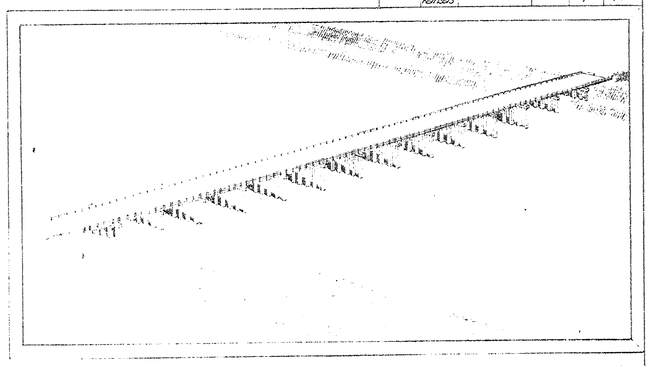
Pub. Rd. Div. No.	State	Project No.	Fiscal Year	Sheet No.	Total Sheets
	Kansas			1	10

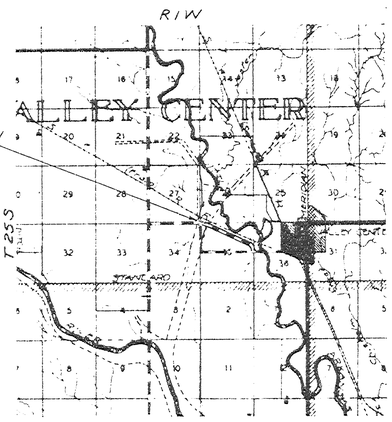
STATE OF KANSAS
STATE HIGHWAY COMMISSION
SEDGWICK COUNTY

PLAN AND PROFILE



INDEX OF SHEETS

Sheet No.1 Title Sheet
Sheet No.2 Topography
Sheet No.3 Plan & Profile
Sheet No.4 Plan & Profile
Sheet No.5 Construction Layout
Sheet No.6 Location of Abutments in Levees
Sheet No.7 General Details
Sheet No.8 Auxiliary Details
Sheet No.9 Reinforcing Details
Sheet No.10 Piling Details



CONVENTIONAL SIGNS

COUNTY LINE --------
SECTION LINE----------
WIRE FENCE -------
HEDGE ROW -------
RAILROAD ----------
SURVEY LINE--------
RIGHT OF WAY-------
TELEPHONE -------
POWER POLE-------
TRAVELED WAY------
CITY LIMITS ----------
TOWNSHIP BOUNDRY--

GROSS LENGTH OF PROJECT	532.75 FT
EXCEPTIONS	NONE
ADDITIONS	NONE
NET LENGTH OF PROJECT	532.75 FT
NET LENGTH OF BRIDGES	532.75 FT.

PLANS PREPARED BY.

Rupert S. Kirk
COUNTY ENGINEER
DATE.

APPROVED.

COUNTY COMMISSIONER
DATE.

RECOMMENDED FOR APPROVAL DATE

ENGINEER OF SECONDARY ROADS
STATE HIGHWAY COMMISSION OF KANSAS

RECOMMENDED FOR APPROVAL DATE

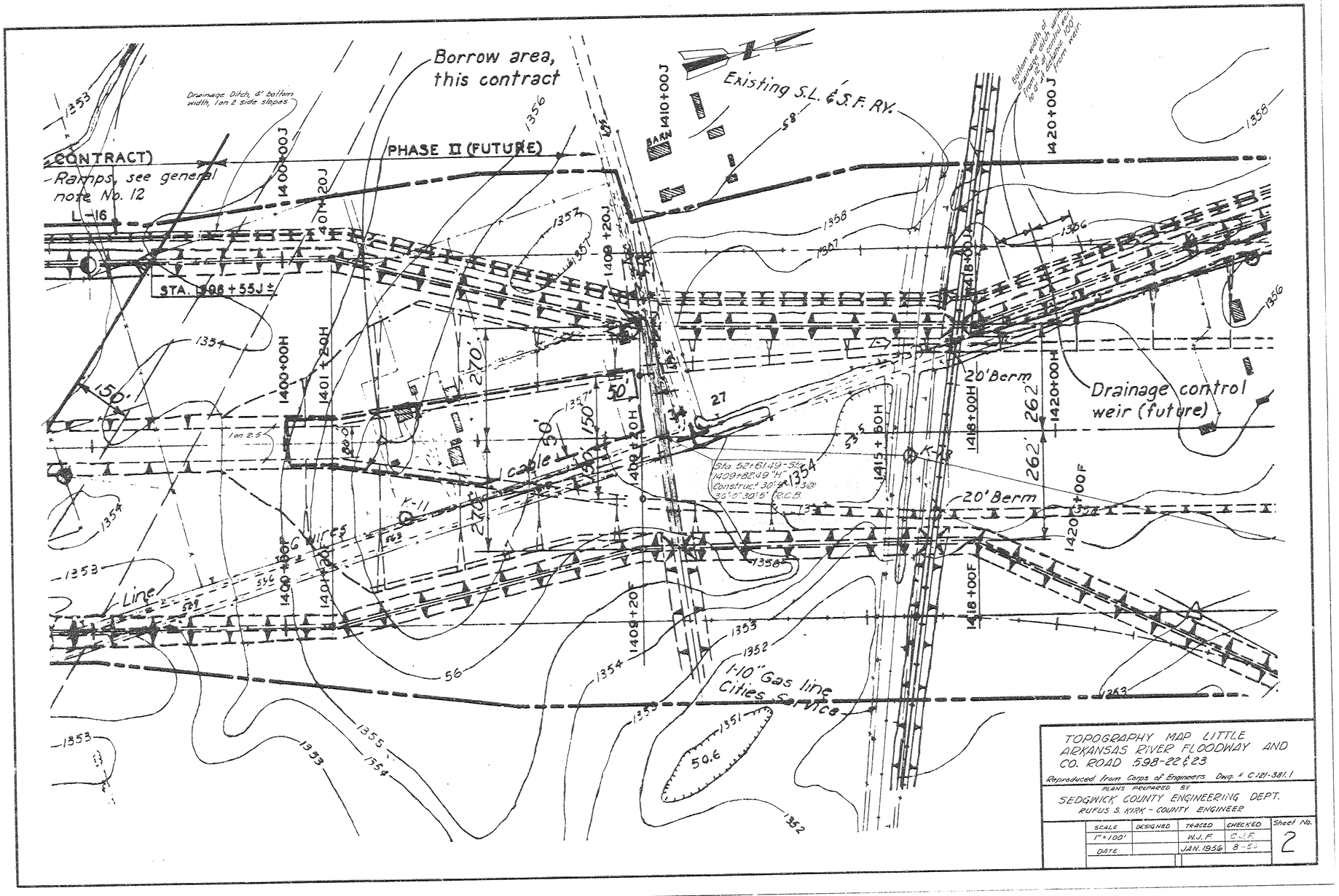
DISTRICT ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY

APPROVED DATE

STATE HIGHWAY ENGINEER
STATE HIGHWAY COMMISSION OF KANSAS

APPROVED DATE

DIVISION ENGINEER
PUBLIC ROADS ADMINISTRATION
FEDERAL WORKS AGENCY



TOPOGRAPHY MAP LITTLE ARKANSAS RIVER FLOODWAY AND CO. ROAD 598-22 & 23

Reproduced from Corps of Engineers Dwg. # C 121-381.1

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

SCALE	DESIGNED	TRACED	CHECKED	Sheet No.
1" = 100'		W.J.F.	C.M.F.	2
DATE		JAN. 1956	8-5-56	

PLAN
NOTE BOOK NO.

SURVEYED BY
PLOTTED BY
GRADES CHECKED BY
STRUCTURE NOTES BY

PROFILE
NOTE BOOK NO.

SURVEYED BY
PLOTTED BY
GRADES CHECKED BY
STRUCTURE NOTES BY

DATE

SEC. 27 - T 25 S - R 1 W
V.C.

From Rd "B11 to Sta 431+21.1
R/W 40' ℄ Both Sides

0+00

13" X 32" C.M.P.

Road "B11

SEC. 34 - V.C.

Entrances

1365
1355
1345

Elev. 1352.2

Special Ditch Rt. & Lt. - Grade 0.3%
16' Bottom - See Cross Sections

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

SEC. 27 - T 25 S - R 1 W
V.C.

Sta 35+59
2 - 93" X 27" X 30' C.M.A.C.

Continental Oil Co. pipeline

Sta 43+21.1
R/W 40' ℄ Both Sides

From Rd "B11 to Sta 43+21.1
R/W 40' ℄ Both Sides

SEC. 34 - T 25 S - R 1 W
V.C.

B.M. "1 - 60.3 m. F.C. west R/W to. east R/W. of R.I. of Curve "1
Elev. 1358.38

R/W 60' ℄ Both Sides

P.I. Sta 47+32.13
2 Fld Control R/W Monument

Fld Control R/W

P.C. Sta 45+45.83
P.C.C. Sta 46+35.24

CURVE DATA
Δ = 3°33'
D = 1°44'
T = 347.09'
R = 3305.53'
L = 693.27'
S.E. = 0.03'/'

Sta 47+58
Install 36" x 109'
C.M.P. Inlet
El. - 1350.68

P.T. Sta 52+38.37

Sta 52+61.49
130'-5" - 13 @ 32'-0" - 30'-5"
Reinforced Concrete - T
Beam Bridge 26'-1" Rdwy.
Metal Handrail - Sta. 1459
+ 82.49 "H"

B.M. "2 - F.C. - R/W monument in
E. R/W Fence at Sec. line
Elev. 1352.43

SEC. 26 - 25S - 1W
V.C.

SEC. 35 - 25S - 1W
V.C.

Fld Control R/W

℄ Fence

℄ Channel "H"

Cont. Found.

Sta 52+61.49
Construct
130'-5" - 13 @ 32'-0" - 30'-5"
Reinforced Concrete - T
Beam Bridge 26'-1" Rdwy.
Metal Handrail - Sta. 1459
+ 82.49 "H"

1375
1365
1355
1345

300' V.C.
600' V.C.
900' V.C.

+ 2.5%
- 1.0%
+ 1.0%

CHW 1393.91

El. 1359.00

El. 1345.35

Special Ditch Rt. & Lt. - Grade 0.3%
See Cross Sections

16' Bottom - See Cross Sections

See "Construction Layout" Sheet No. 5

28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58

Sheet No. 3

PLATE 7 - PLAN-PROFILE O.P.R.R.E. STANDARD
THE FREDERICK POST CO., CHICAGO

PLAN — SUBMITTED / PLOTTED / CORRECT, CHECKED / RE-DRAWN, CHECKED / STRUCTURE SHOWN — NOTE BOOK — NO. — BY — DATE

PROFILE — SUBMITTED / PLOTTED / CORRECT, CHECKED / RE-DRAWN, CHECKED / STRUCTURE SHOWN — NOTE BOOK — NO. — BY — DATE

SEC. 26 - 25S - 1W.
SEC. 35 - 25S - 1W.
Sta 59+07.36
Sta 59+10.88
Sta 59+28.92
R/W 75'¢
Sta 61+28.92
R/W 50'¢ Tangent
Sta 64+28.92
R/W 50'¢
SEC. 35 - 25S - 1W
P.C. Sta 69+06.96
CURVE DATA
Δ = 13°27'
D = 1°00'
T = 675.60'
R = 5729.58'
L = 1345.00'
S = 0.03'/sta
Sta 71+84.71 on Tang.
B.M. #3 - 60d at Sta 0 B.M. in T.P. 80' North of P.I. of Curve #2 - Elev. 1353.92
SEC. 35 - 25S - 1W
R.R. R/W 50'¢
S. L. & S. F. R.R.
R/W 50'¢ Tangent
R/W 50'¢
P.T. Sta 82+51.96
SEC. 35 - 25S - 1W

Sta 59+07.36 PT Sta 59+10.88 PC Sta 59+28.92 PT Sta 61+28.92 PC Sta 64+28.92 PT Sta 64+52 PC Sta 69+06.96 PT Sta 82+51.96 PC Sta 83+00 PT Sta 84+50
El. 1363.10 El. 1362.75 El. 1361.90 El. 1361.90 El. 1362.75 El. 1363.10 El. 1363.20 El. 1353.20 El. 1353.20 El. 1359.40 El. 1359.40 El. 1353.20
-1.07% -3.97% -0.10%
El. 1349.71
Special Ditch Grade - 0.10% (See Cross-Sections)
Sta Cons. Joint
1370 1360 1350 1340
54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86

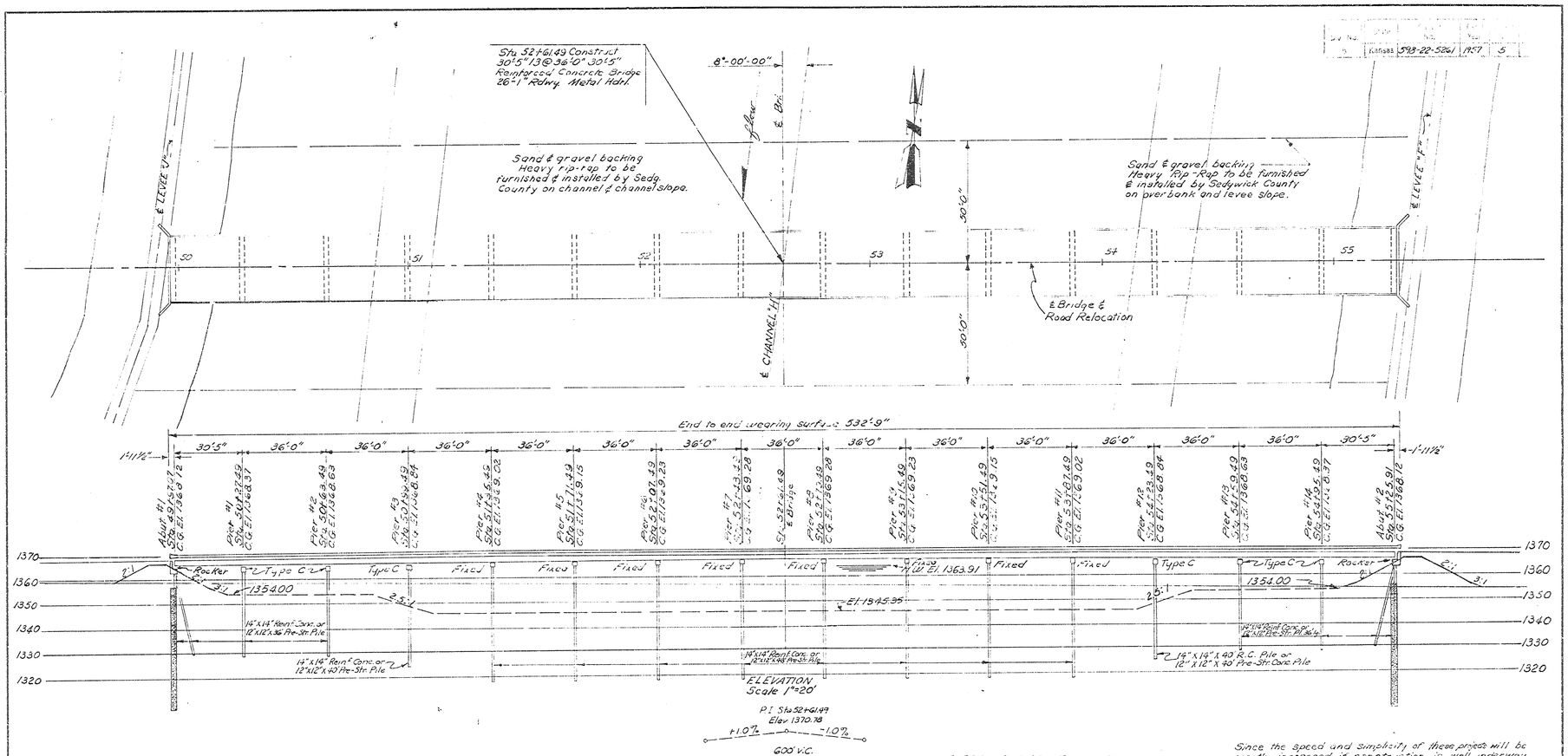
SEC. 35 - 25S - 1W
R.R. R/W 50'¢
S. L. & S. F. R.R.
R/W 50'¢
86 90 95 100
R/W 50'¢
SEC. 35 - 25S - 1W
B.M. #4 - 60d in cor. fc. post 50' South of P.C. of Curve #3 (Sta. 102+63.98) Elev. 1351.28
Sta 102+00 36°-35' C.M.P.
R/W 50'¢
105 110
SEC. 35 - 25S - 1W
R/W 50'¢
Identical Points P.C. Sta 102+63.98
CURVE DATA
Δ = 67°-55'
D = 7°00'
T = 551.23'
R = 818.51'
L = 970.24'
S.E. = 0.10'/'
P.T. Sta 112+33.72
R/W 50'¢
R/W 50'¢
115
P.I. Sta 116+75.39
B.M. #5 - 60d in R/W fc. post 50' Rt. of Sta 109+00 - Elev. 1349.54
B.M. #6 - 60d in R/W fc. cor. post 70' N.W. of E. ¼ cor. Sec. 35, V.C. - Elev. 1347.12

Sta 93+00 PT Sta 93+25
El. 1358.25 El. 1358.25
-0.10% 0.00%
El. 1349.71
Spl. Ditch Gr. - 0.10% - 12' Bottom (See Cross-Sections)
Vertical Curve Std. Eq. L=100'
Sta 102+00 Sta. Eq. Ahead
0.00%
1360 1350 1340
86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115

Sheet No. 4

PLATE 2 - PLAN PROFILE & P.R.A.R.Y. STANDARD
THE FREDERICK POST CO. CHICAGO

Kansas	598-22-5261	1957	5	



FLOODWAY DATA

Top of Levee "F" El. 1366.32
Top of Levee "J" El. 1366.90
Bottom of Channel El. 1345.35
Highwater El. 1363.91
Width of Channel @ Bottom
Side slopes of channel 1 on 2.5
Side slopes of Levees 1 on 3
Width of floodway, ctr. to ctr. of levees 524'
Estimated flow
Estimated Velocity

GENERAL NOTES

Design: According to A.A.S.H.O. Specifications, Edition of 1953 H20-44 Loading; f_s=20,000psi; f'_c=1,200psi.
Soundings: Taken by SEDGWICK COUNTY with ¾" jet.
Piling: Concrete piling to be driven to a computed resistance of 24 tons per pile.
Concrete: Use class A(AE) concrete throuout. Bevel all exposed edges with a ¾" triangular molding.
Forms: Contractor shall use prefabricated metal forms owned by SEDGWICK COUNTY.
Embankment: To be Constructed by SEDGWICK COUNTY or others.

GENERAL CONSTRUCTION NOTES

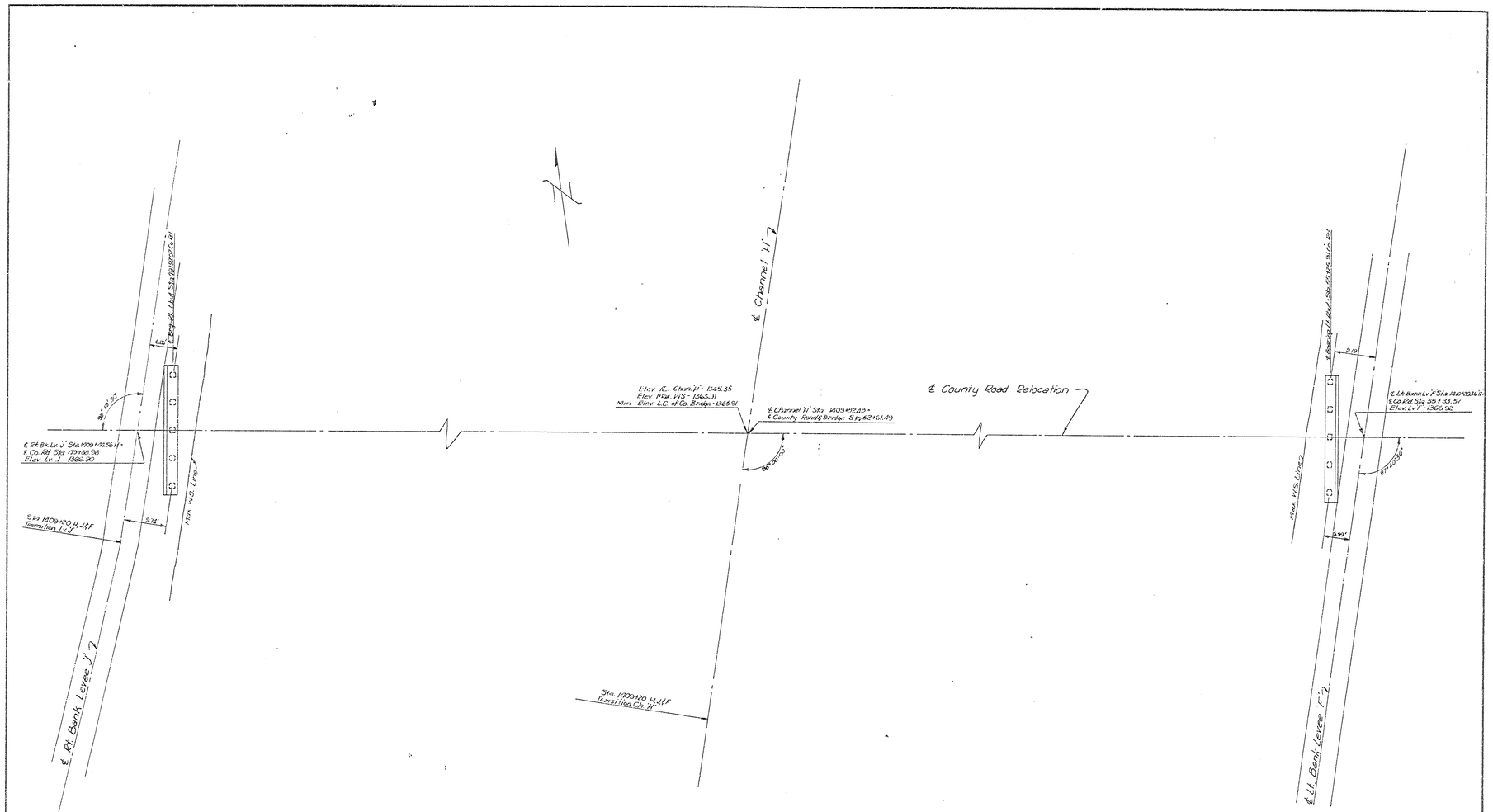
Timber cribbing at centerline of each span on this project will be required.
Two sets of short forms and five sets of long forms are available for these projects. Since the concrete in a full span ahead of any forms to be removed must have attained its design strength before removal of these forms, it is suggested that high early strength cement be used.
Forms for these projects shall be picked up by Contractor at the SEDGWICK COUNTY YARDS, 10.5 Shillovell, Wichita, and returned to this location unless otherwise instructed by the Engineer. (See "Special Provisions" in Specifications & Proposal Booklet.
The wearing surface and all other exposed surfaces of wings, cap, abutments and piling shall be cured and protected in accordance with Section 3043 of the Standard Specifications for State Road & Bridge Construction, Edition of 1955. As an alternate, a curing type curing compound applied immediately after finishing of concrete, and covered with dry burlap, or any suitable material satisfactory to the Engineer in charge, for a minimum of 72 hours may be used.

Since the speed and simplicity of these projects will be greatly increased if construction is well underway before the waterway and levees are constructed, work on framing of piling must start within two weeks and pile driving must start within three weeks after the contract is let. A trench 9'-32' X10' is to be excavated before setting piling and backfilled before any form work for caps proceeds at each pier location in channel way. Excavation and back filling not to be paid for directly, but shall be included in the unit price bid for concrete piling.

CONSTRUCTION LAYOUT
BRIDGE NO. 598-22-5261

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

REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
	1"=20'	CJF	JRG	CJF	5
	DATE	8-15-56	8-20-56	10-22-1956	
	PLANFILE		TOTAL SHEETS 10		



LOCATION OF ABUTMENTS IN LEVEES
SECTIONS 34 & 35-25S-1W

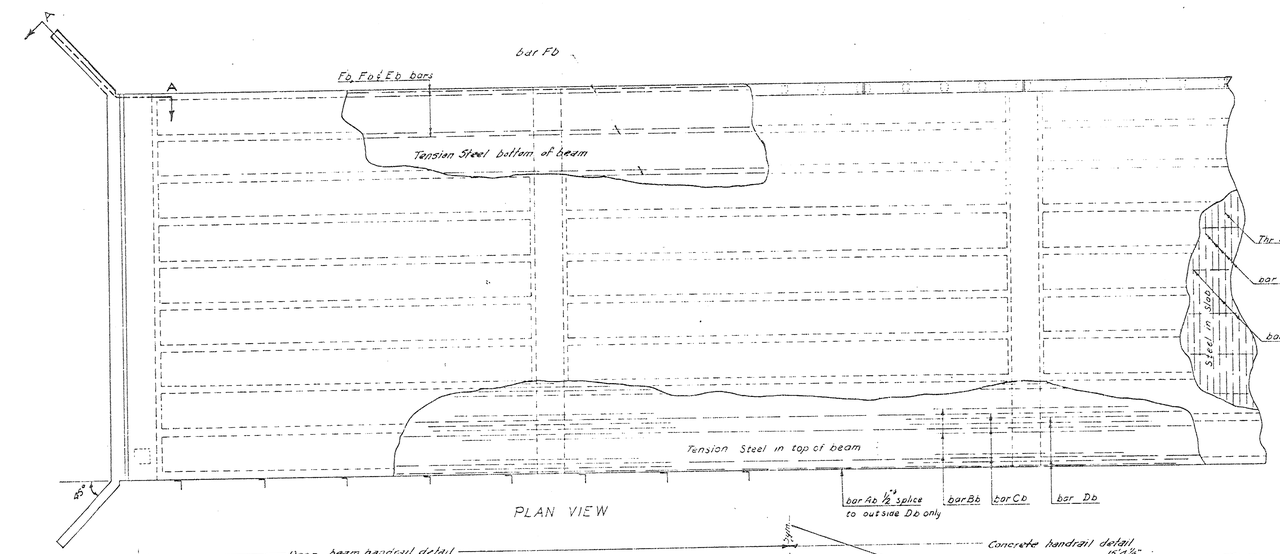
PREPARED BY
SEDGWICK COUNTY ENGINEERING DEPT.
RUFUS S. KIRK — COUNTY ENGINEER

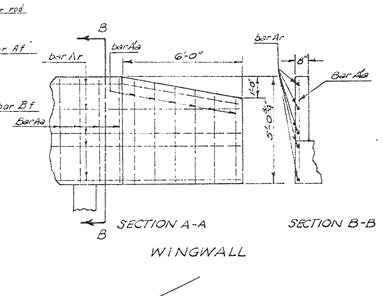
REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
	1" = 10'	M.S.M.	W.J.F.	W.J.F.	6
	DATE	3-56	9-56	9-56	
	PLANFILE		TOTAL SHEETS 10		

598-22&23

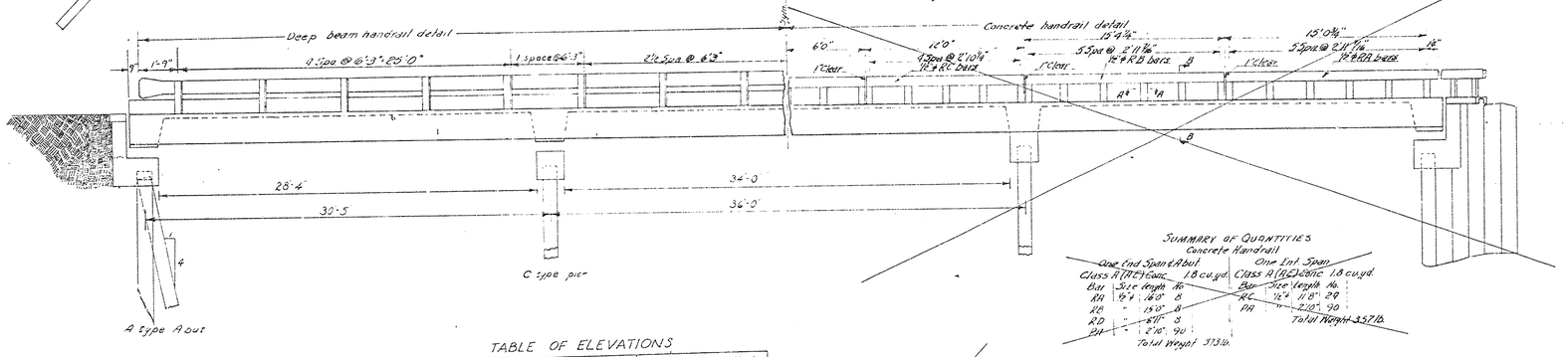
GENERAL NOTES

Design: Designed for H-20-44 loading AASHO specifications f_s=20,000psi, F_c=1,000psi.
Soundings: To be taken by Sedgwick County.
Piling: Concrete piling to be driven to a Calculated resistance of 28 ton.
Old Struct: To be removed by Sedgwick County.
Concrete: Class A(AE) concrete used throughout Barel all exposed edges with a ¾" - 45° molding unless otherwise noted. Forms shall be preformed steel "pans" used as directed by the Engineer in charge.
Guardrail: To be of standard deep beam as shown on Construction Layout.





WINGWALL

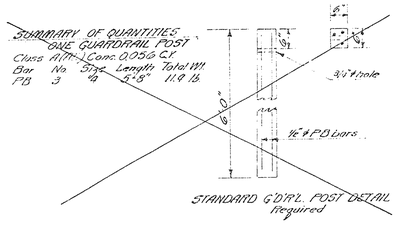


SUMMARY OF QUANTITIES
Concrete Handrail

One End Span & Abut.				One Int. Span			
Class A(AE) Conc. 1.8 cu.yd.				Class A(AE) Conc. 1.8 cu.yd.			
Bar	Size	Length	No.	Bar	Size	Length	No.
AA	1"ϕ	16'0"	8	AC	1"ϕ	11'8"	29
AB	"	15'0"	8	PA		2'10"	90
RD	"	5'11"	9			Total Weight 3571lb.	
PA	"	5'10"	90				
Total Weight 3731lb.							

TABLE OF ELEVATIONS

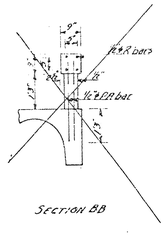
No.	Crown Grade	Bottom of Cap or Abut.
Abutment #1 & 2	El. 1368.12	El. 1362.93
Piers #1 & 4	El. 1368.37	El. 1364.16
Piers #2 & 3	El. 1368.63	El. 1364.42
Piers #3 & 2	El. 1368.84	El. 1364.63
Piers #4 & 1	El. 1369.02	El. 1364.81
Piers #5 & 10	El. 1369.15	El. 1364.94
Piers #6 & 9	El. 1369.23	El. 1365.02
Piers #7 & 8	El. 1369.28	El. 1365.07



SUMMARY OF QUANTITIES
ONE GUARDRAIL POST

Class A(AE) Conc. 0.05 cu.yd.				
Bar	No.	Size	Length	Total Wt.
PB	3	½" ϕ	9'8"	11.9 lb.

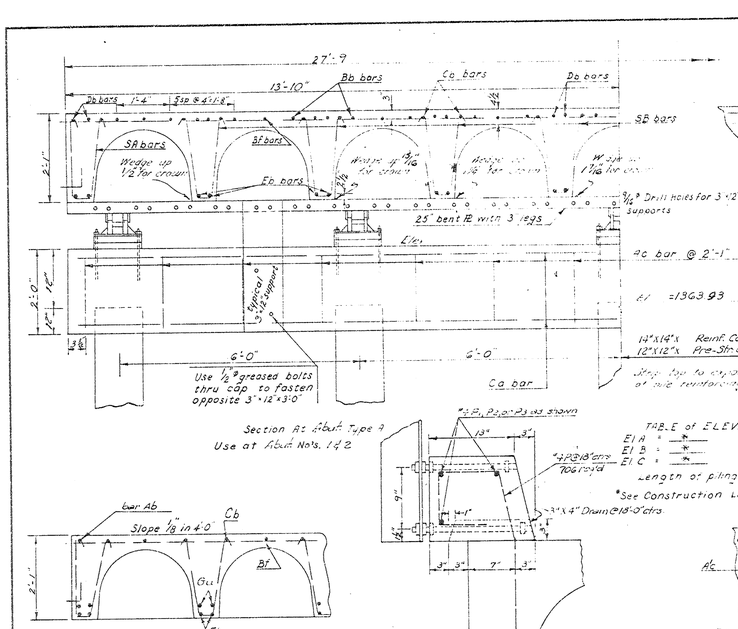
STANDARD GUARDRAIL POST DETAIL
Required



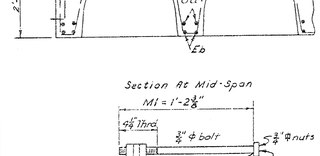
RE. CONC. MODIFIED T-BEAM BRIDGE
GENERAL DETAILS
BRIDGE NO. 598-22-5261

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

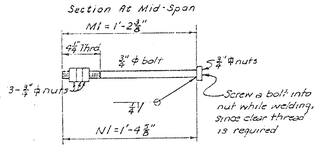
REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
	1/4" = 1'	R.R.J.	C.D.H.	C.J.F.	7
	DATE	9-50	9-18-50	10-22-50	
	PLANFILE		TOTAL SHEETS	10	



Section At Abut Type A
Use at Abut Nos. 1 & 2



Section At Mid-Span

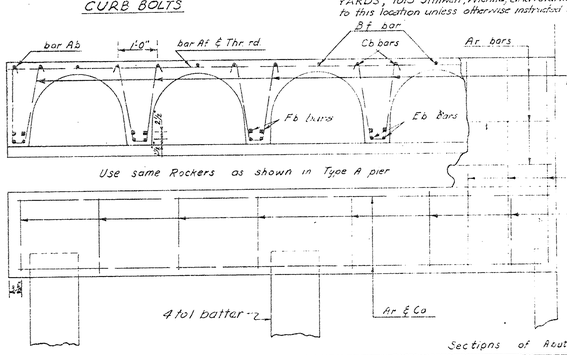


Bolts as noted marked M1
" " " " N1

CURB BOLTS

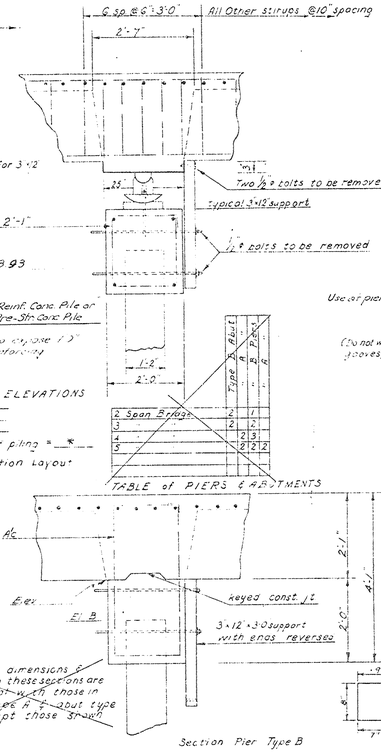
CURB DETAILS

Note:
72' of curb forms are available for this project. Said forms shall be picked up by Contractor at the SEDGWICK COUNTY YARDS, 1015 Shillwell, Wichita, and returned to this location unless otherwise instructed by the Engr.



Use same Rockers as shown in Type A pier

Sections of Abut Type A Use at Abut Nos. 1 & 2

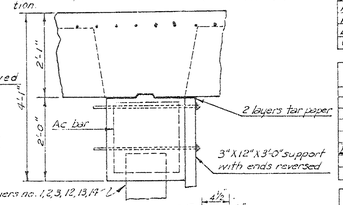


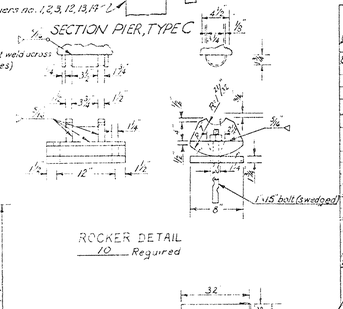
Section Pier Type B
Use at Pier Nos 4-11

GENERAL NOTES

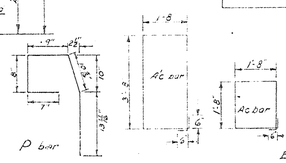
Bevel all exposed edges with 3/4" molding

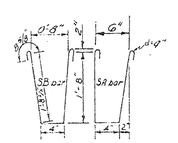
PAINT: All parts of the Metal Handrail shall receive one shop coat of red lead paint. All exposed surfaces of Structural Steel, Bearing Devices and Metal Handrail shall receive one coat of tinted aluminum paint followed by one coat of aluminum paint after erection.



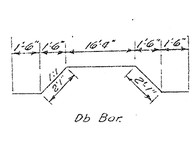


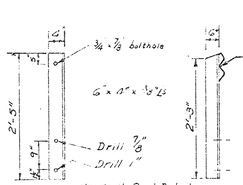


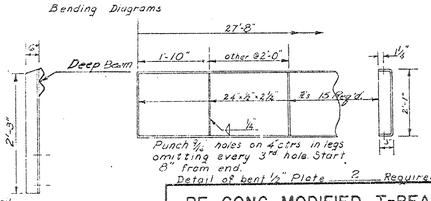


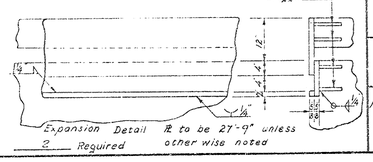


Bending Diagrams









27'-7" Rdwy ABUTMENT QUANTITIES

A TYPE	
buck wall boards	
Five bearing piling	
Eight sheet piling	
8.3 cu yd. concrete	
399 lbs. reinforcing	
Five bearing devices	
One bent plate	

Bar	No.	Length	Size
Aa	41	4'-0"	1/2" ø
Af	5	27'-0"	"
Ba	14	9'-8"	"
Ca	4	27'-0"	1" ø

B TYPE	
backWall boards	
Five bearing piling	
Eight sheet piling	
7.8 cu yd. concrete	
579 lbs. reinforcing steel	
Five bearing plates	
One bent plate	

Bar	No.	Length	Size
Aa	41	4'-0"	1/2" ø
Af	5	27'-0"	"
Ba	14	9'-8"	"
Ca	4	27'-0"	1" ø

27'-7" Rdwy PIER QUANTITIES

A TYPE	
Five Bearing piling	
360 lbs reinforcing steel	
5 bearing devices	
One bent plate	

Bar	No.	Length	Size
Ac	14	11'-8"	1/2" ø
Ca	4	27'-0"	1" ø

B TYPE	
Five bearing piling	
4.1 cu yd. concrete	
397 lbs. reinforcing steel	

Bar	No.	Length	Size
Ac	14	11'-8"	1/2" ø
Ca	4	27'-0"	1" ø

27'-7" Rdwy. SPAN QUANITITIES*

ONE END SPAN	
36.4 cu yd. conc.	
8340 lbs. reinforcing steel	
10 h'nar I posts (steel)	
72" Barrier Beam	
1-expansion device	
2 Concrete Posts	

Bar	No.	Length	Size
SA	83	5'-8"	1/2" ø
SB	332	5'-3"	"
Fa	20	23'-6"	1" ø
Eb	20	38'-4"	1" ø
Eb	20	37'-4"	1" ø
Ab	2	25'-0"	1/2" ø
Af	59	27'-0"	"
Bf	9	33'-0"	"
Ka	10	0'-11"	3/4" ø
Cb	18	33'-0"	1/2" ø
Bb	9	14'-0"	"
thrd	5	28'-0"	3/4" ø

ONE INT. SPAN	
39.6 cu yd. conc.	
8864 lbs. reinforcing steel	
2 h'ndr I posts	
72" Barrier Beam	

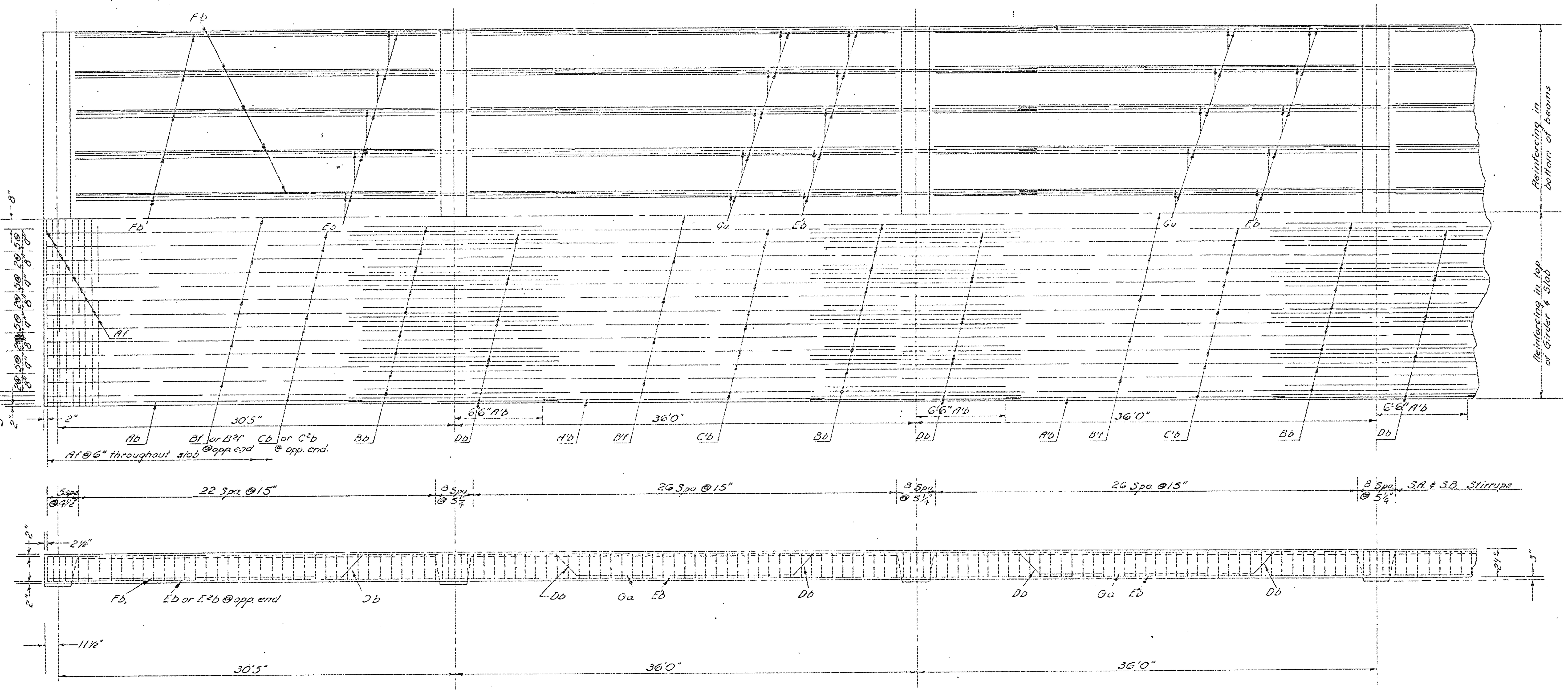
Bar	No.	Length	Size
SA	92	5'-9"	1/2" ø
SB	368	5'-3"	"
Db	20	23'-6"	1/2" ø
Eb	20	38'-4"	1" ø
Ac	2	22'-0"	1/2" ø
Ka	12	0'-11"	3/4" ø
Af	66	27'-0"	1/2" ø
Bf	9	38'-0"	"
Cb	18	38'-0"	1/2" ø
Bb	18	14'-0"	"
thrd	6	28'-0"	3/4" ø
Ga	20	18'-0"	1/2" ø

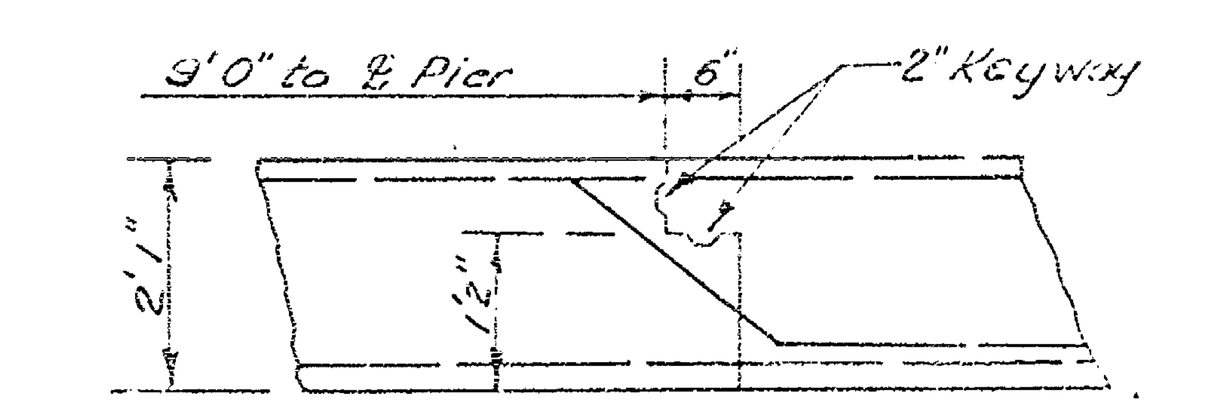
*Due to overlapping & duplication quantities shown are not necessarily actual bar numbers, but are factors to be multiplied by the number of each span involved to give total structural quantities & multiply by number of piers.

RE CONC. MODIFIED T-BEAM BRIDGE
AUXILIARY DETAILS
BRIDGE NO. 598-22-5261

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

REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
12-51 W.S.		R. R. J.	C. D. H.	C. J. F.	8
	DATE	9-50	9-23-50	10-22-56	
	PLANFILE		TOTAL SHEETS	10	





TYPICAL CONSTRUCTION JOINT

SUMMARY OF QUANTITIES

30'5" - 13 @ 36' - 30'5" Continuous Spans; 26'-1" Roadway; Metal Handrail

Bar	Aa	A'a	Ar	Ba	Ca	Ac	A'c	Ab	A'b	Af	Bb	Bf	B'f	Cb	C'b	Db
No.	84	24	12	28	84	84	112	4	26	1023	252	9	117	18	234	230
Size	#9	#9	#9	#9	#8	#9	#9	#9	#9	#9	#7	#9	#9	#7	#7	#7
Length	9'8"	*	40'0"	9'8"	21'5"	7'8"	11'8"	25'0"	23'0"	27'4"	11'0"	42'6"	38'0"	42'6"	38'0"	23'6"

Bar	Eb	E'b	Fb	Ga	SA	SB		Thr Rod	P	P1	P2	P3			E²b	B²f	C²b
No.	20	260	40	260	1008	4032		88	706	78	6	6			20	9	18
Size	#8	#8	#9	#7	#9	#9		½"ø	#4	#4	#4	#4			#8	#9	#7
Length	42'6"	38'0"	21'7"	16'6"	52"	52"		28'5"	4'0"	31'0"	32'0"	31'0"			21'7"	21'7"	21'7"

Concrete Class A	710.6 Cu. Yd.	Deep Beam Handrail	1075 Lin. Ft.
Reinforcing Steel	138,790 Lb.	Structural Steel	6582 Lb.
14"x14" Reinf. Conc. or 12"x12" Pre-Str. Pile	3400 L.F.		
Bearing Devices	1800 Lb.		

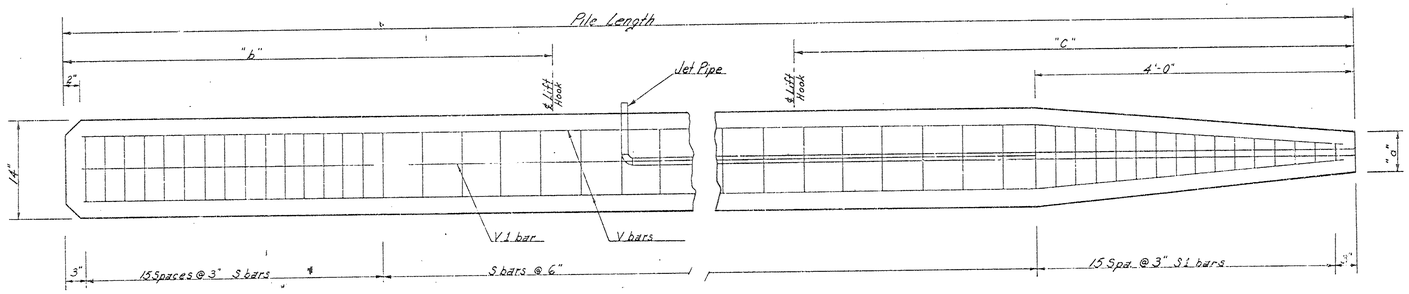
* Cut 4 bars @ 4'-7"
" " " " 4'-5"
" " " " 4'-3"
" " " " 4'-1"
" " " " 3'-11"
" " " " 3'-1"

REINFORCING DETAIL
BRIDGE NO. 598-22-5261

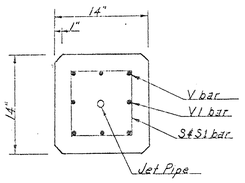
PREPARED BY
SEDGWICK COUNTY ENGINEERING DEPT.
RUFUS S. KIRK — COUNTY ENGINEER

REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
	¼" = 1'0"	M.E.S.		CJF	9
	DATE	3-52		10-56	
	PLANFILE		TOTAL SHEETS	10	

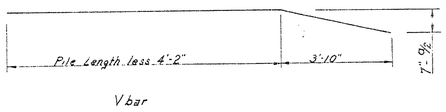
Pub. Rd Div. No.	State	Project No.	Fiscal Year	Sheet No.	Total Sheets
5	Kansas				



ELEVATION

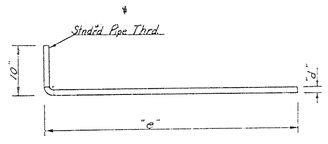


END VIEW

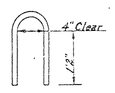


Pile Length	20'6"		24'-6"		28'6"		32'-6"		36'6"		40'-6"	
Bar	Size	Length	No.	Size	Length	No.	Size	Length	No.	Size	Length	No.	Size	Length	No.	Size	Length	No.
V	#7	20'6"	4	#7	24'2"	4	#7	28'2"	4	#7	32'2"	4	#6	36'2"	4	#6	40'2"	4
V1													#6	32'6"	4	#6	36'0"	4
S	#2	3'4"	41	#2	3'4"	49	#2	3'4"	57	#2	3'4"	65	#2	3'4"	73	#2	3'4"	81
S1	#2	"Var	15	#2	"Var	15	#2	"Var	15	#2	"Var	15	#2	"Var	15	#2	"Var	15
Lift Hook	#8	3'0"	2	#8	3'0"	2	#8	3'0"	2	#8	3'0"	2	#8	3'0"	2	#8	3'0"	2
Jet Pipe																		
"a"	6"			6"			6"			6"			6"			6"		
"b"	6'0"			7'-2"			8'-4"			9'-6"			10'-8"			11'-10"		
"c"	8'-0"			9'-2"			10'-4"			11'-6"			12'-8"			13'-10"		
"d"																		
"e"																		
"x" "y" "z"	3/4 to 8 3/4 by 1/2			3/4 to 8 3/4 by 1/2			3/4 to 8 3/4 by 1/2			3/4 to 8 3/4 by 1/2			3/4 to 8 3/4 by 1/2			3/4 to 8 3/4 by 1/2		
Concrete	.94 Cu. Yds.			1.14 Cu. Yds.			1.34 Cu. Yds.			1.55 Cu. Yds.			1.75 Cu. Yds.			1.95 Cu. Yds.		
Rebar	209 Lbs.			247 Lbs.			284 Lbs.			321 Lbs.			472 Lbs.			524 Lbs.		

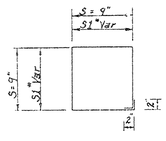
Pile Length	37'0"			30'-0"			48'-0"											
Bar	Size	Length	No.	Size	Length	No.	Size	Length	No.	Size	Length	No.	Size	Length	No.	Size	Length	No.
V	#6	36'8"	4	#7	49'8"	4	#7	49'8"	4									
V1	#6	33'0"	4	#8	45'10"	4	#8	45'10"	4									
S	#2	3'4"	74	#2	3'-4"	100	#2	3'4"	96									
S1	#2	"Var	15	#2	"Var	15	#2	"Var	15									
Lift Hook	#8	3'0"	2	#8	3'0"	2	#8	3'0"	2									
Jet Pipe			1			1			1									
"a"	10"			6"			6"											
"b"	10' 10"			14'-0"			12'-6"											
"c"	11' 11"			16'-0"			14'-8"											
"d"																		
"e"																		
"x" "y" "z"	3/4 to 8 3/4 by 1/2			3/4 to 8 3/4 by 1/2			3/4 to 8 3/4 by 1/2											
Concrete	1.82 Cu. Yds.			2.43 Cu. Yds			2.33 Cu. Yd											
Rebar	482 Lbs			956 lb.			918 #											



"d" Dia. Jet Pipe



#8 Lift Hook



S#S1 bar

"S1" - 15 bars; increase from "x" to "y" by "z" increments

General Notes

Design: According to AASHO Specifications 1949 Edition. fs=12,000 psi fc=1,000 psi.
Concrete: Use class A throughout if Piling are to be encased or otherwise protected. Use class A (AE) if piling are to form open bent, unless otherwise noted.
Reinforcing: All dimensions are to center of bars unless otherwise noted.
Jet Pipe: Standard pipe of Dimensions shown unless otherwise approved by Engineer.
Curing: Piling shall be left in forms or otherwise properly cured for at least 7 days. Piling shall not be moved until concrete has attained its design Strength or a minimum of 4 weeks after casting.
Payment: The cost of material and labor used for casting and driving of piles shall be included in the unit bid for concrete piles.
Handling: Piling shall only be lifted by handling hooks or by rigging within 18" of hook location.

14"x14" Re. Conc. Piling
BRIDGE NO. 598-22-5261

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

REVISED	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
		Schwab	Houseman	C.J.F.	10
	DATE	12-51	1-52	10-22-50	
	PLANFILE		TOTAL SHEETS	10	