

S.V.	20 mph.
D	50°00'
L	100.76'
A.O	105.61'
A.X	15.28'
R	116.12'
S.E	0.22"/1'
Corr.S.V.	17 mph.

S.V.	15 mph
D	75°00'
L	82.42'
R	63.27'
A.O	92.37'
A.X	22.06'
S.E.	0.26"/1'

Scale: 30 feet to an inch.

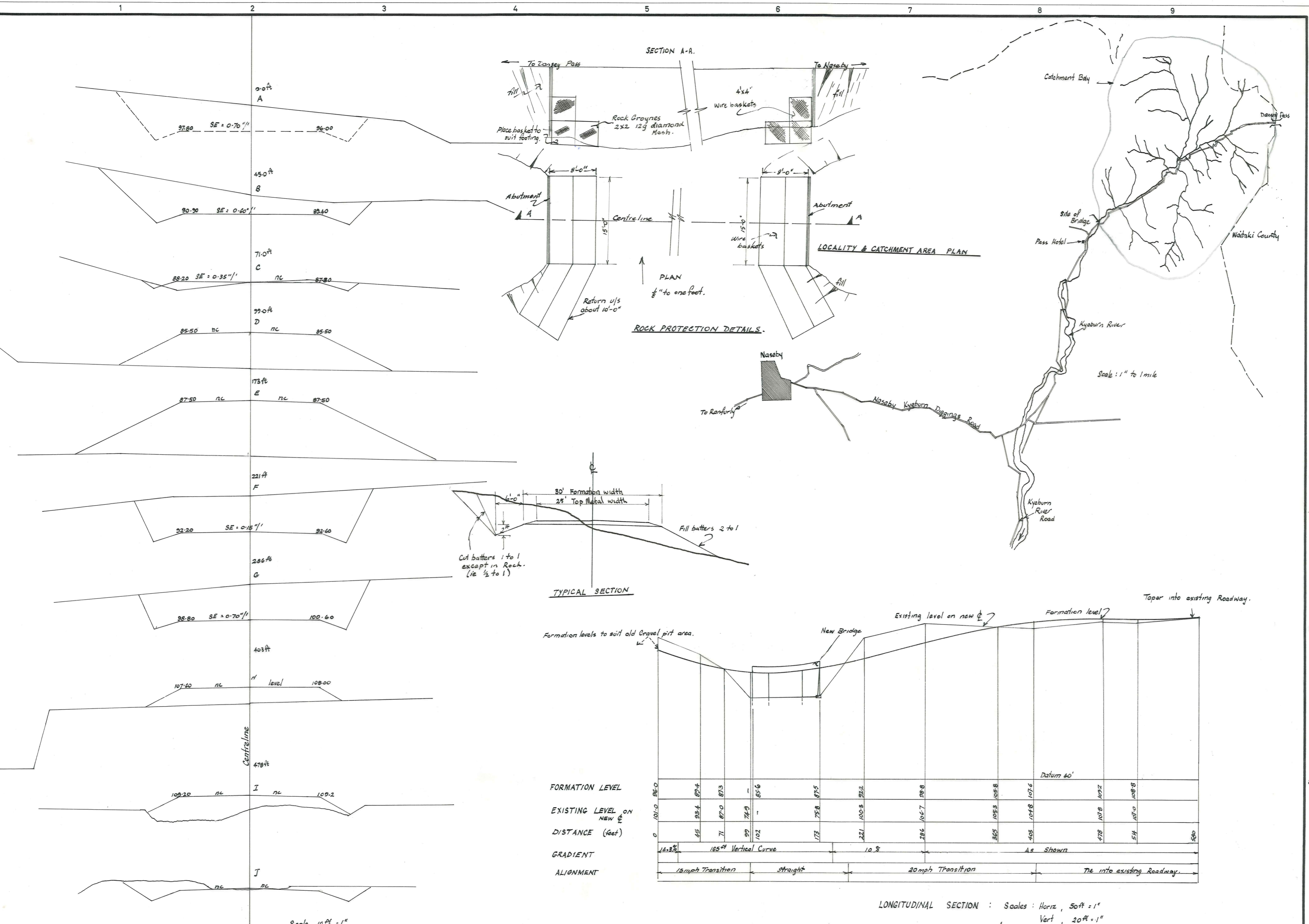
MANIOTOTO COUNTY COUNCIL

DANSEY PASS BRIDGE

AMENDMENTS					NAME		DATE
No.	By	Date	Description	Apprd.	Surveyed	D.W. Jack	4.1.68
					Drawn	"	15.2.68
					Calculations	"	"
					Traced	"	"
					Checked	"	Oct 1968
					Approved	"	Nov. 68

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

File 6/83  
 L.Bk. 230  
 F.Bk.  
 JOB No. 4841/1  
 Sheet of Sheet



MANIOTOTO COUNTY COUNCIL

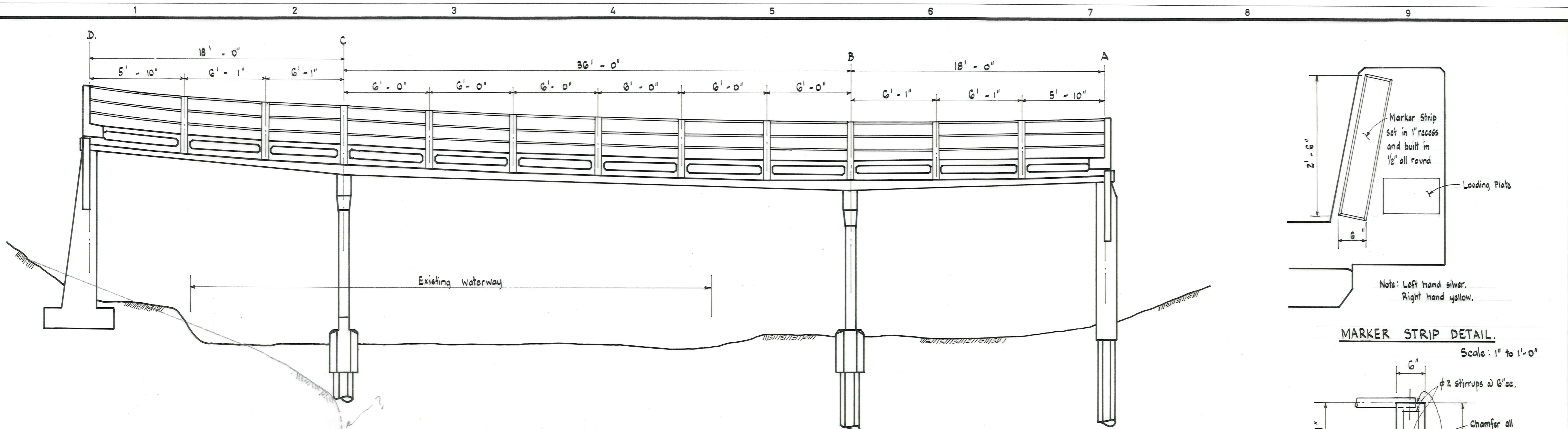
DANSEY PASS BRIDGE

AMENDMENTS				NAME	DATE
No.	By	Date	Description	Apprd.	Surveyed
					Drawn
					Calculations
					Traced
					Checked
					Approved

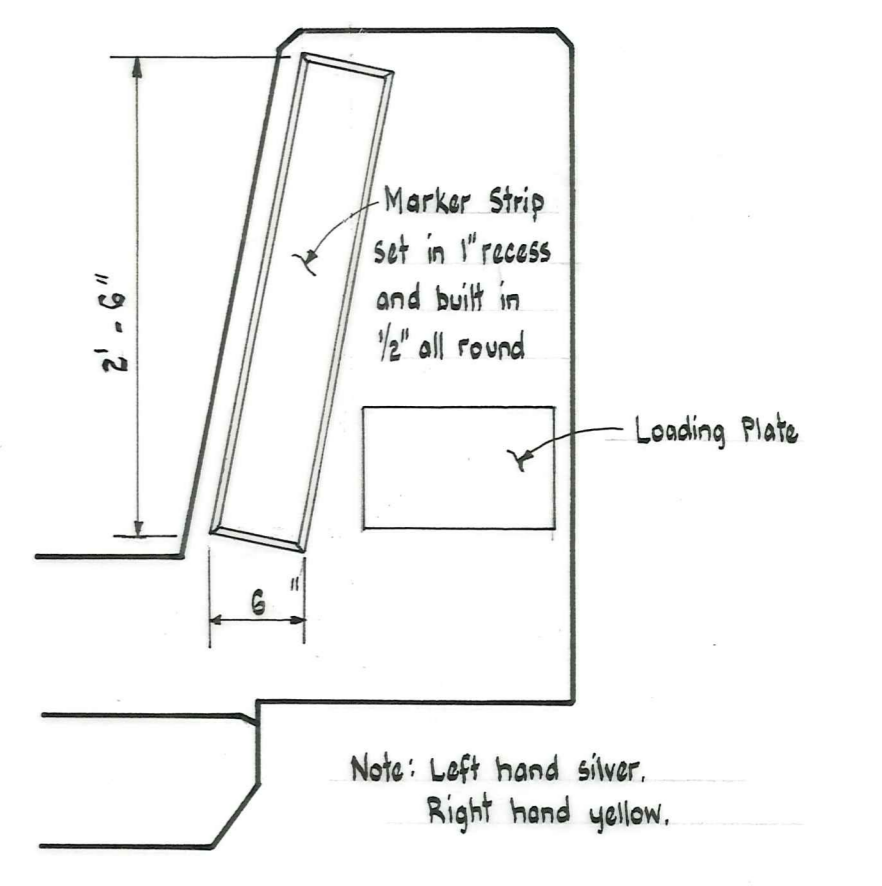
**DUFFILL, WATTS & KING**  
 CONSULTING CIVIL & STRUCTURAL ENGINEERS  
 DUNEDIN & INVERCARGILL N.Z.

File 6/83  
 L.Bk. 230  
 F.Bk.  
 JOB No. 4841/2  
 Sheet of Sheets

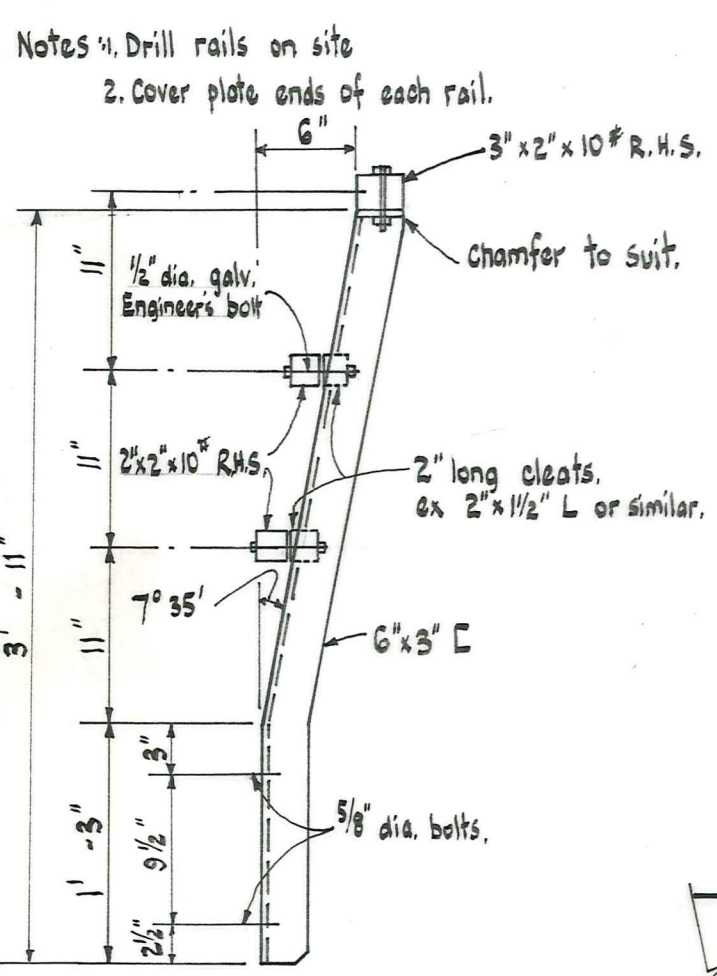
LONGITUDINAL SECTION : Scales : Horiz, 50ft = 1"  
 Vert, 20ft = 1"  
 for plan : see dwg 4841/1



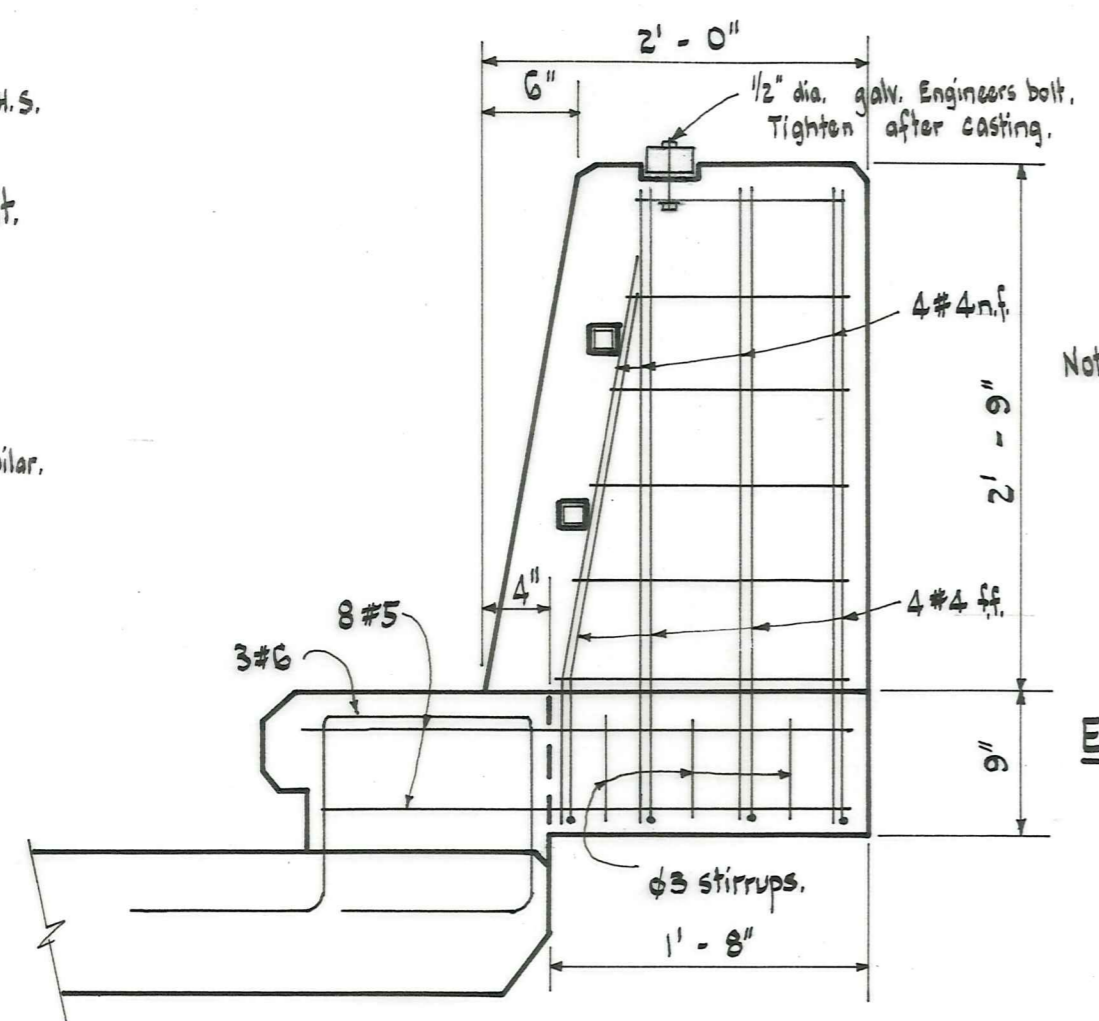
**ELEVATION OF BRIDGE**  
Scale: 1/4" to 1'-0"



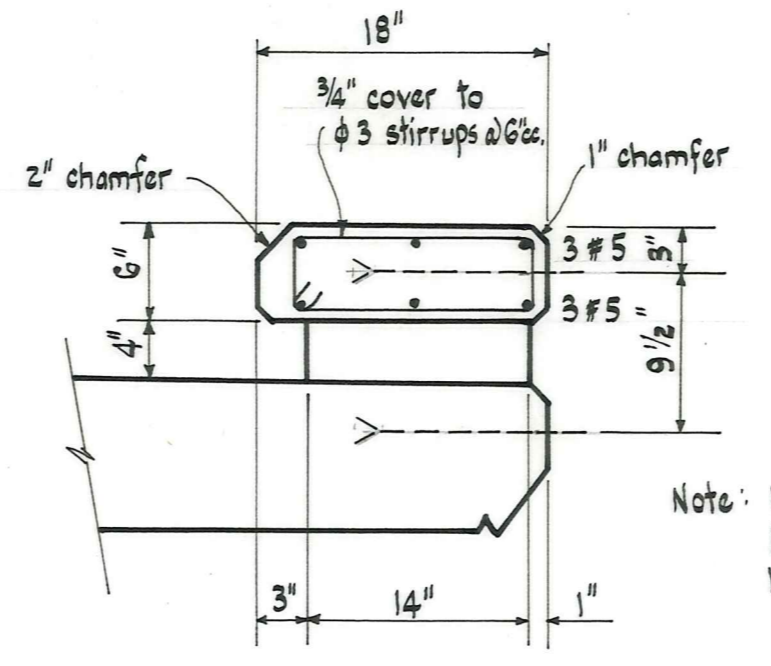
**MARKER STRIP DETAIL**  
Scale: 1" to 1'-0"



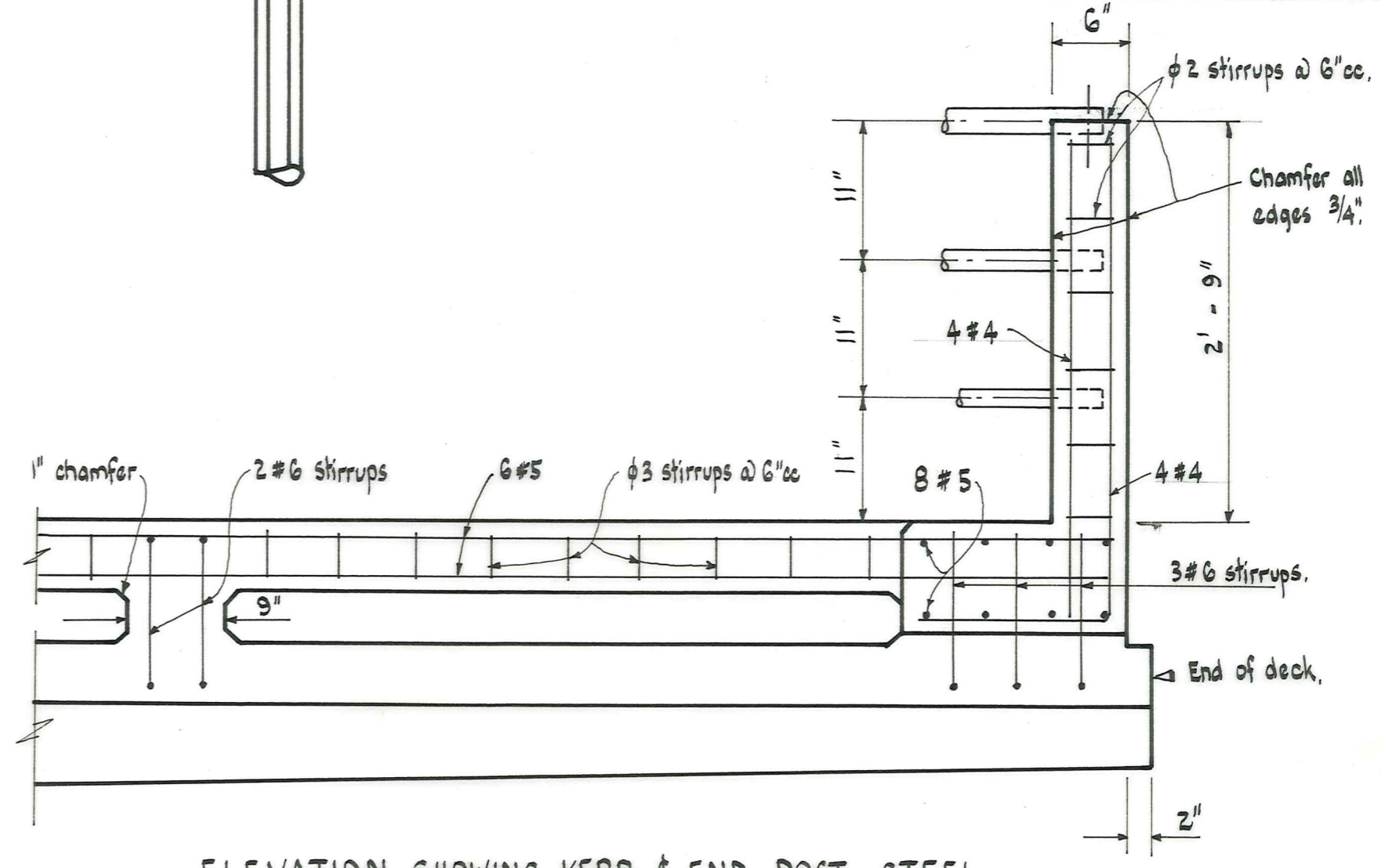
**HANDRAIL POSTS**  
Scale: 1" to 1'-0"  
22 off.



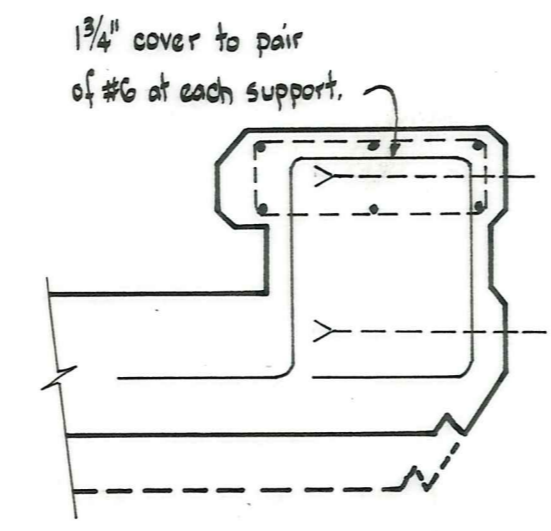
**END POST DETAIL**  
Scale: 1" to 1'-0"  
(2 right hand, 2 left hand)



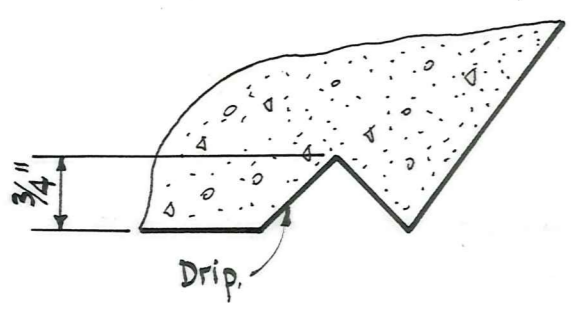
**KERB REINFORCEMENT**  
Scale: 1" to 1'-0"



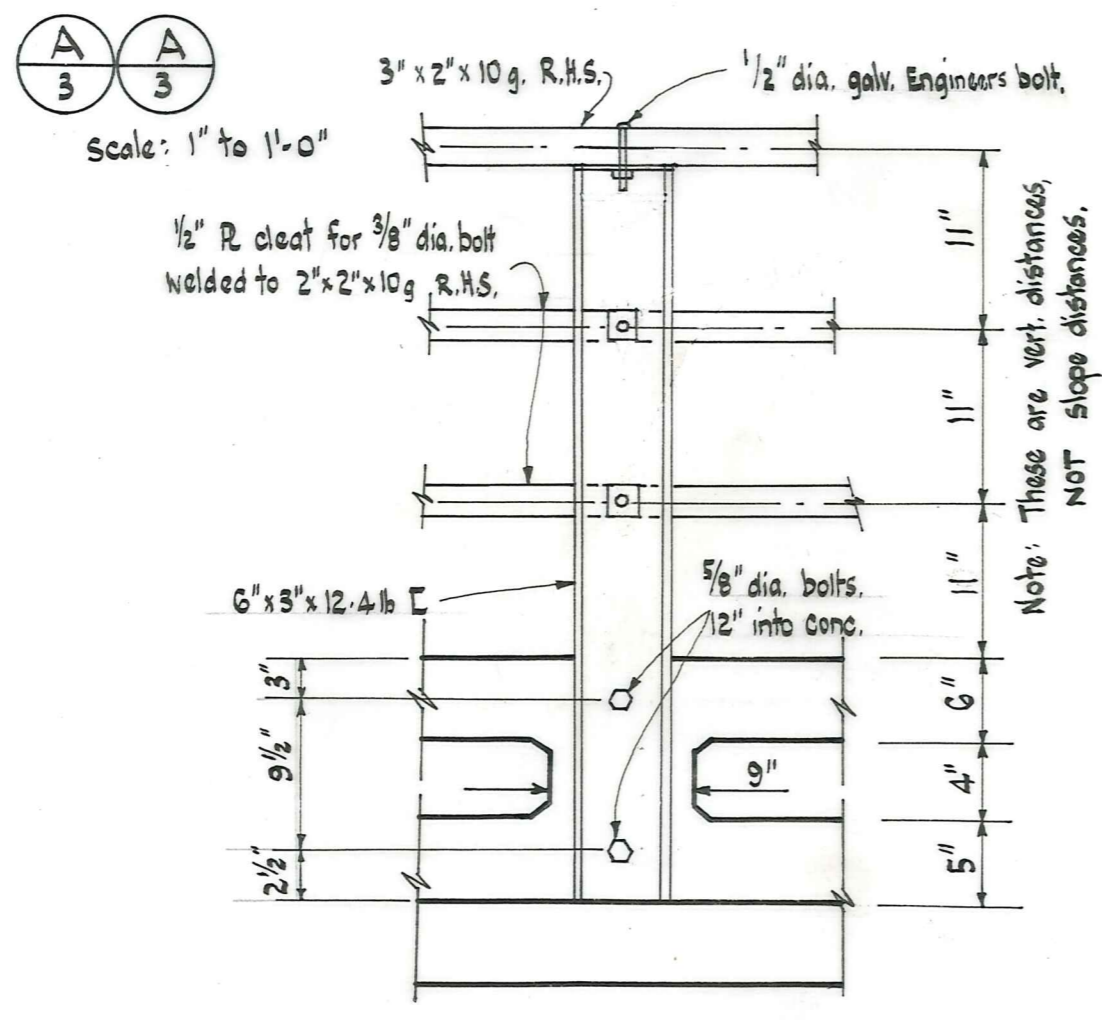
**ELEVATION SHOWING KERB & END POST STEEL**  
Scale: 1" to 1'-0"



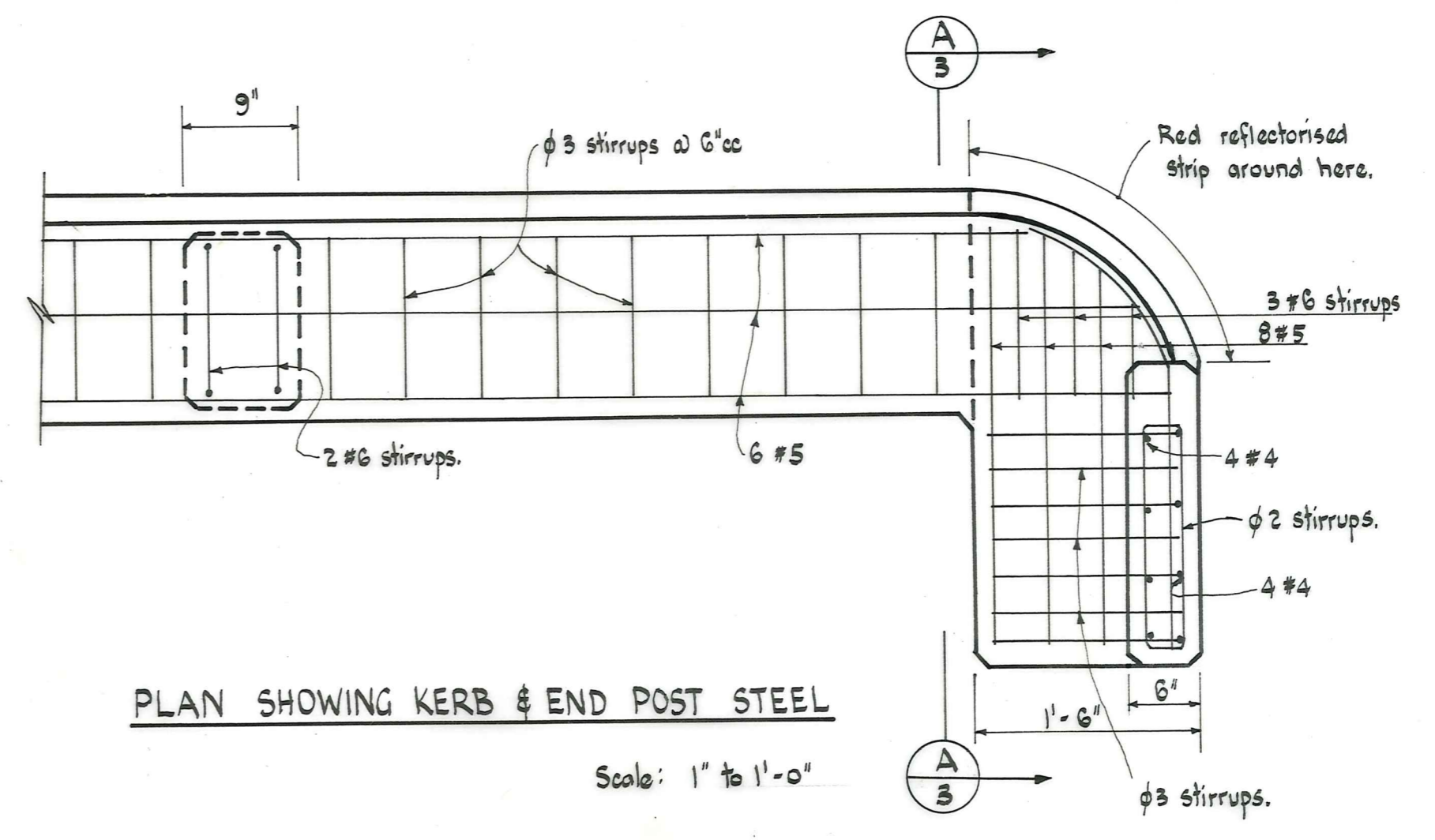
**KERB SUPPORT REINFORCEMENT**  
Scale: 1" to 1'-0"



**D RIP DETAIL**  
Scale: 1/2 Full size

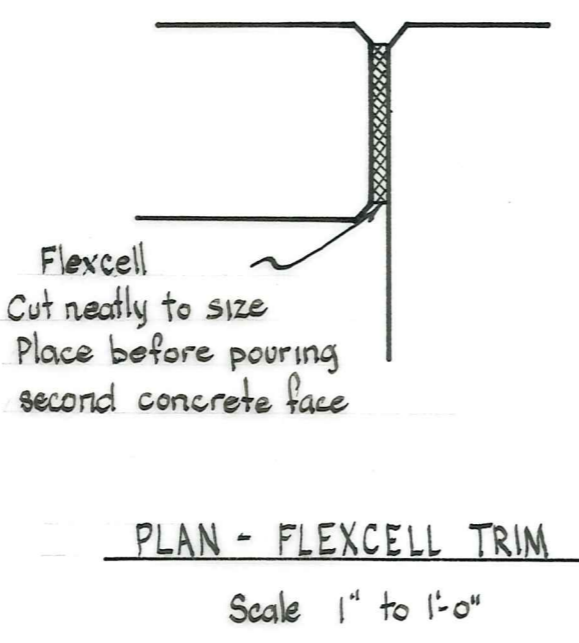
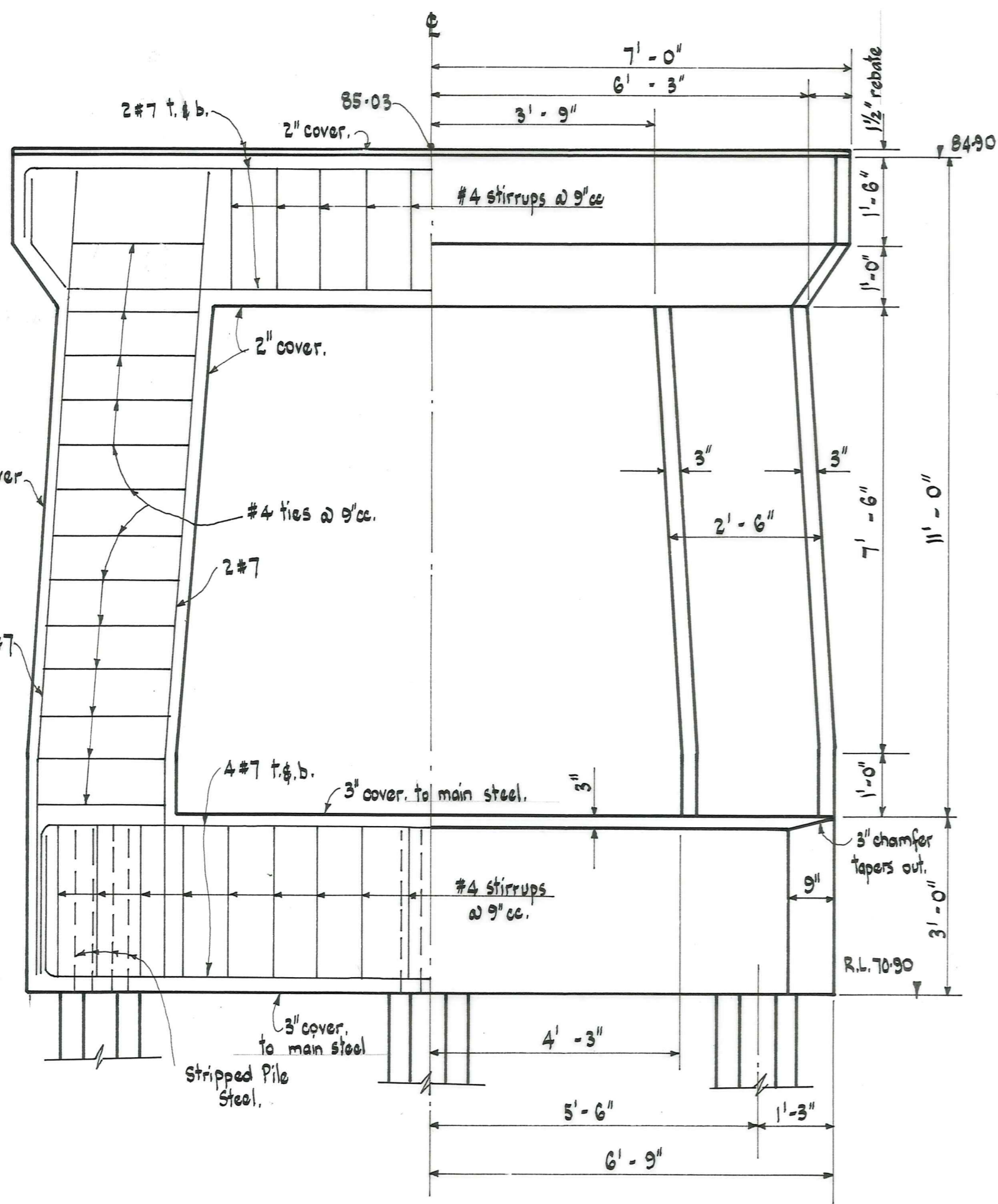


**ELEVATION HANDRAIL POST**  
Scale: 1" to 1'-0"

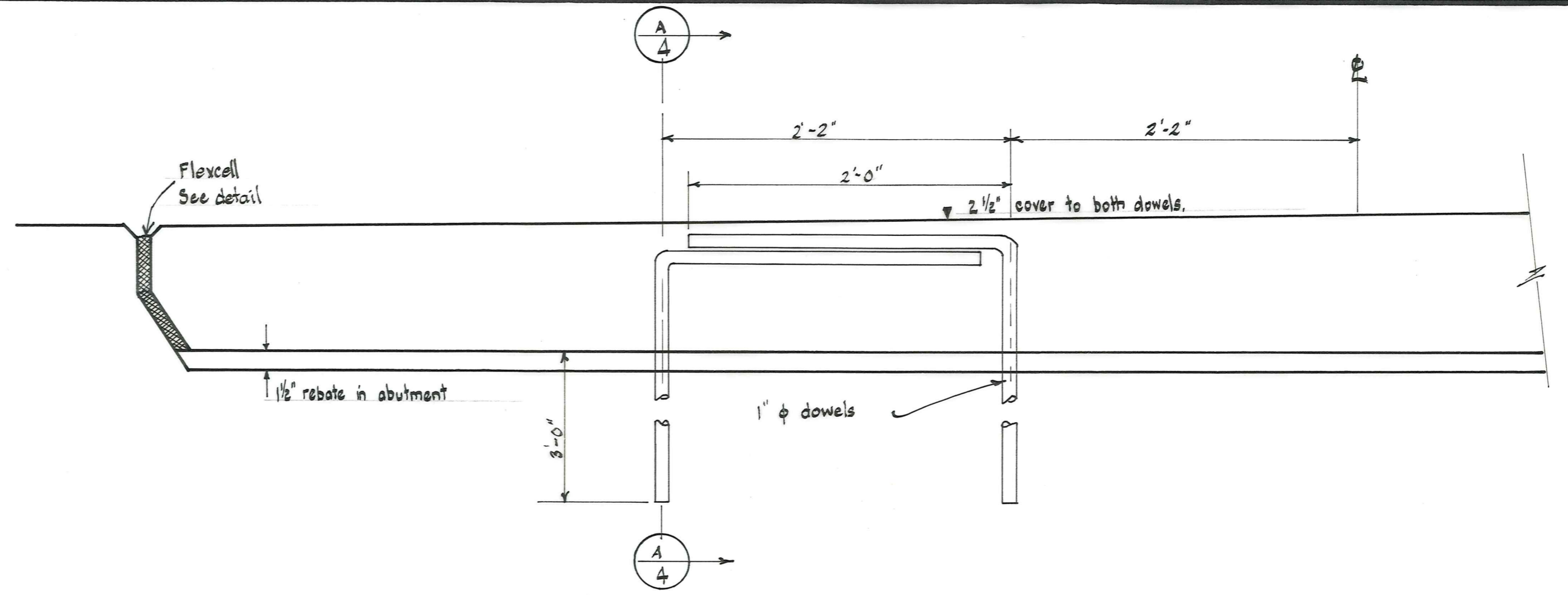


**PLAN SHOWING KERB & END POST STEEL**  
Scale: 1" to 1'-0"

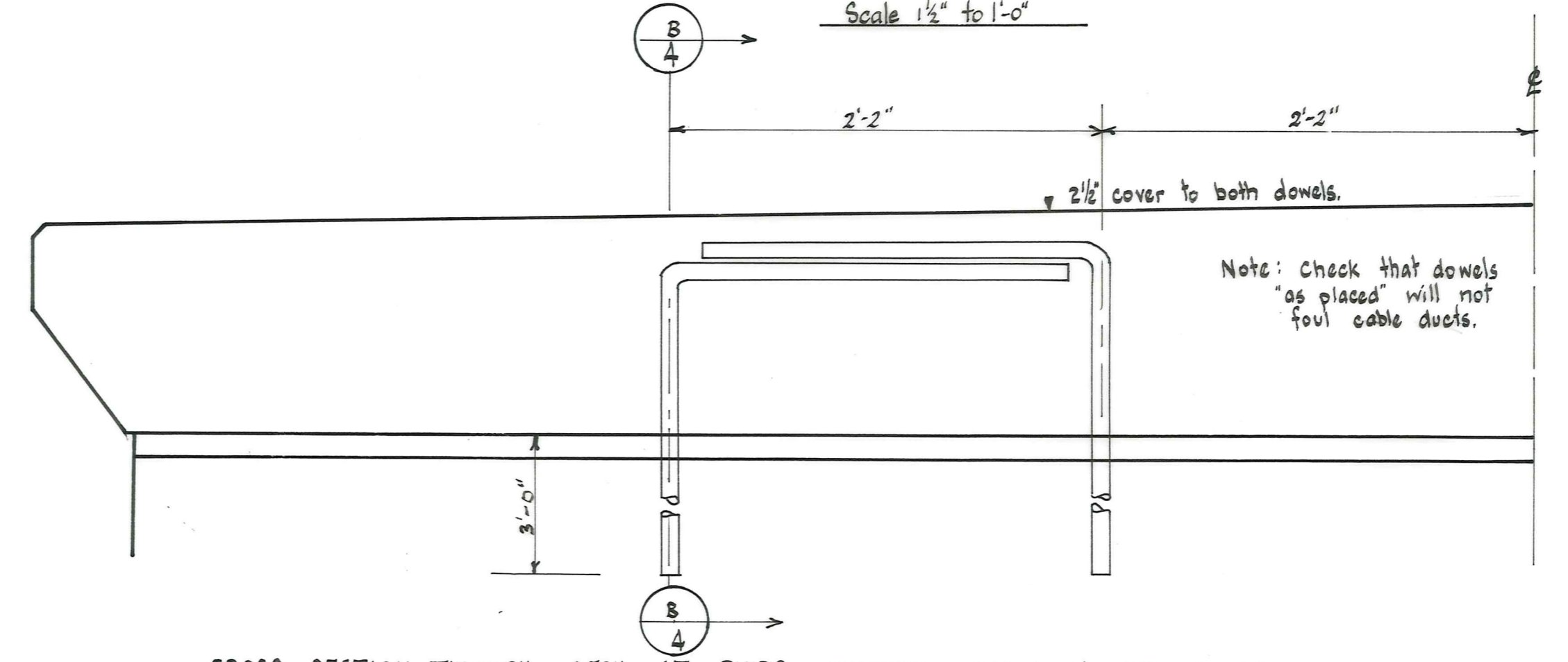
AMENDMENTS					NAME		DATE
No.	By	Date	Description	Apprd.	Surveyed	D. Jack.	
					Drawn	R. Adam	Oct. '68
					Calculations	I. R. Fairman	Oct. '68
					Traced	R. Adam	Oct. '68
					Checked		
					Approved		Nov. '68



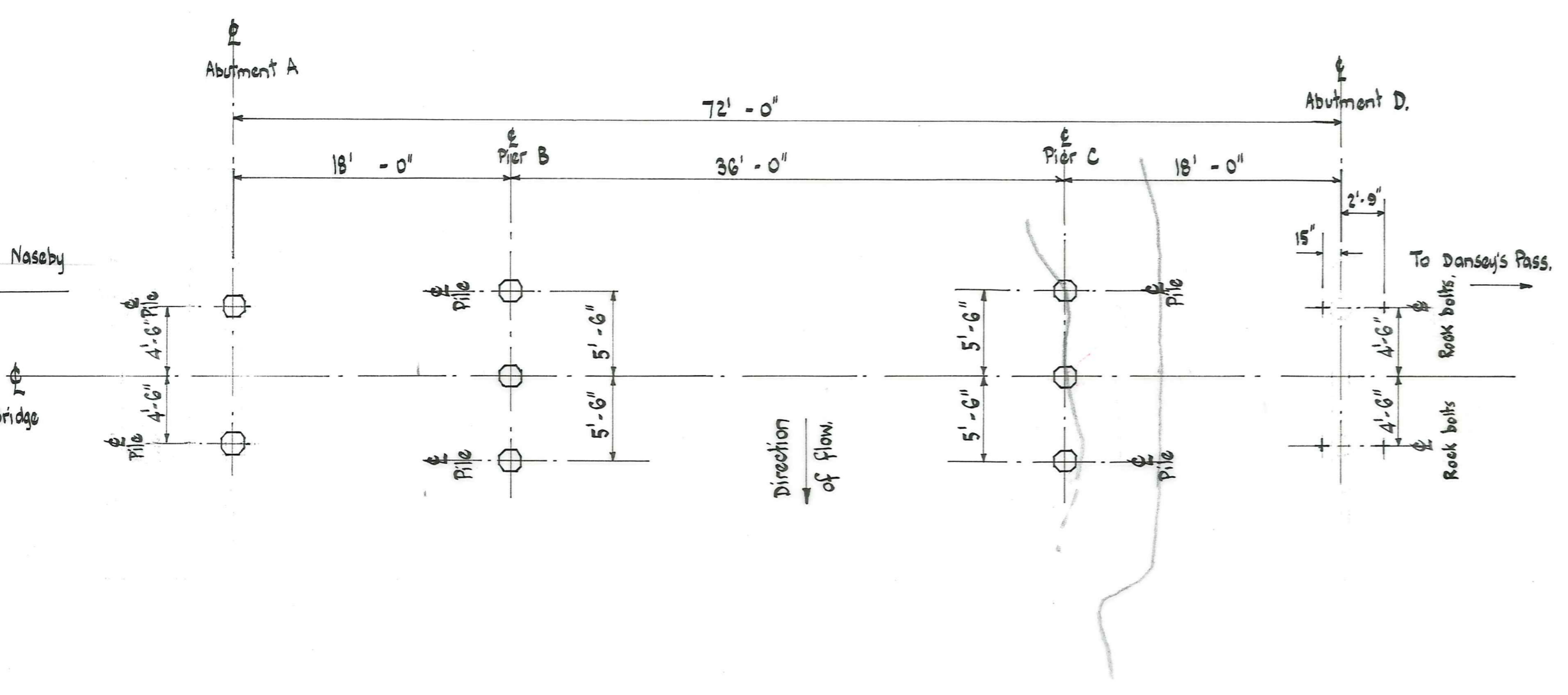
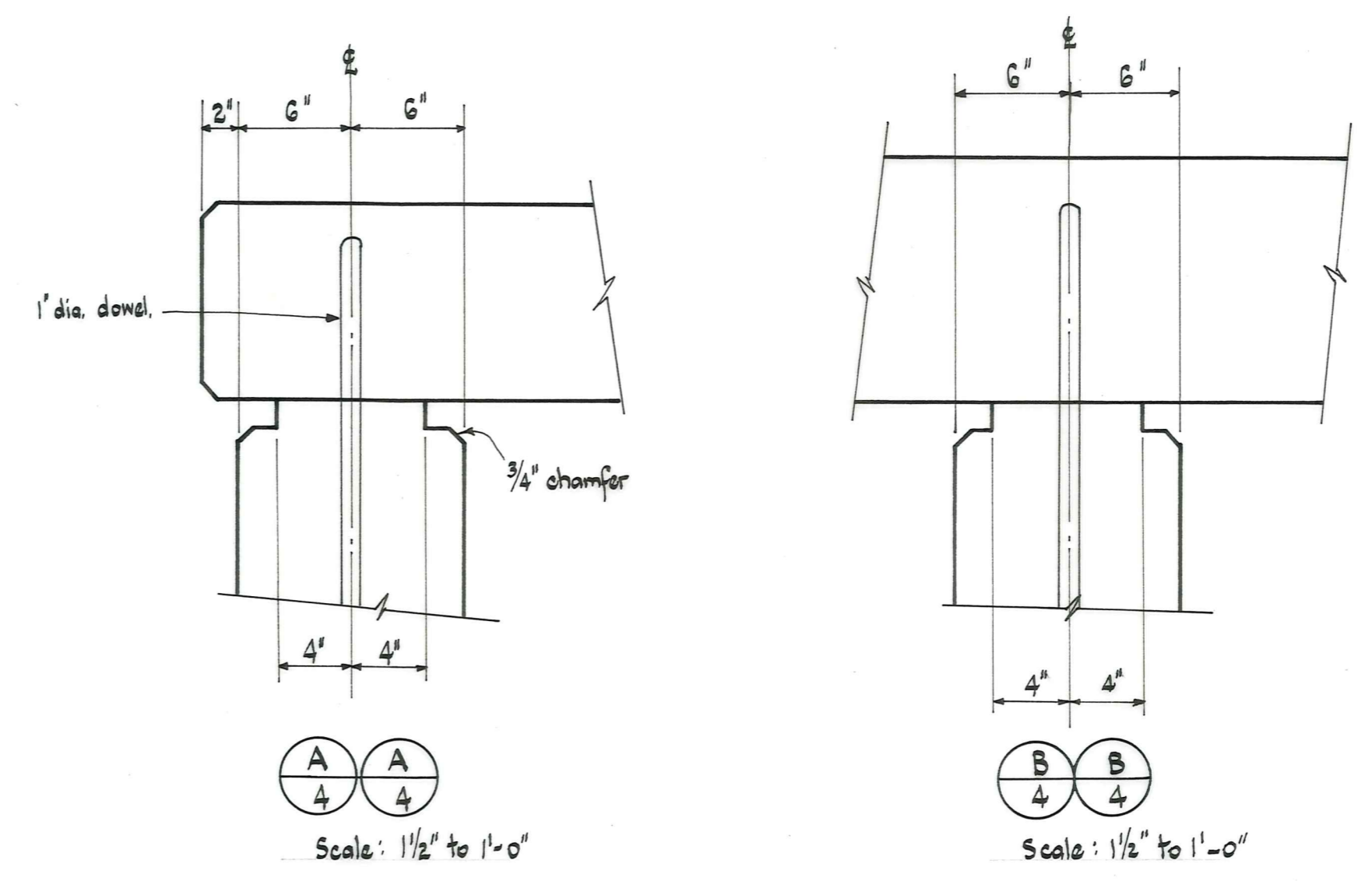
ELEVATION SHOWING REINFORCEMENT & DIMENSIONS FOR PIER C.  
Plan and Sections as for Pier B (See Sheet 5)  
Scale: 1/2" to 1'-0"



CROSS SECTION THROUGH DECK AT ABUTMENT SHOWING POSITION OF DOWELS  
Scale 1/2" to 1'-0"

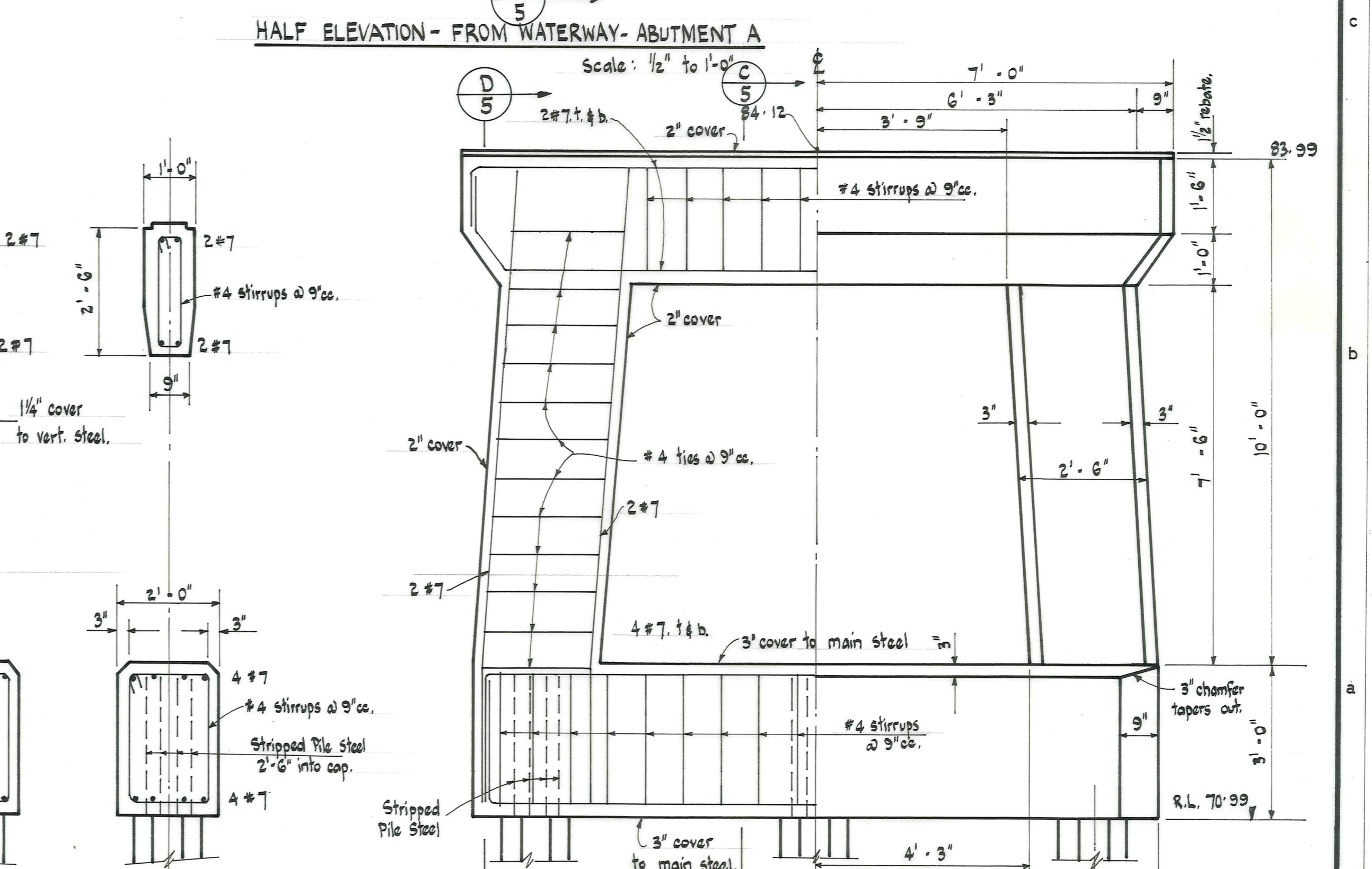
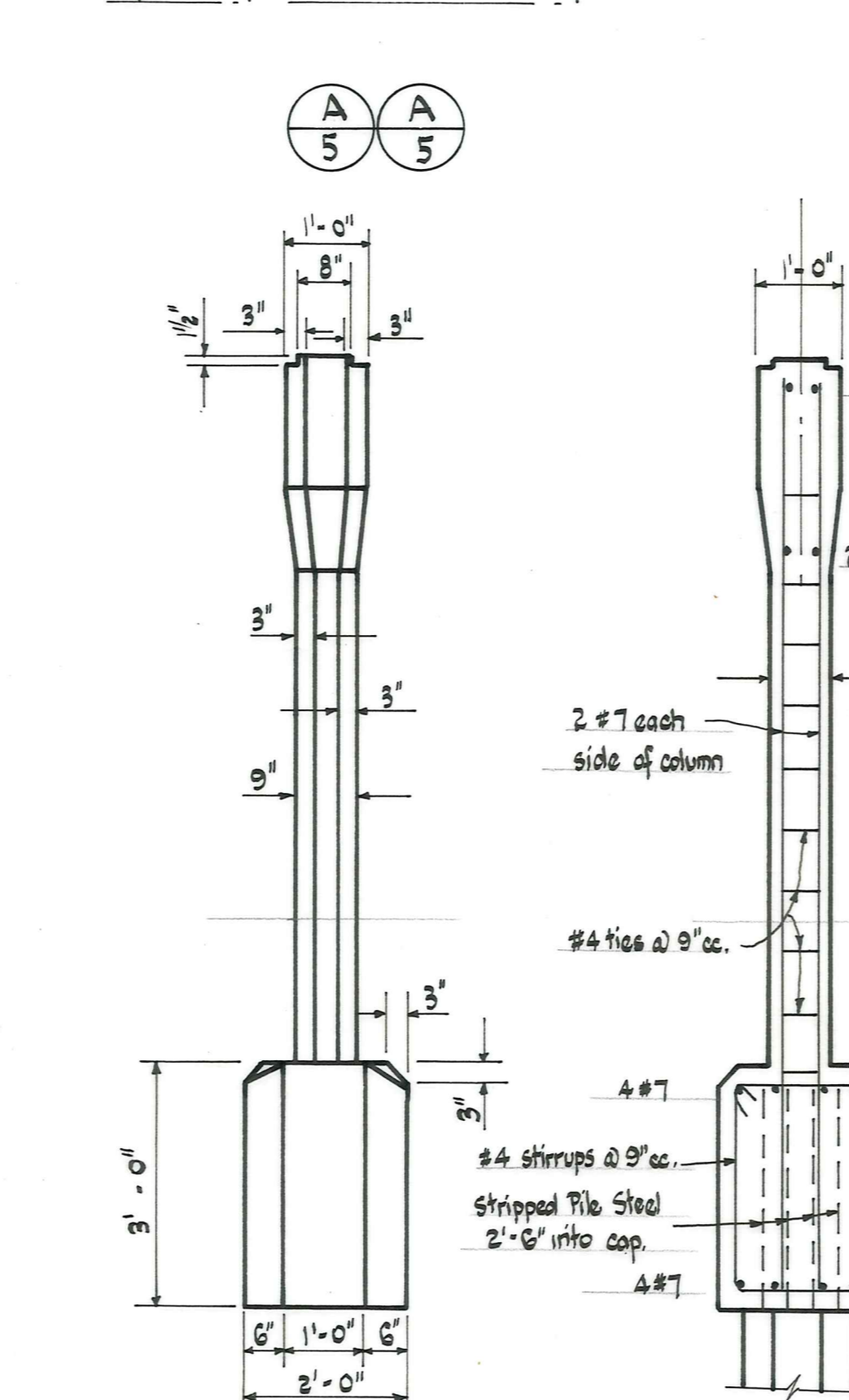
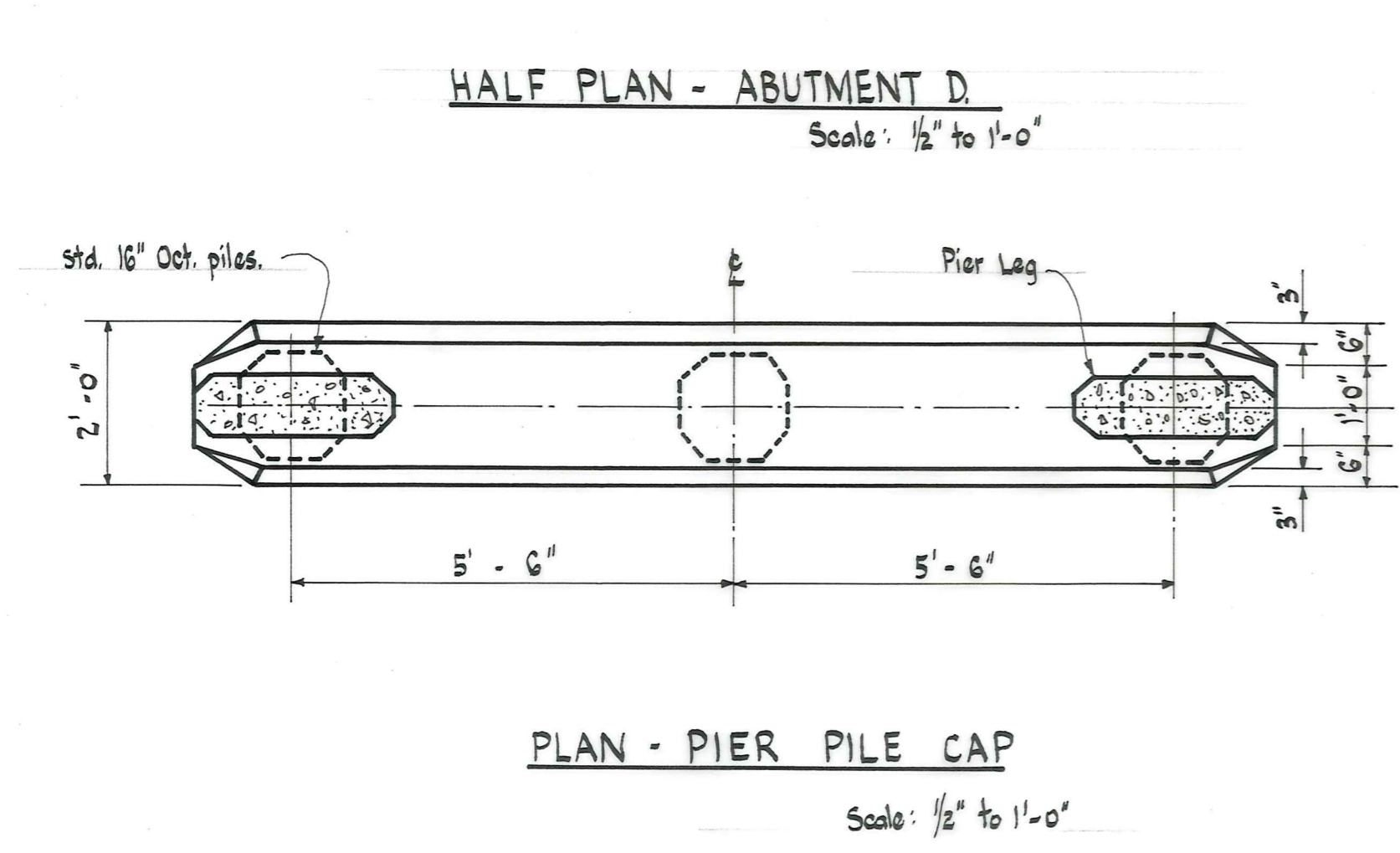
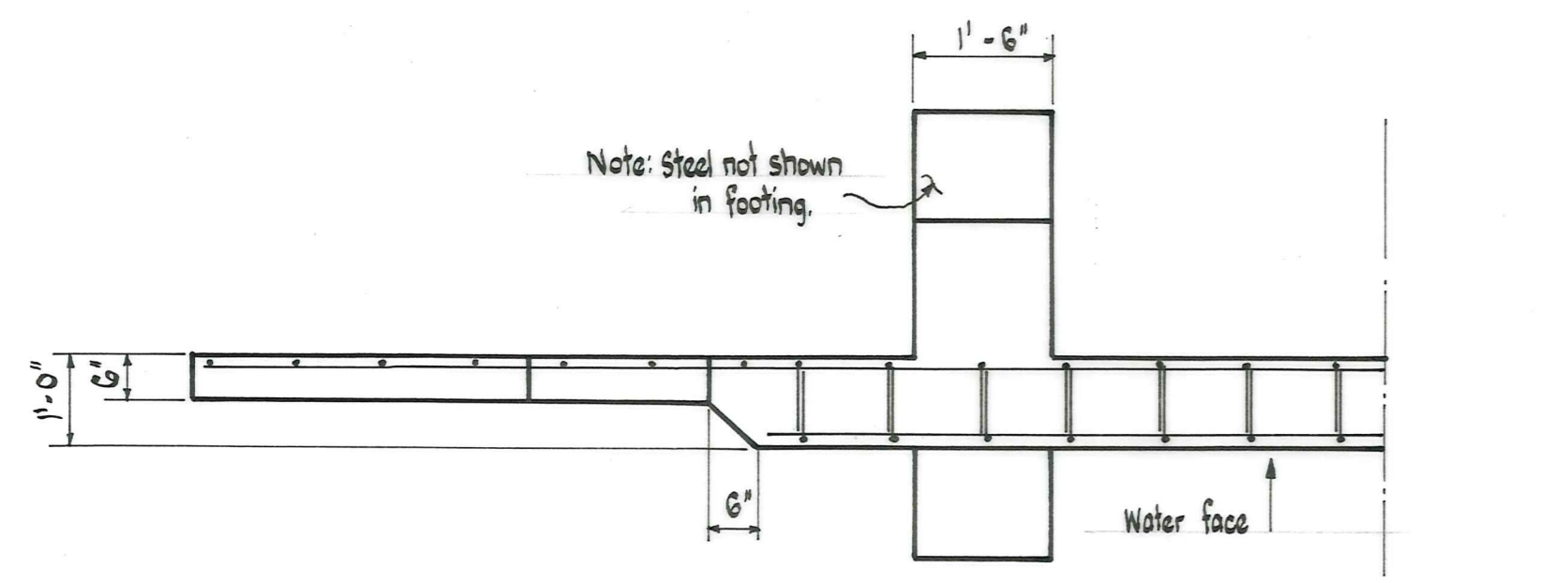
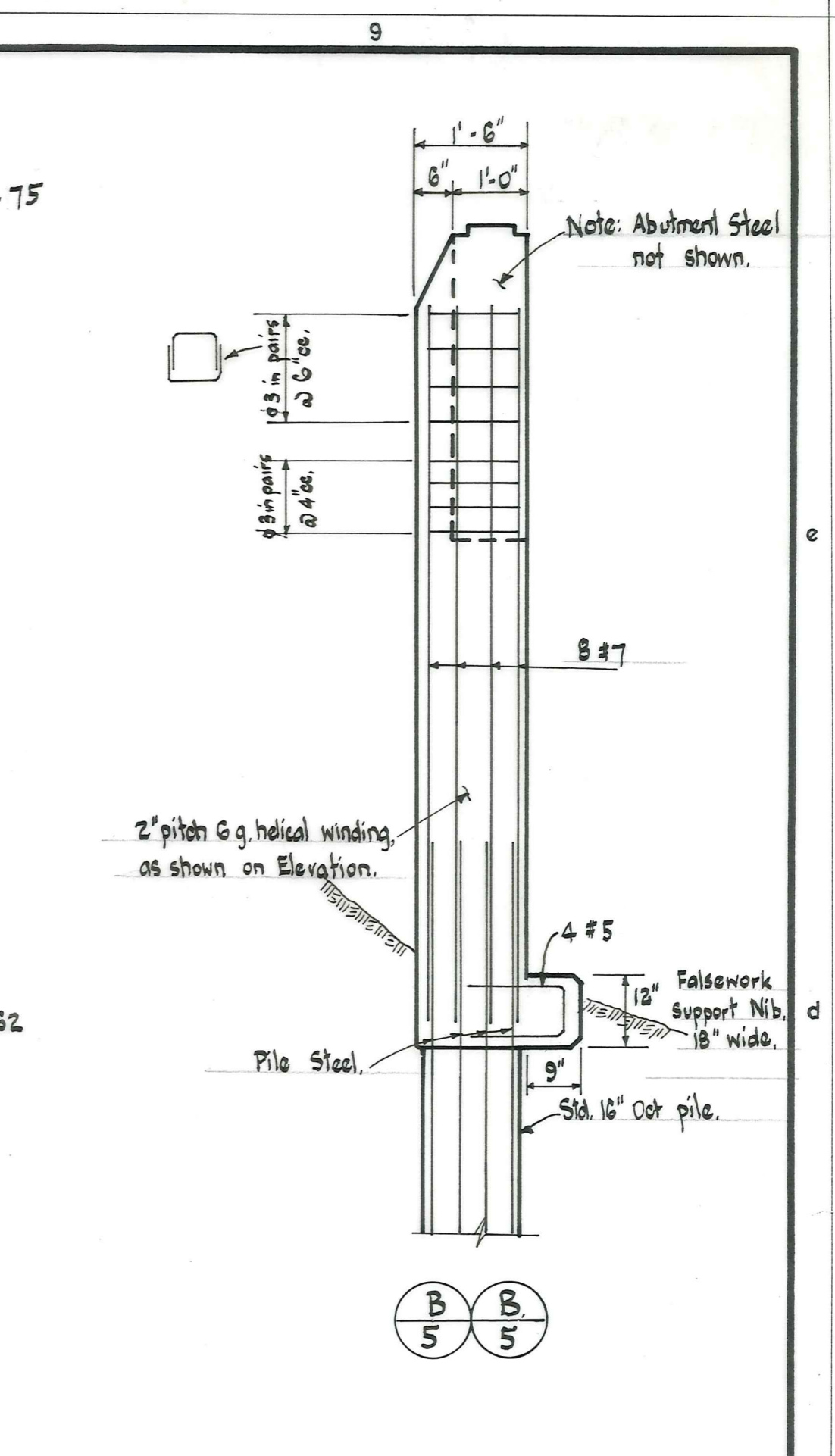
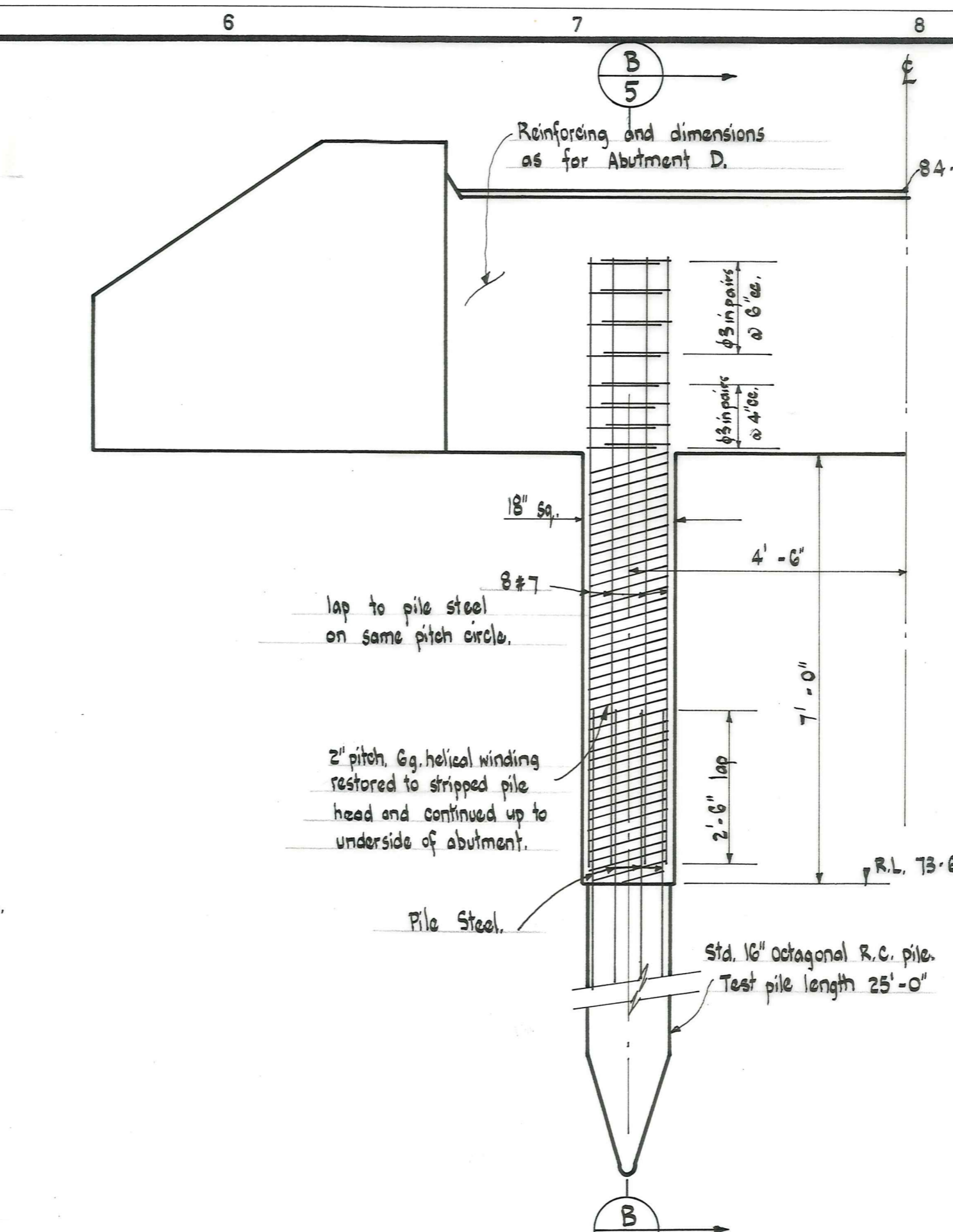
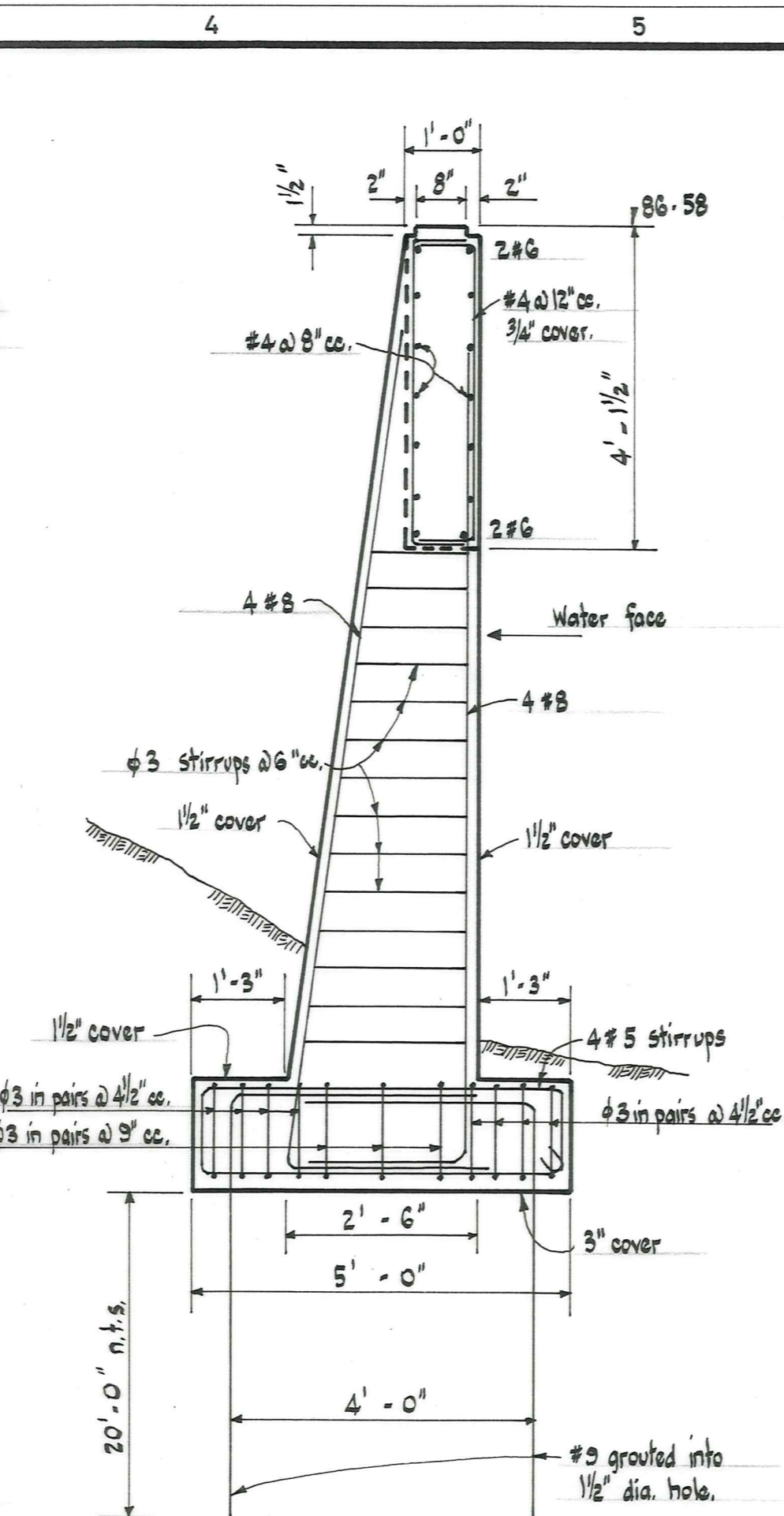
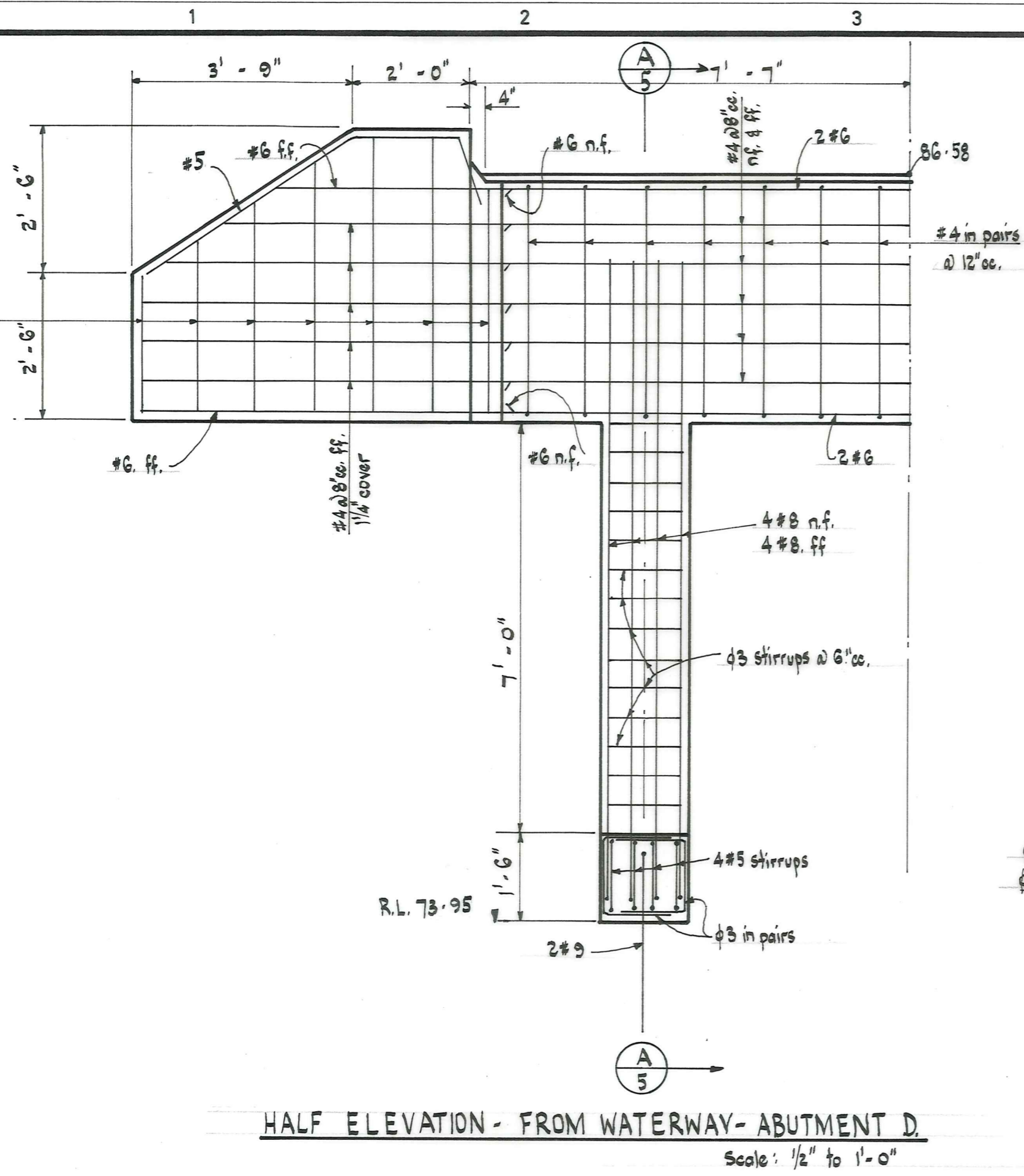


CROSS SECTION THROUGH DECK AT PIERS SHOWING POSITION OF DOWELS  
Scale: 1/2" to 1'-0"

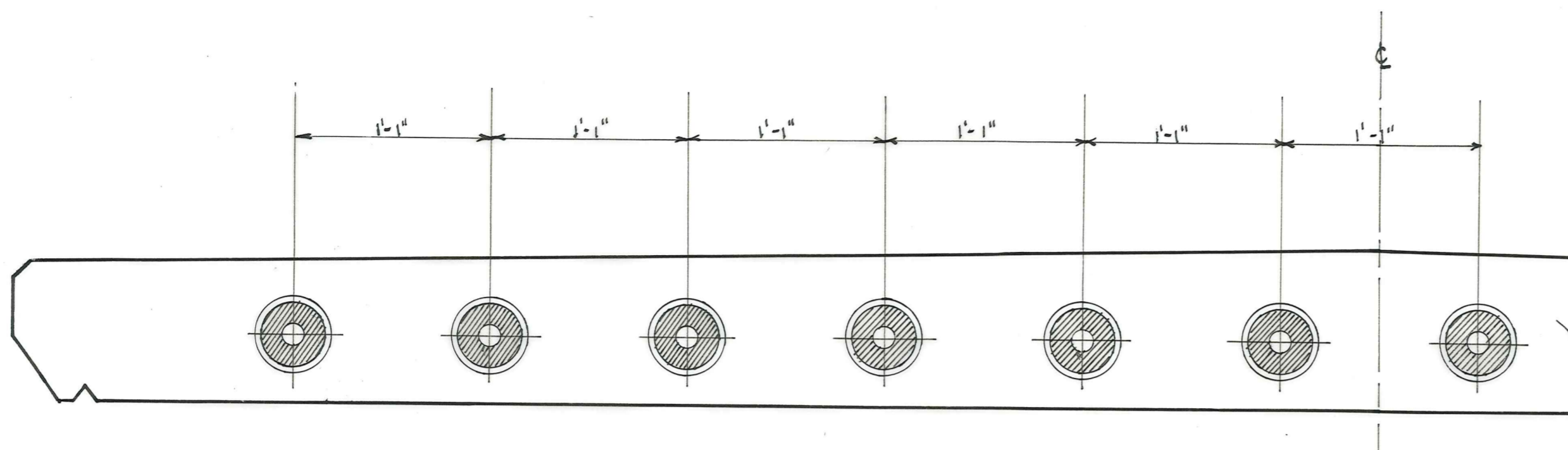


PLAN - SETTING OUT DIAGRAM  
Scale: 1/8" to 1'-0"

AMENDMENTS					NAME	DATE
No.	By	Date	Description	Apprd.		
					D Jack	Jan '69
					R Adam	Oct '68
					I B Pairman	" "
					R Adam	" "
						Apr '68

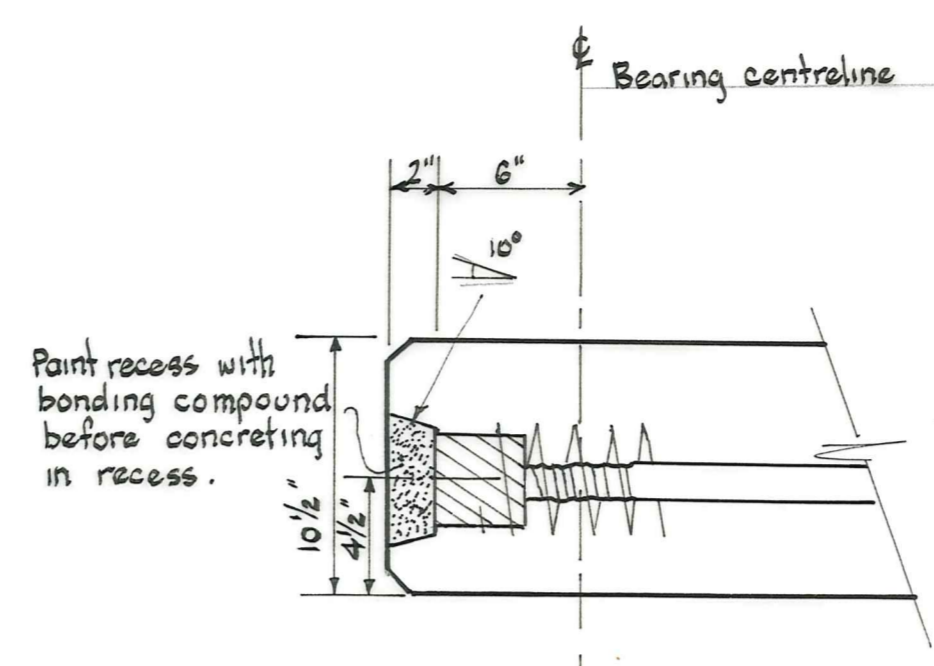


AMENDMENTS					NAME		DATE
No.	By	Date	Description	Apprd.	Surveyed	Drawn	
					D. Jack.	R. Adam	Oct '68
						J. R. Fairman	
						R. Adam	
							4-6-67



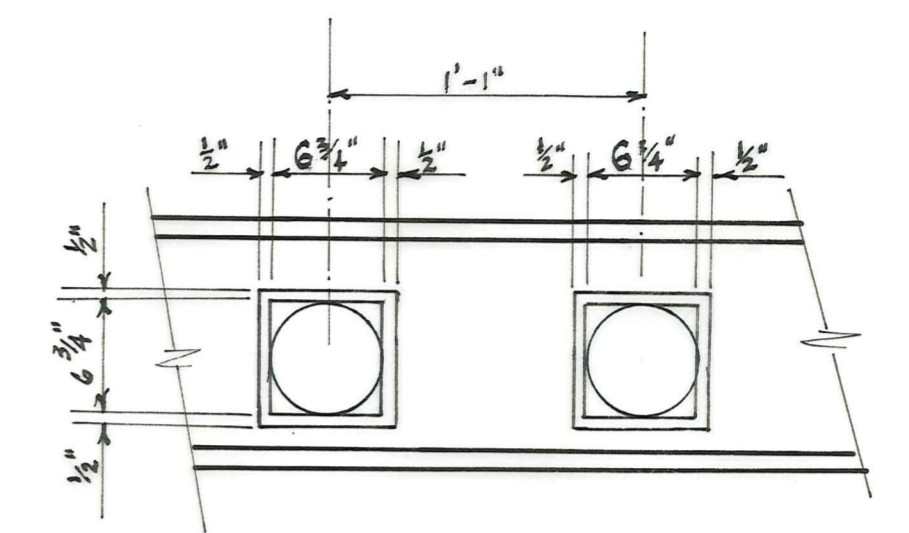
CROSS SECTION THROUGH DECK SHOWING POSITION OF FREYSSINET CABLE ANCHORAGES

Scale 1/2" to 1'-0"



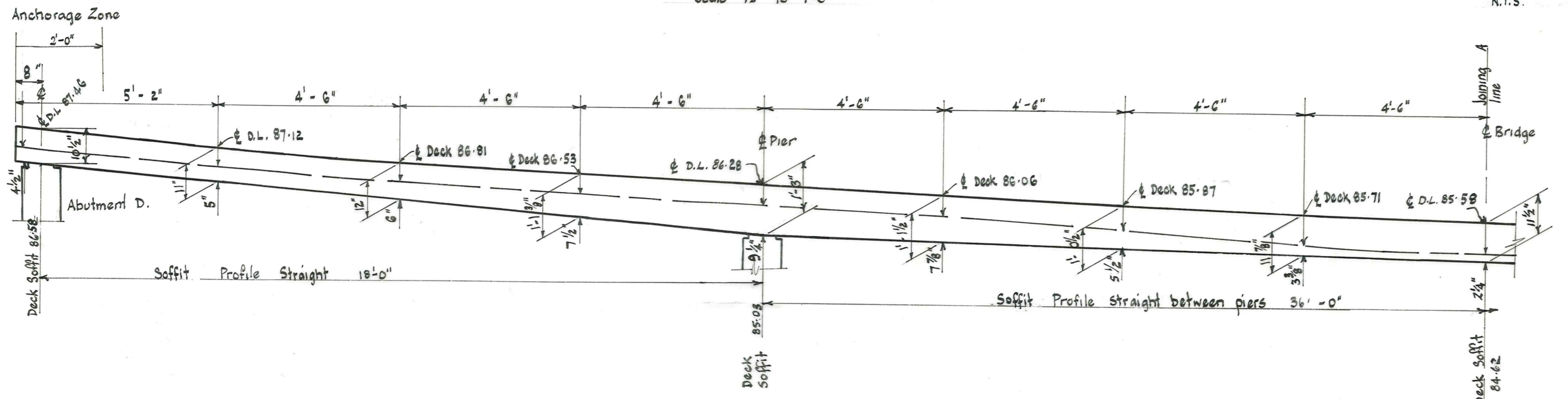
FREYSSINET ANCHORAGE

N.T.S.



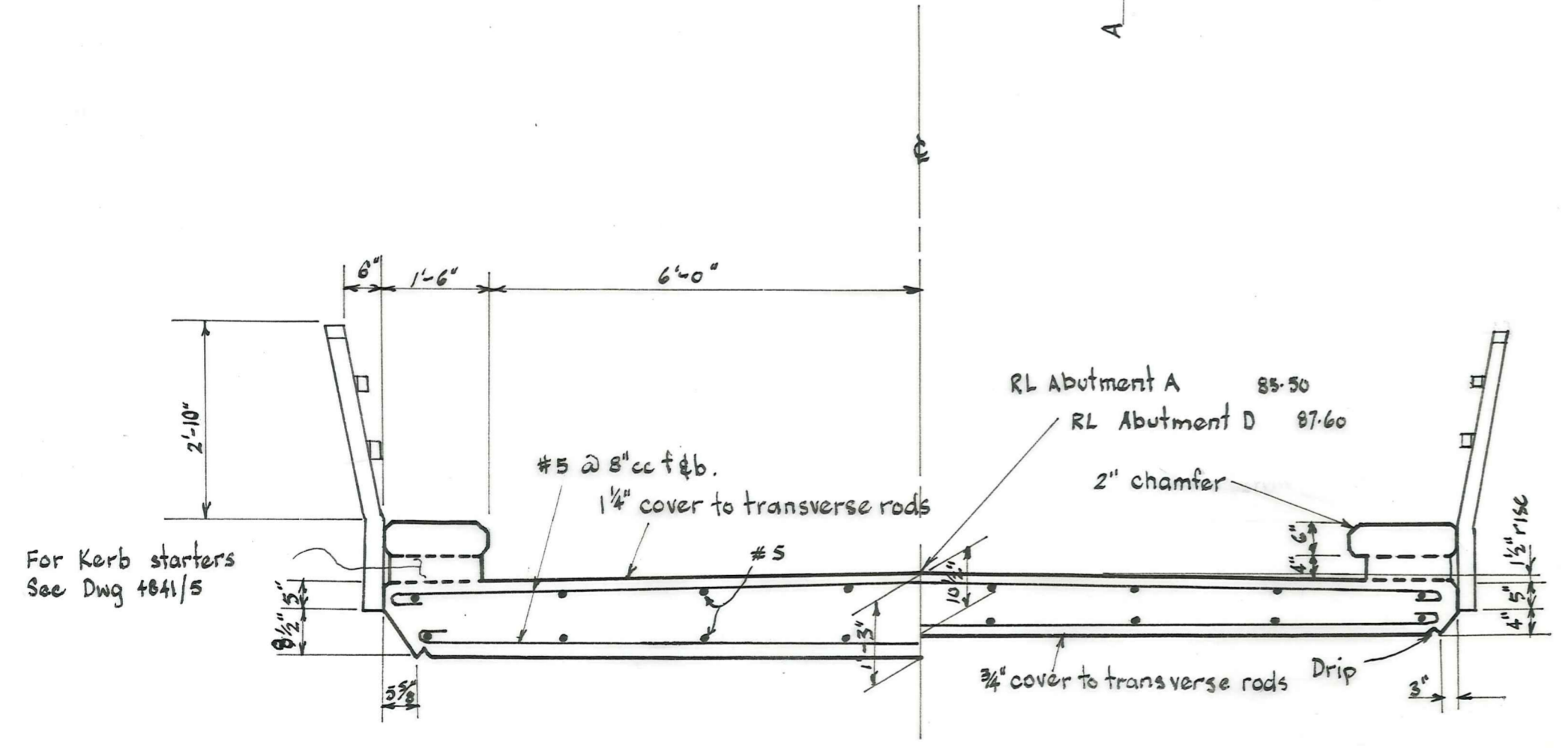
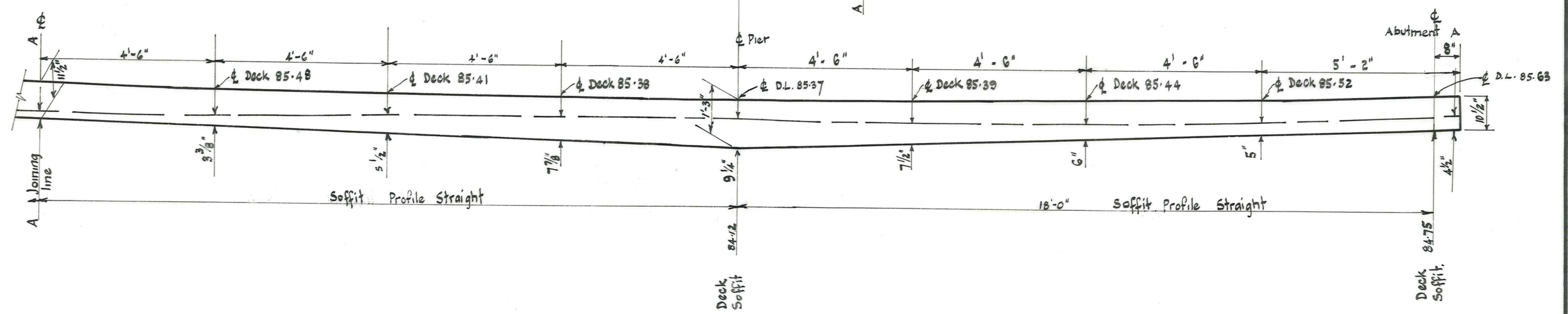
END ELEVATION OF FREYSSINET ANCHORAGE RECESSES

N.T.S.



ELEVATION SHOWING PROFILE OF CABLES

Scale 1/2" to 1'-0"



HALF CROSS SECTIONS THROUGH DECK AT PIERS AND ABUTMENTS

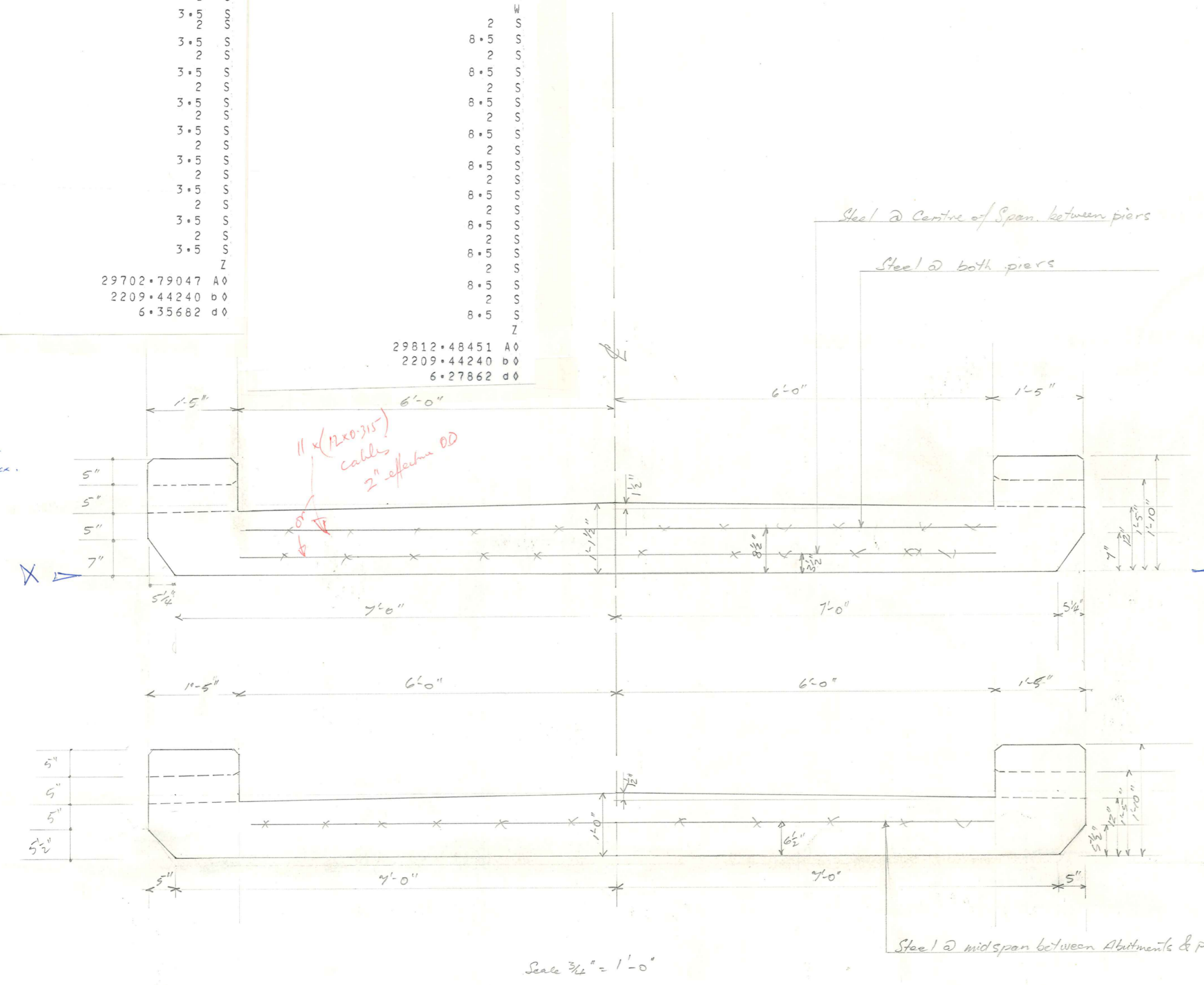
Scale 1/2" to 1'-0"

AMENDMENTS					NAME	DATE
No.	By	Date	Description	Apprd.		
					Surveyed	
					Drawn	R Adam Oct 68
					Calculations	J R Partman Oct 68
					Traced	D J " "
					Checked	" "
					Approved	" " Nov 68

144	S	144	S	144	S
1.5	S	1.5	S	1.5	S
10.5	S	12	S	12	S
2	S	2	S	178	S
178	S	178	S	12	S
10.5	S	12	S	0	S
0	S	0	S	1	S
1	S	1	S	1	S
Z	Z	Z	Z	Z	Z
20560.64952	A0	29988.98784	A0	29988.98784	A0
1977.00000	b0	2244.00000	b0	2244.00000	b0
5.56411	e0	6.31283	e0	6.31283	e0
W	W	W	W	W	W
2	S	2	S	2	S
6.5	S	8.5	S	8.5	S
Z	Z	Z	Z	Z	Z
20557.11990	A0	29973.25359	A0	29973.25359	A0
1973.85840	b0	2240.85840	b0	2240.85840	b0
5.56262	d0	6.30976	d0	6.30976	d0
W	W	W	W	W	W
2	S	2	S	2	S
6.5	S	8.5	S	8.5	S
2	S	2	S	2	S
6.5	S	8.5	S	8.5	S
2	S	2	S	2	S
6.5	S	8.5	S	8.5	S
2	S	2	S	2	S
6.5	S	8.5	S	8.5	S
2	S	2	S	2	S
6.5	S	8.5	S	8.5	S
2	S	2	S	2	S
6.5	S	8.5	S	8.5	S
2	S	2	S	2	S
6.5	S	8.5	S	8.5	S
2	S	2	S	2	S
6.5	S	8.5	S	8.5	S
Z	Z	Z	Z	Z	Z
20521.20259	A0	29702.79047	A0	29702.79047	A0
1942.44240	b0	2209.44240	b0	2209.44240	b0
5.54746	d0	6.35682	d0	6.35682	d0
Z	Z	Z	Z	Z	Z
29812.48451	A0	2209.44240	b0	29812.48451	A0
2209.44240	b0	6.27862	d0	2209.44240	b0
6.27862	d0			6.27862	d0

Tension factors

0.2	S
0.001	S
1.00000	E0
0.25	S
0	S
9.0	S
0.98010	E0
0.25	S
0	S
9.0	S
0.9606	E0
0.25	S
0	S
9.0	S
0.9415	E0
0.25	S
0	S
9.0	S
0.9228	E0
0.9045	E0
0.8865	E0



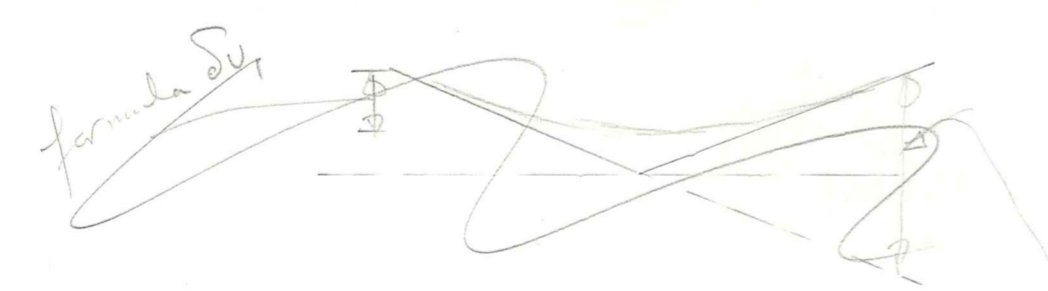
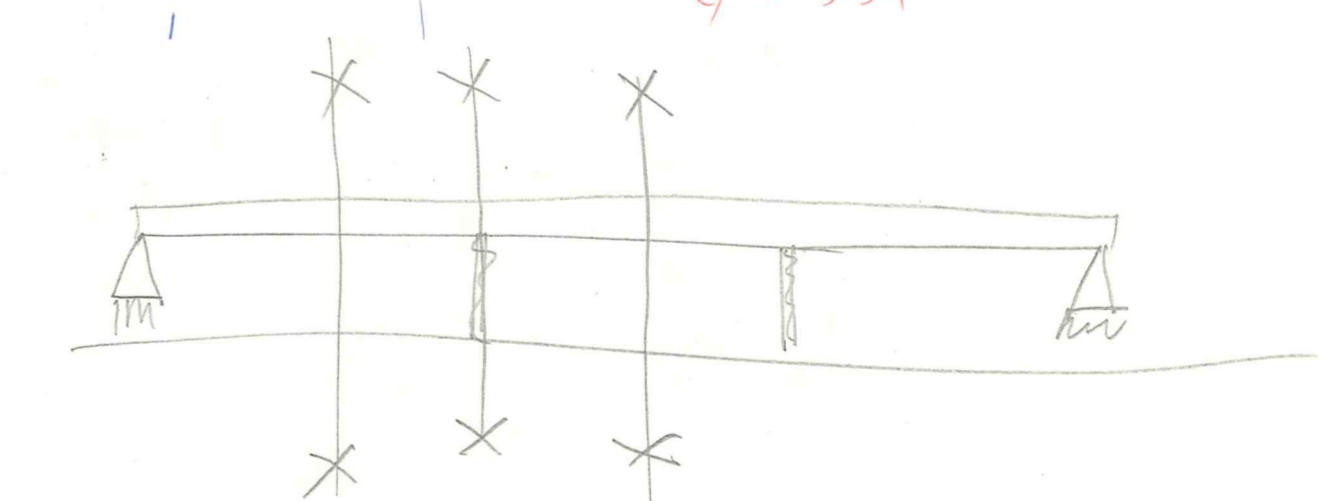
b =	144	178
d =	1.5	12
d' =	12	0
Mod =	2	1

Deduct holes	Support	Midspan
D = 2"	D = 2"	
d' = 8 1/2"	d' = 3 1/2"	
repeat 10 times (total 11 deduct holes)	deduct	
I <sub>xx</sub> = 29812	I <sub>xx</sub> = 2209	29702 m <sup>4</sup>
A = 2209	A = 2209	m <sup>2</sup>
ȳ = 6.27	ȳ = 6.85	m

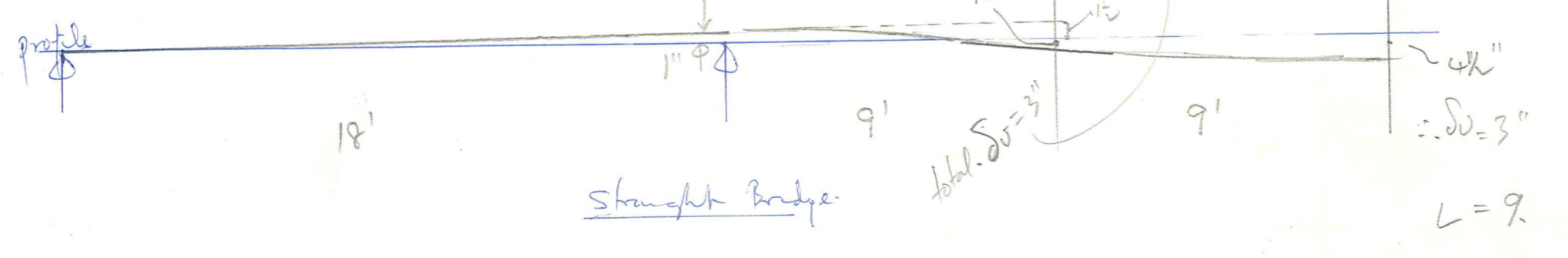
b =	144	178
d =	1.5	12
d' =	10.5	0
Mod =	2	1

Deduct holes	Midspan
D = 2"	I <sub>xx</sub> = 20521 m <sup>4</sup>
d' = 6 1/2"	A = 1942 m <sup>2</sup>
	ȳ = 5.54 m

Note: These values ignore the 5'x7" app. changes. (check if forgot!)



4841  
6/83



Curved Bridge

4841  
6/83