

STATE OF KANSAS
STATE HIGHWAY COMMISSION

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY

SEDGWICK CO.

K 96

BRIDGE ONLY

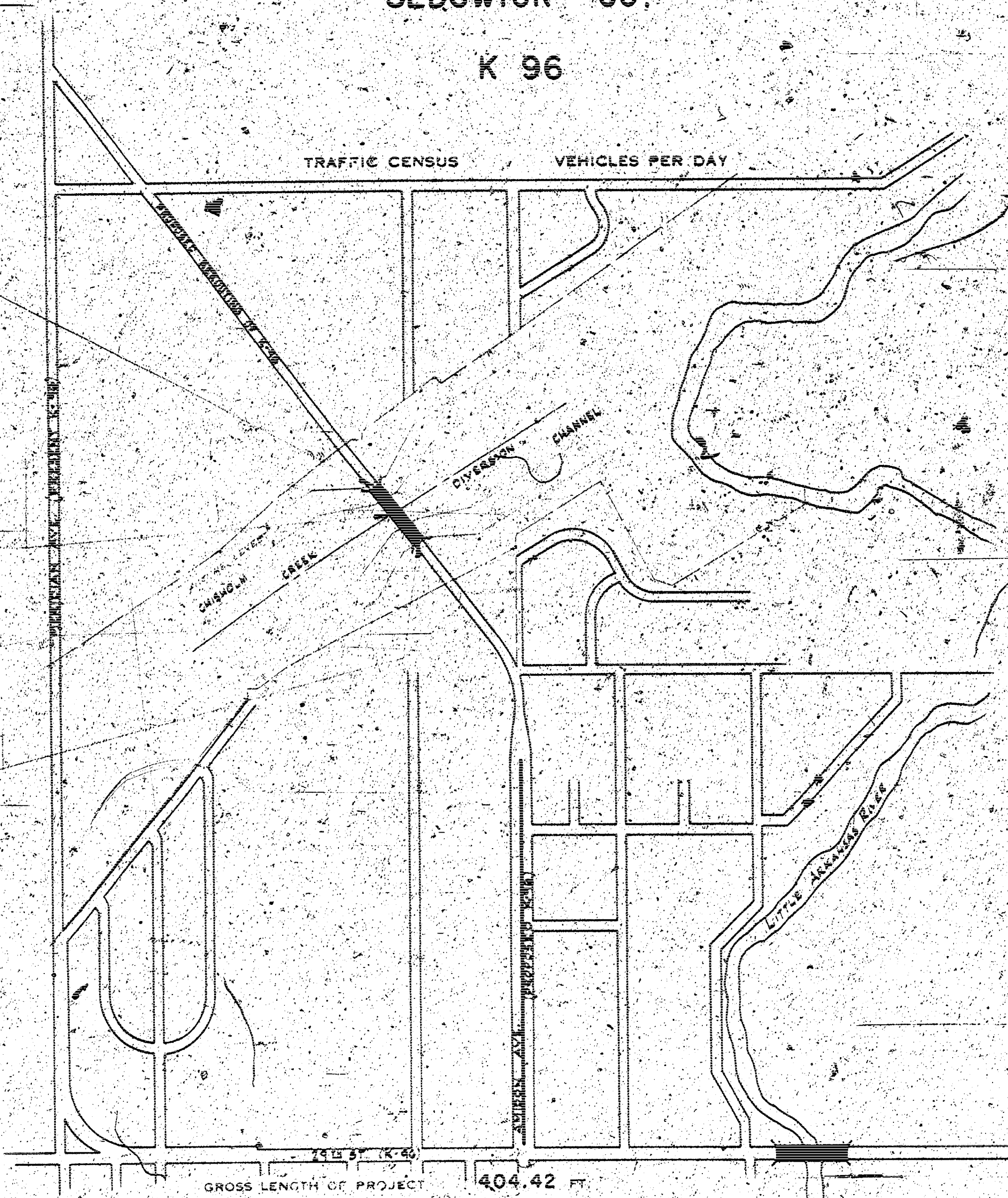
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Sta. 40+18.10 END Proj. 96-87 K 5020 (2)

Sta. 36+15.89 Construct Br. No. 96-87-27.6
54'-9"-59.58'-3"-54'-9" Cont. Prestressed Conc.
Girder Spans, Pile Bent Type Piers & Abuts.
28'-0" Roadway.

Sta. 36+13.68 BEGIN Proj. 96-87 K 5020 (2)



CONVENTIONAL SIGNS

COUNTY LINE	RETAINING WALL
CITY, VILLAGE, OR BOROUGH	BASE OF SURVEY LINE
STATE OR NATIONAL LINE	LEVEE
TOWNSHIP LINE	COVERTS
SECTION LINE	DRAINAGE
GRANT LINE	TRUCK STOP
FENCE LINE	POWER LINE
GUARD FENCE	TELEPHONE OR TELEGRAPH LINE
UNFENCED PROPERTY	MARSH
RIGHT OF WAY LINE	HEDGE
TRAVELLED WAY	LOGS
RAILROADS	GRADE ELEVATION

GROSS LENGTH OF PROJECT 404.42 FT.

EXCEPTIONS 00.00

ADDITIONS 00.00

NET LENGTH OF PROJECT 404.42 FT. 0.076 MILES

NET LENGTH OF BRIDGE 404.42 FT. 0.076 MILES

NET LENGTH OF ROAD 00.00 FT. 0.000 MILES

SCALE 1"=10' HORIZ.

WICHITA (SAMPLE SIGN)

PLANS PREPARED BY:

R. S. DELAMATER
Consulting Engineer
Wichita, Kansas

DATE November 1955

RECORD FOR APPROVAL DATE

ENGINEER OF DESIGN
STATE HIGHWAY COMMISSION OF KANSAS

APPROVED DATE

STATE HIGHWAY ENGINEER
STATE HIGHWAY COMMISSION OF KANSAS

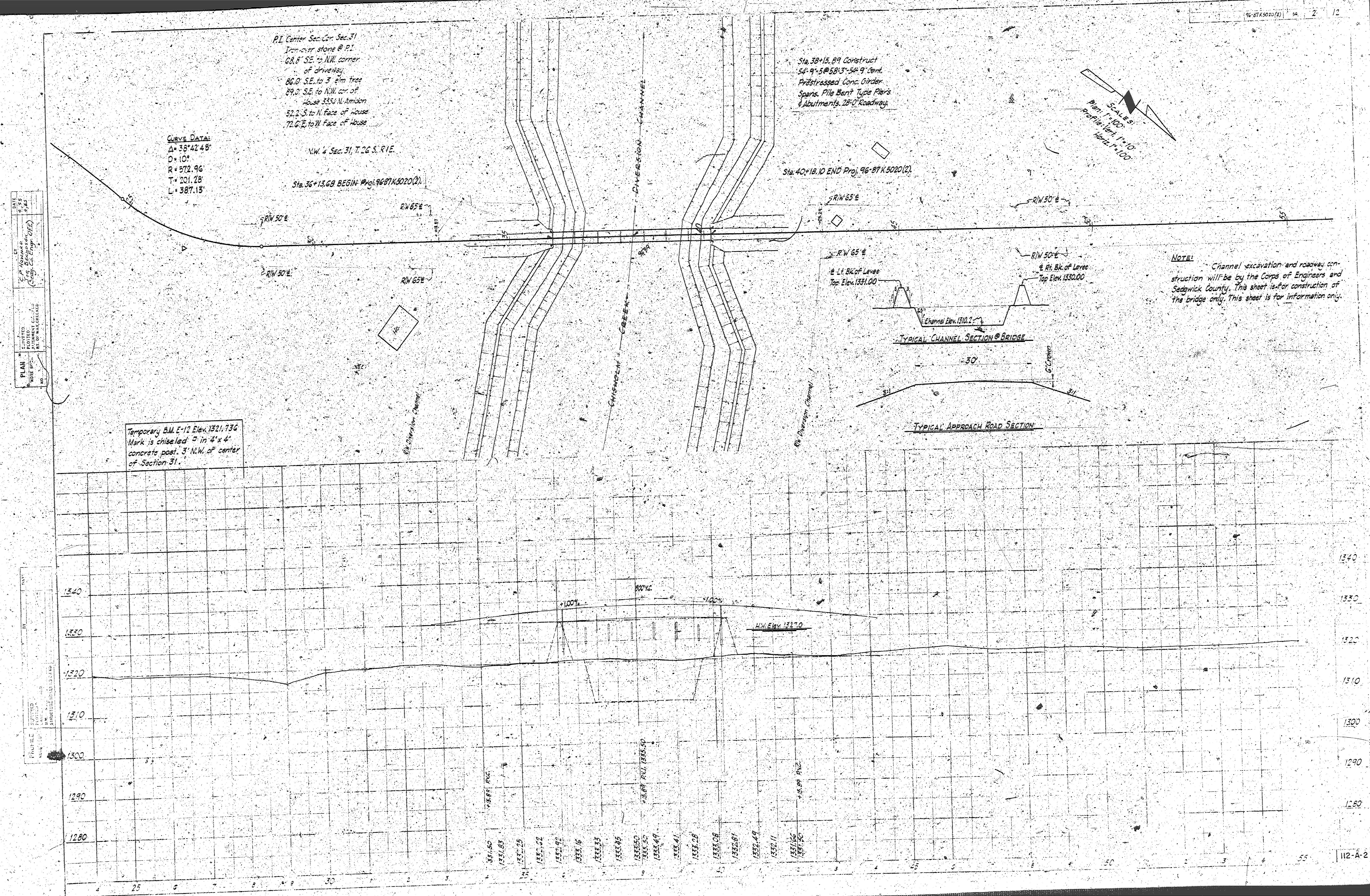
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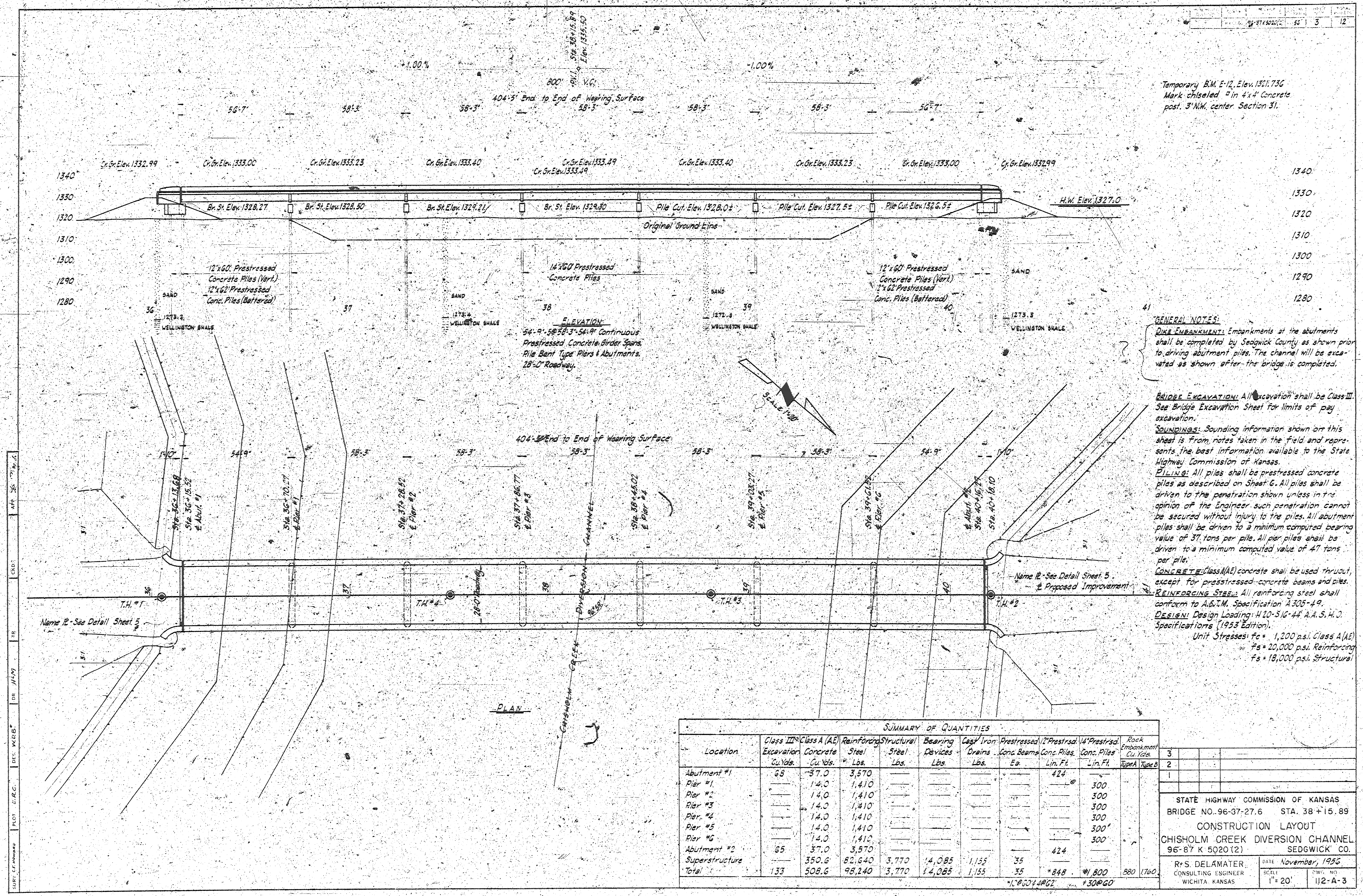
ENGINEER
BUREAU OF PUBLIC ROADS
DEPARTMENT OF COMMERCE

APPROVED DATE

DISTRICT ENGINEER
BUREAU OF PUBLIC ROADS
DEPARTMENT OF COMMERCE

AMIDON & CHANNEL 'B'
3 SHEETS





Temporary B.M. E-12, Elev. 1321.736
Mark chiseled "in 4x4" concrete
post, 3' NW, center Section 31.

GENERAL NOTES:
1. **EMBANKMENTS:** Embankments at the abutments shall be completed by Sedgwick County as shown prior to driving abutment piles. The channel will be excavated as shown after the bridge is completed.

2. **BRIDGE EXCAVATION:** All excavation shall be Class III. See Bridge Excavation Sheet for limits of pay excavation.

3. **SOUNDINGS:** Sounding information shown on this sheet is from notes taken in the field and represents the best information available to the State Highway Commission of Kansas.

4. **PILING:** All piles shall be prestressed concrete piles as described on Sheet 6. All piles shall be driven to the penetration shown unless in the opinion of the Engineer such penetration cannot be secured without injury to the piles. All abutment piles shall be driven to a minimum computed bearing value of 37 tons per pile. All pier piles shall be driven to a minimum computed value of 47 tons per pile.

5. **CONCRETE:** Class A(2) concrete shall be used thruout, except for prestressed concrete beams and piles.

6. **REINFORCING STEEL:** All reinforcing steel shall conform to A.S.T.M. Specification A305-49.

7. **DESIGN:** Design Loading: H 20-S16-44 A.A.S.H.O. Specifications (1953 Edition).

Unit Stresses: $f_c = 1,200$ psi. Class A(2)

$f_s = 20,000$ psi. Reinforcing

$f_s = 18,000$ psi. Structural

SUMMARY OF QUANTITIES										
Location	Class III	Class A(2)	Reinforcing	Structural	Bearing	Cast Iron	Prestressed	Prestressed	Prestressed	Rock
	Excavation	Concrete	Steel	Steel	Devices	Drains	Conc. Beams	Conc. Piles	Conc. Piles	Embankment
	Cu Yds.	Cu Yds.	Lbs.	Lbs.	Lbs.	Lbs.	Ea.	Lin. Ft.	Lin. Ft.	Cu Yds.
Abutment #1	68	37.0	3,570					424		
Pier #1		14.0	1,410						300	
Pier #2		14.0	1,410						300	
Pier #3		14.0	1,410						300	
Pier #4		14.0	1,410						300	
Pier #5		14.0	1,410						300	
Pier #6		14.0	1,410						300	
Abutment #2	68	37.0	3,570					424		
Superstructure		350.6	82,640	3,770	14,085	1,155	35			
Total	133	508.6	98,240	3,770	14,085	1,155	35	848	1,800	880

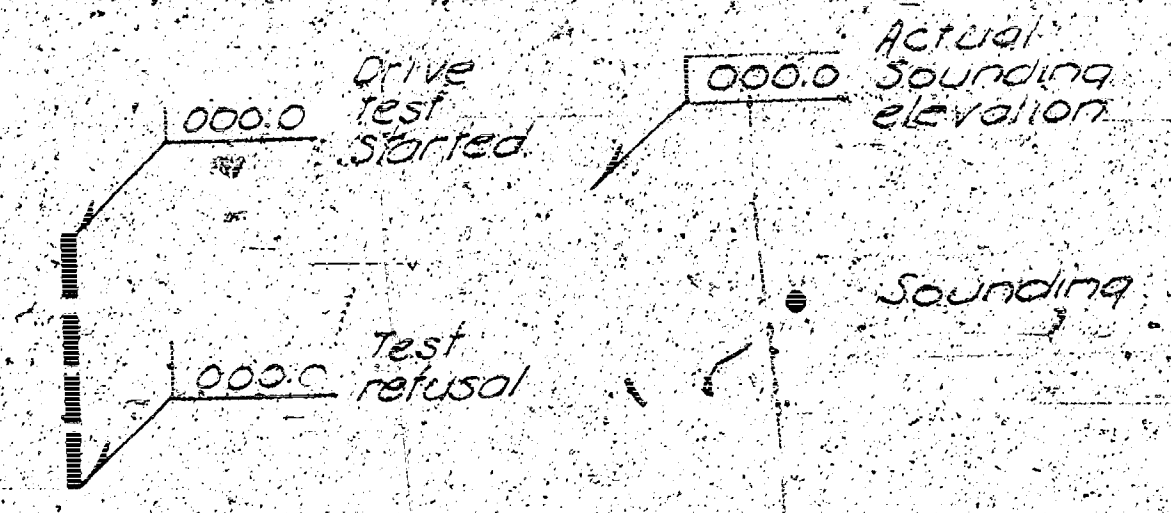
STATE HIGHWAY COMMISSION OF KANSAS
BRIDGE NO. 96-07-27.6 STA. 38+15.89
CONSTRUCTION LAYOUT
CHISHOLM CREEK DIVERSION CHANNEL
96-07 K 5020(2) SEDGWICK CO.
R+S DELAMATER, CONSULTING ENGINEER
WICHITA, KANSAS
DATE November, 1956
SCALE 1" = 20'
DWG. NO. 112-A-3



GEOLOGIC PROFILE

LEGEND

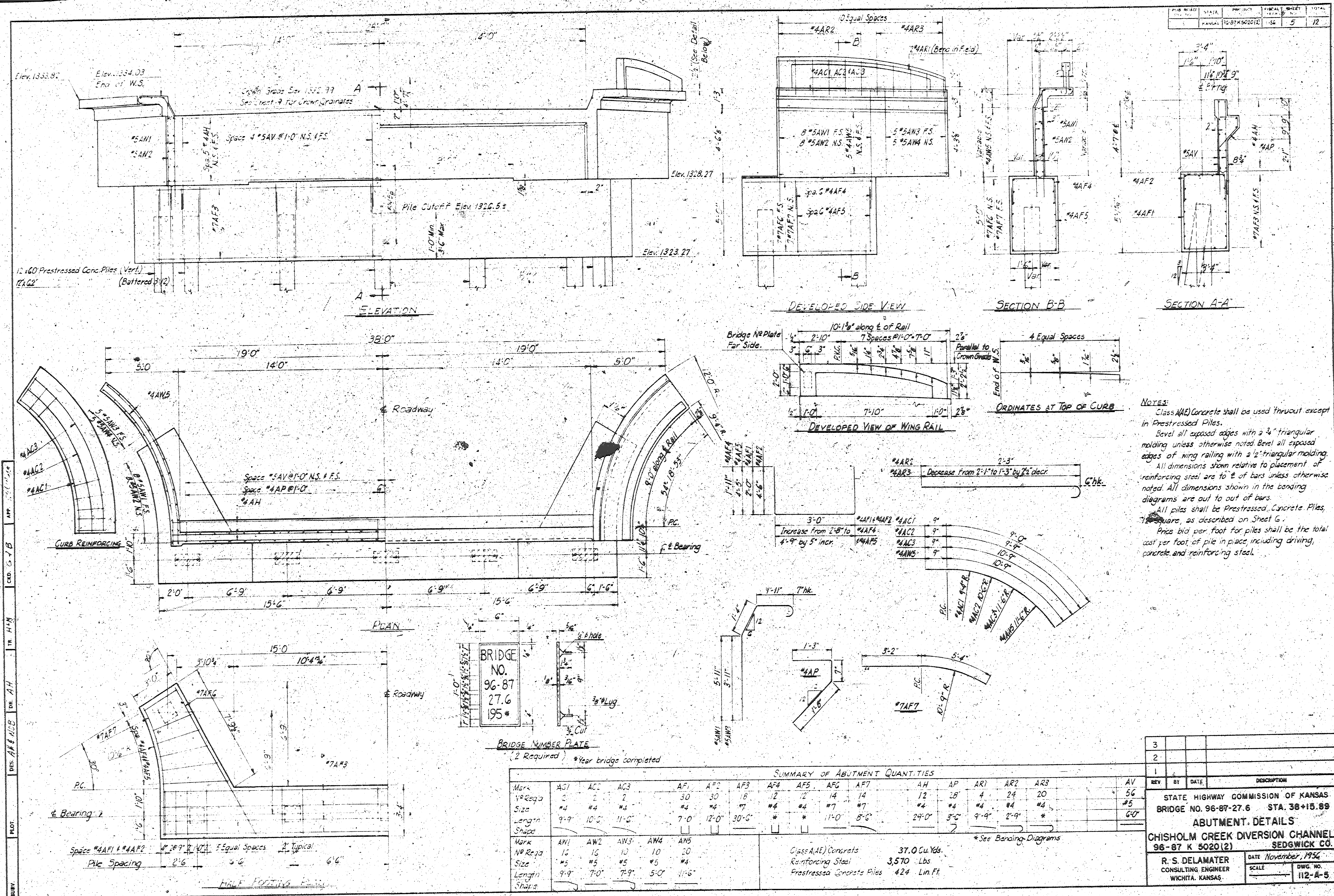
	Sand & gravel		Silt/clay & gravel
	Silty sand		Shale
	Limy shale		Shale & gypsum stringers



NOTE
 The soundings shown on these plans are taken from notes obtained in the field and represent the best information available to the Kansas Highway Commission.
 The logs of these soundings are in the files of the State Highway Commission of Kansas and are available at their offices at Topeka, Kansas for inspection by interested and qualified bidders.

Scale 1" = 20 ft. Horiz. 1" = 20 ft. Vert.

STATE HIGHWAY COMMISSION OF KANSAS		STA. 38+15.89
BR. NO. 96-87-27.6		
ENGINEERING GEOLOGY		
CHISHOLM CREEK		
DIVERSION CHANNEL		
PROJ. 96-87-K-5020(2)		SEDGWICK CO.
SHEET NO.	SCALE	APP'D
DESIGNED	DETAILED	QUANTITIES
DESIGN CK.	DETAIL CK.	TRACED



PIE NO.	DATE	REV.	BY	CHK.	TOTAL
1	10/21/56	1	SS	5	12

NOTES:
 Class A(AC) Concrete shall be used thruout except in Prestressed Piles.
 Bevel all exposed edges with a 3/4" triangular molding unless otherwise noted. Bevel all exposed edges of wing railing with a 1/2" triangular molding.
 All dimensions shown relative to placement of reinforcing steel are to E of bars unless otherwise noted. All dimensions shown in the bending diagrams are out to out of bars.
 All piles shall be Prestressed Concrete Piles, 12" square, as described on Sheet G.
 Price bid per foot for piles shall be the total cost per foot of pile in place, including driving, concrete and reinforcing steel.

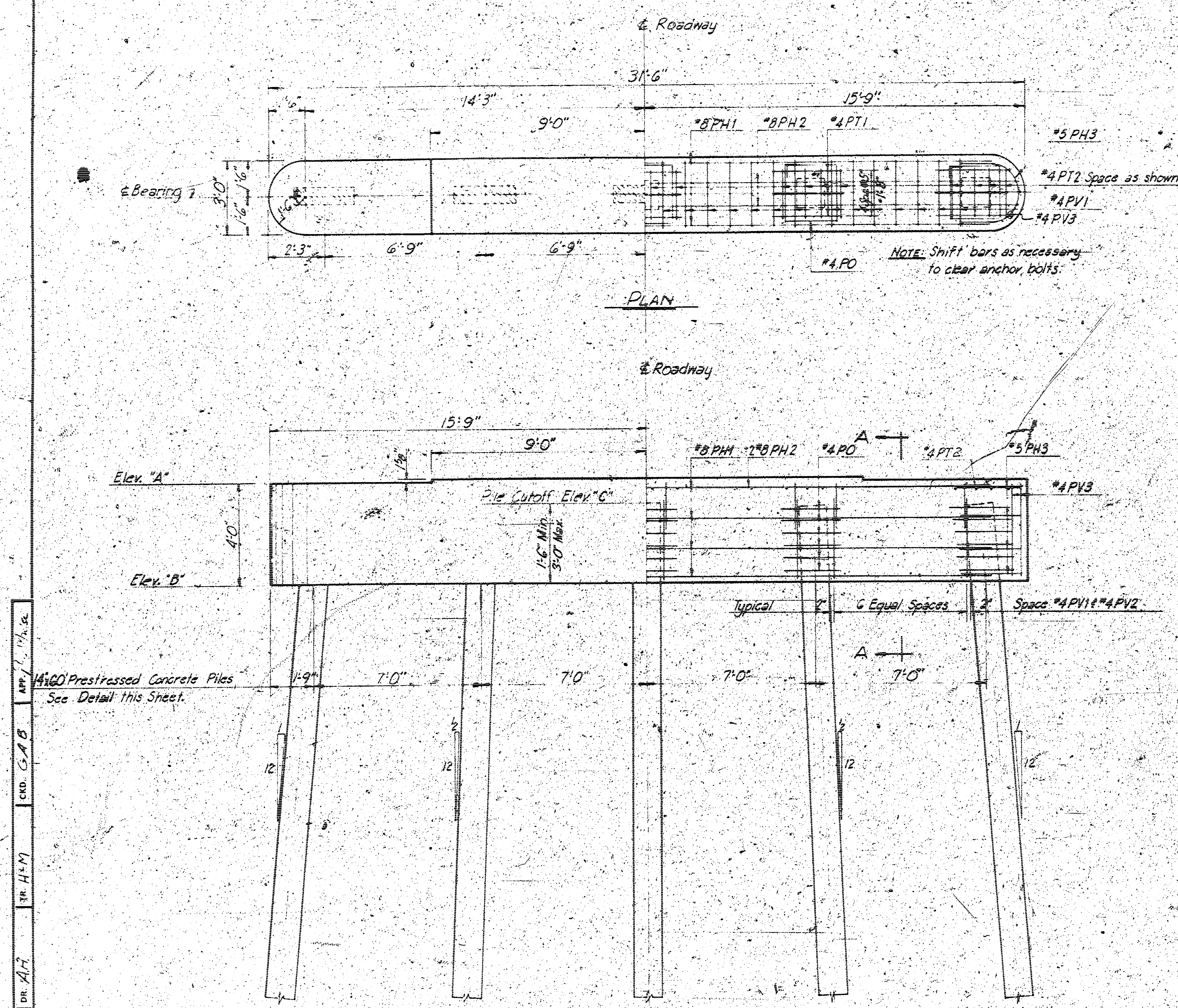
SUMMARY OF ABUTMENT QUANTITIES														
Mark	AC1	AC2	AC3	AF1	AF2	AF3	AF4	AF5	AF6	AF7	AF8	AF9	AF10	AF11
Size	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4	#4
Length	9'-9"	10'-5"	11'-5"	7'-0"	12'-0"	30'-5"	*	*	11'-0"	8'-8"	29'-0"	3'-0"	9'-9"	2'-9"
Shape														
Mark	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8	AW9	AW10	AW11	AW12	AW13	AW14
Size	#5	#5	#5	#5	#5	#5	#5	#5	#5	#5	#5	#5	#5	#5
Length	9'-9"	7'-0"	7'-9"	5'-0"	11'-8"									
Shape														

REV	BY	DATE	DESCRIPTION
3			
2			
1			

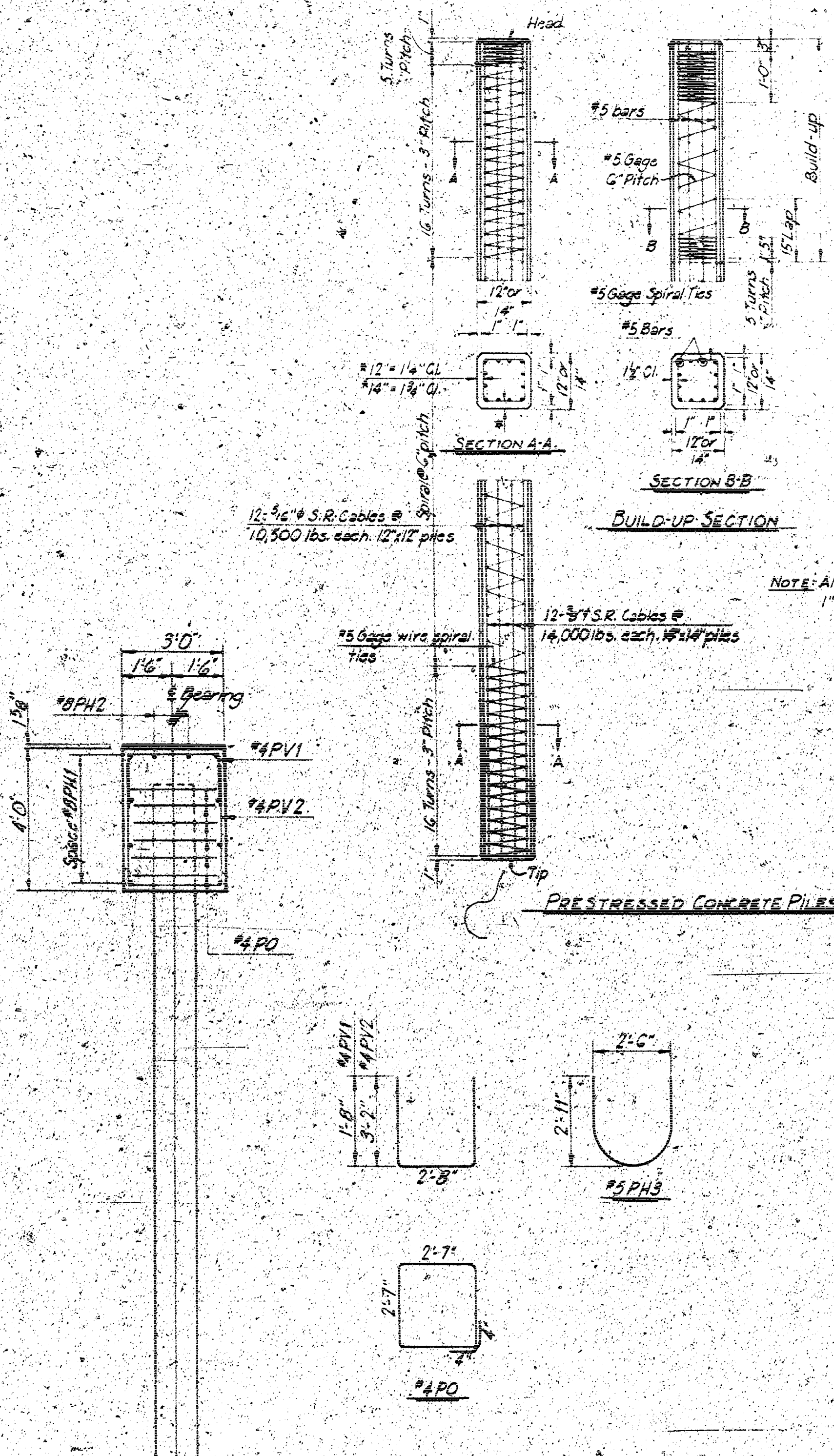
STATE HIGHWAY COMMISSION OF KANSAS
 BRIDGE NO. 96-87-27.6 STA. 38+15.89
 ABUTMENT DETAILS
 CHISHOLM CREEK DIVERSION CHANNEL
 96-87 K 5020(2) SEDGWICK CO.
 R. S. DELAMATER
 CONSULTING ENGINEER
 WICHITA, KANSAS.
 DATE November, 1956
 SCALE DWG. NO.
 112-A-5

PUB ROAD TRV 123	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOT SHEET
	KANSAS	50-81X5020(2)	56	6	12

NOTE: If additional driving is required, use 1" pitch as shown.



ELEVATION



SECTION A-A

ELEVATION TABLE				SUMMARY OF PER QUANTITIES									
Pier No	Elev. A'	Elev. B	Elev. C	Mark	PH1	PH2	PH3	P0	PV1	PV2	PV3	PT1	PT2
1	1325.50	1324.50	1327.50	Nº Reqd	5	5	5	5	5	5	5	5	5
2	1325.50	1325.51	1328.51	Size	2"	2"	2"	4"	2"	2"	2"	2"	2"
3	1325.50	1325.50	1328.50	Length	28'-6"	31'-0"	7'-8"	11'-0"	5'-0"	9'-0"	3'-6"	3'-0"	2'-0"
4	1325.50	1325.50	1328.50	Shape				□	□	□	□		
5	1325.51	1325.51	1328.51										
6	1328.51	1324.50	1327.50										

Class A[4] Concrete	14.0	Cu Yds.
Reinforcing Steel	1410	Lbs.
Prestressed Concrete Piles	300	Lin Ft.

NOTES:

Class(AI) concrete shall be used throughout except for Prestressed Piles.

Bevel all exposed edges with a $\frac{3}{8}$ " triangular mauling unless otherwise noted.

All dimensions shown relative to placement of reinforcing steel are to $\frac{1}{2}$ of bars unless otherwise noted. All dimensions shown in the bending diagrams are out to out of bars.

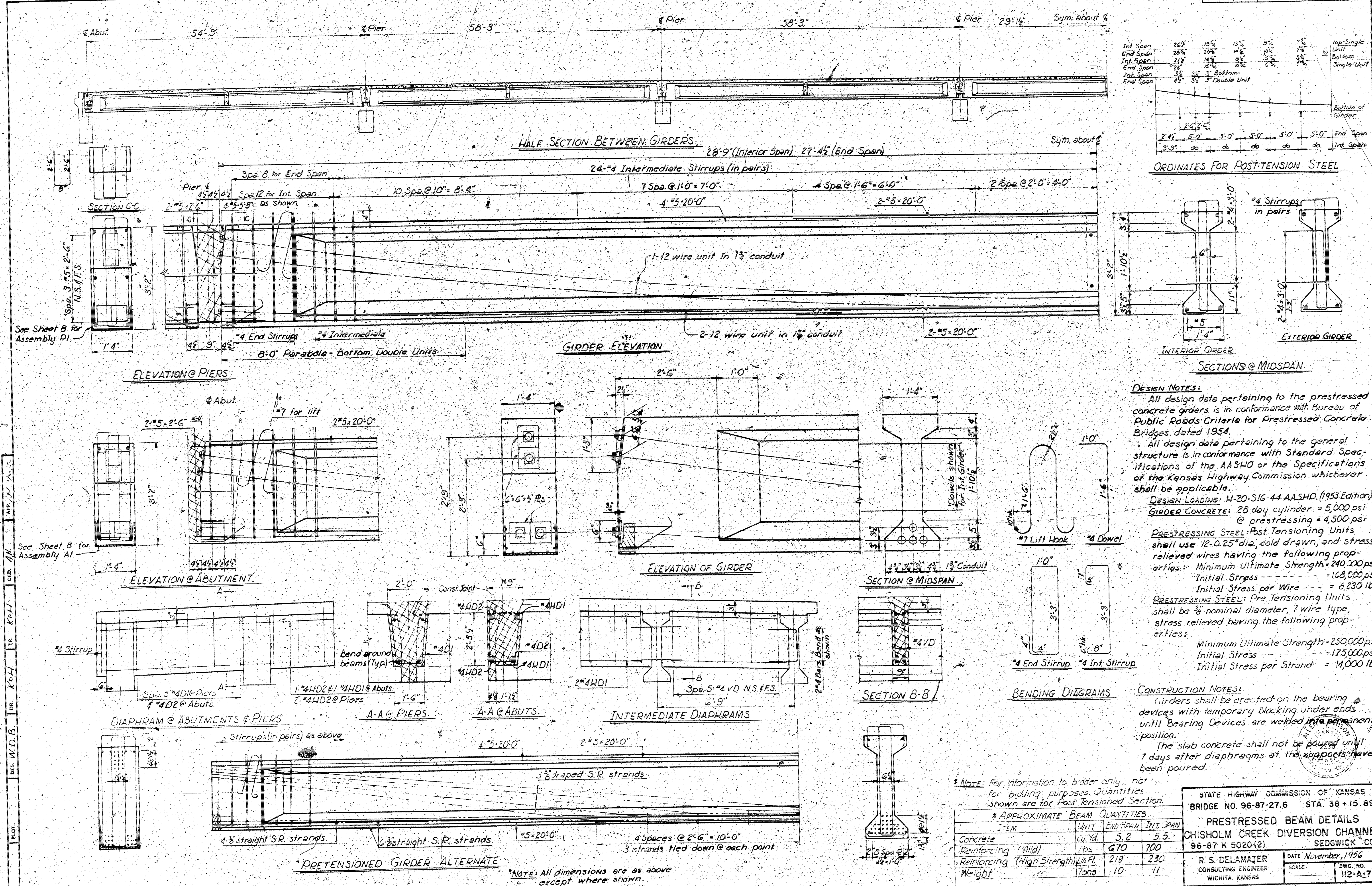
All piles shall be Prestressed Concrete Piles, "A" square, as described and detailed this Sheet.

Price bid per foot for piles shall be the total cost per foot of pile in place, including driving, concrete and reinforcing steel.

All concrete in Prestressed Piles shall be Class AAA. Splice details for Prestressed Piles shall be in accordance with the manufacturer's recommendations, subject to approval of the Engineer.

3					
2					
1					
REV.	BY	DATE	DESCRIPTION		
			STATE HIGHWAY COMMISSION OF KANSAS.		
			BRIDGE NO. 96-87-27.6		STA. 38+15.89
			PIER DETAILS		
			CHISHOLM CREEK DIVERSION CHANNEL		
			96-87 K 5020 (2)		SEDBOWICK, MO
			R. S. DELAMATER		
			CONSULTING ENGINEER		
			WICHITA, KANSAS		
			DATE	November, 1966	
			SCALE	DWG. NO.	
				112-A-6	

PUB. ROAD DIV. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	KANSAS	9-87K50202	1956	7	12



ORDINATES FOR POST-TENSION STEEL

