

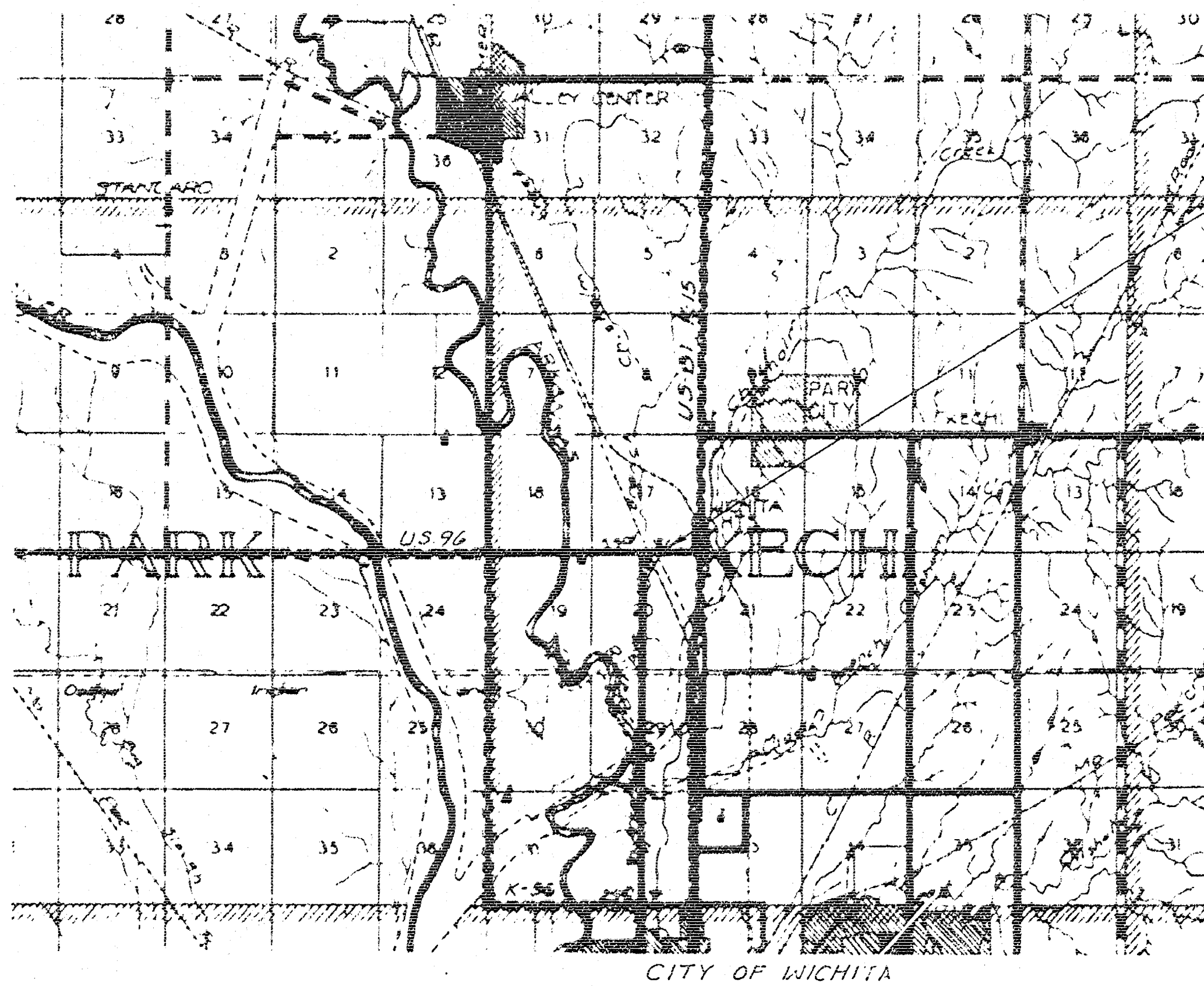
STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		1957	1	6



INDEX OF SHEETS

SHEET NO. 1	TITLE SHEET
2	CONSTRUCTION LAYOUT
3	REINFORCING DETAIL
4	ABUTMENT & PIER DETAIL
5	AUXILIARY DETAIL
6	PILING DETAIL

BRIDGE ONLY
COUNTY BRIDGE NO. 606-26-3061



CONSTRUCT BRIDGE NO. 606-26-3061
CONTINUOUS CONCRETE GIRDER
32' - 3 @ 40' - 32'

TRAFFIC COUNT - 2950 CARS PER DAY.

CONVENTIONAL SIGNS

COUNTY LINE	-----
SECTION LINE	-----
WIRE FENCE	-----
HEDGE ROW	-----
RAILROADS	-----
SURVEY LINE	-----
RIGHT OF WAY	-----
TELEPHONE POLE	-----
POWER POLE	-----
TRAVELED WAY	-----

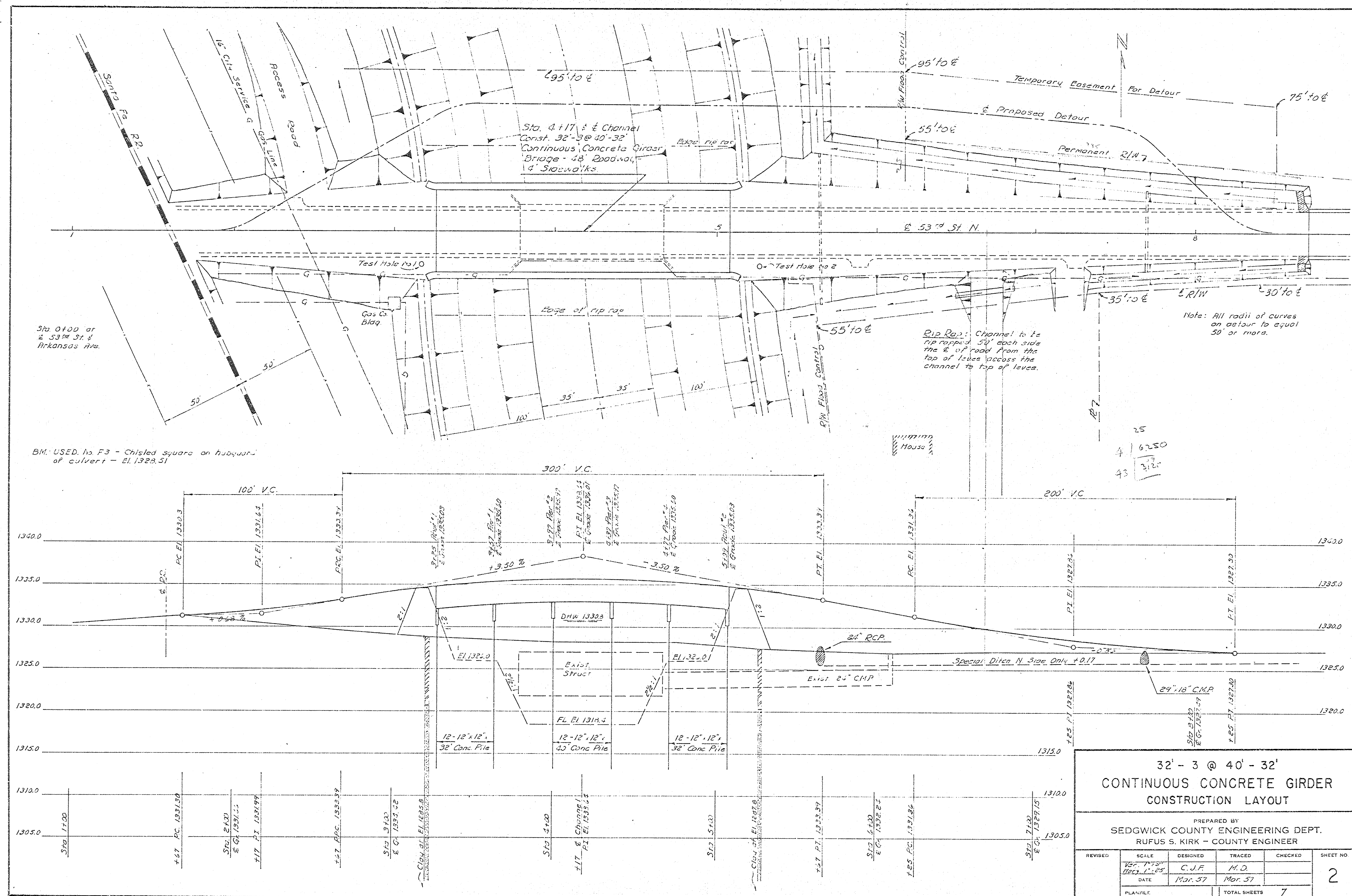
NET LENGTH OF PROJECT	186	FT.	.035	MILES
NET LENGTH OF BRIDGES	186	FT.		MILES
NET LENGTH OF ROAD		FT.		MILES
EXCEPTIONS		FT.		MILES
ADDITIONS		FT.		MILES
GROSS LENGTH OF PROJECT		FT.		MILES

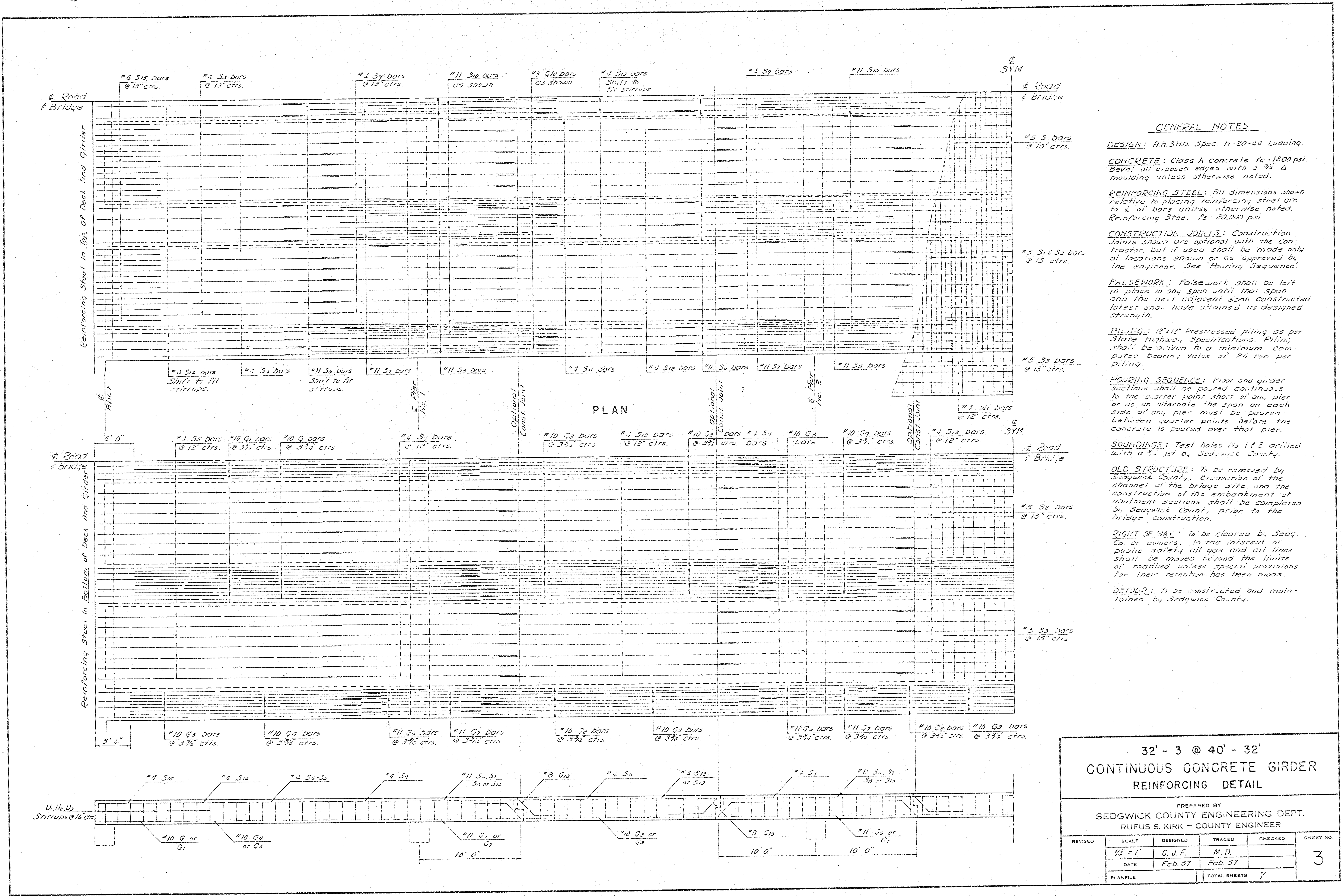
PLANS PREPARED BY	SEDGWICK COUNTY ENGR'G. DEPT.
DATE	MARCH 1957

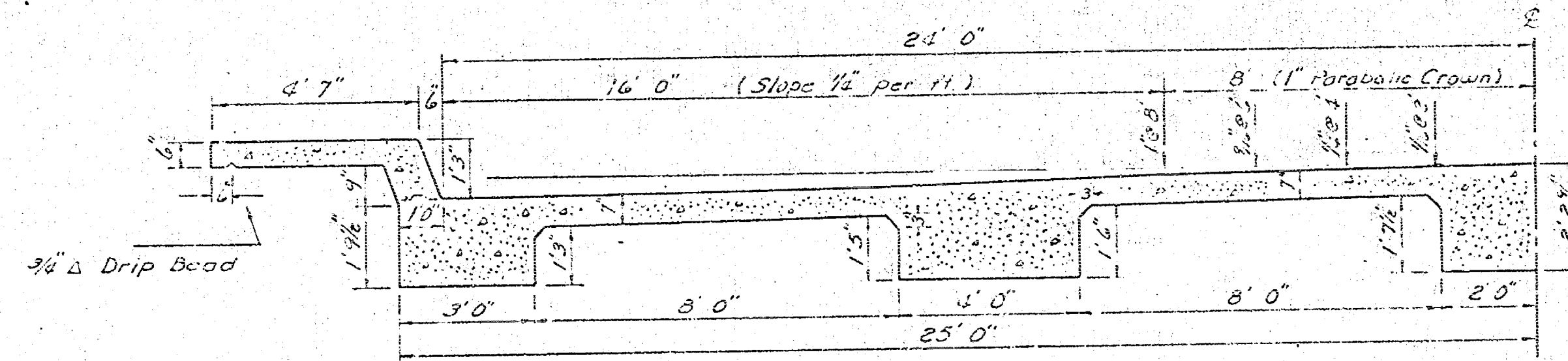
APPROVED	DATE
<i>Demon E. Reed</i>	MARCH 57
CHAIRMAN - (acting in absence of chairman)	
BOARD OF COUNTY COMMISSIONERS	

APPROVED	
<i>[Signature]</i>	
COUNTY ENGINEER	
DATE	MARCH 1957
APPROVED	DATE

Received 3/19/57





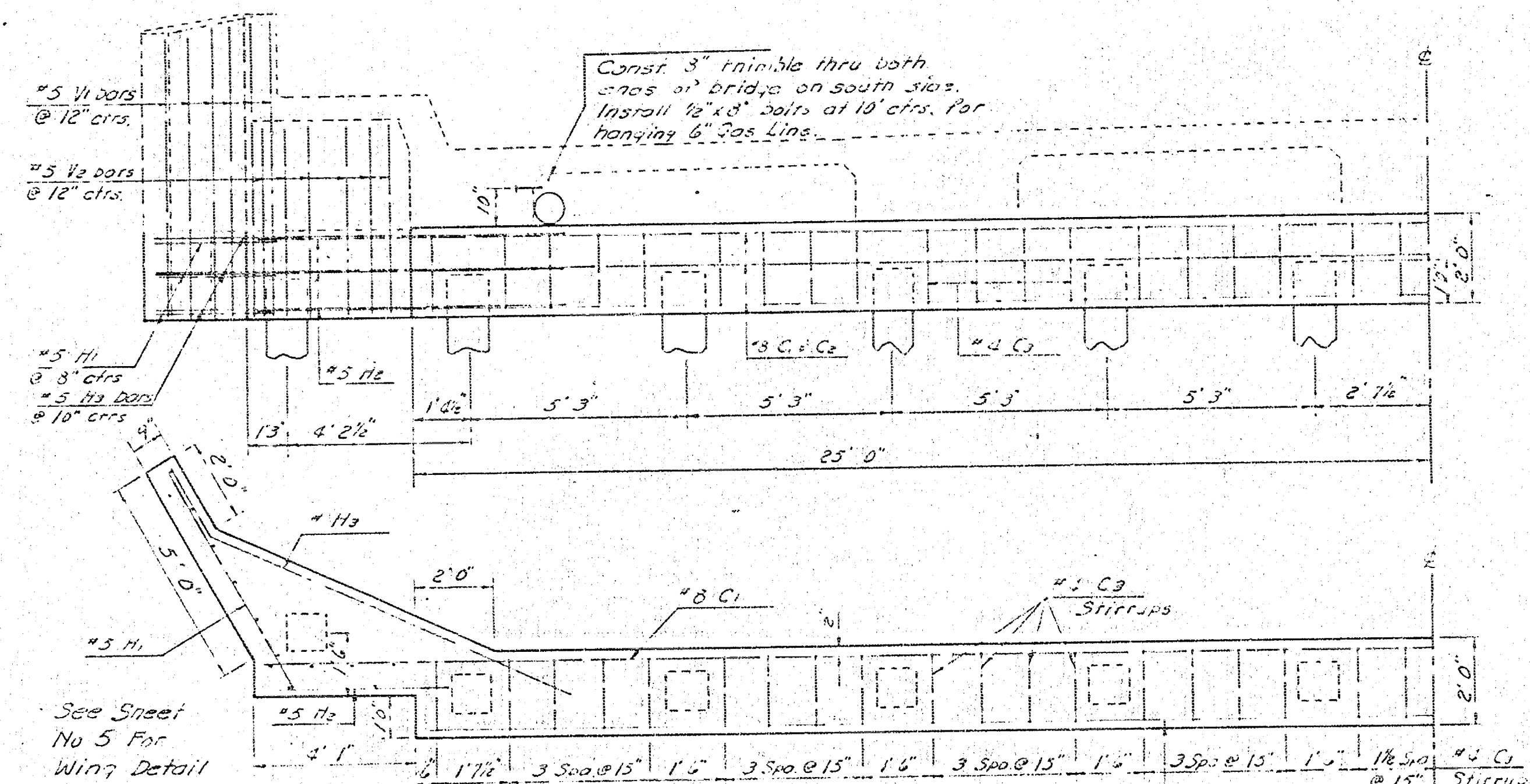


TYPICAL HALF SECTION

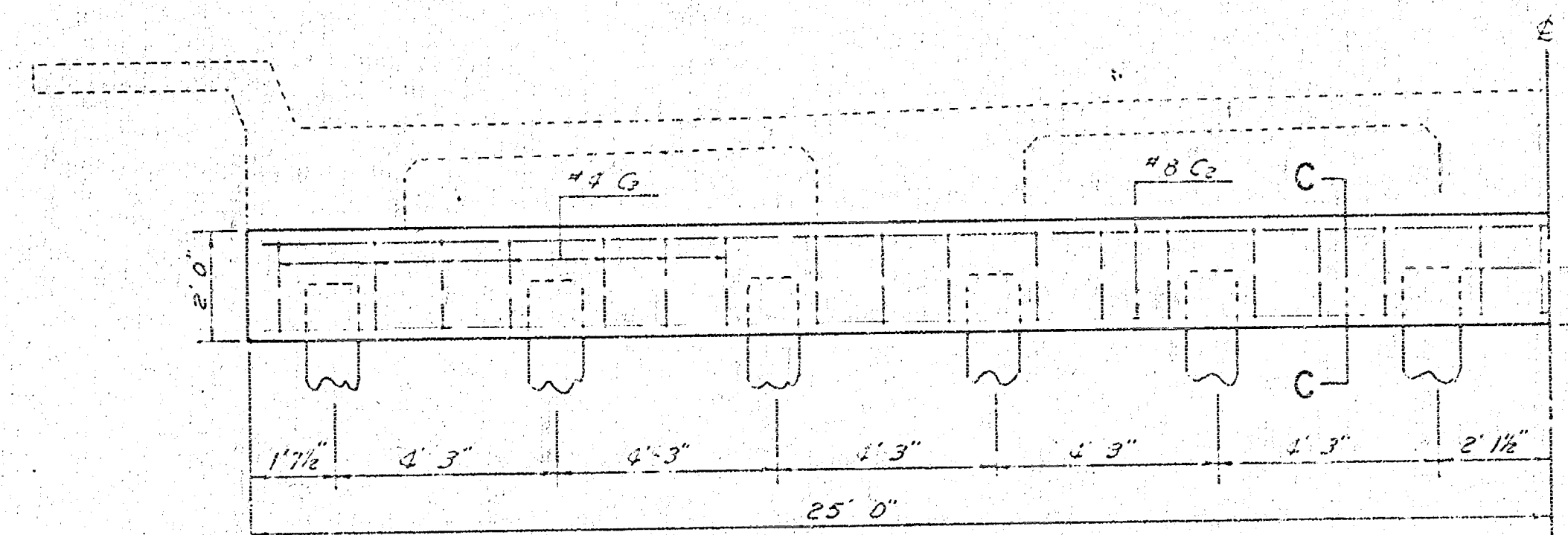
CONTRACTION JOINT: To be constructed up curb and across sidewalk of each pier.

SPLICES: All splices in bottom of girders are to be made with one bar on top of the other.

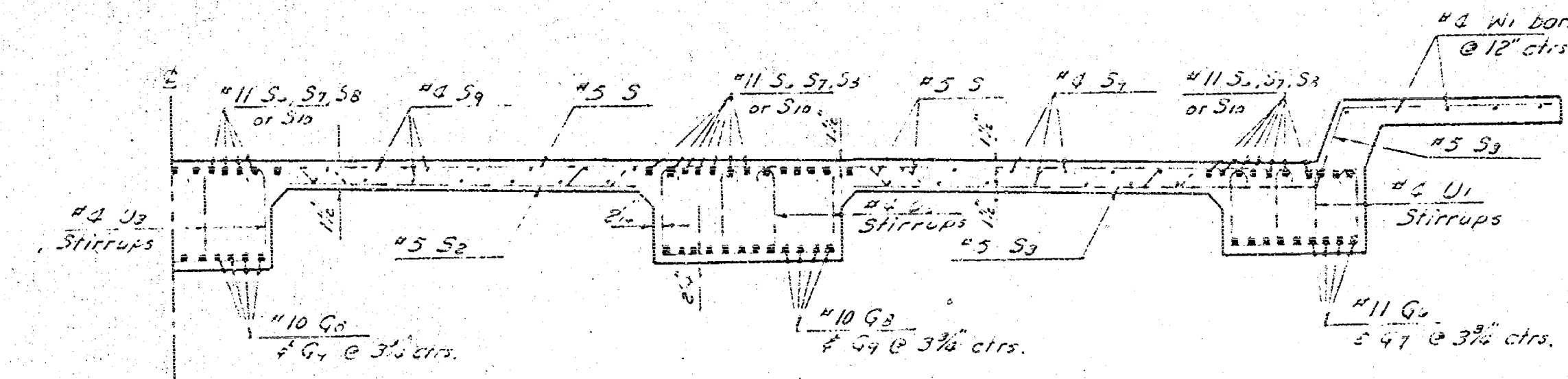
PIPE LINE: The Gas Service Co. will furnish two 8" thimbles and the necessary bolts for the pipe line. Pipe to be installed later by Gas Co.



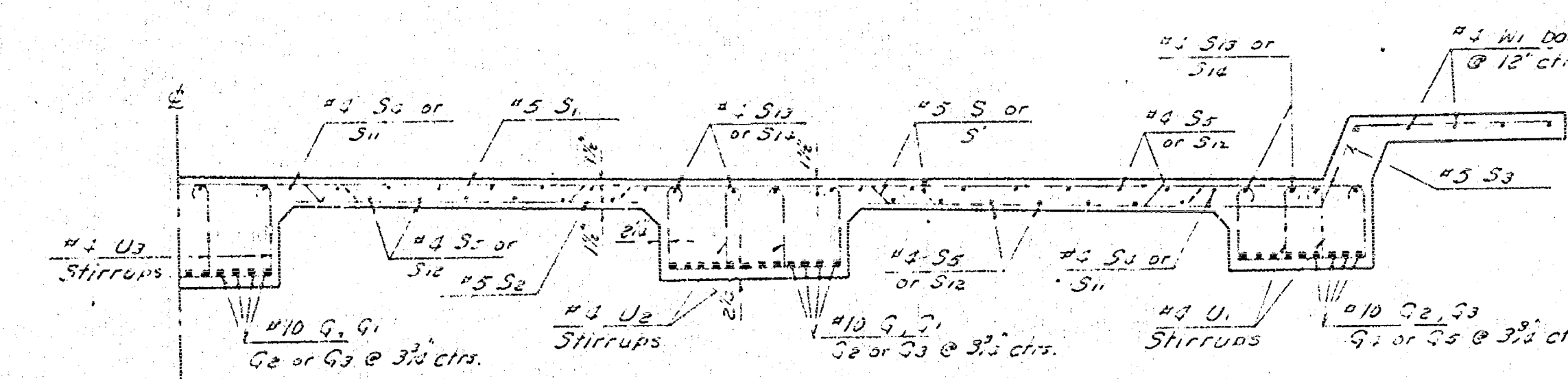
HALF ABUTMENT SECTION



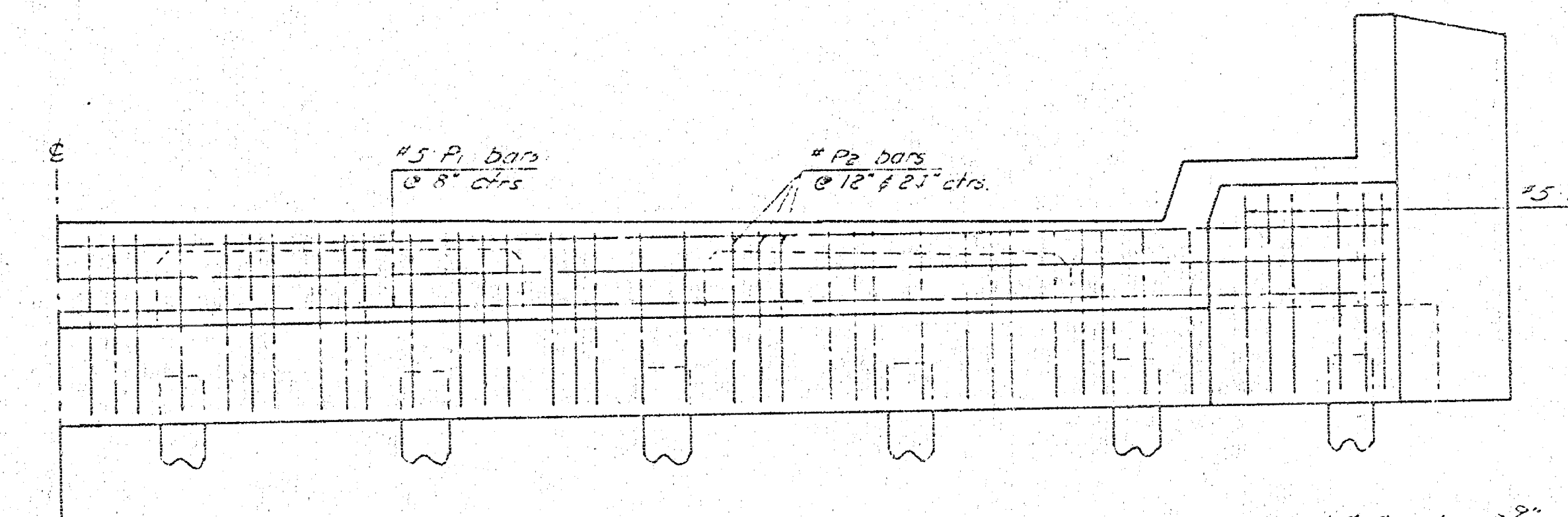
HALF PIER SECTION



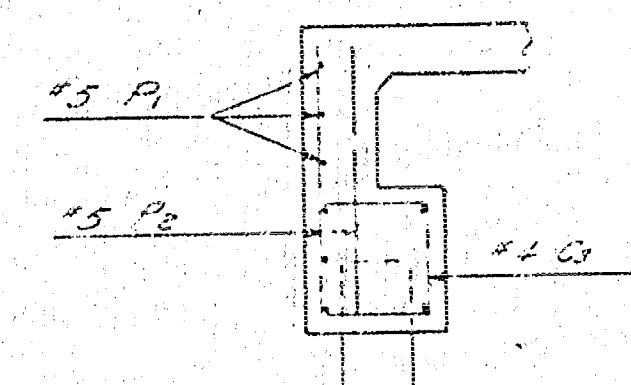
HALF SECTION AT PIER



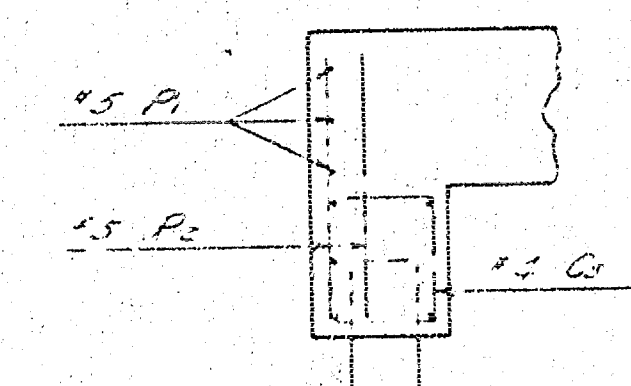
HALF SECTION AT MID-SPAN



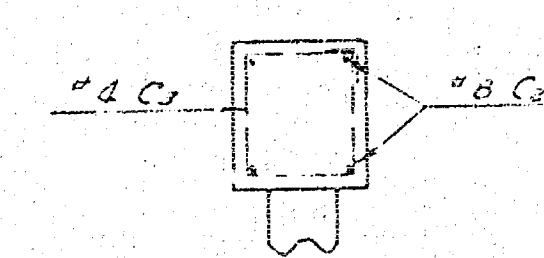
END SECTION



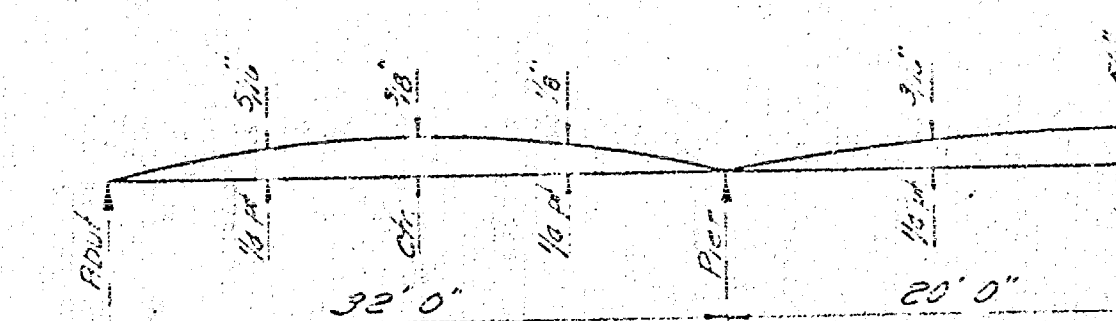
SECTION A A



SECTION B B

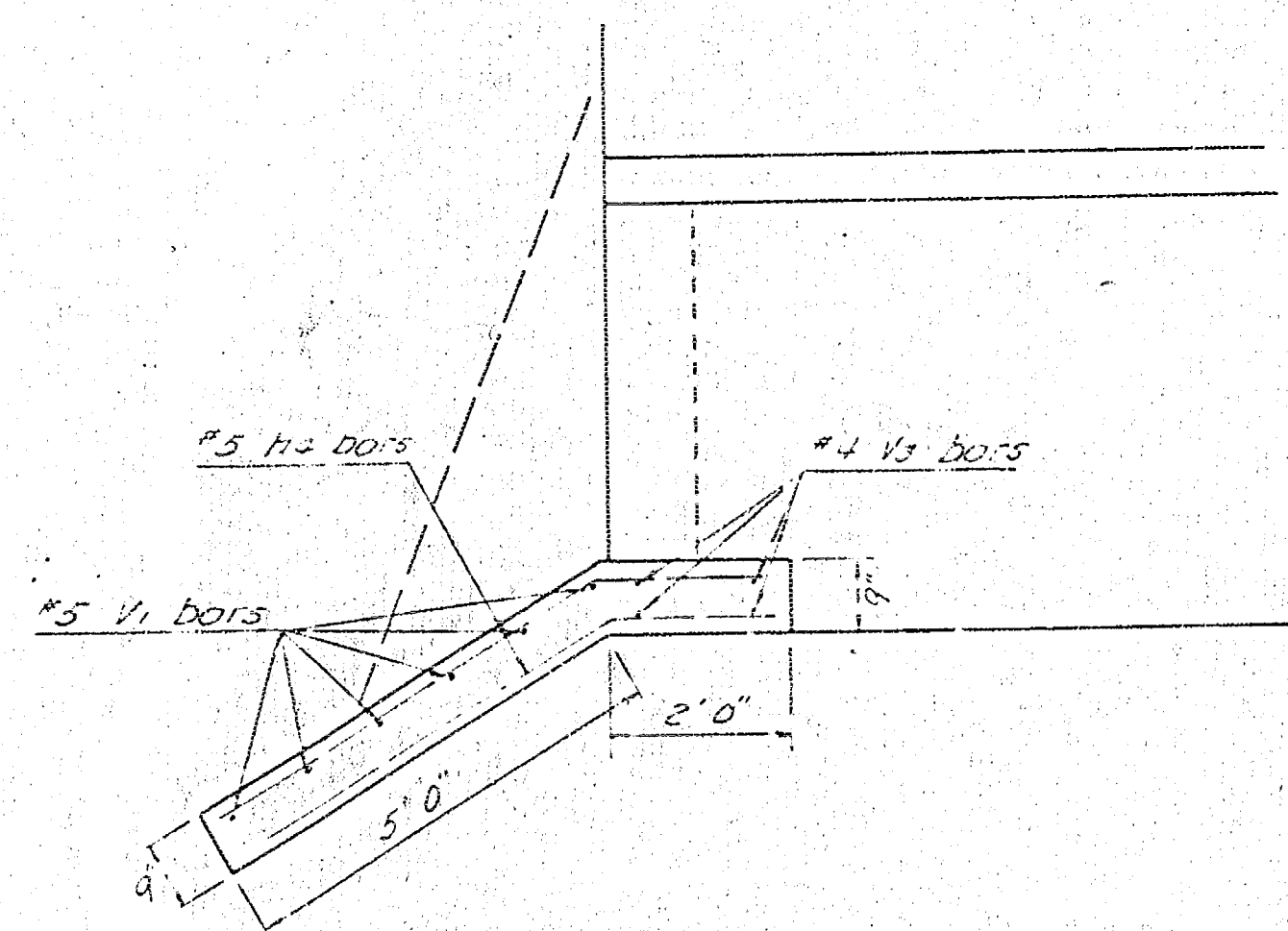
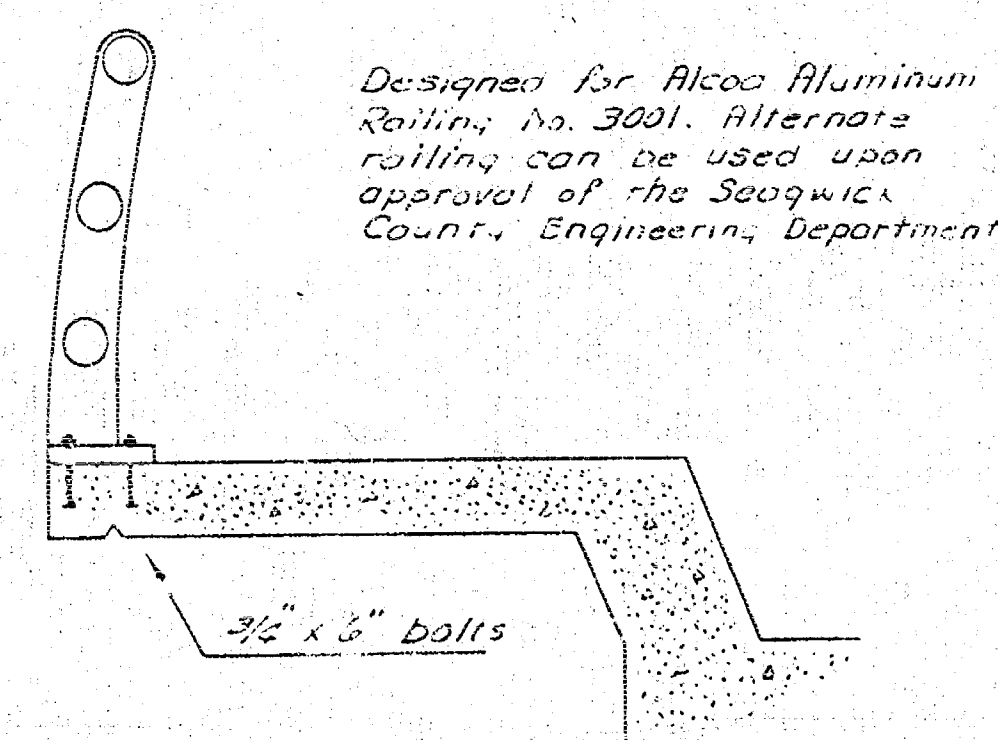


SECTION C C



CAMBER DIAGRAM

32' - 3 @ 40' - 32'				
CONTINUOUS CONCRETE GIRDER				
ABUTMENT & PIER DETAIL				
PREPARED BY SEDGWICK COUNTY ENGINEERING DEPT. RUFUS S. KIRK - COUNTY ENGINEER				
REVISED	SCALE	DESIGNED	TRACED	CHECKED
	3/8" = 1'	C. J. F.	M. D.	
	DATE	FEB. 37	FEB. 37	
	PLANFILE		TOTAL SHEETS	7
				SHEET NO 4



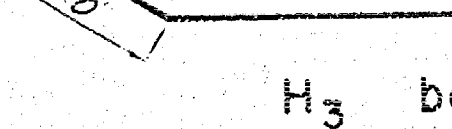
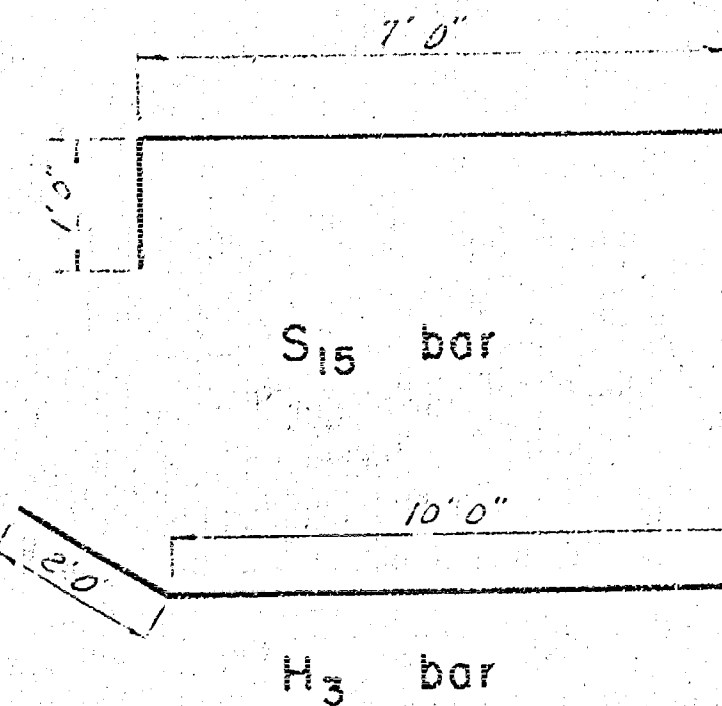
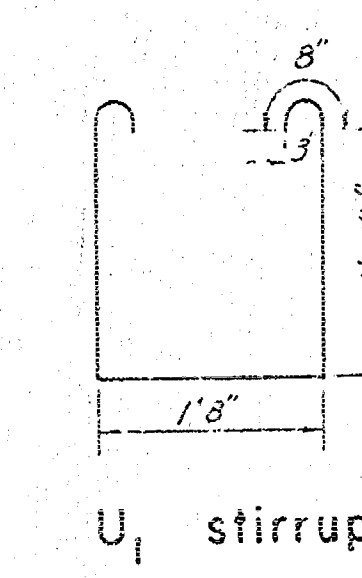
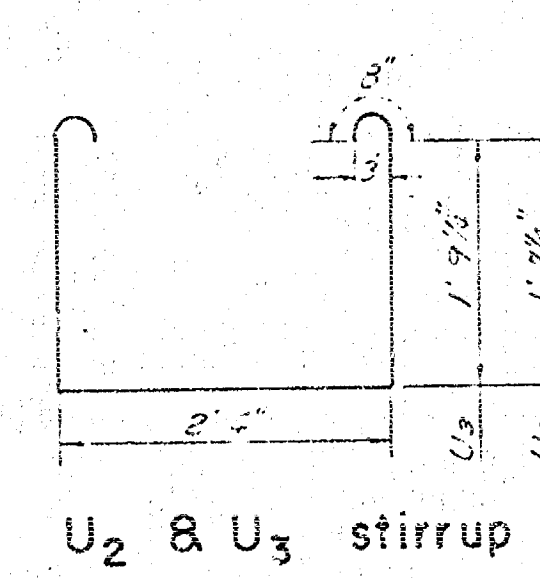
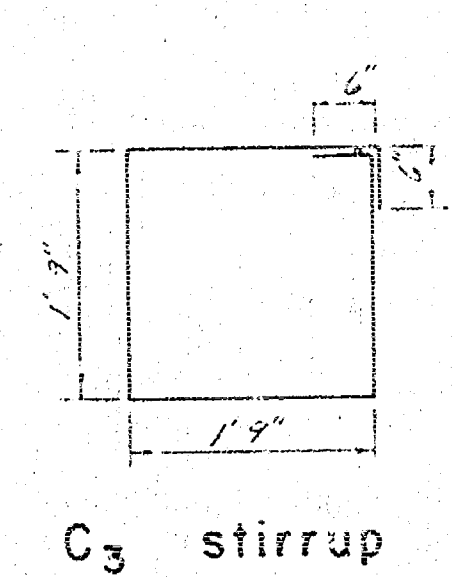
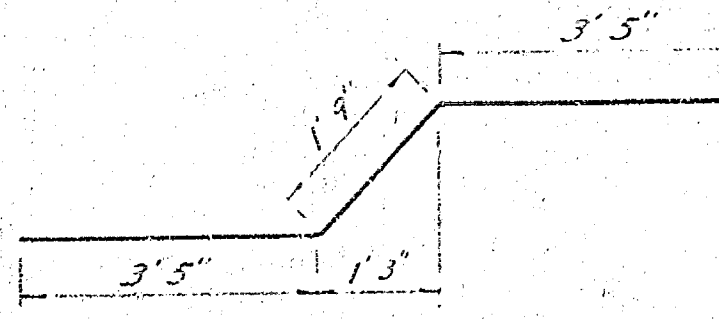
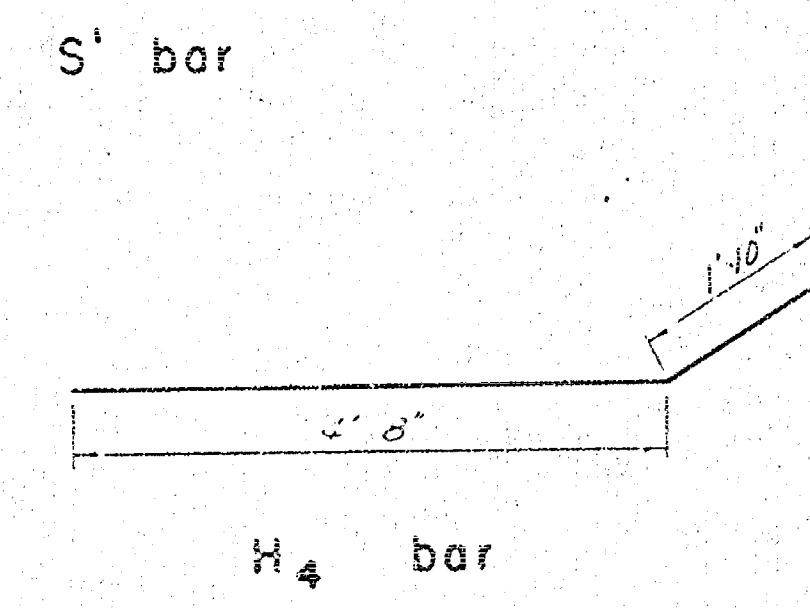
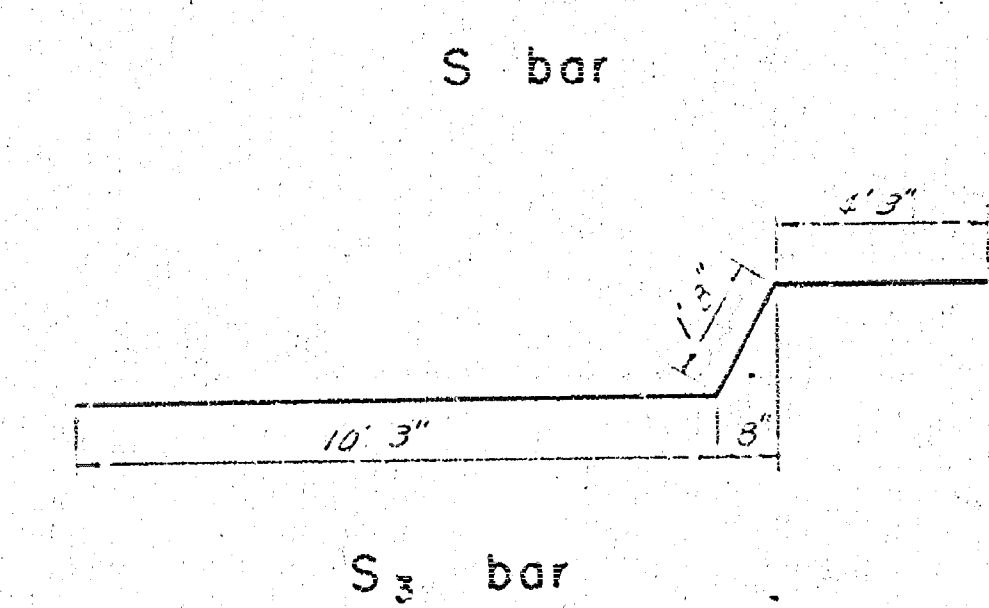
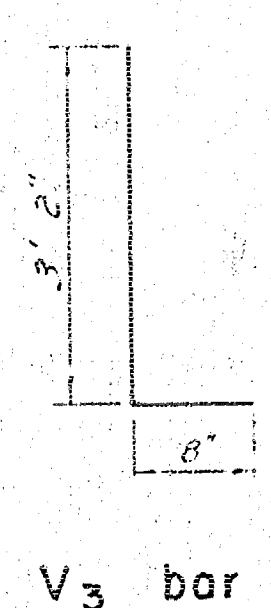
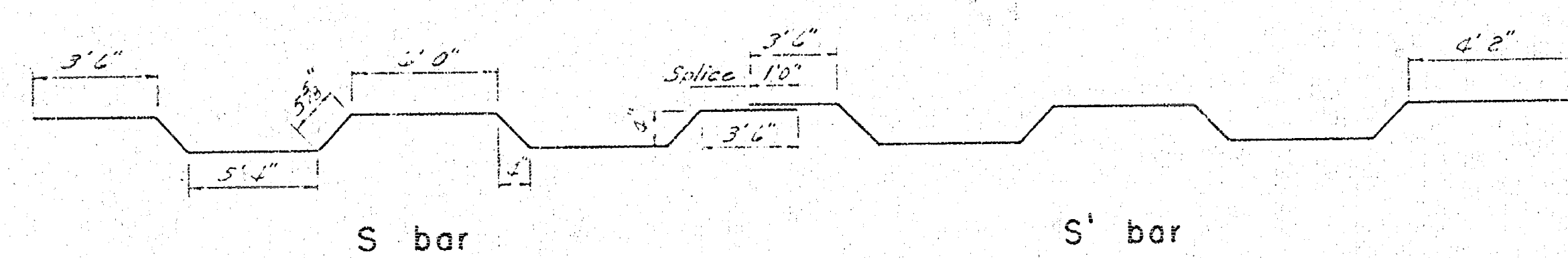
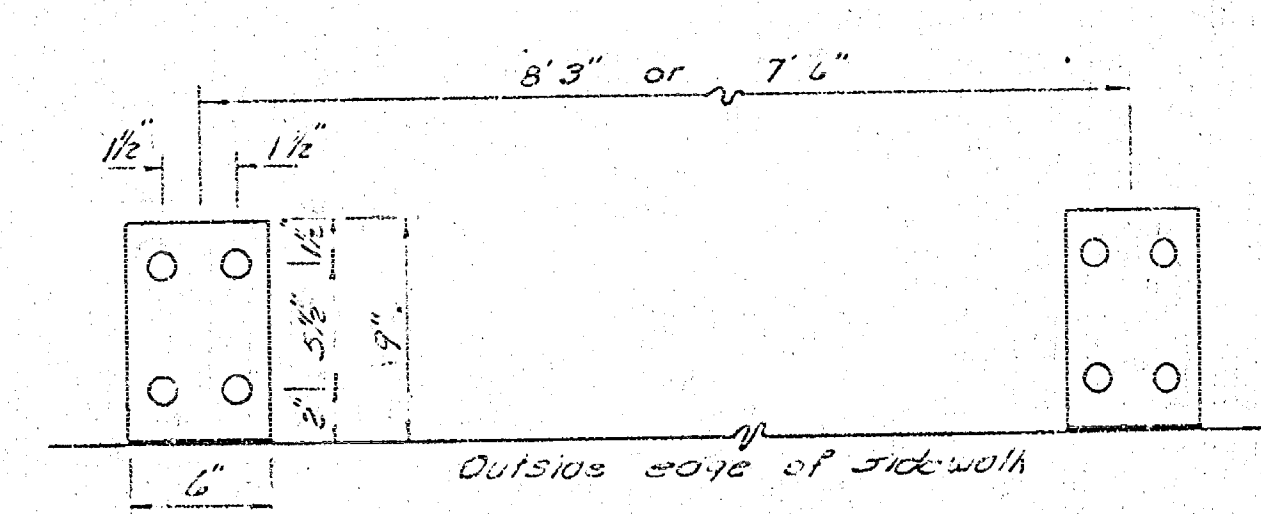
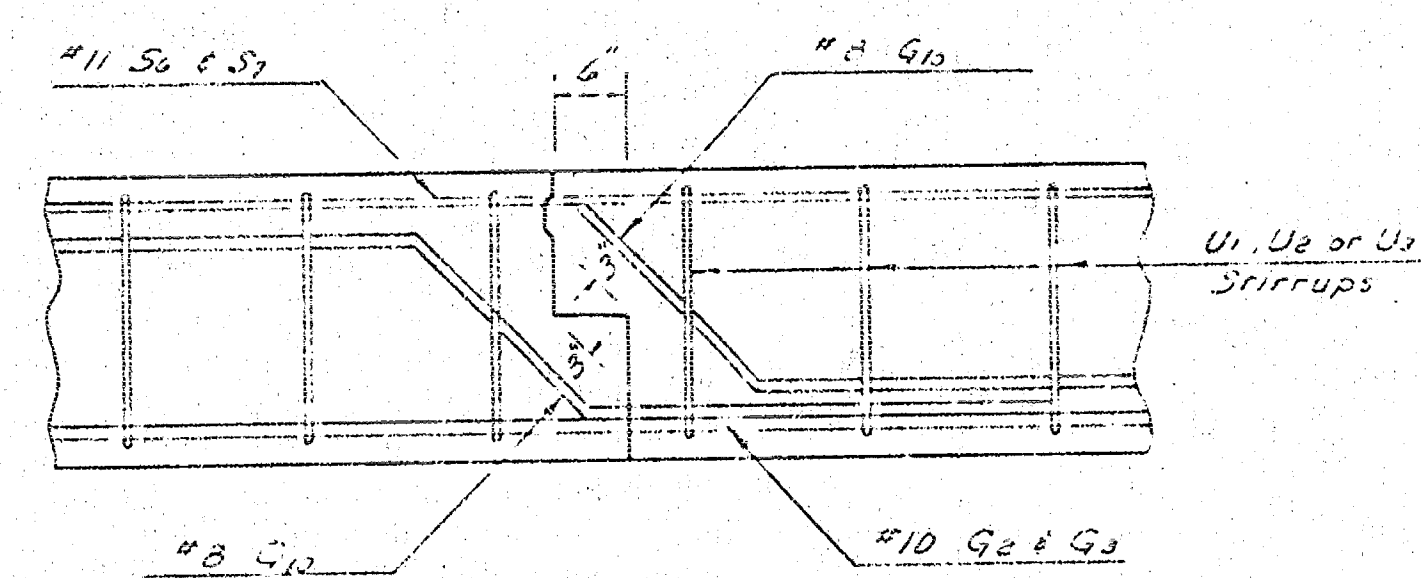
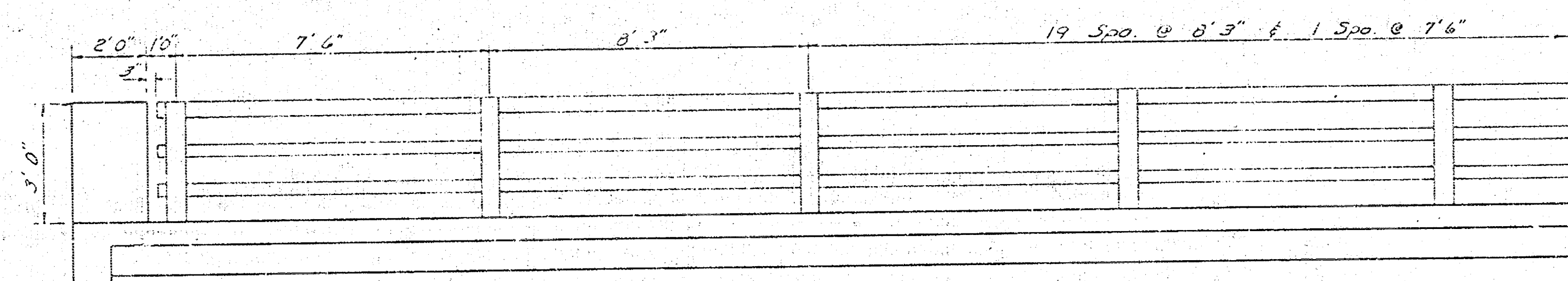
PLAQUES - Contractor to provide and install two 12"x12" cast bronze plaques, one on each handrail post. Thickness and finish of plaques shall conform to Section 118.70 of Standard Specifications. Sedgwick County, to furnish full size detail drawing. Plaques shall not be paid for directly, but shall be considered as subsidiary to other items in the bridge contract.

SUMMARY OF QUANTITIES		
Concrete Class A	676.3	Cu. Yds.
Reinforcing Steel	112.500	Lbs.
12" x 12" Prestressed Pile	2.474	Lin. Ft.
Aluminum Rolling	36.3	Lin. Ft.
Rolling Posts	42	Do.
Rolling Hardware (bolts)	143	Lbs.

REINFORCING STEEL																			
DECK																			
BAR	S	S'	S ₁	S ₂	S ₃	S ₄	S ₅	S ₆	S ₇	S ₈	S ₉	S ₁₀	S ₁₁	S ₁₂	S ₁₃	S ₁₄	S ₁₅	W ₁	W ₂
NO.	129	149	300	300	300	16	102	80	20	52	200	66	8	156	60	40	56	40	10
SIZE	5	5	5	5	5	4	11	11	11	11	4	11	4	5	5	5	5	5	5
LENGTH	25'7"	25'3"	25'6"	0'6"	16'2"	25'9"	8'0"	28'0"	28'0"	16'0"	14'2"	10'0"	32'0"	28'5"	16'0"	21'0"	9'0"	10'0"	30'0"

		GIRDER														ABUT.		WING								
CAP																										
BAR	C ₁	C ₂	C ₃	G ₁	G ₂	G ₃	G ₄	G ₅	G ₆	G ₇	G ₈	G ₉	G ₁₀	U ₁	U ₂	U ₃	P ₁	P ₂	M ₁	M ₂	M ₃	M ₄	V ₁	V ₂	V ₃	
NO.	12	40	216	36	36	54	54	20	16	32	40	36	36	90	580	500	280	12	136	28	12	12	20	24	24	16
SIZE	8	8	4	10	10	10	10	10	11	11	10	10	8	4	4	5	5	5	5	5	5	5	5	5	5	5
LENGTH	29'10"	25'9"	8'0"	37'0"	39'8"	28'0"	32'0"	25'6"	27'0"	16'0"	12'0"	12'0"	16'0"	8'9"	5'9"	6'10 1/2	7'2 1/2	29'6"	3'6"	5'9"	5'9"	12'0"	6'5"	"	4'1"	3'10"

* Decrease from 7'8" to 6'11", by 1 1/2 dec.
cut 4 of each.

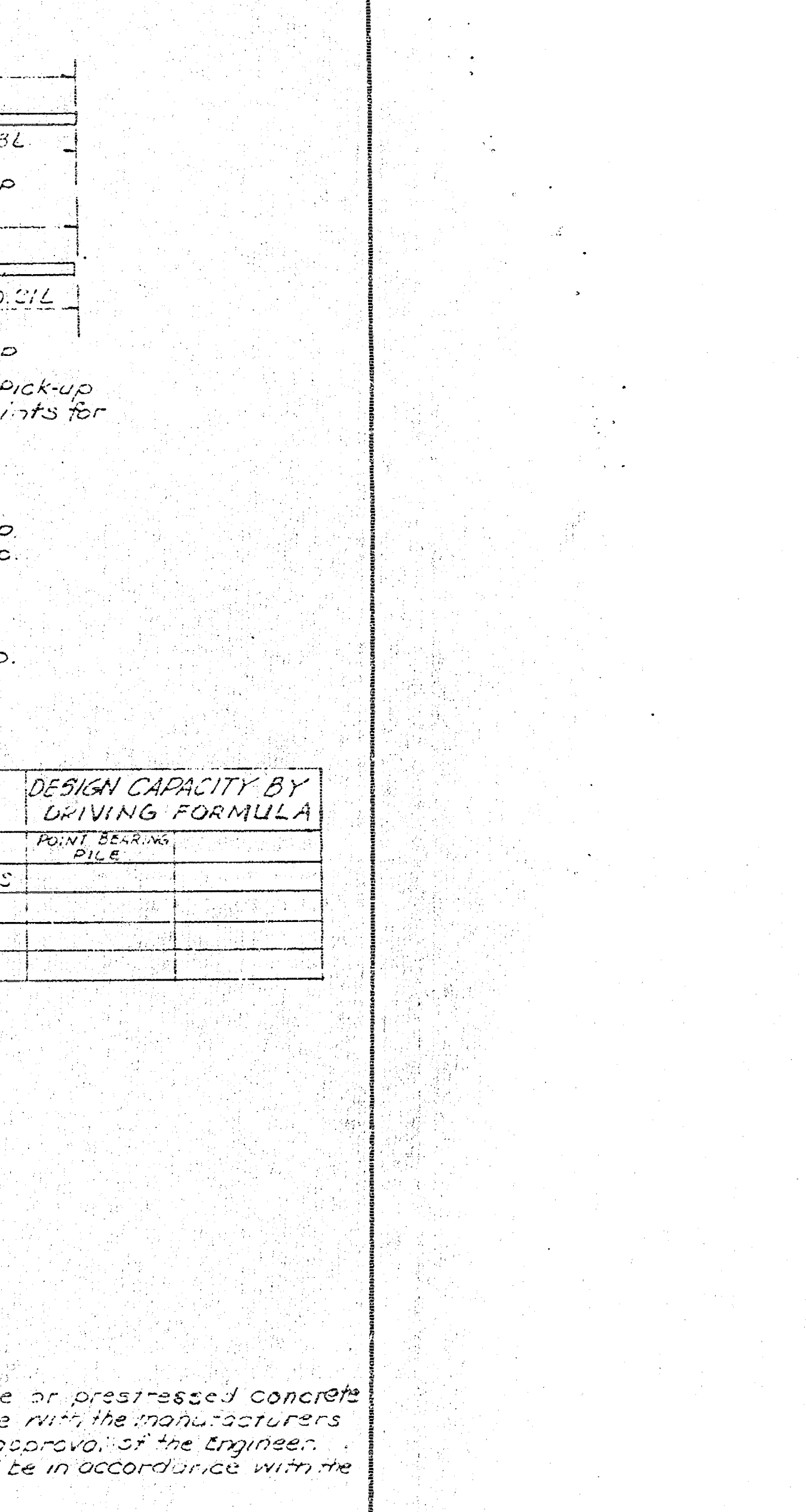
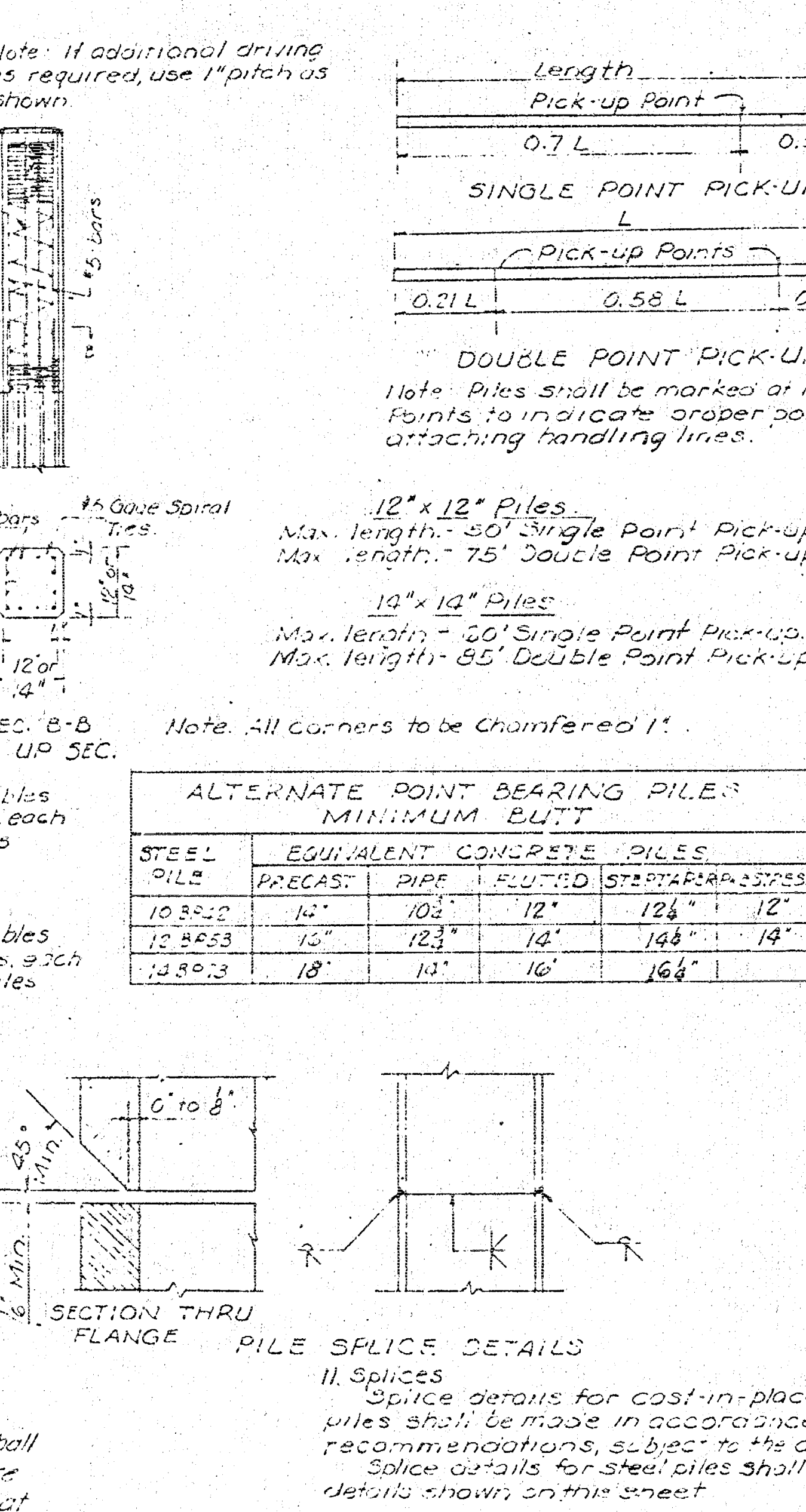
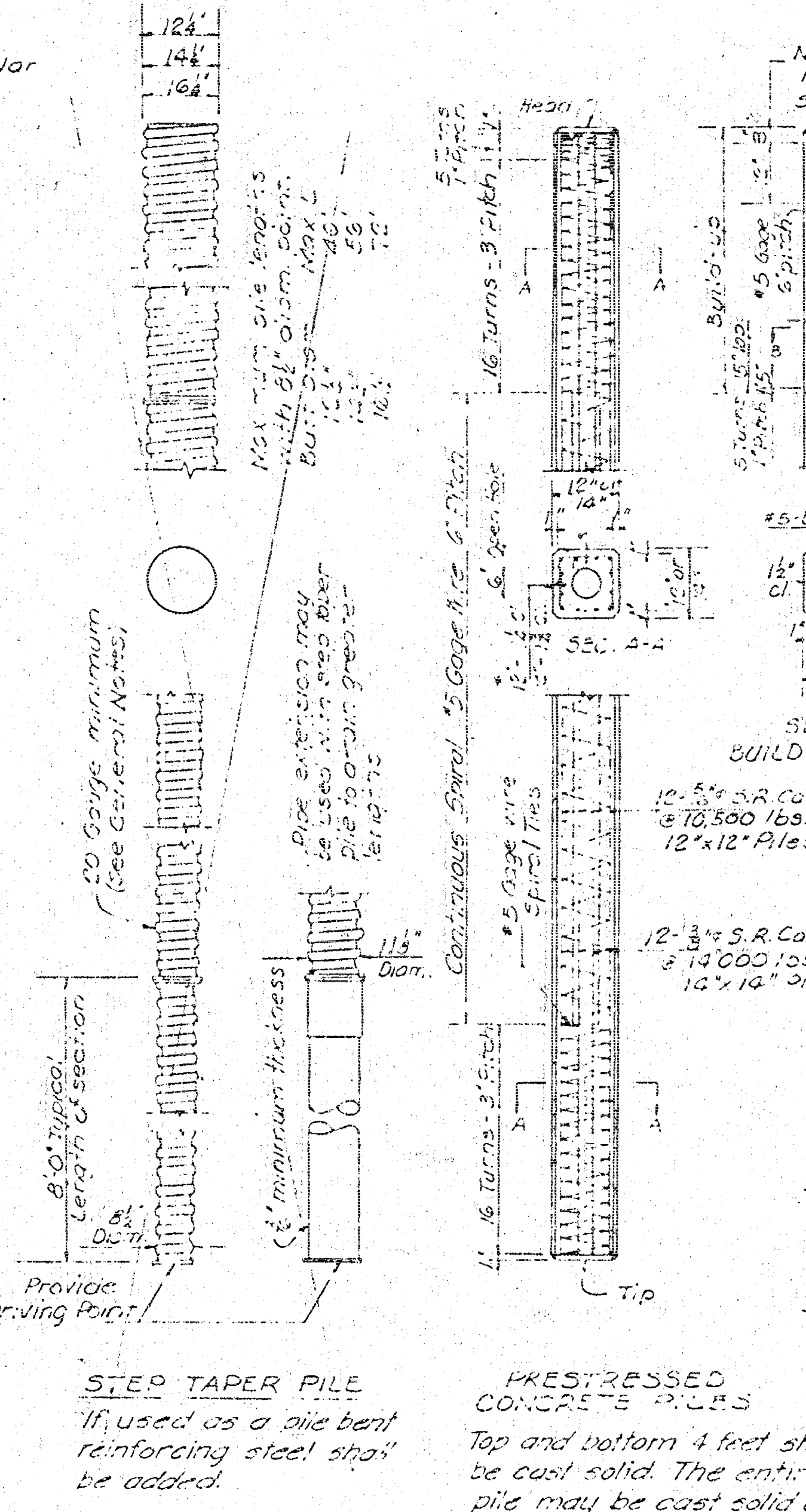
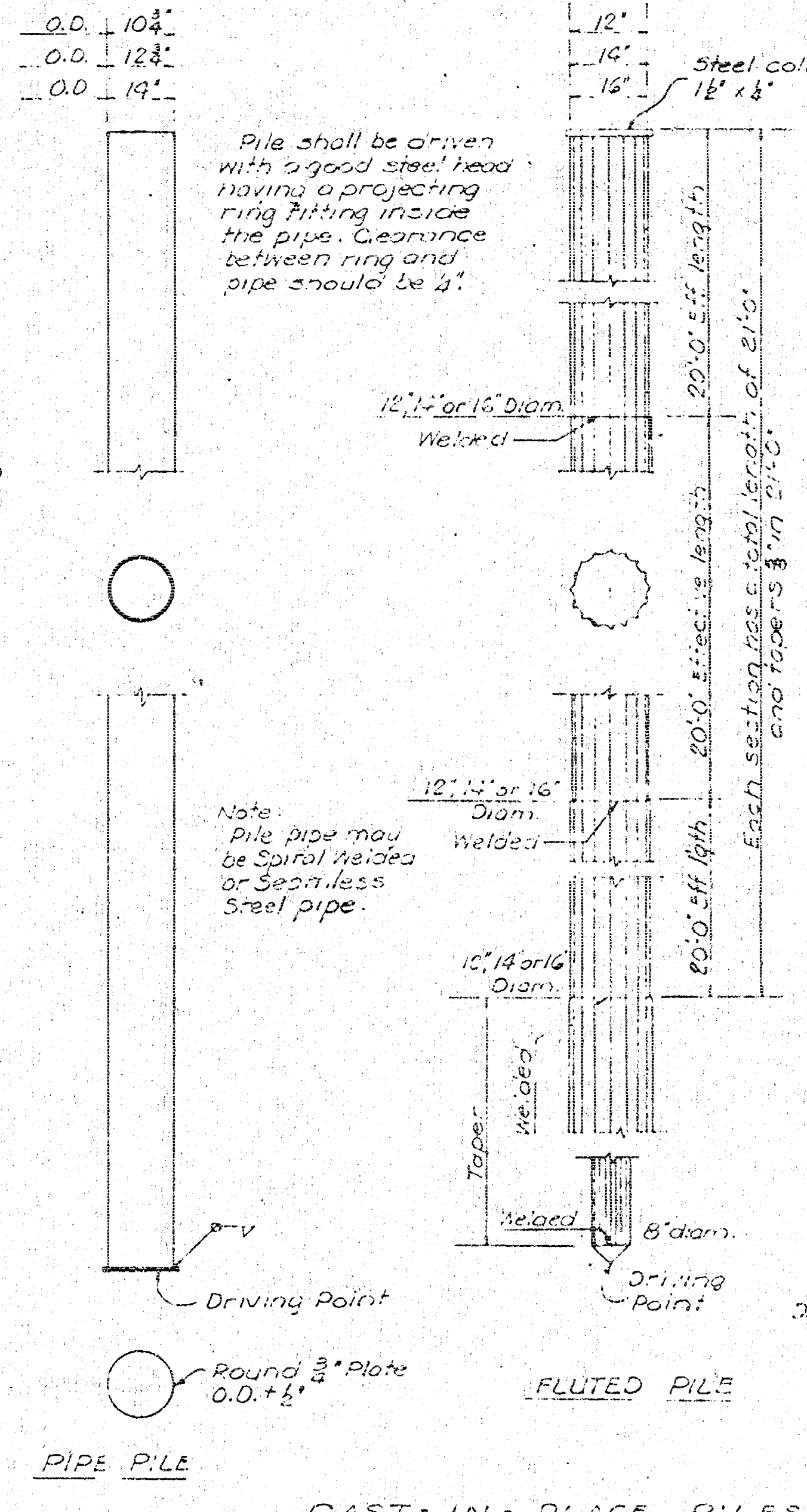
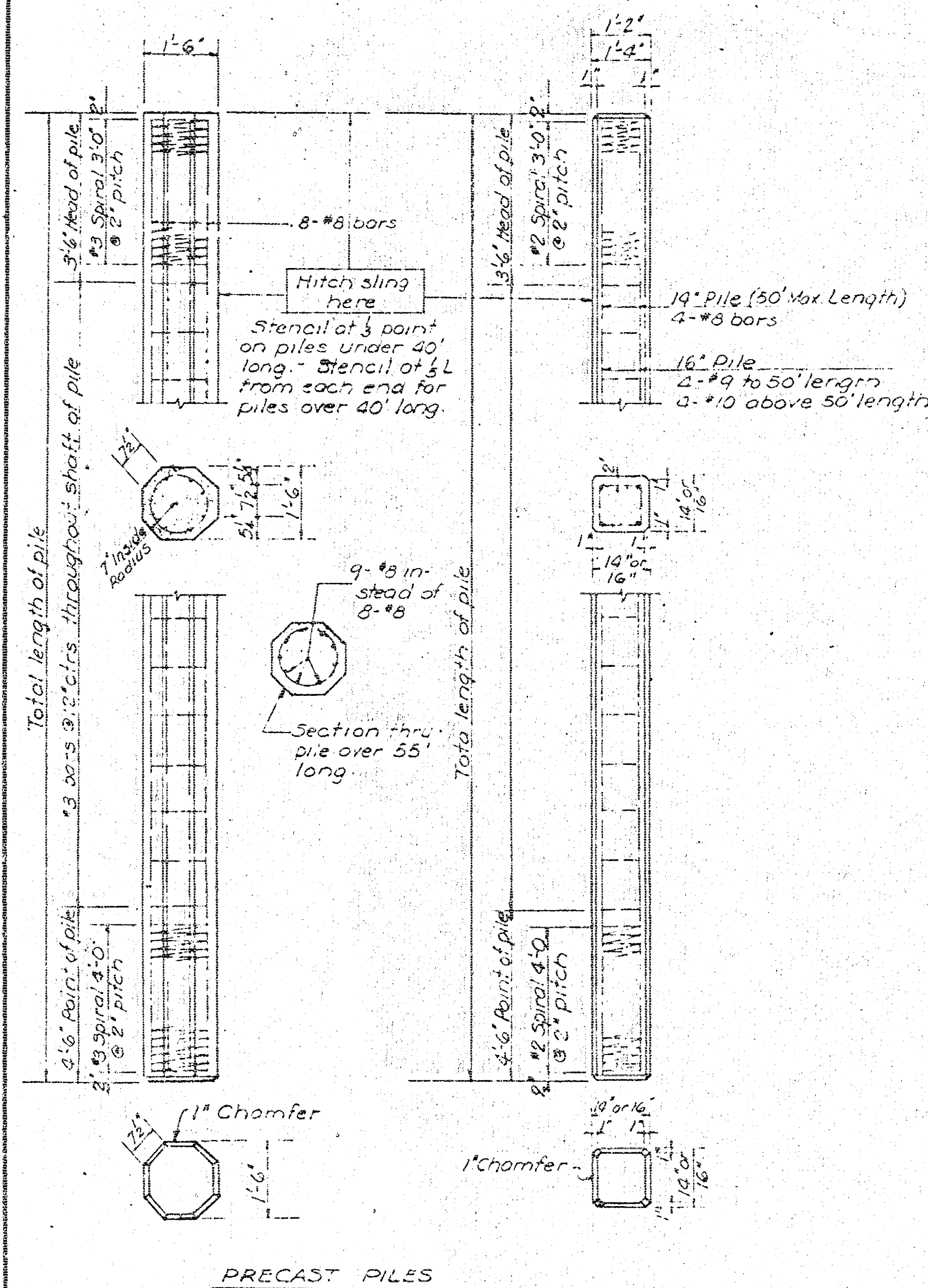


32' - 3 @ 40' - 32'
CONTINUOUS CONCRETE GIRDER
AUXILIARY DETAIL

PREPARED BY
SEDGWICK COUNTY ENGINEERING DEPT.
RUEUS S. KIRK - COUNTY ENGINEER

REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
	<i>As Shown</i>	<i>G.J.F.</i>	<i>M.D.</i>		5
	DATE	<i>Feb. 57</i>	<i>Feb. 57</i>		
	PLANFILE		TOTAL SHEETS <i>7</i>		

PUR. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
NO. 1	KANSAS	NO. 1	YEAR	NO. 1	SHEETS

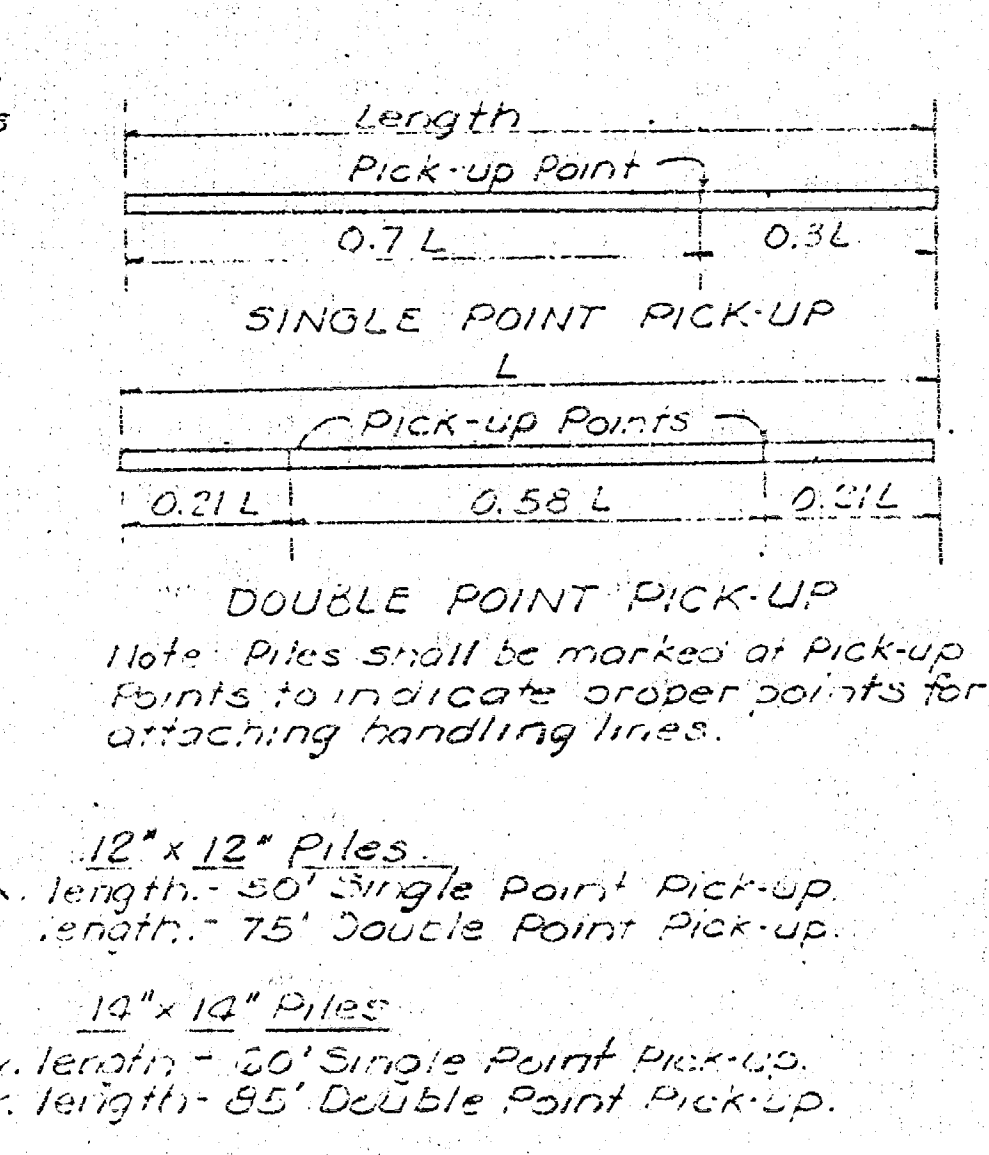


General Notes

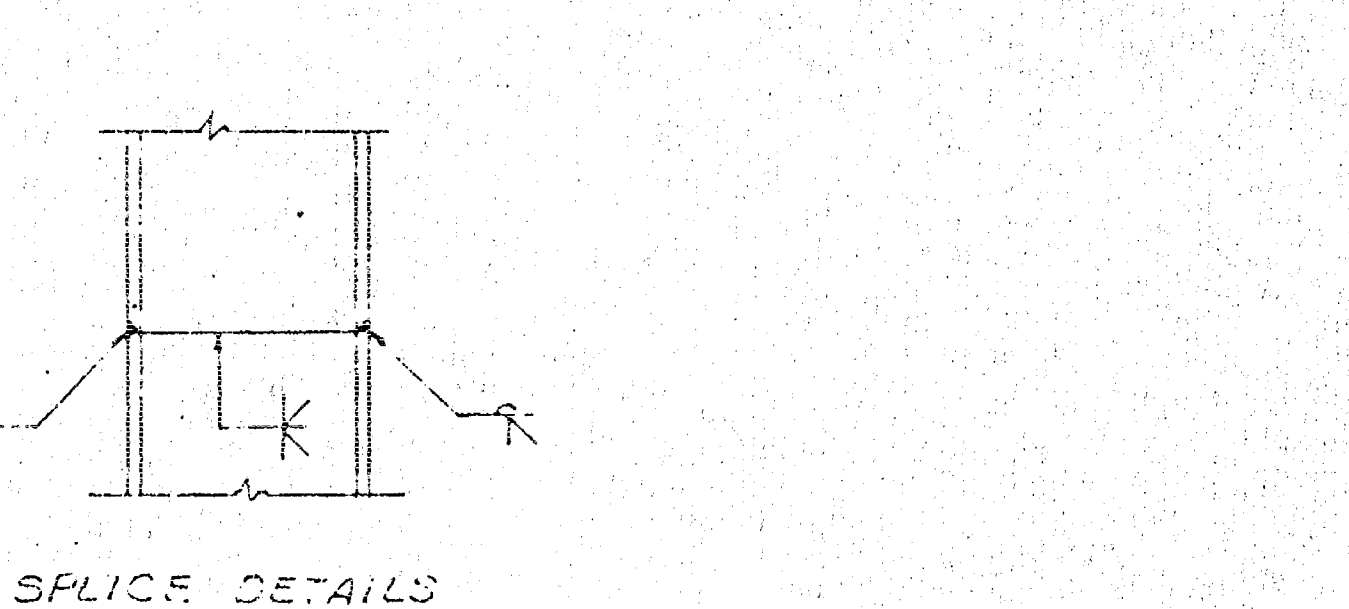
1. Specifications
Standard Specifications for State Road and Bridge Construction as currently used by State Highway Commission of Kansas.
2. Choice of Piles
As indicated in the plans, piles will be considered as point bearing piles or as friction piles. Where point bearing piles are specified, the contractor may elect to use either the steel pile specified on the footing plans or the equivalent precast concrete, cast-in-place concrete or prestressed concrete pile shown in the table on this sheet. Where friction piles are specified the contractor may elect to use either the size and type concrete pile specified on the footing plans or the equivalent precast concrete, cast-in-place concrete or prestressed concrete pile shown in the table on this sheet. Steel piles are not included as an alternate where friction piles are specified. Other types of concrete piles not shown here are subject to the approval of the Engineer.
3. Concrete
All concrete for precast and cast-in-place shall be Class "A" to 3,000 p.s.i.. Concrete for Prestressed piles shall be Class "A" to 4,000 p.s.i..
4. Reinforcement
Reinforcing bars shall be new billet steel of intermediate grade without exception. Hoops and spirals may be either plain or deformed bars.

5. Precast Piles
Precast piles shall conform to the requirements of Section 58.310 of the specifications.
6. Cast-in-place Shells
A. Pile shells shall have a minimum thickness as follows:
1. Piles driven without mandrel - 8 gage except fluted pile use 9 gage minimum.
2. Piles driven with mandrel. Shell shall be of sufficient strength and thickness to withstand driving without injury and to resist harmful distortion and buckling due to soil pressure after being driven and the mandrel removed.
B. Pile shells shall meet the following material requirements:
1. Fluted steel shells, who steel shall be SAE 100 classification for each heat of steel.
2. Spiral welded steel - ASTM designation A252, Grade 2 electric fusion-welded spiral seam steel pipe.
3. Seamless steel pipe - ASTM A252, welded and seamless steel pipe.
4. Corrugated steel shell - SAE 100.
C. The contractor shall maintain on the job at all times prior to and during the filling of the shells, a light suitable for their inspection.

- D. Improperly driven, broken or otherwise defective shells shall be removed and replaced or otherwise corrected to the satisfaction of the Engineer by removal and replacement or the driving of an additional pile at no extra cost.
7. Steel Piles
Steel pile material shall meet the requirements of ASTM A7-53T.
8. Pile Points
All cast-in-place piles shall be equipped with a steel driving point of minimum thickness. Driving point shall be mill welded to the pile shell. Driving points shall be either hot pressed steel meeting the requirements of SAE 1055 for forged steel, or cast steel meeting the requirements of ASTM Serial No. A-97-42, Grade 2, or structural steel meeting the requirements of ASTM A7-53T.
Steel piles shall have a square cut end only. No driving cone is required.
9. Welding
All field welding shall meet the requirements of Section 51.34 of the Specifications.
10. Point
Shall comply with the Kansas Standard Specifications (1955 Edition).



ALTERNATE POINT BEARING PILES				DESIGN CAPACITY BY	
MINIMUM DWT				DRIVING FORMULA	
STEEL PILE	PRECAST	PIPE	FLUTED	STEEL PILES	POINT BEARING PILES
10.5 x 12	12	12	12	12	12
12.5 x 12	12	12	12	12	12
13.5 x 12	12	12	12	12	12



11. Splice Details
Splice details for cast-in-place or prestressed concrete piles shall be made in accordance with the manufacturers recommendations, subject to the approval of the Engineer. Splice details for steel piles shall be in accordance with the details shown on this sheet.
12. Driving Formula
Piles shall be driven to the minimum bearing value as specified on the Construction Layout as determined by the driving formulas stipulated in the Specifications.
13. Mill Test Reports
Notarized mill test reports, in triplicate, shall be furnished by the contractor for all steel pile and cast-in-place pile shells.
14. Payment
Payment for all piles will be made as set forth in the Specifications.
15. Test Piles
Test piles shall be driven where called for on the Bridge plans. All test piles shall be located so that they will become part of the bridge pile system.

STANDARD PILE DETAILS

Sheet No. 6

DESIGNED BY	CHECKED BY	SCALE	DATE	QUANTITY	TRACED

PLAN	CHECKED	DATE
NOTE BOOK	10/1/22	
REVISION		
BY		

PROFILE	CHECKED	DATE
NOTE BOOK	10/1/22	
REVISION		
BY		

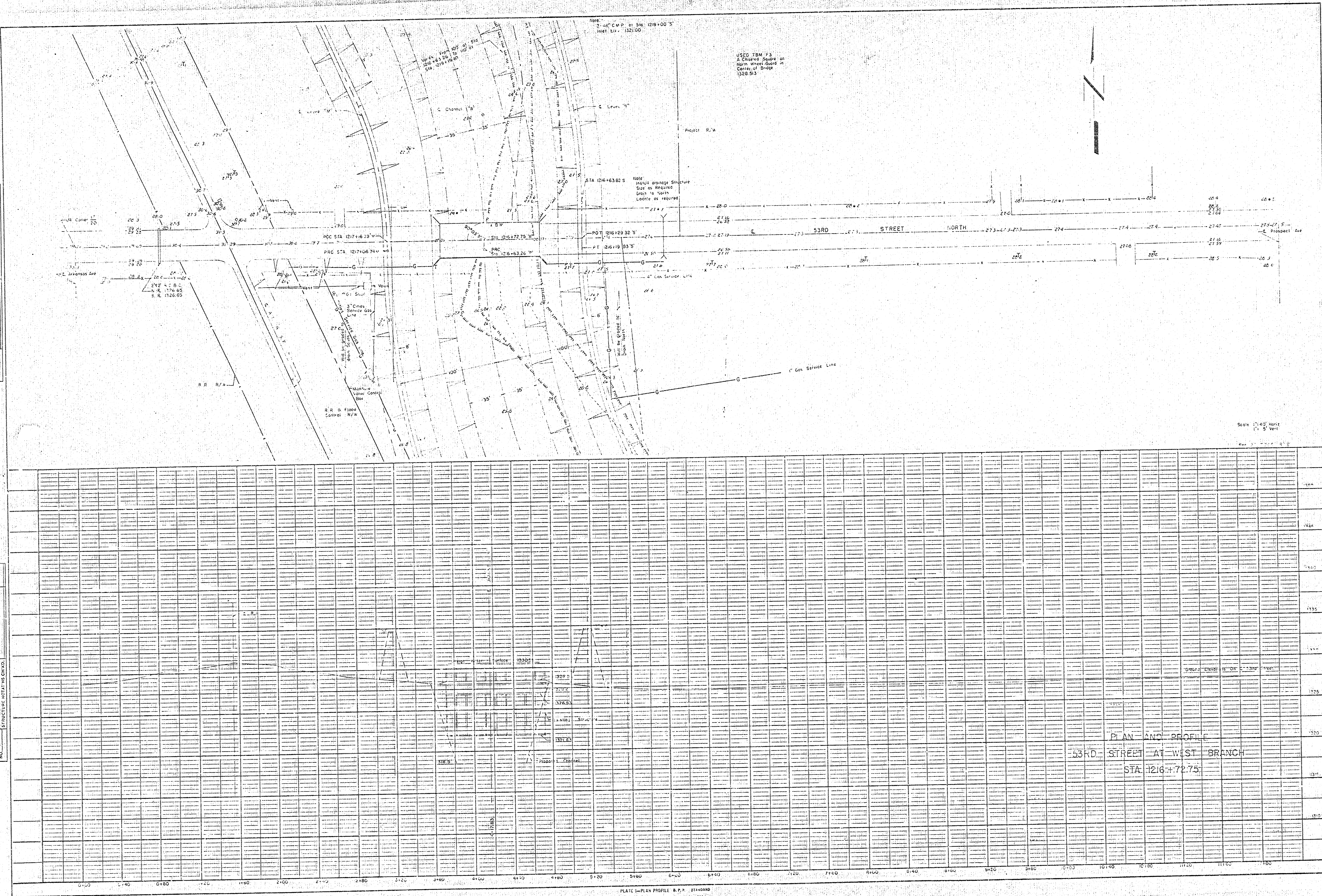


PLATE 1-PLAN PROFILE & P.P. 213-0000
THE PROTECTIVE FIRM CO. CHICAGO, ILL.