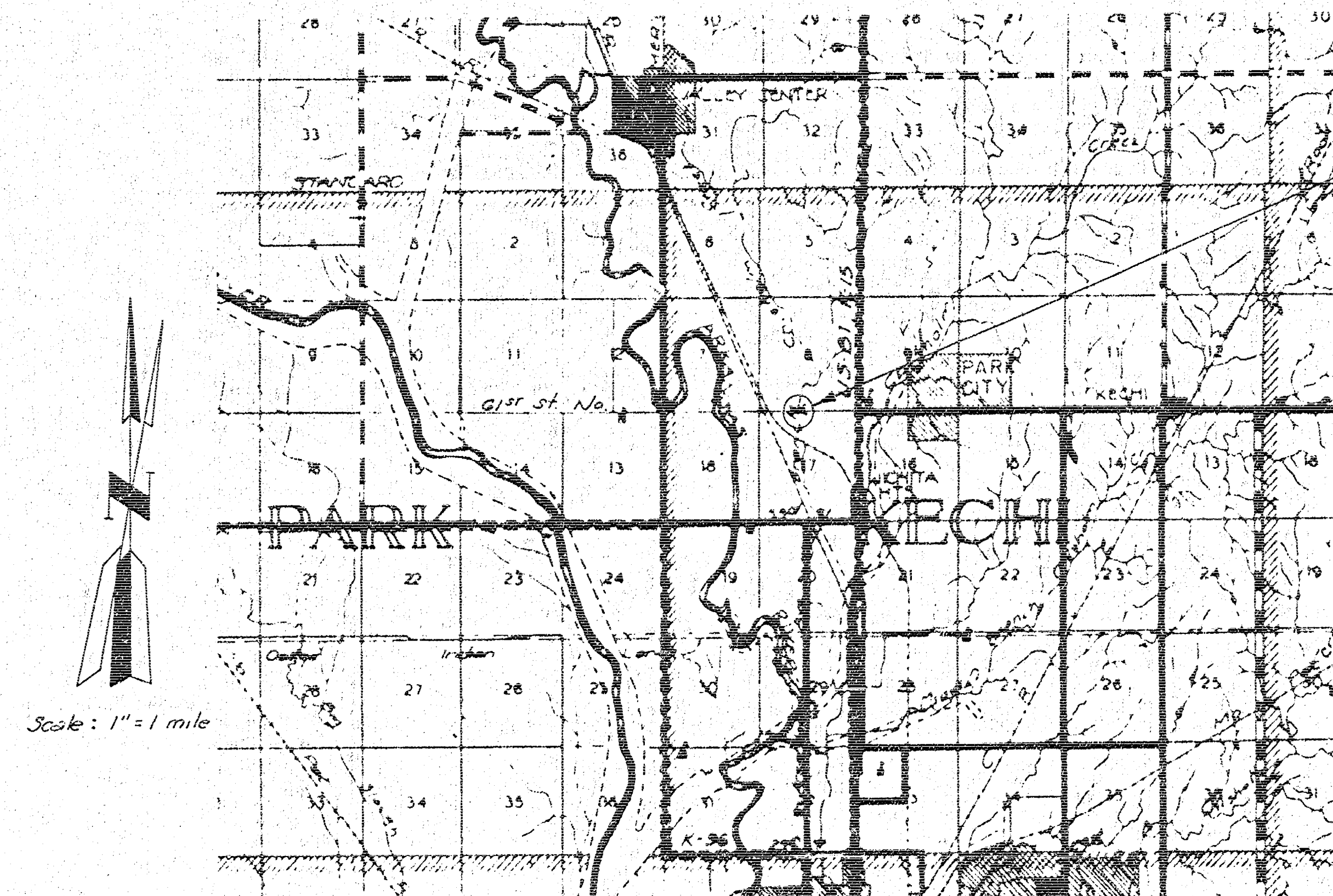


INDEX OF SHEETS

SHEET NO. 1	TITLE SHEET
SHEET NO. 2	PLAN-PROFILE
SHEET NO. 3	CONSTRUCTION LAYOUT
SHEET NO. 4	REINFORCING DETAILS
SHEET NO. 5	AUXILIARY DETAILS
SHEET NO. 6	PILING DETAILS



STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KANSAS				



Sta. 17+83.12 (6th St. & W. Br. Chisholm Cr.)
Construct Mod. T-Beam Bridge
5 Spans @ 36'-0"

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	5348.55	FT	1.013	MILES
NET LENGTH OF BRIDGES	182.0	FT	0.034	MILES
NET LENGTH OF ROAD	5166.55	FT	0.979	MILES
EXCEPTIONS	NONE	FT	NONE	MILES
ADDITIONS	NONE	FT	NONE	MILES
GROSS LENGTH OF PROJECT	5348.55	FT	1.013	MILES

PLANS PREPARED BY
SEDGWICK COUNTY ENGR. DEPT.

DATE

APPROVED

CHAIRMAN
BOARD OF COUNTY COMMISSIONERS

APPROVED

COUNTY ENGINEER

DATE

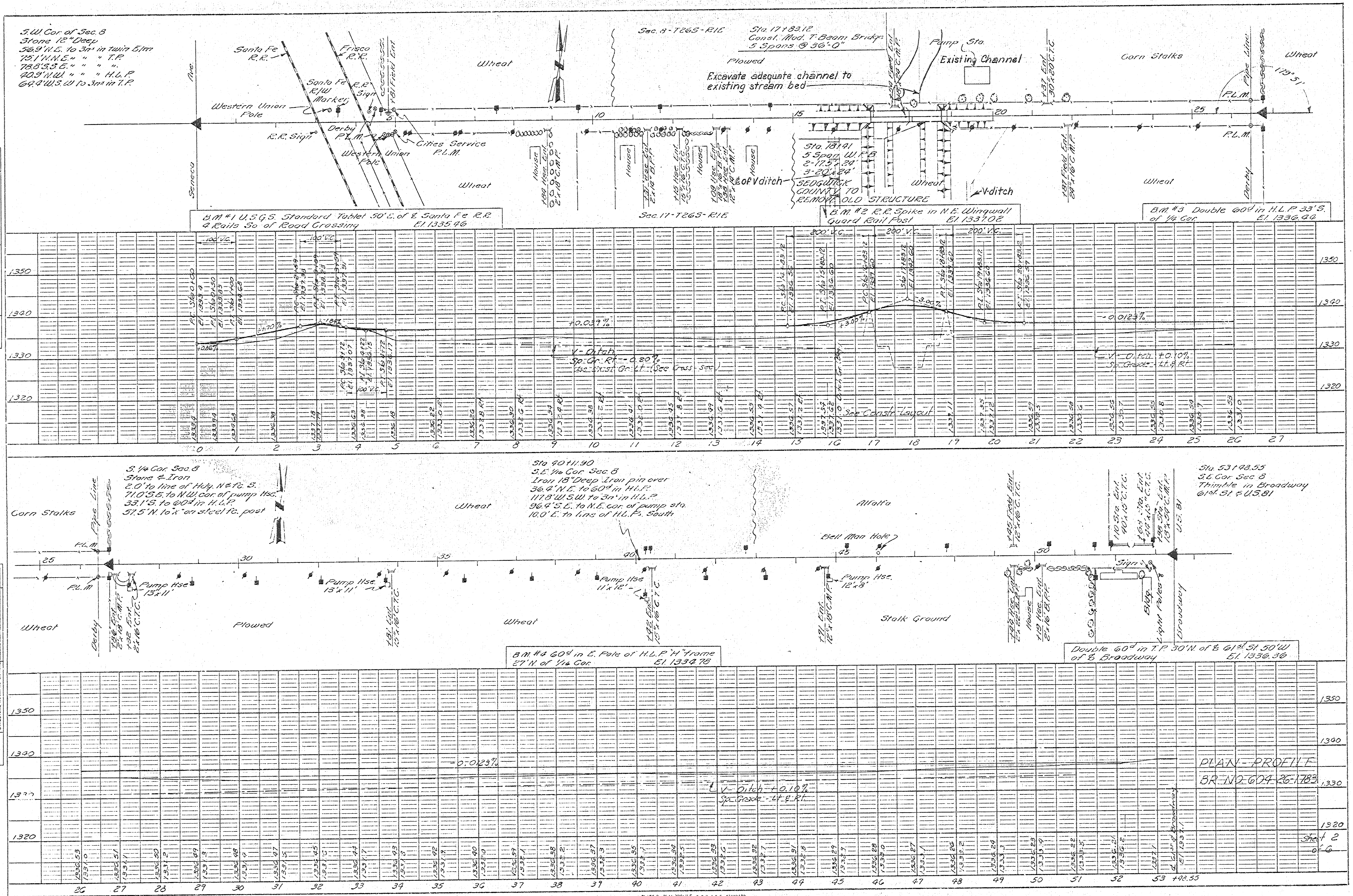
APPROVED

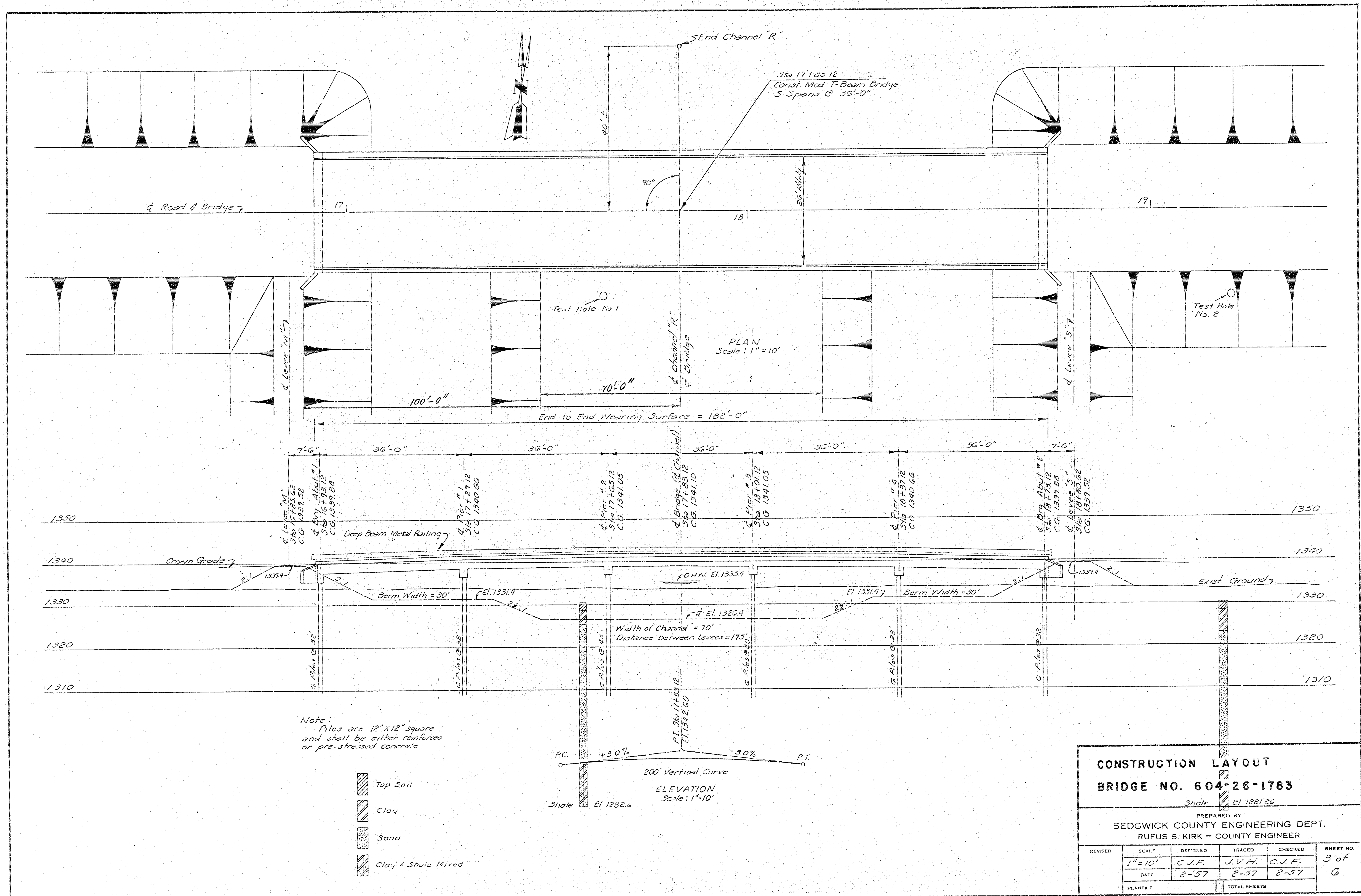
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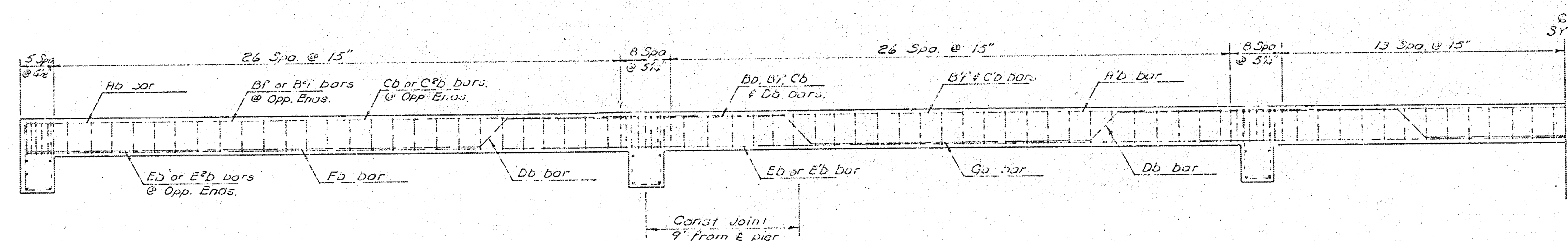
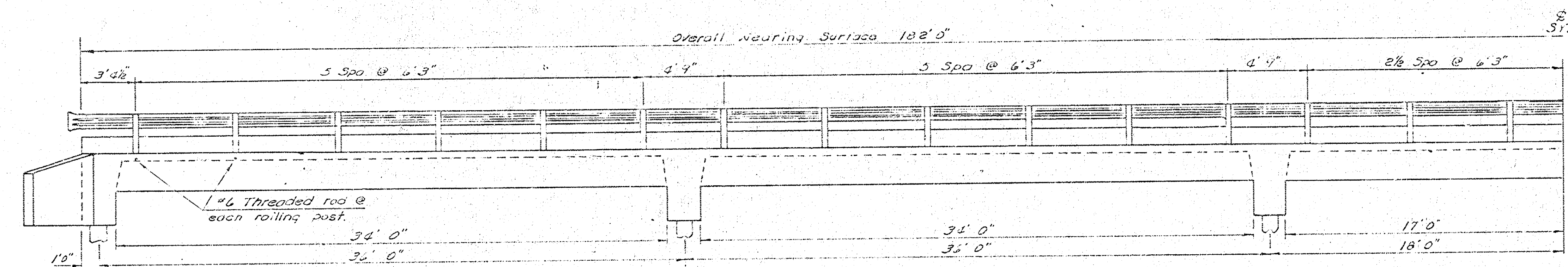
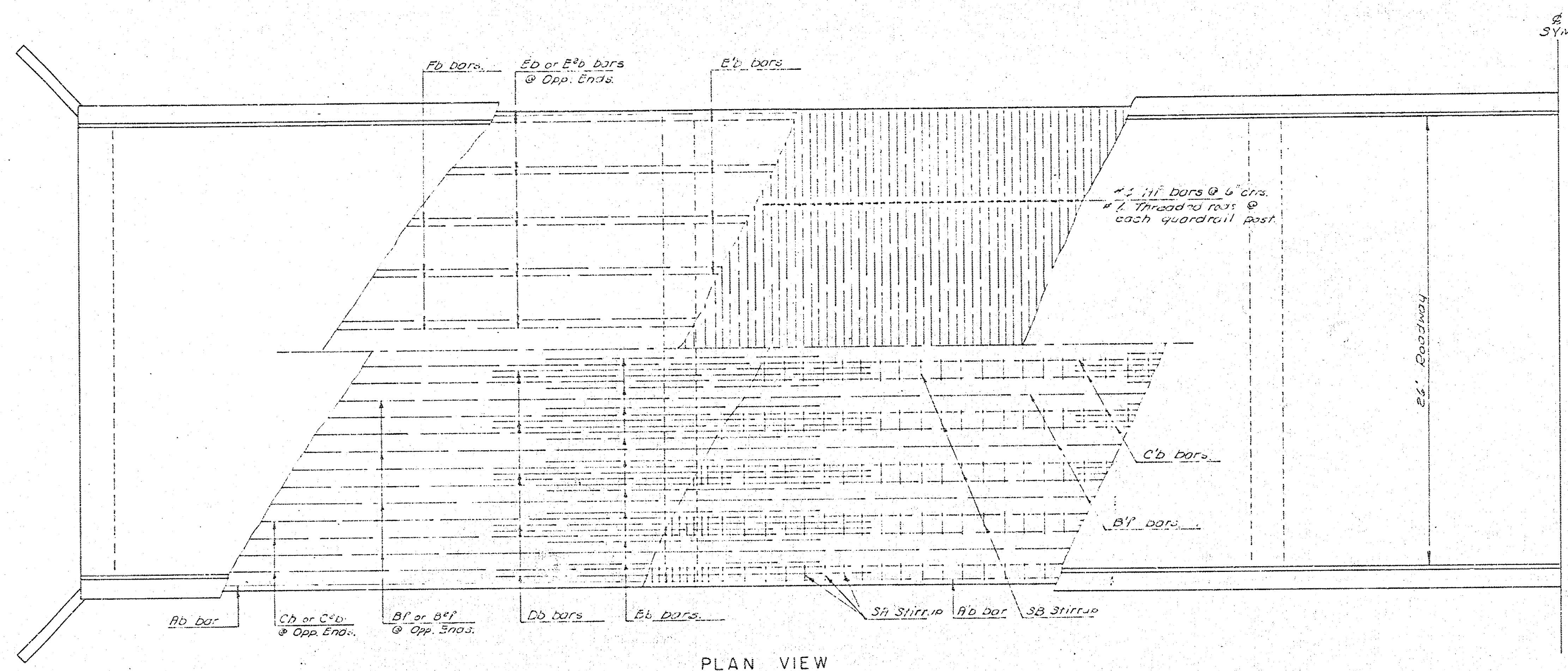
Glenn W. Branch

PLAN
 SHEET NO. 1
 DATE: 10/1/1911
 BY: J. H. HARRIS
 CHECKED: J. H. HARRIS
 NO. 1

PROFILE
 SHEET NO. 2
 DATE: 10/1/1911
 BY: J. H. HARRIS
 CHECKED: J. H. HARRIS
 NO. 2







GENERAL NOTES

DESIGN - Designed For H-20-44 loading AASHTO
Specifications, $f_c = 20,000$ psi; $f_c =$
1,200 psi.

SOUNDING - To be taken by Sdg. Co. Engr. Dept.

PILING - Concrete precast or prestressed piling to be driven to a calculated resistance of 24 ton.

OLD STRUCT.- To be removed by Seag. Co.

CONCRETE - Class A (AE) concrete used throughout. Bevel all exposed edges with a $\frac{3}{8}$ " & molding unless otherwise noted. Forms shall be preformed steel "pans" used as directed by the Engr. in charge.

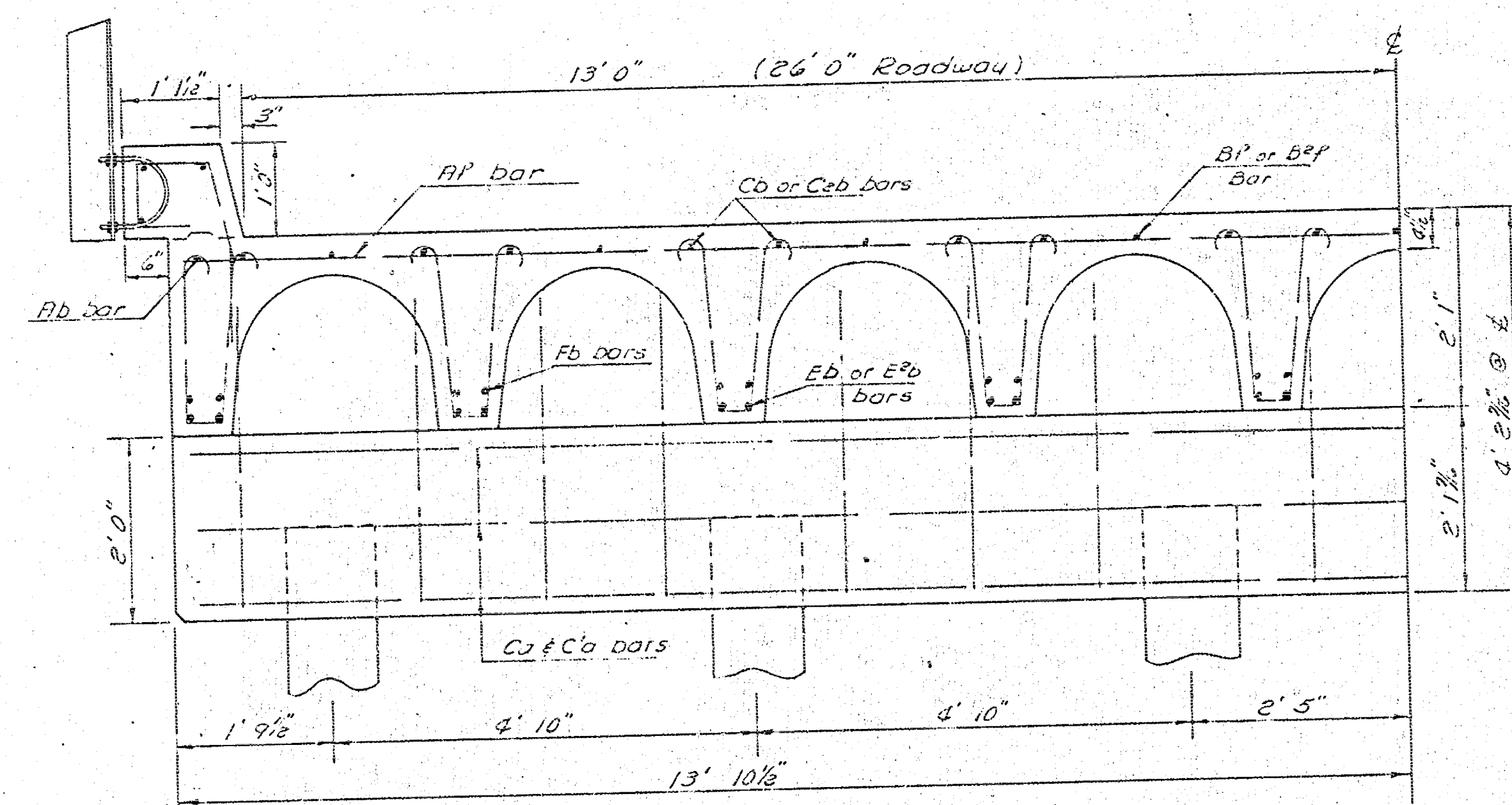
GUARDRAILING - To be standard Deep Beam
guardrail as shown on const. layout.

PAINT - All parts of the Metal Handrail shall receive one shop coat of red lead paint. All exposed surfaces of structural steel and metal hand-rail shall receive one coat of tinted aluminum paint followed by one coat of aluminum paint after erection.

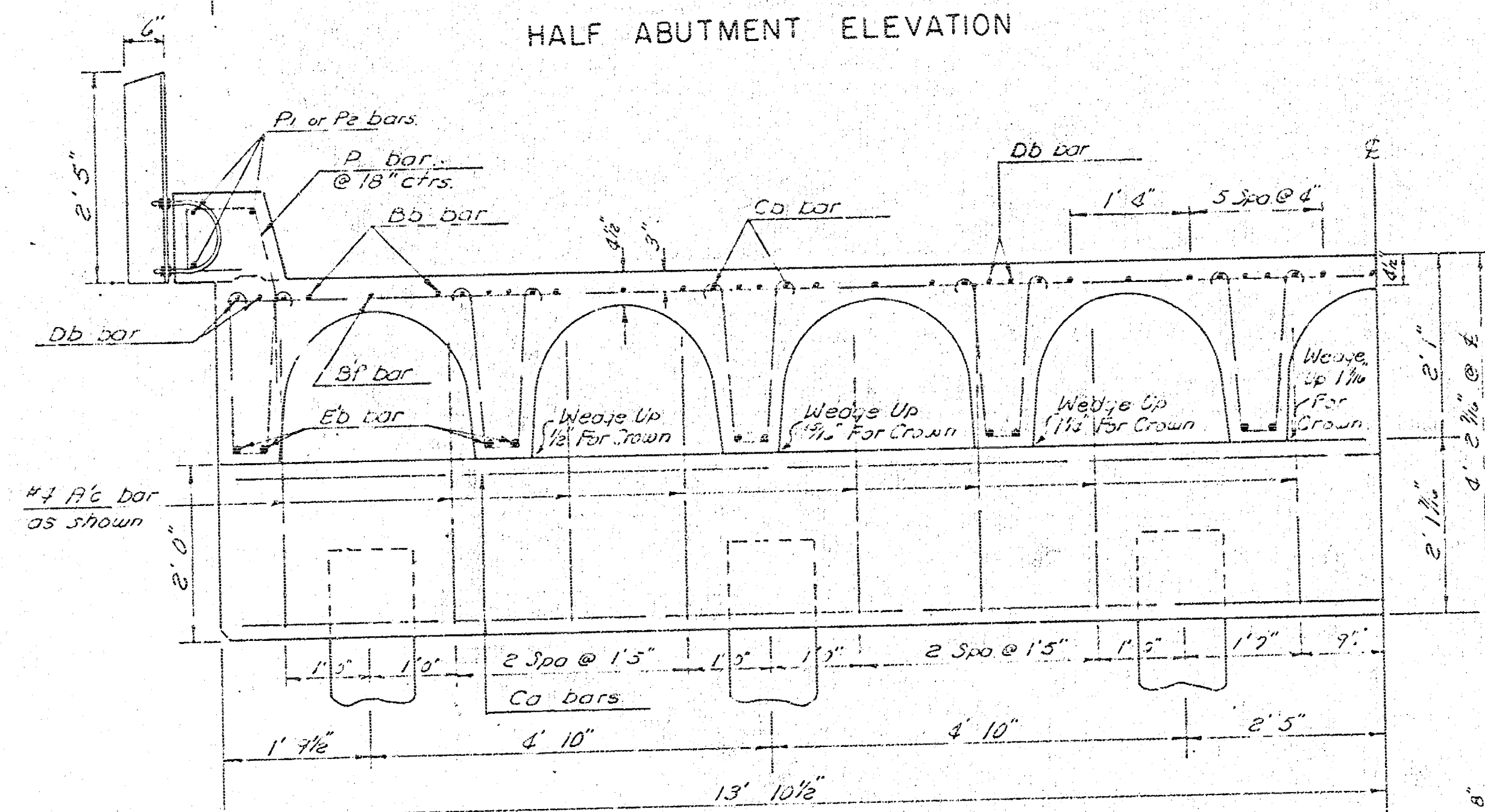
RE CONC. MODIFIED T-BEAM BRIDGE
REINFORCING DETAIL
BRIDGE NO. 604-26-1783

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

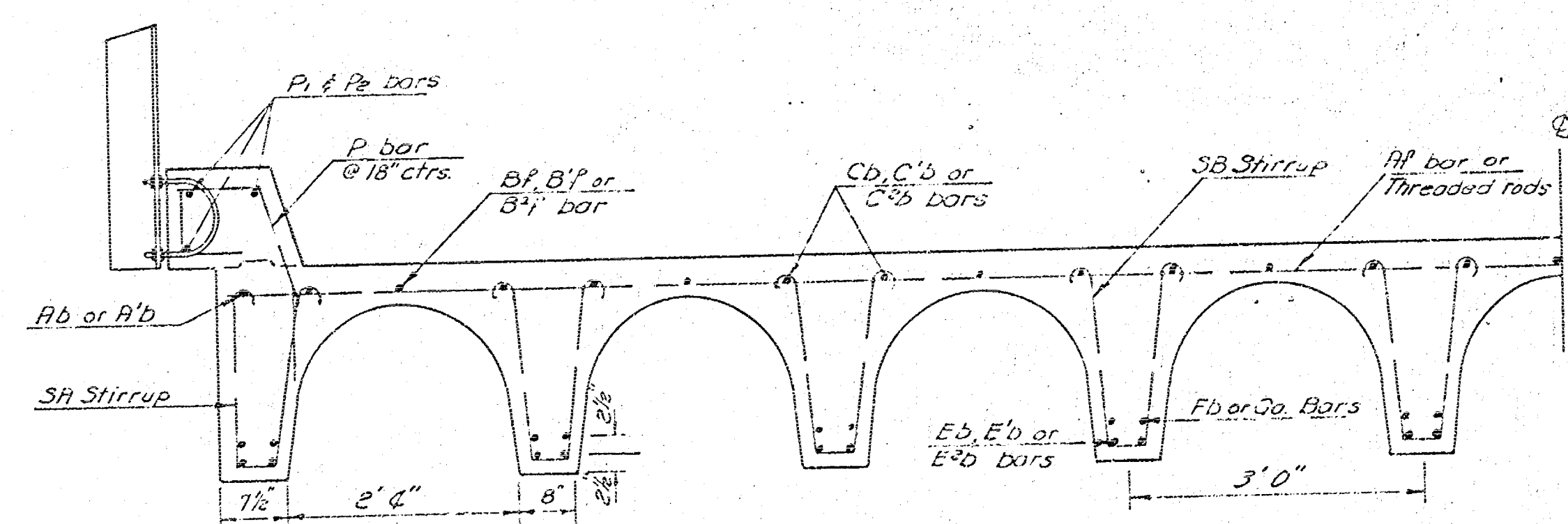
REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET 4 of 6
	1/8" = 1'	M.D.	M.D.	C.J.F.	
	DATE	1-57	Jan. 57	E-57	
	PLANFILE		TOTAL SHEETS		



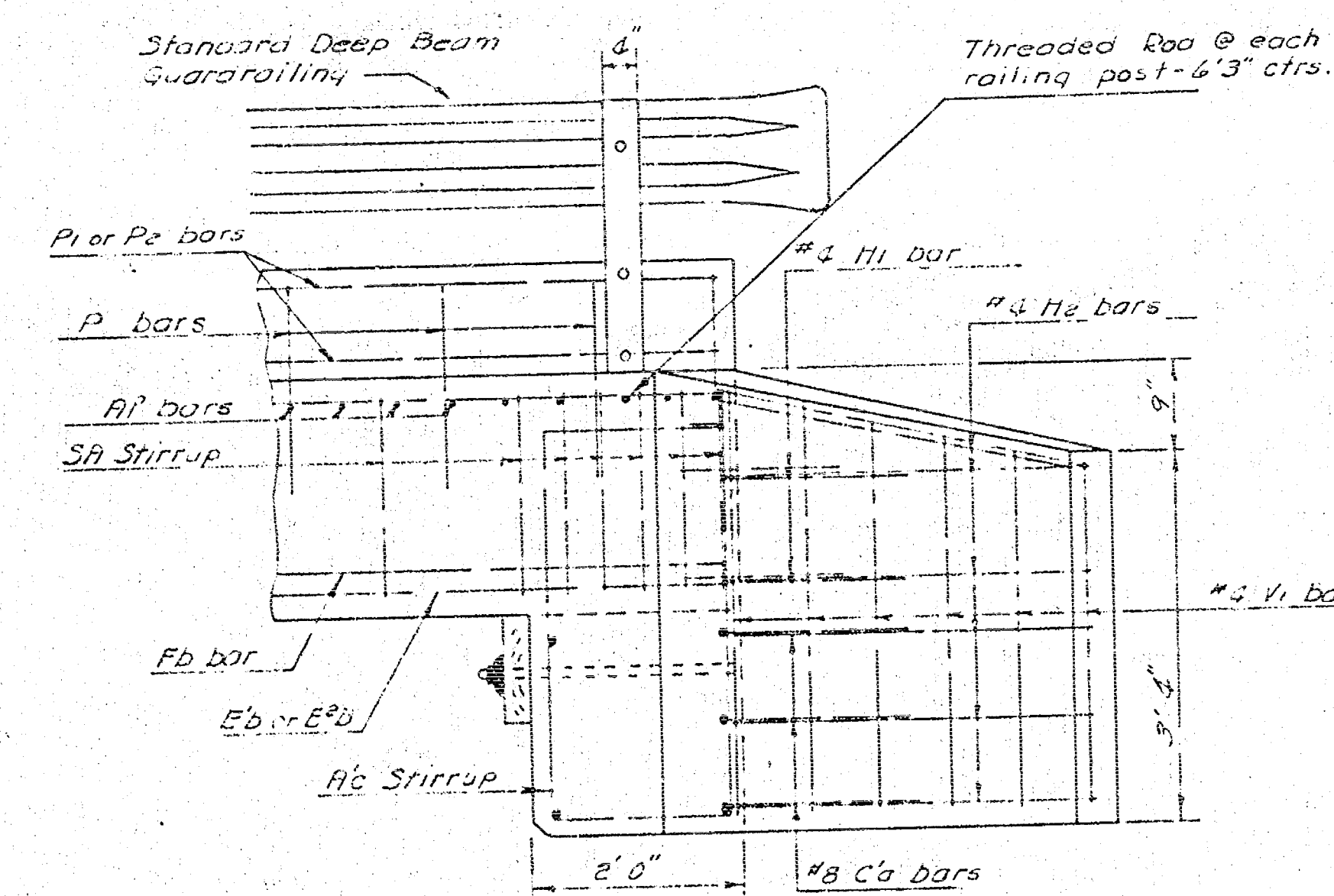
HALF ABUTMENT ELEVATION



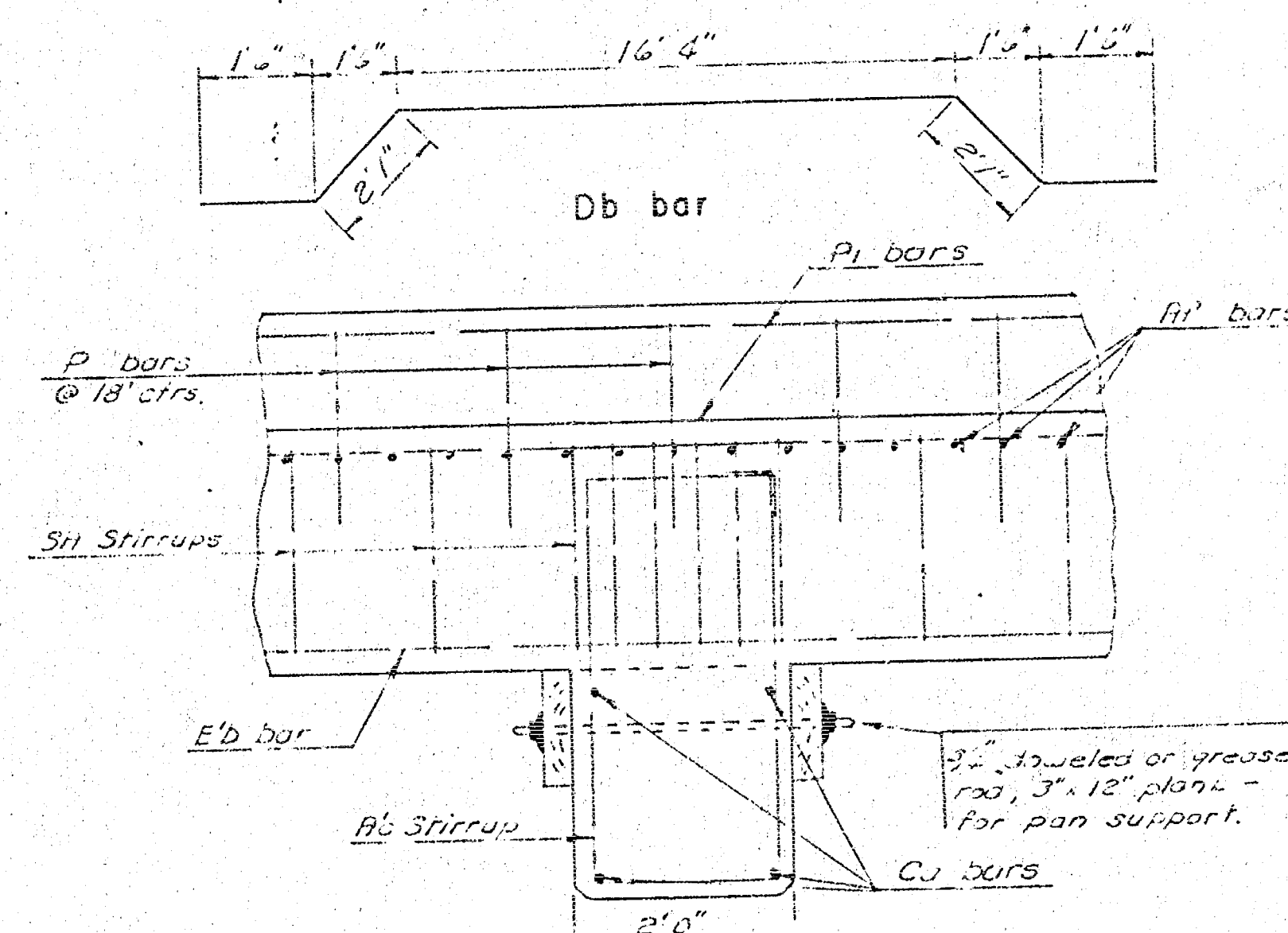
HALF PIER ELEVATION



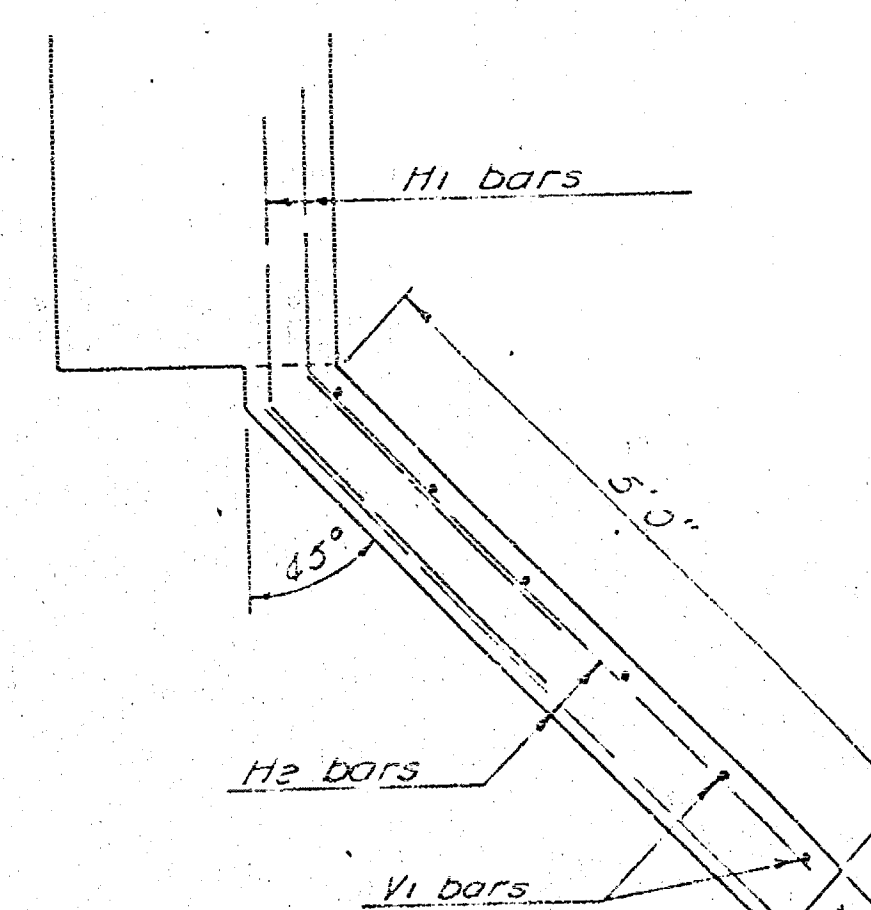
MID-SPAN ELEVATION



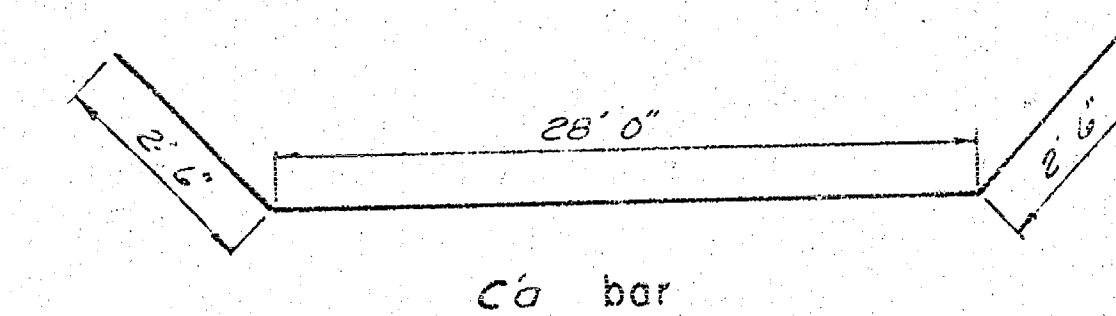
WING ELEVATION



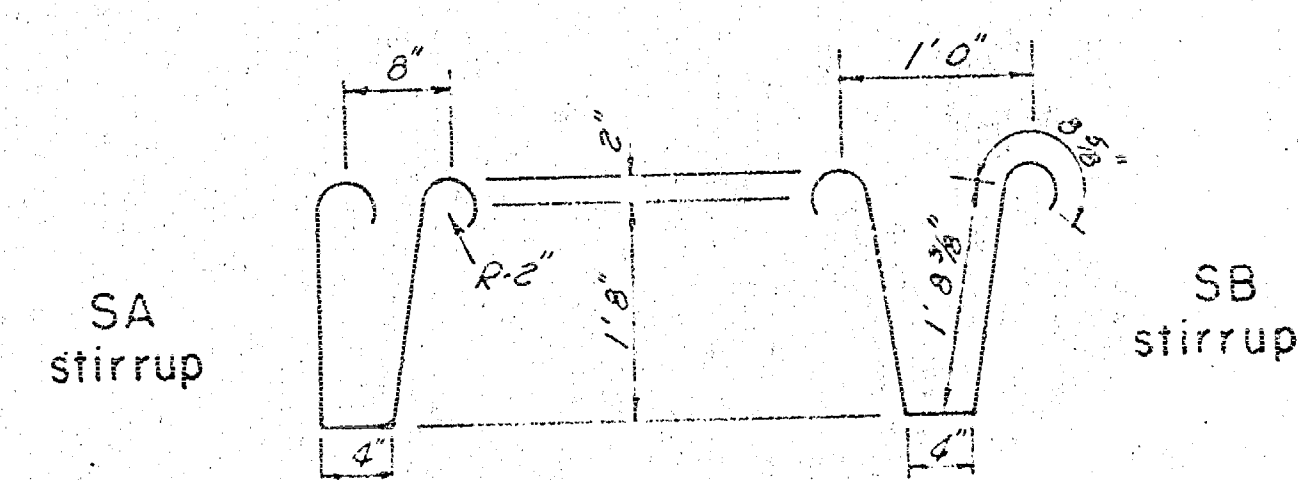
PIER SECTION



WING PLAN

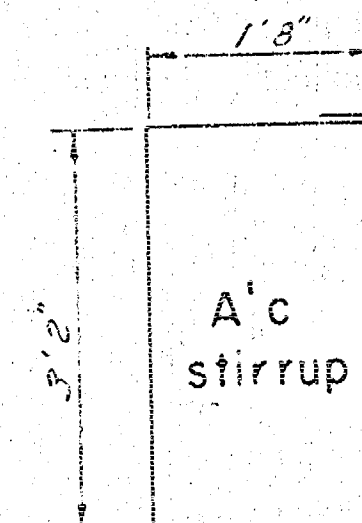


C'a bar

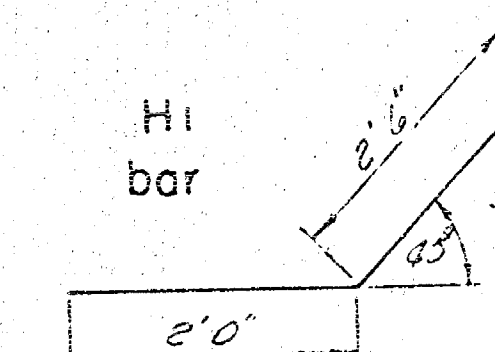


SA stirrup

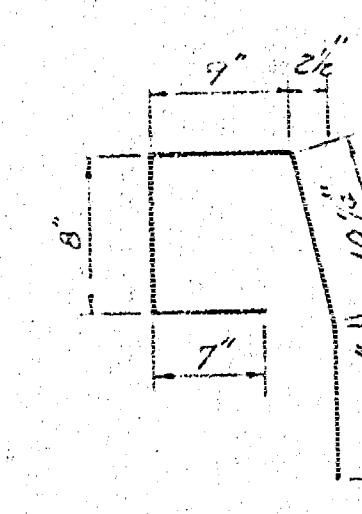
SB stirrup



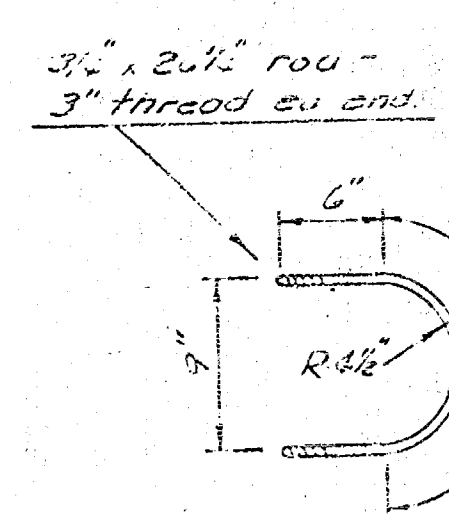
A'c stirrup



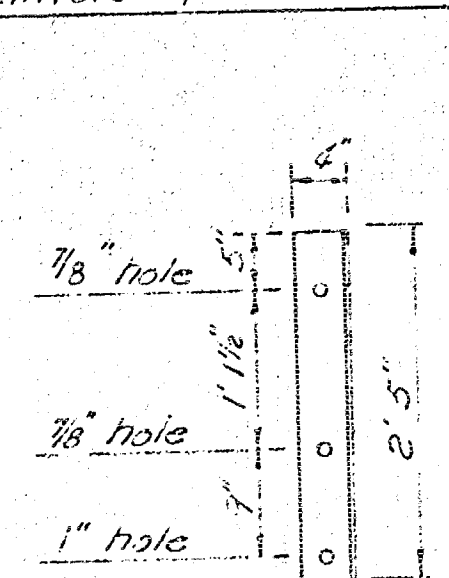
H1 bar



P bar



HANDRAIL ANCHOR BOLT



RAILING POST

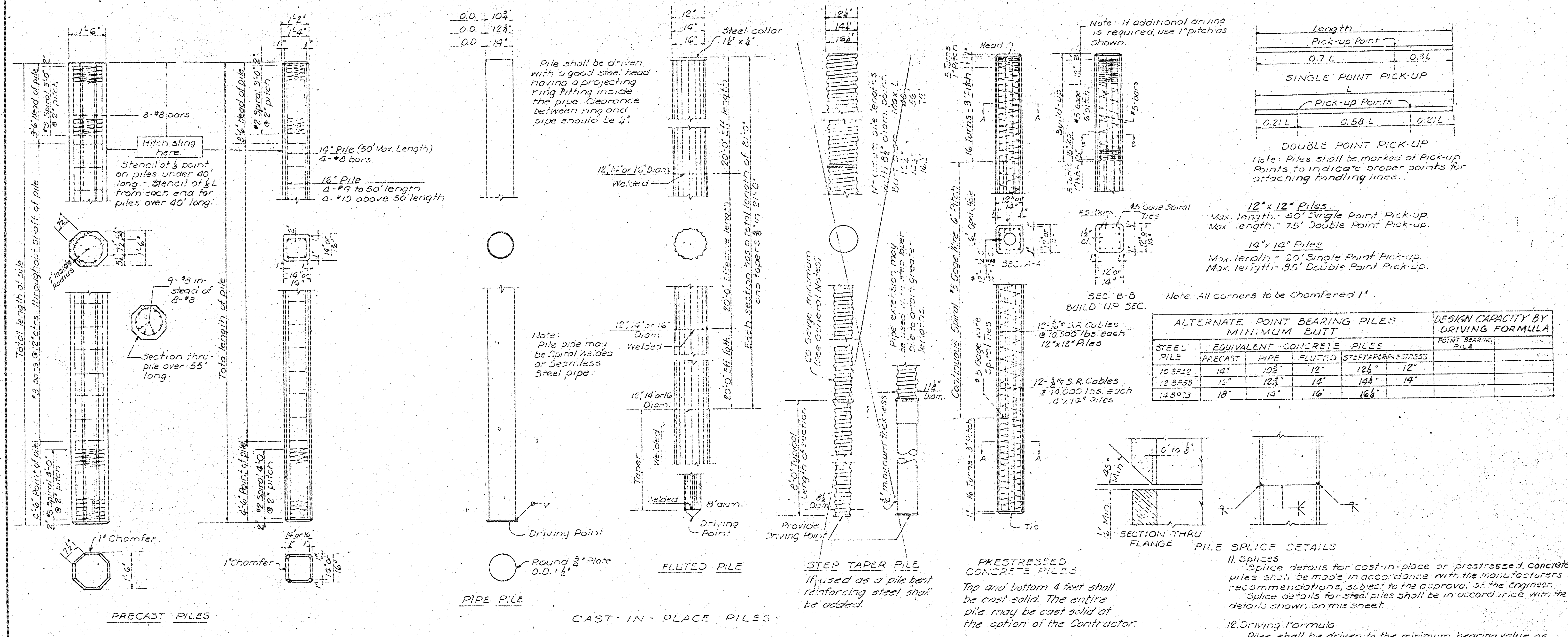
S. 22012 & 30' 0"										SUMMARY OF QUANTITIES										Metal Handrail																														
BAR	A1	A2	A3	A4	A5	A6	A7	A8	A9	C1	C2	C3	C4	D1	E1	E2	F1	G1	H1	H2	I1	I2	J1	J2	K1	K2	L1	L2	THRO																					
NO.	4	6	102	352	72	9	27	4	20	6	18	34	18	80	9	8	10	8	4	2	246	24	6	24	6	24	6	24	6																					
SIZE	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4																					
LENGTH	30' 8"	23' 0"	10' 8"	37' 5"	17' 0"	15' 8"	38' 0"	27' 3"	27' 5"	33' 4"	48' 2"	38' 0"	27' 5"	29' 4"	42' 2"	38' 0"	27' 5"	27' 5"	16' 4"	4' 8"	0' 0"	37' 0"	38' 0"	3' 6"	28' 3"	3' 6"	28' 3"	3' 6"	28' 3"																					
Concrete	Class H										241.8 Cu. Yds.										Deep Beam Guardrail																													
																					364 Lin. Ft.										364 Lin. Ft.																			
																					60 Ea.										50 Ea.																			
																															Guardrail Ends										4 ea.									

RE CONC. MODIFIED T-BEAM BRIDGE
AUXILIARY DETAILS
BRIDGE NO. 604-26-1783

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

REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
	3/8" = 1'	MD	MD	C.J.F.	5 of 6
	DATE	8-57	Jan 57	8-57	
	PLANFILE		TOTAL SHEETS		

UP. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	KANSAS		195		



ALTERNATE POINT BEARING PILES MINIMUM BUILT					DESIGN CAPACITY BY DRIVING FORMULA	
STEEL PILE	PRECAST	PIPE	FLUTED	STEEL PIPE	STEEL PILE	
10 S225	14"	10 3/4"	12"	12 1/2"	12"	
12 S255	15"	12 3/4"	14"	14 1/2"	14"	
14 S275	16"	14"	16"	16 1/2"	16"	

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 drawing 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" 4000 p.s.i. Concrete for prestressed piles shall be Class AAA, 4000 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 59.910 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/or 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 and steel collar - SAE 1010 classification for cold drawn steel.
2. Spiral welded steel - ASTM designation A252, Grade 2 steel, fusion welded spiral seam steel pipe.
3. Seamless steel pipe - ASTM A252, welded and seamless steel pipe.
4. Corrugated steel shell - SAE 1000.
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.

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 6" minimum thickness. Driving points shall be mill welded to the pile shell. Driving points shall be either hot pressed steel meeting the requirements of SAE 1000 for forged steel, or cast steel meeting the requirements of ASTM A7-53T. Steel piles shall have a square cut end only. No driving point 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).

11. **Splices**
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.

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**
Motorized 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.

STATE HIGHWAY COMMISSION OF KANSAS					
STANDARD PILE DETAILS					
SHEET NO.	OF	SCALE	APP'D	QUANTITIES	TRACES
DESIGNED		DETAILED		QUANTITIES	TRACES
DRAWN BY		DETAILS		QUANTITIES	TRACES