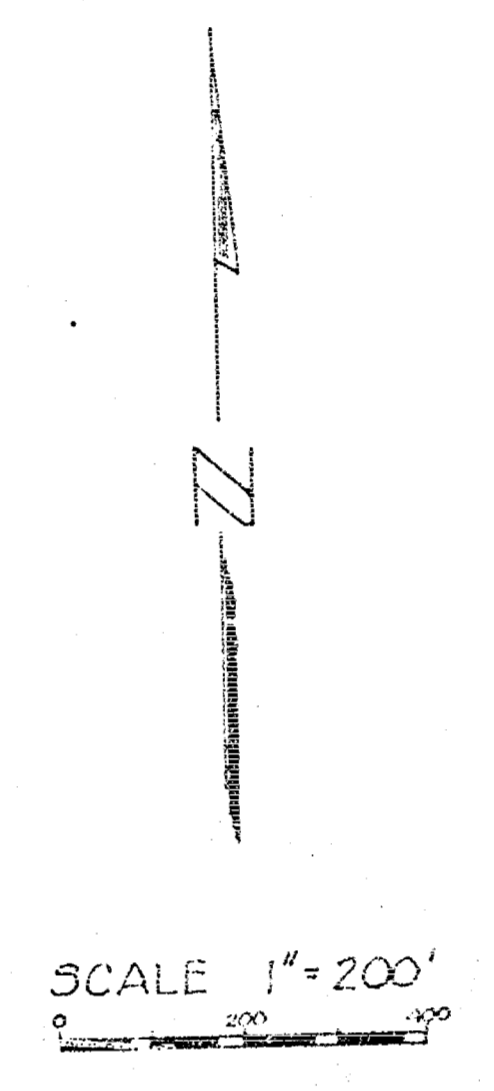
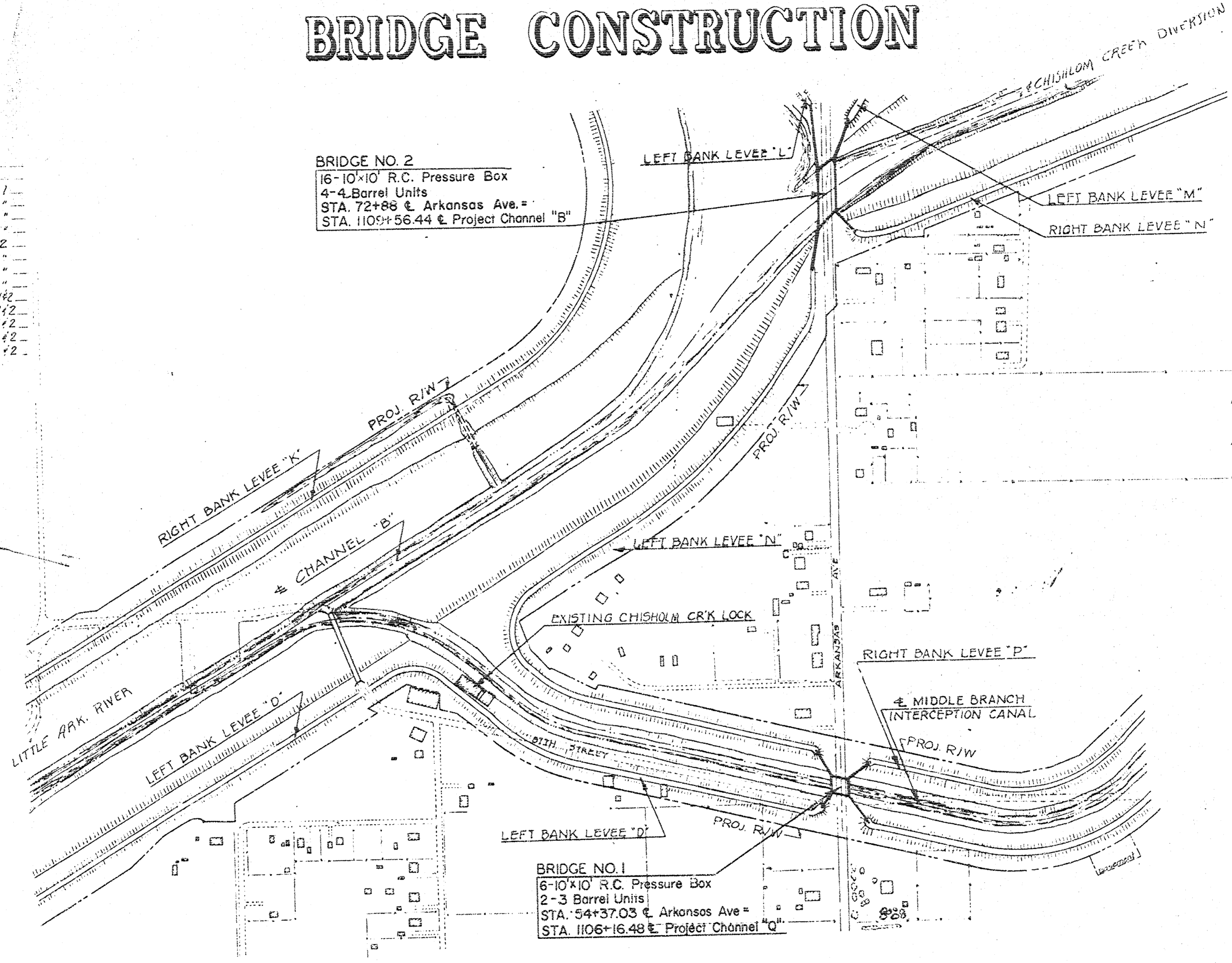


# SEDGWICK COUNTY, KANSAS BRIDGE CONSTRUCTION

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11	Auxiliary Details
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PLANS PREPARED BY  
**MERLE E. SCHWAB**  
CIVIL ENGINEERS  
- WICHITA -

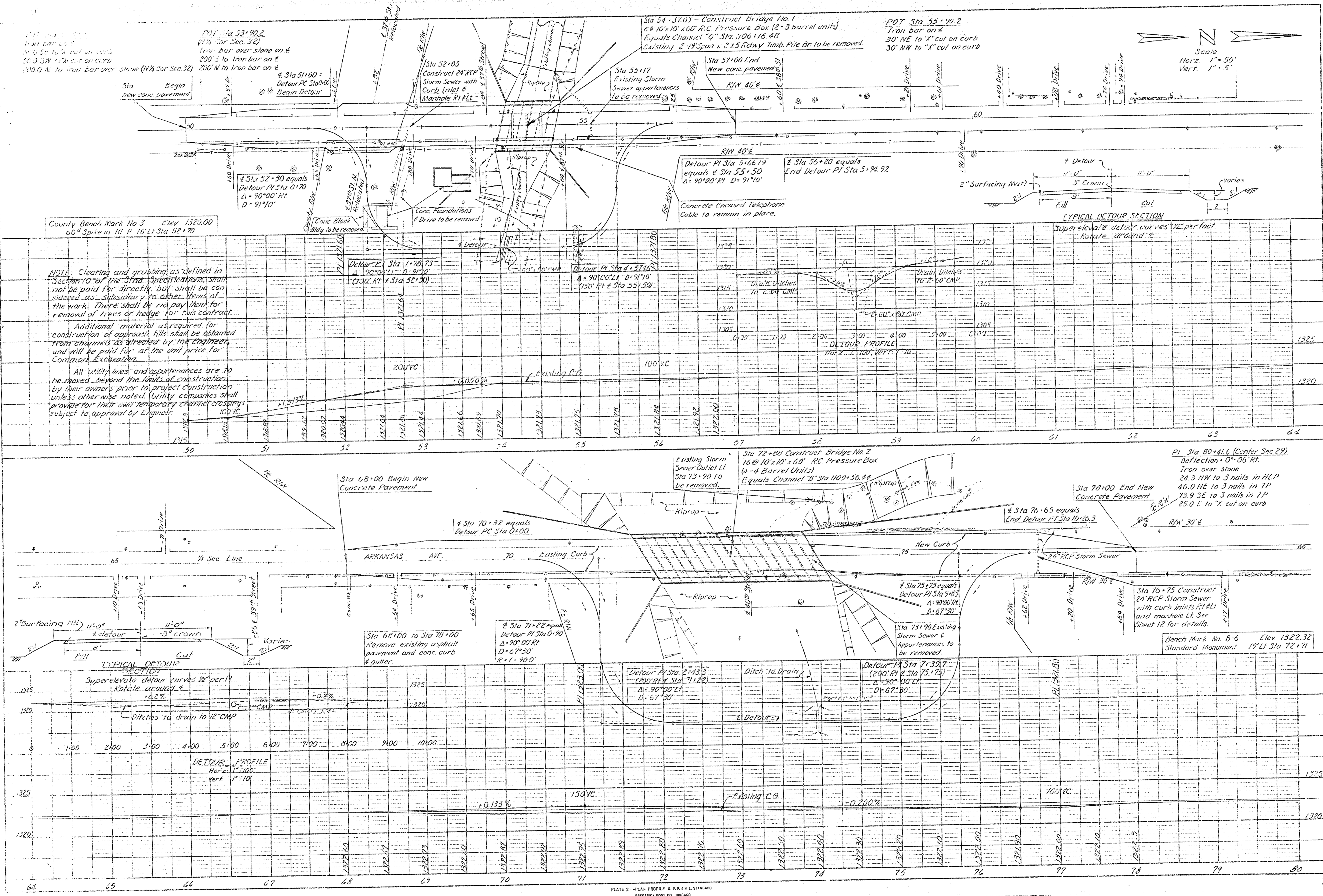
RECOMMENDED FOR APPROVAL:  
*Merle E. Schwab* Date May 31  
 Merle E. Schwab  
 CIVIL ENGINEERS

APPROVED:  
*Robert E. Schick* Date May 31  
 COUNTY ENGINEER

APPROVED:  
 For District Engineer, CORPS OF ENGRS., TULSA DISTRICT

APPROVED:  
 For KANSAS STATE HIGHWAY COMMISSION,  
 Dept. of Secondary Roads.

PLANS AND SPECIFICATIONS REVIEWED AND APPROVED:  
*Robert E. Schick* Date May 31  
 COUNTY COUNSELLOR

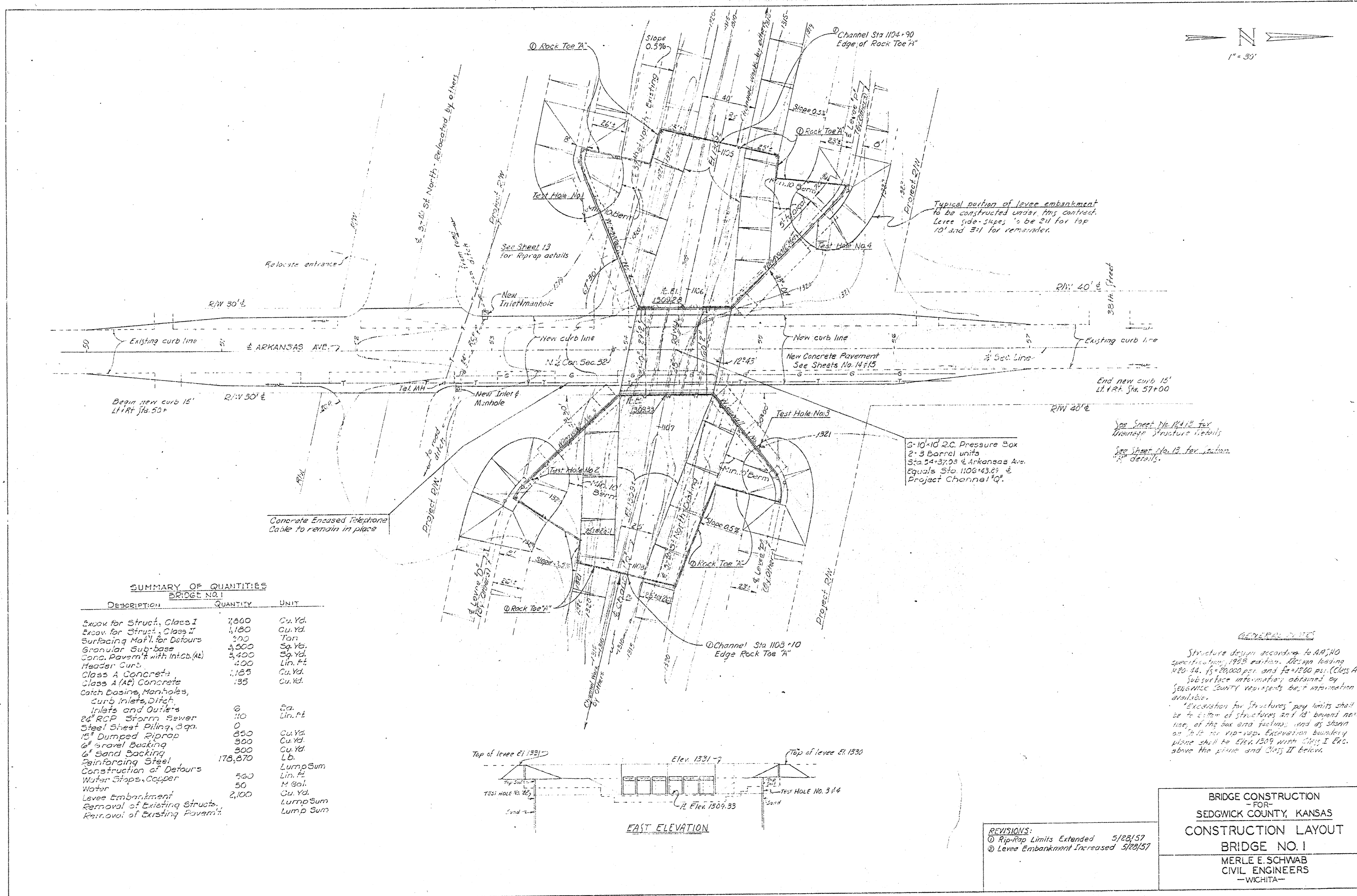


**NOTE:** Clearing and grubbing as defined in Section 10 of the State Specifications shall not be paid for directly, but shall be considered as subsidiary to other items of the work. There shall be no payment for removal of trees or hedge for this contract.

Additional material as required for construction of approach fills shall be obtained from channels as directed by the Engineer, and will be paid for at the unit price for Contract Excavation.

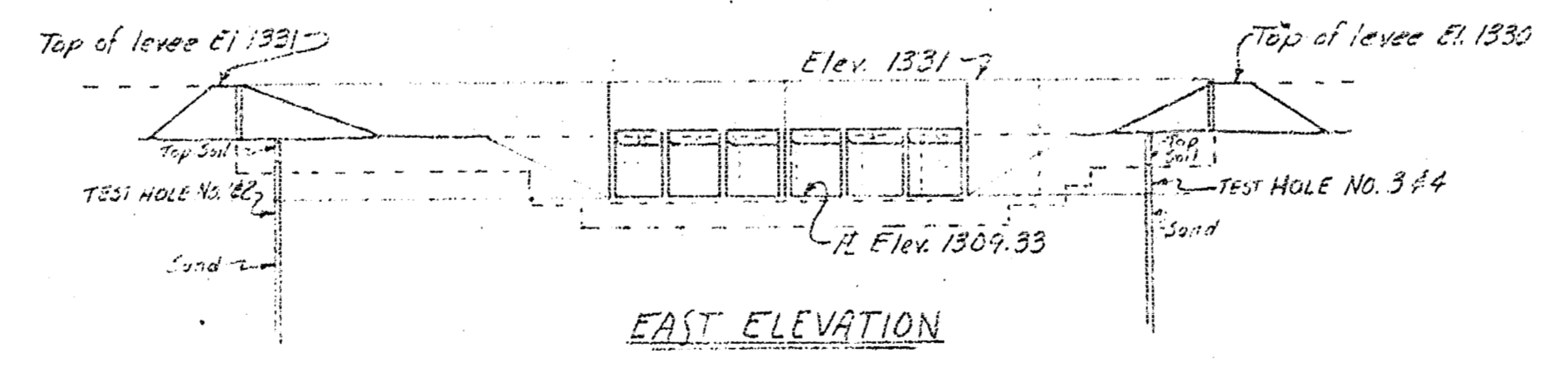
All utility lines and appurtenances are to be moved beyond the limits of construction by their owners prior to project construction unless otherwise noted. Utility companies shall provide for their own temporary channel crossings subject to approval by Engineer.

PLATE 2 - PLAN, PROFILE & P.P. & STANDARD  
 FEDERAL POST CO. DUNDAS



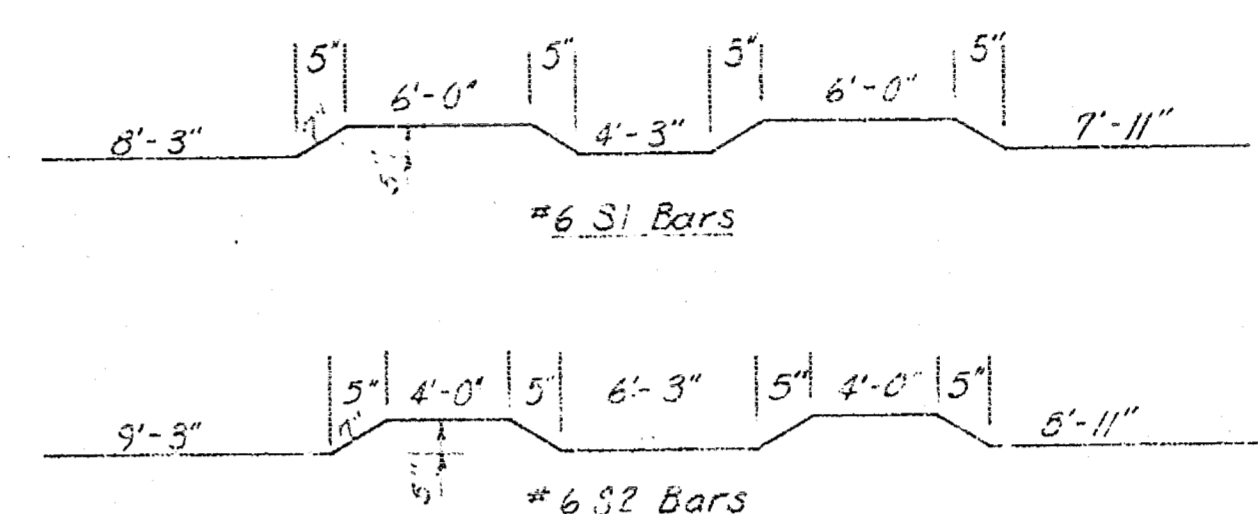
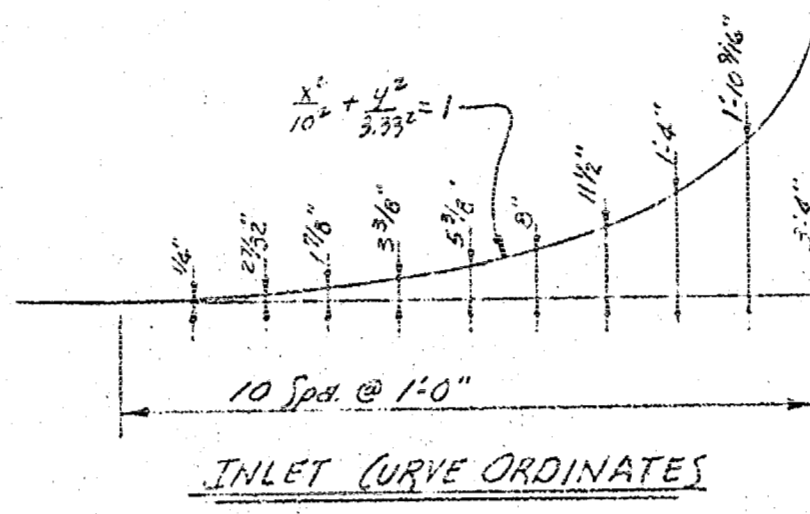
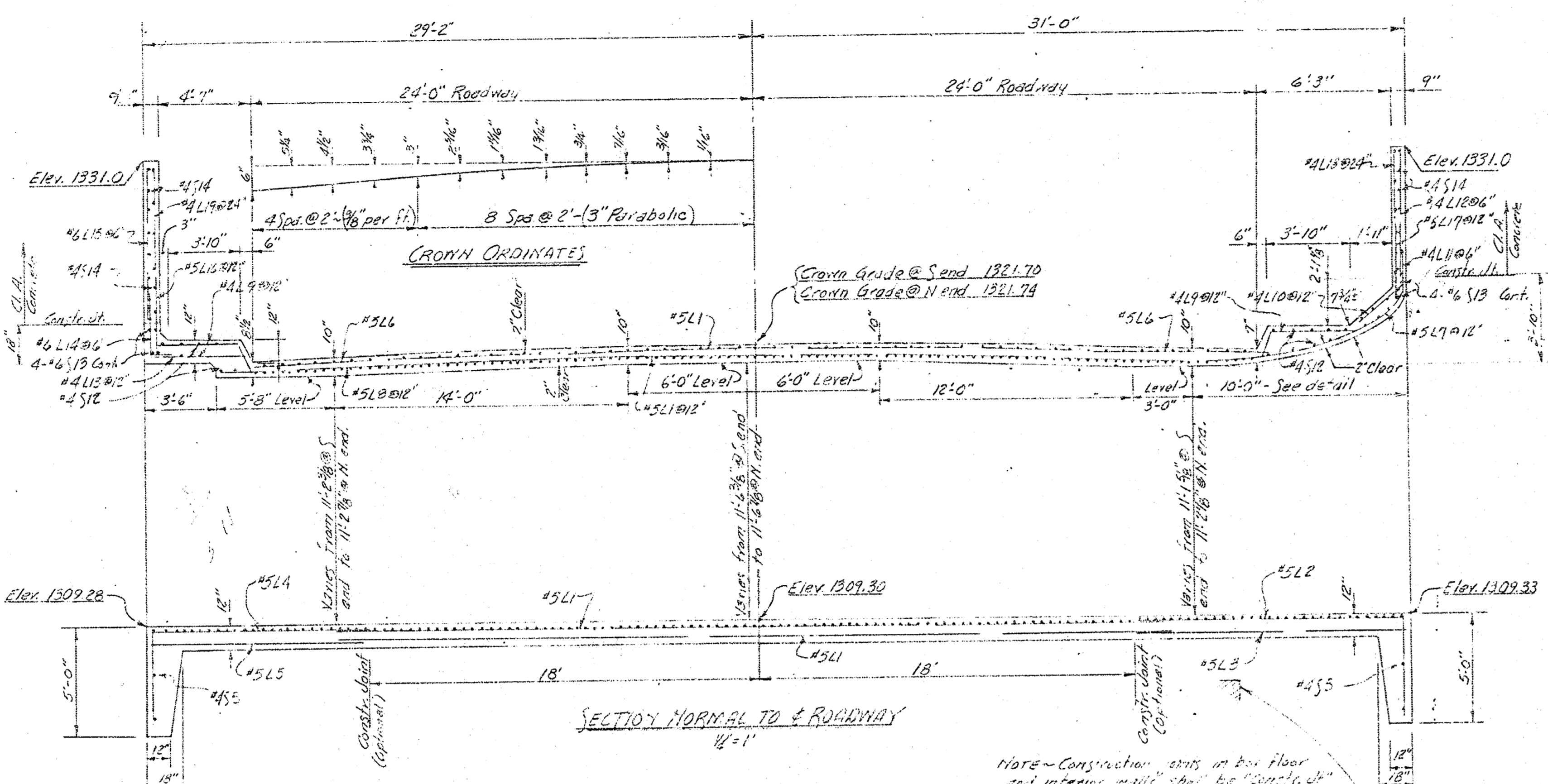
**SUMMARY OF QUANTITIES  
BRIDGE NO. 1**

DESCRIPTION	QUANTITY	UNIT
Excav for Struct. Class I	7,800	Cu. Yd.
Excav for Struct. Class II	4,180	Cu. Yd.
Surfacing Mat'l. for Detours	300	Ton
Granular Sub-base	3,500	Sq. Yd.
Conc. Pavem't with Int'ls. (A)	3,400	Sq. Yd.
Header Curb	400	Lin. Ft.
Class A Concrete	1,185	Cu. Yd.
Class A (A) Concrete	195	Cu. Yd.
Catch Basins, Manholes, Curb Inlets, Ditch Inlets and Outlets	8	EA.
24" RCP Storm Sewer	110	Lin. Ft.
Steel Sheet Piling, Sqa.	0	
15" Dumped Riprap	850	Cu. Yd.
6" Gravel Backing	300	Cu. Yd.
6" Sand Backing	300	Cu. Yd.
Reinforcing Steel	178,870	Lump Sum
Construction of Detours	500	Lin. Ft.
Water Stops, Copper	50	M. Bol.
Water	2,100	Cu. Yd.
Levee Embankment		Lump Sum
Removal of Existing Structs.		Lump Sum
Removal of Existing Pavem't		Lump Sum



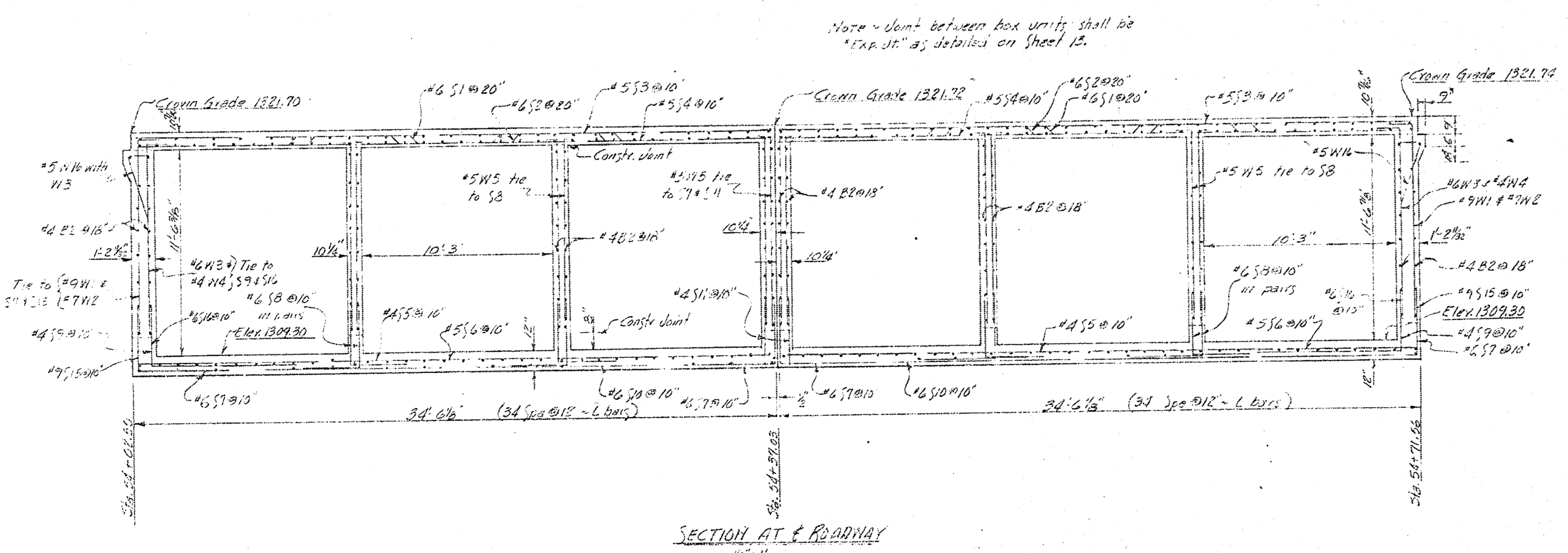
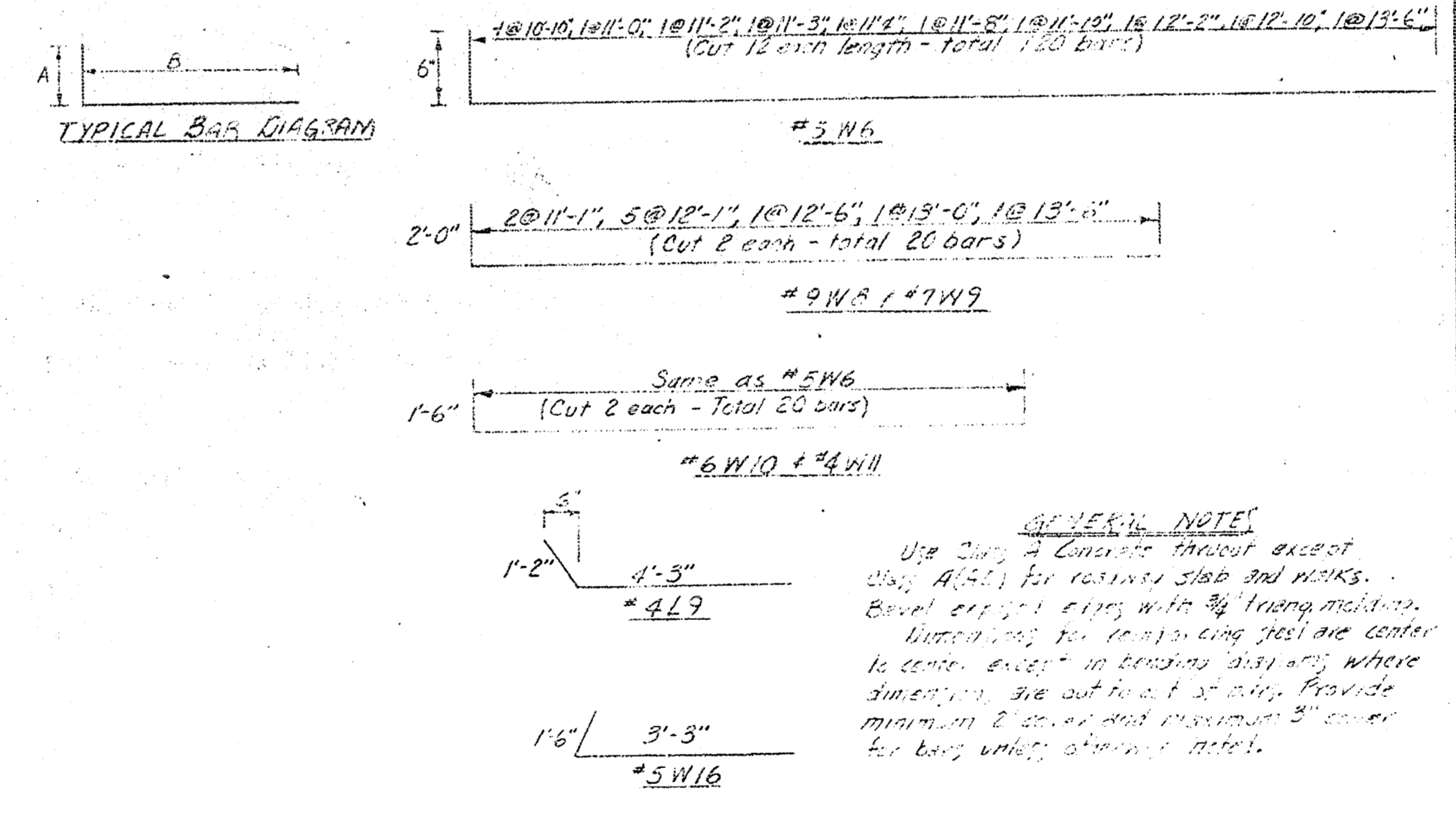
**REVISIONS:**  
 ① Rip-Rap Limits Extended 5/28/57  
 ② Levee Embankment Increased 5/28/57

**BRIDGE CONSTRUCTION  
 FOR  
 SEDGWICK COUNTY, KANSAS  
 CONSTRUCTION LAYOUT  
 BRIDGE NO. 1  
 MERLE E. SCHWAB  
 CIVIL ENGINEERS  
 -WICHITA-**

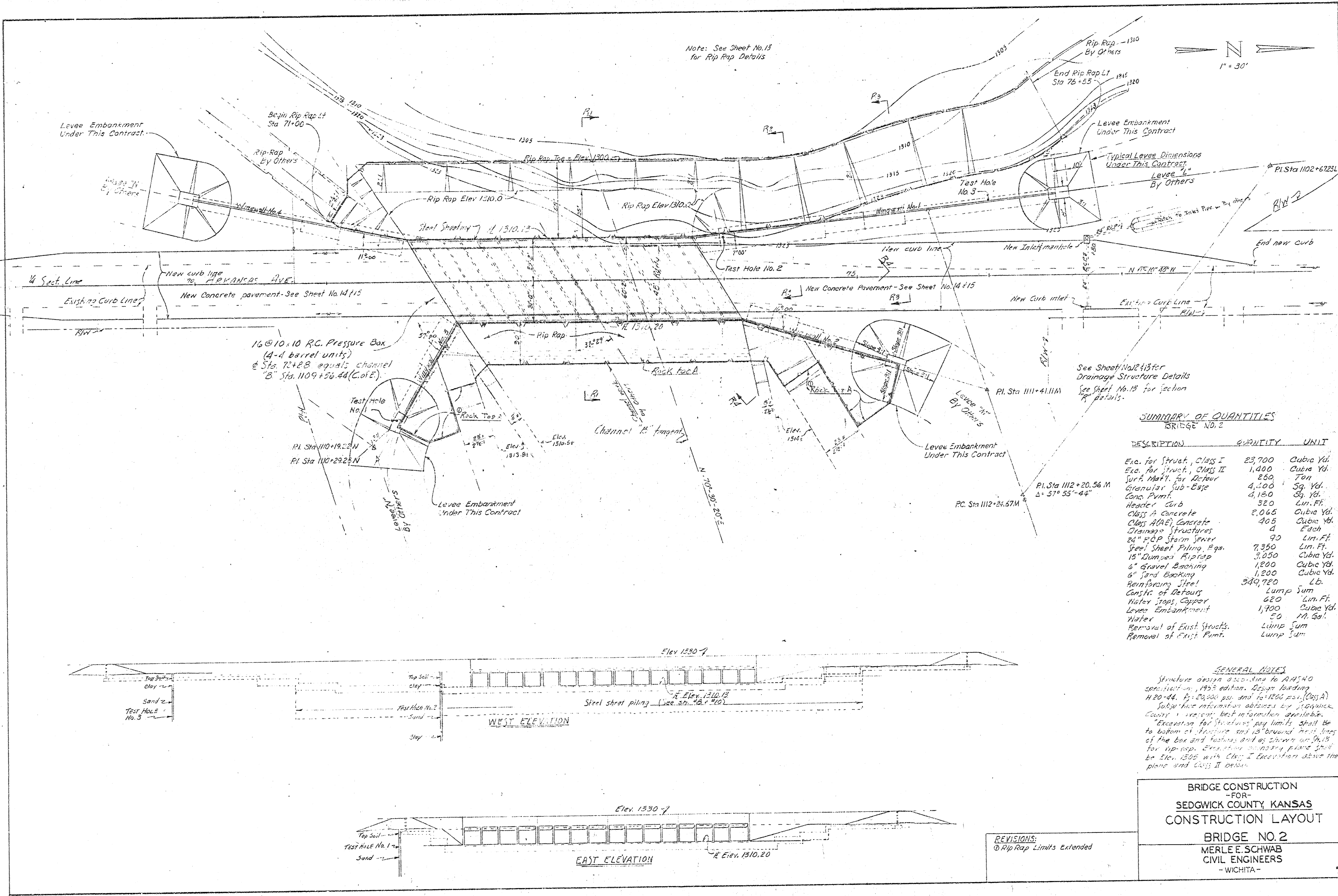


BAR	SIZE	A x B	LENGTH	NO.	BAR	SIZE	A x B	LENGTH	NO.	BAR	SIZE	A x B	LENGTH	NO.
S1	#6	34'-9"	52	L9	#5	Straight	12'-6"	58	X1	#4	Straight	20'-9"	8	
S2	#6	34'-9"	56	L4	#5	Straight	15'-0"	58	W1	#7	2'-0" x 11'-2"	13'-2"	116	
S3	#5	Straight	34'-0"	116	L5	#5	Straight	17'-0"	58	W2	#7	2'-0" x 11'-2"	13'-2"	116
S4	#5	34'-0"	116	L6	#5	34'-0"	116	W3	#7	2'-0" x 11'-2"	13'-2"	116		
S5	#4	34'-0"	152	L7	#5	34'-0"	116	W4	#7	2'-0" x 11'-2"	13'-2"	116		
S6	#5	34'-0"	208	L8	#5	34'-0"	116	W5	#7	2'-0" x 11'-2"	13'-2"	116		
S7	#5	3'-0" x 3'-0"	8'-0"	288	L9	#4	1'-2" x 4'-3/4"	5'-5"	110	W6	#7	2'-0" x 11'-2"	13'-2"	116
S8	#6	3'-0" x 3'-0"	6'-0"	508	L10	#4	Straight	5'-6"	70	W7	#7	2'-0" x 11'-2"	13'-2"	116
S9	#4	2'-6" x 2'-0"	12'-0"	144	L11	#4	3'-0" x 3'-0"	6'-0"	144	W8	#7	2'-0" x 11'-2"	13'-2"	116
S10	#6	Straight	9'-0"	288	L12	#4	3'-0" x 3'-0"	6'-0"	144	W9	#7	2'-0" x 11'-2"	13'-2"	116
S11	#4	3'-0" x 12"	4'-0"	144	L13	#4	3'-0" x 3'-0"	6'-0"	144	W10	#7	2'-0" x 11'-2"	13'-2"	116
S12	#4	Straight	34'-0"	52	L14	#5	1'-6" x 3'-6"	5'-0"	122	W11	#7	2'-0" x 11'-2"	13'-2"	116
S13	#5	34'-0"	116	L15	#6	Straight	8'-0"	128	W12	#7	2'-0" x 11'-2"	13'-2"	116	
S14	#4	34'-0"	58	L16	#5	34'-0"	116	W13	#7	2'-0" x 11'-2"	13'-2"	116		
S15	#4	3'-0" x 3'-0"	6'-0"	144	L17	#5	34'-0"	116	W14	#7	2'-0" x 11'-2"	13'-2"	116	
S16	#6	3'-0" x 2'-0"	4'-0"	144	L18	#4	3'-0" x 3'-0"	6'-0"	144	W15	#7	2'-0" x 11'-2"	13'-2"	116
S17	#4	Straight	7'-0"	144	L19	#4	3'-0" x 3'-0"	6'-0"	144	W16	#7	2'-0" x 11'-2"	13'-2"	116
S18	#4	3'-0" x 4'-0"	7'-0"	8	L20	#5	4'-0" x 12'-0"	12'-0"	72	W17	#5	1'-6" x 3'-3/4"	4'-9"	116
S19	#5	Straight	7'-0"	144	L21	#5	Straight	13'-0"	22	W18	#5	Straight	11'-0"	116
L1	#5	Straight	39'-0"	280	B1	#4	39'-0"	280	B2	#4	39'-0"	280		
L2	#5	12'-6" x 4'-0"	16'-6"	38	B3	#4	12'-6" x 4'-0"	16'-6"	38	B4	#4	12'-6" x 4'-0"	16'-6"	

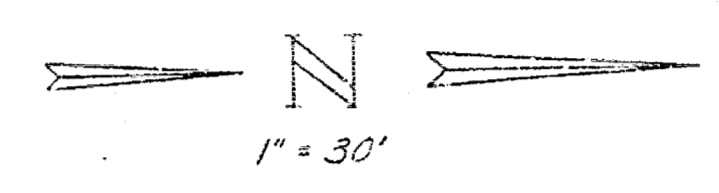
See typical diagram below  
See special diagrams



BRIDGE CONSTRUCTION  
FOR  
SEDGWICK COUNTY, KANSAS  
BOX SECTIONS  
BRIDGE NO. 1  
MERLE E. SCHWAB  
CIVIL ENGINEERS  
WICHITA



Note: See Sheet No. 13  
for Rip Rap Details



**SUMMARY OF QUANTITIES**  
BRIDGE NO. 2

DESCRIPTION	QUANTITY	UNIT
Exc. for Struct., Class I	23,700	Cubic Yd.
Exc. for Struct., Class II	1,400	Cubic Yd.
Exc. for Work, Class II	850	Ton
Granular Sub-Base	4,100	Sq. Yd.
Conc. Pmt.	4,100	Sq. Yd.
Header Curb	320	Lin. Ft.
Class A Concrete	2,045	Cubic Yd.
Class A (A-E) Concrete	405	Cubic Yd.
Drainage Structures	4	Ftch.
24" R.C.P. Storm Sewer	90	Lin. Ft.
Steel Sheet Piling, Eqs.	7,350	Lin. Ft.
15" Dumped Riprap	3,050	Cubic Yd.
6" Gravel Backing	1,200	Cubic Yd.
6" Sand Backing	1,200	Cubic Yd.
Reinforcing Steel	340,720	Lb.
Castle of Debris		Lump Sum
Water Stops, Copper	620	Lin. Ft.
Levee Embankment	1,700	Cubic Yd.
Water	20	M. Gal.
Removal of Exist. Structs.		Lump Sum
Removal of Exist. Pmt.		Lump Sum

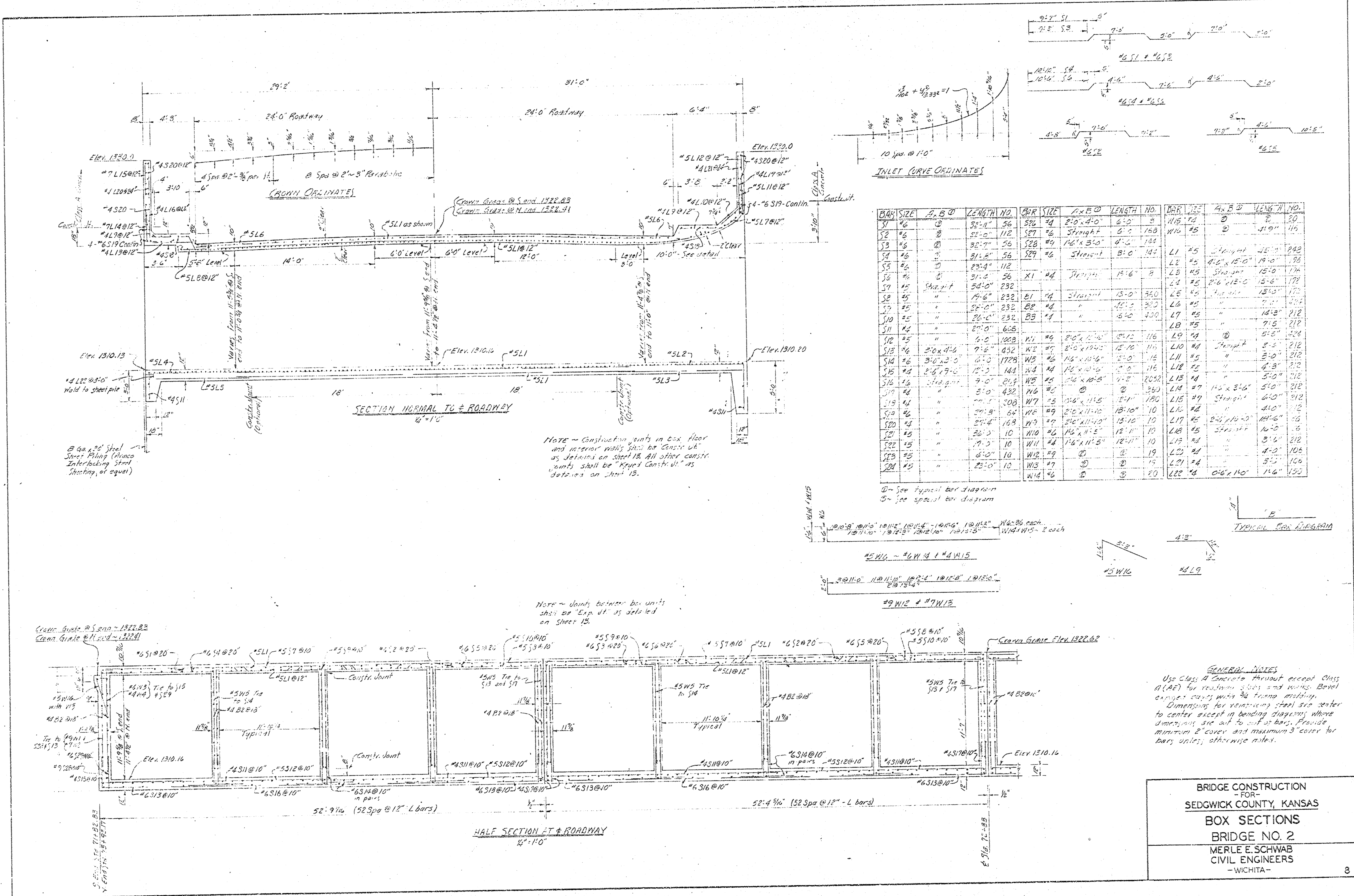
**GENERAL NOTES**

Structure design according to AWS-40  
specification, 1953 edition. Design loading  
ASD-44, 15,000 psf and 10,000 psf (ASD-44)  
Subsoil information obtained by geotechnical  
survey, see report information available.  
Exception for structure, pay limits shall be  
to bottom of structure and 18" beyond first line  
of the box and bottom and 18" above top of  
the rip rap. Excavation shall be paid for  
to elev. 1300 with Class I excavation above the  
plane and Class II below.

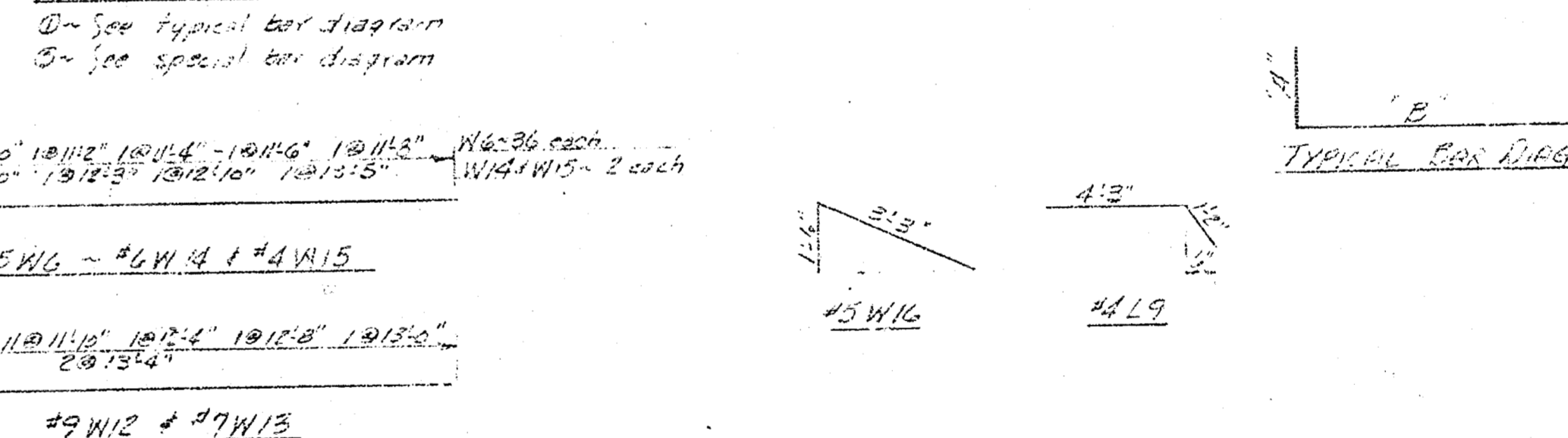
**BRIDGE CONSTRUCTION**  
-FOR-  
**SEDGWICK COUNTY, KANSAS**  
**CONSTRUCTION LAYOUT**

**BRIDGE NO. 2**  
**MERLE E. SCHWAB**  
**CIVIL ENGINEERS**  
- WICHITA -

REVISIONS:  
① Rip Rap Limits Extended



BAR	SIZE	A. B. D.	LENGTH	NO.	BAR	SIZE	A. B. D.	LENGTH	NO.	BAR	SIZE	A. B. D.	LENGTH	NO.
S1	#6	Ø	38'-11"	96	S16	#4	210" x 410"	6'-0"	3	N15	#4	Ø	Ø	20
S2	#6	Ø	37'-0"	112	S17	#6	STRAIGHT	6'-0"	168	N16	#6	Ø	Ø	110
S3	#6	Ø	38'-7"	50	S18	#4	161" x 310"	6'-0"	184	L1	#5	STRAIGHT	45'-0"	242
S4	#6	Ø	37'-8"	56	S19	#6	STRAIGHT	8'-0"	142	L2	#5	45" x 15'-0"	19'-0"	96
S5	#6	Ø	38'-4"	112	S20	#4	STRAIGHT	15'-6"	3	L3	#5	STRAIGHT	15'-0"	176
S6	#6	Ø	37'-0"	56	S21	#4	STRAIGHT	15'-6"	3	L4	#5	216" x 15'-0"	15'-6"	176
S7	#6	Ø	38'-0"	232	S22	#4	STRAIGHT	15'-0"	360	L5	#5	STRAIGHT	15'-0"	176
S8	#6	Ø	37'-0"	232	S23	#4	STRAIGHT	15'-0"	360	L6	#5	Ø	Ø	176
S9	#6	Ø	37'-0"	232	S24	#4	STRAIGHT	15'-0"	360	L7	#5	Ø	Ø	176
S10	#6	Ø	37'-0"	232	S25	#4	STRAIGHT	15'-0"	360	L8	#5	Ø	Ø	176
S11	#6	Ø	37'-0"	608	S26	#4	Ø	Ø	116	L9	#4	Ø	Ø	224
S12	#6	Ø	41'-0"	1008	S27	#4	210" x 410"	15'-0"	116	L10	#4	STRAIGHT	5'-0"	216
S13	#6	Ø	37'-0"	432	S28	#4	210" x 410"	15'-0"	116	L11	#4	Ø	Ø	216
S14	#6	Ø	37'-0"	1728	S29	#4	161" x 310"	6'-0"	116	L12	#4	Ø	Ø	216
S15	#6	Ø	37'-0"	144	S30	#4	161" x 310"	6'-0"	116	L13	#4	Ø	Ø	216
S16	#6	Ø	37'-0"	216	S31	#4	161" x 310"	6'-0"	116	L14	#4	115" x 310"	5'-0"	216
S17	#6	Ø	37'-0"	432	S32	#4	Ø	Ø	360	L15	#4	STRAIGHT	6'-0"	216
S18	#6	Ø	37'-0"	308	S33	#4	210" x 410"	15'-0"	10	L16	#4	Ø	Ø	176
S19	#6	Ø	37'-0"	64	S34	#4	210" x 410"	15'-0"	10	L17	#4	216" x 110"	11'-6"	10
S20	#6	Ø	37'-0"	168	S35	#4	210" x 410"	15'-0"	10	L18	#4	STRAIGHT	11'-6"	10
S21	#6	Ø	37'-0"	10	S36	#4	161" x 310"	6'-0"	10	L19	#4	Ø	Ø	216
S22	#6	Ø	37'-0"	10	S37	#4	Ø	Ø	19	L20	#4	Ø	Ø	104
S23	#6	Ø	37'-0"	10	S38	#4	Ø	Ø	19	L21	#4	Ø	Ø	104
S24	#6	Ø	37'-0"	10	S39	#4	Ø	Ø	19	L22	#4	Ø	Ø	104



**GENERAL NOTES**  
 Use Class A Concrete Throughout except Class A(AE) for retaining walls and masonry. Bevel chamfered corners with 3/8" radius. Minimum 2" cover and maximum 3" cover for bars unless otherwise noted.

**BRIDGE CONSTRUCTION**  
 FOR  
**SEDGWICK COUNTY, KANSAS**  
**BOX SECTIONS**  
**BRIDGE NO. 2**  
**MERLE E. SCHWAB**  
**CIVIL ENGINEERS**  
 -WICHITA-