

STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
KANSAS		1950	1	11

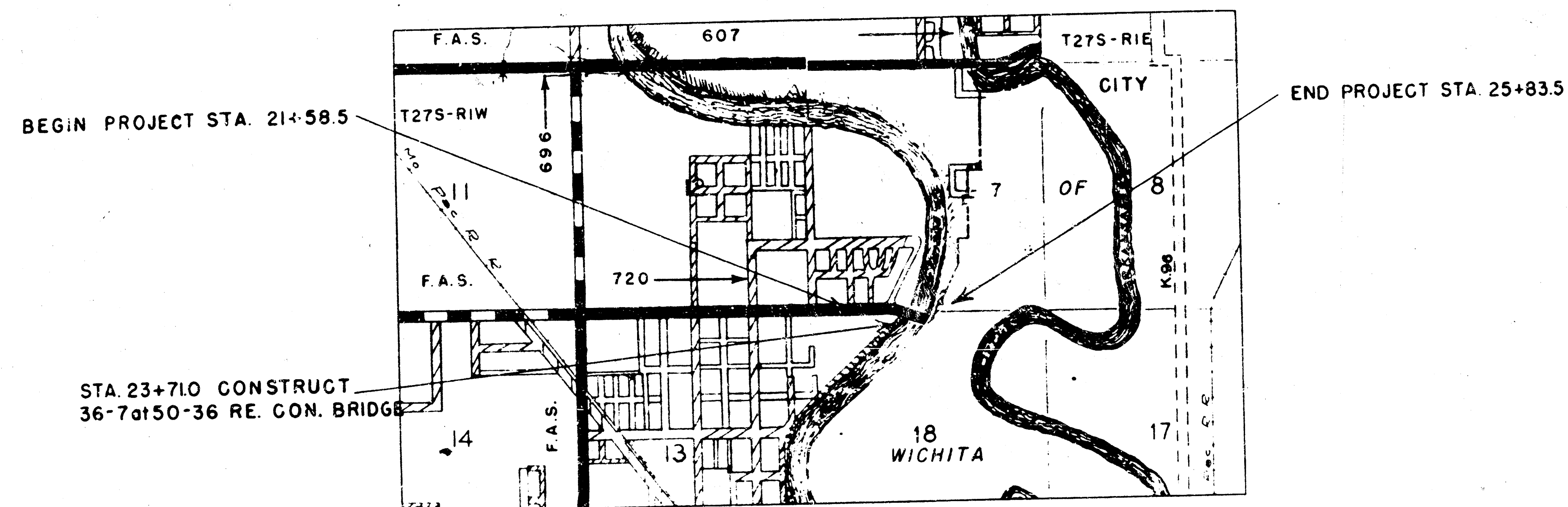


BRIDGE NO. 616-25-2371

6,158 V.P.D. 1950

INDEX OF SHEETS

SHEET NO. 1	TITLE SHEET
2	PLAN & PROFILE
3	TOPOGRAPHY
4	CONSTRUCTION LAYOUT
5-6	SLAB & GIRDER DETAIL
7	ABUTMENT DETAIL
8	PIER DETAIL
9	AUXILIARY DETAIL
10	LIGHTING DETAIL
11	PILING DETAIL



CONVENTIONAL SIGNS

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

NET LENGTH OF PROJECT	425.0	FT.	08	MILES
NET LENGTH OF BRIDGES	425.0	FT.	08	MILES
NET LENGTH OF ROAD		FT.		MILES
EXCEPTIONS		FT.		MILES
ADDITIONS		FT.		MILES
GROSS LENGTH OF PROJECT		FT.		MILES

PLANS PREPARED BY

DATE

APPROVED

DATE 12-18-50

ENGINEER OF SECONDARY ROADS

APPROVED

COUNTY ENGINEER

DATE 12-14-50

APPROVED

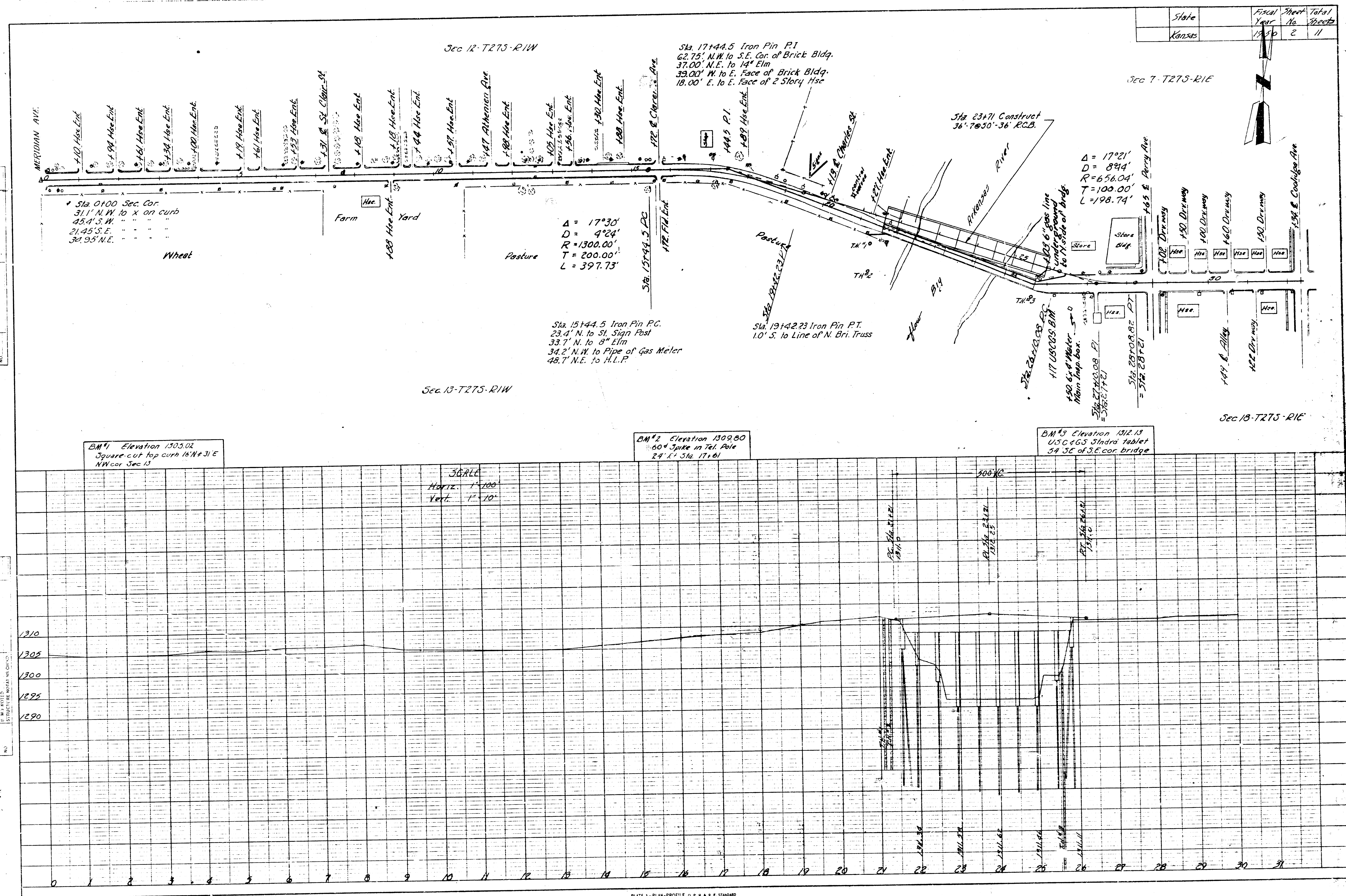
DATE 12-18-50

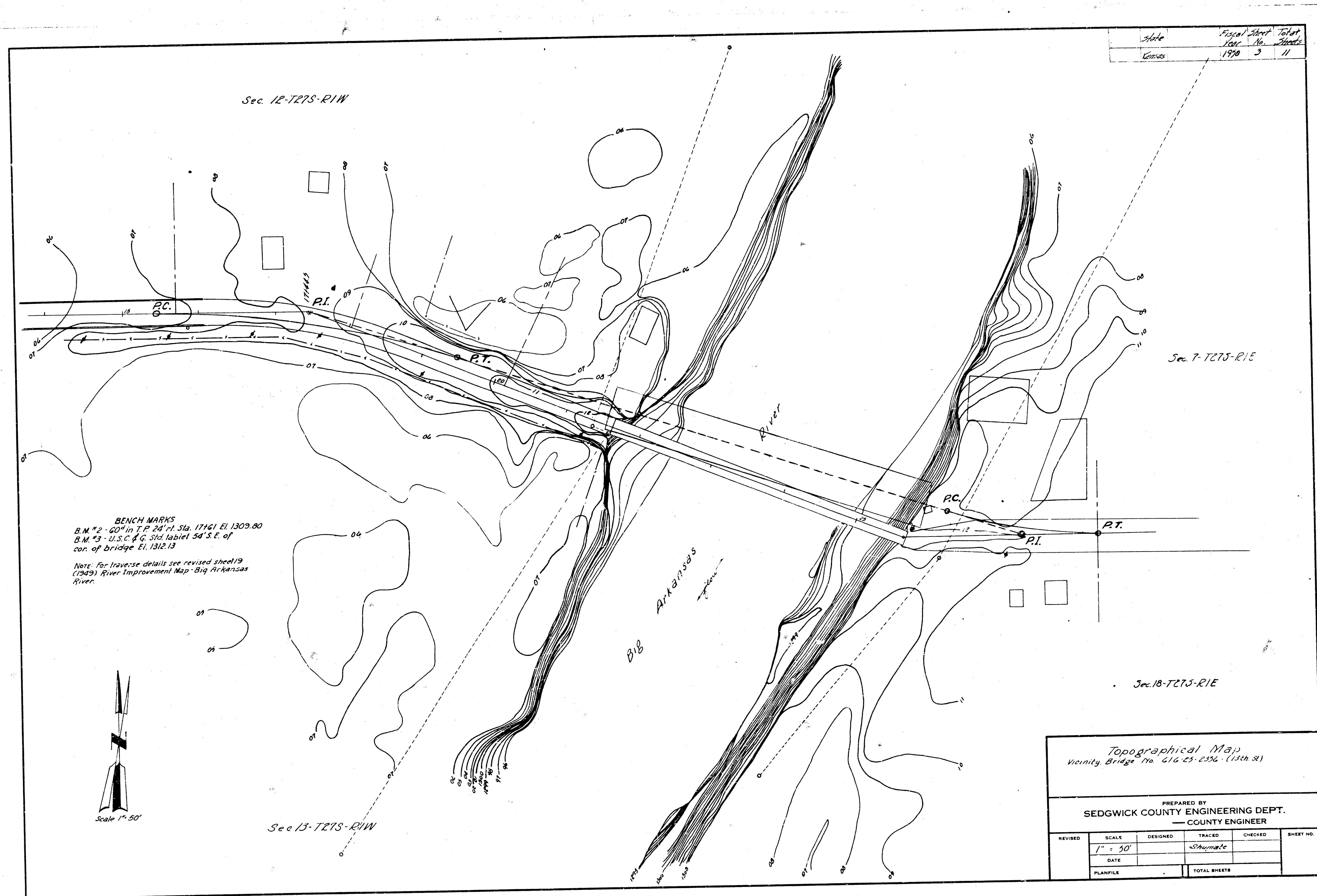
STATE HIGHWAY ENGINEER

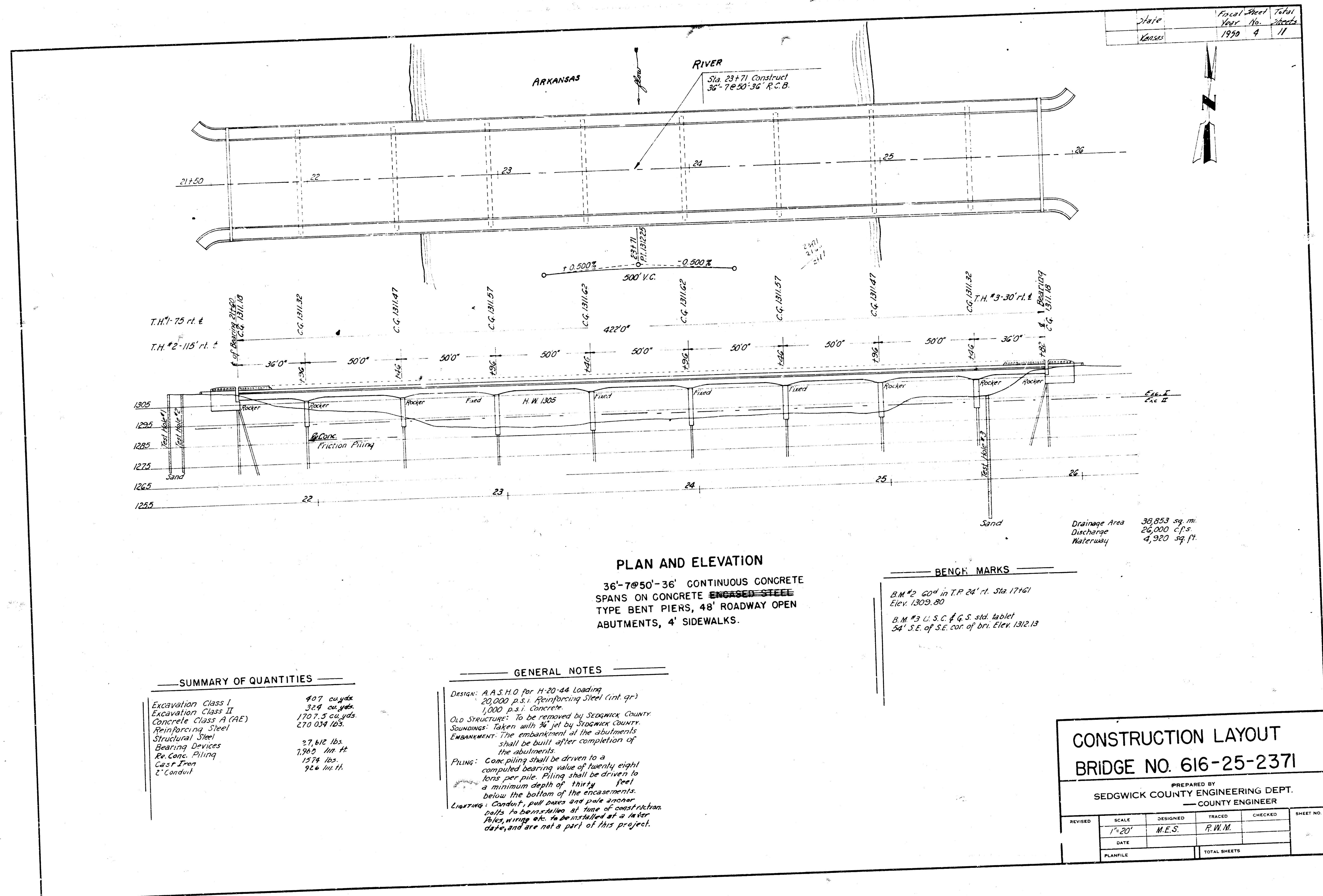
13th Street
616-25

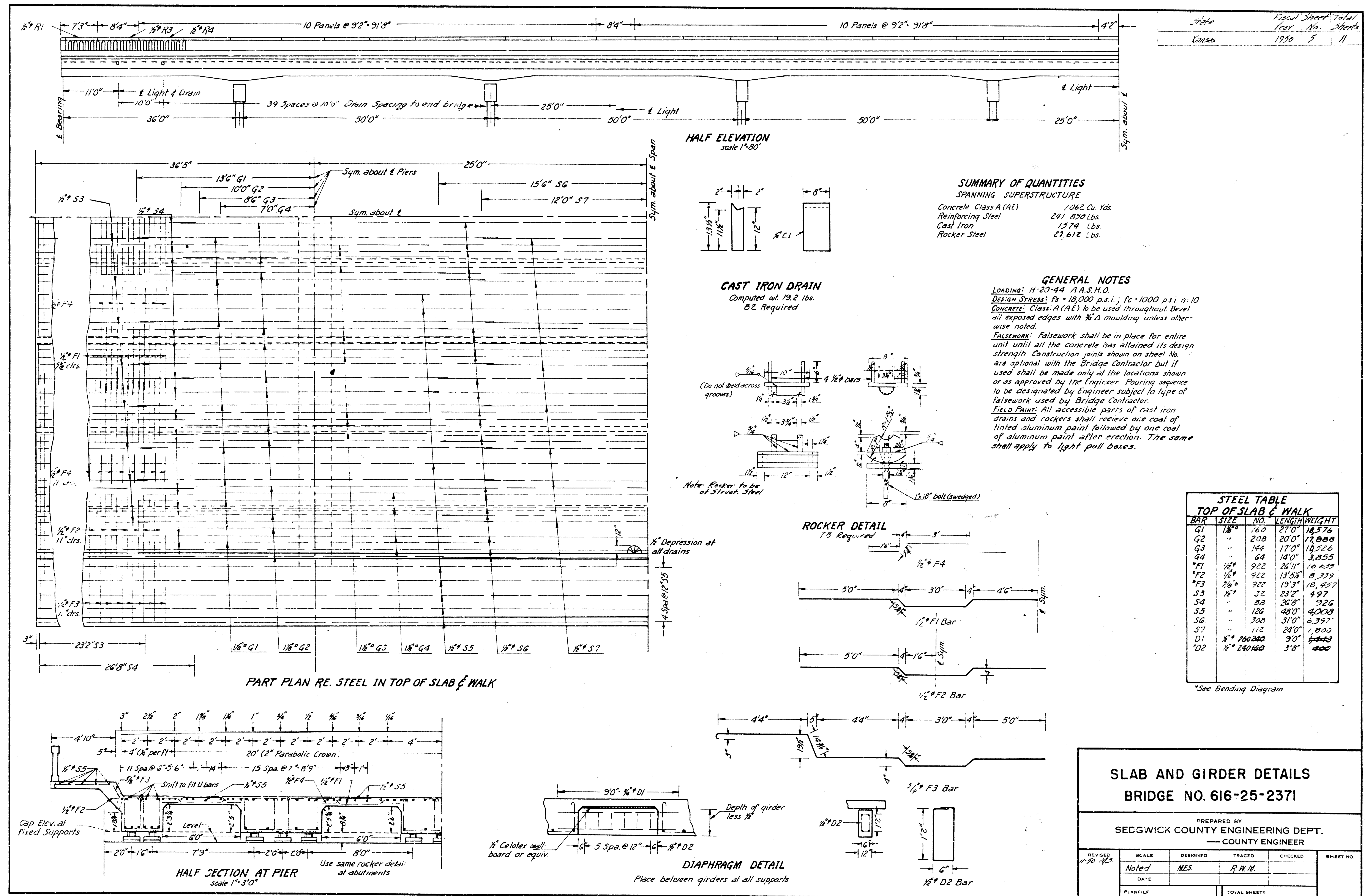
PLAN	SECTION	DATE
17275	Shawnee	8-30
NOTE: BORN IN OF WAY CHANGED		

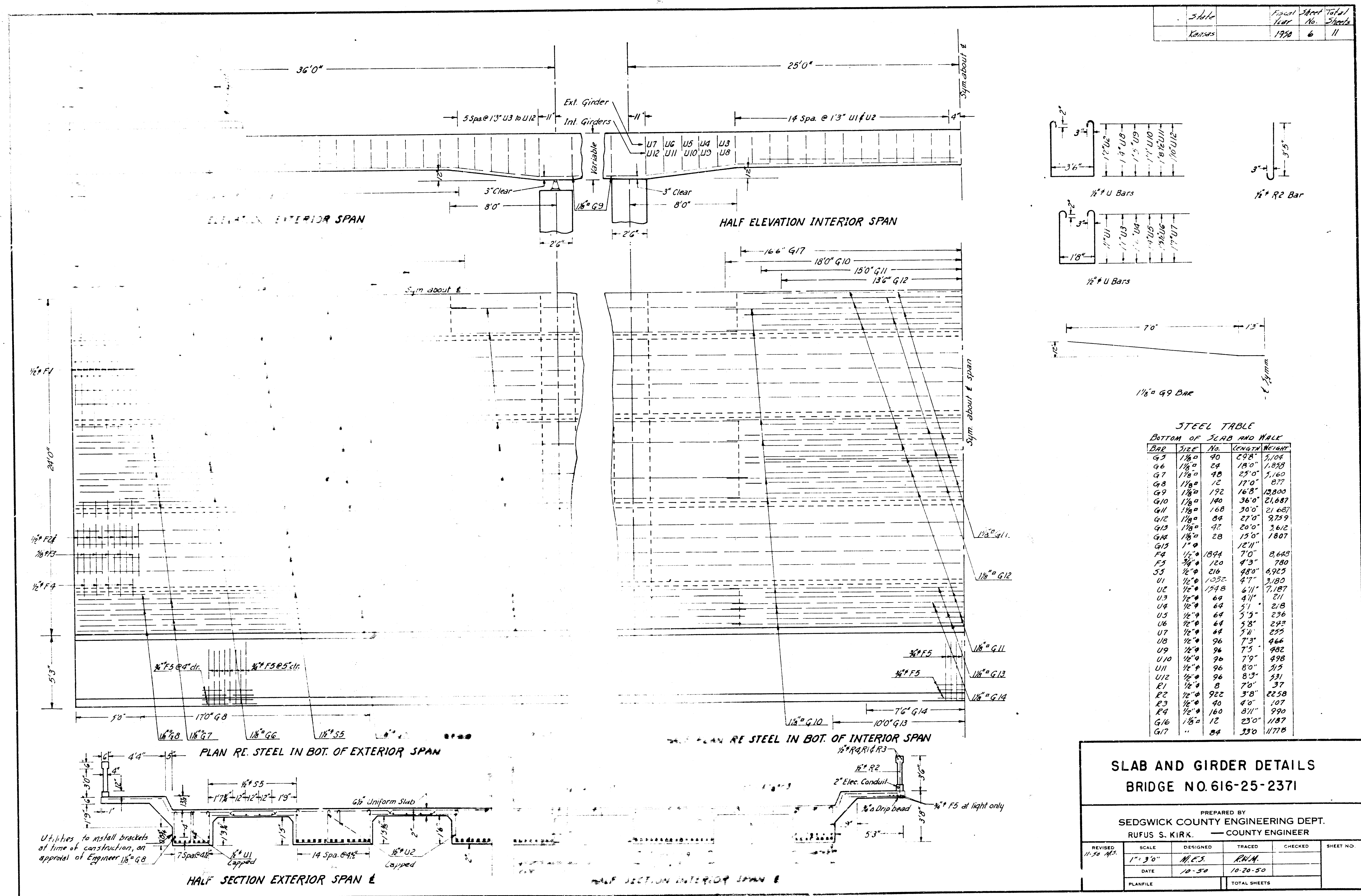
PROFILE	SECTION	DATE
17275	Shawnee	8-30
NOTE: BORN IN OF WAY CHANGED		

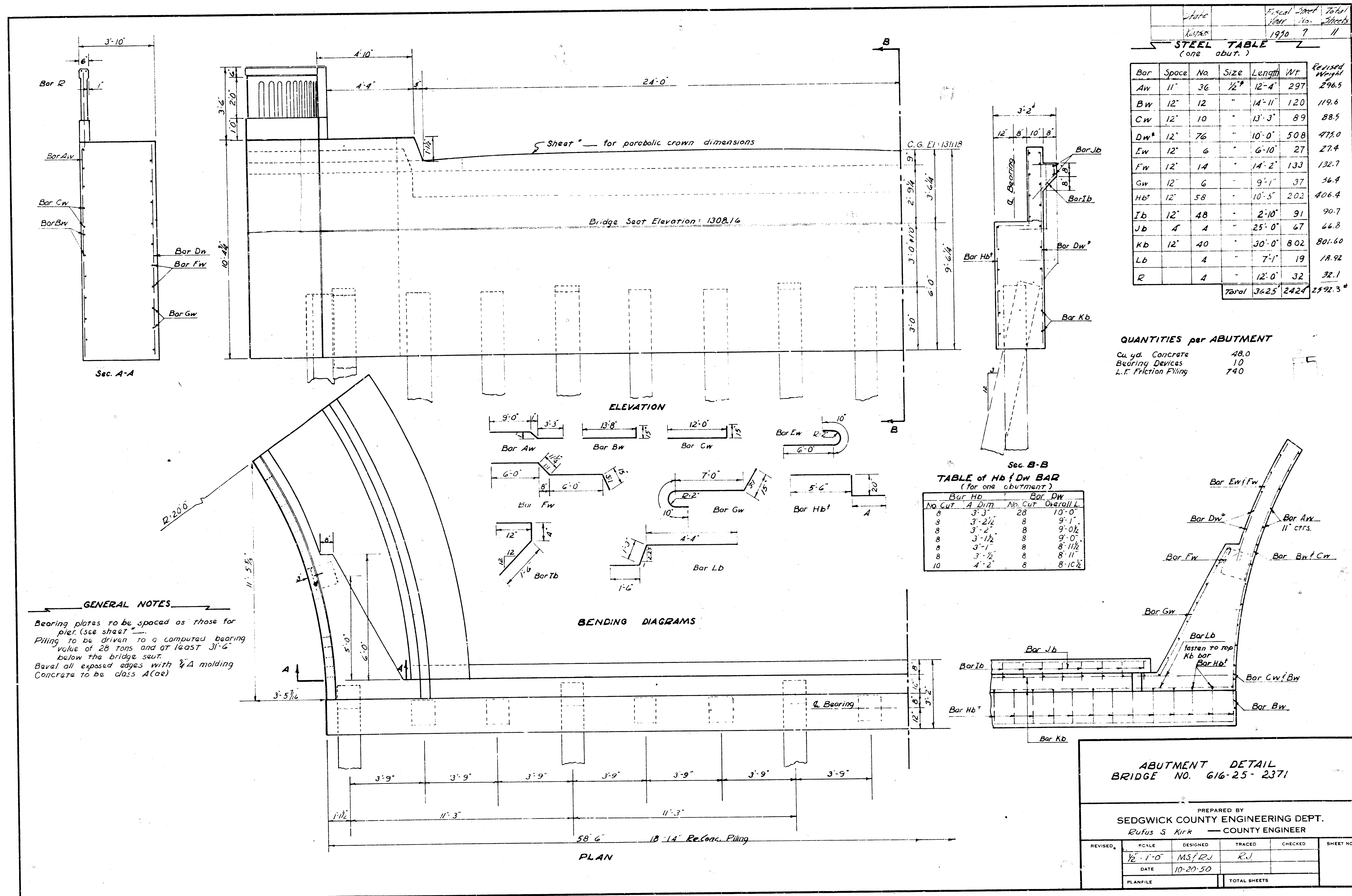


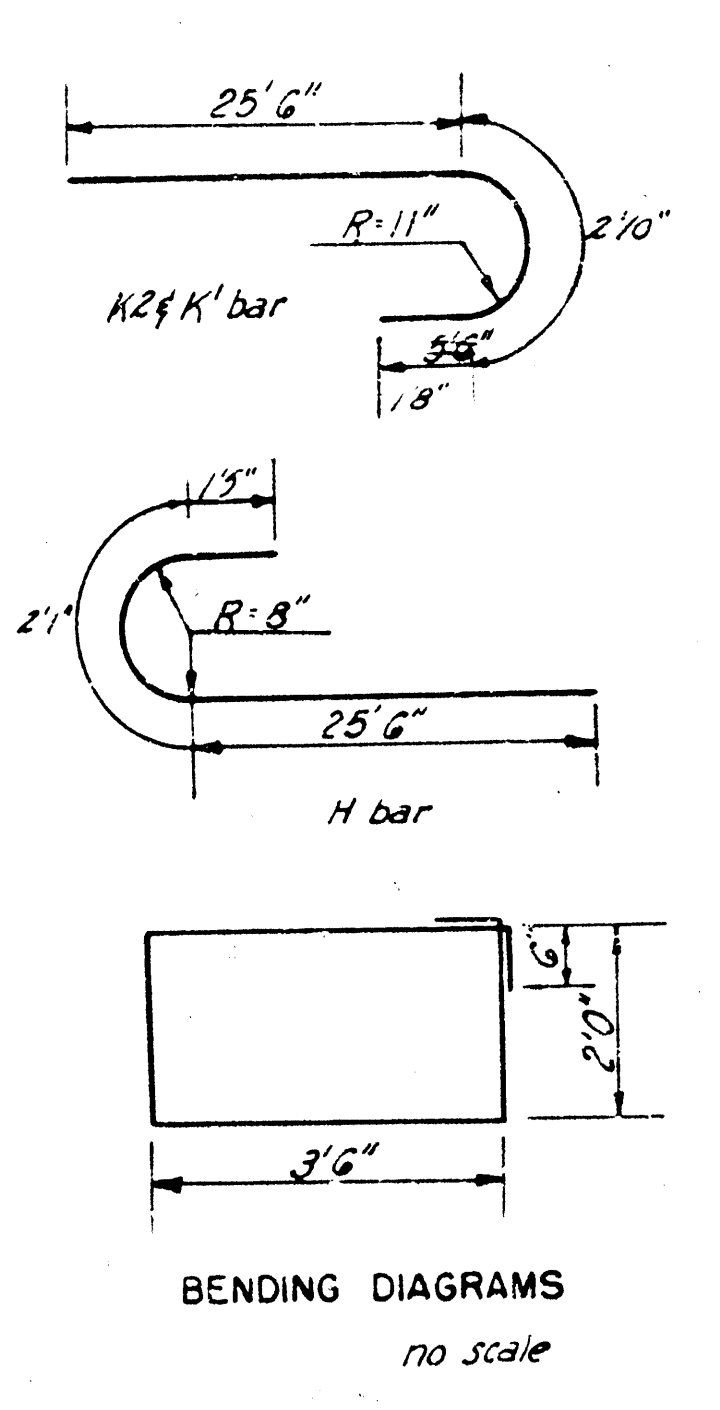
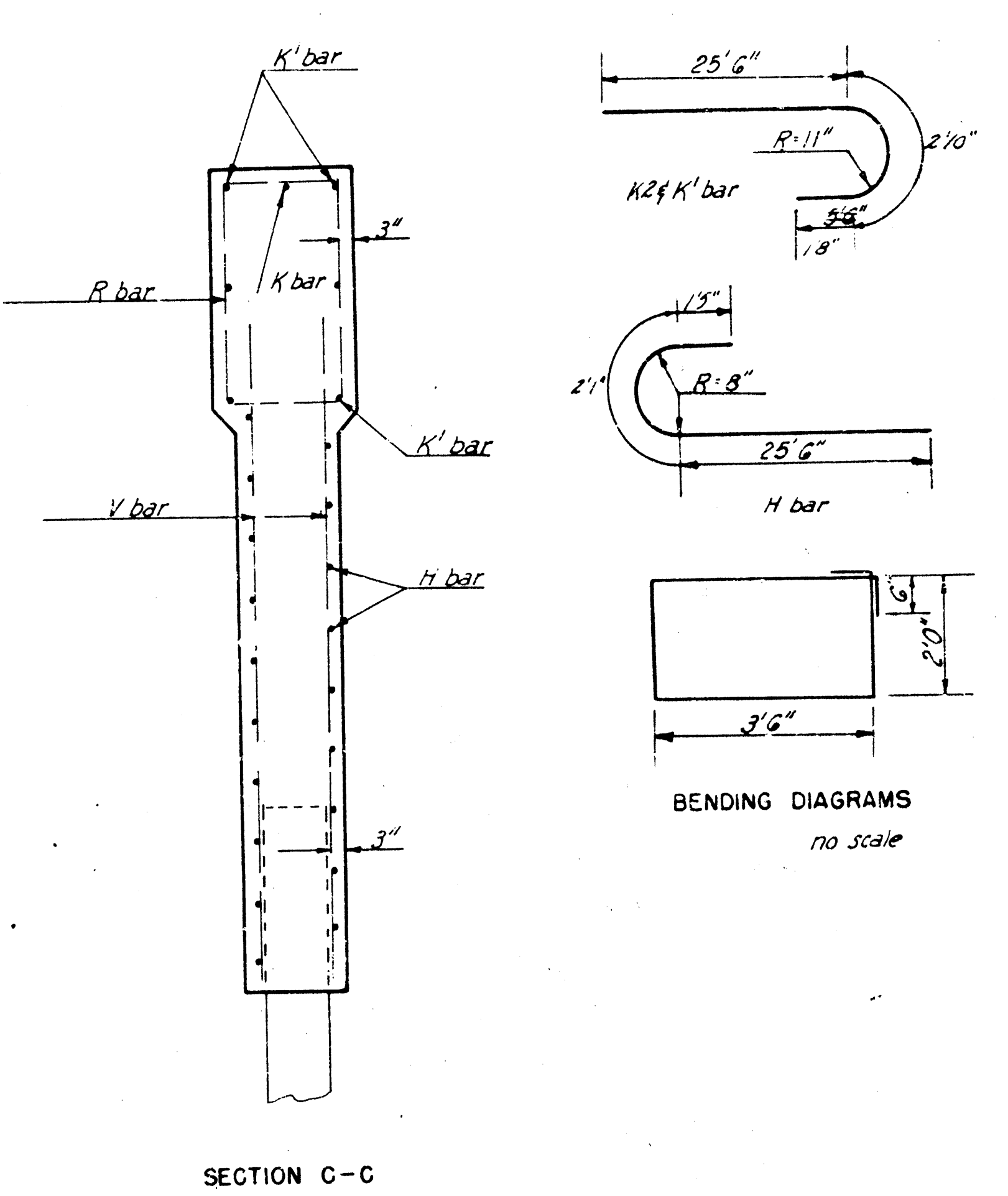
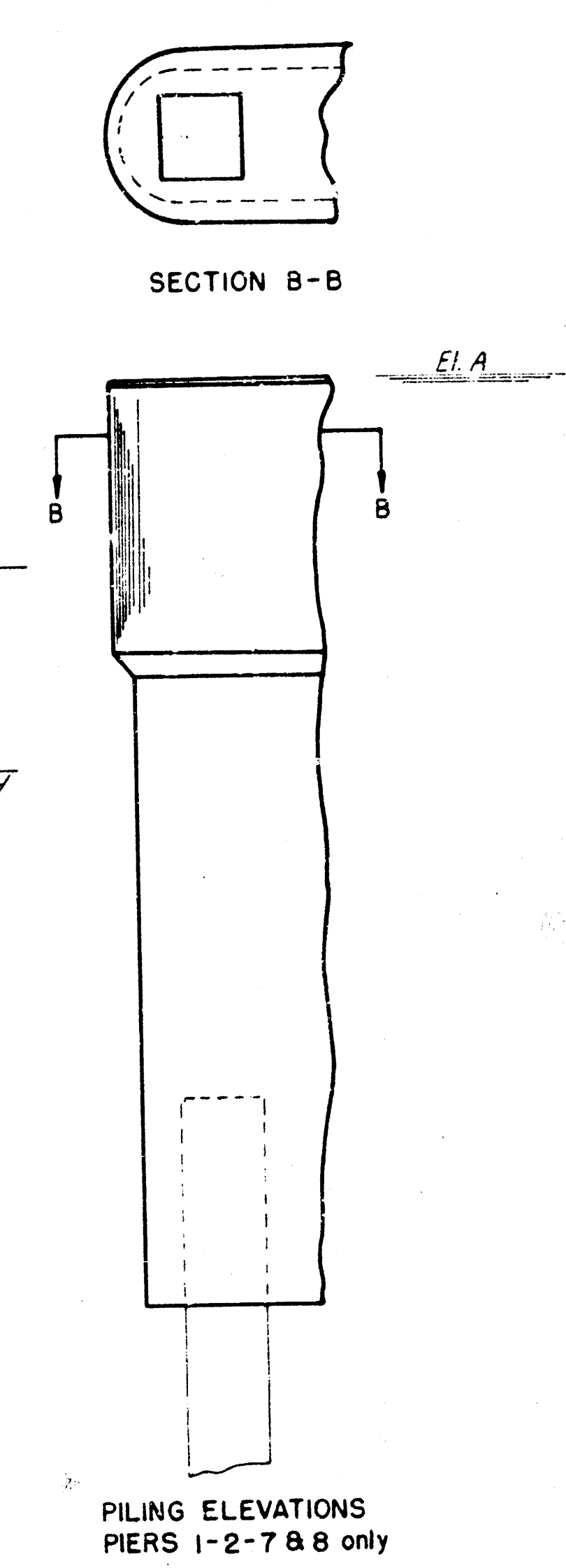
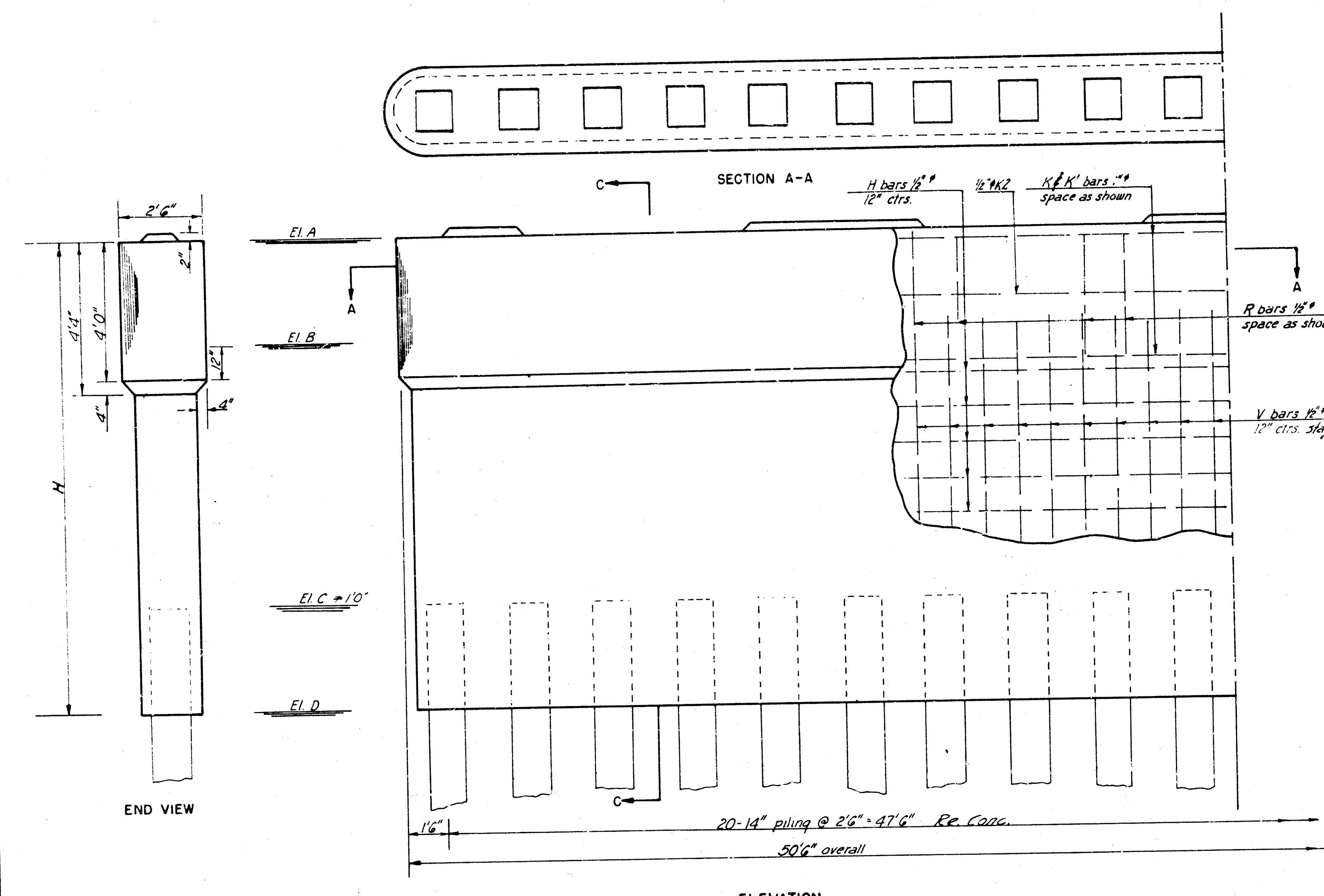












PIER	TABLE of ELEVATIONS				TABLE of STEEL										QUANTITIES				A		
	ELEVATION A	ELEVATION B	ELEVATION C	ELEVATION D	Number 1/2" R bars	Length 1/2" R bars	Number 1/2" H bars	Length 1/2" H bars	Number 1/2" K bars	Length 1/2" K bars	Number 1/2" V bars	Length 1/2" V bars	Number 1/2" H bars	Length 1/2" H bars	8" 1/2" 1/4" Bearing PL	L.F. Tied Pile	L.F. Friction Pile	Cu Yds Concrete	Lbs. Re-bar		
#1	1307.55	1304.55	1297.55	1294.55	40	120	2	266	8	344	51	106	26	900	10	406	810	43.62	13	4,300	1928.3
#2	1307.70	1304.70	1297.70	1294.70	40	120	2	266	8	344	51	106	32	900	10	0	--	53.73	16	4,300	2146.7
#3	1308.53	1305.53	1289.53	1286.53	40	120	2	266	8	344	51	106	44	900	0	--	--	80.13	22	4	2583.6
#4	1308.58	1305.58	1290.58	1287.58	40	120	2	266	8	344	51	106	42	900	0	--	--	76.74	21	4	2510.8
#5	1308.58	1305.58	1291.58	1288.58	40	120	2	266	8	344	51	176	40	900	0	406	--	73.35	20	4	2437.9
#6	1308.53	1303.53	1291.53	1288.53	40	120	2	266	8	344	51	176	40	900	0	--	--	73.35	20	4	2437.9
#7	1307.70	1304.70	1290.70	1287.70	40	120	2	266	8	344	51	176	40	900	10	406	--	73.35	20	4	2437.9
#8	1307.55	1304.55	1293.55	1290.55	40	120	2	266	8	344	51	146	34	900	10	406	--	63.18	14	4	2219.3
1297.55					30"										TOTALS		40	1216	549.5	18,702.6	

Class A (C) through Bevel
triangular not
All dimensions
reinforcing steel

Revised
Lb. Rebar

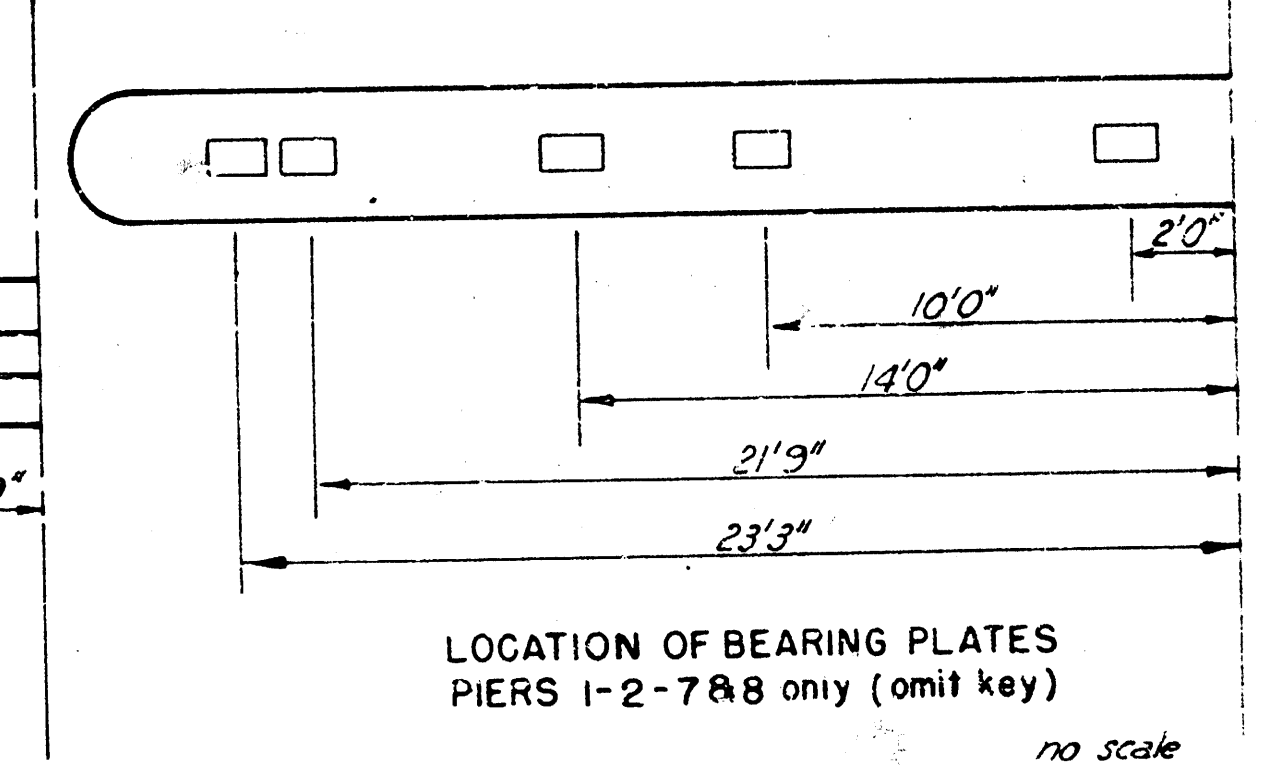
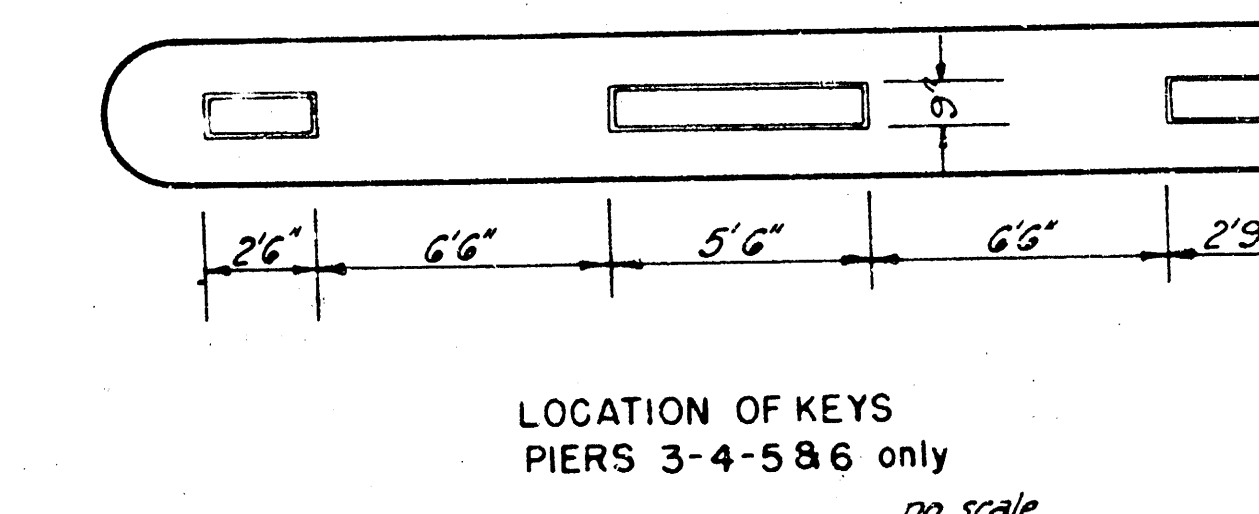
2017

Sheet 5-1

GENERAL NOTES

Class A (AC) Concrete shall be used throughout. Bevel all exposed edges with a 1/4" triangular molding unless otherwise noted.

All dimensions shown relative to 1/2" of bar.



PIER DETAILS

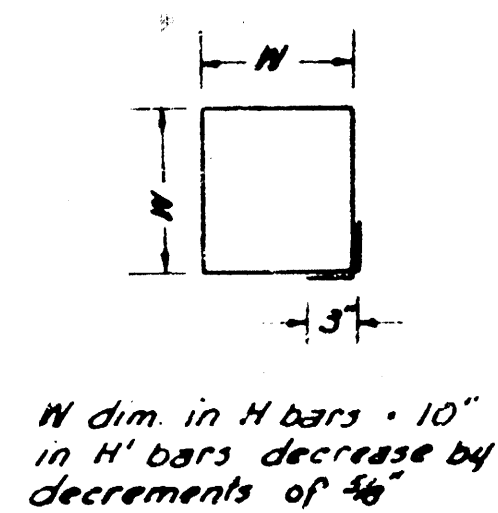
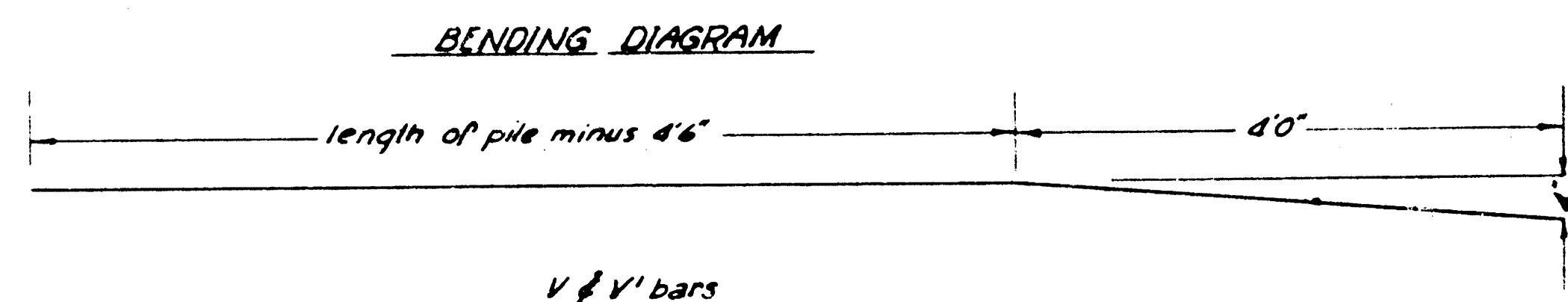
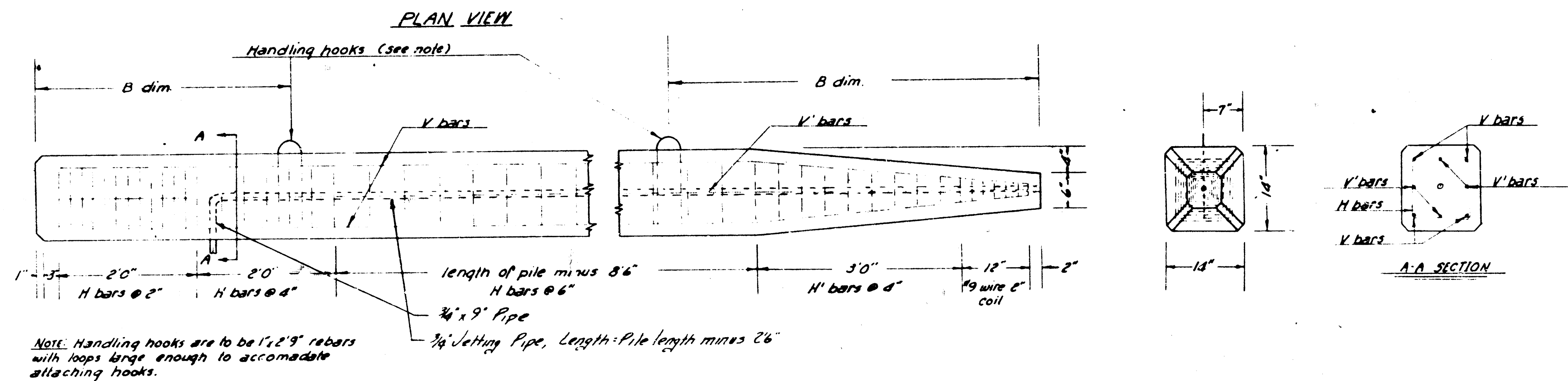
BRIDGE No. 616-25-2371

PREPARED BY
SEDGWICK COUNTY ENGINEERING DEPT.
COUNTY ENGINEER

REVISION	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
1/2" = 1'0"	M.S. & P.J.	R.M.			
DATE					
PLANFILE					

TOTAL SHEETS

State	Project	Sheet	Total
Texas	1950	11	11



GENERAL NOTES:

Piling are to be constructed of class A concrete mix to be of such consistency that the concrete will be thoroughly compacted by tamping & vibrating. Piling are to be lifted with handling hooks (placed at B dim.) only. Top of piling must have a smooth and level surface, where not defined in forming, surface must be leveled by grinding or other suitable methods. All exposed edges are to have a 1" bevel.

Piling should remain in forms for 14 days and cured for a minimum of 6 weeks before being driven.

Piling are to be painted with suitable coating 5' above & 5' below normal water line. Each pile shall be stamped or marked with the date of its manufacture.

All steel shall have 2" cover unless otherwise noted.

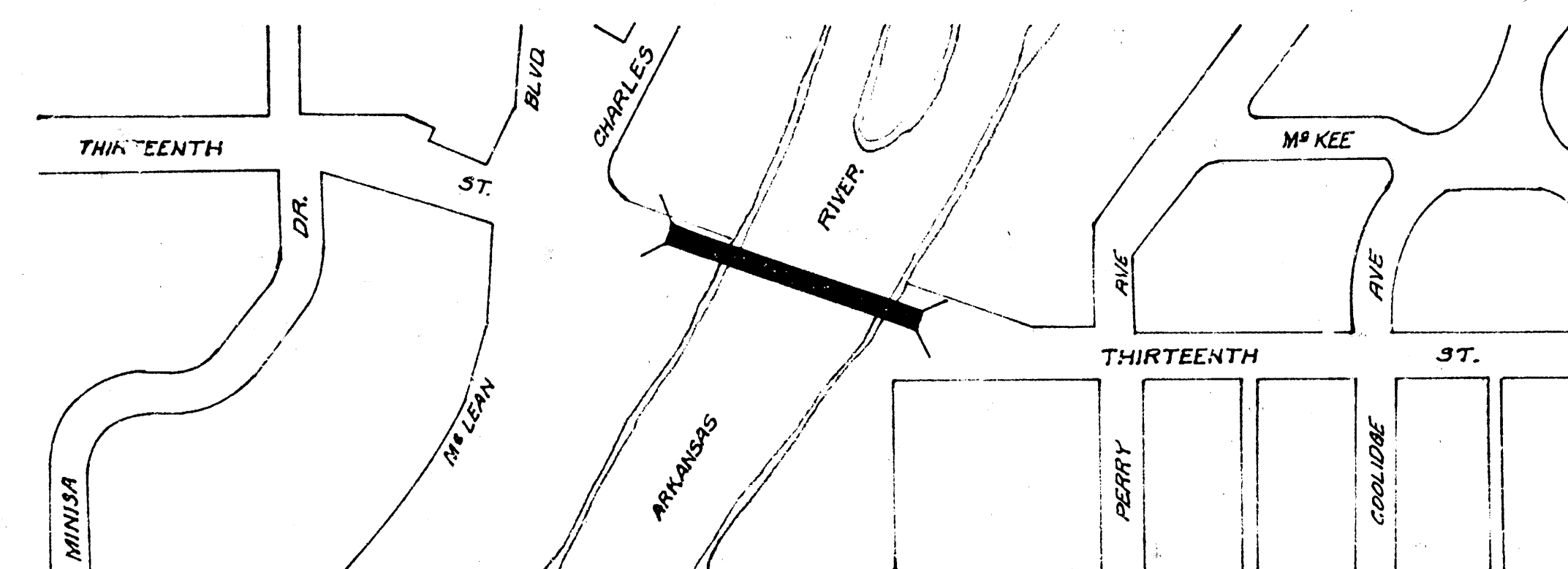
BILL OF MATERIAL											
20' PILE						32' PILE					
Bar	V	V'	H	H'	Bar	V	V'	H	H'	Bar	V
Number	4	4	9	9	Number	4	4	9	9	Number	4
Size	#4	#4	#6	#6	Size	#4	#4	#6	#6	Size	#4
Length	20'	20'	40'	40'	Length	32'	32'	40'	40'	Length	32'
B dim.	14"	14"	7"	7"	B dim.	14"	14"	7"	7"	B dim.	14"
Total Steel	128'					Total Steel	128'				
Concrete	1.04 Cu Yds					Concrete	1.04 Cu Yds				
24' PILE						36' PILE					
Bar	V	V'	H	H'	Bar	V	V'	H	H'	Bar	V
Number	4	4	9	9	Number	4	4	9	9	Number	4
Size	#4	#4	#6	#6	Size	#4	#4	#6	#6	Size	#4
Length	24'	24'	40'	40'	Length	36'	36'	40'	40'	Length	36'
B dim.	14"	14"	7"	7"	B dim.	14"	14"	7"	7"	B dim.	14"
Total Steel	128'					Total Steel	128'				
Concrete	1.04 Cu Yds					Concrete	1.04 Cu Yds				
28' PILE						40' PILE					
Bar	V	V'	H	H'	Bar	V	V'	H	H'	Bar	V
Number	4	4	9	9	Number	4	4	9	9	Number	4
Size	#4	#4	#6	#6	Size	#4	#4	#6	#6	Size	#4
Length	28'	28'	40'	40'	Length	40'	40'	40'	40'	Length	40'
B dim.	14"	14"	7"	7"	B dim.	14"	14"	7"	7"	B dim.	14"
Total Steel	128'					Total Steel	128'				
Concrete	1.04 Cu Yds					Concrete	1.04 Cu Yds				

CONCRETE PILING 14" X 14"

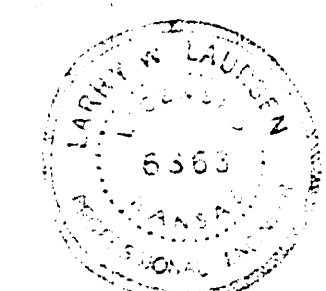
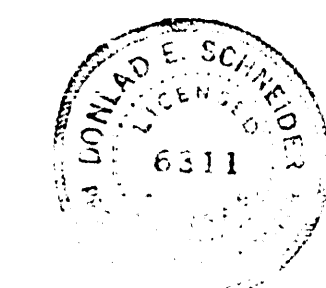
PREPARED BY
SEDGWICK COUNTY ENGINEERING DEPT.
H. J. GREELLY COUNTY ENGINEER

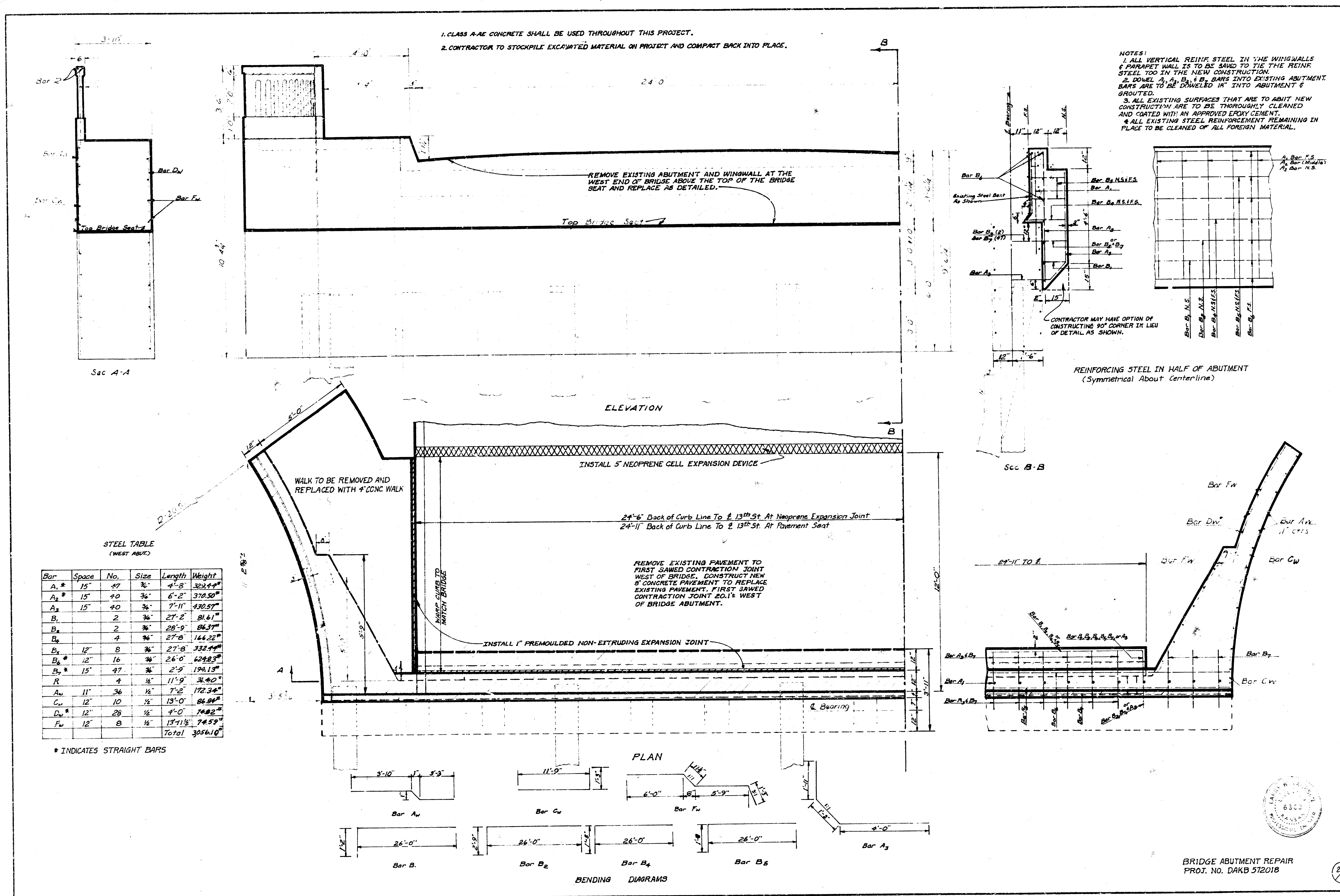
REVISION	SCALE	DESIGNED	TRACED	CHECKED	SHEET NO.
	1"=10'	Baskett	Marion	7/16	2-7-4
	DATE	12-47			
	PLANFILE			TOTAL SHEETS	

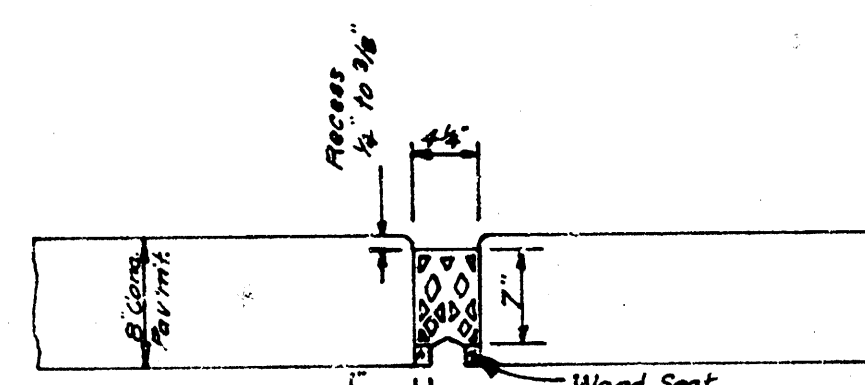
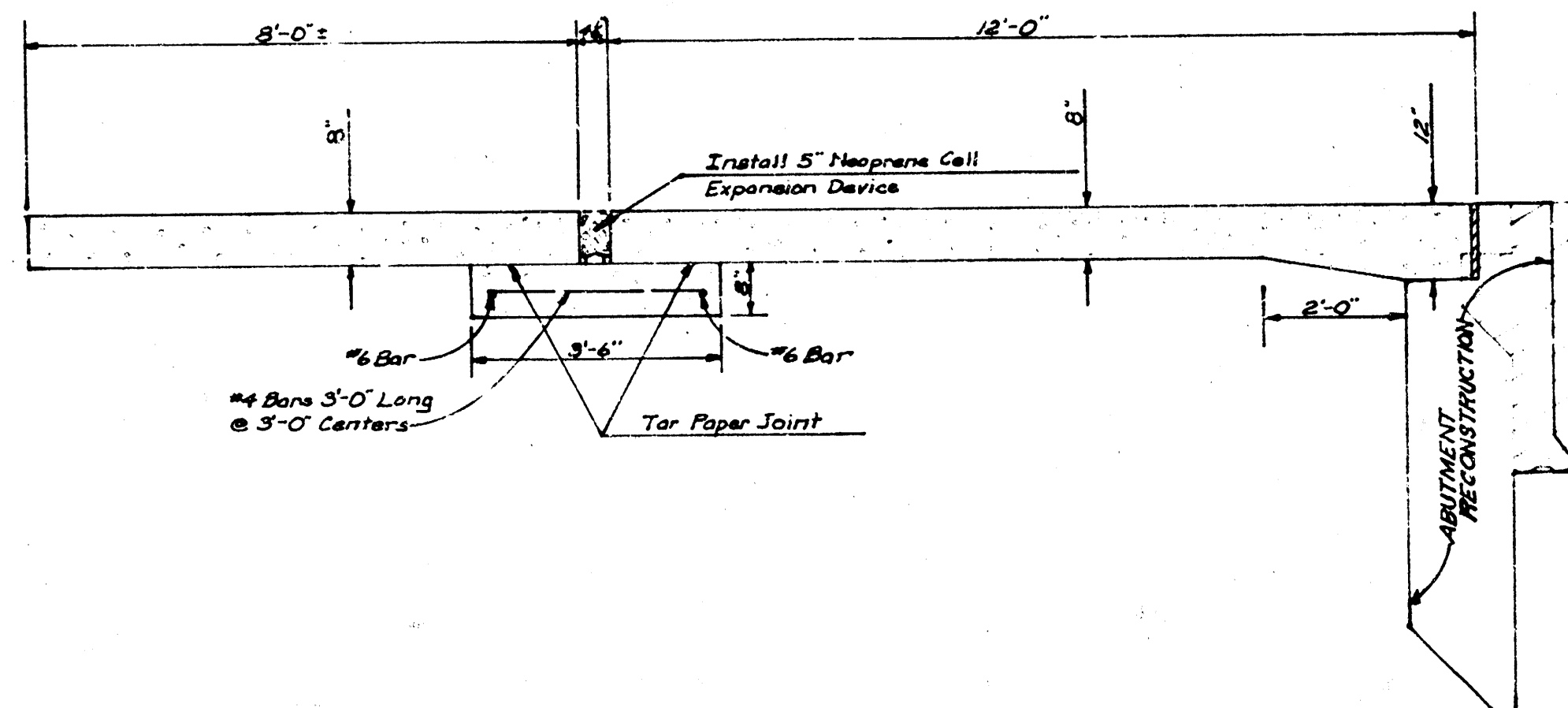
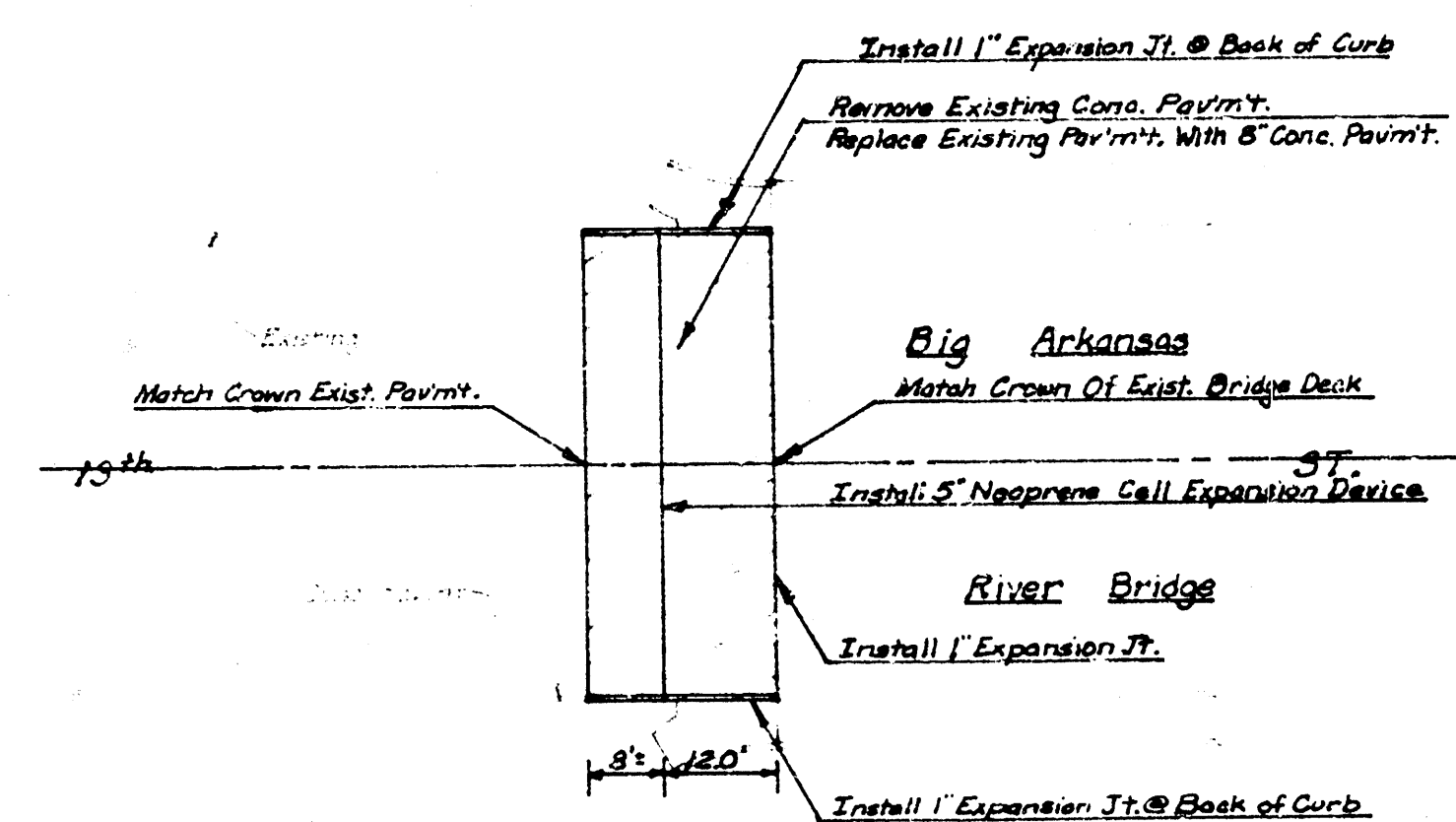
13th STREET BRIDGE OVER BIG ARKANSAS RIVER
 BRIDGE ABUTMENT REPAIR
 PROJ. NO. DAKB 572018
 CITY OF WICHITA, KANSAS
 R. W. LINN, CITY ENGINEER



- GENERAL NOTES:
1. THE LUMP SUM BID ITEM OF "ABUTMENT REPAIR" SHALL INCLUDE ALL COSTS OF:
 - A. REMOVAL & RECONSTRUCTION OF WEST ABUTMENT & WINGWALLS AS DETAILED.
 - B. REMOVAL & REPLACEMENT OF CONCRETE PAVEMENT, CONCRETE CURBS, & CONCRETE SIDEWALK.
 - C. REPAIR OF EAST ABUTMENT PARAPET WALL.
 - D. EXCAVATION & COMPACTION OF EMBANKMENT AS REQUIRED.
 - E. INSTALLATION OF 5" NEOPRENE CELL EXPANSION DEVICE.
 - F. REMOVAL & REPLACEMENT OF BRIDGE ROCKERS & ROCKER PLATES AT BOTH ABUTMENTS.
 - G. EPOXY REPAIR OF THE FRACTURES IN THE WEST ABUTMENT BELOW THE BRIDGE SEAT.
 2. LOADING H-20-44 A.A.S.H.O. DESIGN STRESS f_c 2000 psi, f_t 8000 psi $n = 9$ CLASS A-AC CONCRETE TO BE USED THROUGHOUT. BEVEL ALL EXPOSED EDGES WITH $\frac{3}{4}$ " & MOLDING UNLESS OTHERWISE NOTED.
 3. ANY DAMAGE TO THE EXISTING STRUCTURE DUE TO NEGLIGENCE ON THE PART OF THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
 4. ALL ACCESSIBLE PARTS OF THE STRUCTURAL STEEL SHALL RECEIVE ONE COAT OF TINTED ALUMINUM PAINT FOLLOWED BY ONE COAT OF ALUMINUM PAINT AFTER ERECTION. (STRUCTURAL STEEL AT ABUTMENTS ONLY.)
 5. SHOP PAINTING OF ALL STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS SET FORTH IN SECTIONS F2-5(C), Q, & Q₂ OF THE STANDARD SPECIFICATIONS FOR STATE ROAD & BRIDGE CONSTRUCTION OF THE STATE HIGHWAY COMMISSION OF KANSAS 1966 EDITION.
 6. FIELD PAINTING OF ALL STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS SET FORTH IN SECTION F2-6(a) OF THE STANDARD SPECIFICATIONS FOR STATE ROAD & BRIDGE CONSTRUCTION OF THE STATE HIGHWAY COMMISSION OF KANSAS 1966 EDITION.
 7. ALL STRUCTURAL STEEL SHALL CONFORM TO THE SPECIFICATIONS SET FORTH IN SECTION U5-2 OF THE STANDARD SPECIFICATIONS FOR STATE ROAD & BRIDGE CONSTRUCTION OF THE STATE HIGHWAY COMMISSION OF KANSAS 1966 EDITION.
 8. GROUTING REINFORCING STEEL IN OLD CONCRETE SHALL CONFORM TO PARAGRAPH 66P-17 OF SUPPLEMENT NUMBER ONE TO THE STANDARD SPECIFICATIONS FOR STATE ROAD & BRIDGE CONSTRUCTION OF THE STATE HIGHWAY COMMISSION OF KANSAS 1970 EDITION.
 9. THOROUGHLY SWAB THE BRIDGE-SEAT BEARING AREA WITH RED LEAD PAINT AND PLACE UPON IT THREE LAYERS OF TWELVE TO FOURTEEN OUNCE DUCK, EACH LAYER BEING THOROUGHLY SWABBED ON ITS TOP SURFACE WITH RED LEAD PAINT. PLACE THE SUPERSTRUCTURE SHOES OR PEDESTALS IN POSITION WHILE THE PAINT IS PLASTIC.
 10. FORMWORK, CONCRETE MATERIALS, & CONCRETE PROPORTIONS SHALL CONFORM TO THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS FOR STATE ROAD & BRIDGE CONSTRUCTION OF THE STATE HIGHWAY COMMISSION OF KANSAS 1966 EDITION.
 11. CONTRACTOR TO BLOCK OUT FOR PROPOSED ELECTRICAL CONDUITS AT WEST ABUTMENT. CONTRACTOR TO CONTACT KANSAS GAS & ELECTRIC COMPANY FOR LOCATION OF CONDUITS.



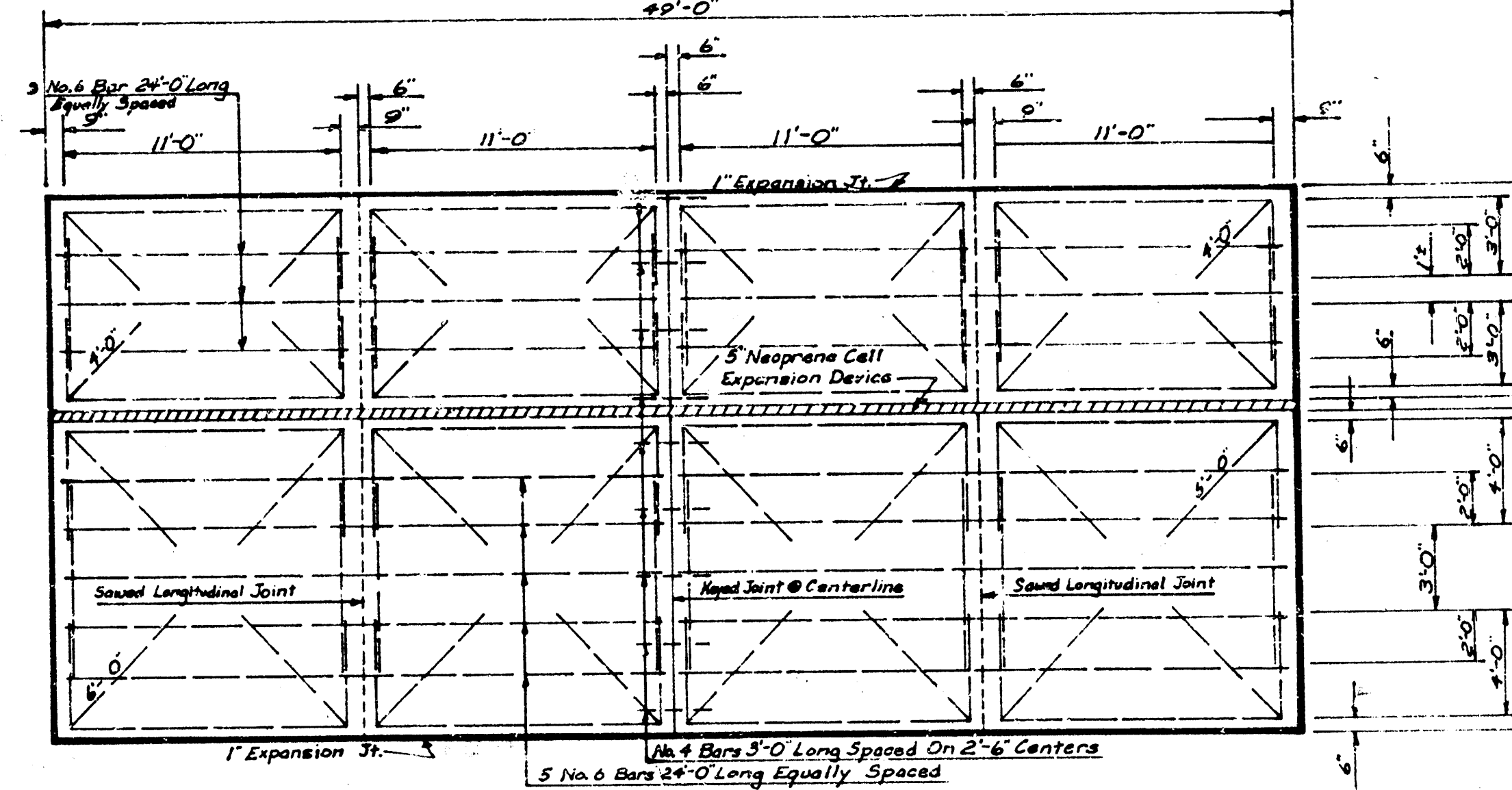




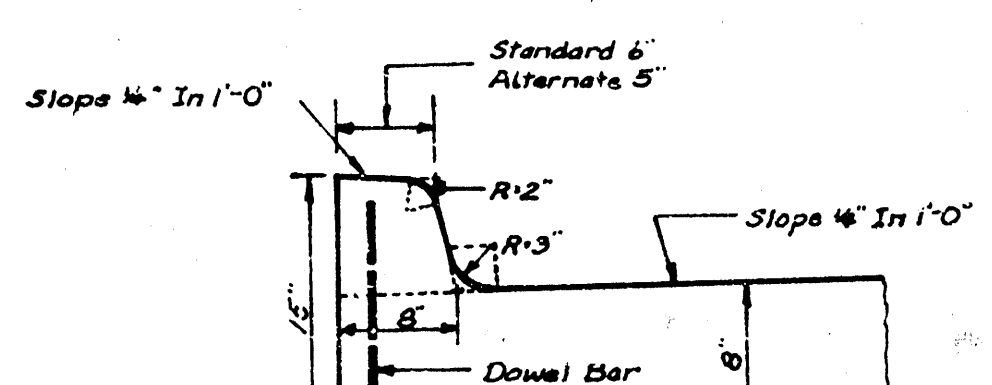
Install 5" Wide Prefabricated Open Cell Neoprene Joint Seal. Use "H" Series Delsatic Bridge Seal Catalog No. H-5000, D.S. Brown Co. Or An Approved Equal.

The Neoprene Joint Material Shall Be Machine Installed With Equipment Capable Of Placing The Strips At The Specified Depth Without Increasing Or Decreasing The Length As Taken From The Roll Or Box By More Than 5%. No Splices Will Be Permitted Across The Roadway. 6' Long Sections Are To Be Installed Vertical In The Curb Section Of The Roadway Pavement. The Seals Shall Be Seamed In Place With An Approved Lubricant Adhesive Which Shall Cover Both Sides Of The Seal Over The Full Contact Area.

EXPANSION DEVICE DETAILS

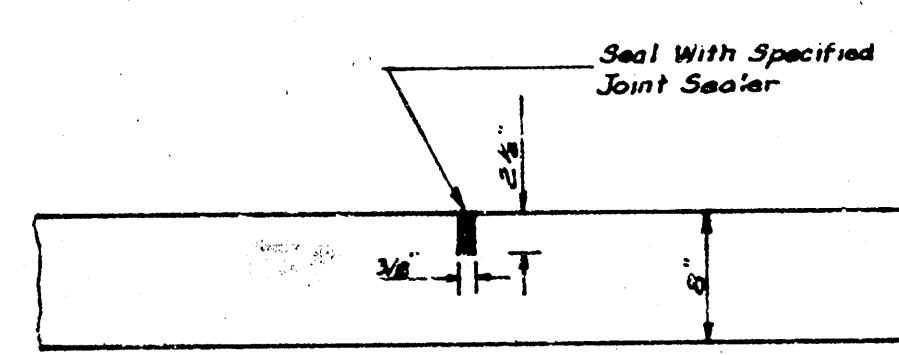


STEEL PATTERN FOR 8\"/>



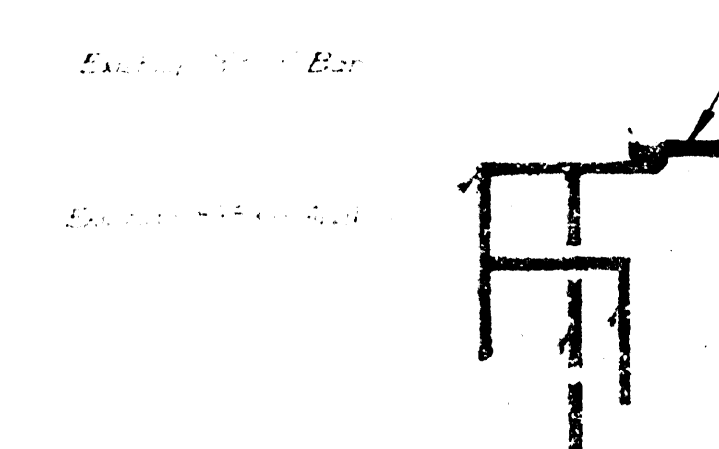
DETAIL OF INTEGRAL CURB

Integral Curb Shall Be Cut Through To The Pavement In Uniform Lengths Of Not More Than Ten Foot Intervals Between Expansion Joints. Expansion Joints Having The Same Thickness As The Expansion Joints In The Pavement Shall Be Constructed In The Integral Curb At The Specified Locations. Number 4 Or Number 6 Dowels Shall Be Installed In The Integral Curb As Shown On Approximately 2'-6\"/>

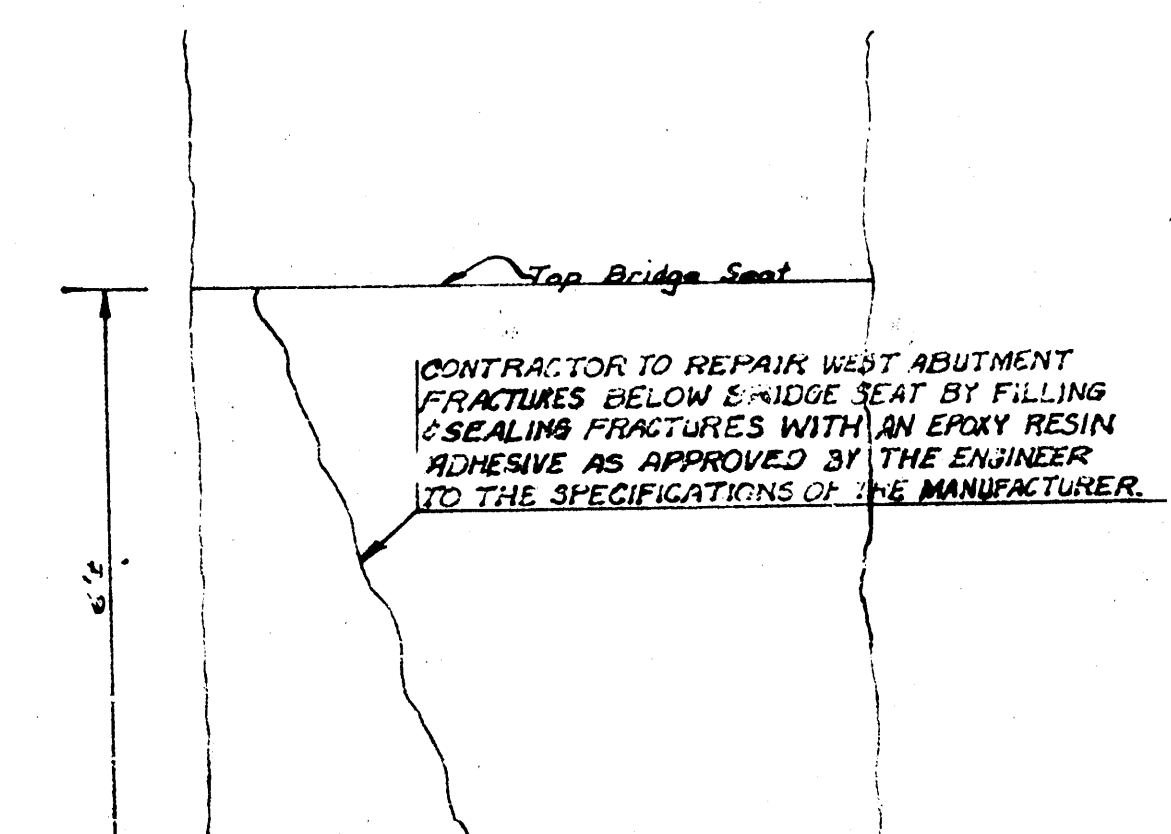


DETAIL OF SAWED LONGITUDINAL JOINT

Contractor To Remove Existing Concrete As Needed To Weld 2 1/2\"/>



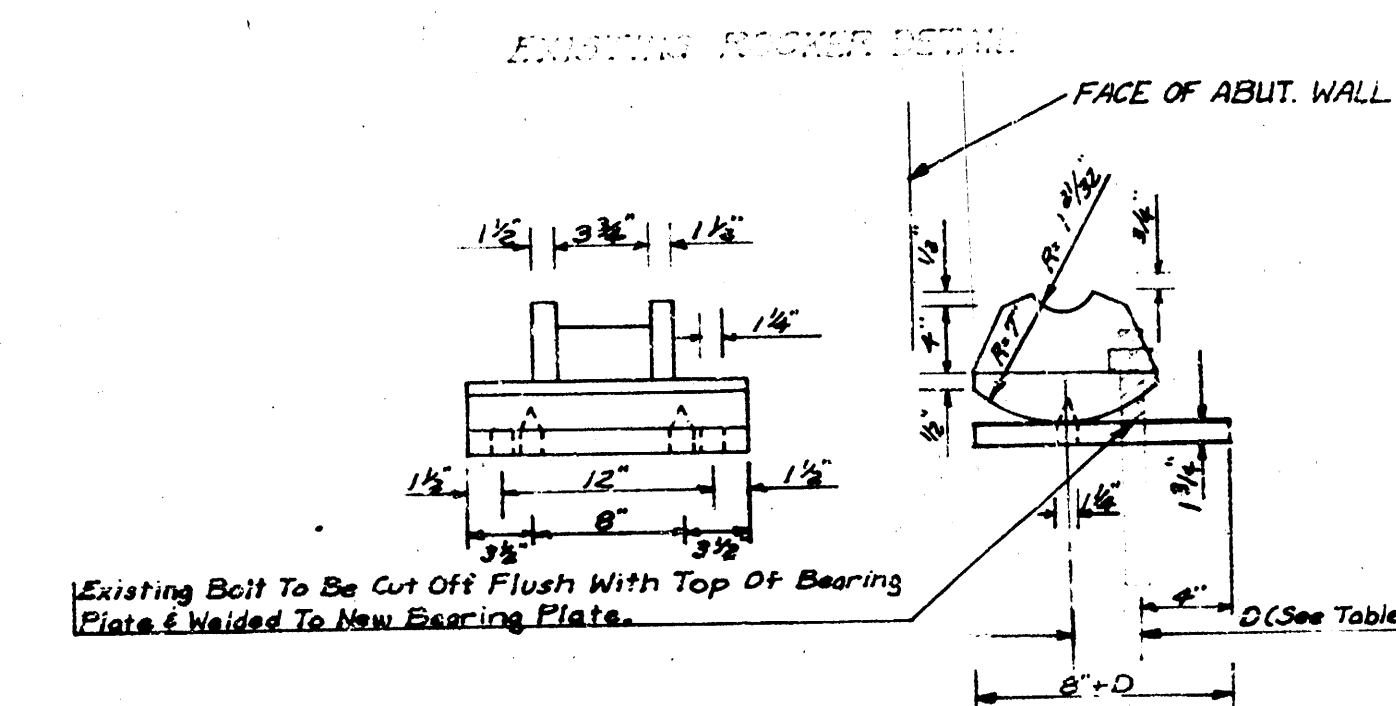
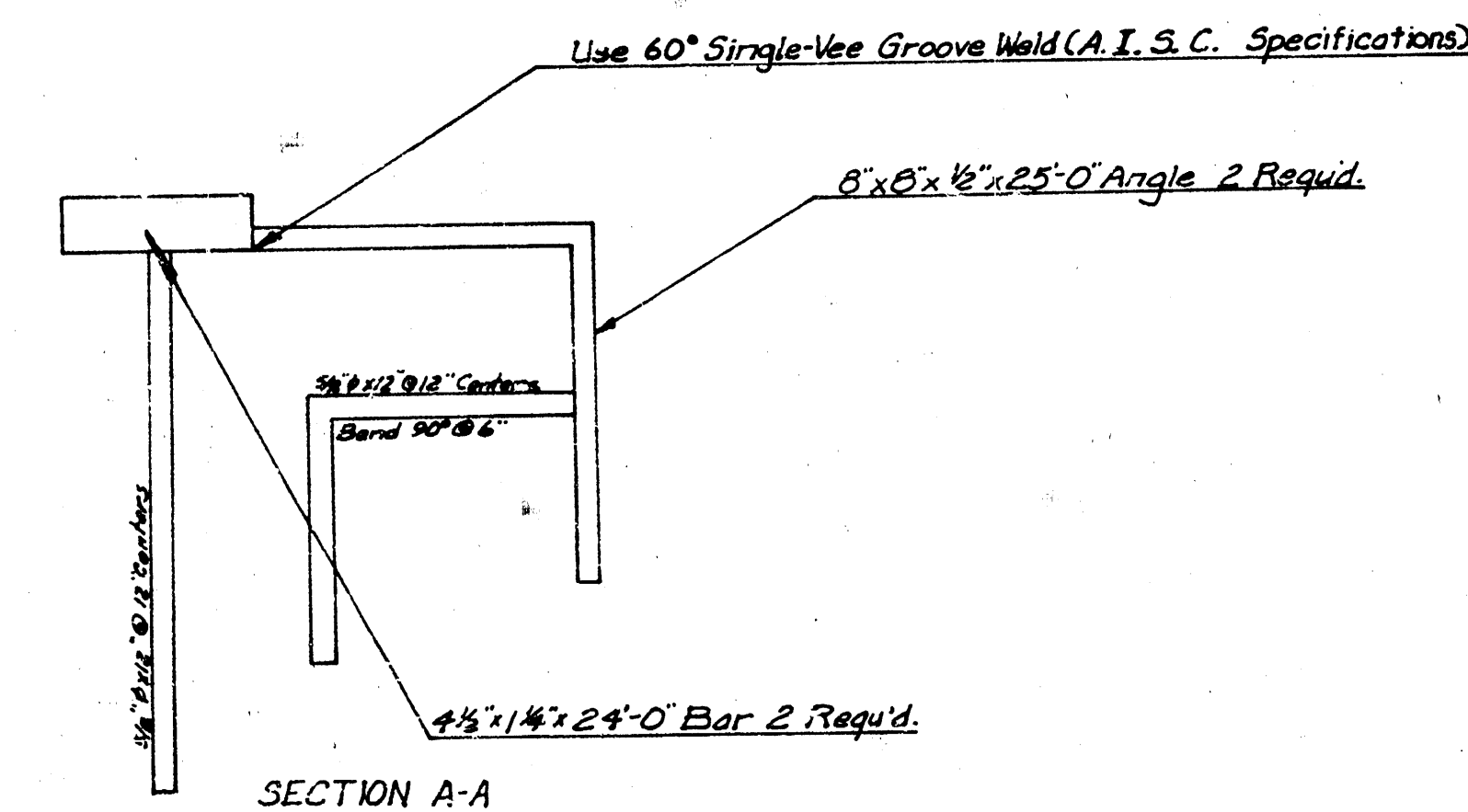
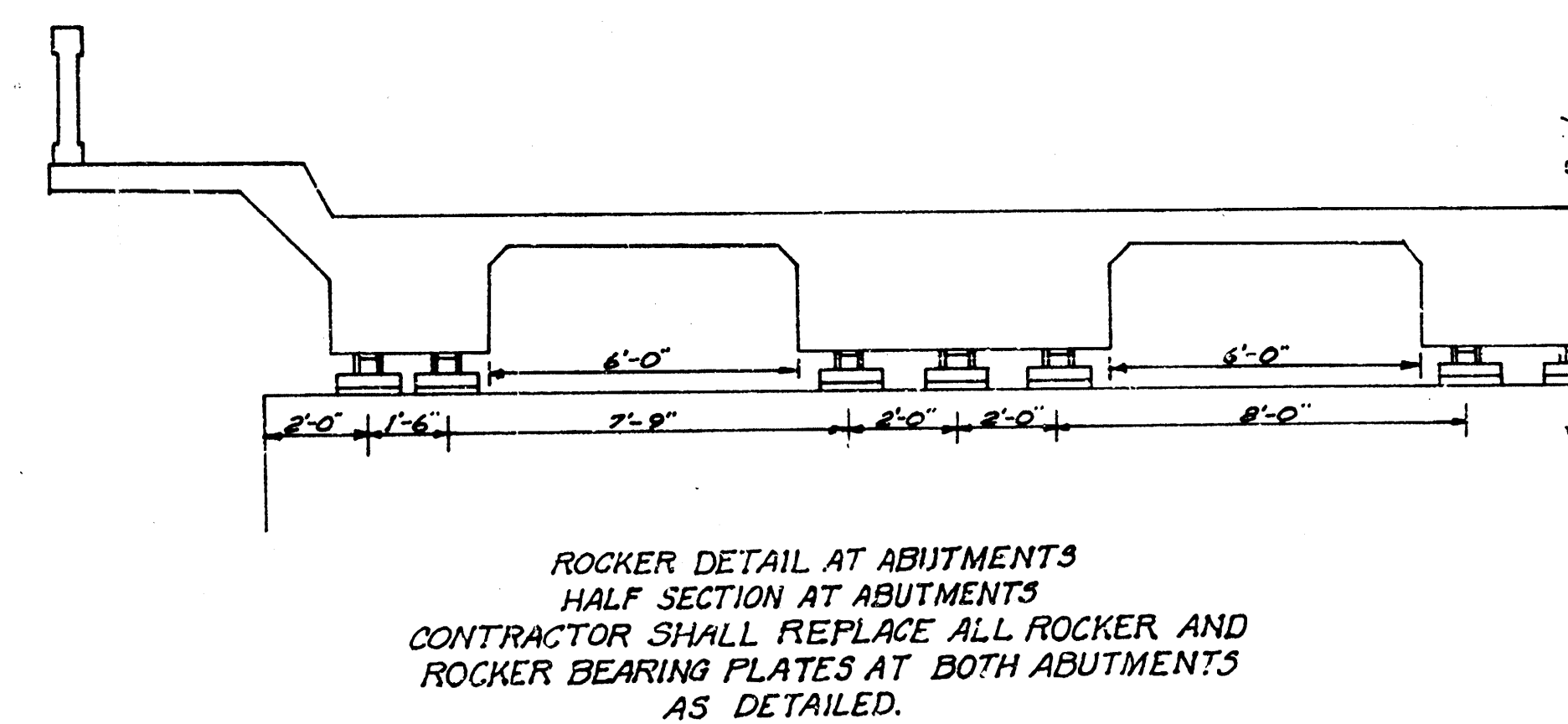
EAST ABUTMENT PARAPET WALL



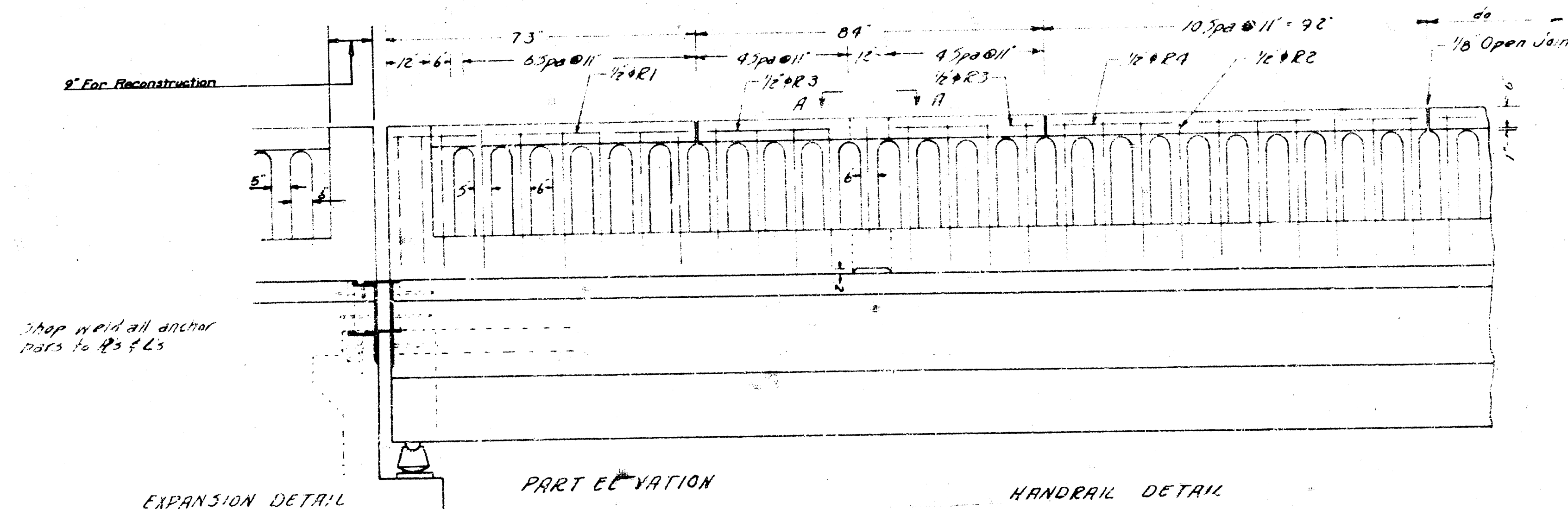
WEST BRIDGE SEAT REPAIR DETAIL



BRIDGE ABUTMENT REPAIR
PROJ. NO. DAKB 572018



PROPOSED ROCKER DETAIL																
Rocker Number	End	1	2	3	4	5	6	7	8	9	10	11	12	13	End	
Dimension D (inches)	N	1 1/4"	1 1/4"	1 3/4"	1 5/8"	1 1/2"	1 1/4"	1 1/4"	1 1/4"	1 3/8"	1 1/2"	1 1/4"	1 3/4"	1 5/8"	S	West Abutment
Dimension DX "	N	2 1/4"	2 1/4"	2 3/4"	2 3/4"	2 3/4"	2 3/4"	2 3/4"	2 3/4"	2 3/4"	2 3/4"	2 3/4"	2 3/4"	1 1/2"	S	East Abutment
SOUTH																



BRIDGE ABUTMENT REPAIR
PROJ. NO. DAKB 572018



④