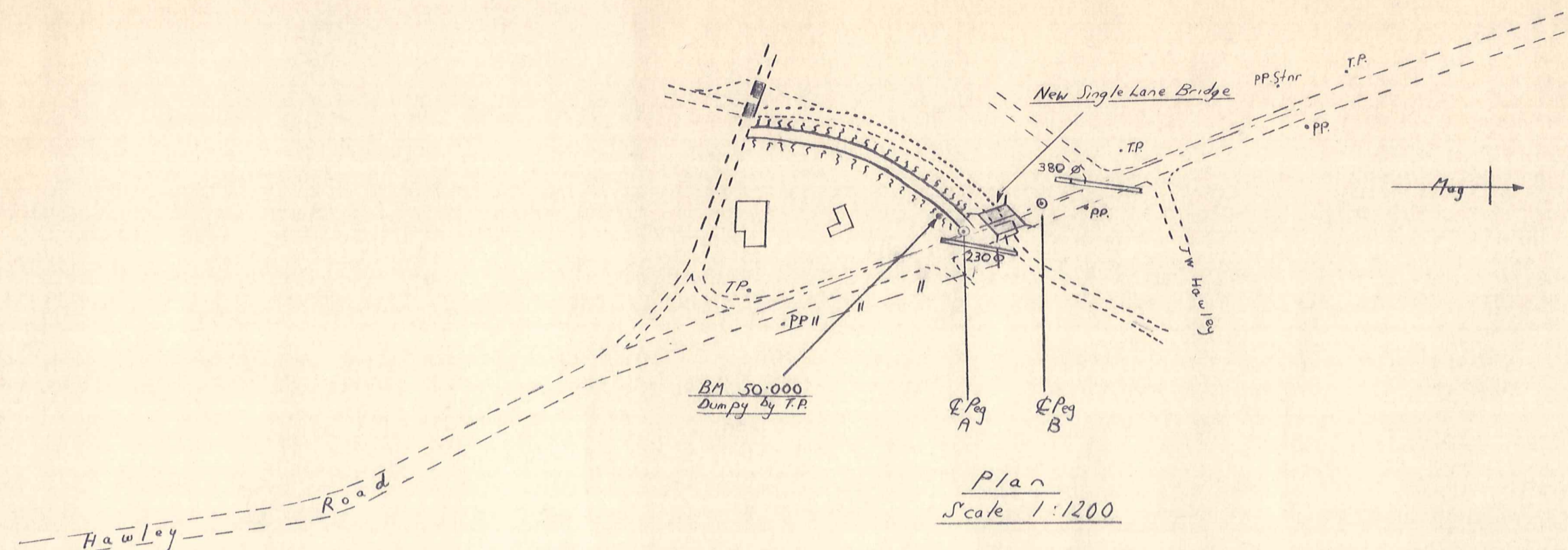
2 year return period flow = 45 m<sup>3</sup>/s (approx. 0.9m freeboard to road level)  
5 year return period flow = 73 m<sup>3</sup>/s (approx. at road level)



Longitudinal Section 1:1000 hor. 1:100 vert.

LEVEL DATUM OTAGO	AMENDMENTS	RECOM'D	APPD	DATE	NAME	DATE	APPROVED	OTAGO	CATCHMENT	BOARD	JOB No.	C. No.
BEARING ORIGIN Geodetic					T.R. Milton	April '86	<i>D. Hamilton</i>	OMEO CREEK DESIGN CHANNEL			11783 / 2	SHEET 2 OF 3
SOIL AND WATER CONSERVATION FARM PLAN No					M.R. Constable	May '86						
					M.R. Constable R.A.V. Dovey	May '86						
					G.D. Frew	May '86						
					D.J. Hamilton	May '86	D.J. HAMILTON B.E. (Hons.) M.I.P.E.N.Z. Chief Engineer	SCALE AS SHOWN			F.B.	LB.436

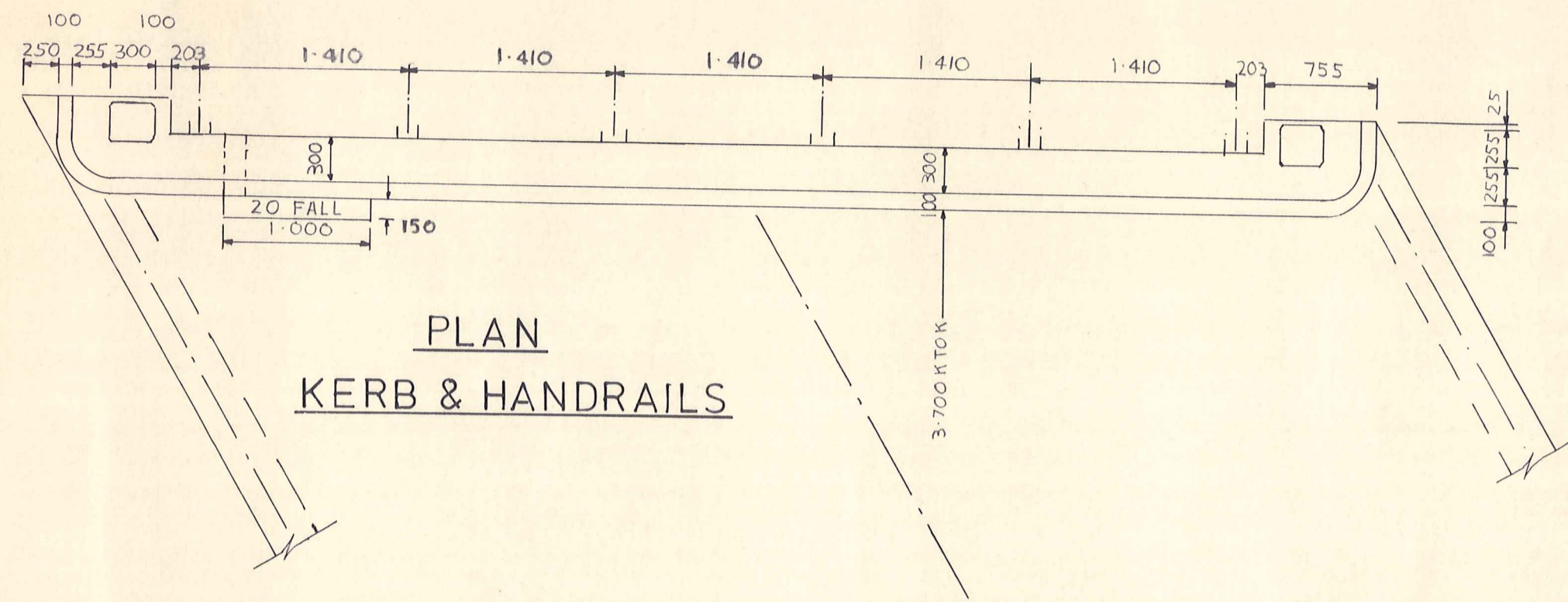




ORIGINAL SIZE INCHES

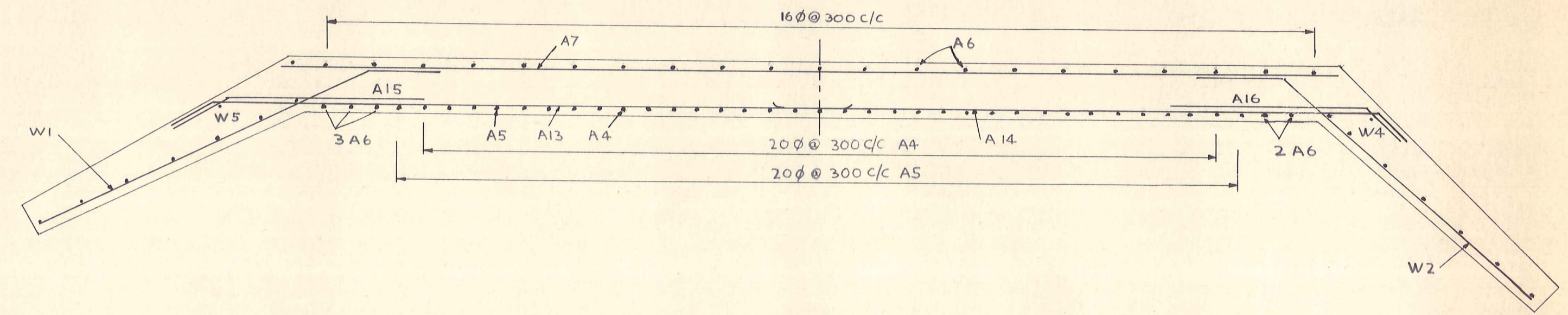
<b>DUFFILL WATTS &amp; KING</b> CONSULTING CIVIL & STRUCTURAL ENGINEERS <small>Dunedin P.O. Box 5269 Ph. 77245 Invercargill P.O. Box 576 Ph. 3049          Bluff P.O. Box 220 Phone 1425</small>	<b>VINCENT COUNTY COUNCIL</b>	<b>OMEA CREEK BRIDGE</b> <b>HAWLEY ROAD - EARNSCLEUGH</b>	AMENDMENTS		NAME	DATE	JOB NO.	Sheet No.					
			NO.	BY	DATE	Appvd.	Surveyed	B.B.N.	Sept 1975	7554	1		
			1	B.B.N.	Feb '76	Stream Profile & history reduced from 13m <sup>2</sup>		Calculations	"	Feb 1976			
								Traced	"	"			
								Checked	G.C.S.	"			
								Approved	[Signature]	"			
								File			LB. 84	F.B.	





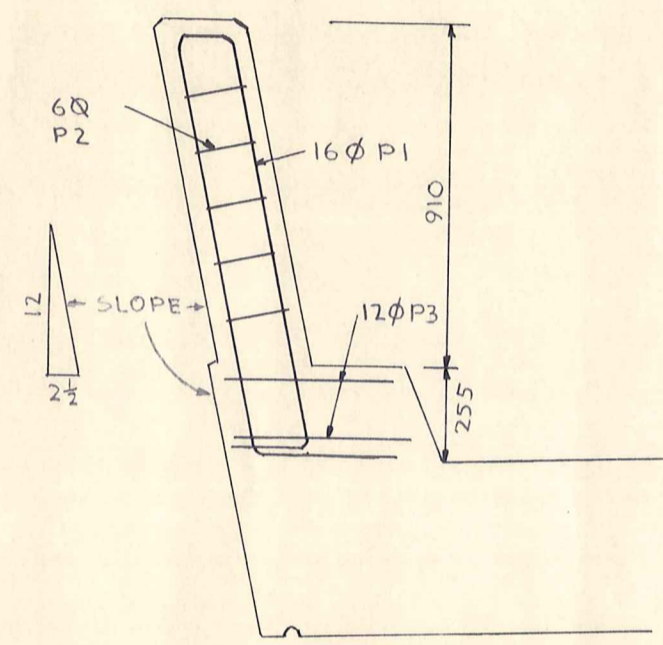
PLAN  
KERB & HANDRAILS

SCALE=1:40



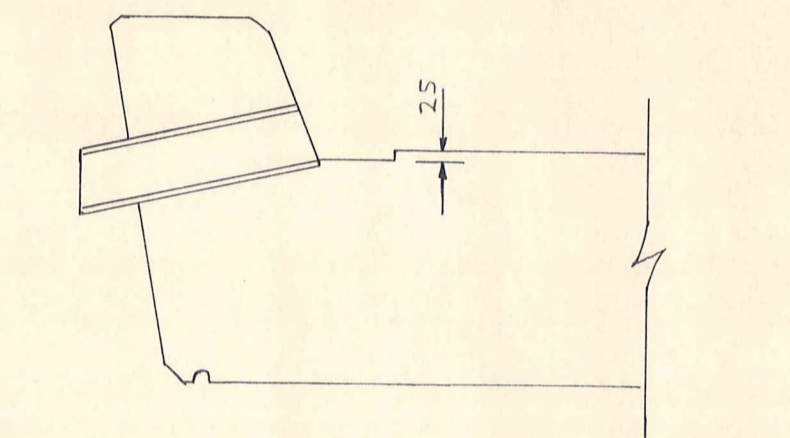
PIER CAP

SCALE=1:25



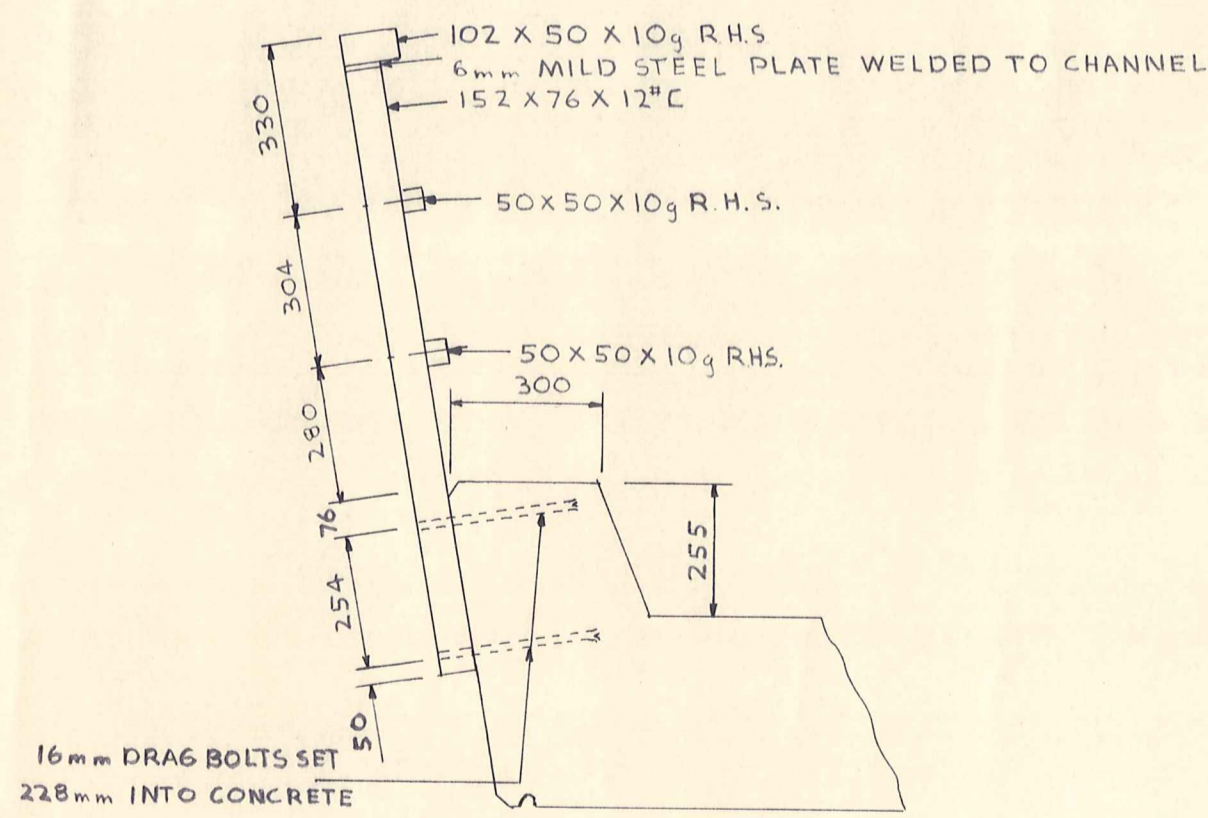
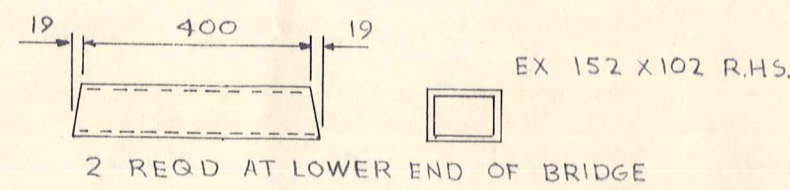
END POST

SCALE=1:25



DETAIL OF DRAINAGE

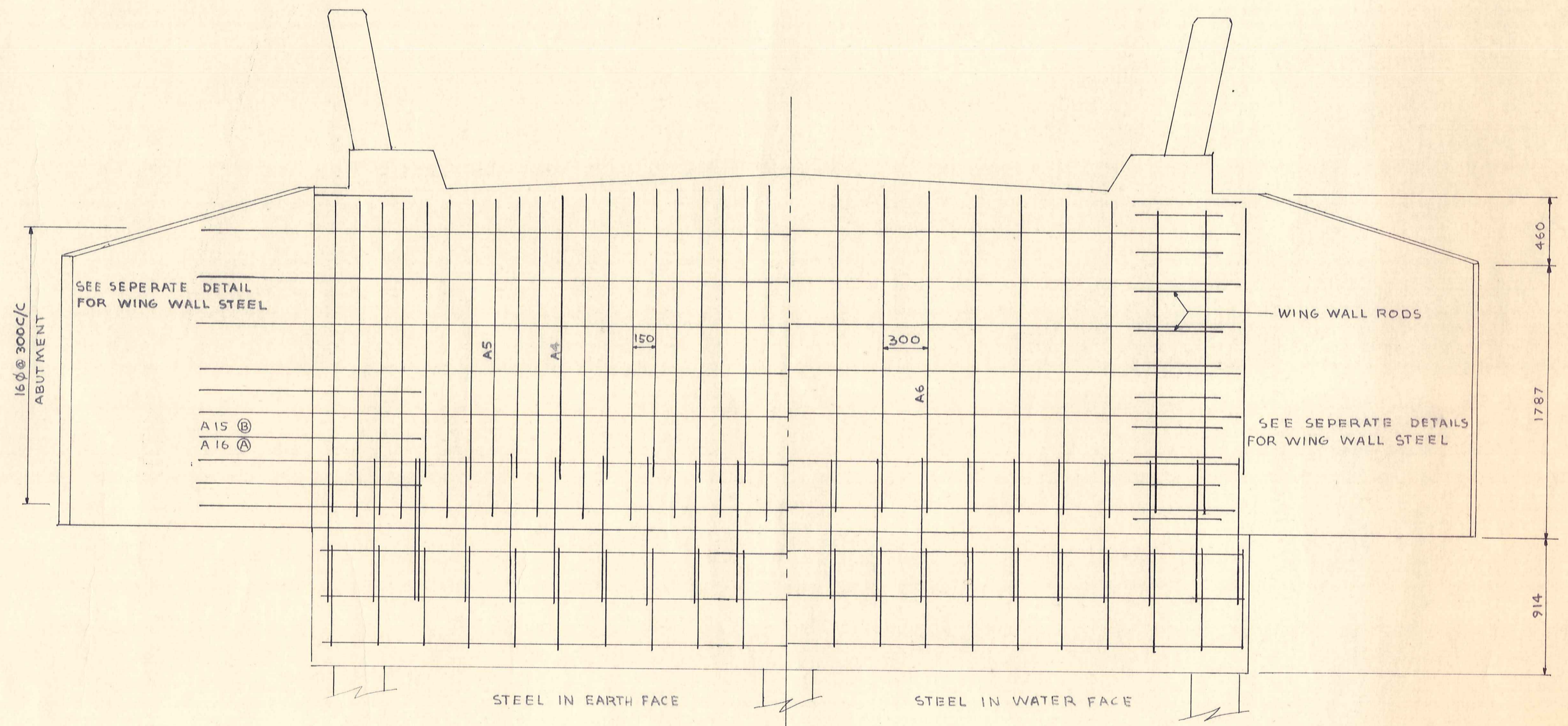
SCALE=1:15



HANDRAIL DETAIL

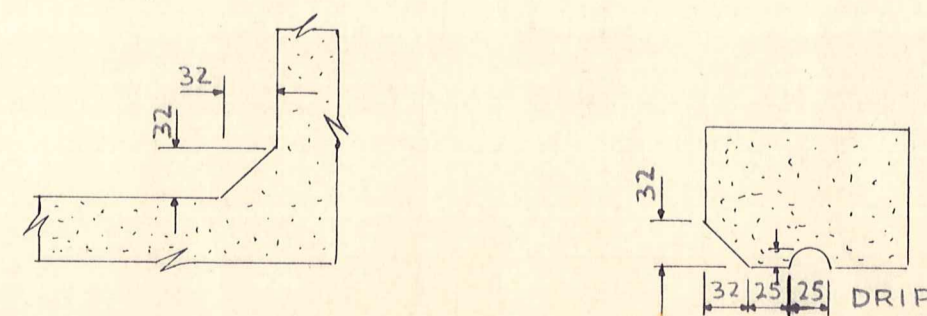
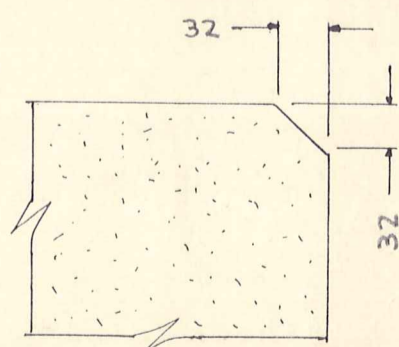
SCALE=1:15

NOTE: ALL BOLT HOLES TO BE ON  $\phi$  OF 152mm X 176mm CHANNEL DRILL RAILS ON SITE. ALL R.H.S. TO BE SEALED AT END WITH 3mm M.S. PLATE. ALL BOLTS, NUTS AND SPRING WASHERS TO BE GALVANISED. BOLTS TO BE 12mm DIAMETER



ABUTMENTS

SCALE=1:25



CHAMFER & FILLET DETAILS

N.T.S.

DUFFILL WATTS & KING  
CONSULTING CIVIL & STRUCTURAL ENGINEERS

VINCENT  
COUNTY COUNCIL

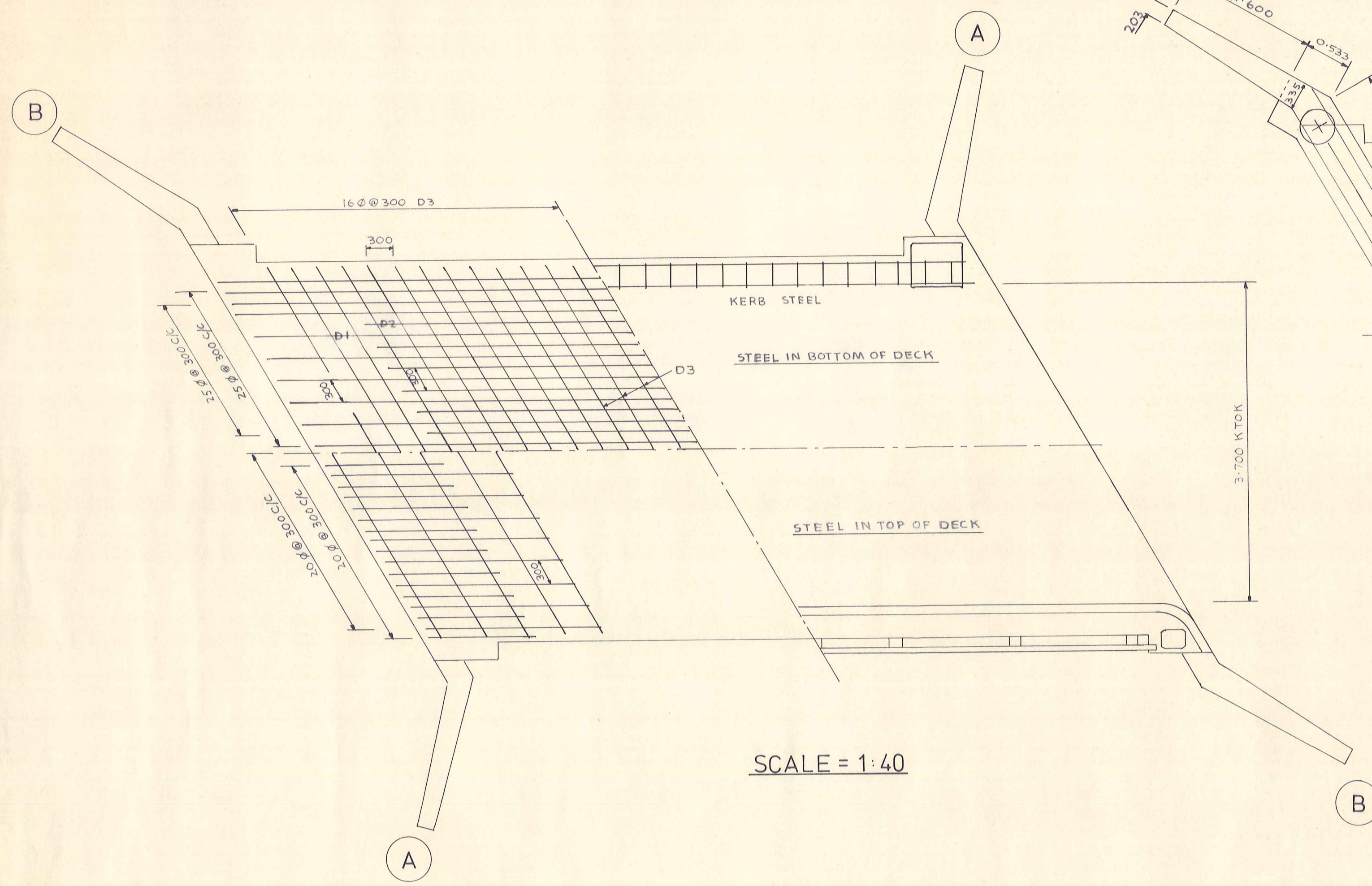
OMELO CREEK BRIDGE  
HAWLEY ROAD — EARNSCLEUGH

AMENDMENTS				NAME		DATE	JOB NO.	Sheet No
NO.	BY	DATE	Appvd.	Surveyed	Drawn	Checked	7554	2
				B. B. N.	G. C. S. & B. B. N.	Sept '75		
				B. B. N.	B. B. N.	March '76		
				G. C. S.				
				B. B. N.				
							File	L.B. F.B.

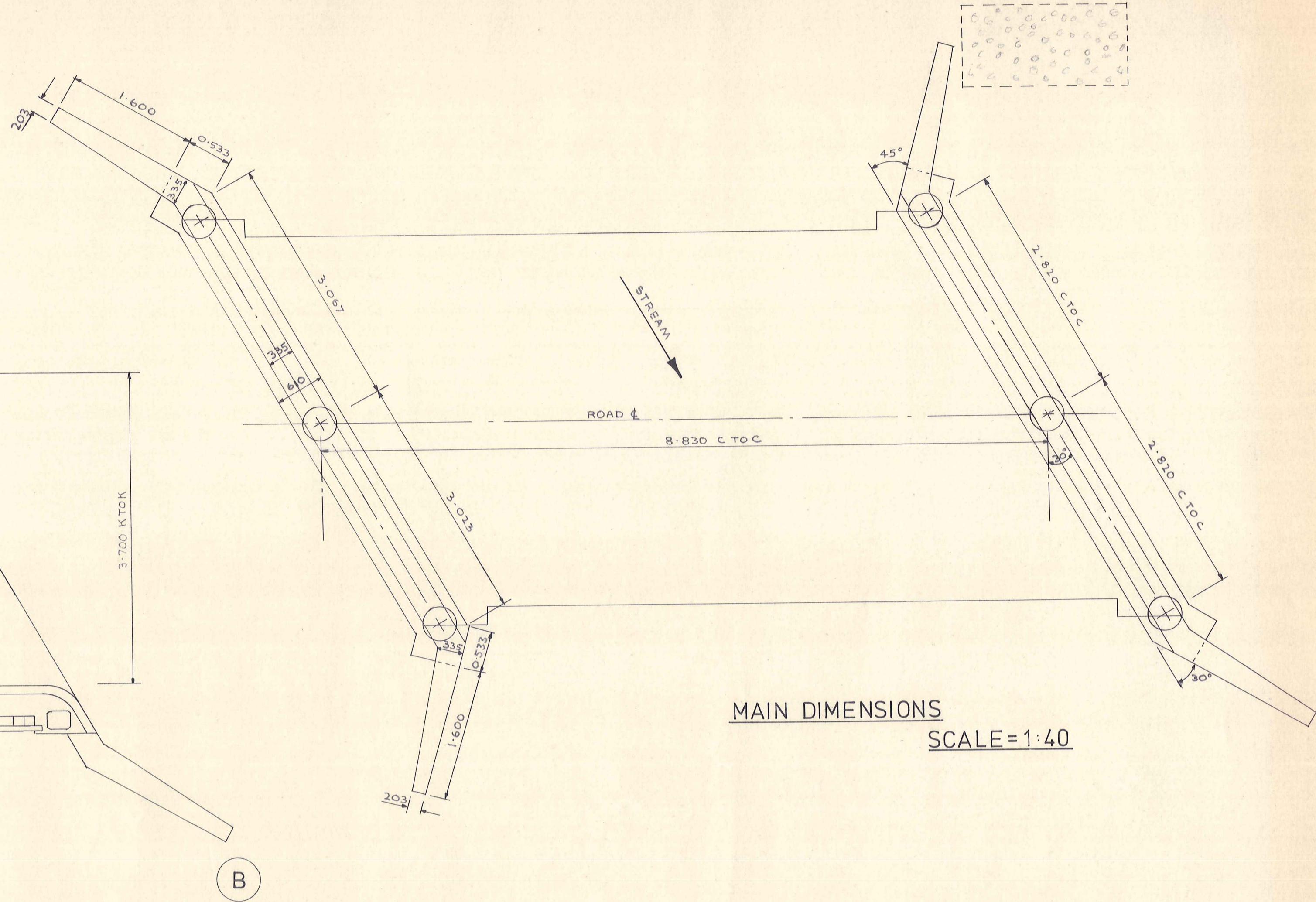
ORIGINAL SIZE  
mm INCHES



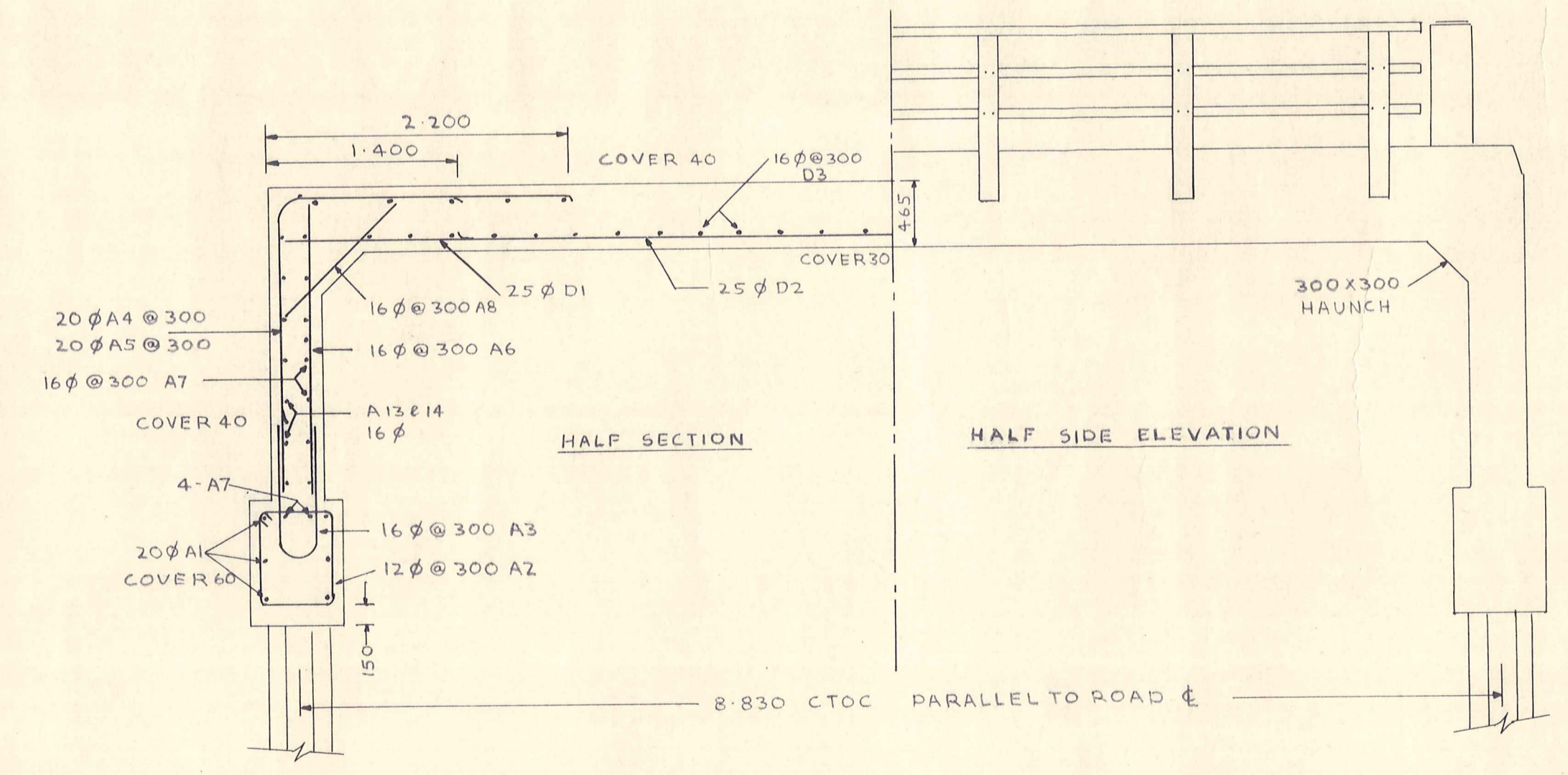
ORIGINAL SIZE  
mm INCHES



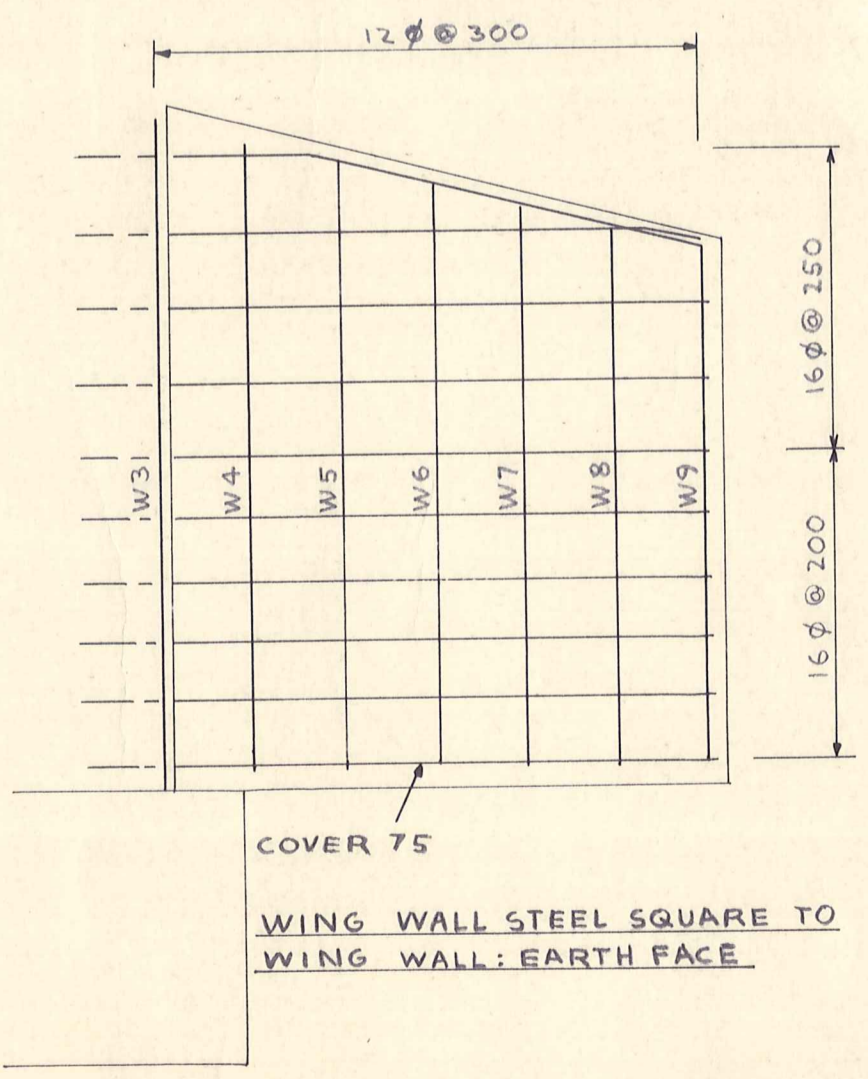
SCALE = 1:40



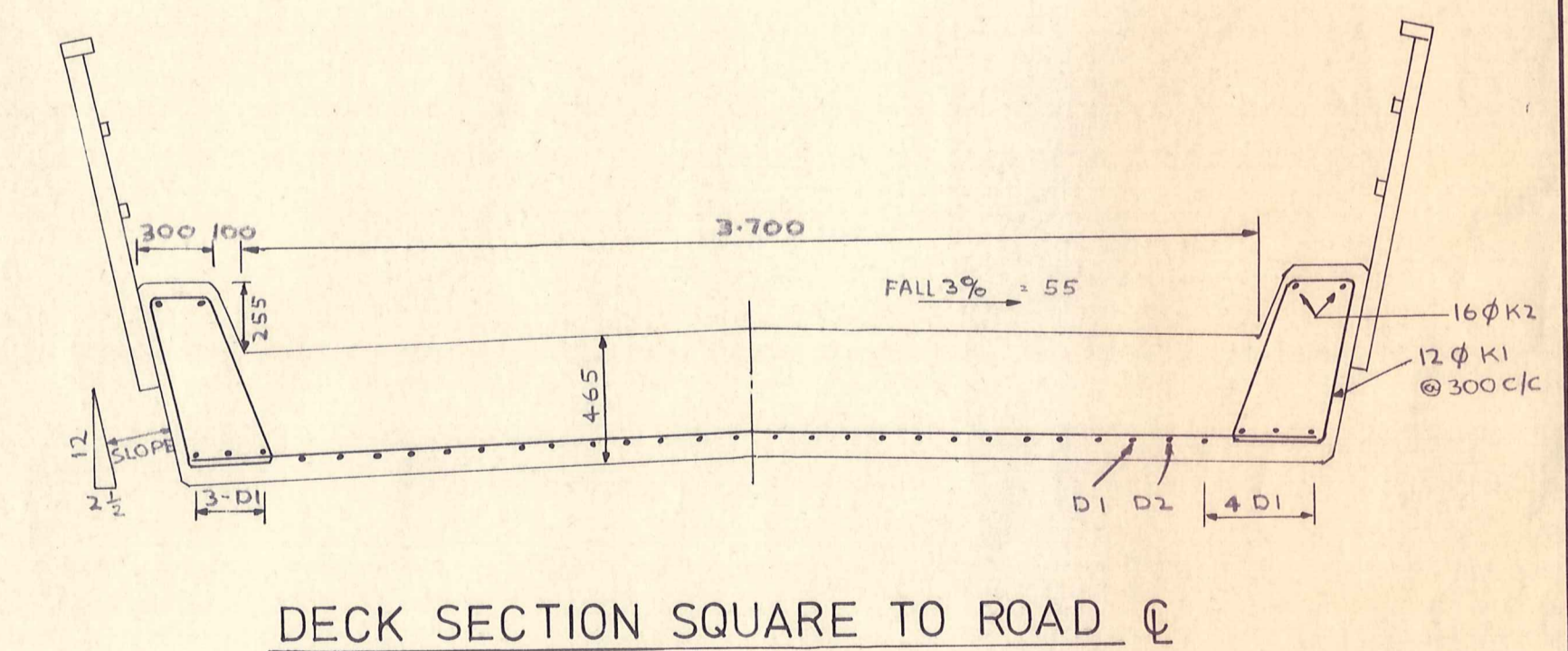
MAIN DIMENSIONS  
SCALE = 1:40



SCALE = 1:40



SCALE = 1:25



DECK SECTION SQUARE TO ROAD C  
SCALE = 1:25

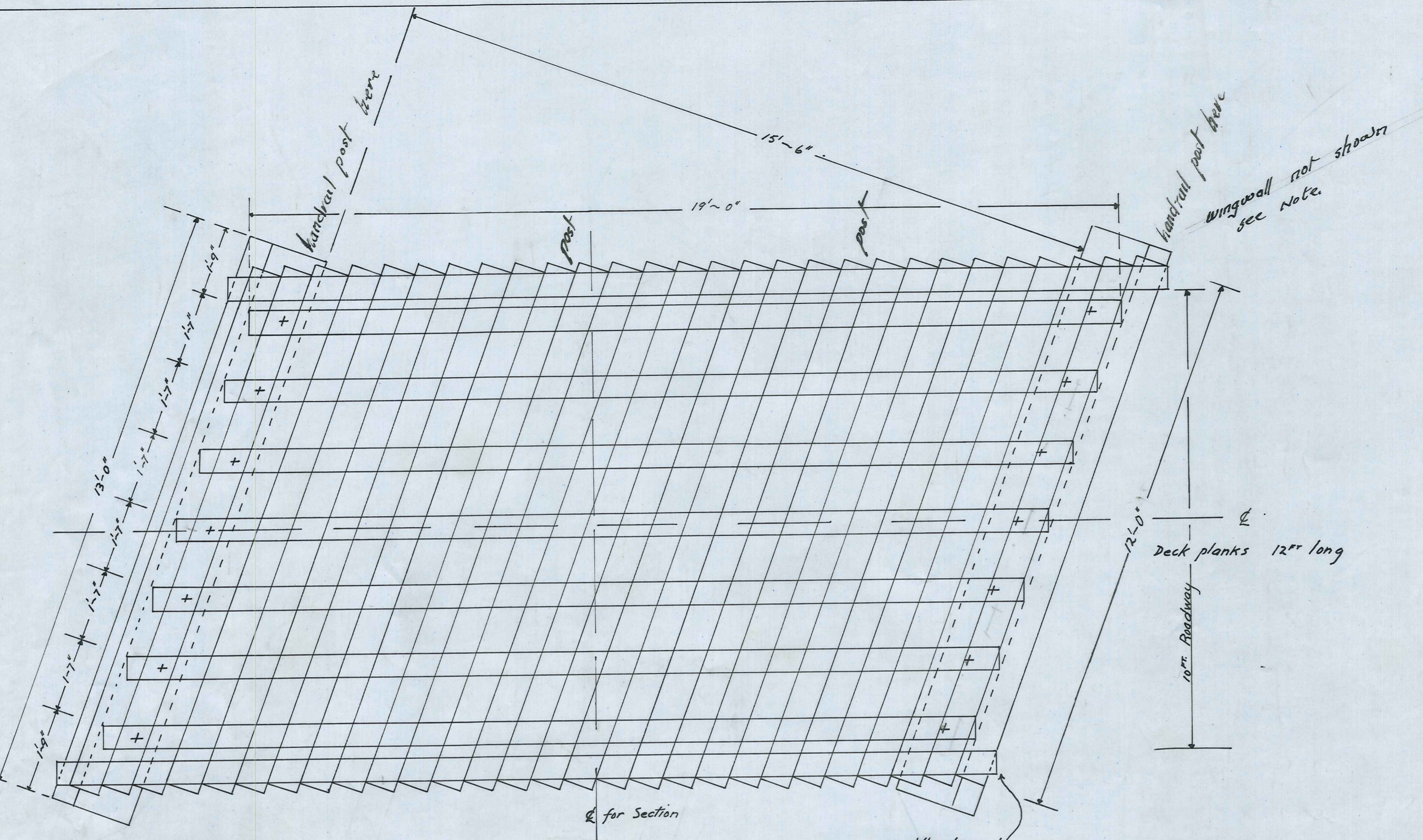
DUFFILL WATTS & KING  
CONSULTING CIVIL & STRUCTURAL ENGINEERS  
Dunedin P.O. Box 5209 Ph: 77 240 Invercargill P.O. Box 576 Ph: 3049  
Balclutha P.O. Box 220 Phone 1425

VINCENT  
COUNTY COUNCIL

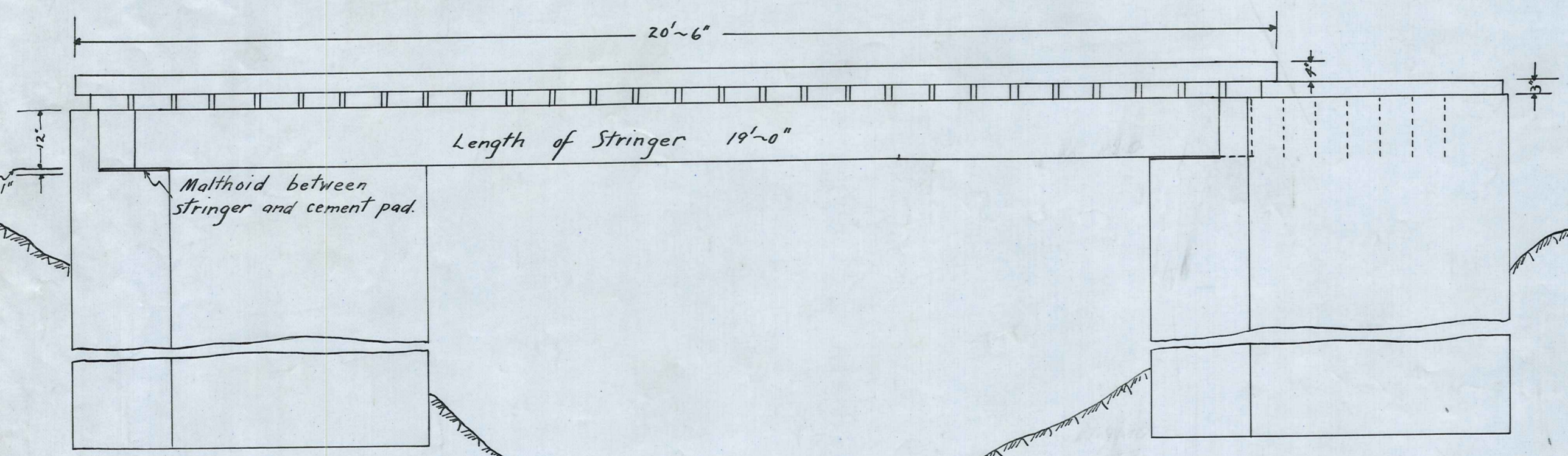
OMEA CREEK BRIDGE  
HAWLEY ROAD — EARNSCLEUGH

AMENDMENTS			NAME	DATE	JOB NO.	Sheet No.
NO.	BY	DATE	Appvd.	Surveyed	B.B.N.	SEPT '75
				Drawn	B.B.N. & G.C.S.	MARCH '76
				Calculations	B.B.N.	"
				Traced	G.C.S.	"
				Checked	B.B.N.	"
				Approved		"
					File	L.B.
						F.B.



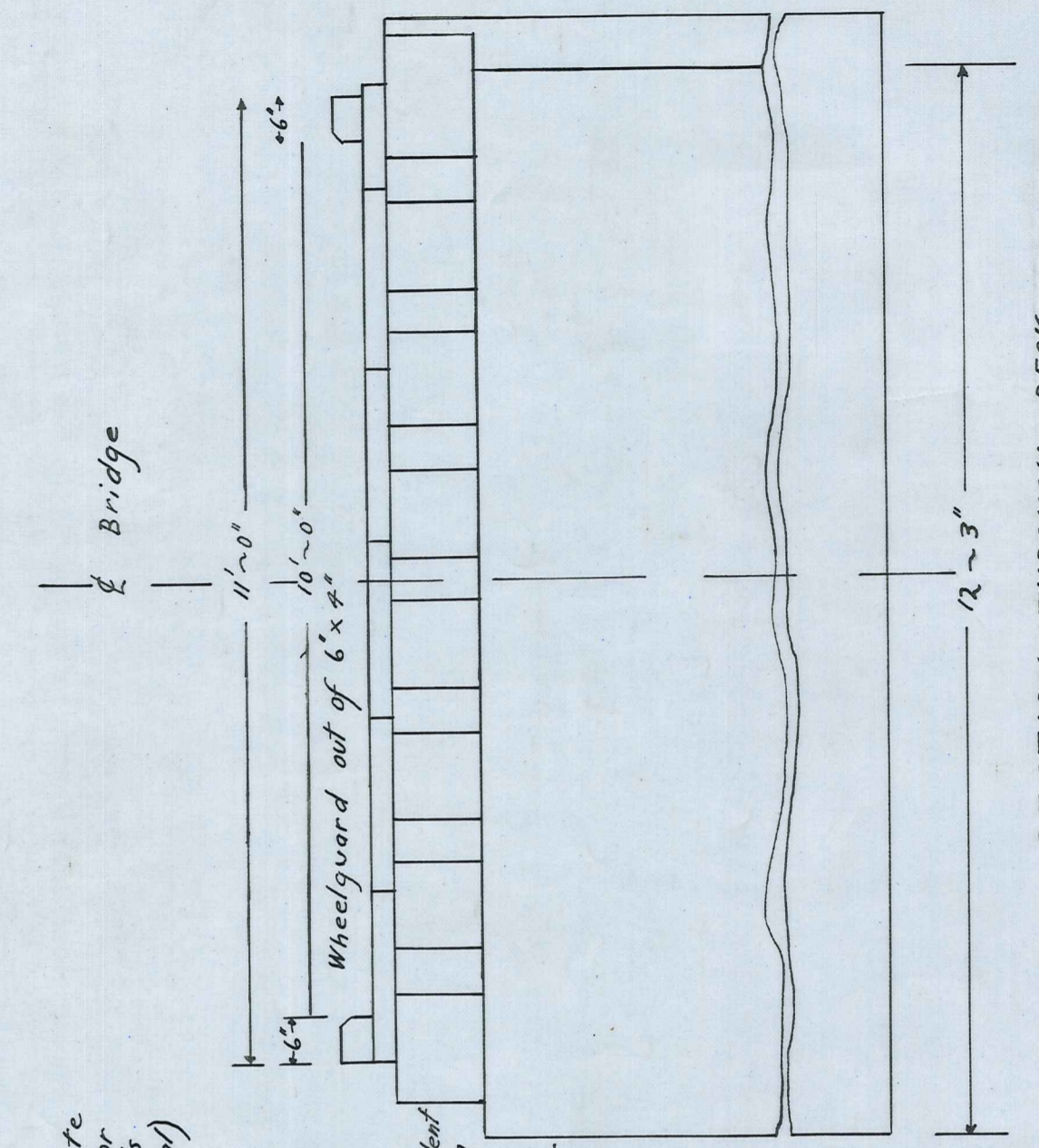


PLAN  
 Note :- Wingwalls not shown - see sheet 2 Note - Deck planks are 8" x 3"  
 for details of wingwall

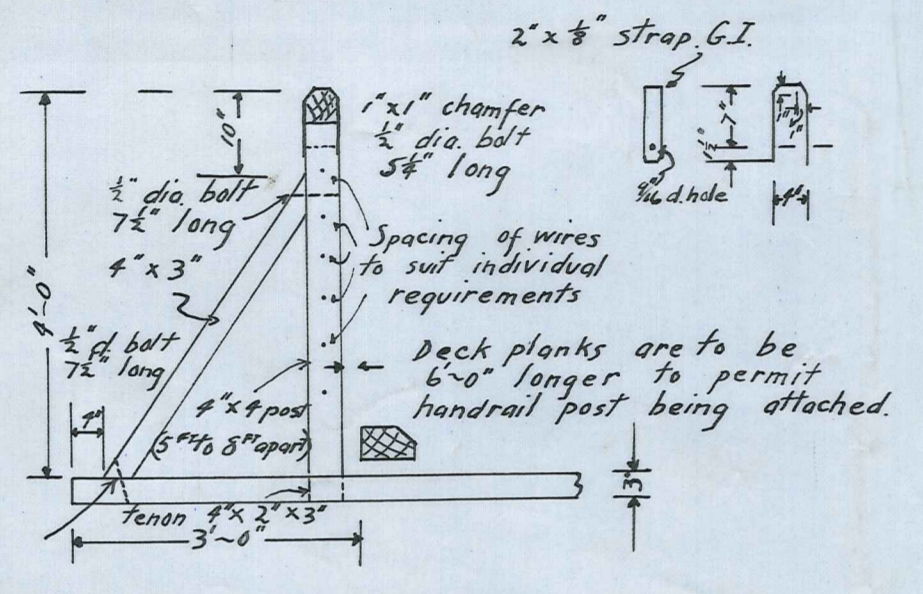


ELEVATION OF BRIDGE  
 TIMBER SPANS

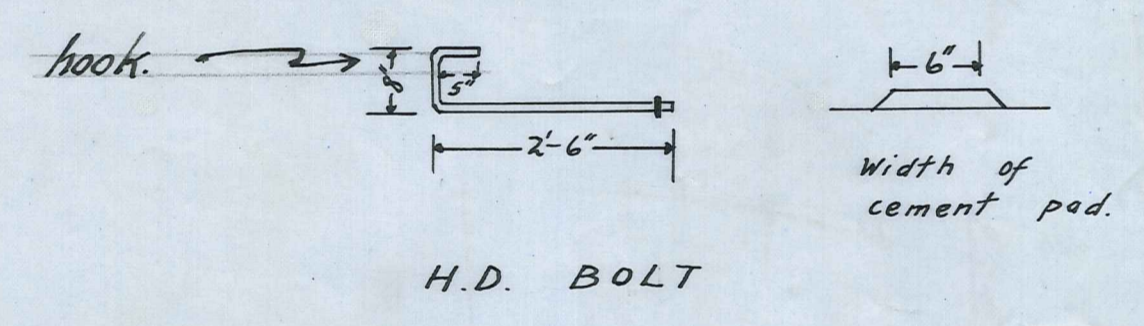
Note - see sheet 2 for abutment & pile detail



SECTION THROUGH DECK  
 OF 10' ROADWAY

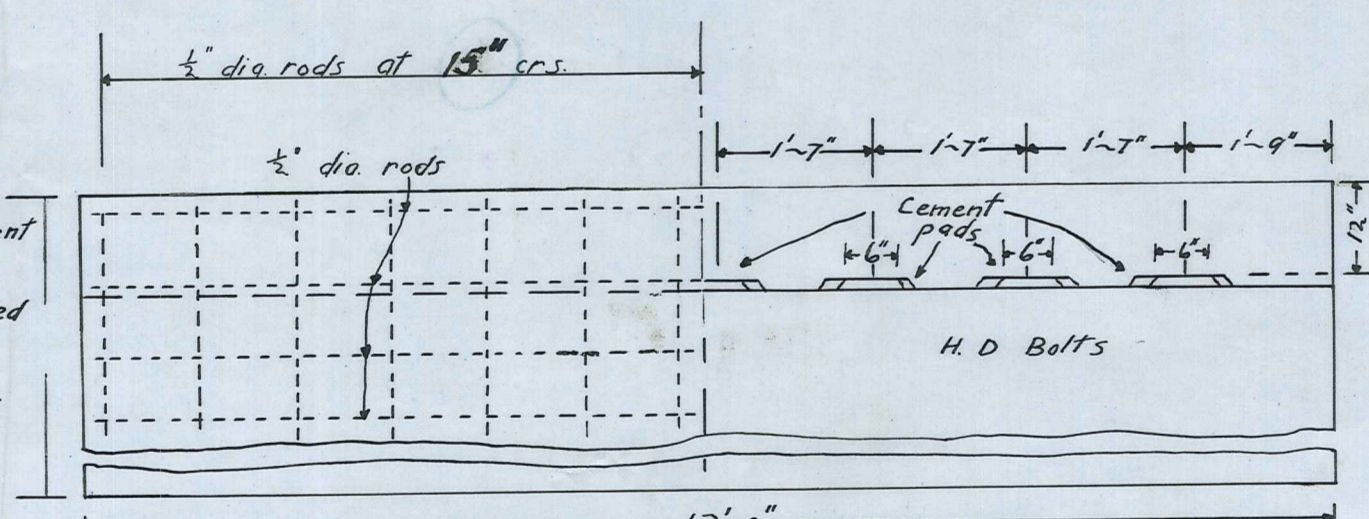


HANDRAIL DETAILS

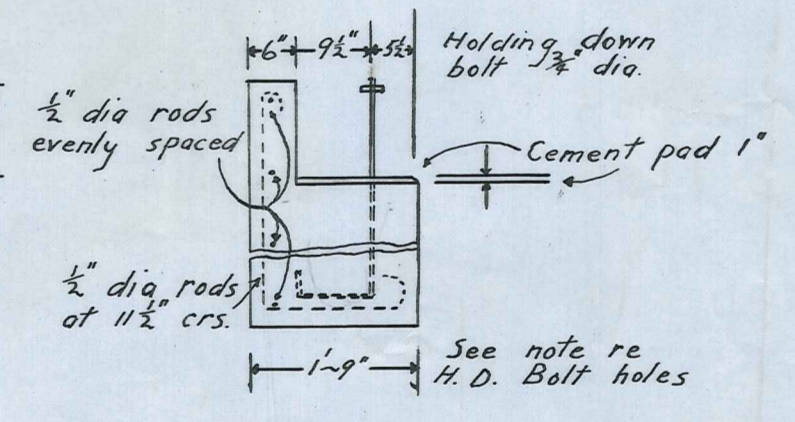


H.D. BOLT

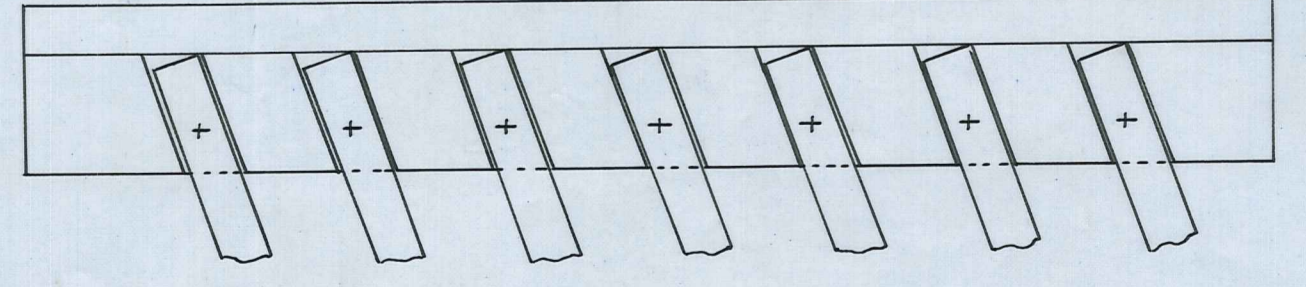
H.D. Bolt holes may be formed with 3" down pipe 12" long to allow adjustment in position of H.D. Bolt. Hole to be filled in with mortar after stringer is in position.



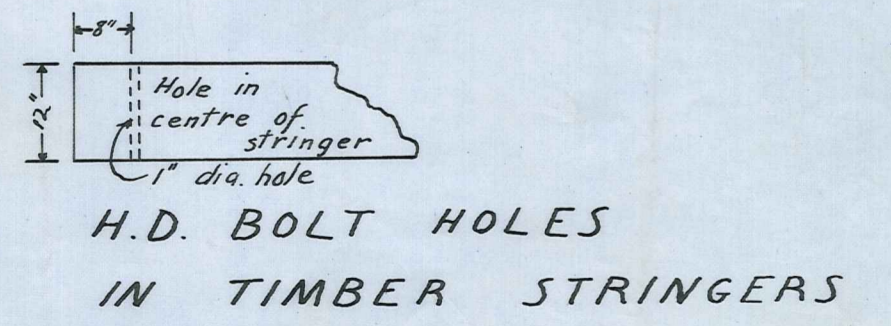
HALF REAR ELEVATION 13'-0"  
 SHOWING REINFORCING RODS



HALF FRONT ELEVATION  
 SHOWING CEMENT PADS



ABUTMENT DETAILS FOR  
 10' ROADWAY BRIDGE



H.D. BOLT HOLES  
 IN TIMBER STRINGERS

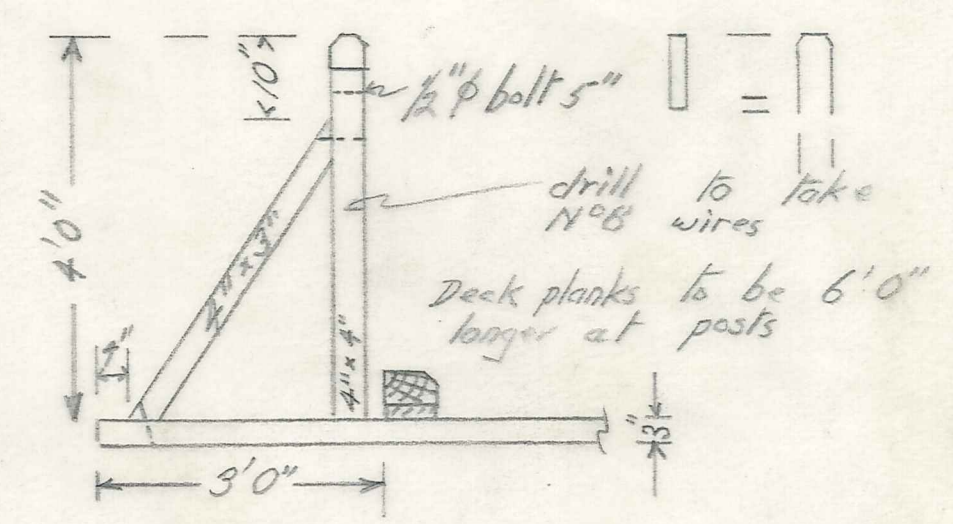
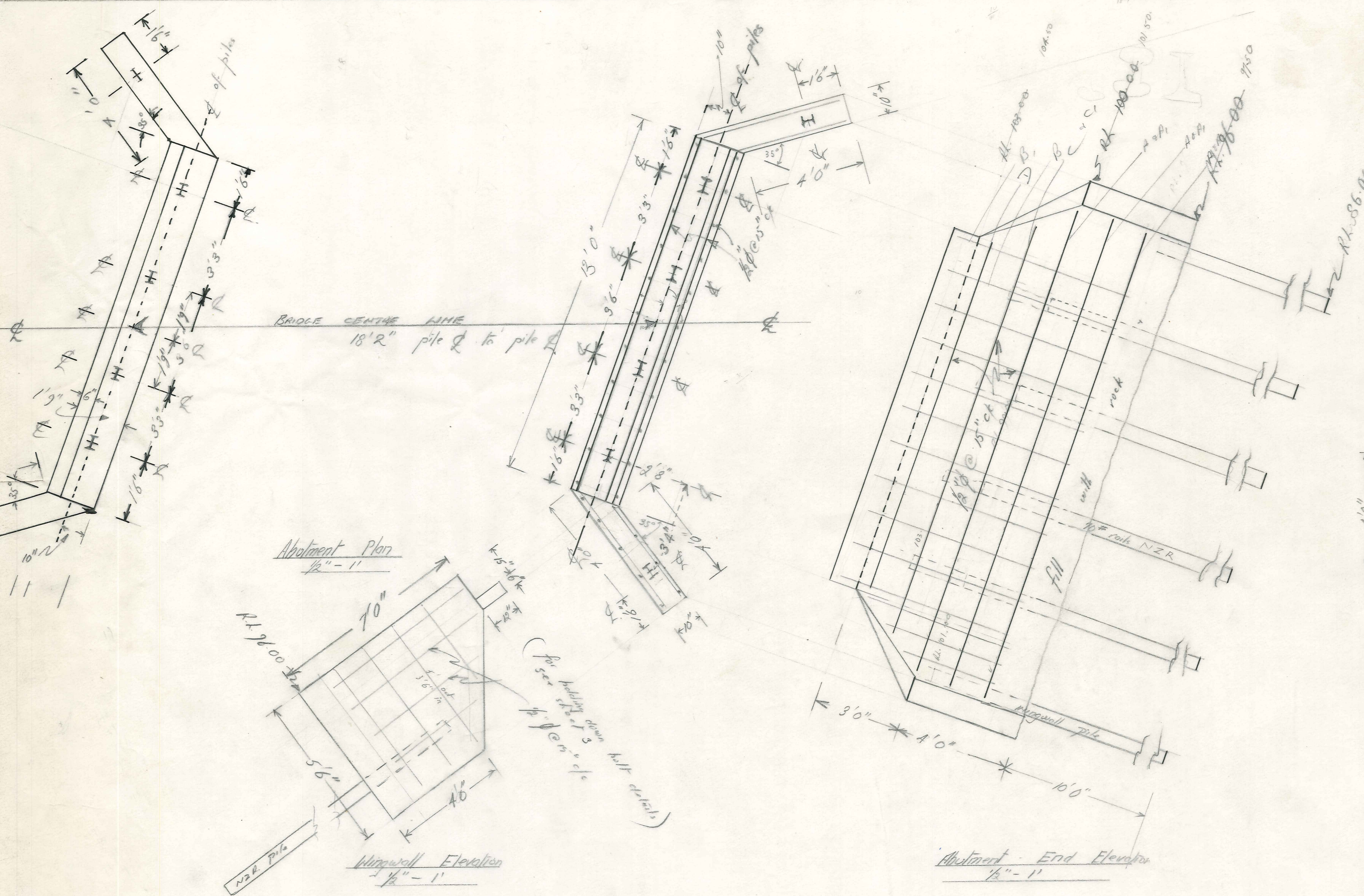
Scale - 1/2 in. to 1 ft.

Back  
 3/11/59  
 COUNTY ENGINEER

N<sup>o</sup>. 210/6  
 sheet 2 of 3



10-65  
10-65  
R1 30



VINCENT COUNTY COUNCIL

OMELO CREEK BRIDGE

B. Book  
COUNTY ENGINEER  
25/1/59

	NAME	DATE
SURVEYED		
DRAWN		
DESIGNED		
CALCULATED		
CHECKED		

N° 210/6  
Sheet 2 of 3 sheets

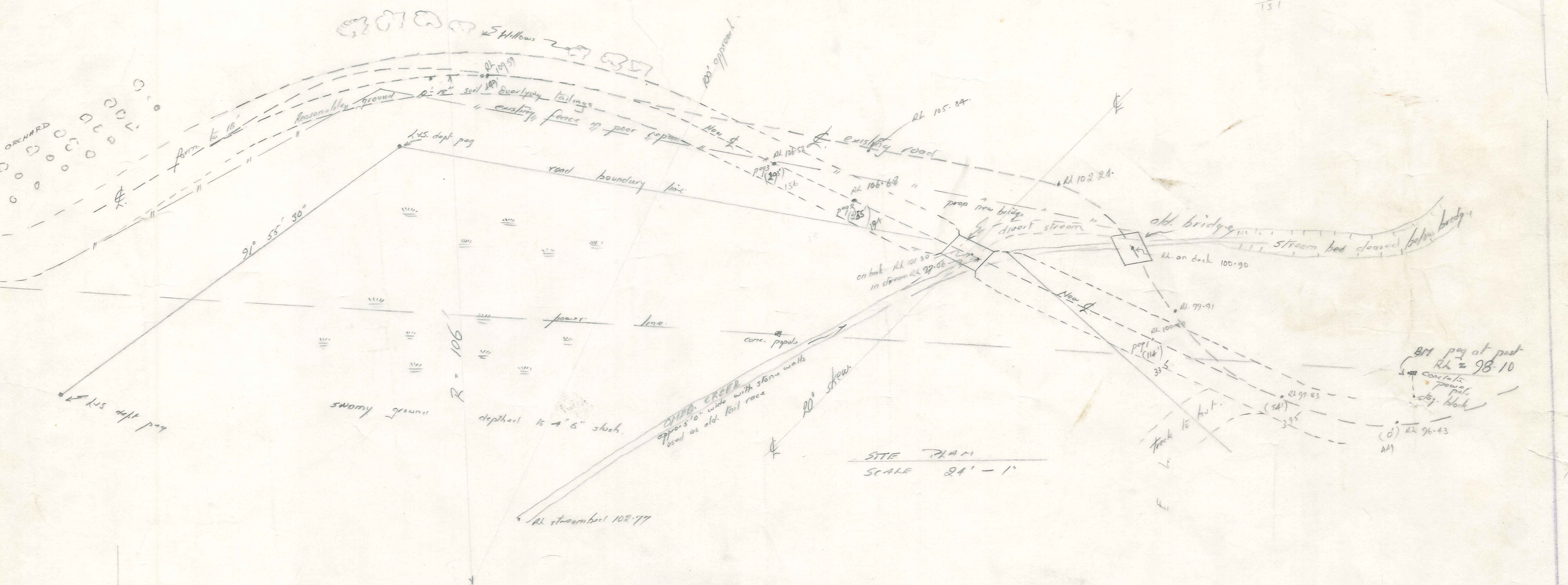


58  
265  
303

307  
127  
859

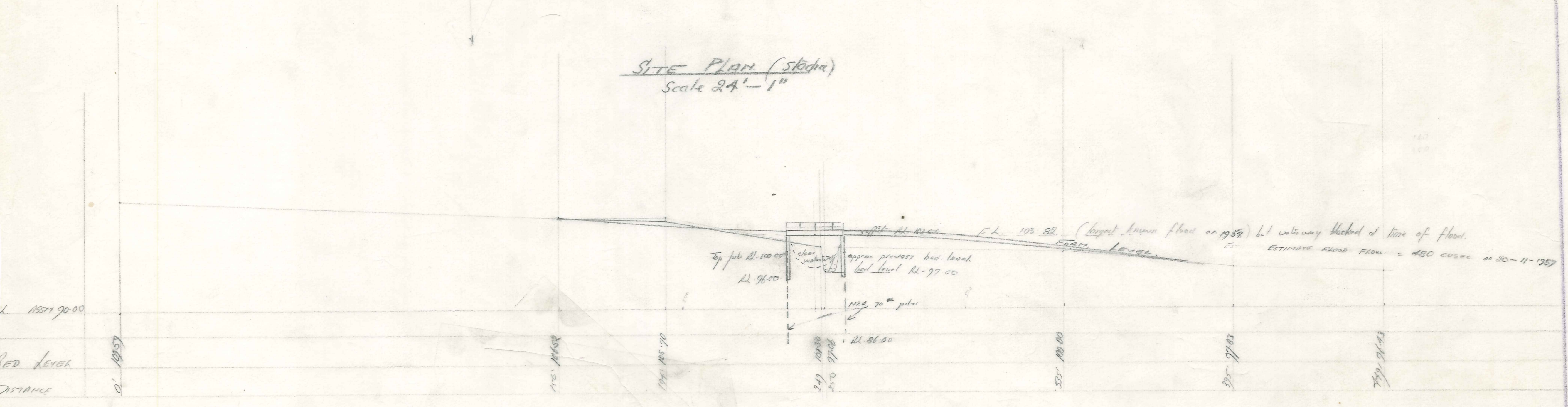
265  
114  
151

194  
55  
149



SITE PLAN  
SCALE 24'-1"

SITE PLAN (sketch)  
Scale 24'-1"



PROFILE  
SCALE Horiz 20'-1"  
Vert 10'-1"

V. C. C.

OMEIO CREEK BRIDGE

B. Seal  
19-1-59

N° 210/6

Sheet 1 of 3 sheets



23'  
20'  
18-11'  
16-10'

60  
100  
150  
200  
250  
300  
350  
400  
450  
500  
550  
600  
650  
700  
750  
800  
850  
900  
950  
1000

Stream excavated from  
existing bridge downstream  
for 40 chains

Existing Bridge

Concrete Post

Willow Trees

Swamp

Omeca Creek

test pits

12 125 12  
12  
25  
41

24ft to lin

Orchard

test pits

Flood Level W. 16-20

Omeca Creek

7' above datum

Distance

eg Level

ormation Level

ck & Level

ad & Level

Horiz: 24ft to lin  
Vert: 10ft to lin

210/6

