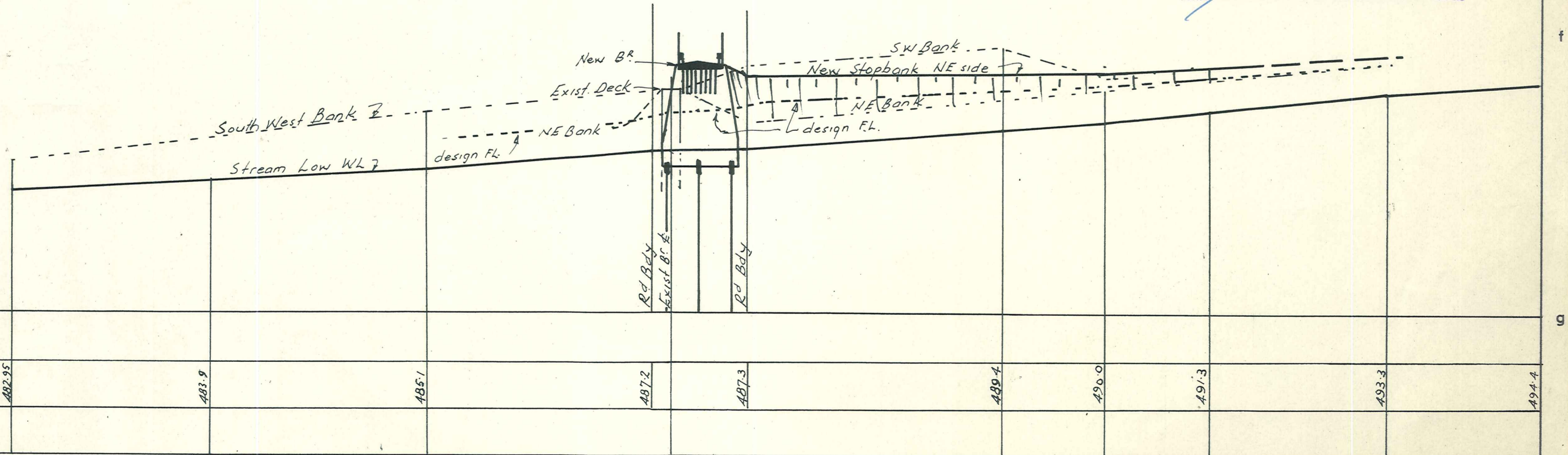


Elevation  
1/8 in to 1 ft

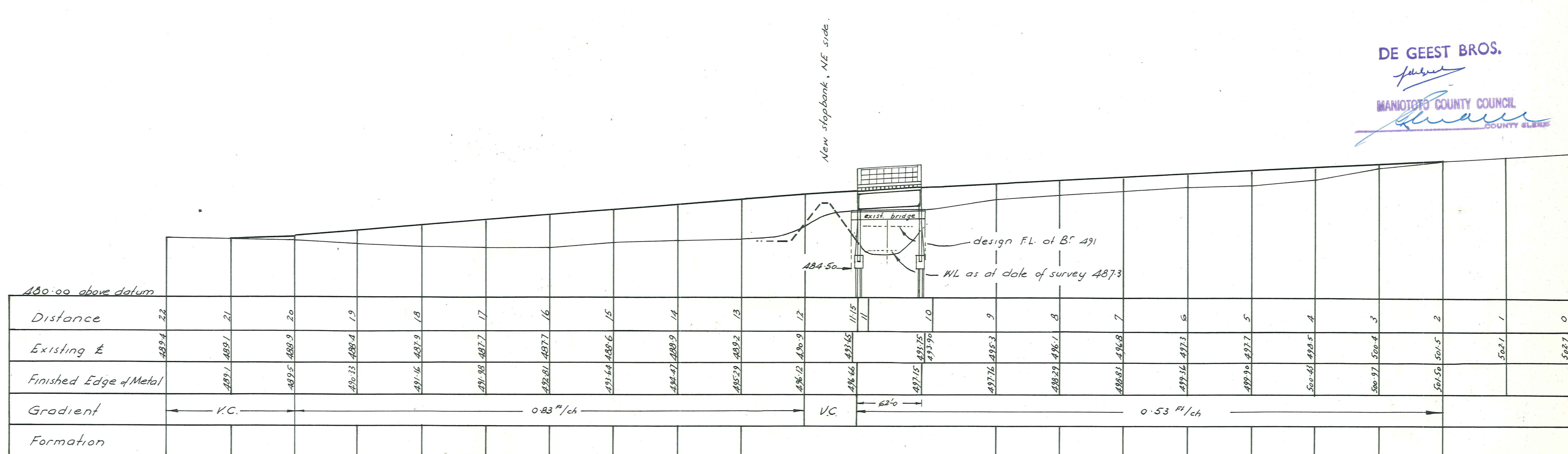
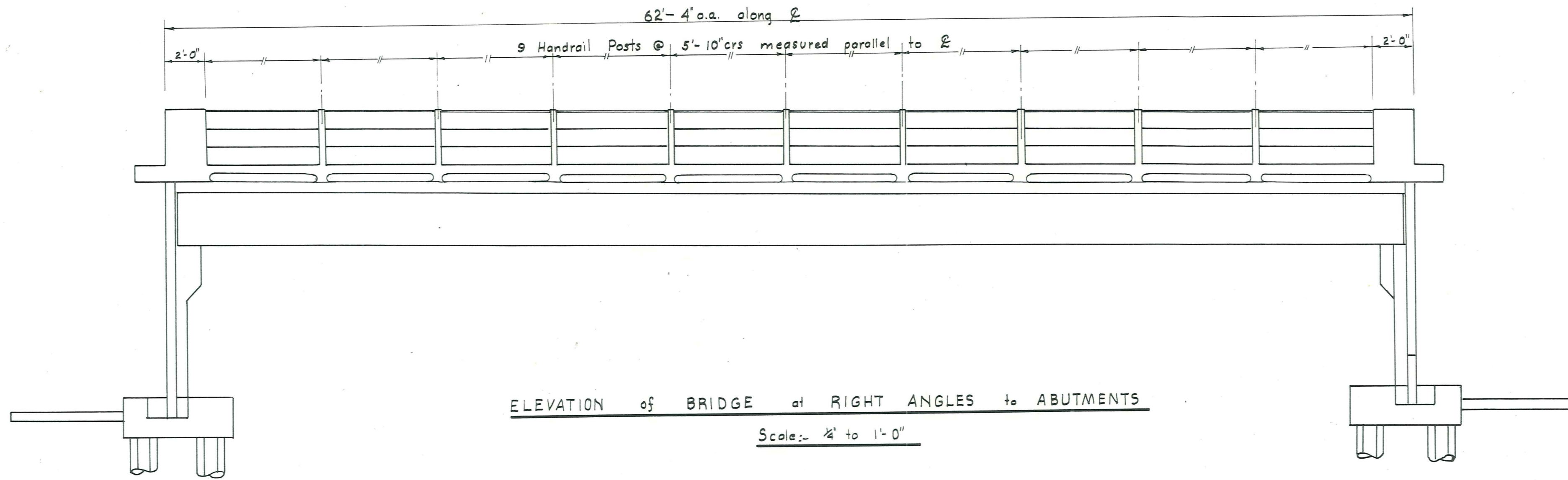


Longitudinal Section on Exist. Stream Bed. 1" ch to 1" x 10" to 1 1/4"

470.00 above datum										
Water Level (normal)	488.35	488.9	489.7	489.2	489.3	489.4	489.9	490.3	490.3	490.4

DE GEEST BROS.  
*J. de Geest*  
MANIOTOTO COUNTY COUNCIL  
*Shawn*  
COUNTY CLERK

DUFFILL WATTS & KING CONSULTING CIVIL & STRUCTURAL ENGINEERS DUNEDIN & INVERCARGILL, N.Z.	MANIOTOTO COUNTY	PIGBURN BRIDGE	DRAWING SITE PLAN	REFERENCE DRAWINGS Dept. No. Description.	REVISIONS No. By. Date. Description.	SCALES as shown	NAME A. B. Cochran	DATE June 65	SHEET No 4542 <sub>1</sub>
				CONTRACT No 508.	Approved.	ISSUE a			



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MANIOTOTO COUNTY COUNCIL  
COUNTY CLERK

DUFFILL WATTS & KING  
CONSULTING CIVIL & STRUCTURAL  
ENGINEERS  
DUNEDIN & INVERCARGILL, N.Z.

MANIOTOTO  
COUNTY

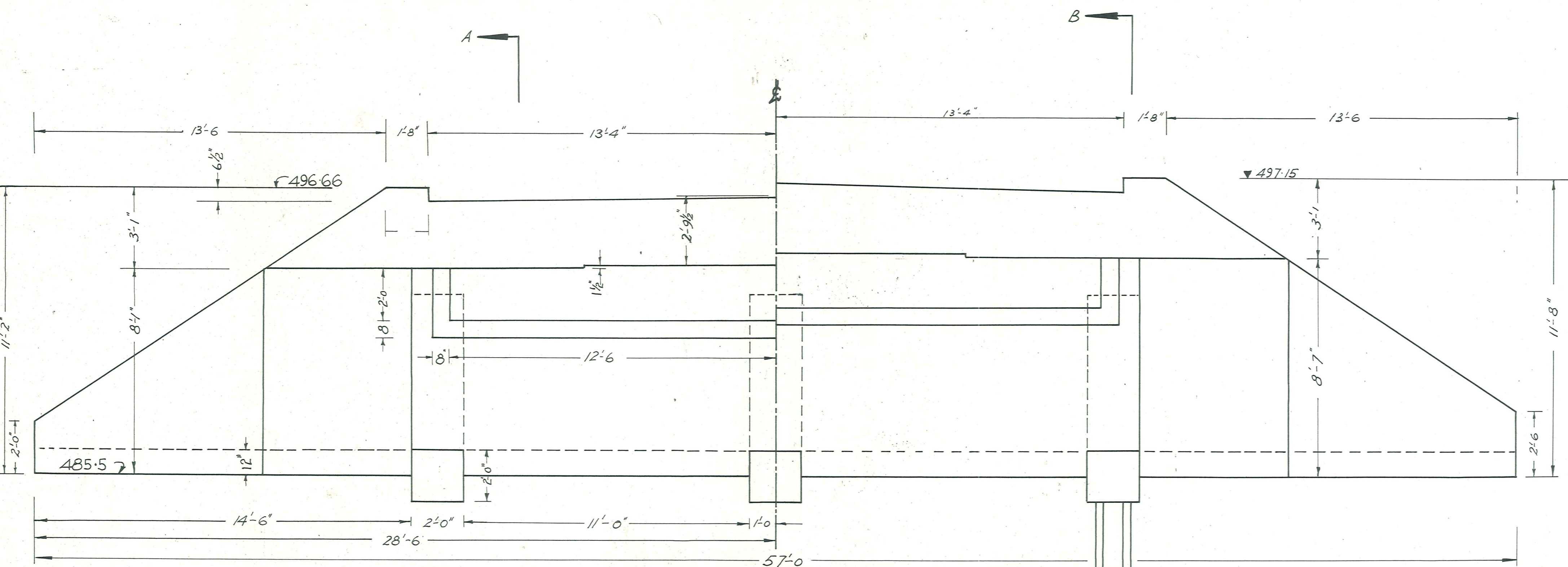
PIGBURN BRIDGE

DRAWING  
APPROACH

REFERENCE DRAWINGS		REVISIONS					
Dep't.	No.	Description	No.	By.	Date	Description	Appr'd

SCALES  
1 ch = 1 in  
10 ft = 1 in  
CONTRACT No  
508.

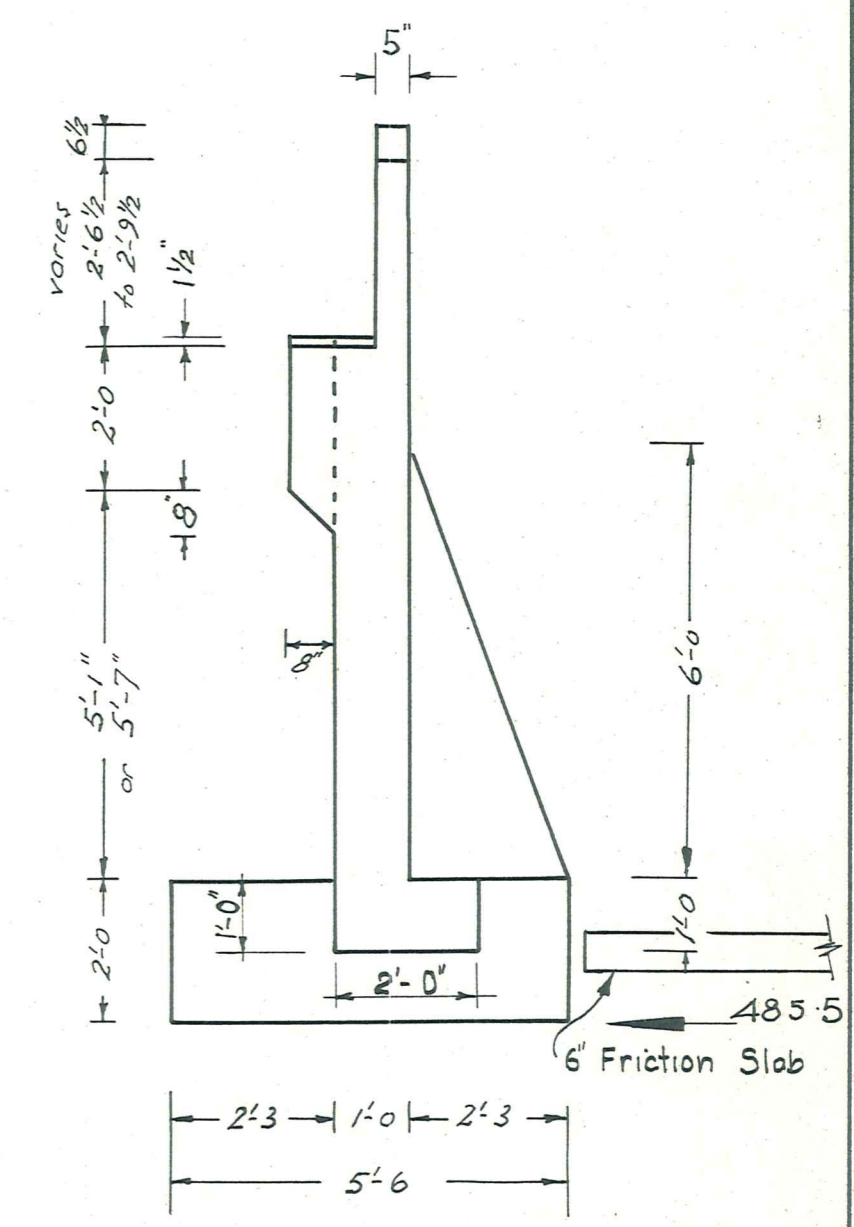
NAME	DATE	SHEET No
Surveyed: A B Coshran		4542-2
Drawn: IR Palmer		
Calculations:		
Traced: [Signature]	June '65	
Checked: [Signature]	Aug '65	
Approved: [Signature]		ISSUE A



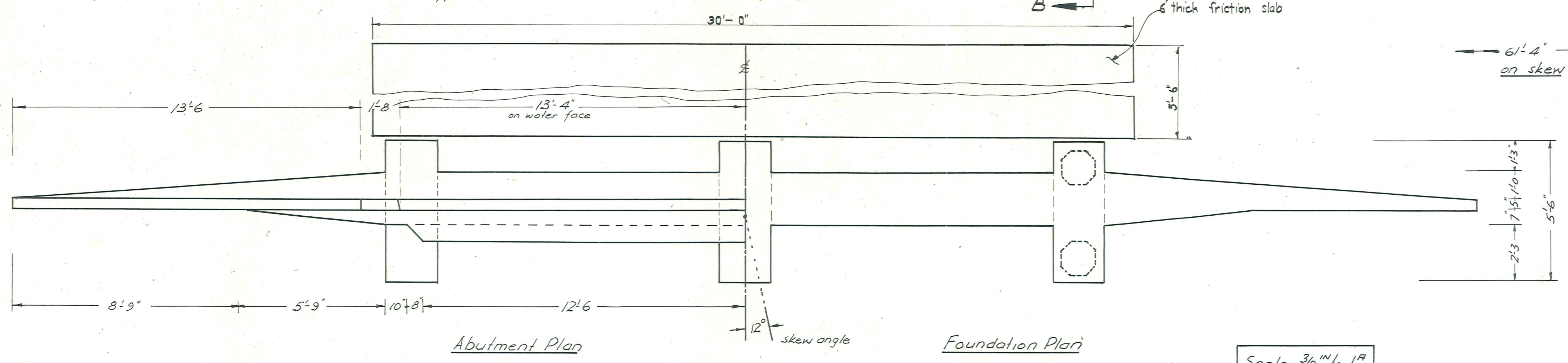
Waipata End

Abutment Elevations - Water Face

Pateaara End



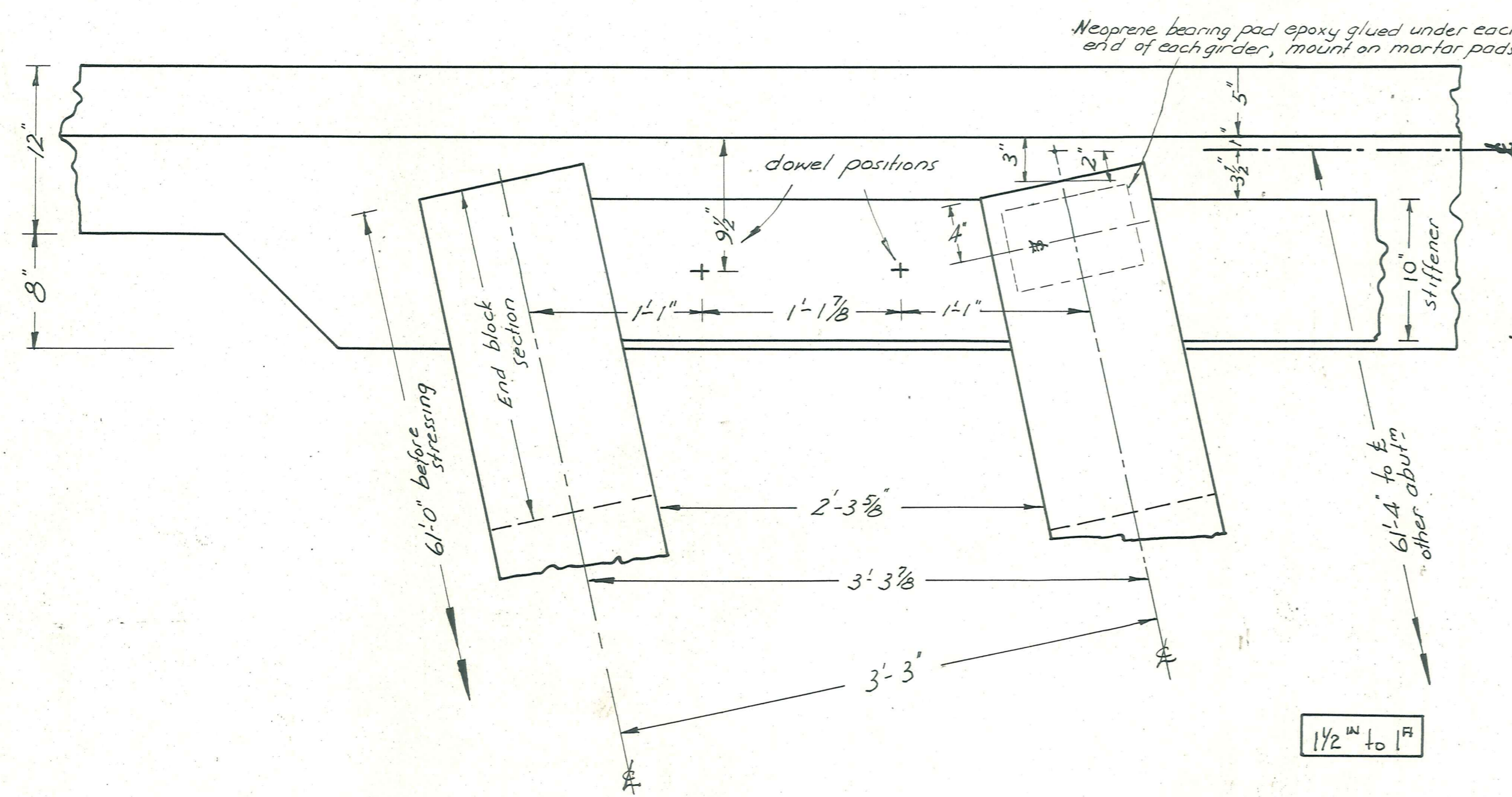
Section AA



Abutment Plan

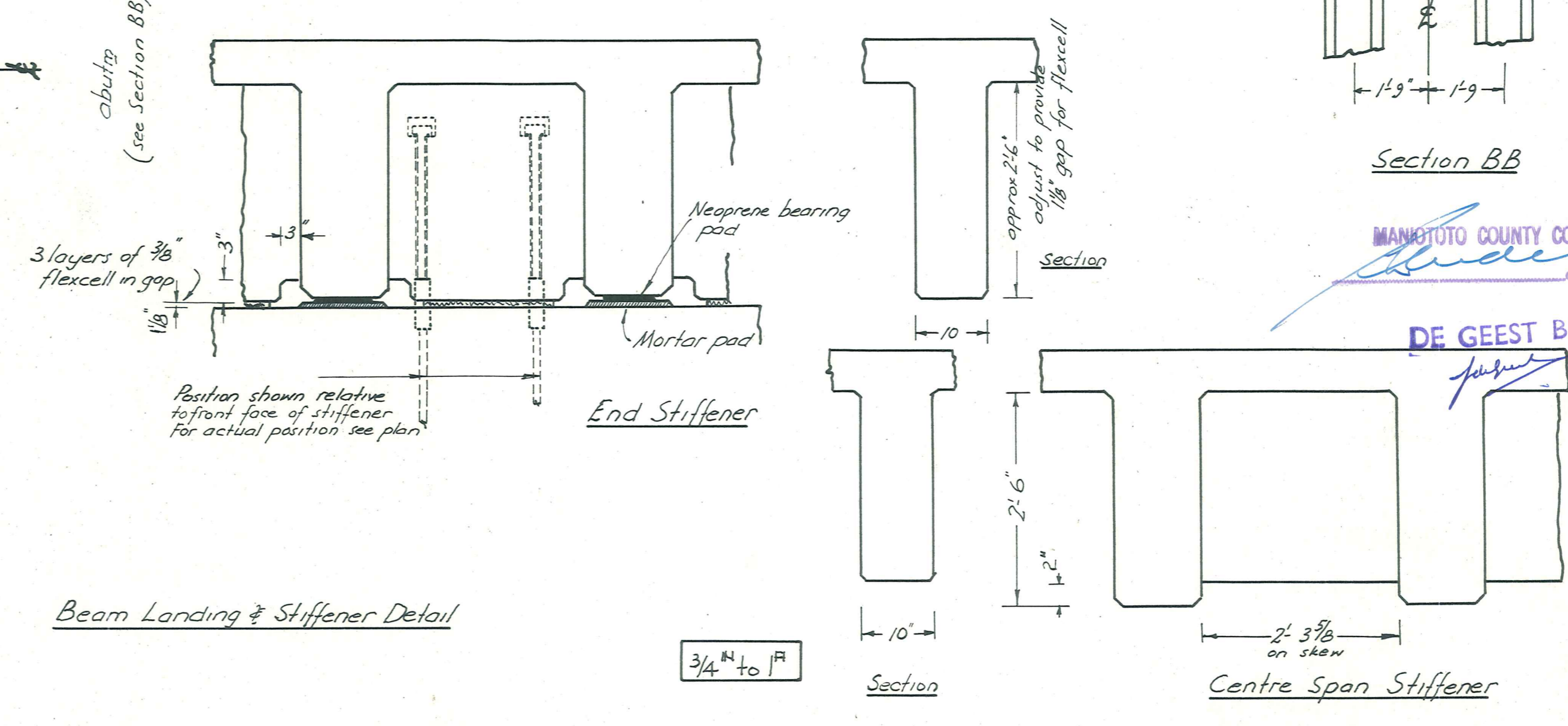
Foundation Plan

Scale 3/8" to 1'



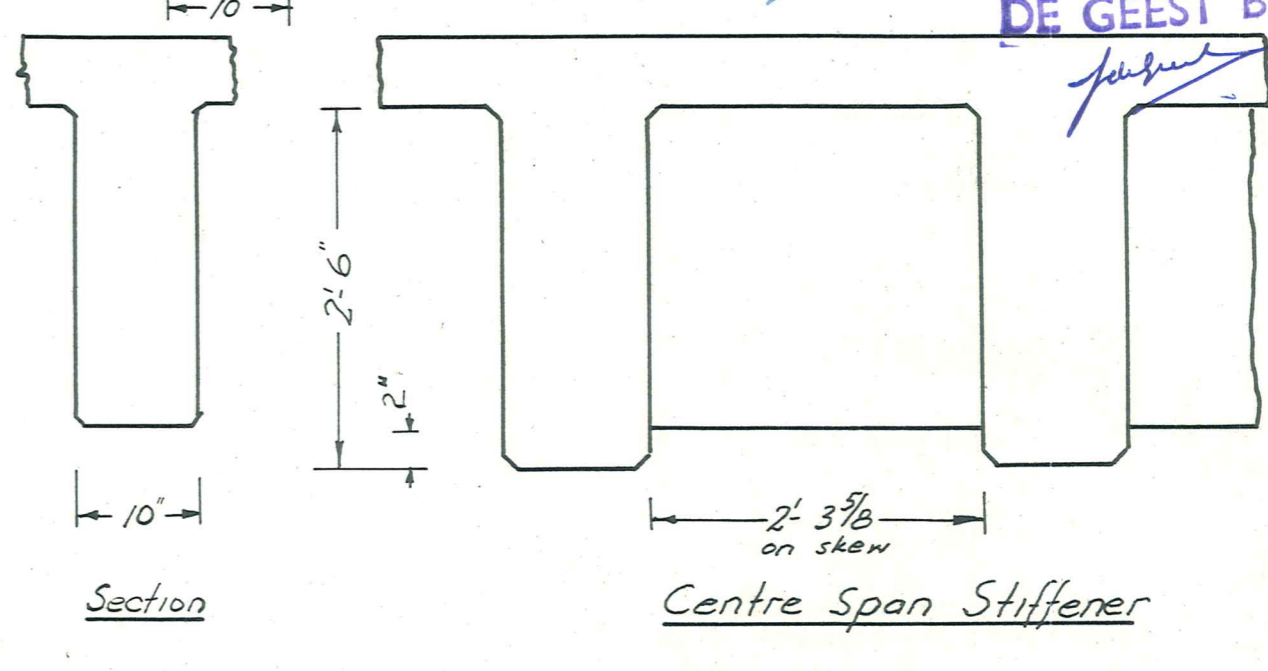
Beam Landing & Stiffener Detail

1/2" to 1'



End Stiffener

3/4" to 1'



Centre Span Stiffener

Section BB

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ENGINEERS  
DUNEDIN & INVERCARGILL. N.Z.

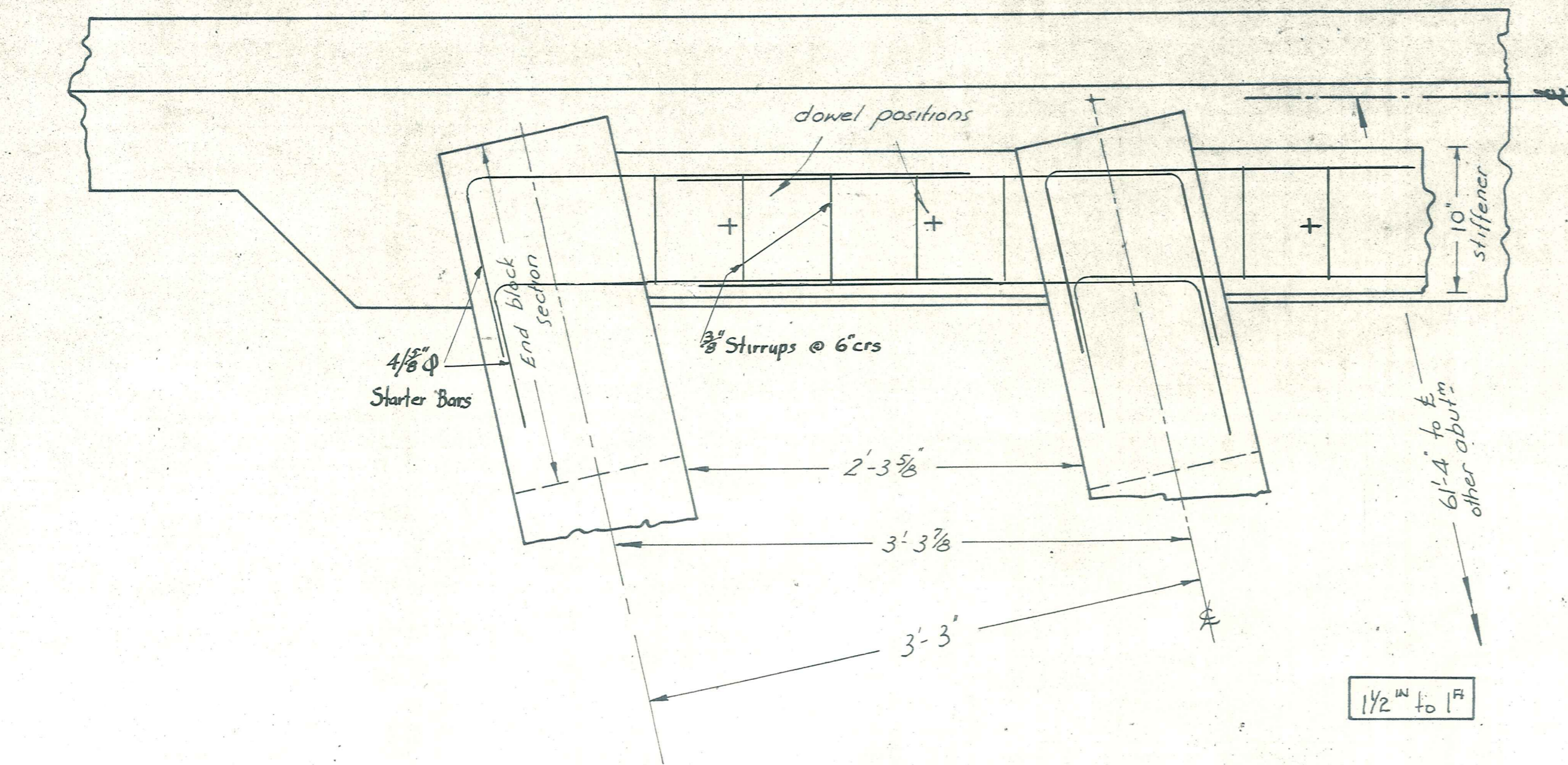
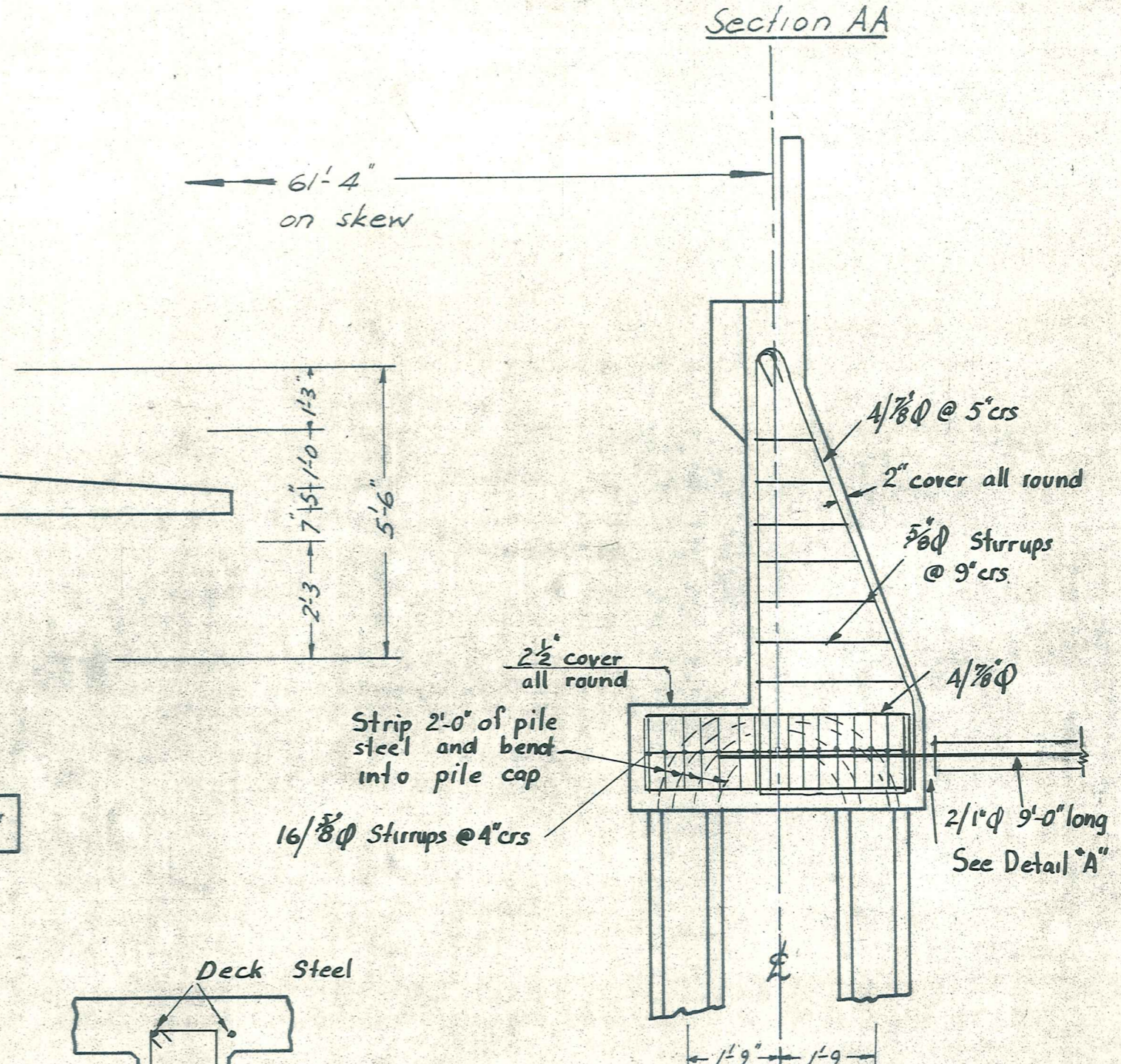
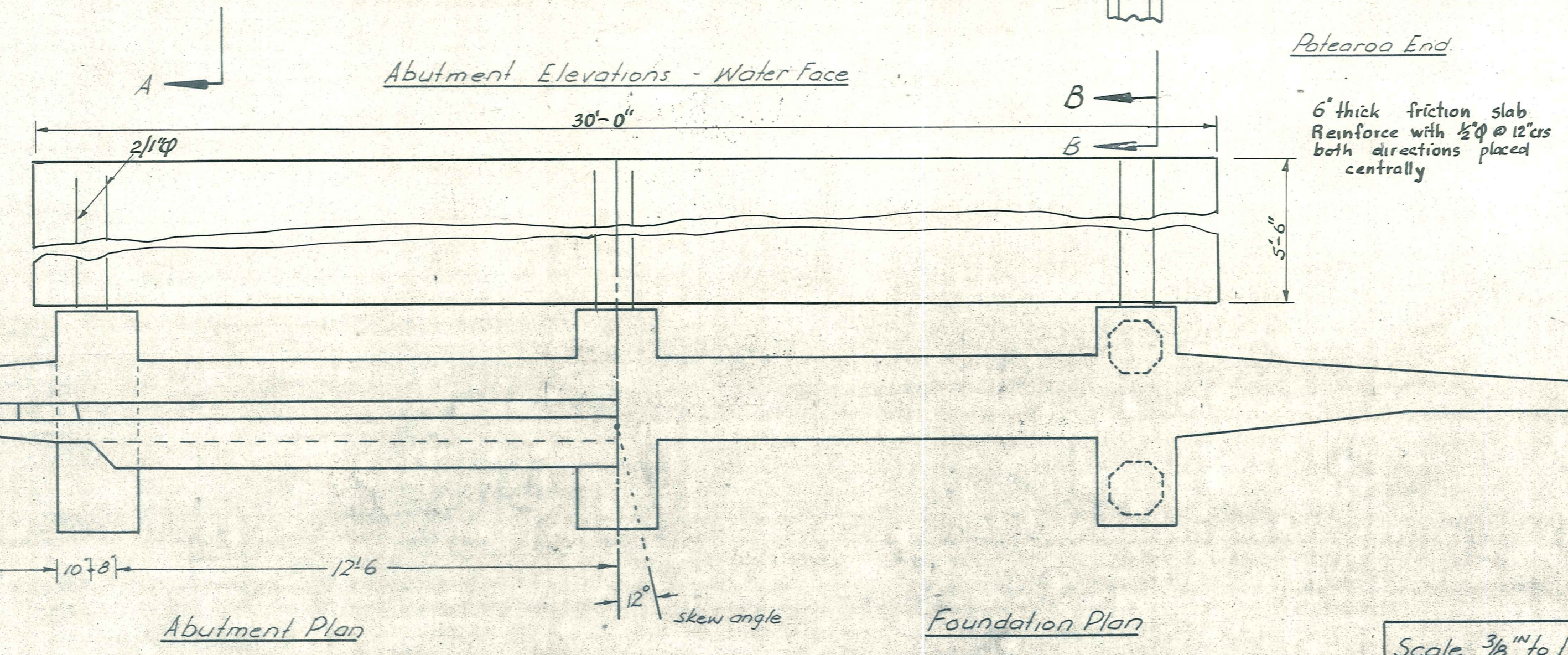
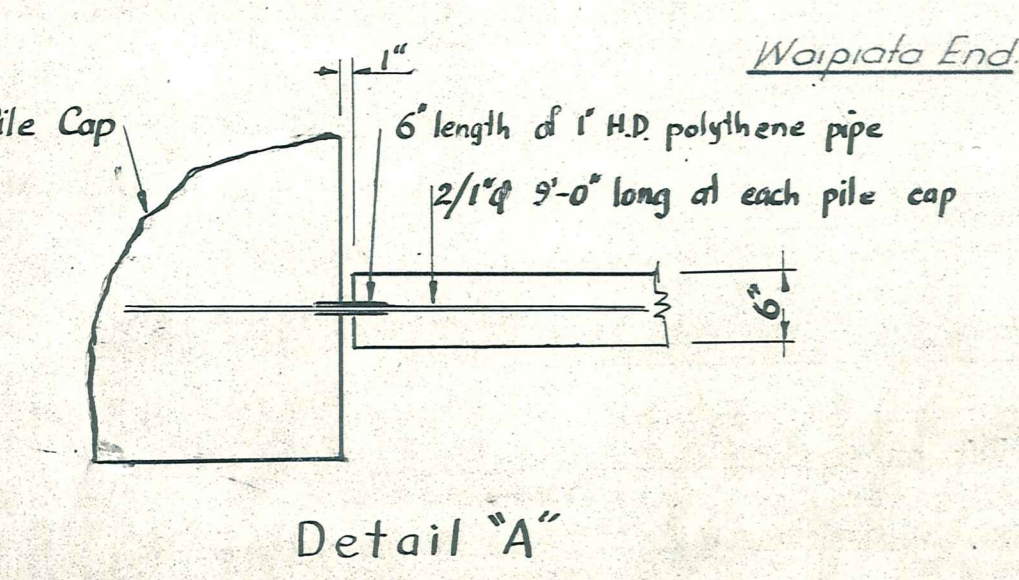
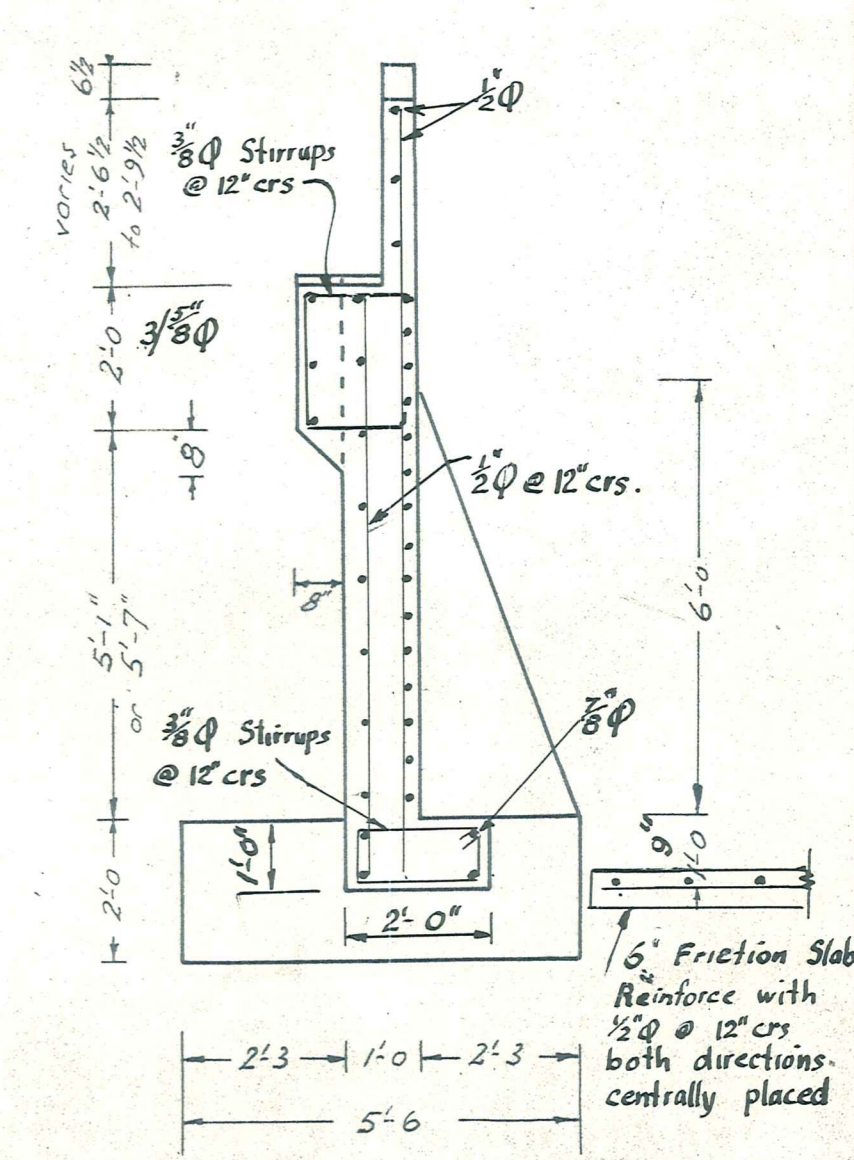
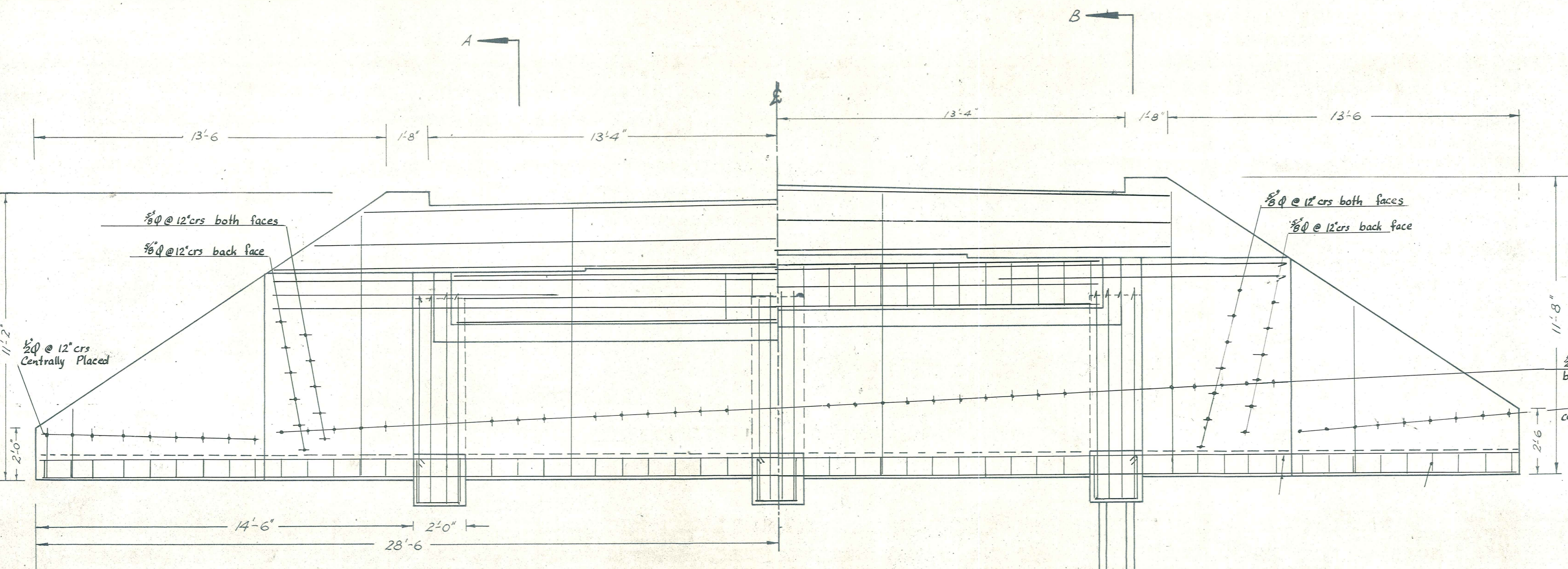
MANIOTOTO  
COUNTY

PIGBURN BRIDGE

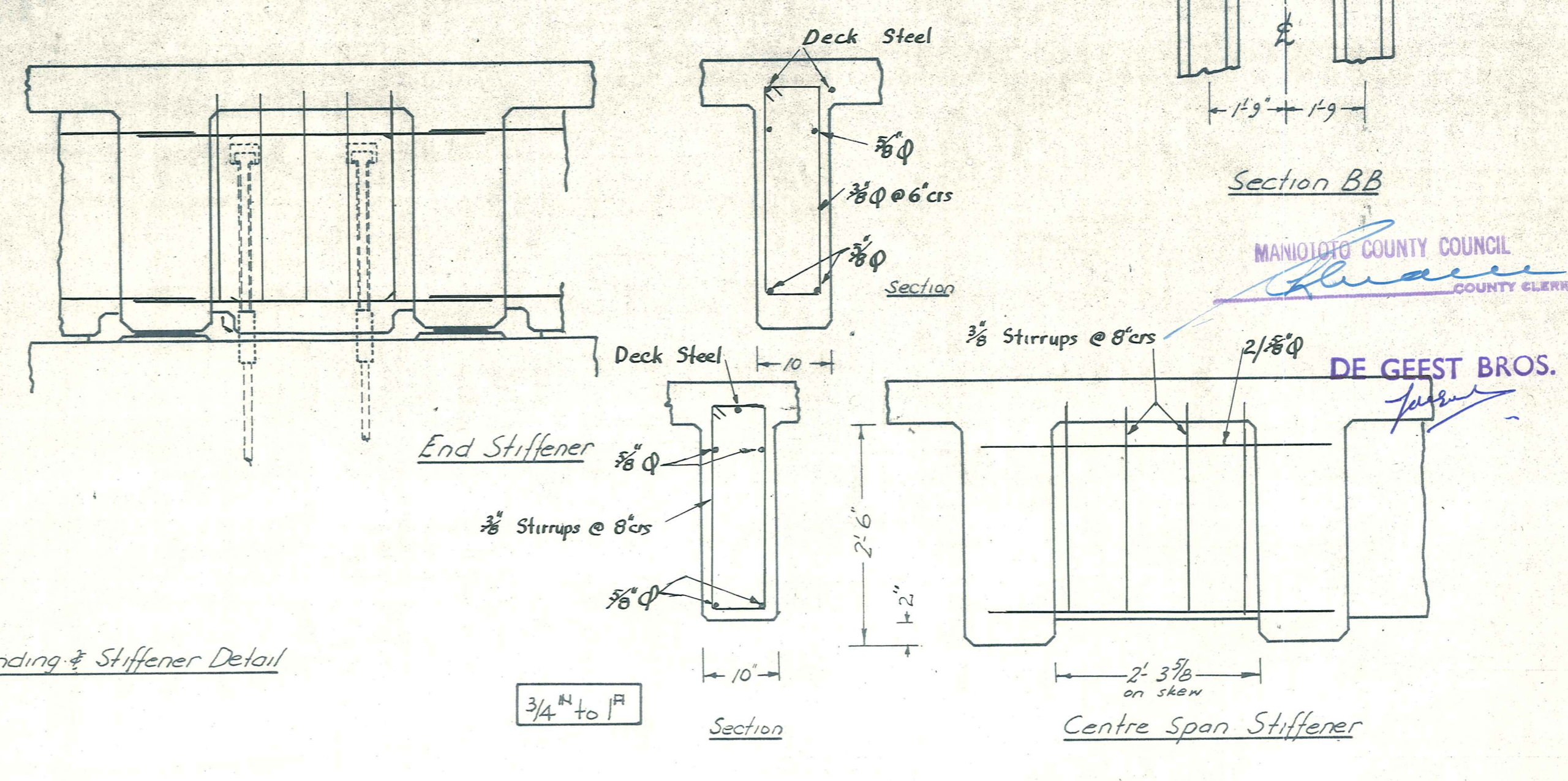
DRAWING  
ABUTMENTS

REFERENCE DRAWINGS		REVISIONS				
Dep't.	No.	Description	No.	By	Date	Description

SCALES		NAME		DATE	SHEET No
as shown		AB Cochran	JR Palmer	June 65	4542-3
CONTRACT No 508.		Checked	Approved		ISSUE A



Foundation Plan Scale 3/8" to 1"



Beam Landing & Stiffener Detail

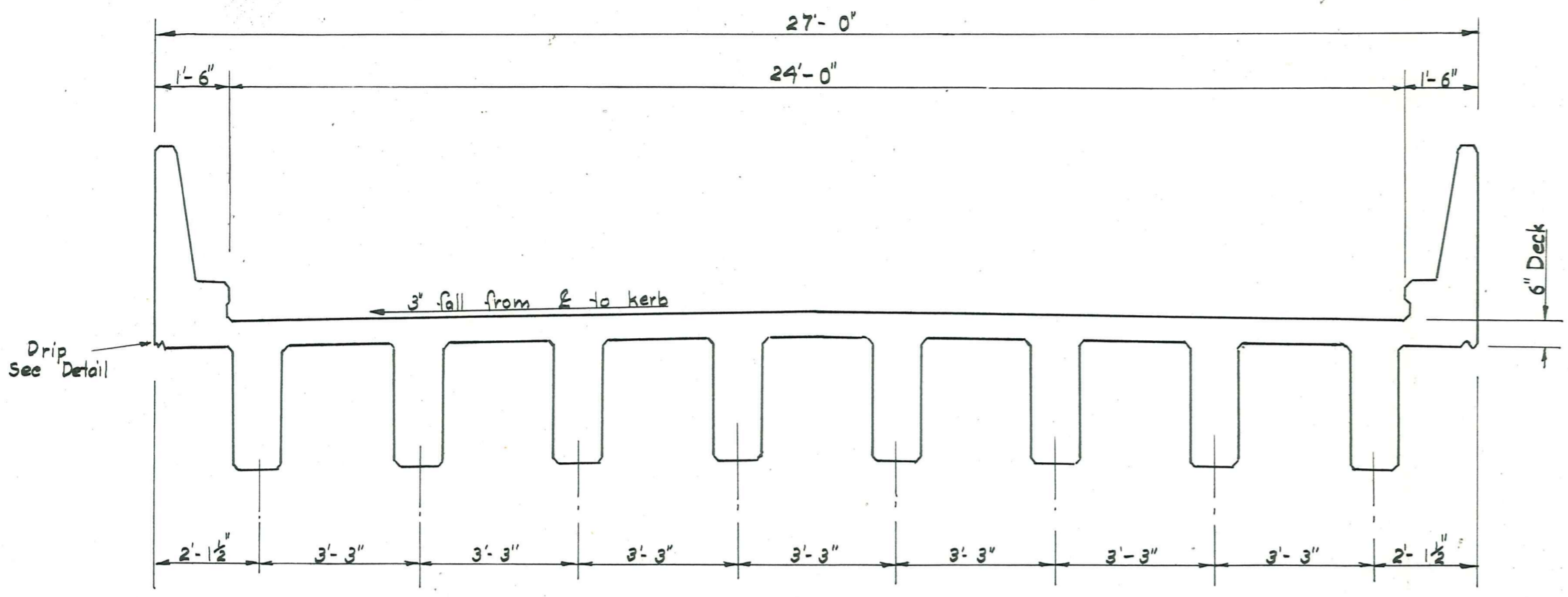
3/4" to 1"

REFERENCE DRAWINGS		REVISIONS	
Dept. No.	Description	No.	By Date Description

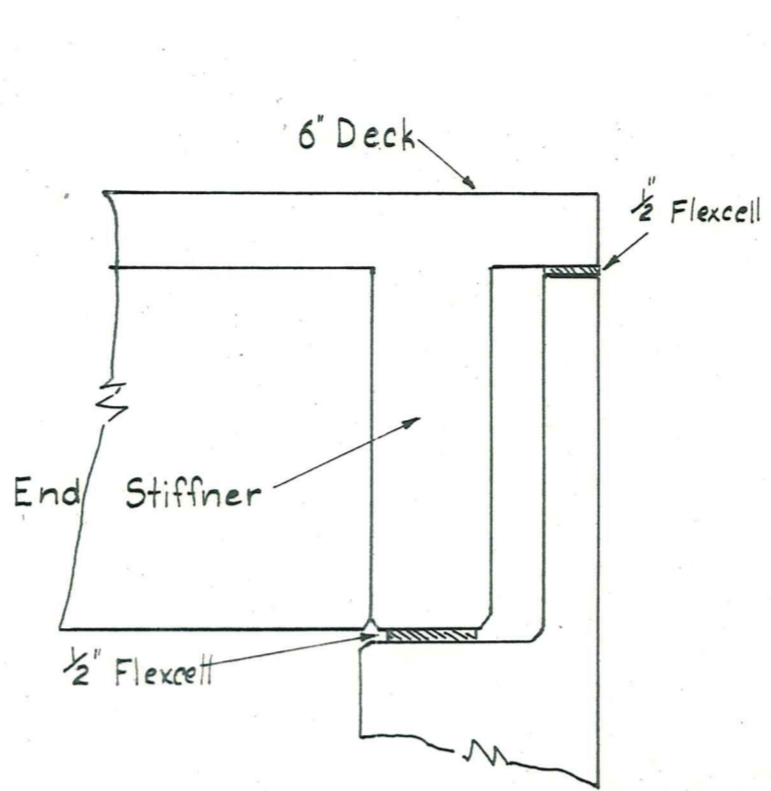
SCALES		NAME		DATE	SHEET No
as shown		Surveyed.	AB Cochran	June 65	4542-4
CONTRACT No 508		Drawn.	J.R. Patten		
		Calculations.	J.L. Patten		
		Traced.			
		Checked.			
		Approved.		Aug 65	ISSUE A

MANIOTOTO COUNTY COUNCIL  
COUNTY CLERK

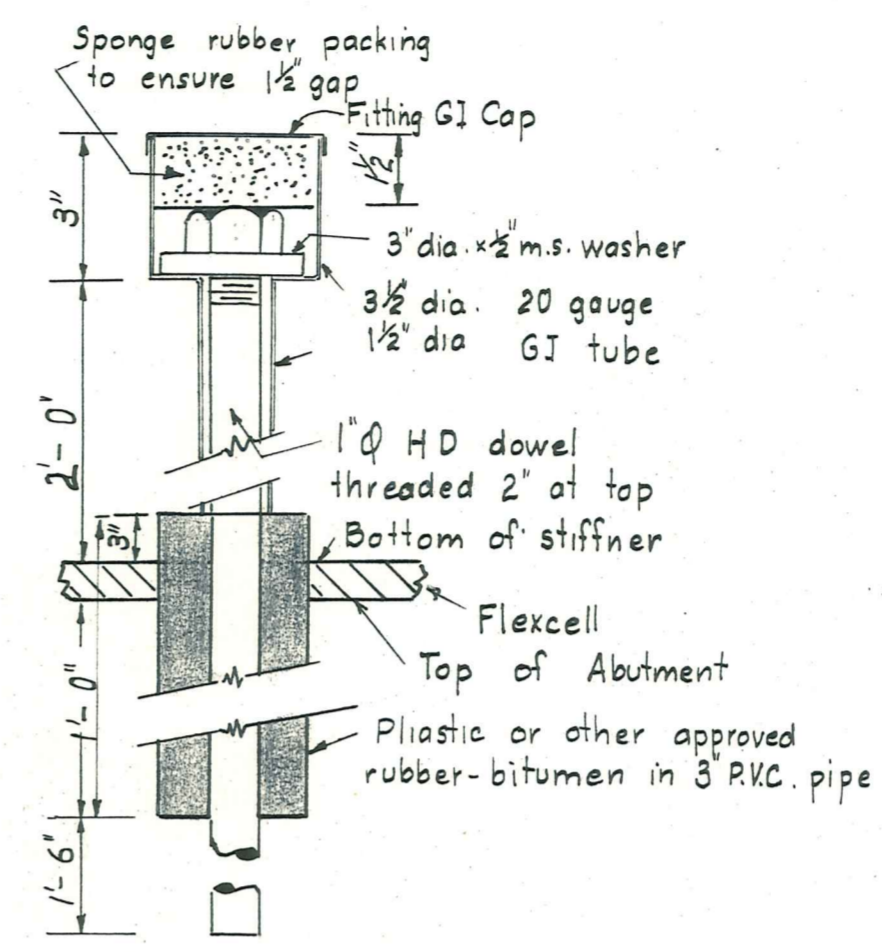
DE GEEST BROS.



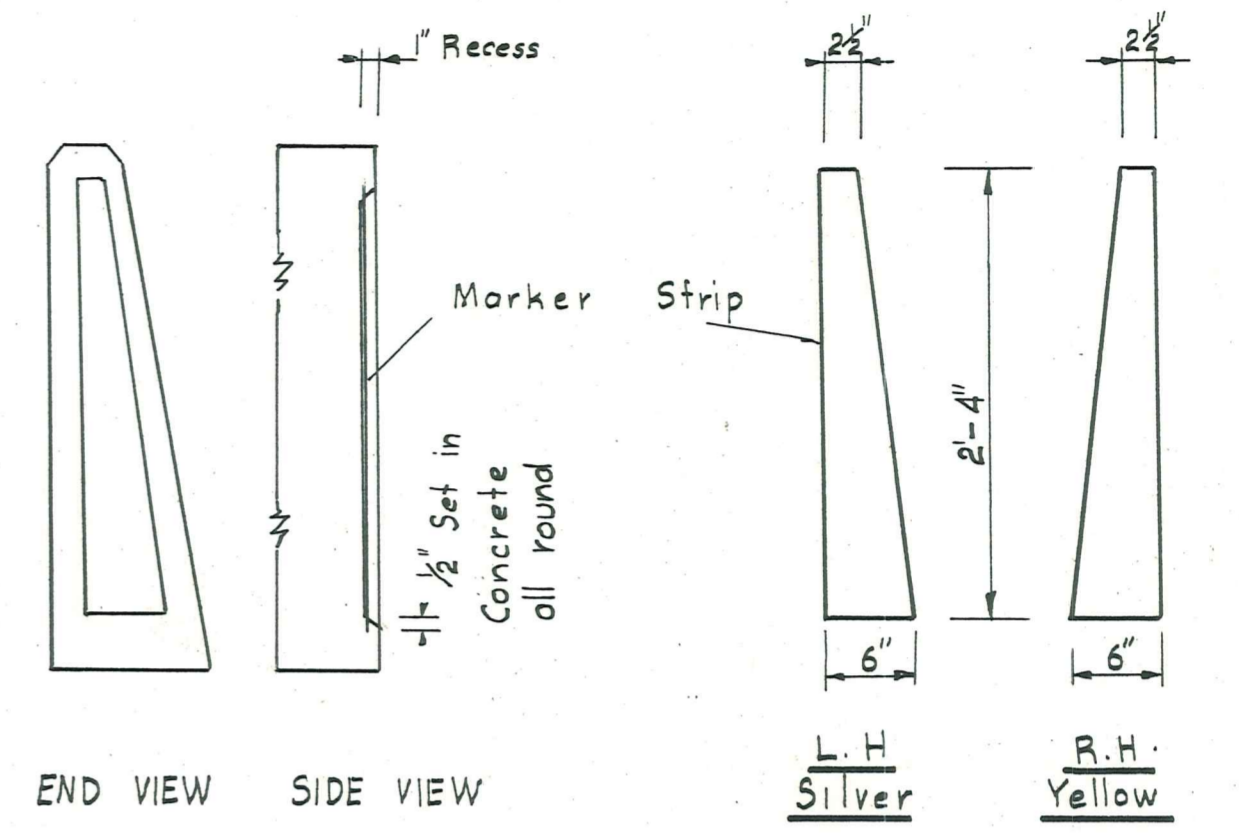
SECTION THROUGH DECK AT RIGHT ANGLES TO BRIDGE  
Scale 3/8" to 1'-0"



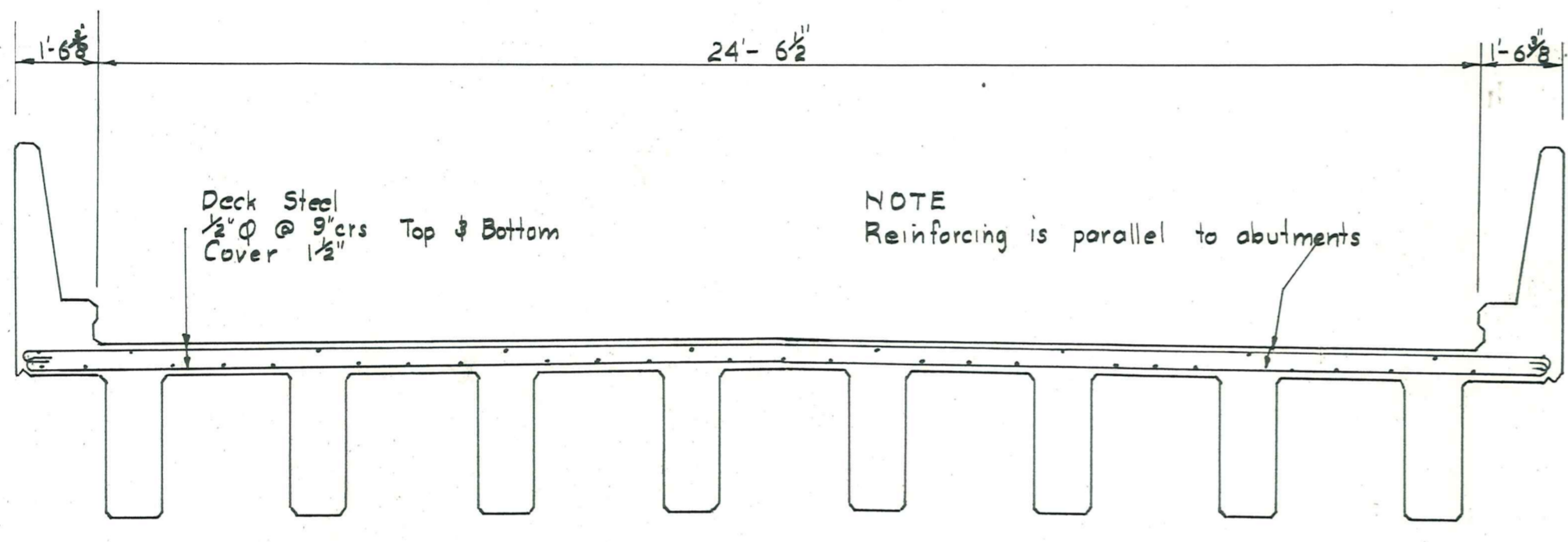
DETAIL AT END STIFFENER  
Scale 3/4" to 1'-0"



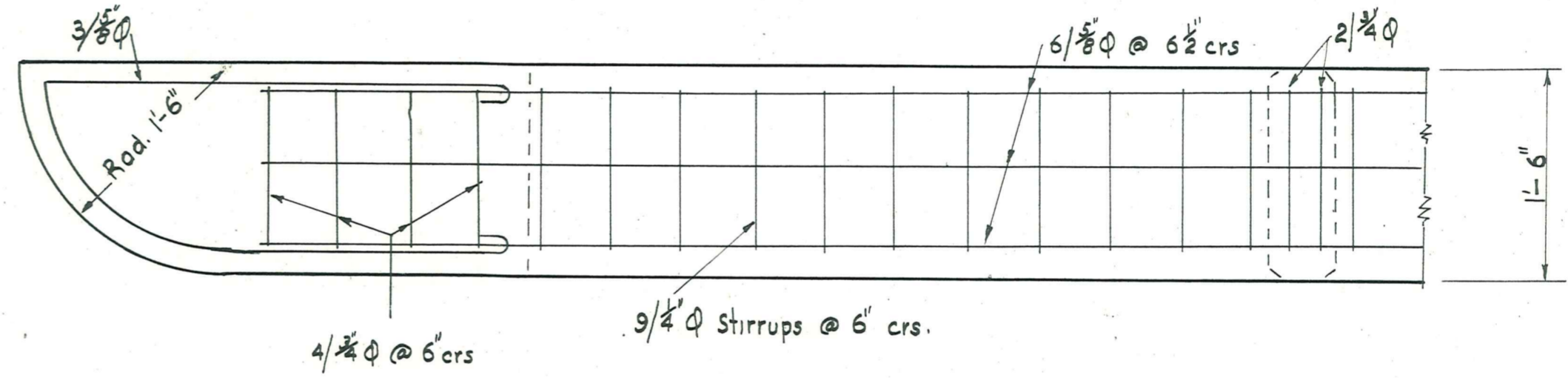
HOLDING DOWN BOLTS



MARKER STRIP DETAILS



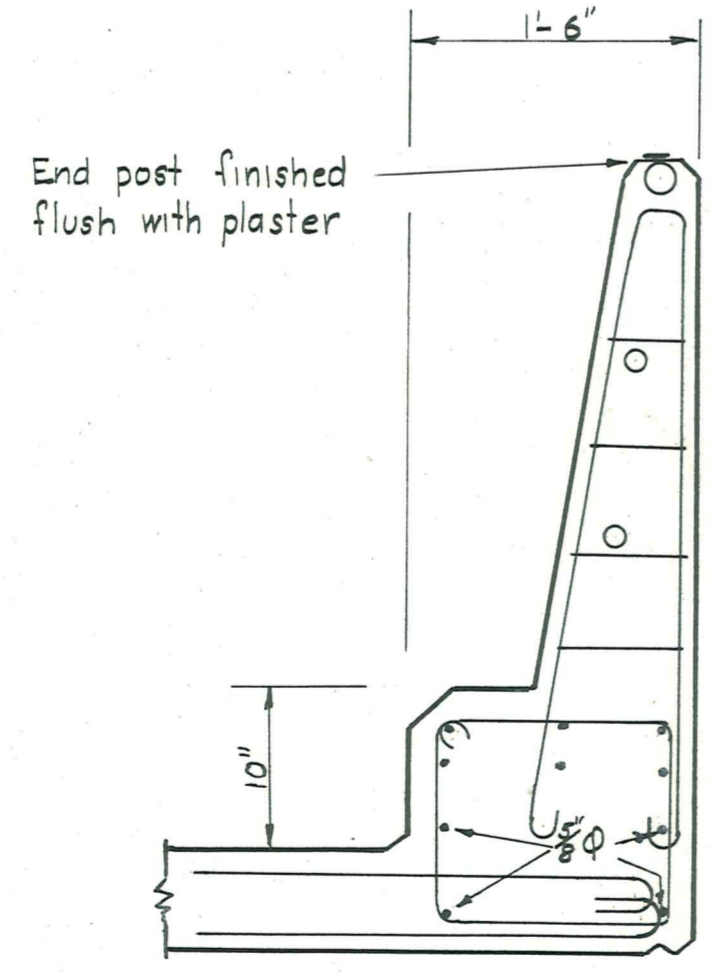
SECTION THROUGH DECK PARALLEL TO ABUTMENT  
Scale: 3/8" to 1'-0"



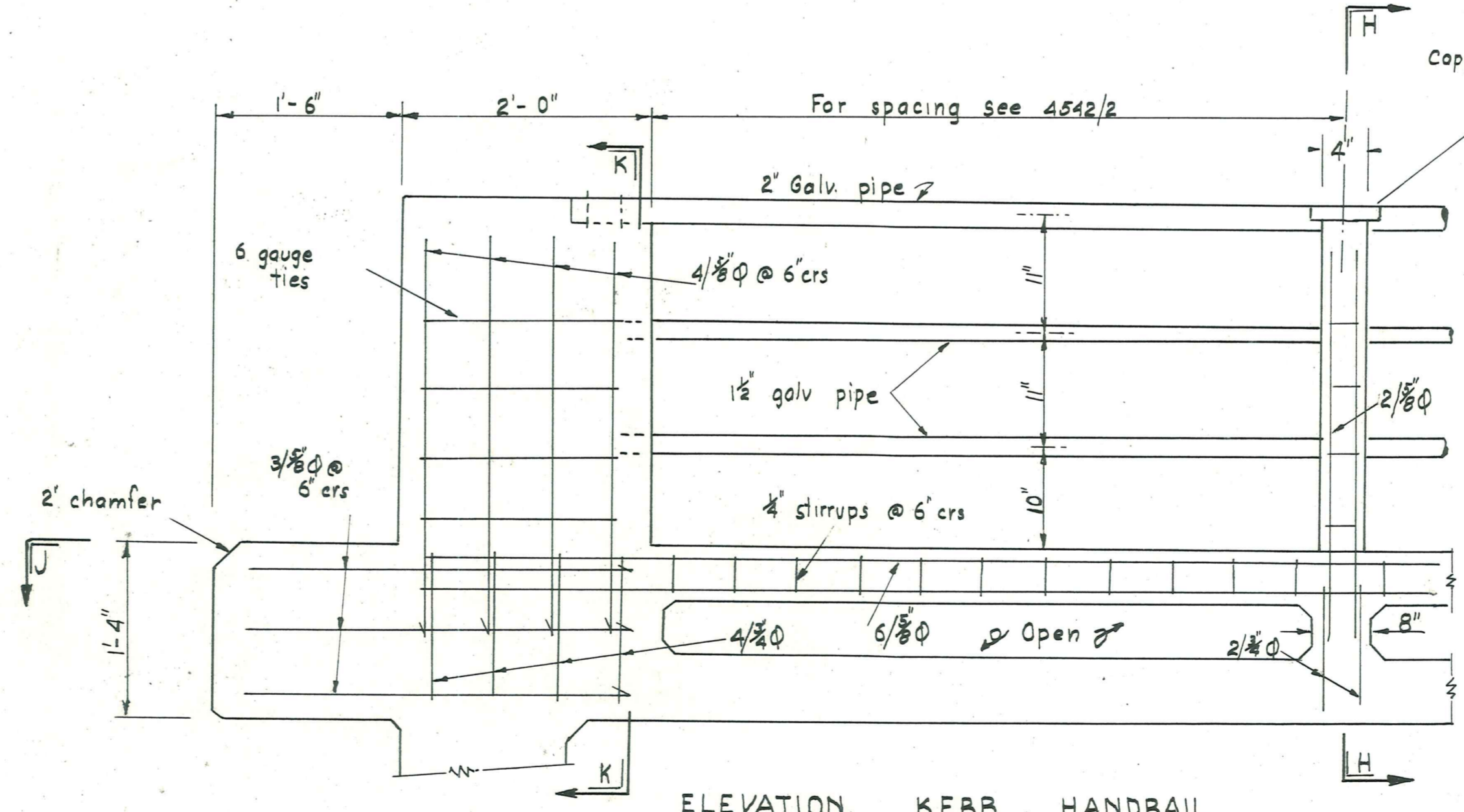
SECTION J-J



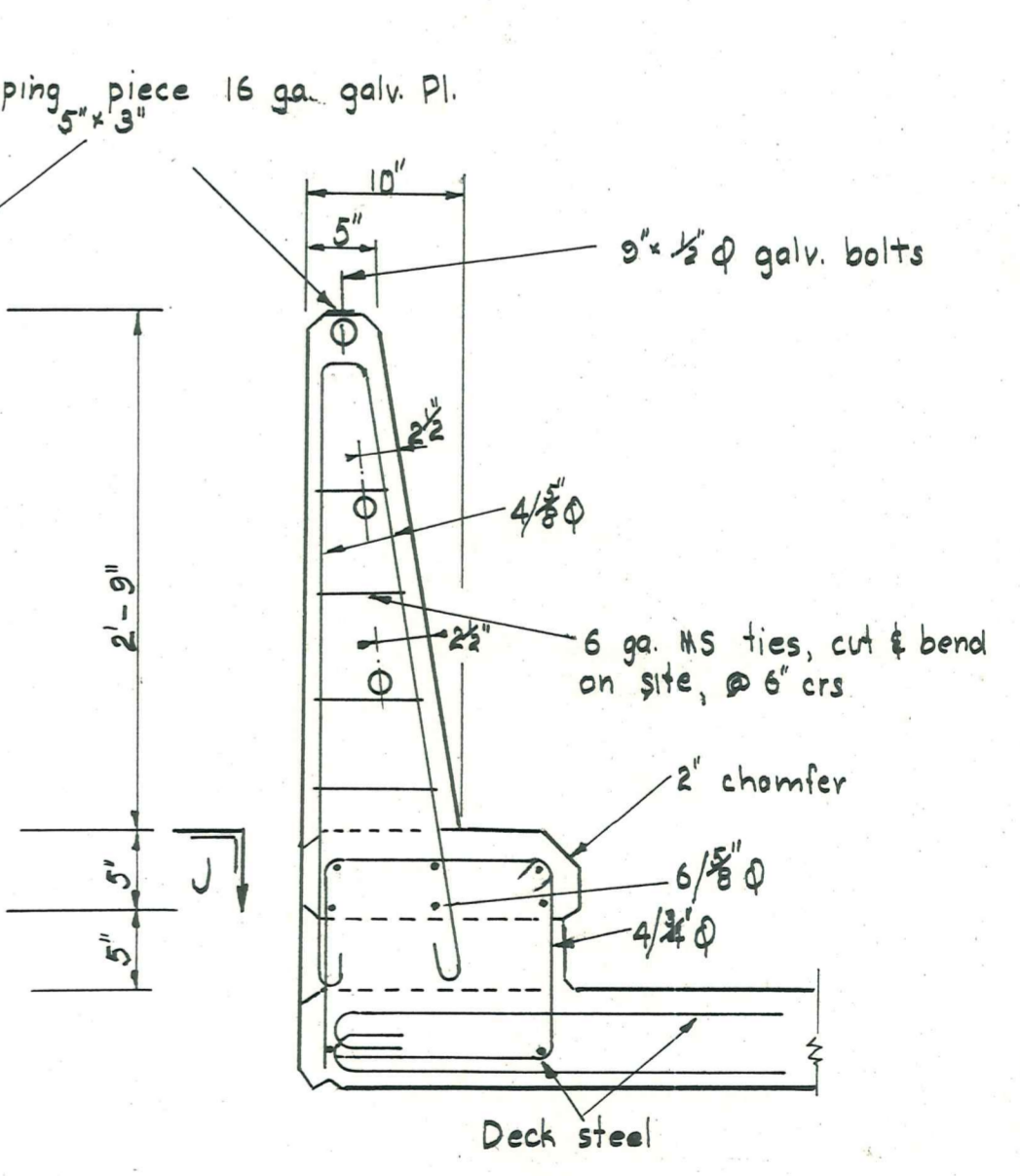
DRIP DETAIL



SECTION K-K  
Other features as for H-H



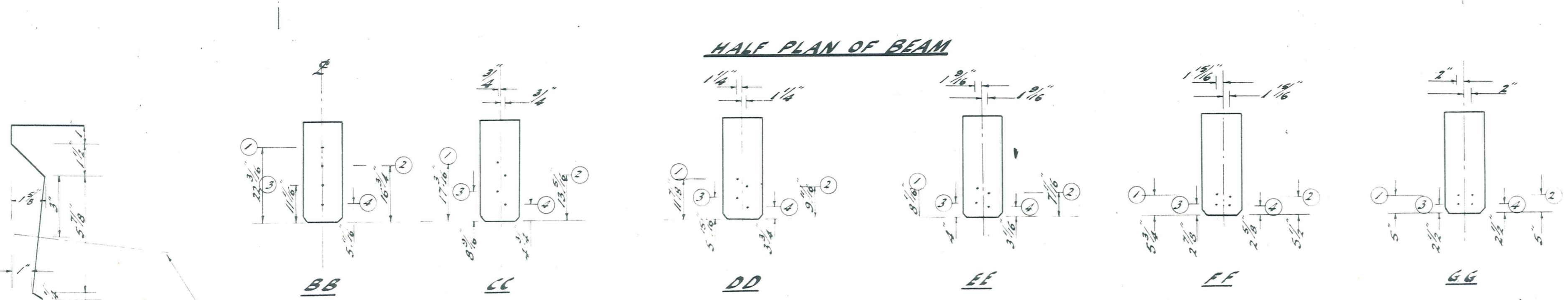
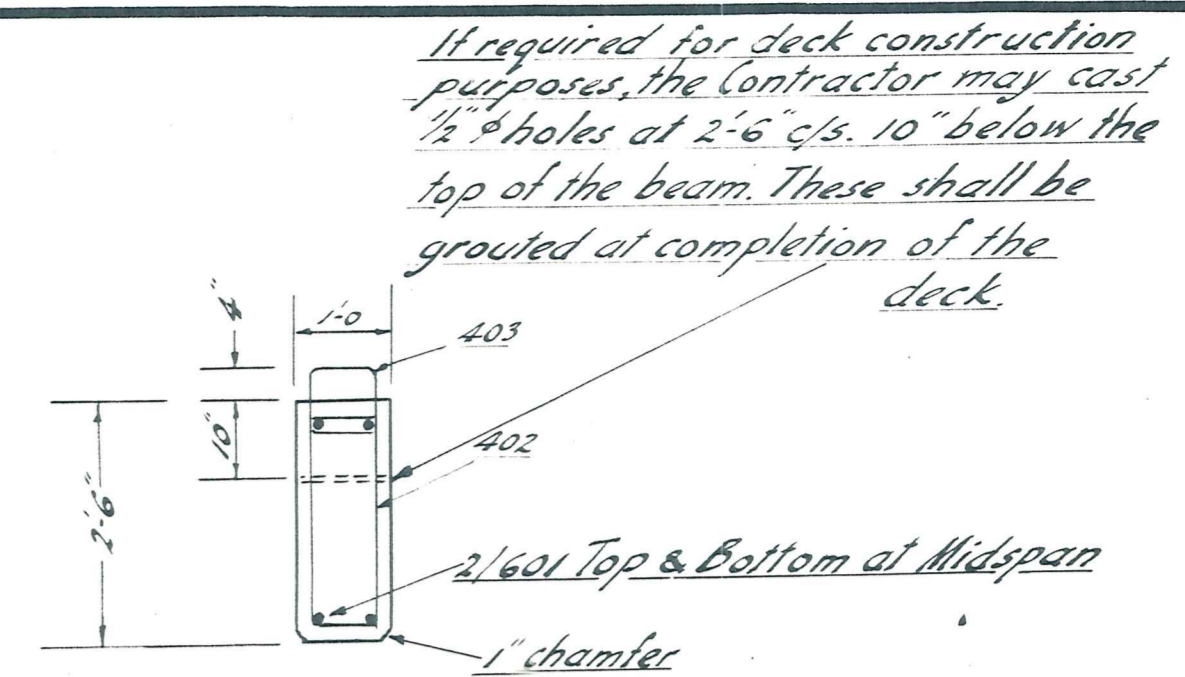
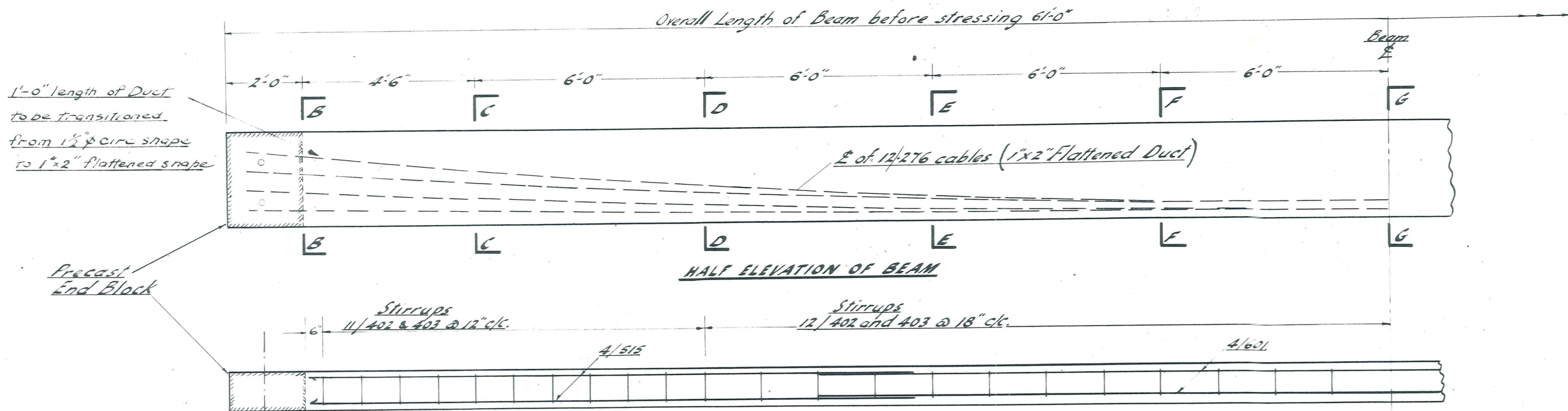
ELEVATION KERB, HANDRAIL



SECTION H-H

DE GEEST BROS.  
MANIOTOTO COUNTY COUNCIL  
COUNTY CLERK

DUFFILL WATTS & KING CONSULTING CIVIL & STRUCTURAL ENGINEERS DUNEDIN & INVERCARGILL. N.Z.	MANIOTOTO COUNTY COUNCIL	PIGBURN BRIDGE	DRAWING DECK, KERB & HANDRAILS GEOMETRY AND REINFORCING	REFERENCE	DRAWINGS	REVISIONS	SCALES	NAME	DATE	SHEET No			
				Dep't. No.	Description.	No.	By.	Date.	Description.	Appr'd	Surveyed.	Drawn.	Calculations.
							CONTRACT No 508.	B.J.C.	July '65				
								B.J.C.	Aug. '65				
										ISSUE A			



**NOTE**

Completed Beams must be handled right way up and shall be lifted and supported at the ends only.

Weight of Beams = 10.2 Tons

Min. Concrete strength for on site conc. 4,000 p.s.i.

Cables shall not be stressed until concrete strength of 4000 p.s.i. has been reached.

Order of Stressing Cables to be 1,2,3,4.

Stressing to be single ended at alternate ends.

Prestress force required at transfer = 103,500 lbs. per cable.

After stressing excess lengths of wire should be gas cut. (Do not use bolt cutters)

All cable ducts to be grouted after stressing.

Min. Cover to Main M.S. Reinforcing = 1 1/2"

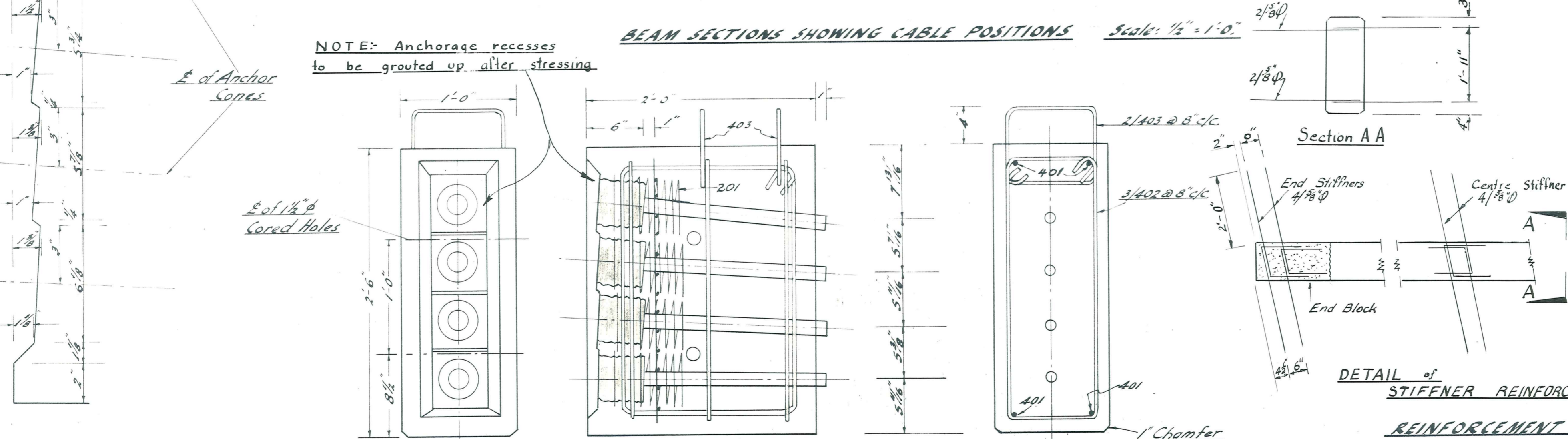
**Tolerances**

Gross sectional dimensions ± 1/8"

Location of cable ducts ± 1/4"

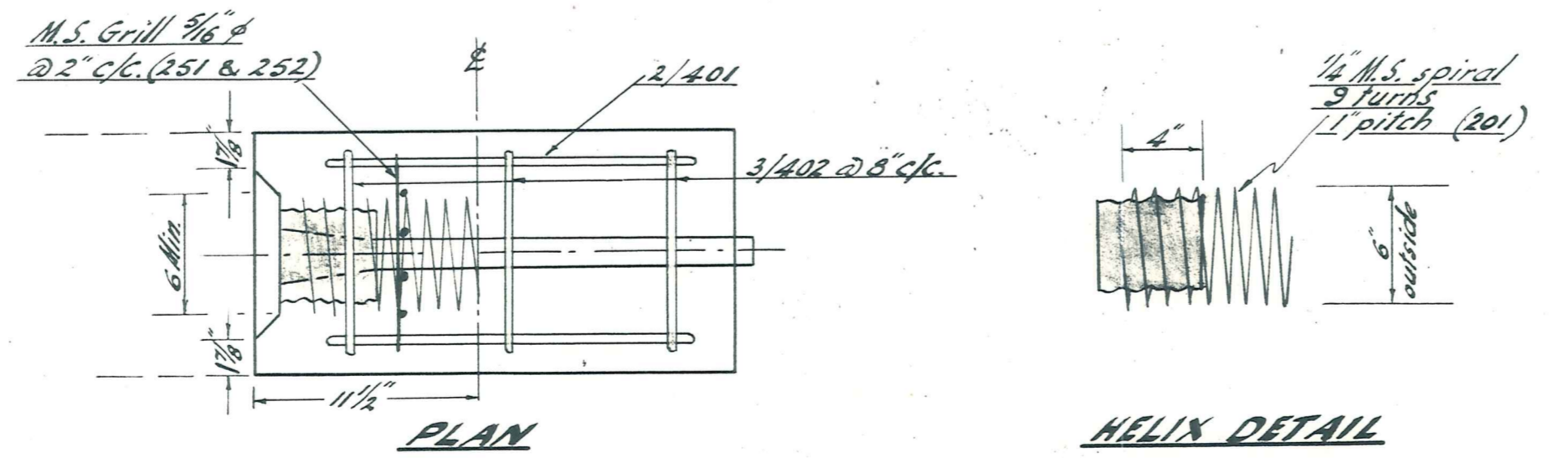
Length dimension for Beam ± 1/2"

The top of the beams shall be artificially roughened after compaction with a wooden float.



**NOTE**

- Standard 12W/276 anchorages to be placed as shown.
- 1 1/2" Galv. Iron Ducts to be sealed to anchorages with tape.
- Spiral Reinforcement to be screwed through grill.
- Min. concrete strength 6,000 p.s.i. at 28 days.
- Top of Anchor Block to be finished with a wooden float and artificially roughened.



**REINFORCEMENT FOR ANCHOR BLOCK ONLY**

Mark	Dia.	Cut Length	No. per Anchor Bl.	Shape
201	1/4"	14'-2"	4	6 outside spiral 9 turns pitch 1"
251	5/16"	9'-3 1/2"	1	2'-3" 2" c/c N.T.S.
252	5/16"	10'-11"	1	9" 2'-0" (2" c/c)
401	1/2"	8'-0"	2	1'-6" 2'-3"
402	1/2"	6'-10"	3	10" 2'-4"
403	1/2"	3'-6"	2	10" 8"

Note: All dimensions are to the outside of rods.

DE GEEST BROS.

MANIOTOTO COUNTY COUNCIL

PRECAST END BLOCK 6,000 p.s.i. Conc. Scale: 1/2" = 1'-0"