

CITY OF WICHITA

SEDGWICK COUNTY, KANSAS

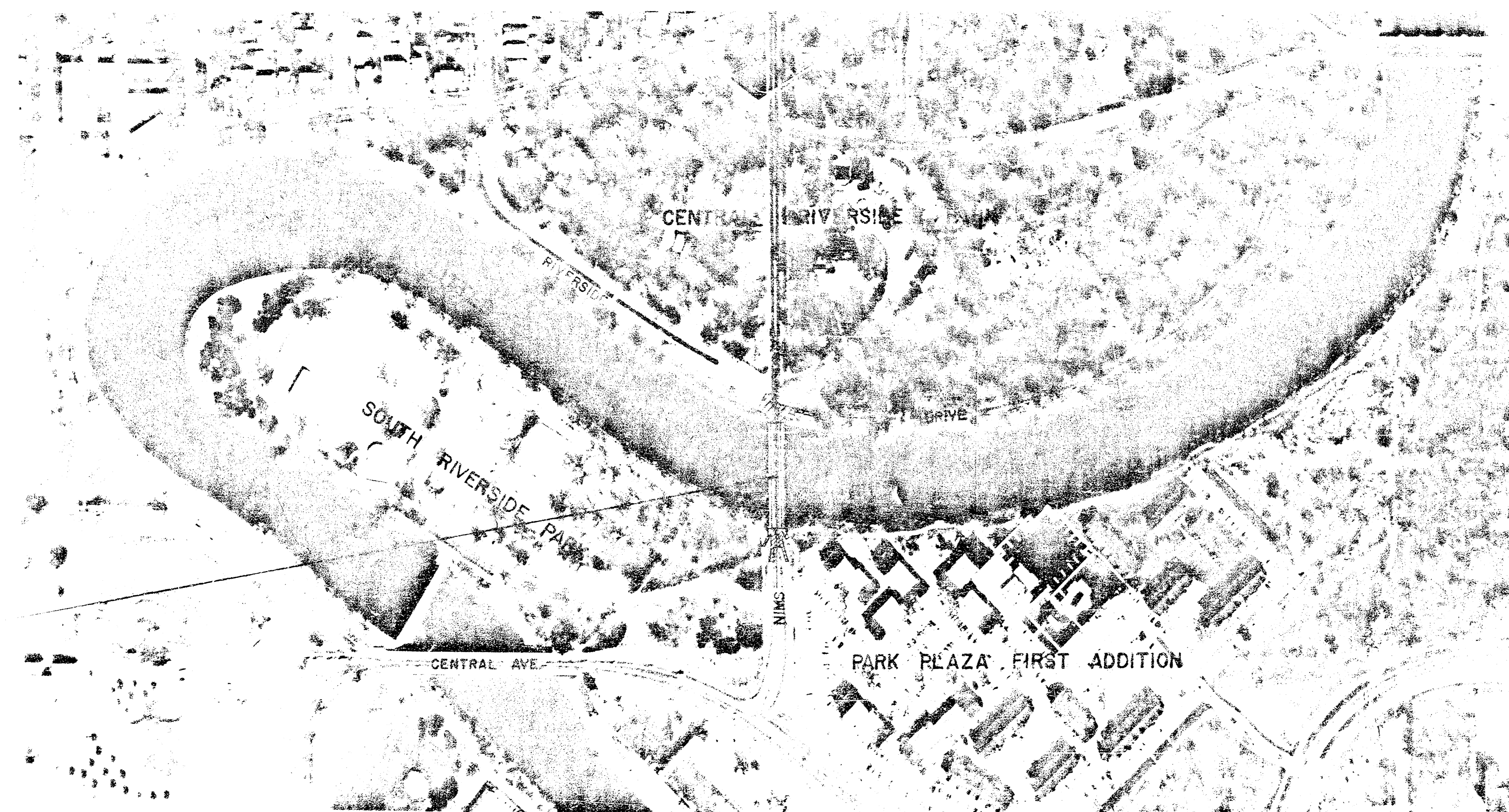
WOODMAN BRIDGE

PROJECT NO. DAKB 576042

INDEX OF SHEETS

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16	BRIDGE EXCAVATION
17	SUPPORTS AND SPACERS FOR REINFORCING STEEL

STA 11+75
45'-3" AT 52'-45" CONT. R.C.
SLAB SPANS 28'-0"
ROADWAY AND TWO 8'-0"
SIDEWALKS



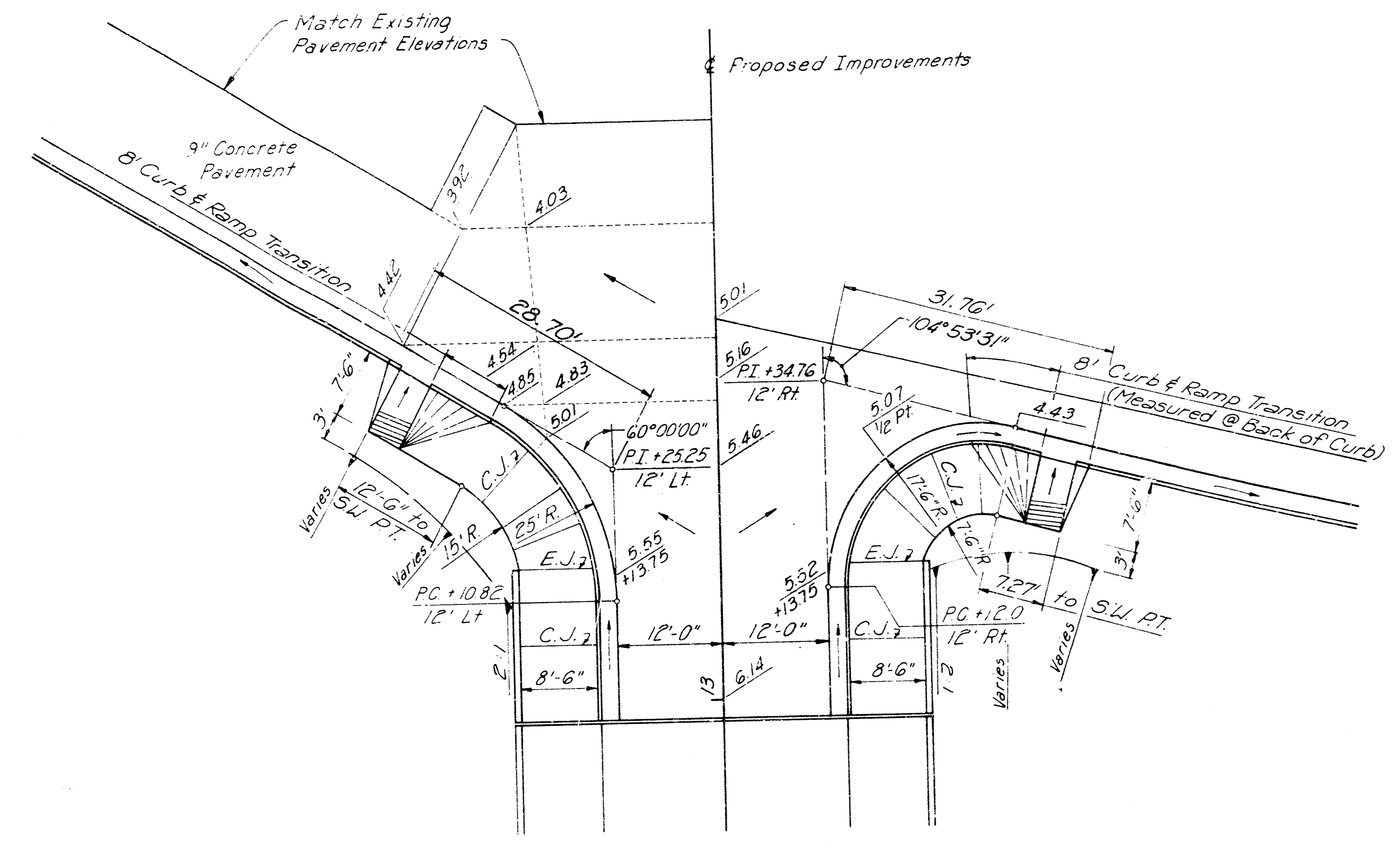
SCALE 1" = 200'

LITTLE ARKANSAS RIVER CROSSING

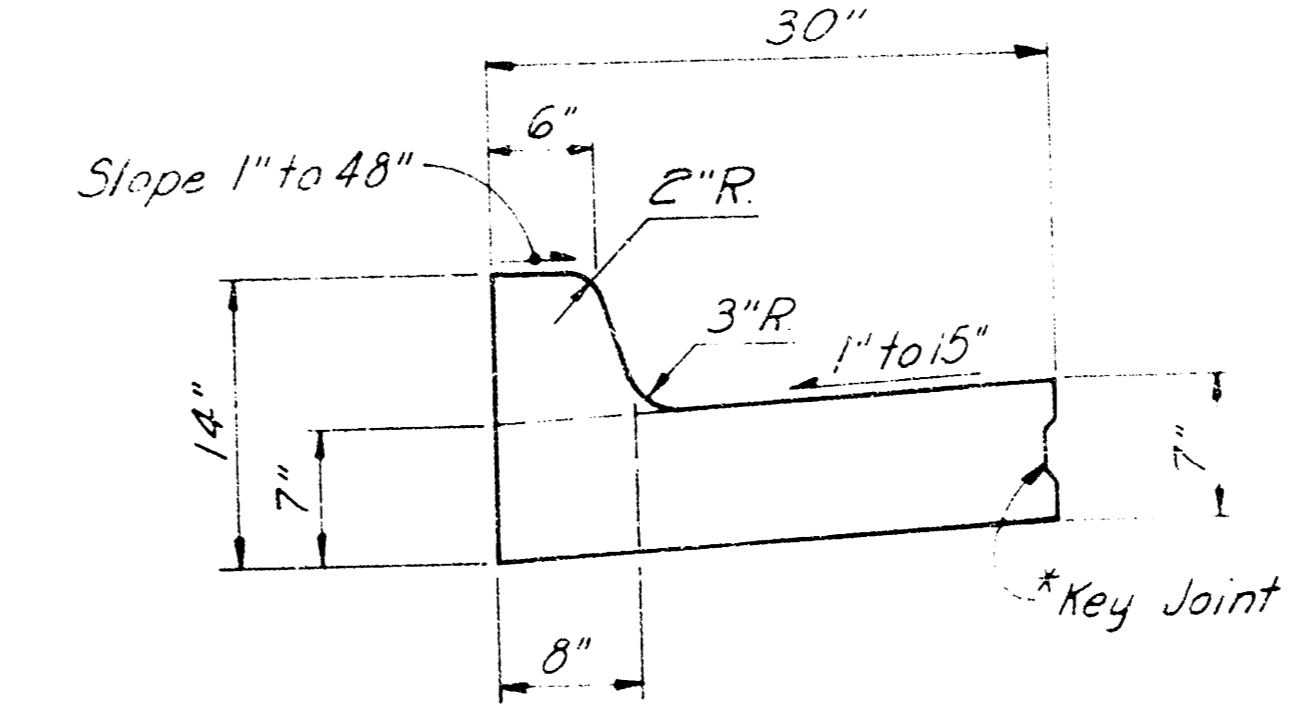
1977

PLANNED BY
PROFESSIONAL ENGINEERING CONSULTANTS, INC.

PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
DAKB 576042	1977	3	17

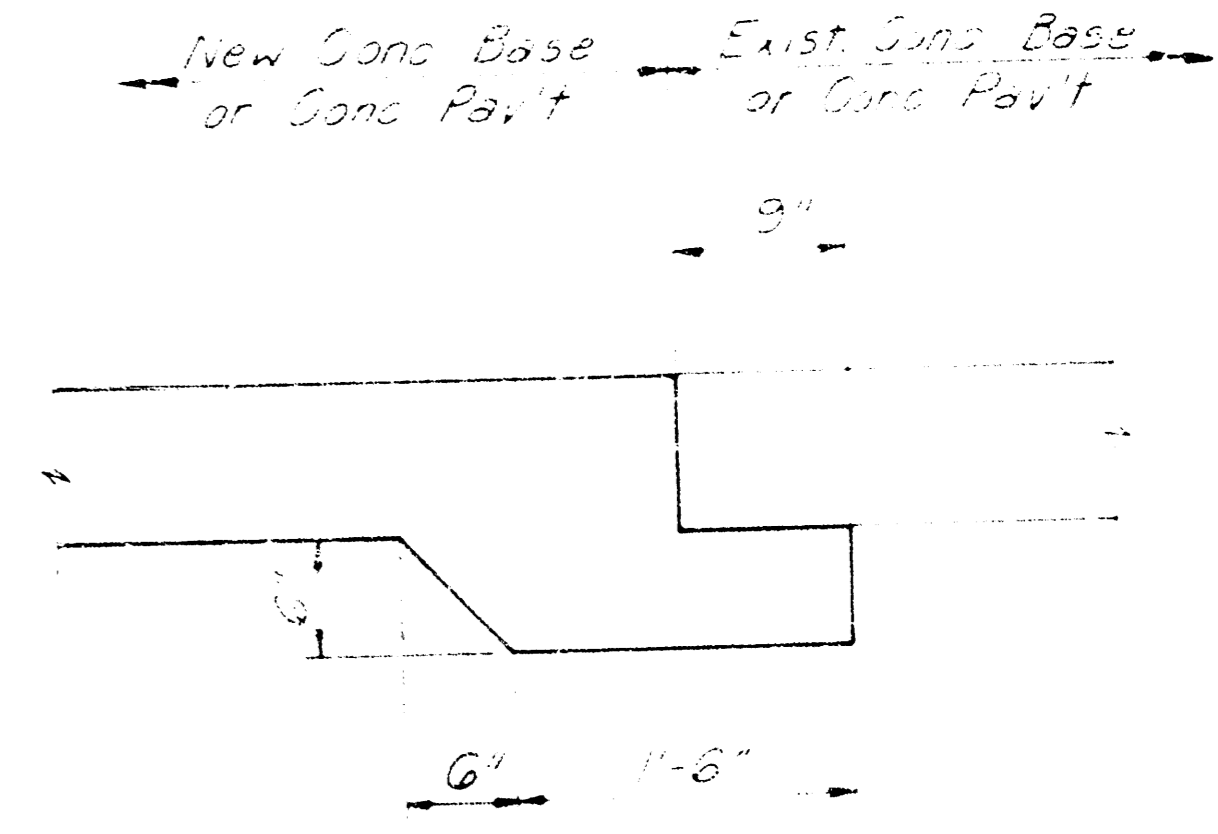


**NORTH BRIDGE APPROACH
PAVING & SIDEWALK DETAILS**

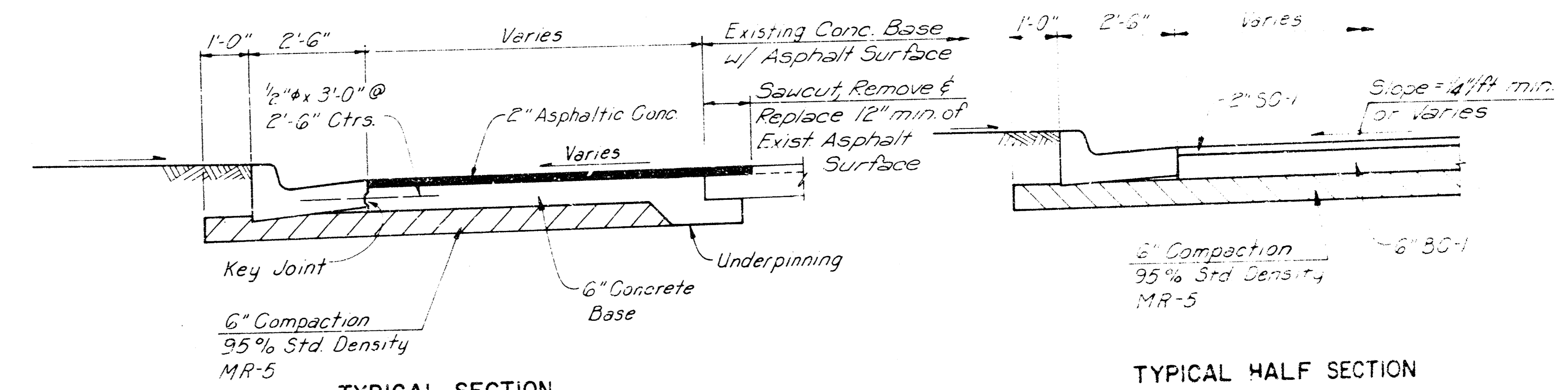


COMBINED CURB & GUTTER

* Omit where Curb & Gutter abuts full depth Asphalt Pavement.

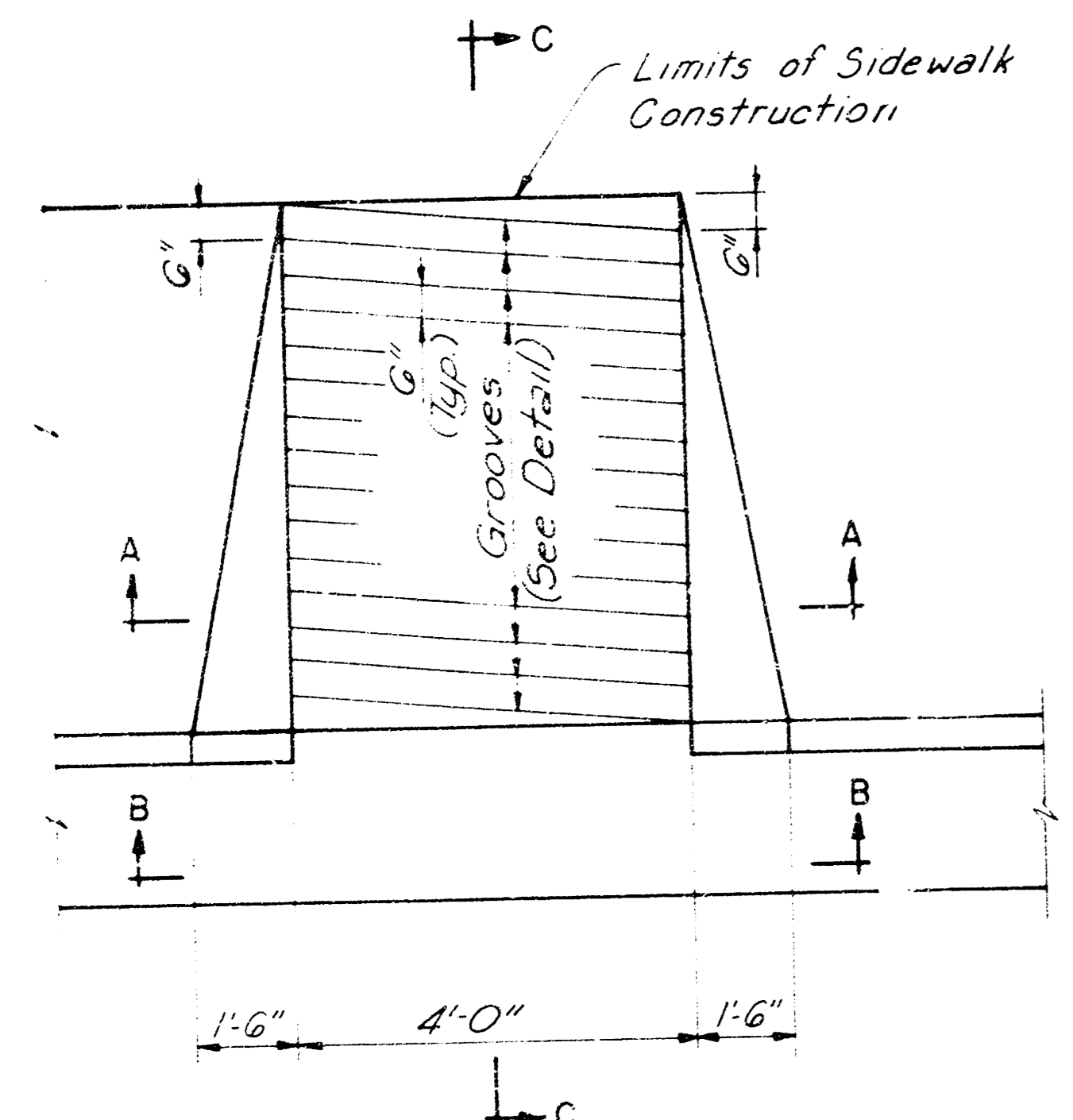


UNDERPINNING DETAIL

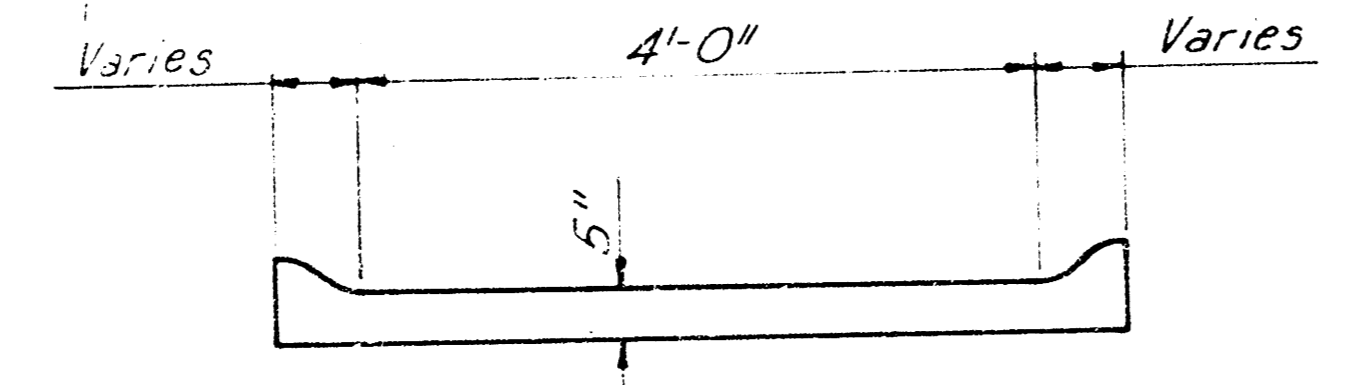


**TYPICAL SECTION
CONCRETE BASE WIDENING
AT
SOUTH BRIDGE APPROACH**

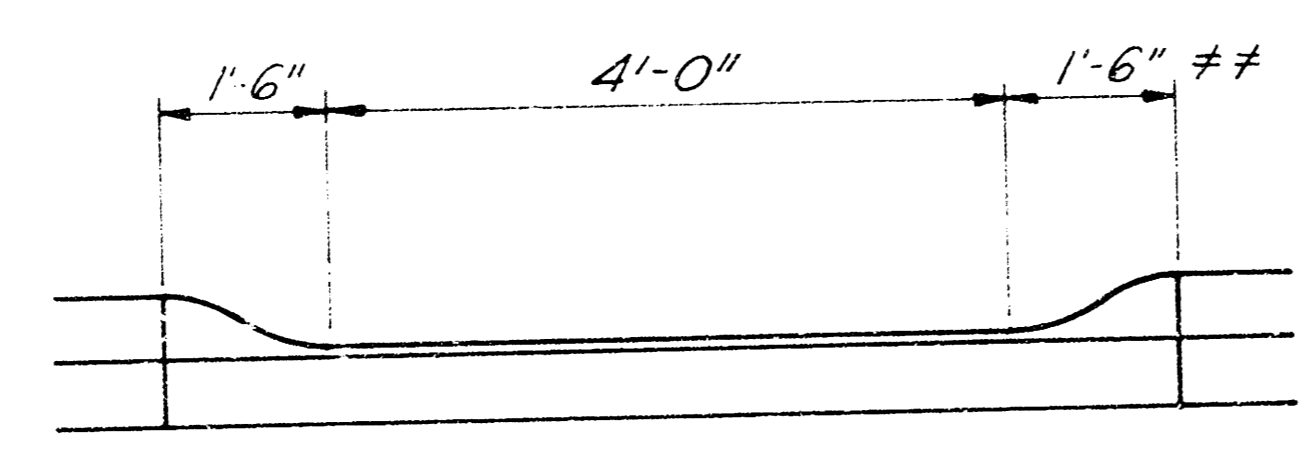
**TYPICAL HALF SECTION
FULL DEPTH ASPHALT**



SIDEWALK RAMP DETAILS

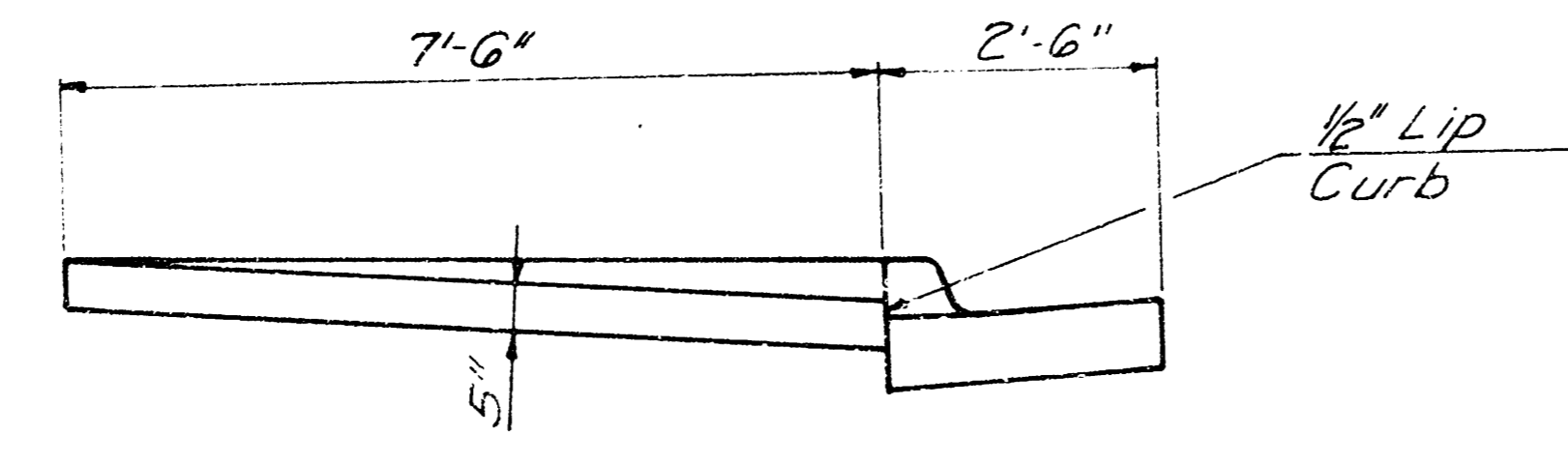


SECTION A-A

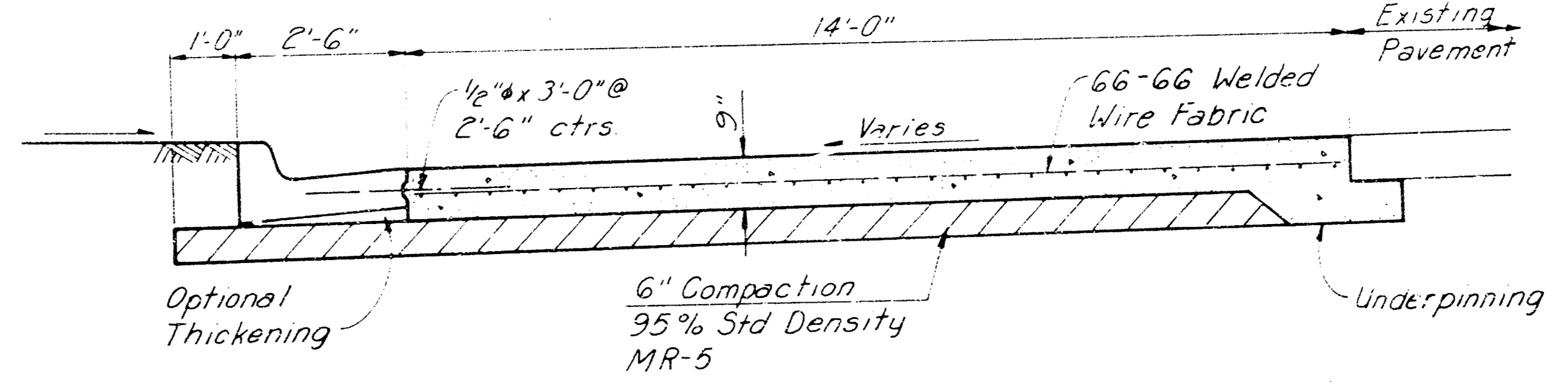


SECTION B-B

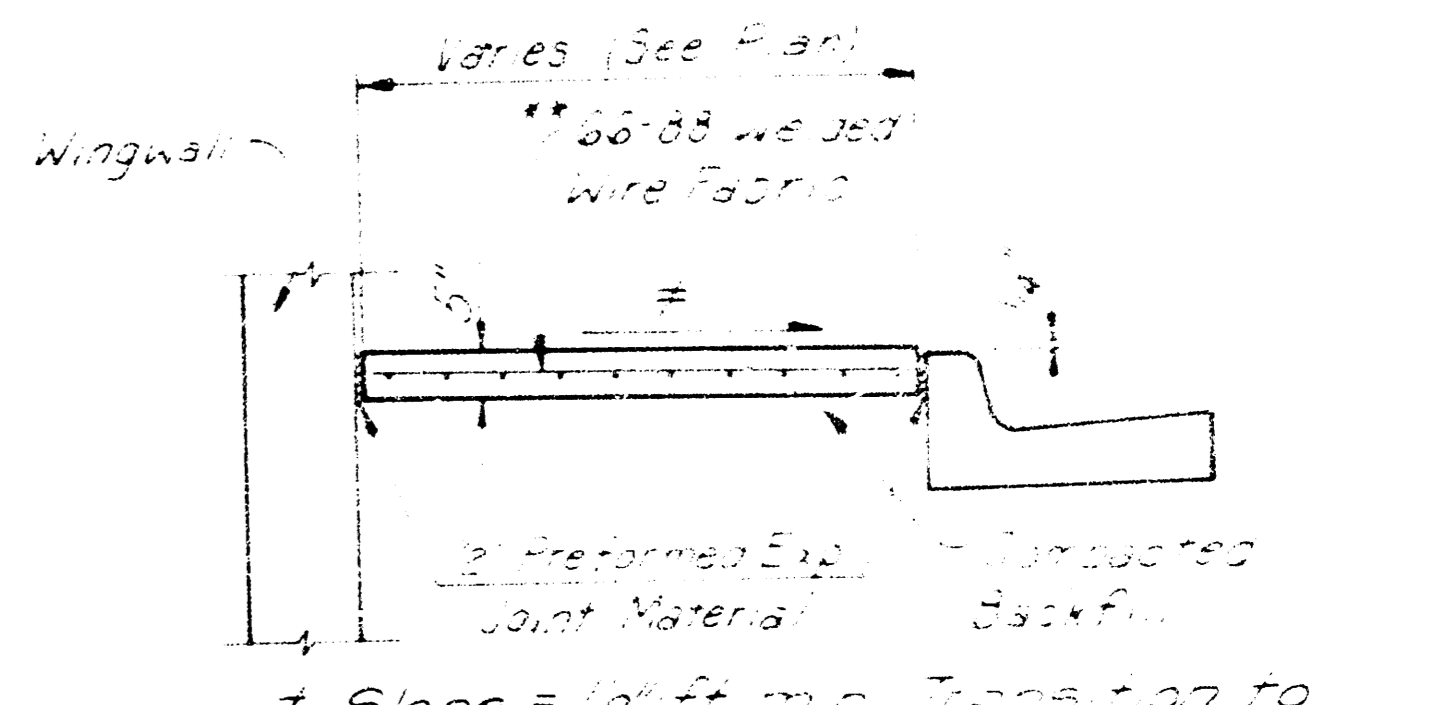
8' for Ramps @ N. Abut. See detail this sheet



SECTION C-C

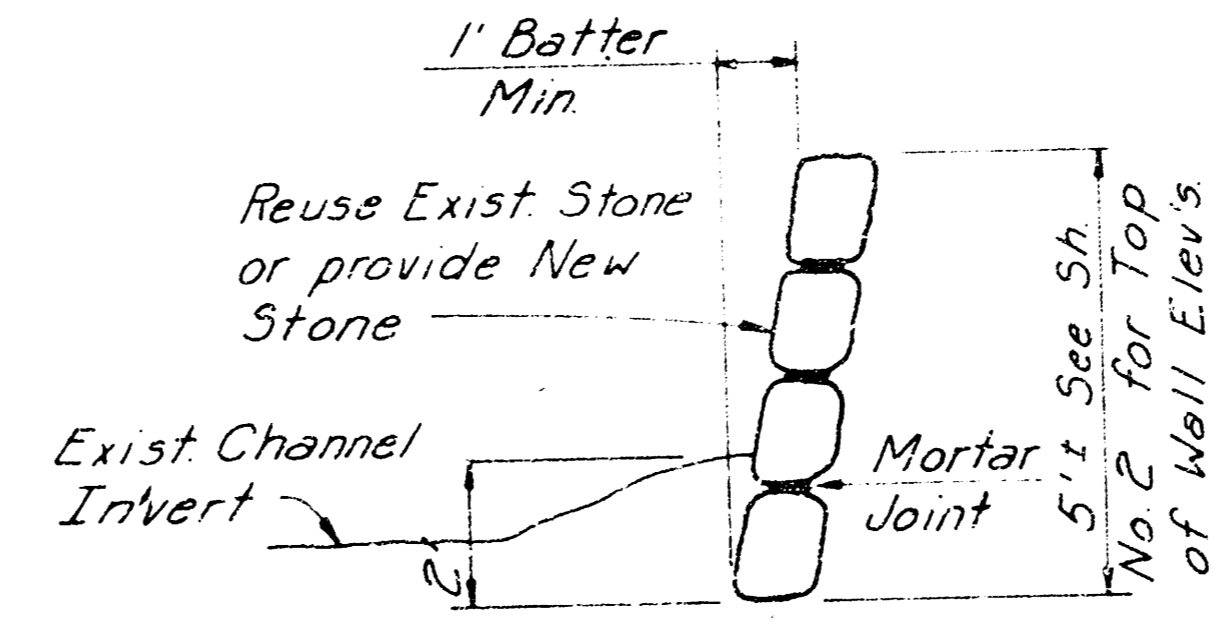


**TYPICAL SECTION
CONCRETE PAVEMENT**



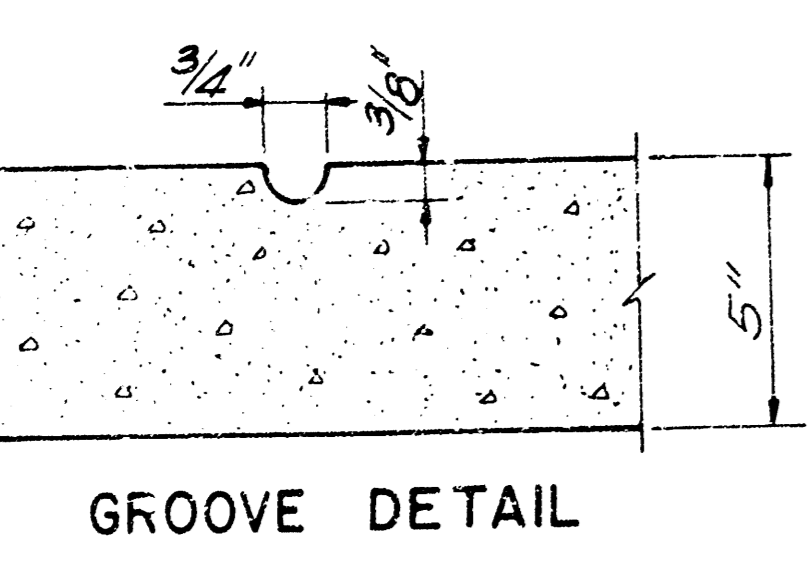
**TYPICAL SECTION
5\"/>**

** May be omitted in sidewalk outside the Bridge Wings at South Abutment. Extend mesh through Contraction Joints.



**STONE MASONRY
WALL DETAIL**

Note: New stone shall be comparable in size and shape to the existing stone and shall be as approved by the Engineer.



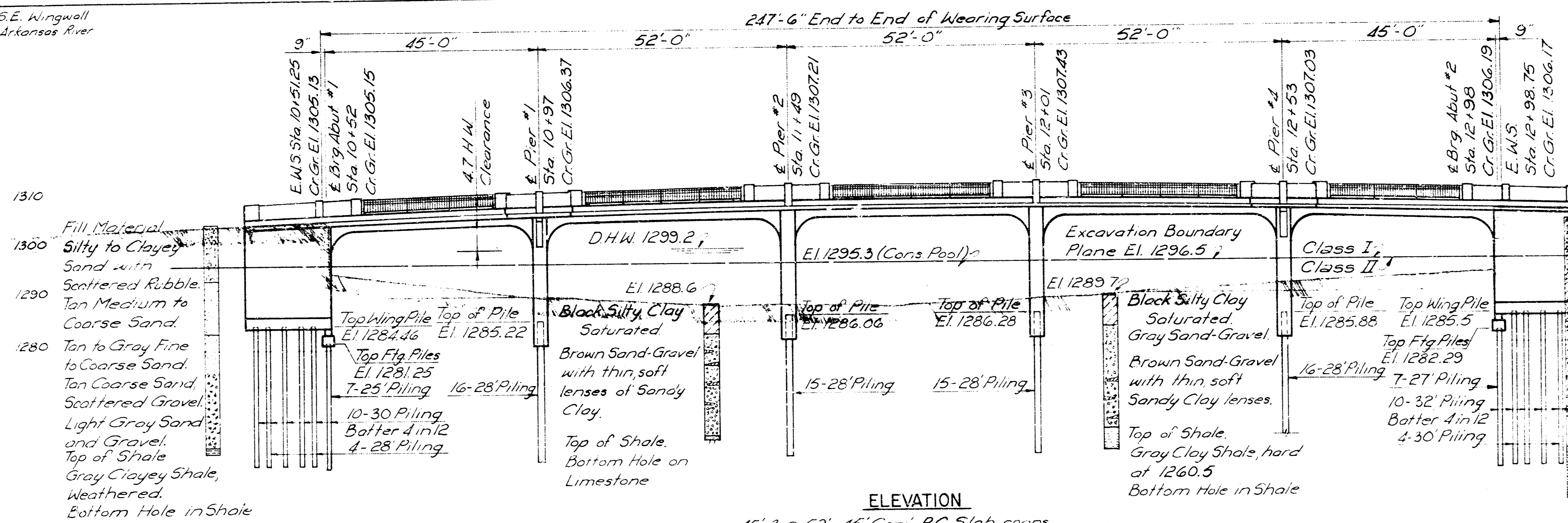
GROOVE DETAIL

CITY OF WICHITA KANSAS
 R.W. LINN, P.E. CITY ENGINEER
SURFACING DETAILS
 WOODMAN BRIDGE
 OVER THE LITTLE ARKANSAS RIVER
 CITY OF WICHITA PROJECT NO. DAKB 576042
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS
 WICHITA, KANSAS

BM #1 Chis. @ S.E. End S.E. Wingwall
Nims St. Bridge @ Little Arkansas River
El. 1305.646

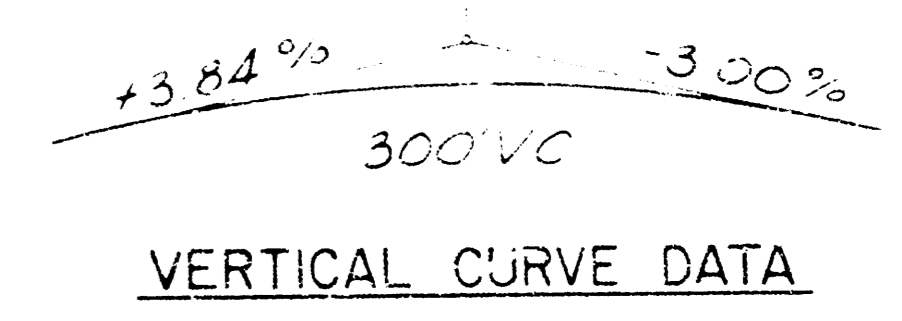
BM #2 RR Spike in E. Side of N. Pair of
Dbl. Transformer Power Pole Sta
141.48' Rt. (Ground Level) El. 1301.025

Project No. DAKB 576042



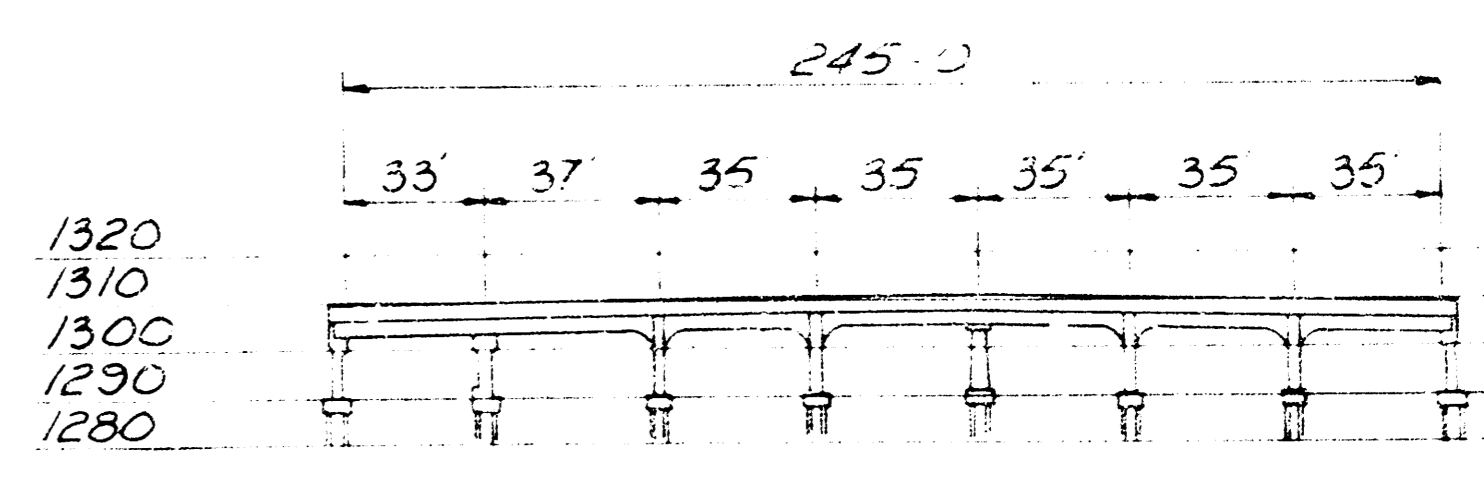
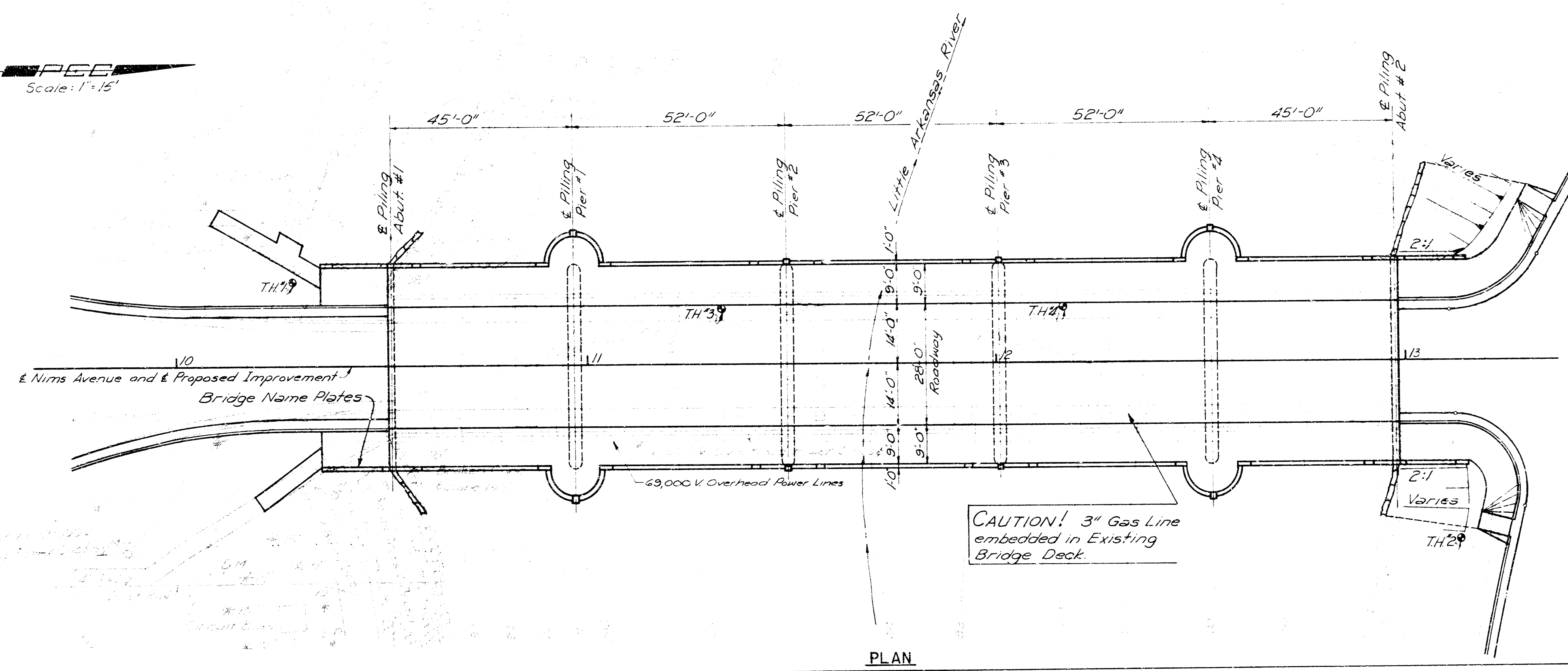
ELEVATION
45'-3" @ 52'-45" Cor. RC Slab spans
U-Type Abutments, Pile Bent Type Piers
28'-0" Roadway and two 8'-0" Sidewalks

1310
1300
1290
1280
1270
1260
1250
1240
1230
1220
1210
1200
1190
1180
1170
1160
1150
1140
1130
1120
1110
1100
1090
1080
1070
1060
1050
1040
1030
1020
1010
1000
990
980
970
960
950
940
930
920
910
900
890
880
870
860
850
840
830
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810
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770
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220
210
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170
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130
120
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100
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80
70
60
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30
20
10
0



GENERAL NOTES
LOADING: HS20-44 AASHTO Specifications Edition of 1973.
UNIT STRESSES: fc = 4000 psi, fe = 60000 psi, fs = 20000 psi
EMBANKMENT: The Contractor shall complete the embankment after the abutments have been constructed.
BRIDGE EXCAVATION: Elevation 1296.5 shall designate the Excavation Boundary Plane of Class I and II Excavation Class I above the Plane, Class II below. See Bridge Excavation sheet for limits of pay excavation.
SOUNDINGS: The soundings shown on these plans are taken from notes obtained in the field and represent the best information to the City of Wichita, Kansas. The logs of these soundings are available for review by prospective bidders at the office of the City Engineer; of the Consulting Engineer's Office, 1440 E. English or at Allied Laboratories, 203 South Ellis.
PILES: All piles shall be driven to a penetration into shale unless in the opinion of the Engineer such penetration cannot be obtained without injury to the pile. All piles shall be driven to a minimum computed bearing value as follows: Abutment Wing Footings 35 Tons/Pile; Abutment Frontwall 48 Tons/Pile; Piers 51 Tons/Pile.
REMOVAL OF EXISTING STRUCTURE: The Contractor shall remove the existing structure 17' @ 35'± Concrete T-beam spans concrete abutments and piers; or, in its construction of the new bridge. Existing piles shall be removed to a minimum elevation of 1285.00.

SCALE
Scale: 1" = 15'



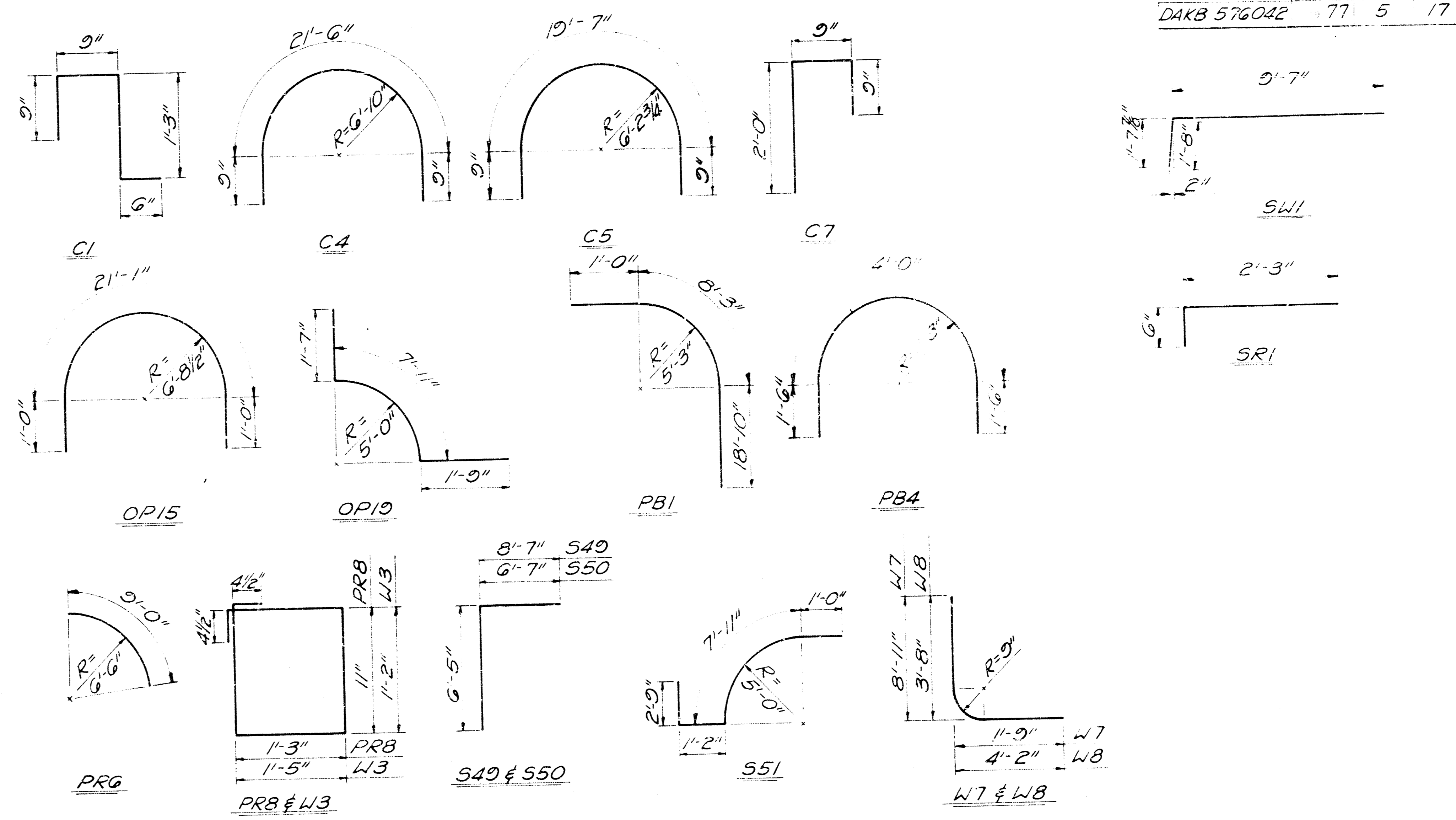
CITY OF WICHITA KANSAS
R.W. LINN, P.E. CITY ENGINEER
CONSTRUCTION LAYOUT
WOODMAN BRIDGE
OVER THE LITTLE ARKANSAS RIVER
CITY OF WICHITA PROJECT NO. DAKB 576042
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	Checked by
Drawn by	Date
	Sheet No.

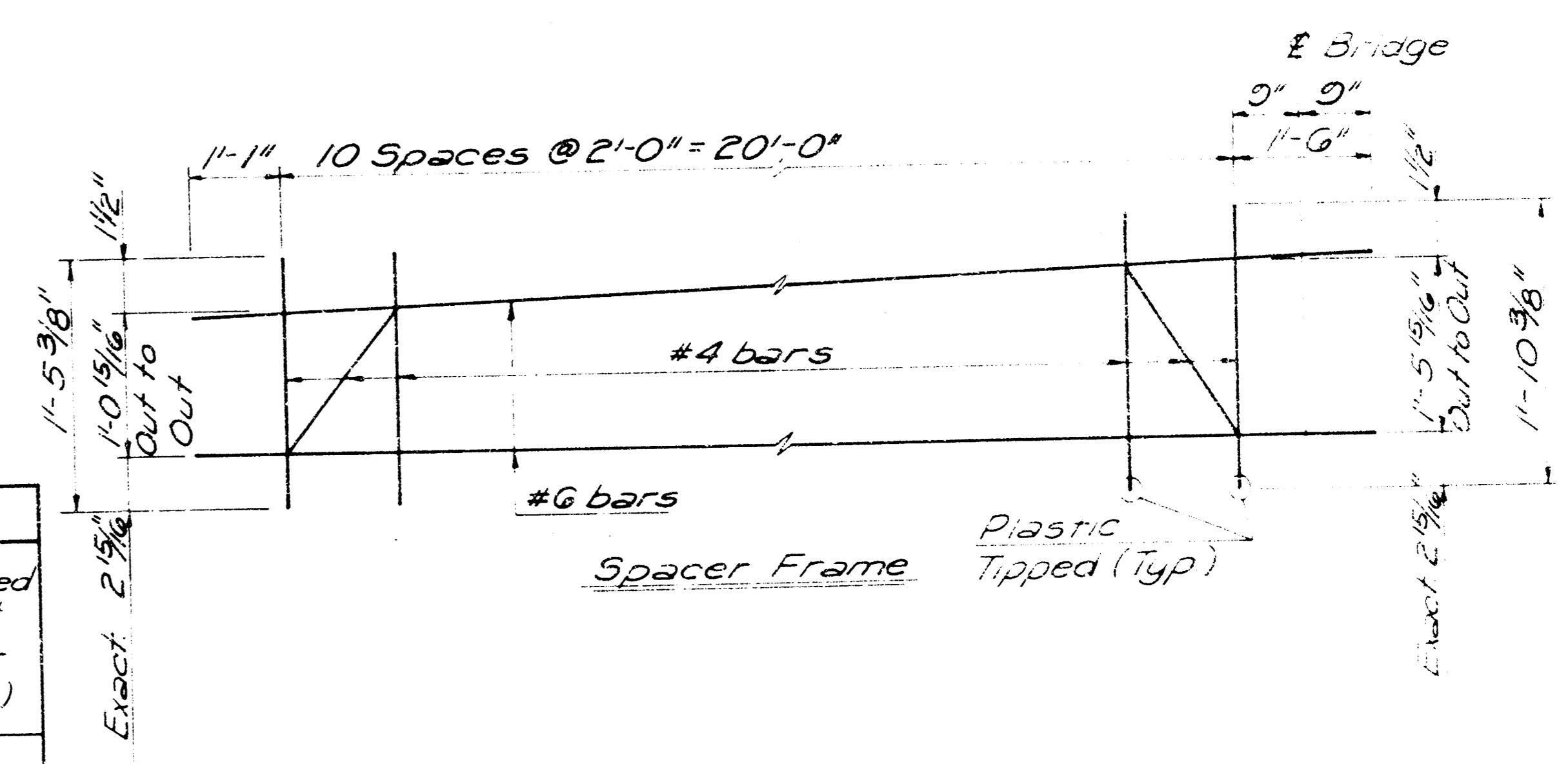
PLAN

REINFORCING STEEL											
STRAIGHT BARS			STRAIGHT BARS			STRAIGHT BARS			BENT BARS		
Mark	No	Size Length	Mark	No	Size Length	Mark	No	Size Length	Mark	No	Size Length
A1	88	#8 14'-11"	PR1	24	#4 16'-11"	S35	12	#6 53'-0"	C1	528	#4 3'-3"
A2	88	#6 14'-11"	PR2	581	#4 4'-0"	S36	28	#8 31'-0"	C4	8	#6 23'-0"
A3	44	#4 43'-8"	PR3	48	#4 7'-11"	S37	16	#7 31'-0"	C5	4	#6 21'-11"
			PR4	24	#4 7'-8"	S38	42	#8 27'-0"	C7	68	#5 3'-6"
			PR5	48	#4 2'-8"	S39	16	#6 27'-0"			
			PR7	48	#6 4'-0"	S40	48	#8 21'-0"			
AD1	76	#8 3'-0"				S41	12	#6 21'-0"	FI	102	* *
						S42	44	#4 22'-0"			
AF1	10	#6 44'-8"	S1	52	#4 25'-6"	S43	16	#9 53'-0"	OP15	4	#4 23'-11"
AF2	60	#4 2'-2"	S2	28	#5 30'-3"	S44	6	#7 53'-0"	OP19	8	#4 11'-3"
			S3	32	#10 49'-0"	S45	14	#9 32'-0"			
			S4	28	#10 35'-6"	S46	8	#7 32'-0"			
			S5	28	#10 28'-0"	S47	8	#7 27'-0"	PB1	696	#9 28'-11"
C2	8	#6 39'-3"	S6	28	#10 22'-0"	S48	6	#7 21'-0"	PB4	136	#5 7'-0"
C3	16	#6 36'-8"	S7	28	#5 17'-6"	SR2	2	#4 29'-8"			
CG	8	#5 16'-11"	S8	32	#10 48'-6"						
			S9	28	#10 35'-0"	T1	114	#4 30'-0"	PRG	48	#4 9'-0"
OP1	56	#3 *	S10	28	#9 28'-0"	T2	228	#5 43'-8"	PRB	24	#4 5'-11"
OP2	20	#7 8'-3"	S11	32	#9 23'-6"						
OP3	8	#5 13'-5"	S12	14	#5 20'-6"						
OP4	4	#5 13'-0"	S13	26	#4 7'-0"	TR1	176	#7 9'-4"	S49	44	#6 15'-0"
OP5	4	#5 12'-5"	S14	20	#4 30'-0"	TR2	368	#7 2'-9"	S50	44	#6 13'-0"
OP6	4	#5 11'-7"	S15	20	#9 49'-0"	TR3	88	#7 *	S51	84	#5 12'-10"
OP7	4	#5 10'-6"	S16	20	#8 35'-6"	TR4	16	#7 16'-7"	SR1	60	#4 2'-9"
OP8	4	#5 9'-11"	S17	20	#8 28'-0"				SW1	426	#4 11'-3"
OP9	4	#5 7'-2"	S18	20	#8 22'-0"				W3	56	#4 5'-11"
OP10	4	#4 8'-10"	S19	20	#4 17'-0"	W1	12	#7 20'-3"	W7	64	#9 10'-5"
OP11	4	#4 11'-4"	S20	20	#8 48'-6"	W2	4	#7 19'-0"	W8	68	#9 7'-7"
OP12	4	#4 12'-9"	S21	20	#8 35'-0"	W4	68	#9 17'-9"			
OP13	4	#4 13'-3"	S22	20	#7 28'-0"	W5	44	#4 17'-9"			
OP14	32	#4 *	S23	20	#7 23'-6"	W6	104	#4 17'-8"			
OP16	8	#4 1'-9"	S24	10	#4 20'-0"						
OP17	8	#4 2'-4"	S25	32	#10 46'-0"	WLF1	44	#4 7'-0"			
OP18	8	#4 4'-0"	S26	12	#8 46'-0"	WLF2	132	#6 10'-2"			
OP20	24	#4 *	S27	28	#10 29'-6"	WLF3	48	#7 16'-11"			
			S28	16	#8 29'-6"	WLF4	12	#4 16'-11"			
			S29	28	#10 35'-0"						
PB2	48	#9 25'-3"	S30	16	#8 35'-0"						
PB3	104	#5 44'-0"	S31	32	#9 22'-6"						
PB5	24	#9 24'-0"	S32	12	#8 22'-6"						
			S33	44	#4 23'-6"						
			S34	32	#8 53'-0"						

* See Bending Diagrams



Increase from 1'-9" to 2'-7" by 1" Increments (8 Each Length) TR3
 Increase from 1'-6" to 4'-0" by 1'-3" Increments (8 Each Length) OP20
 Increase from 5'-9" to 7'-9" by 8" Increments (8 Each Length) OP14
 Increase from 5'-0" to 8'-9" by 7/8" Increments (8 Each Length) OPI
 TR3, OP20, OPI4 & OPI



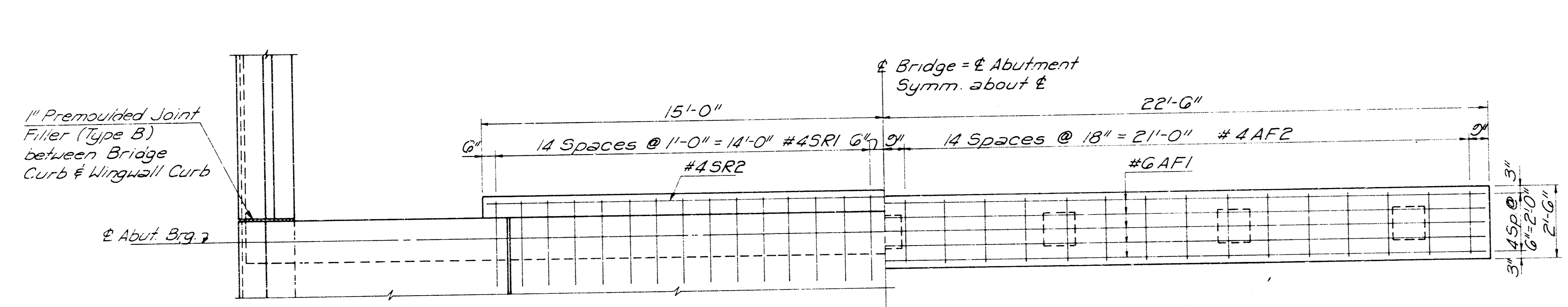
BENDING DIAGRAMS
 (All dimensions are out to out of bars)

Item	SUMMARY OF QUANTITIES													
	Excavation (Cu Yds)	Class I Concrete (Cu Yds)	Class II Concrete (Cu Yds)	1 1/4" Latex Surface Course (Sq Yds)	Reinforcing Steel (Lbs)	Concrete Piles (Lin Ft)	Metal Handrail (Lin Ft)	Linseed Oil Surface Treatment (Sq Yds)	Electric Lighting System (Lump Sum)	Removal of Existing Structure (Lump Sum)	Removal of Approach Pavement (Sq Yds)	Roadway Pavement (Sq Yds)	Concrete Sidewalk (Sq Ft)	Combined Curb & Gutter (Lin Ft)
Location	Class I	Class II												
Abutment #1	150	421.2	111.8		12,315	587								
Pier #1		215.3	979		19,575	448								
Pier #2		204.2	979		19,575	420								
Pier #3		201.2	979		19,575	420								
Pier #4		206.5	979		19,575	448								
Abutment #2	125	389.3	111.9		12,315	629								
Substructure Total	275	1637.7	615.3		102,930	2952								
Superstruct. Total			1191.8	770	137,310					712	540	143	411	
Approach														
Total	275	1637.7	1807.1	770	240,240	2952	310.6	561	Lump Sum	Lump Sum	712	540	1430	411

NOTE: Only one of the following types of Piles shall be used on this structure: Pipe 12 3/4" or Prestressed 14"

* Includes 7 @ 25', 7 @ 27', 6 @ 28', 14 @ 30' and 10 @ 32'

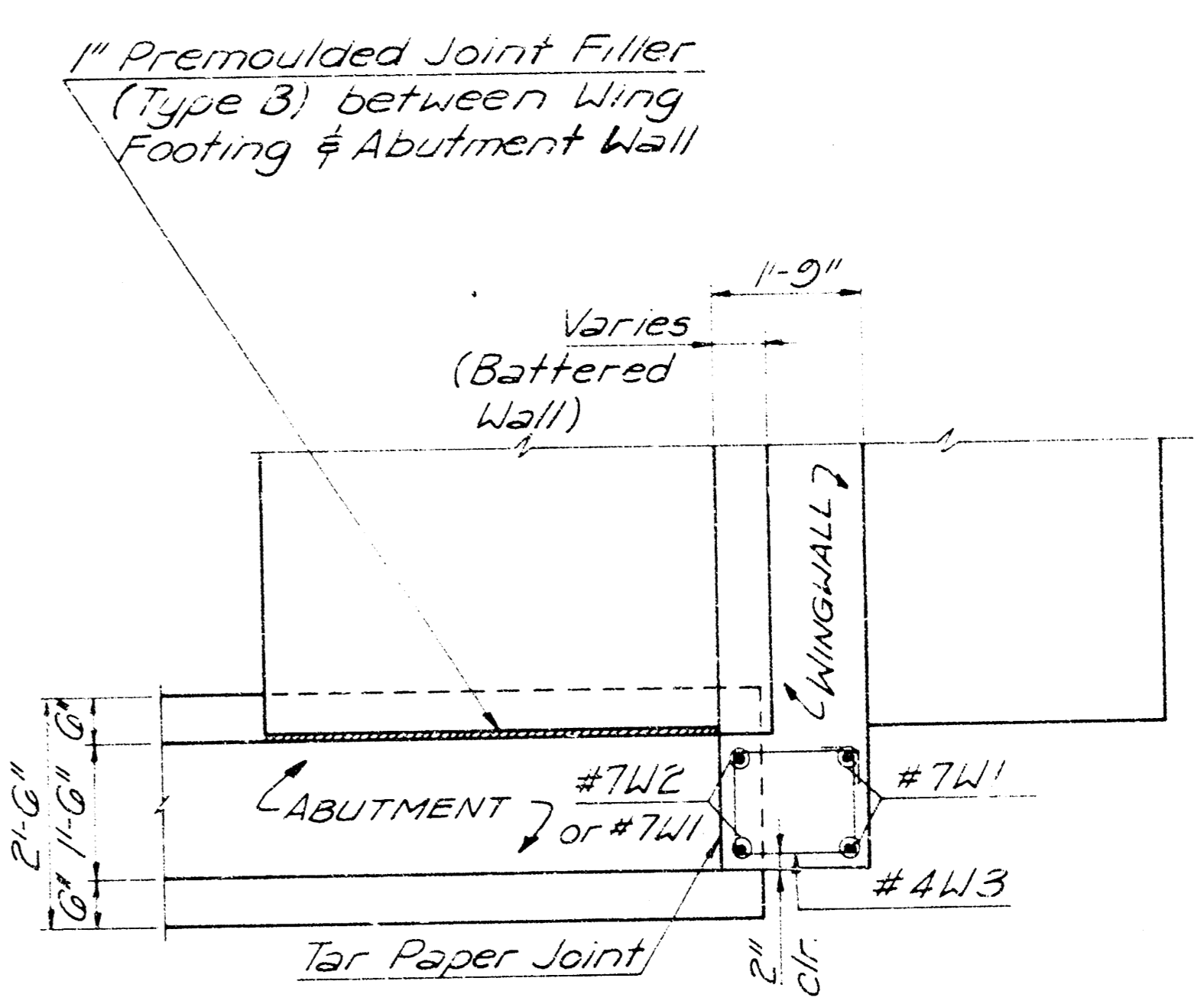
CITY OF WICHITA, KANSAS
 R W LINN, PE CITY ENGINEER
SUMMARY OF QUANTITIES
 WOODMAN BRIDGE
 OVER THE LITTLE ARKANSAS RIVER
 CITY OF WICHITA PROJECT NO. DAKB 576042
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 150 WEST WICHITA, KANSAS
 Designed by: _____ Checked by: _____
 Drawn by: _____ Date: _____



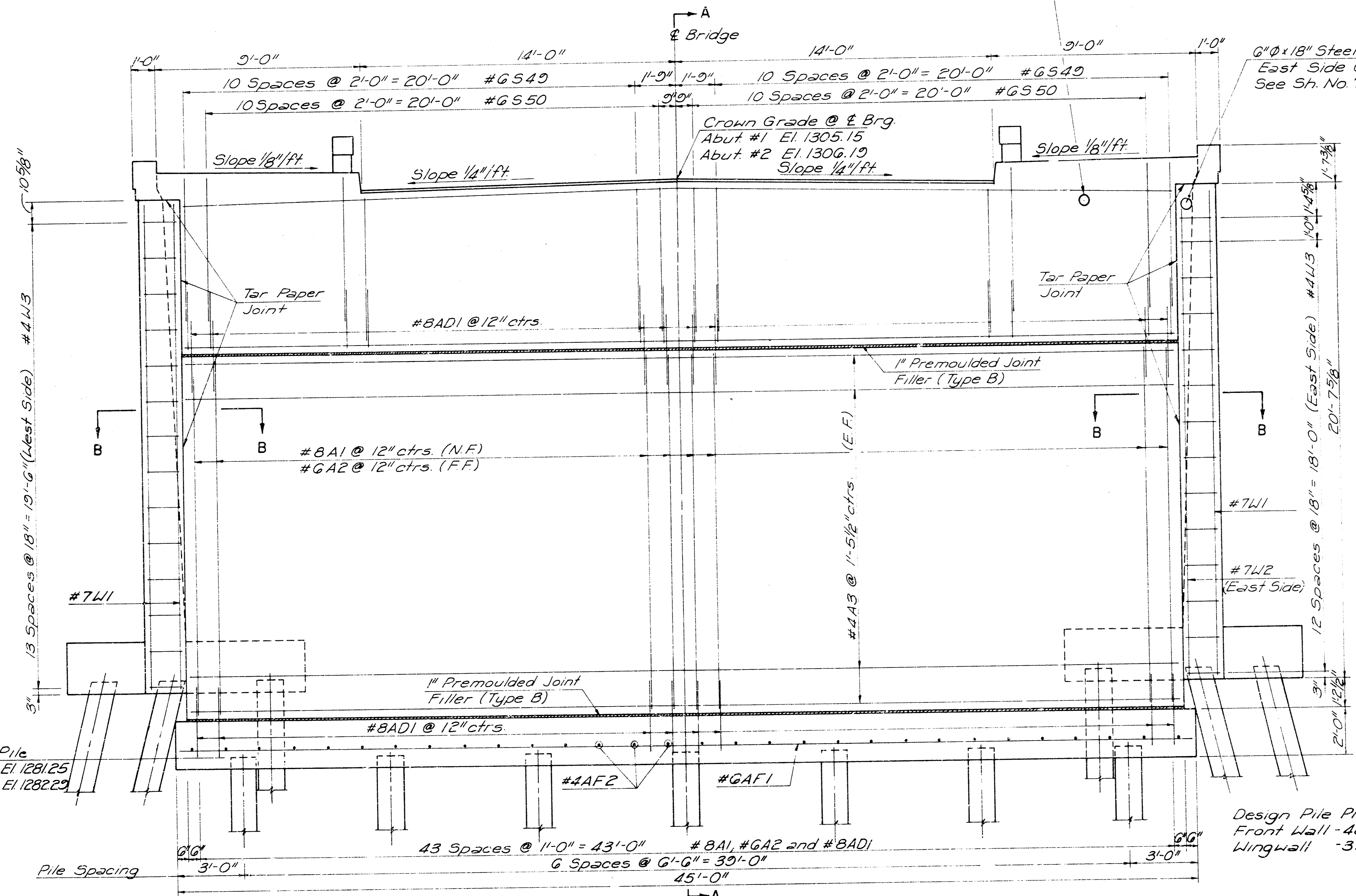
NOTE: (E.F.) = Each Face
(F.F.) = Far Face
(N.F.) = Near Face

HALF PLAN

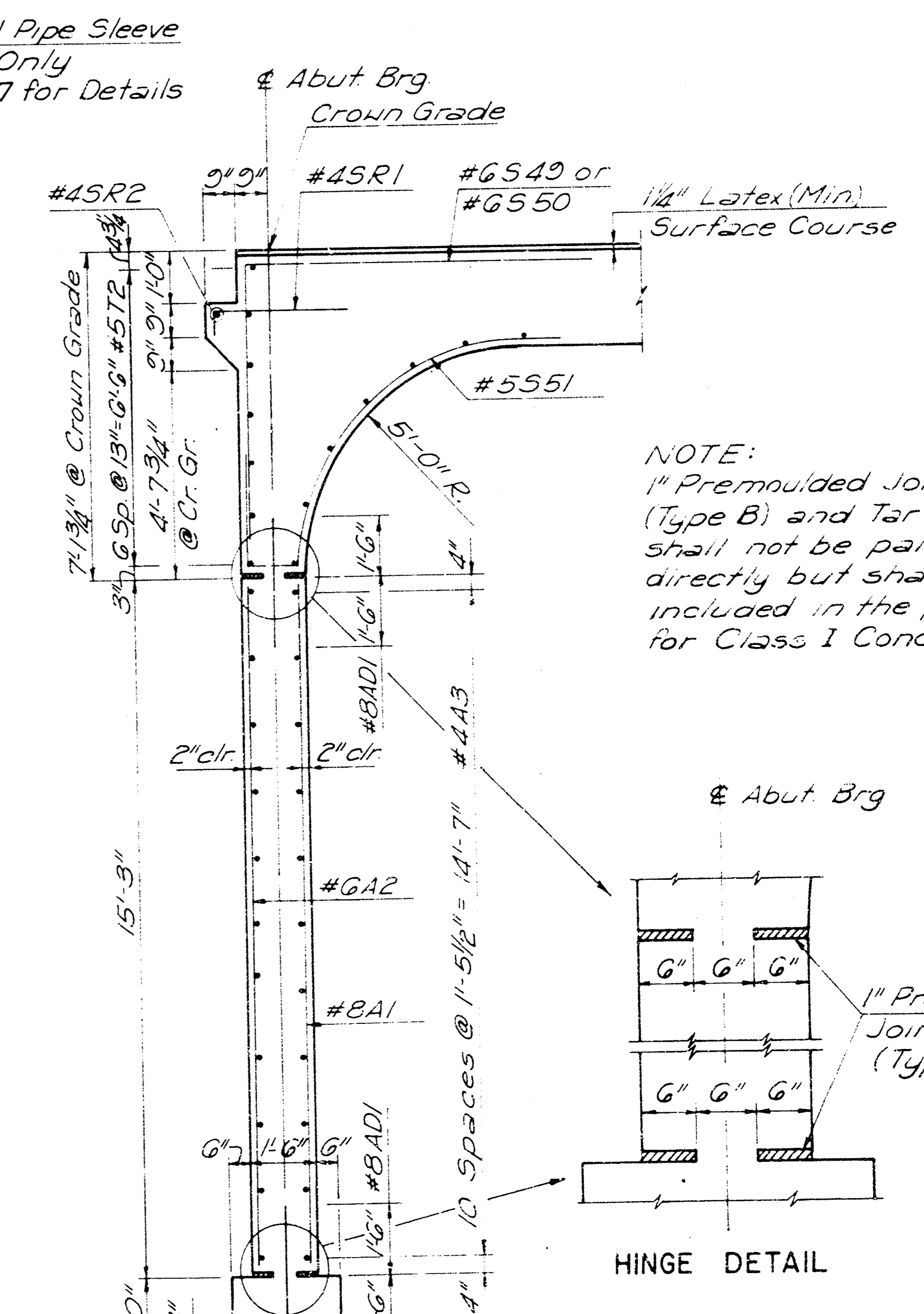
HALF FOOTING PLAN



SECTION B-B



ELEVATION



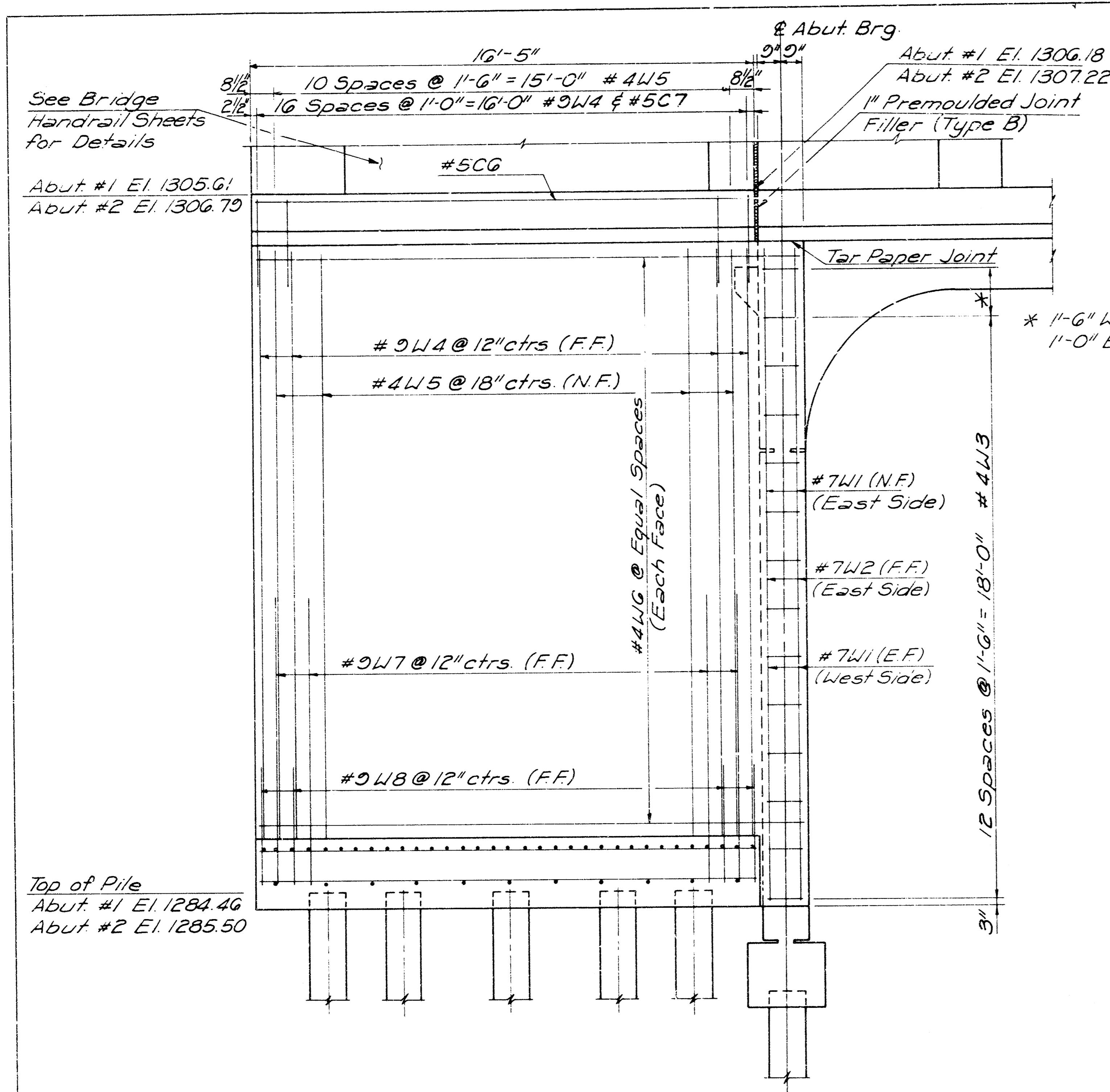
SECTION A-A

CITY OF WICHITA, KANSAS
R.W. LINN, PE CITY ENGINEER

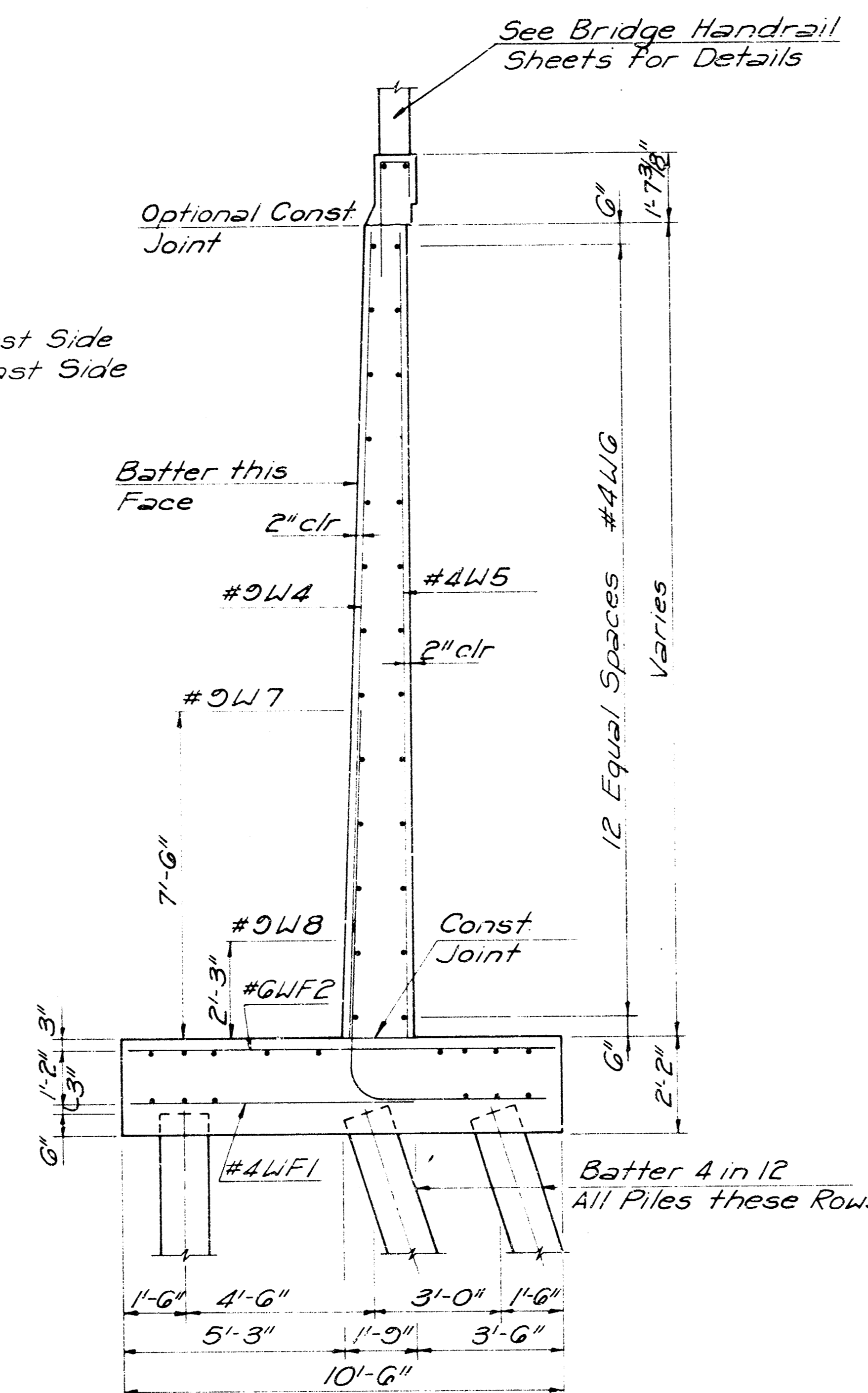
ABUTMENT DETAILS
WOODMAN BRIDGE
OVER THE LITTLE ARKANSAS RIVER
CITY OF WICHITA PROJECT NO. DAKB 576042

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

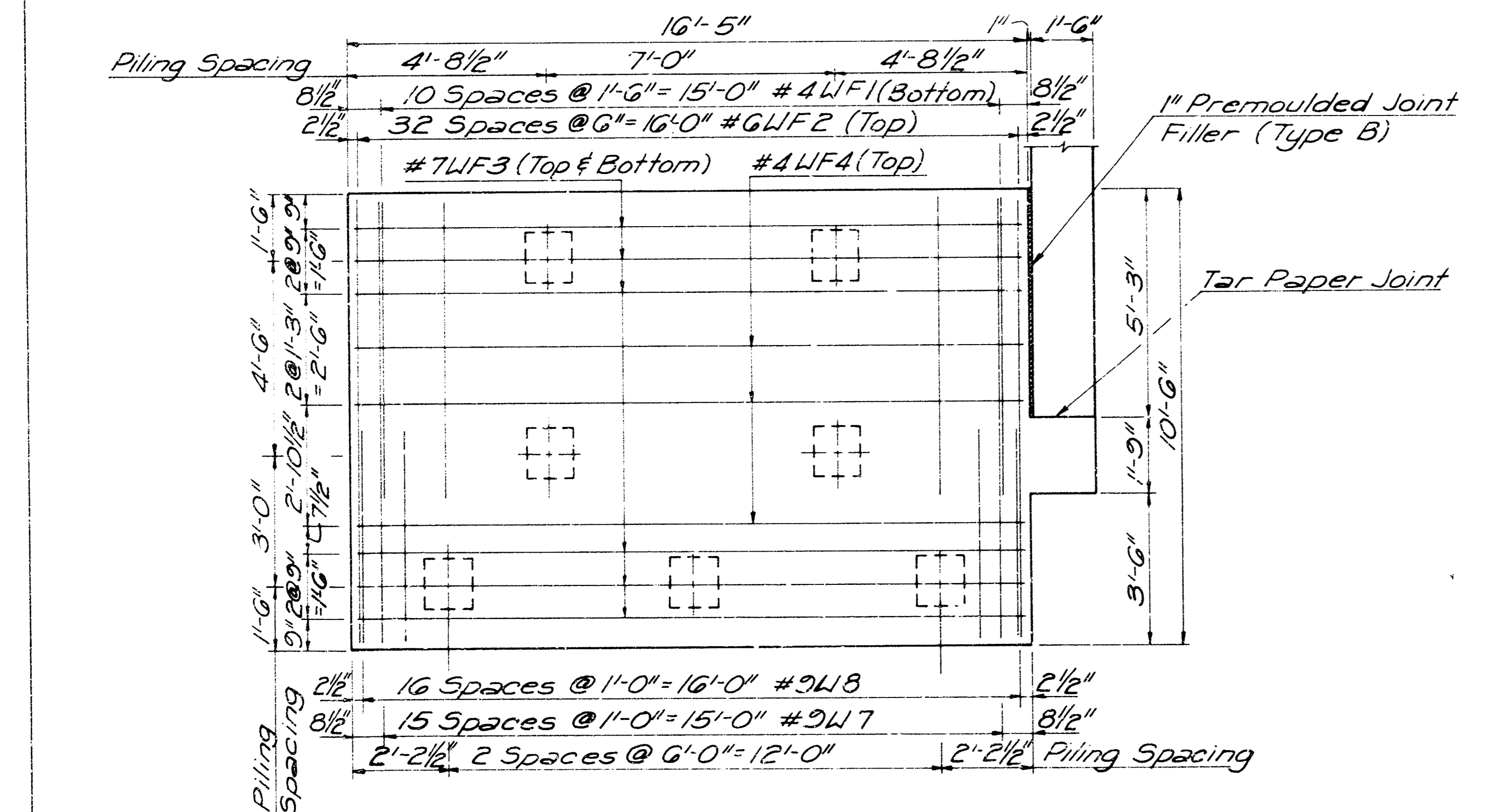
Drawn by _____ Date _____
Checked by _____ Date _____



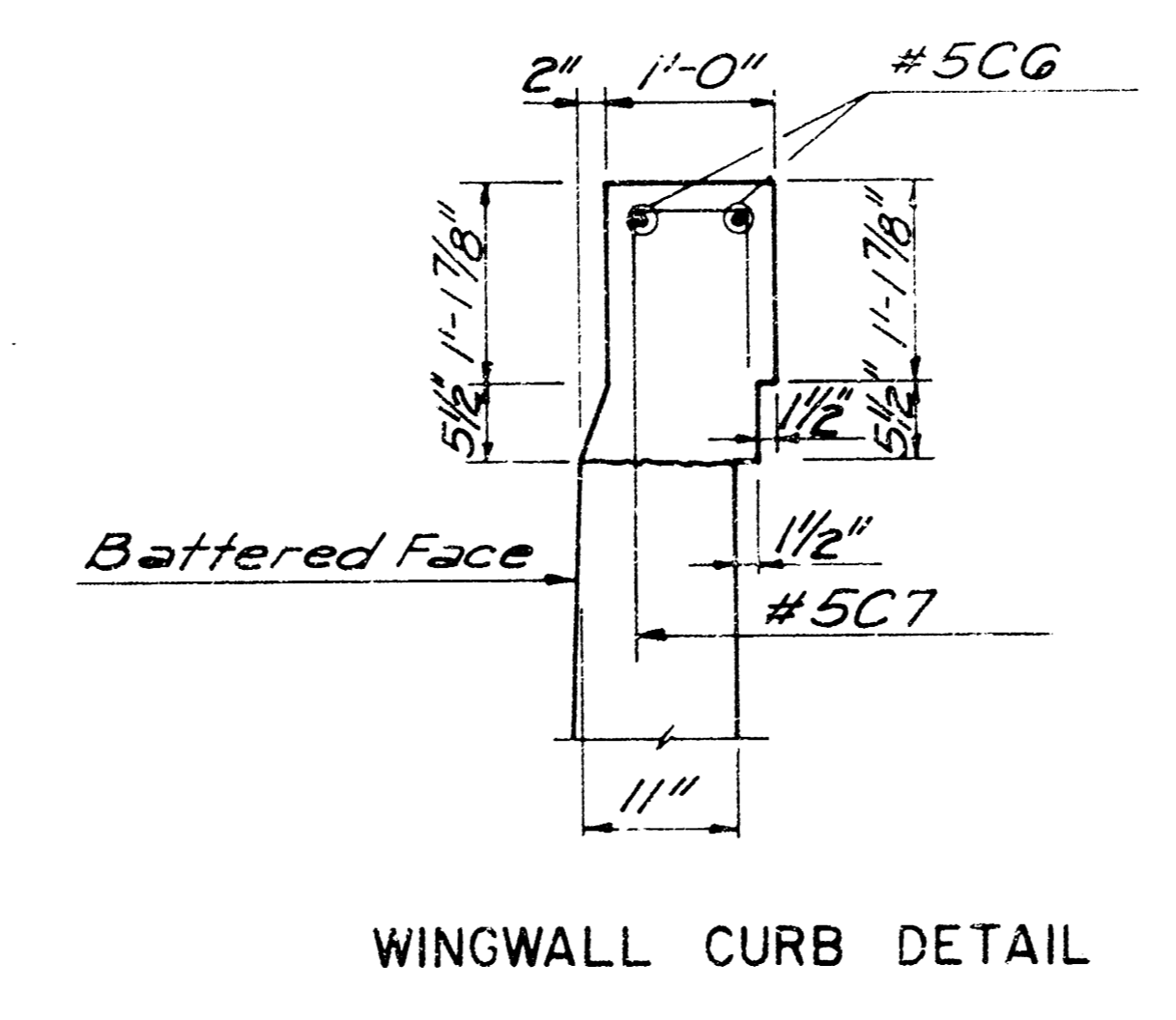
WINGWALL ELEVATION



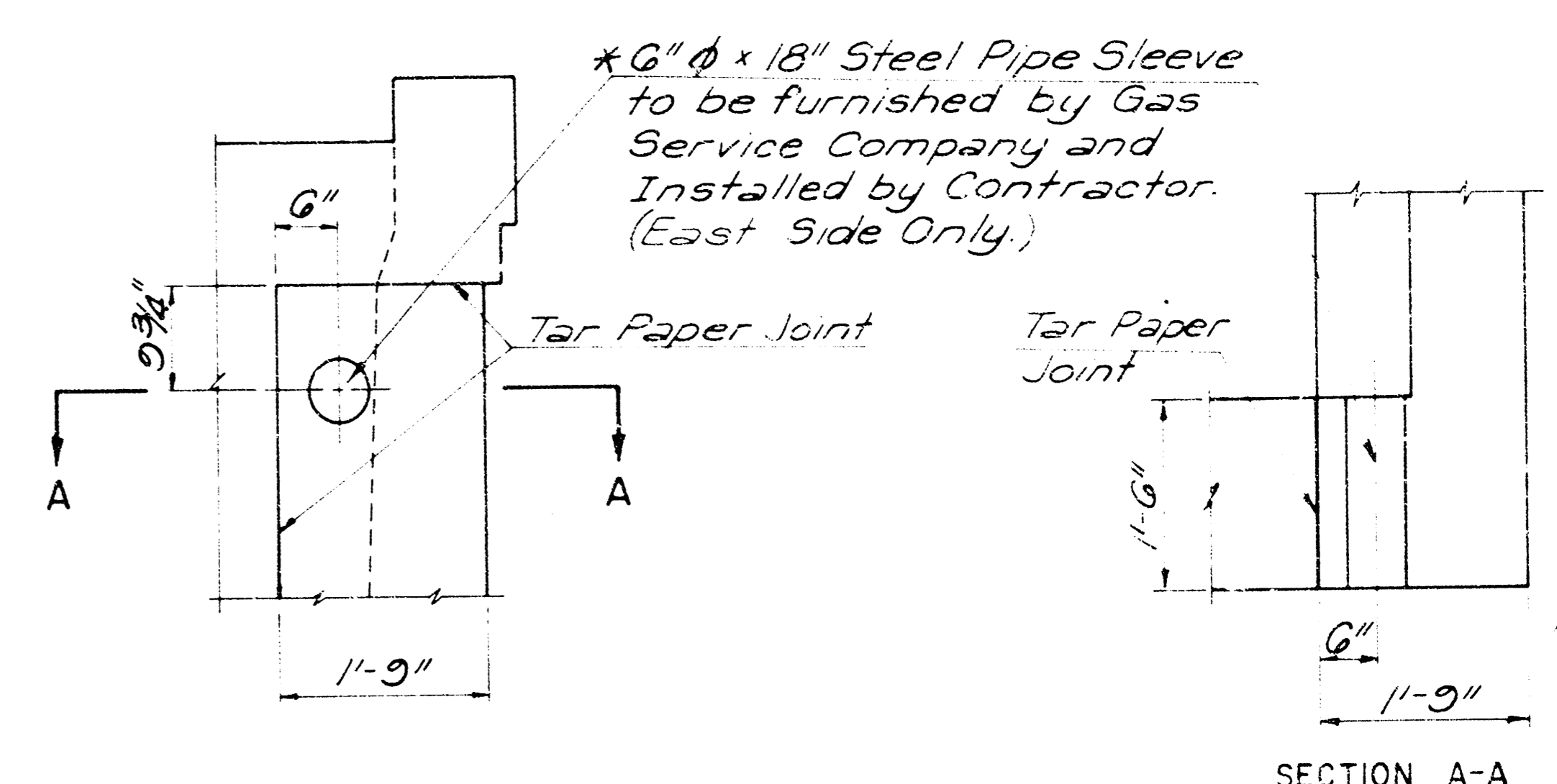
SECTION THRU WINGWALL



WINGWALL FOOTING PLAN

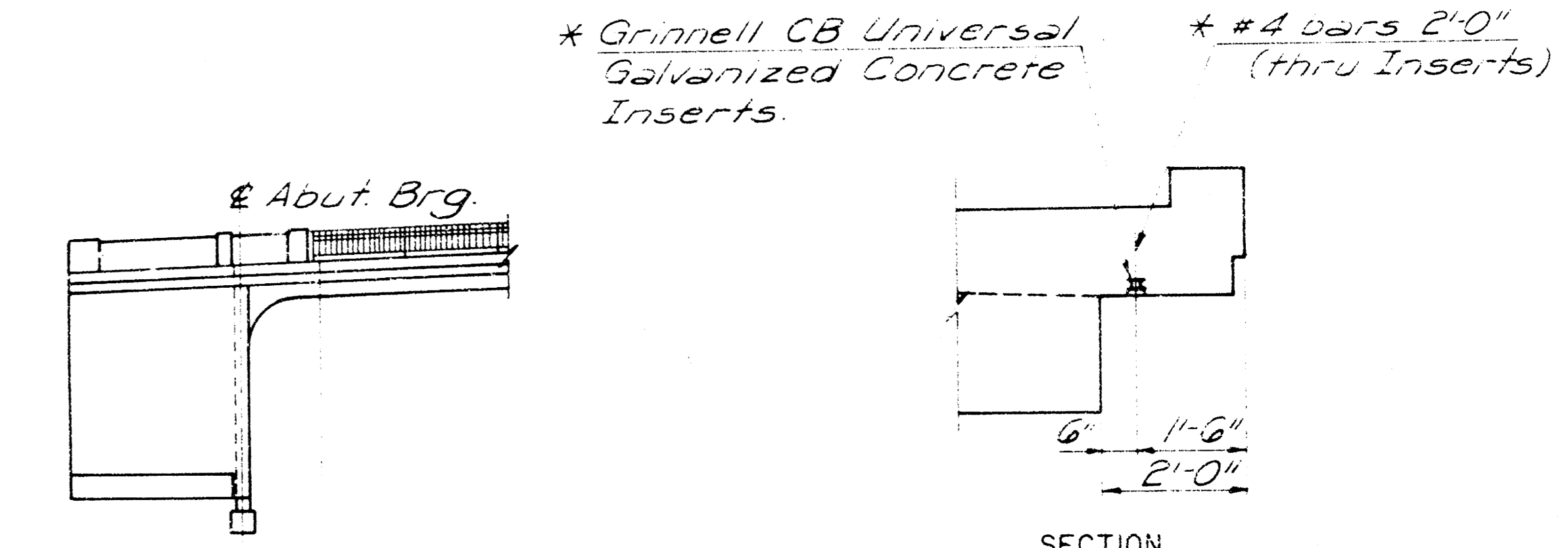


WINGWALL CURB DETAIL



NOTE: Contractor to contact Gas Service Company before backfilling wingwalls and construction of sidewalk.

SLEEVE LOCATION DETAILS



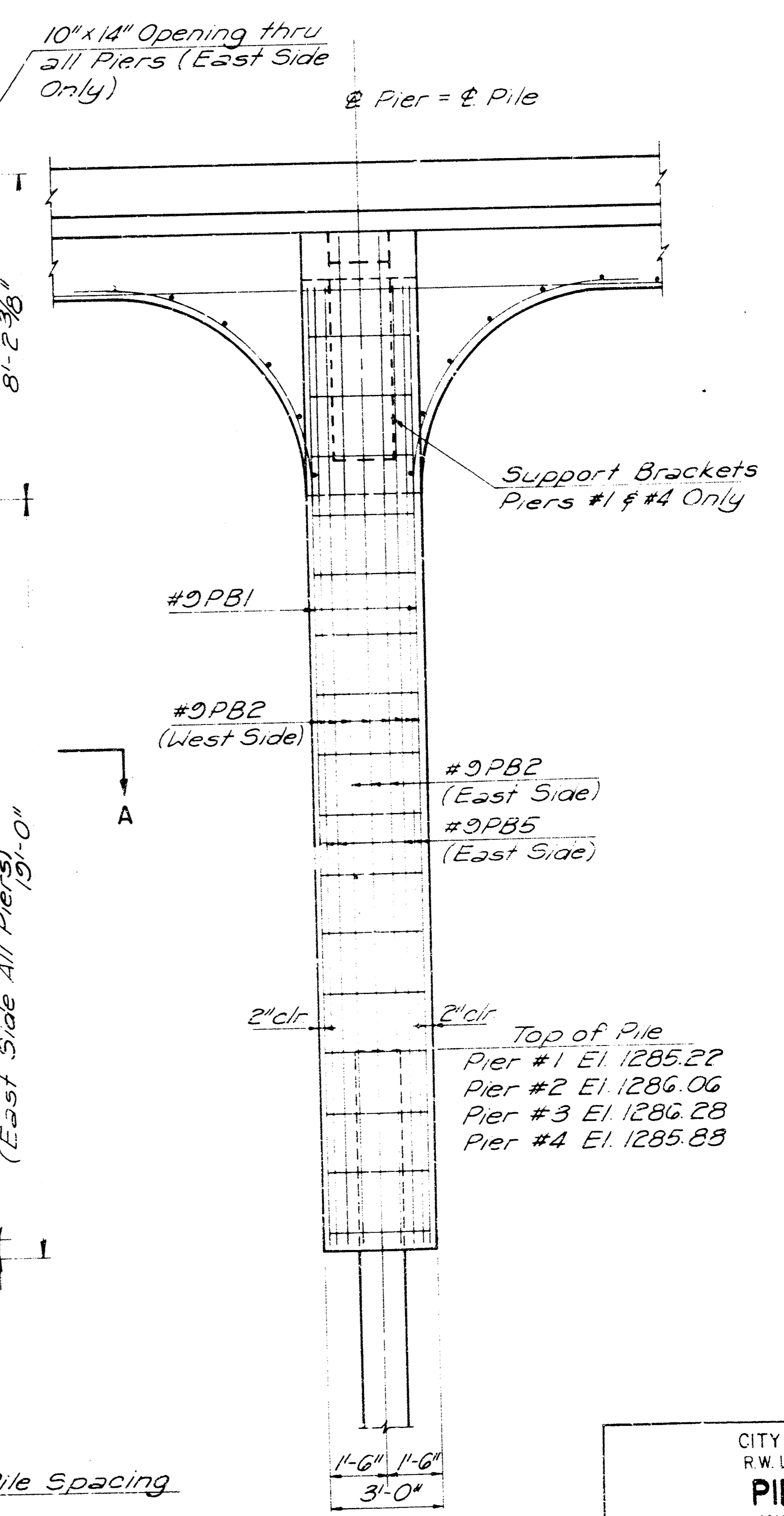
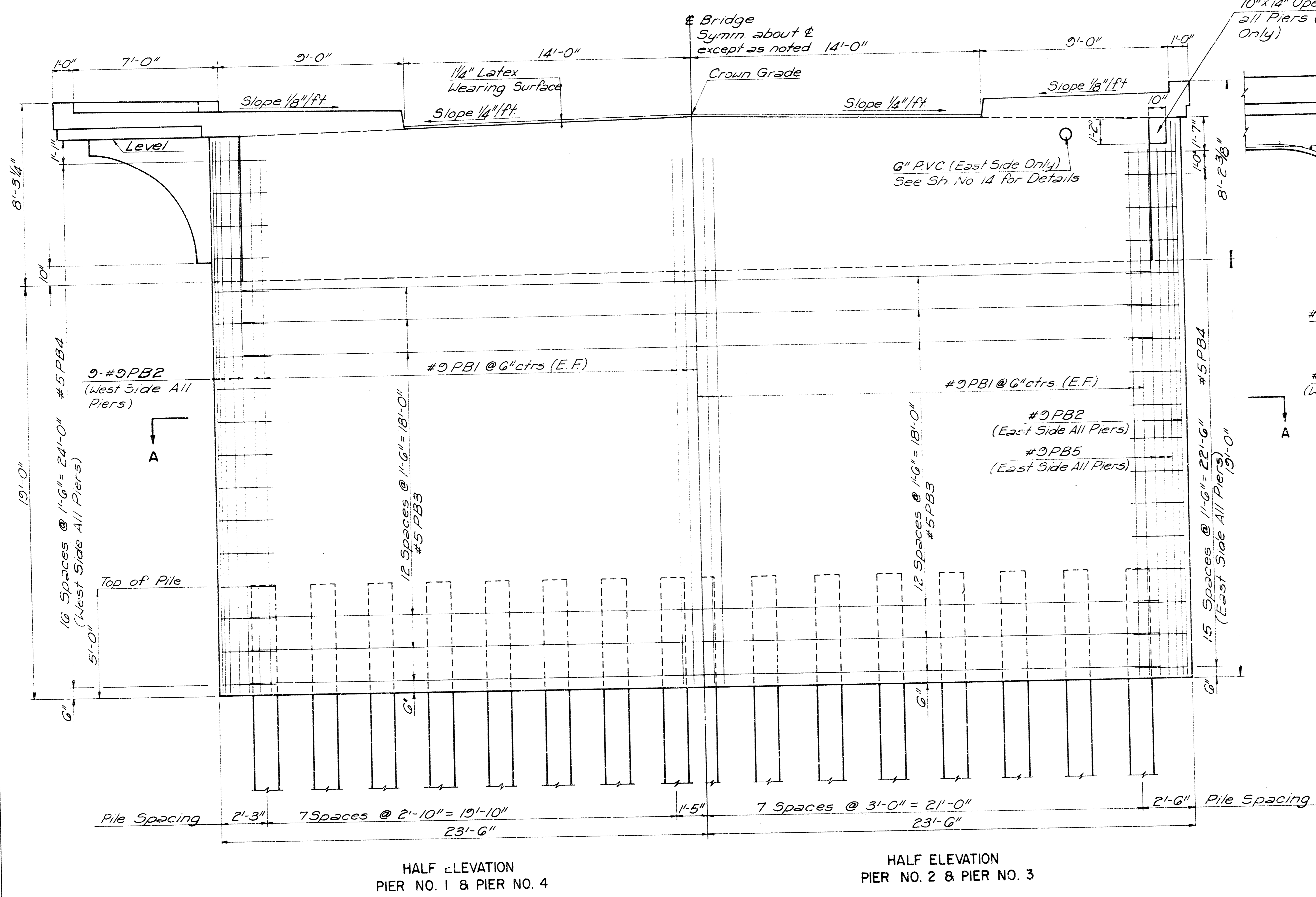
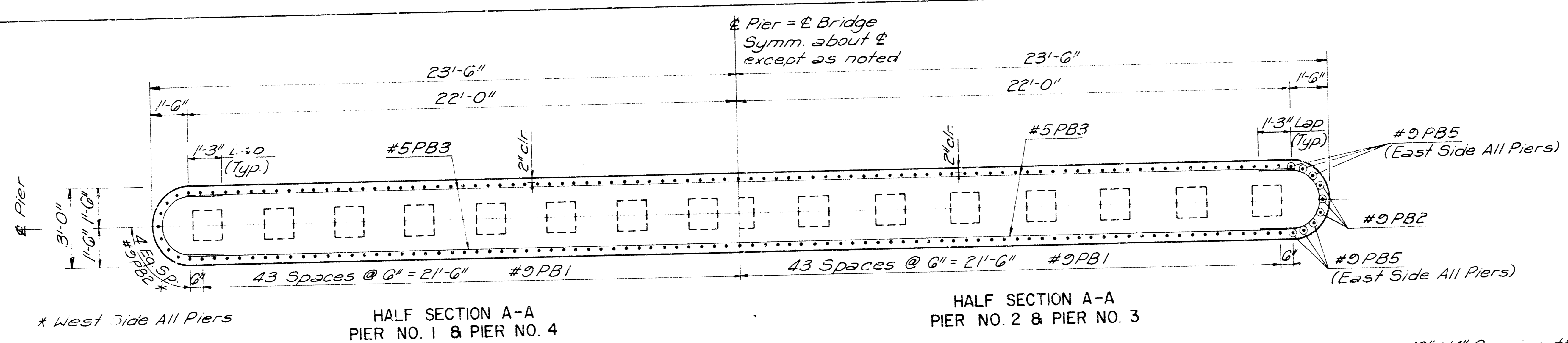
PART ELEVATION

INSERT LOCATION DETAILS

* To be furnished by Gas Service Company and Installed by the Contractor. Cost of installation shall be included in the Price bid for Class I Concrete.

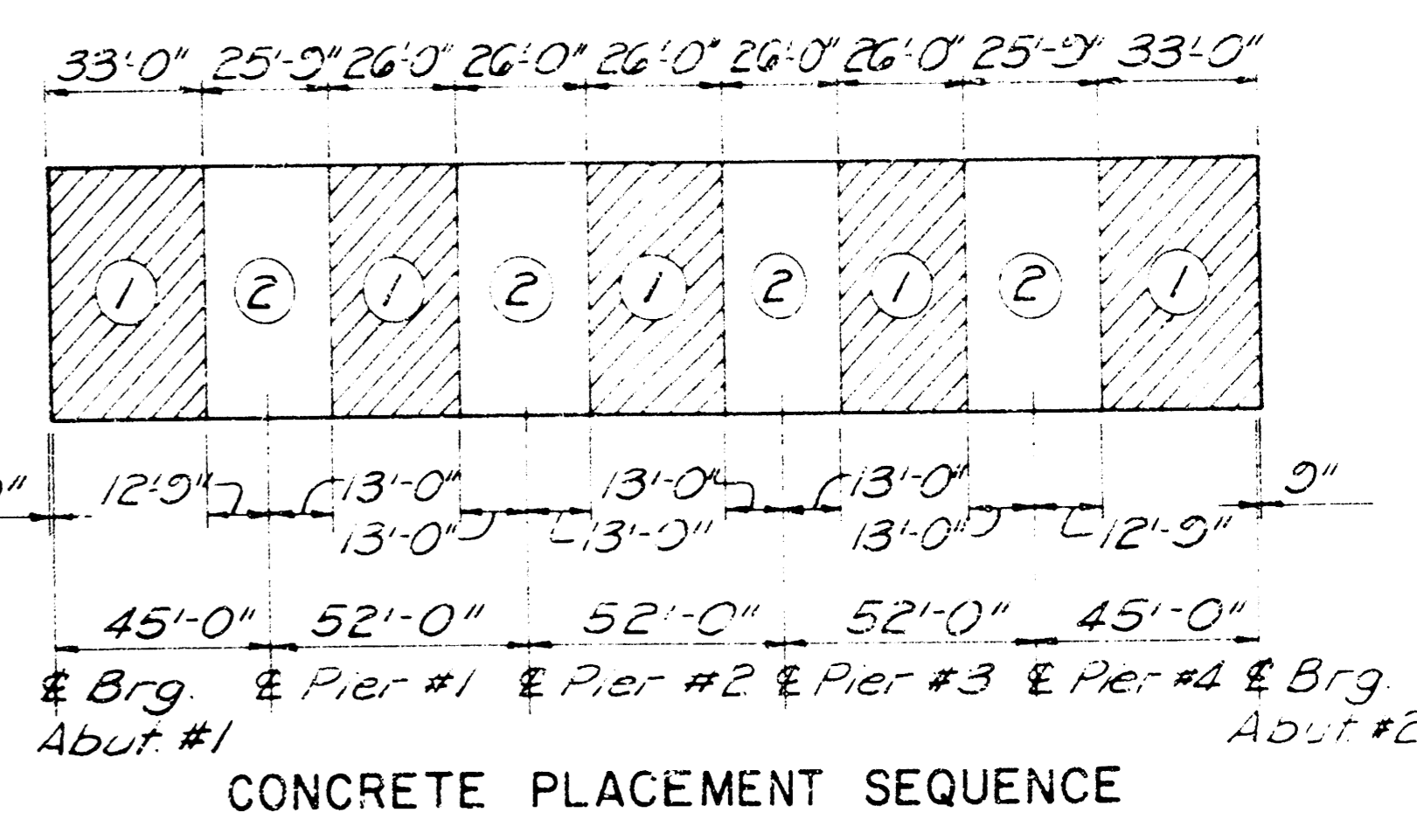
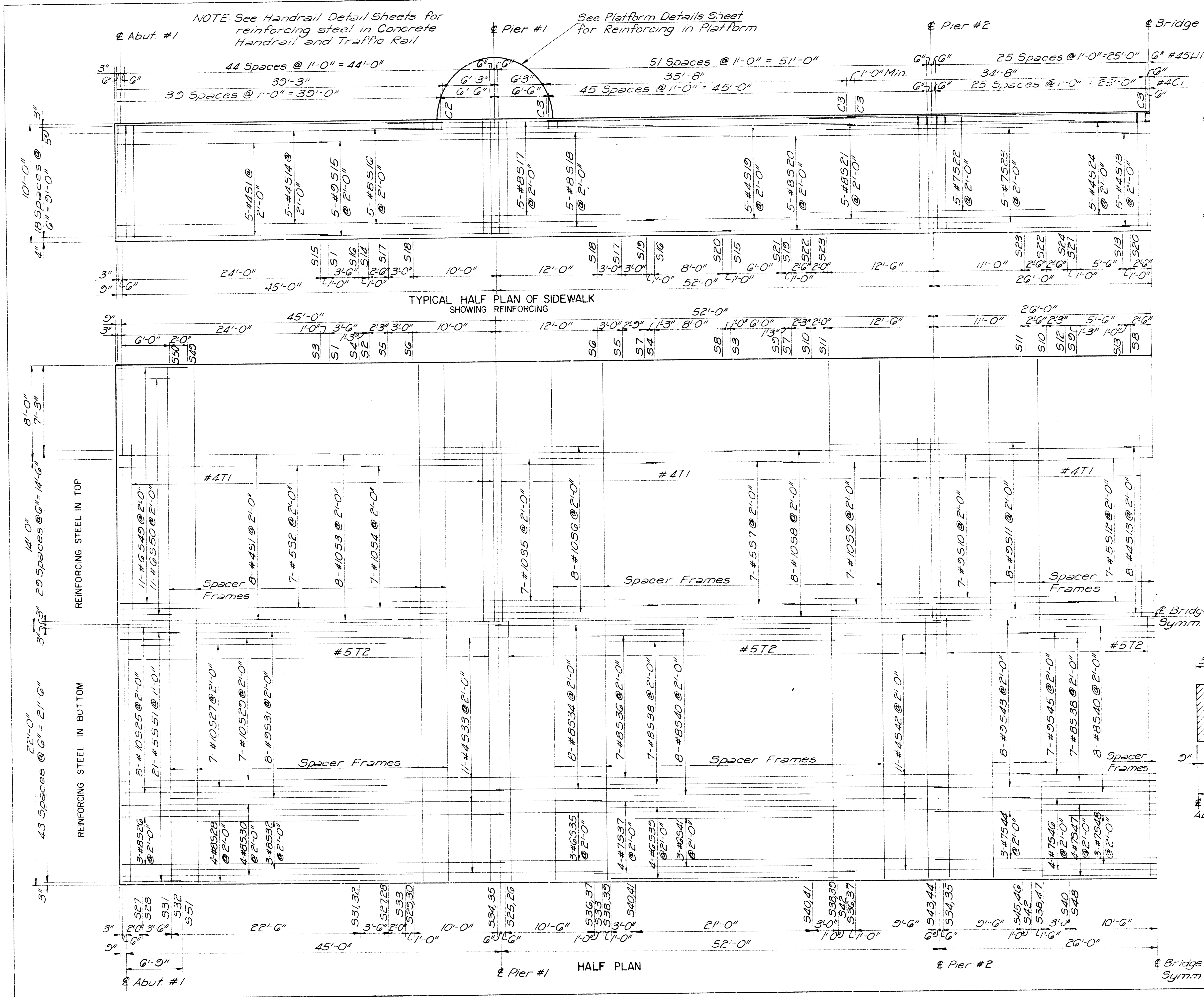
GAS LINE DETAILS (EAST SIDE)

CITY OF WICHITA, KANSAS
 R.W. LINN, PE CITY ENGINEER
ABUTMENT DETAILS
 WOODMAN BRIDGE
 OVER THE LITTLE ARKANSAS RIVER
 CITY OF WICHITA PROJECT NO. DAKB 576042
 PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS
 WICHITA, KANSAS



Top of Pile
 Pier #1 El. 1285.22
 Pier #2 El. 1286.06
 Pier #3 El. 1286.28
 Pier #4 El. 1285.88

CITY OF WICHITA KANSAS
 R.W. LINN, P.E. CITY ENGINEER
PIER DETAILS
 WOODMAN BRIDGE
 OVER THE LITTLE ARKANSAS RIVER
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CITY OF WICHITA KANSAS
R. W. LINN, PE CITY ENGINEER

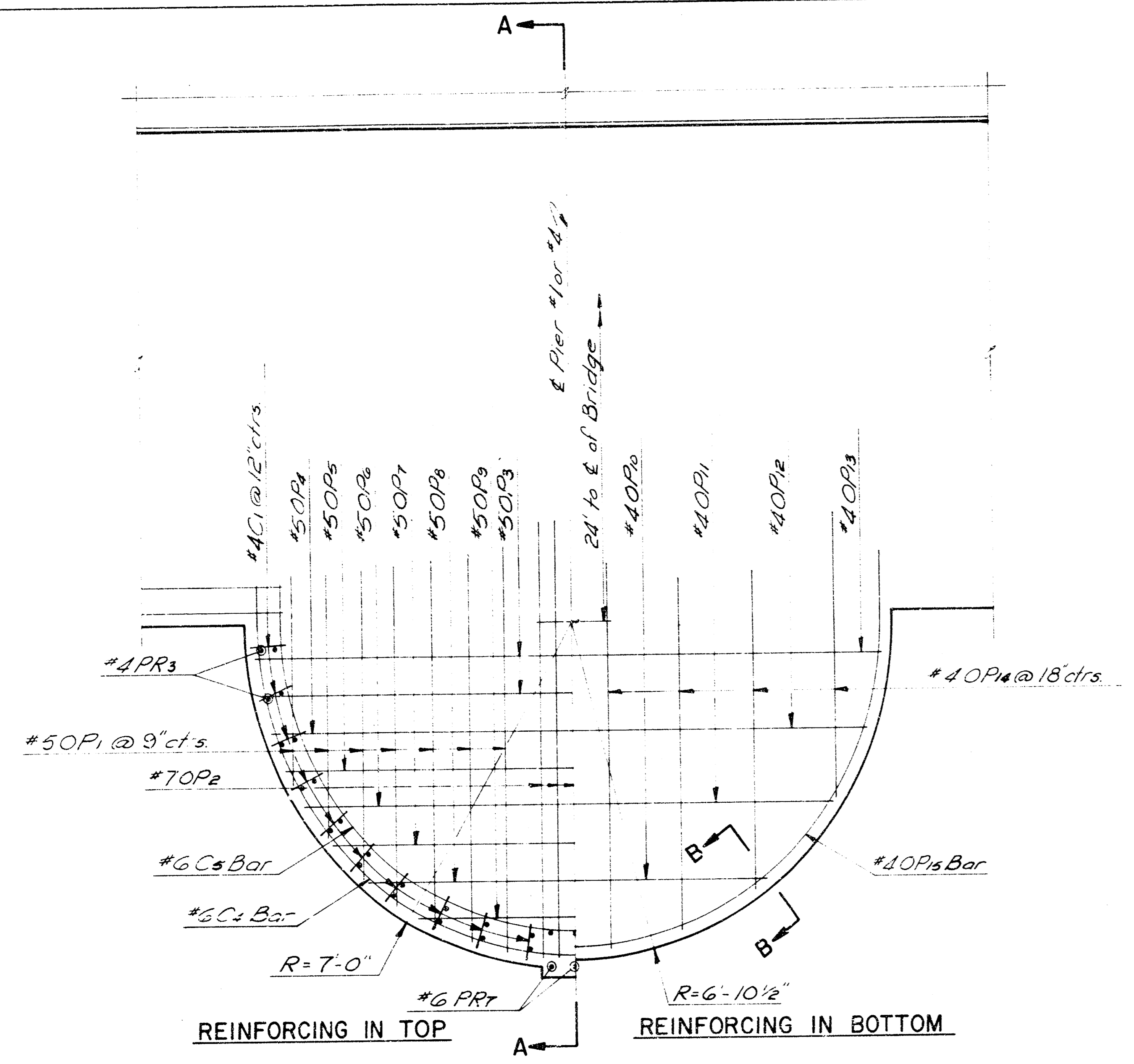
SUPERSTRUCTURE LAYOUT
WOODMAN BRIDGE
OVER THE LITTLE ARKANSAS RIVER
CITY OF WICHITA PROJECT NO DAKB 576042

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

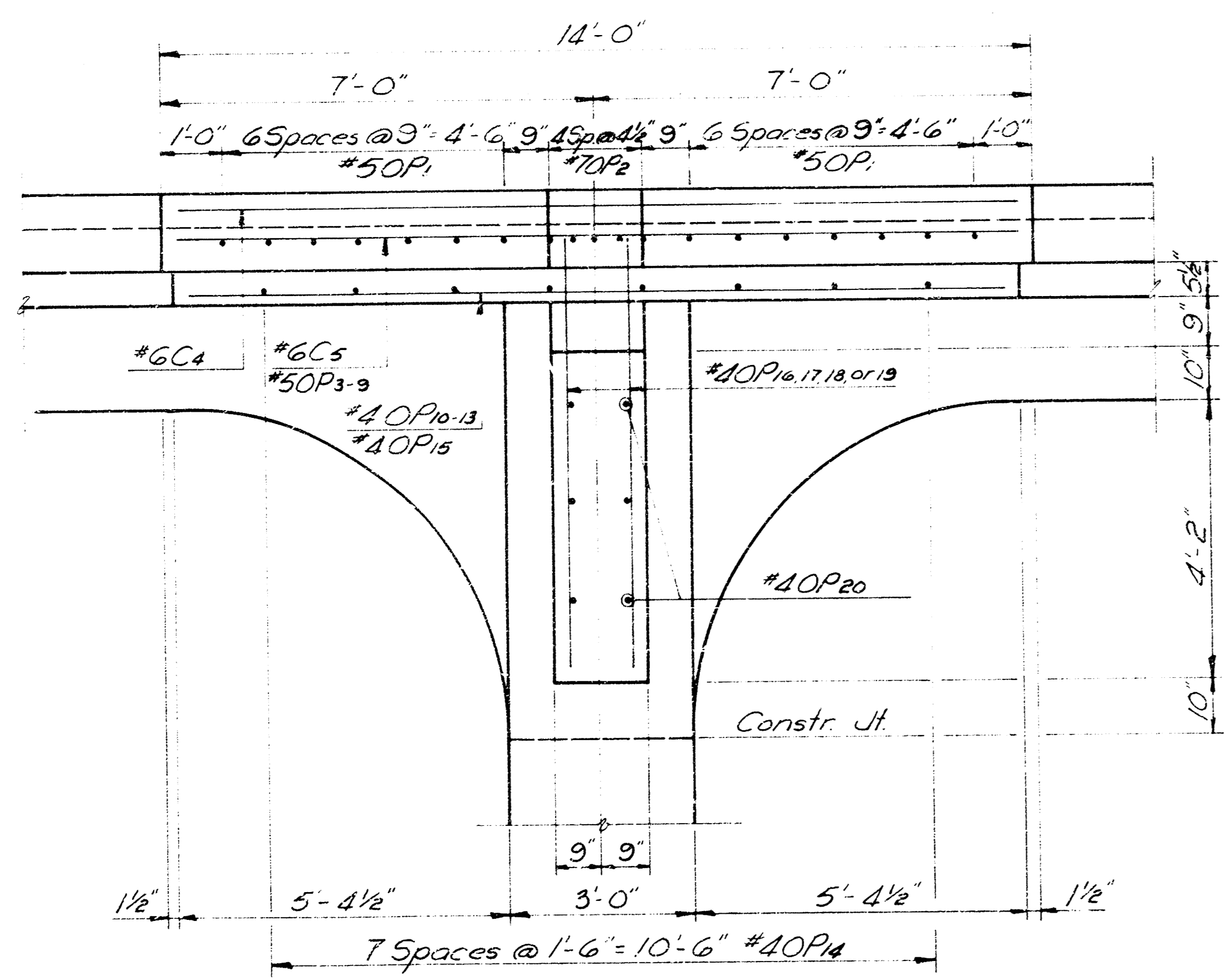
WICHITA, KANSAS

Designed by: _____ Date: _____
Checked by: _____ Date: _____

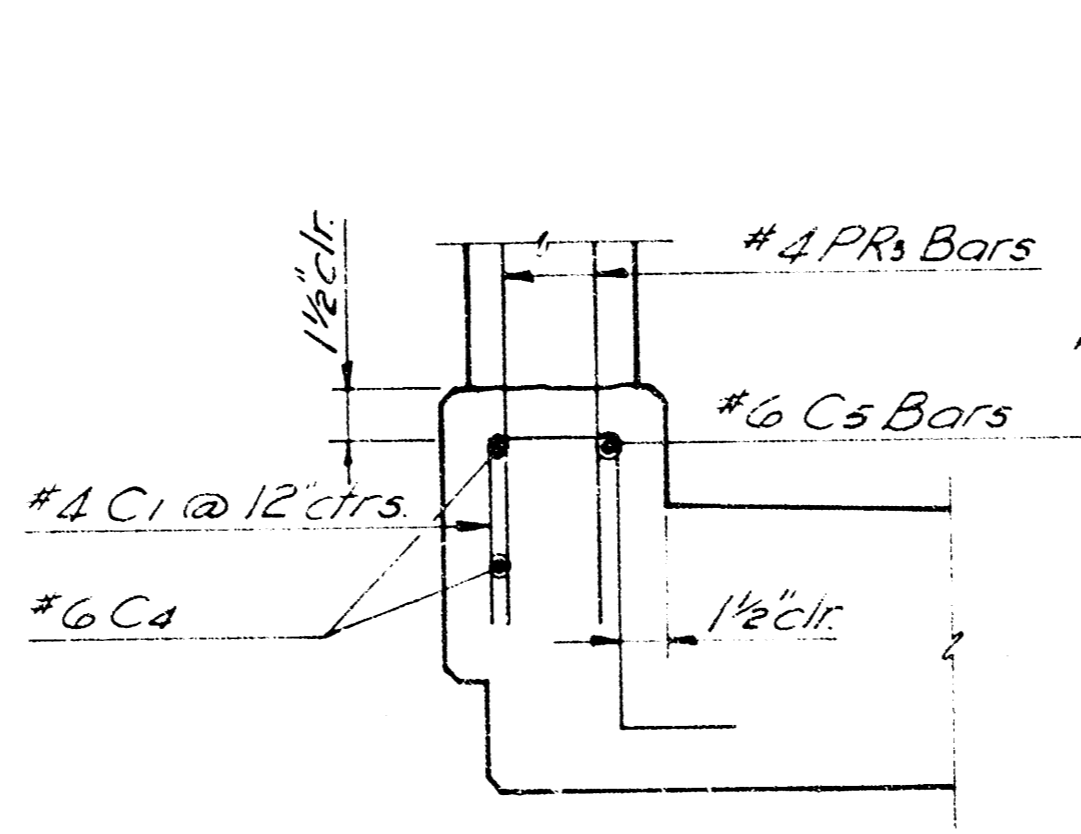
PROJECT NO.	DATE	SHEET NO.	TOTAL SHEETS
DAKB 576042	77	11	17



PLAN



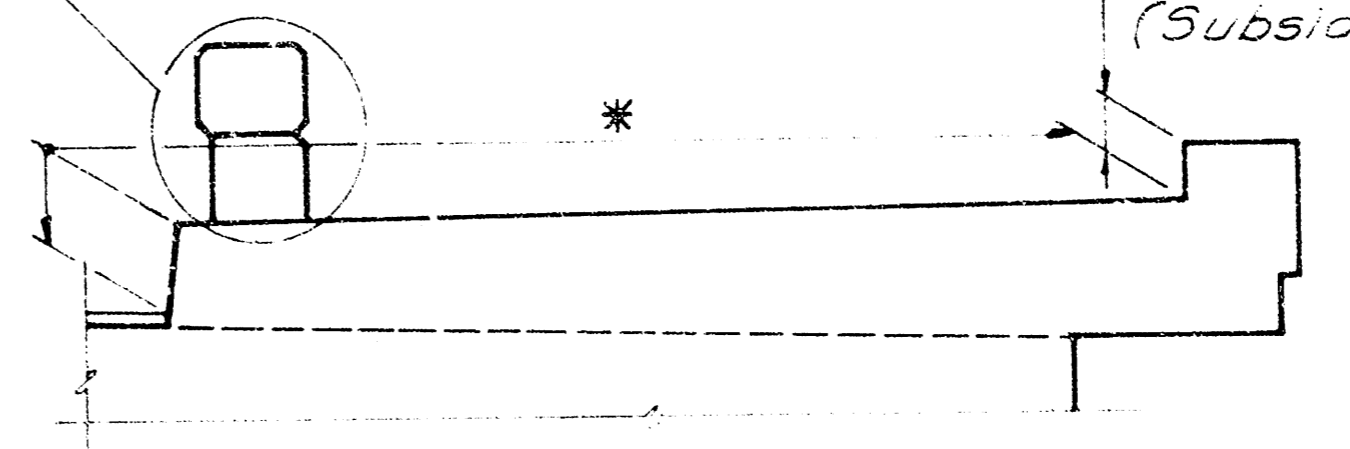
ELEVATION



SECTION B-B

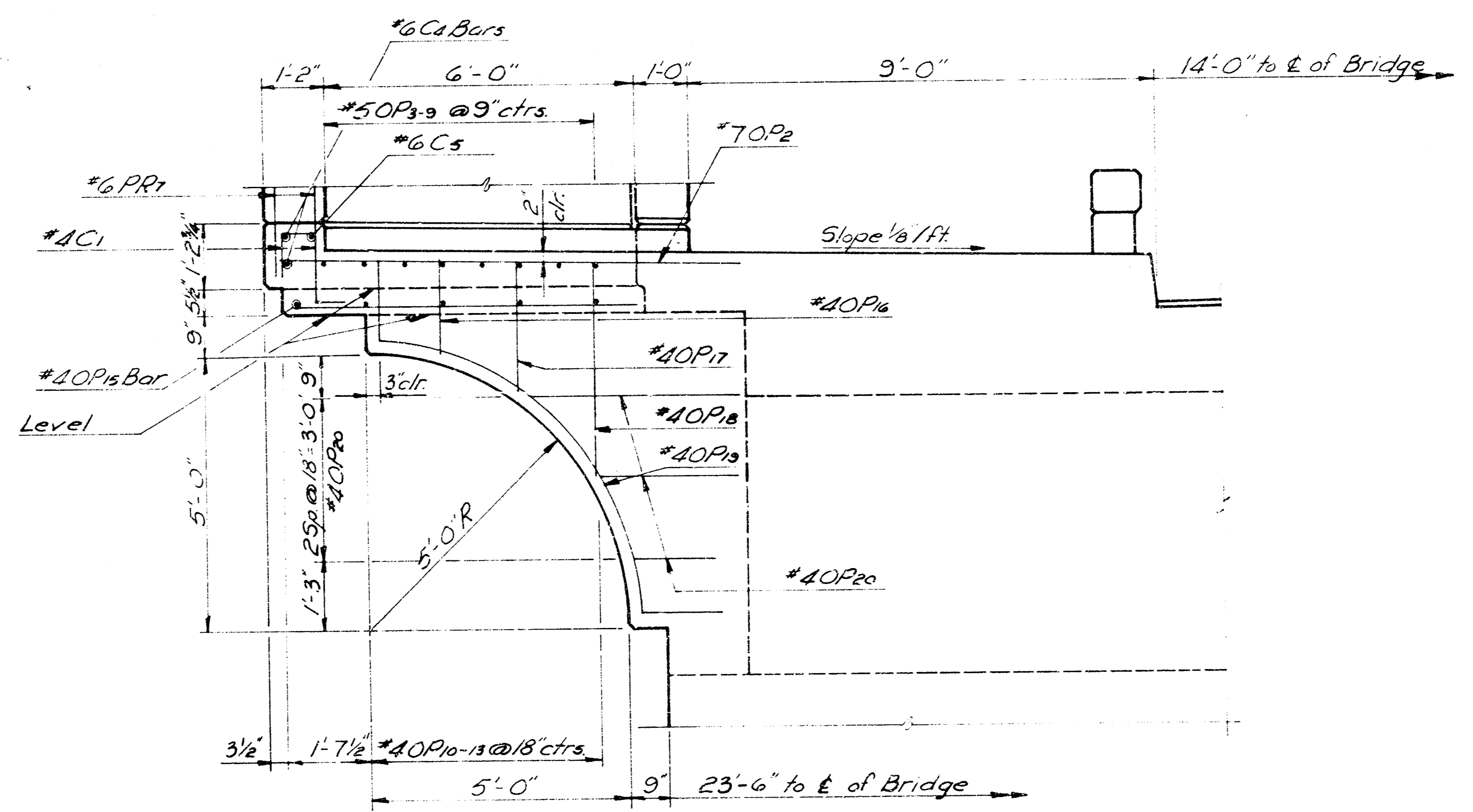
Linseed Oil Treatment all exposed surfaces (Subsidiary Item)

Linseed Oil Surface Treatment (Subsidiary Item)



LINSEED OIL SURFACE TREATMENT

Note: Linseed Oil Treatment to include Observation Platforms.

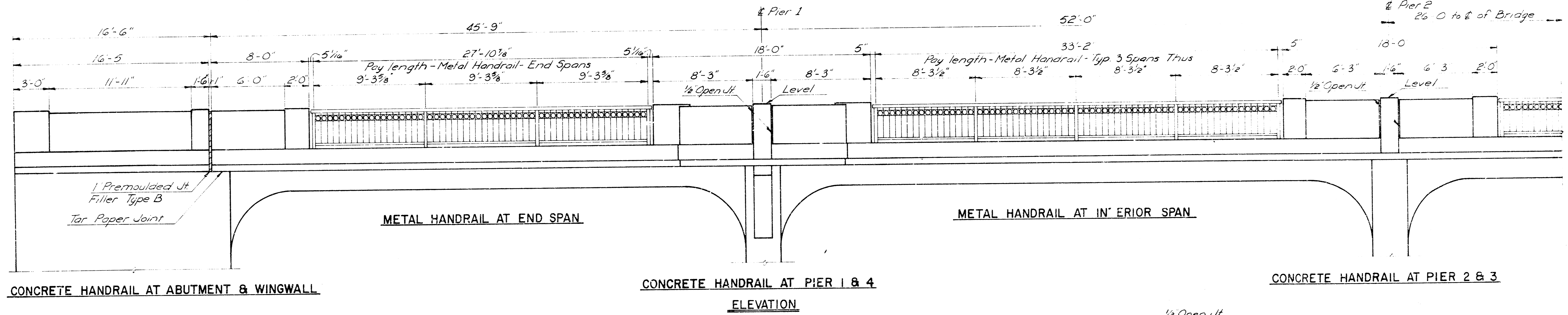


SECTION A-A

CITY OF WICHITA KANSAS
R.W. LINN, PE CITY ENGINEER
PLATFORM DETAILS
WOODMAN BRIDGE
OVER THE LITTLE ARKANSAS RIVER
CITY OF WICHITA PROJECT NO. DAKB 576042
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
ENGINEERS
WICHITA, KANSAS

Designed by	Checked by
Drawn by	Date

PROJECT NO.	DAKB 576042	SHEET NO.	77	TOTAL SHEETS	17
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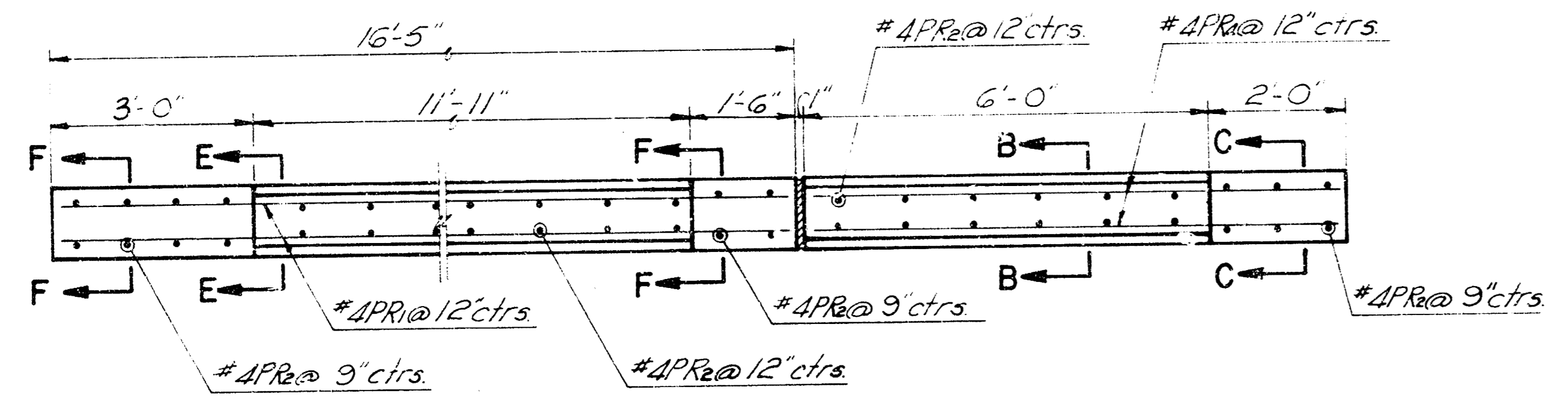


CONCRETE HANDRAIL AT ABUTMENT & WINGWALL

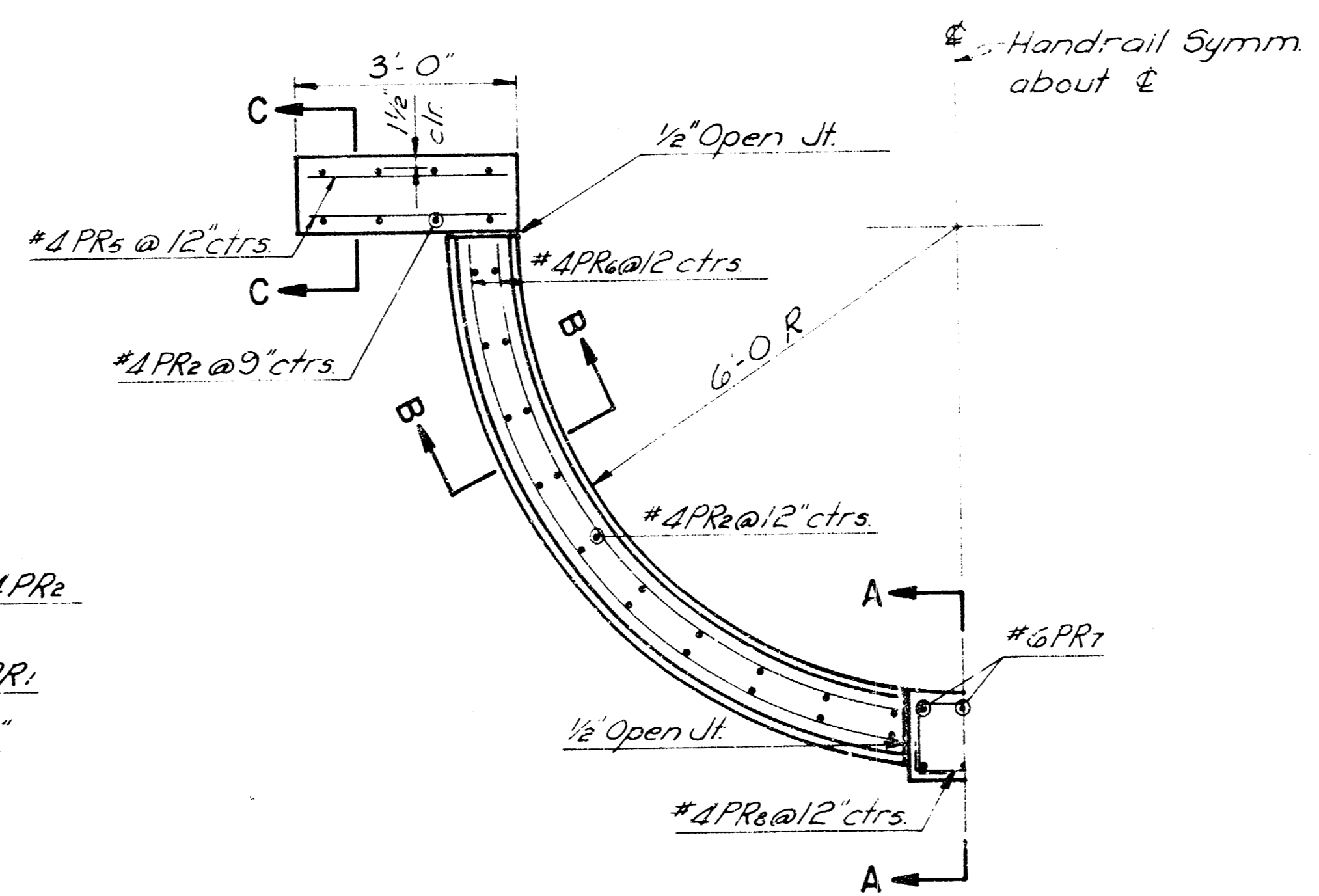
CONCRETE HANDRAIL AT PIER 1 & 4

CONCRETE HANDRAIL AT PIER 2 & 3

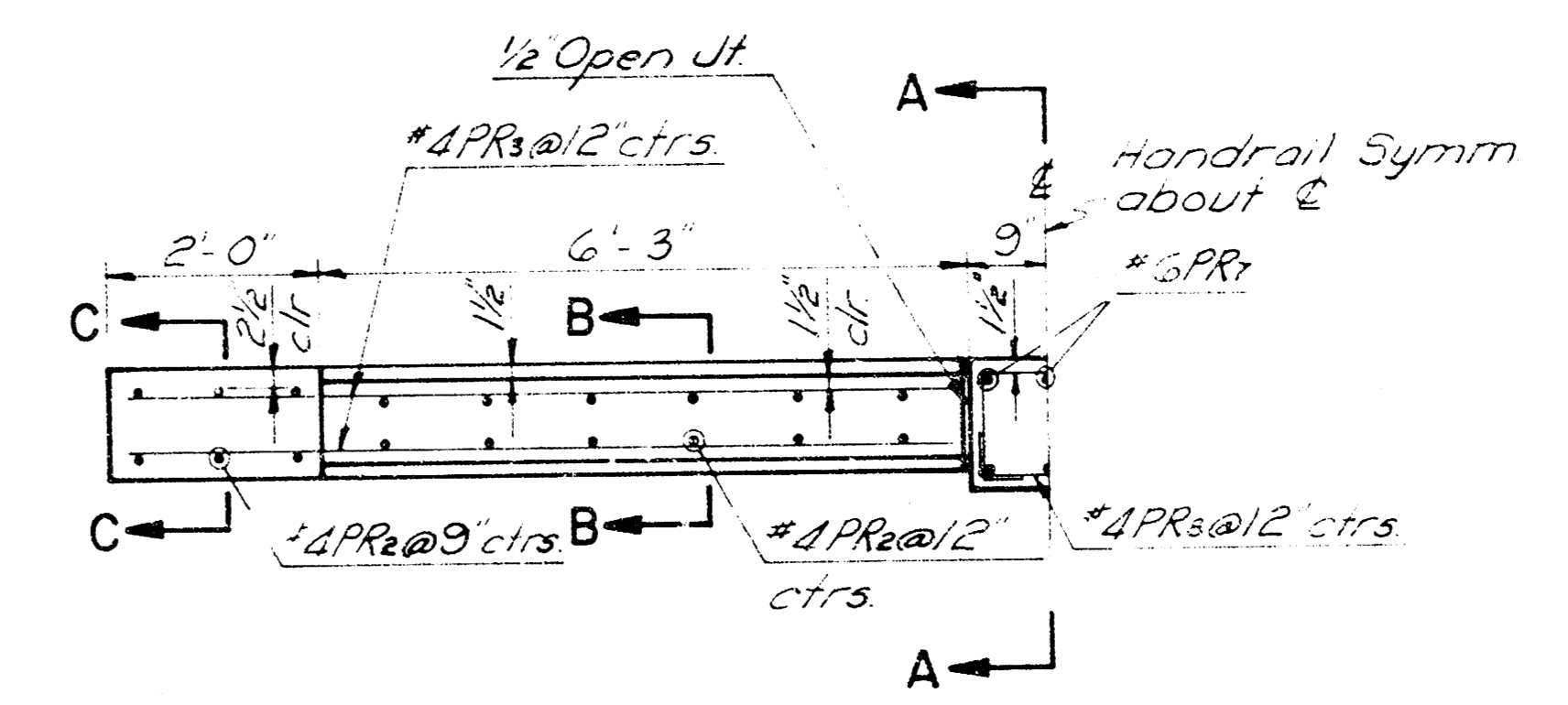
ELEVATION



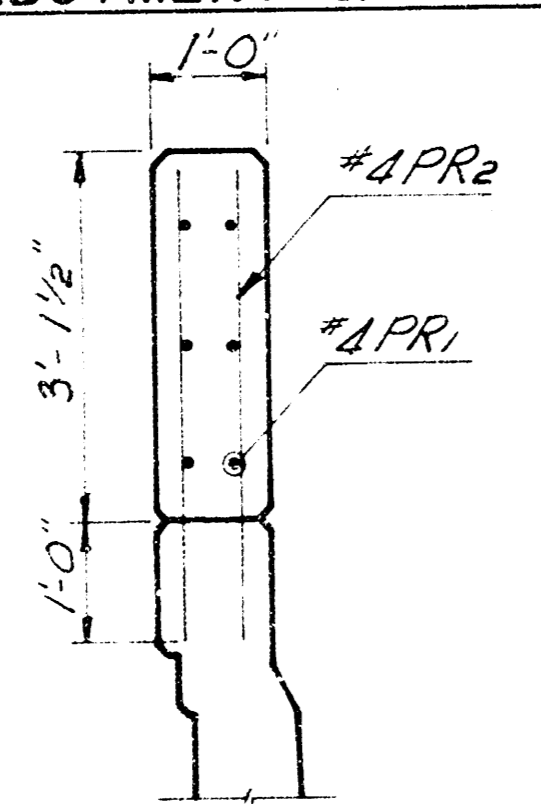
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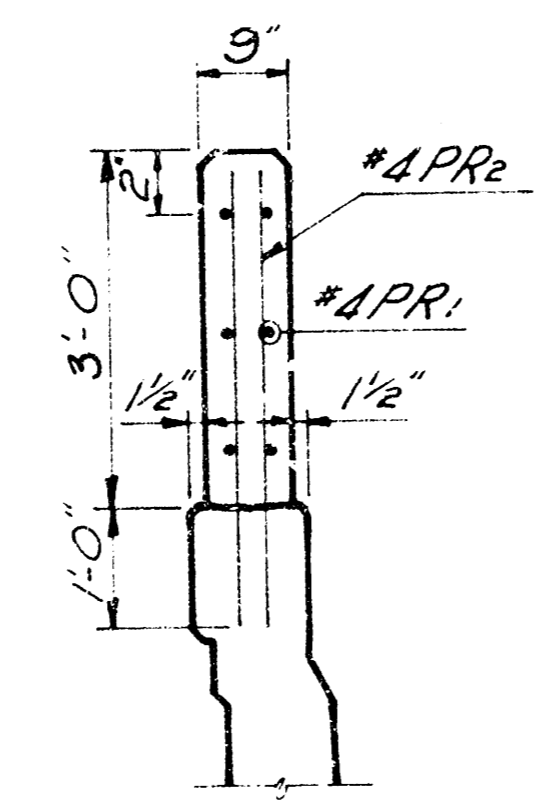
CONCRETE HANDRAIL AT PLATFORM



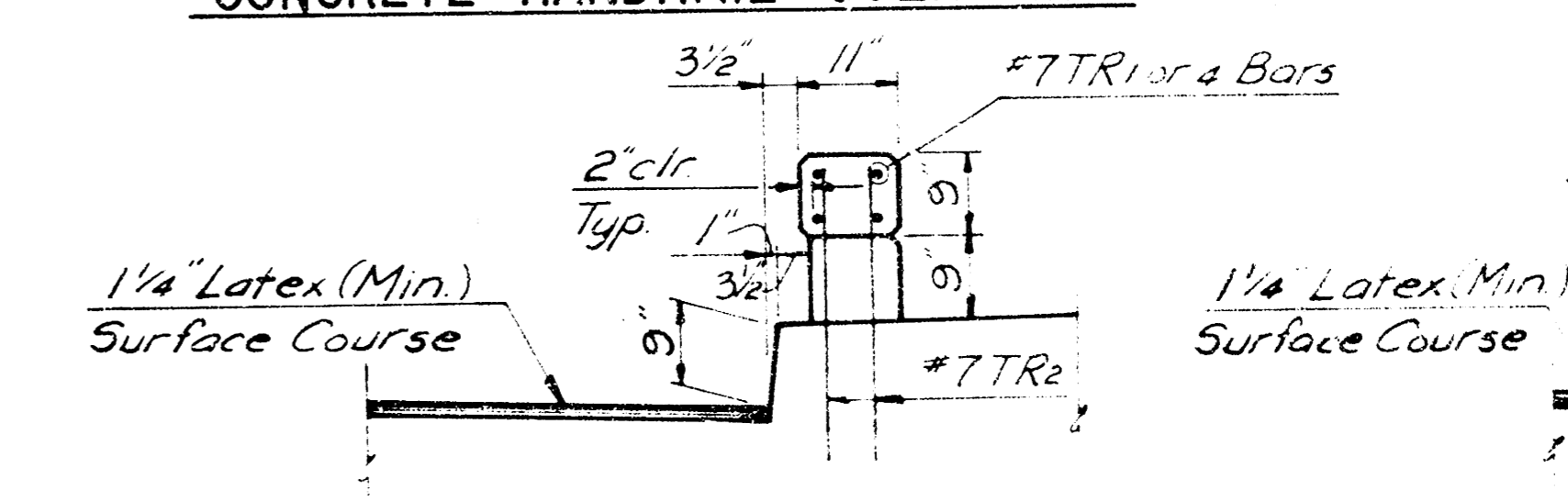
CONCRETE HANDRAIL OVER PIER



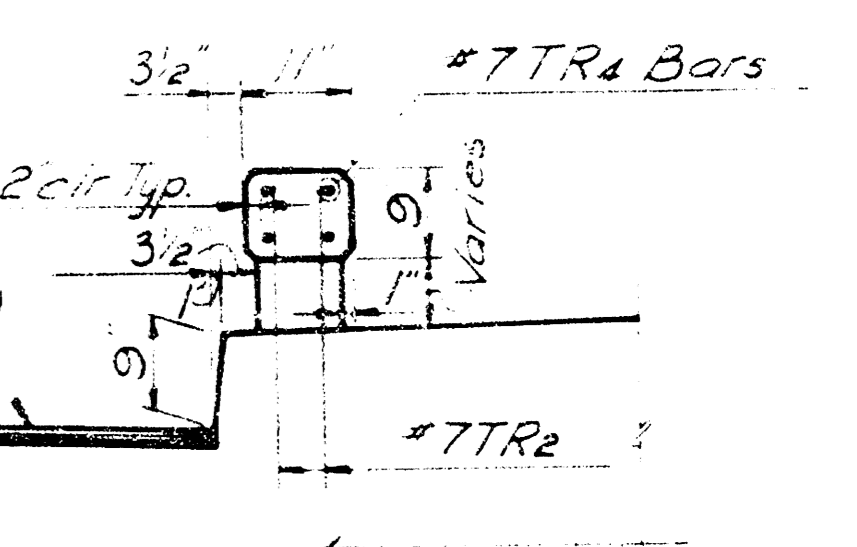
SECTION F-F



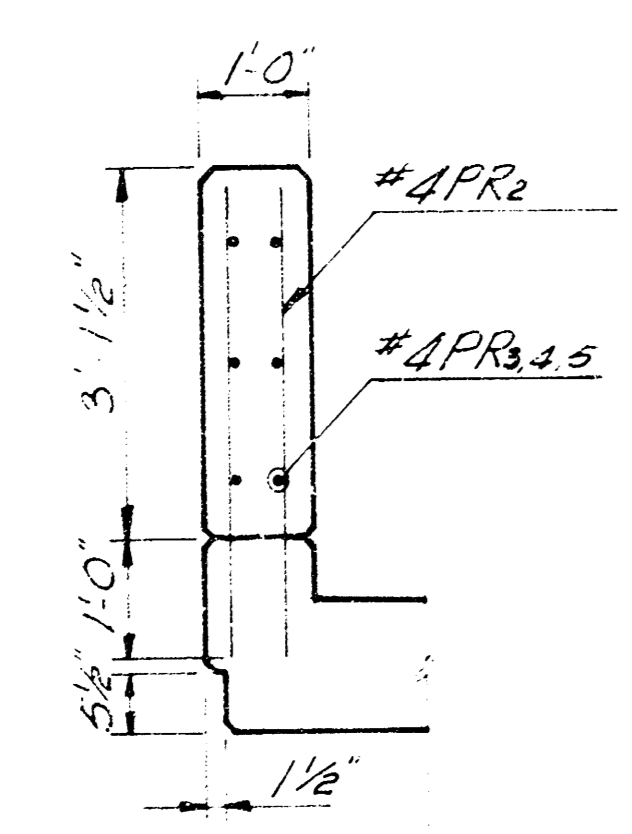
SECTION E-E



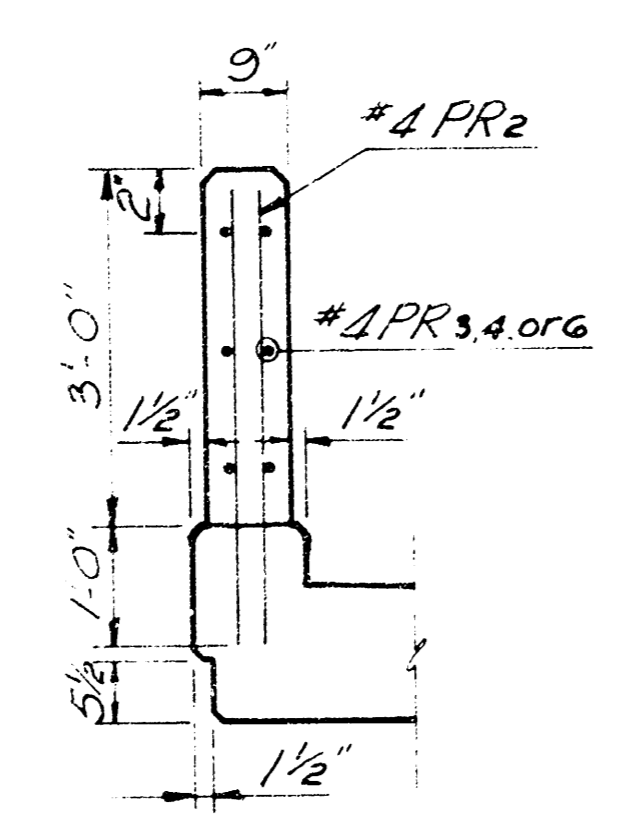
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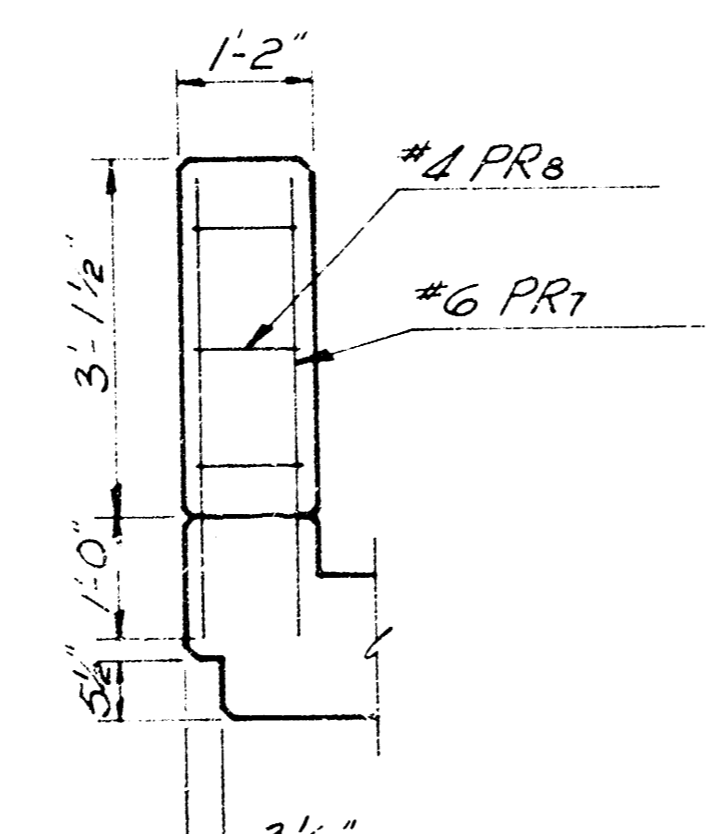
SECTION G-G



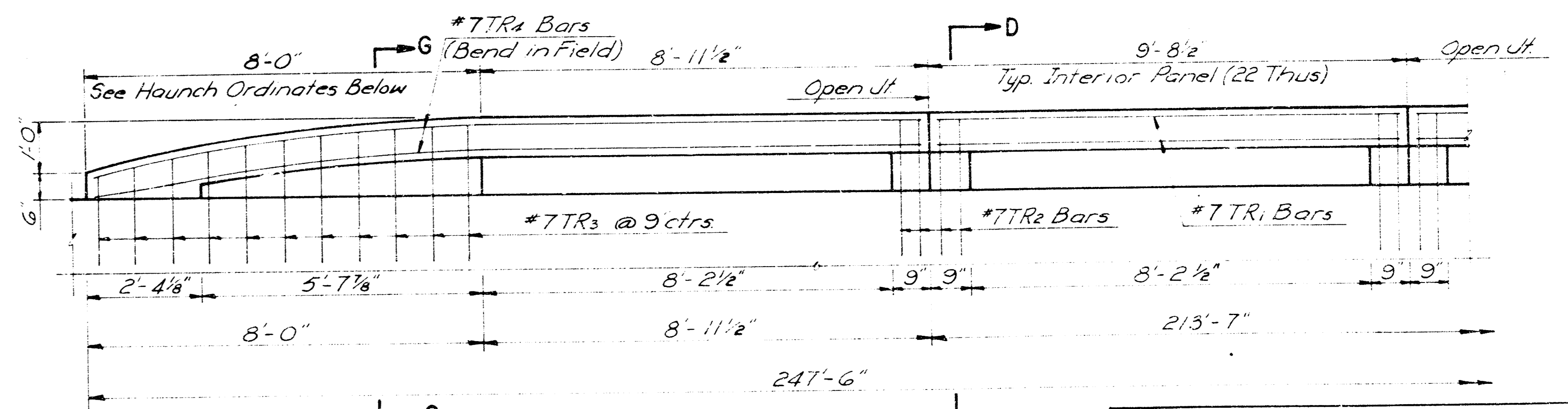
SECTION C-C



SECTION B-B

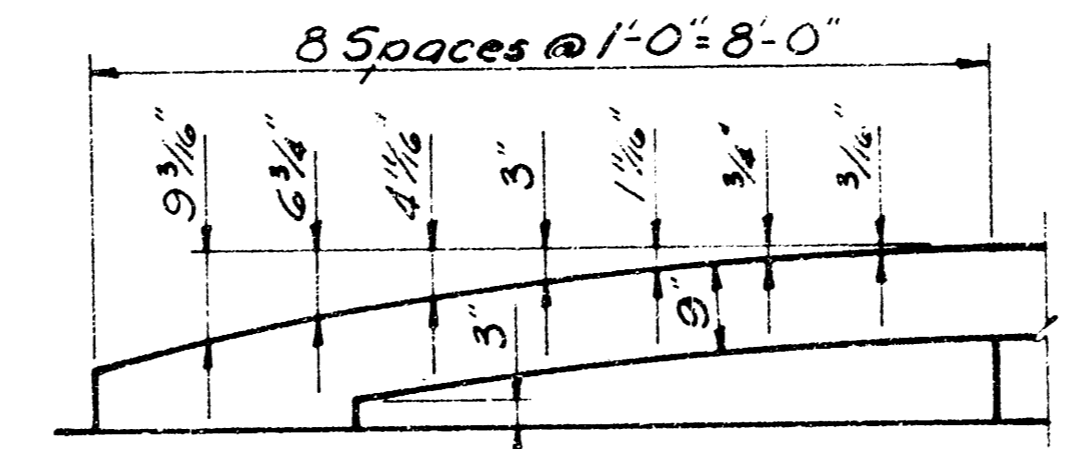


SECTION A-A



TRAFFIC RAIL ELEVATION

All handrail joints shall be 1/2" open joints except those within 10'-0" of the piers and those shall be 1/4" open joints.



HAUNCH ORDINATES

CITY OF WICHITA KANSAS
 R.W. LINN, PE, CITY ENGINEER
HANDRAIL DETAILS
 WOODMAN BRIDGE
 OVER THE LITTLE ARKANSAS RIVER
 CITY OF WICHITA PROJECT NO. DAKB 576042
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS
 WICHITA, KANSAS

Designed by	Checked by
Drawn by	Date

PROJECT NO.	FINAL YEAR	SHEET NO.	TOTAL SHEETS
DAKB 576042	77	13	17

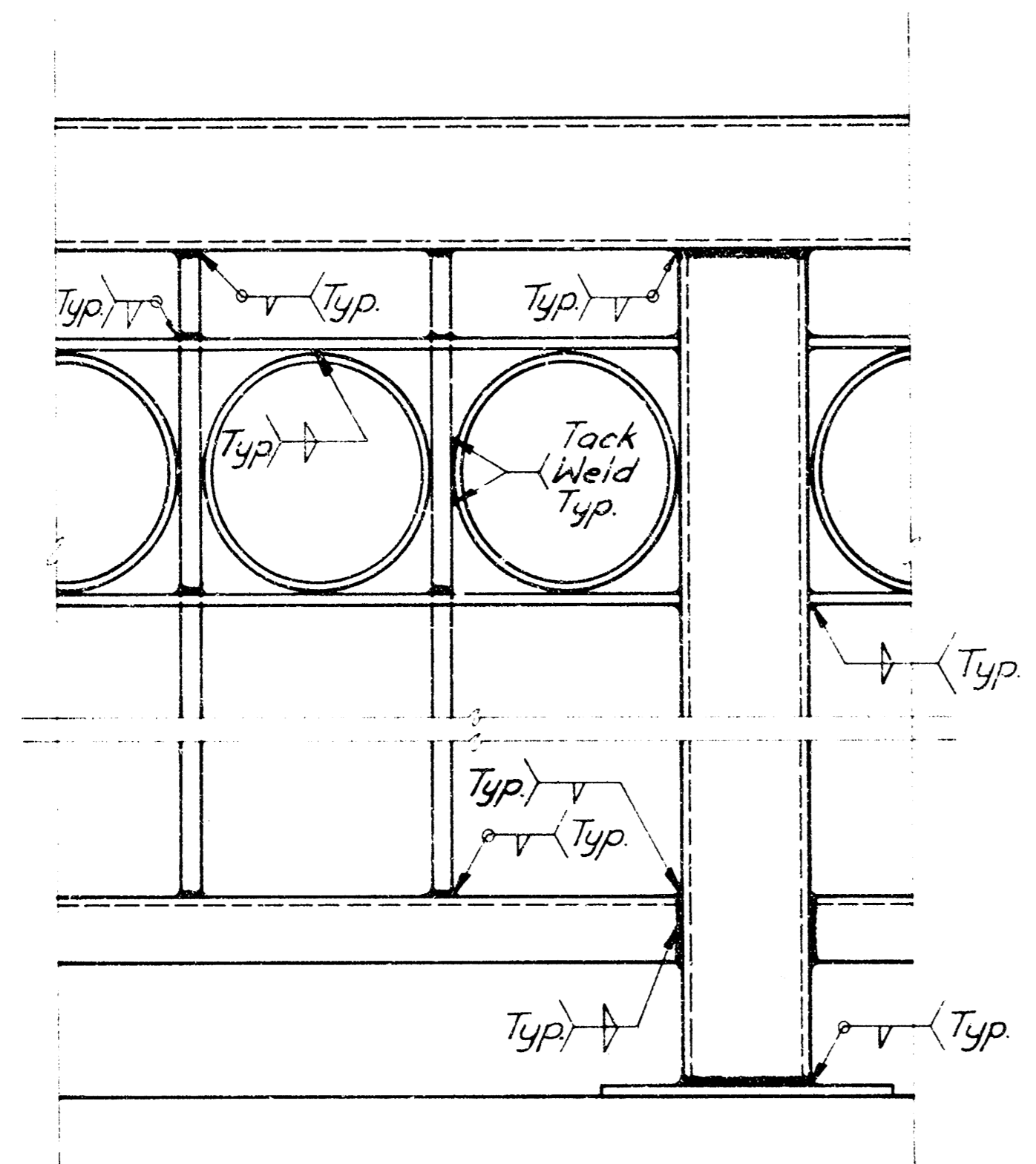
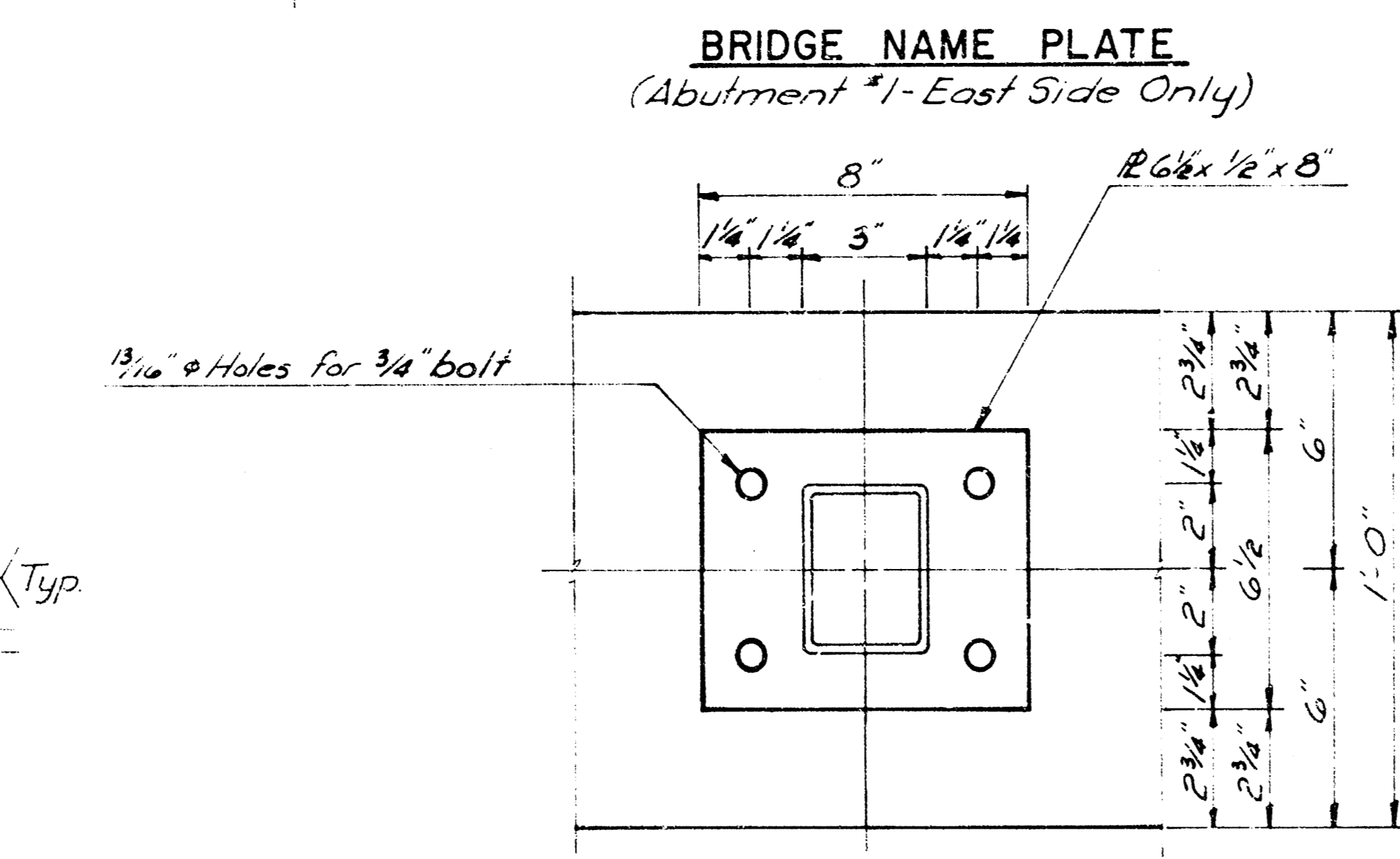
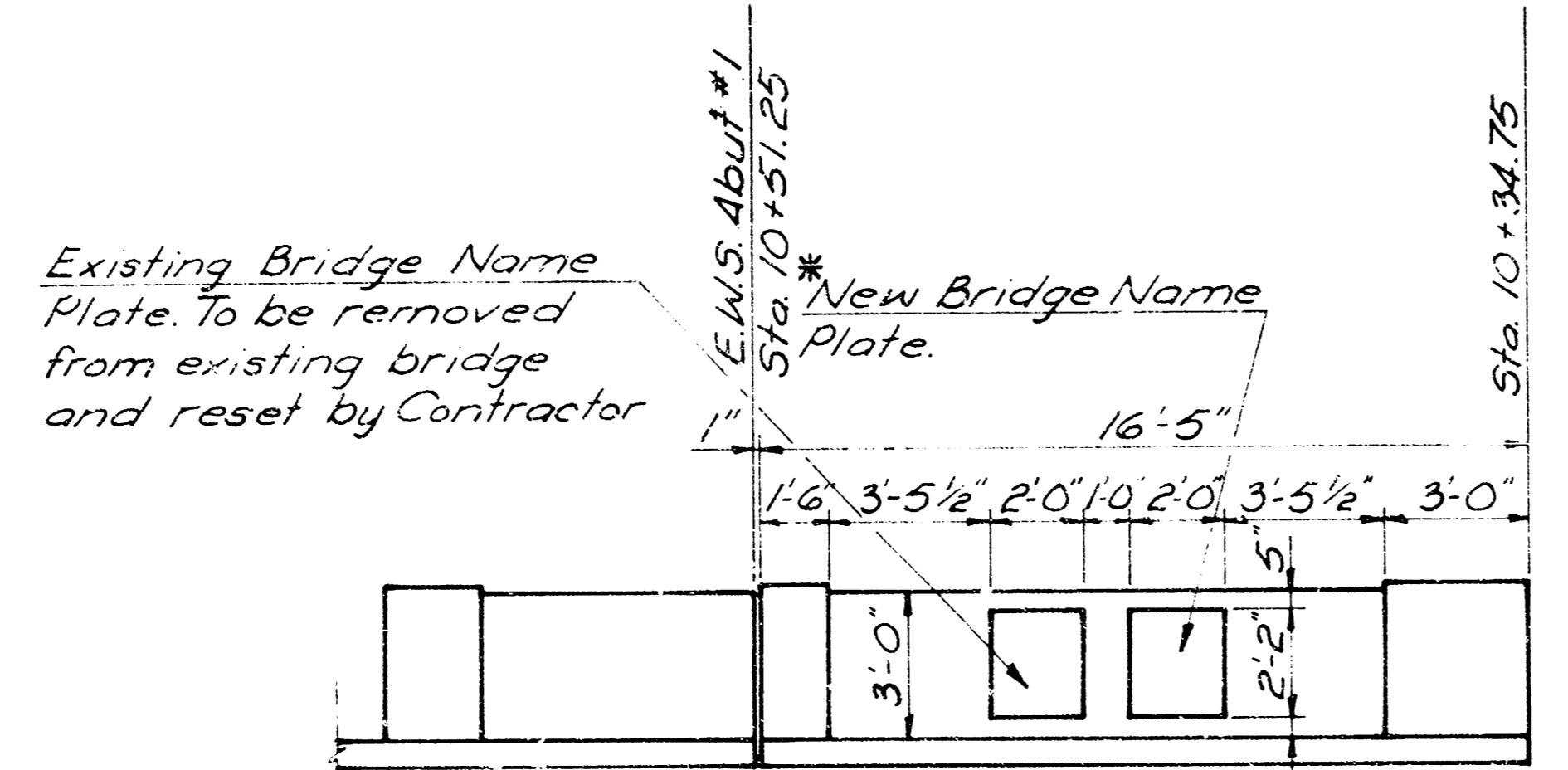
*New Bridge Name Plate shall be $\frac{3}{16}$ " x 24" x 26" bronze with concealed mountings. It shall have a 1" wide border and ribbon style letters. It shall contain the following information:

WOODMAN BRIDGE
 1976
 CITY OF WICHITA
 JAMES M. DONNELL - MAYOR
 GLENN J. SHANAHAN VICE MAYOR
 A. F. (TONY) CASADO
 ROBERT I. CORY
 CONNIE A. PETERS
 COMMISSIONERS
 E. H. DENTON
 CITY MANAGER
 DESIGN LOADING HS20-44

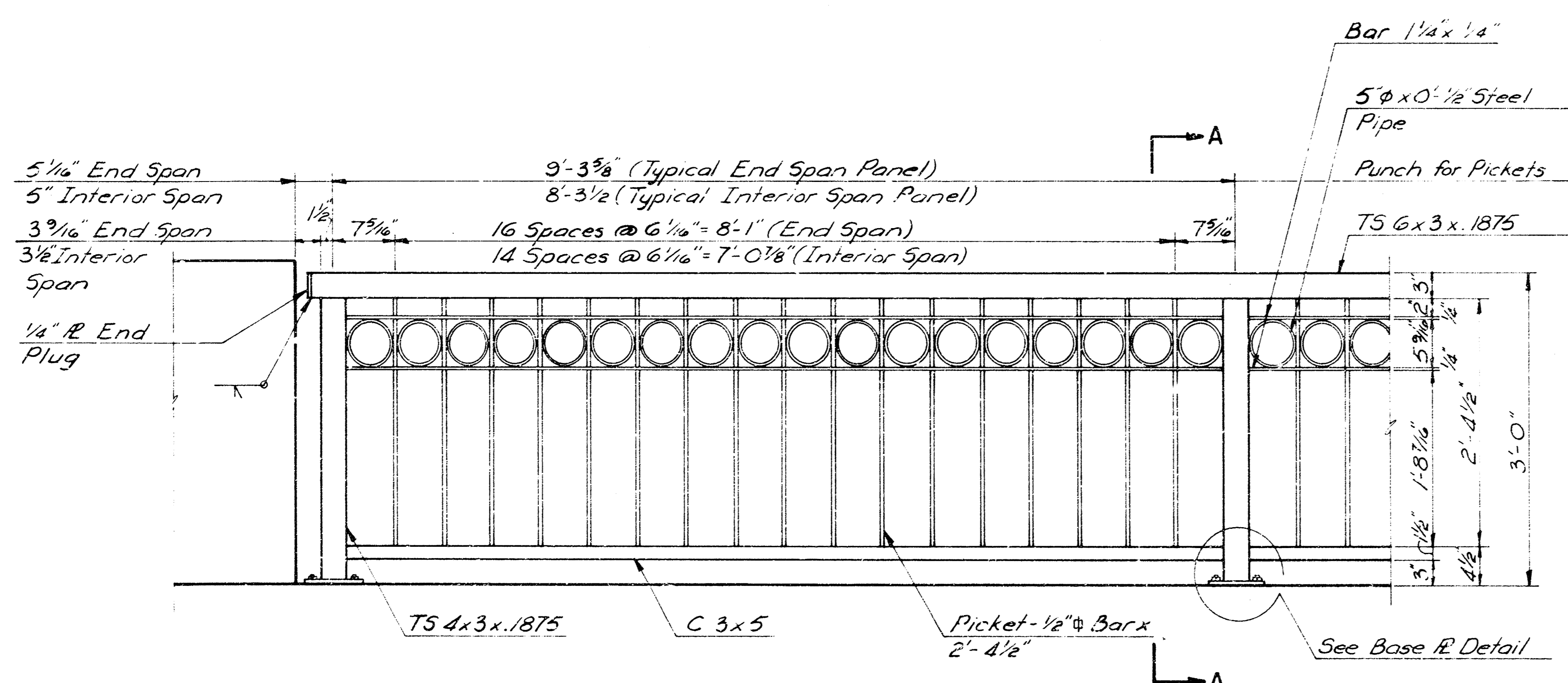
Contractor shall furnish rubbings to Engineer for approval prior to casting name plate. Cost of furnishing and installing the new name plate and the cost of removing and resetting the existing name plate shall be included in the price bid for Class I Concrete.

GENERAL NOTES

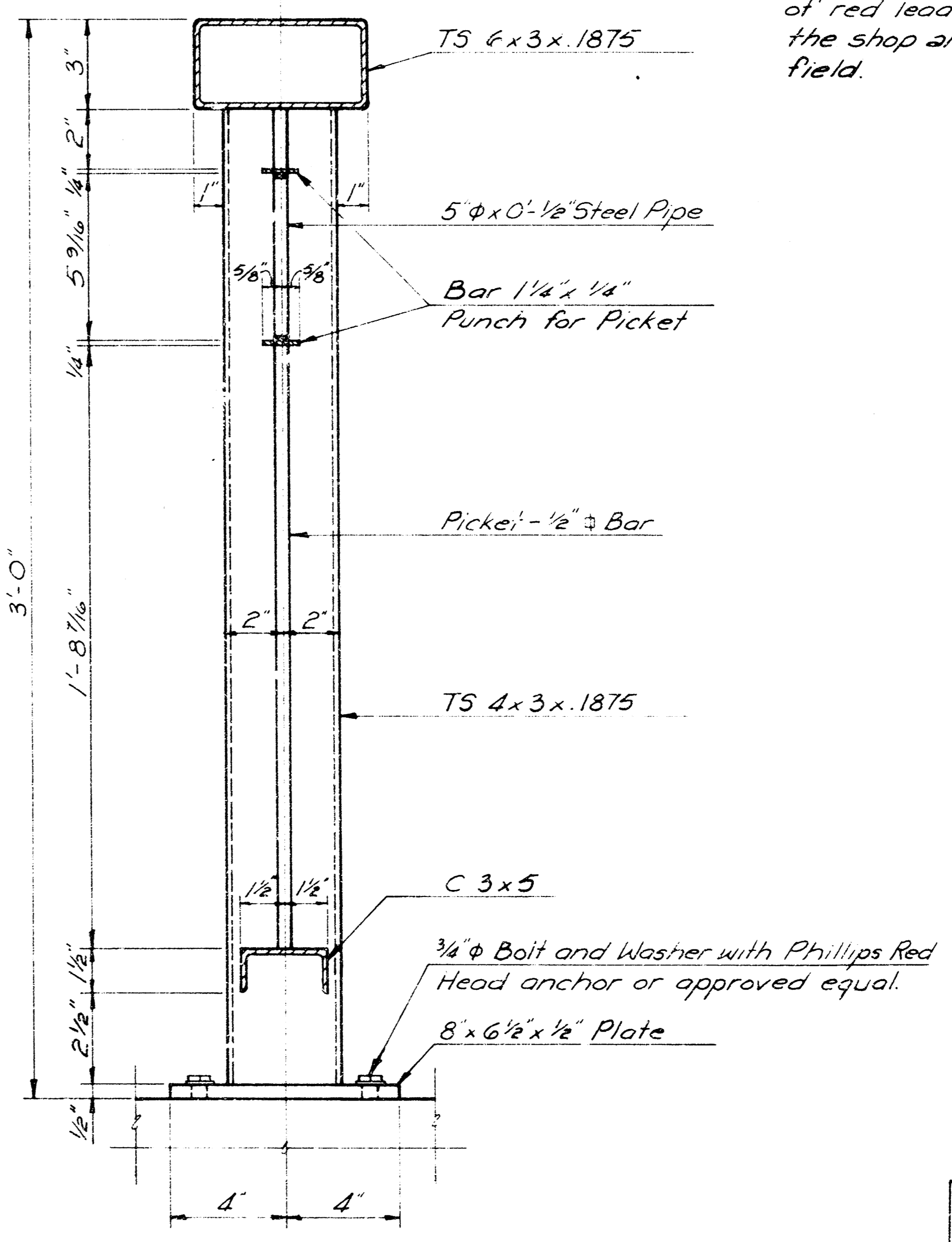
The top horizontal member of the rail and the posts shall be steel hollow structural tubing. Other shapes and plates shall conform to ASTM designation A36. All steel pipe shall conform to ASTM designation A53. Rail shall be fabricated full length for each section, and shall be fabricated to match vertical curvature of the structure. Rail posts shall be perpendicular to top of parapet. Strims may be used between concrete and base plate of posts.
 Anchors shall be $\frac{3}{4}$ " standard snap-off Phillips Red Head or approved equal. Washers shall conform to article 1006.14(e) of the standard specifications for State Road and Bridge Construction 1973 Edition Kansas Department of Transportation.
 Exposed portion of bolt and washer shall receive two coats of black paint.
 All parts of handrail shall be given one coat of red lead paint, one coat of black paint in the shop and one coat of black paint in the field.



WELD DETAIL
 All welds shall be $\frac{3}{16}$ " unless otherwise noted.



METAL HANDRAIL ELEVATION



SECTION A-A

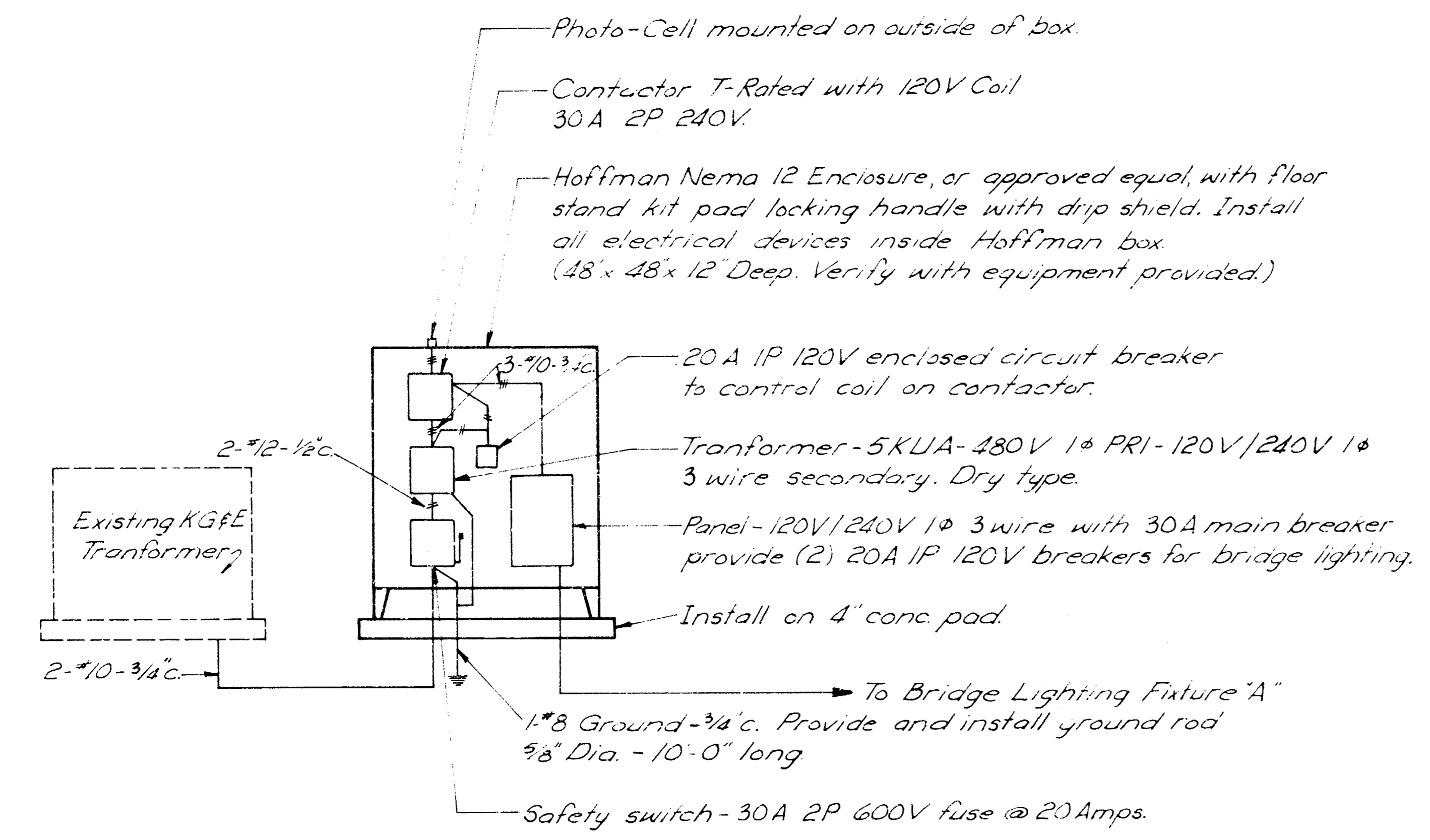
CITY OF WICHITA KANSAS
 R. W. LINN, PE CITY ENGINEER

HANDRAIL DETAILS
 WOODMAN BRIDGE
 OVER THE LITTLE ARKANSAS RIVER
 CITY OF WICHITA PROJECT NO. DAKB 576042

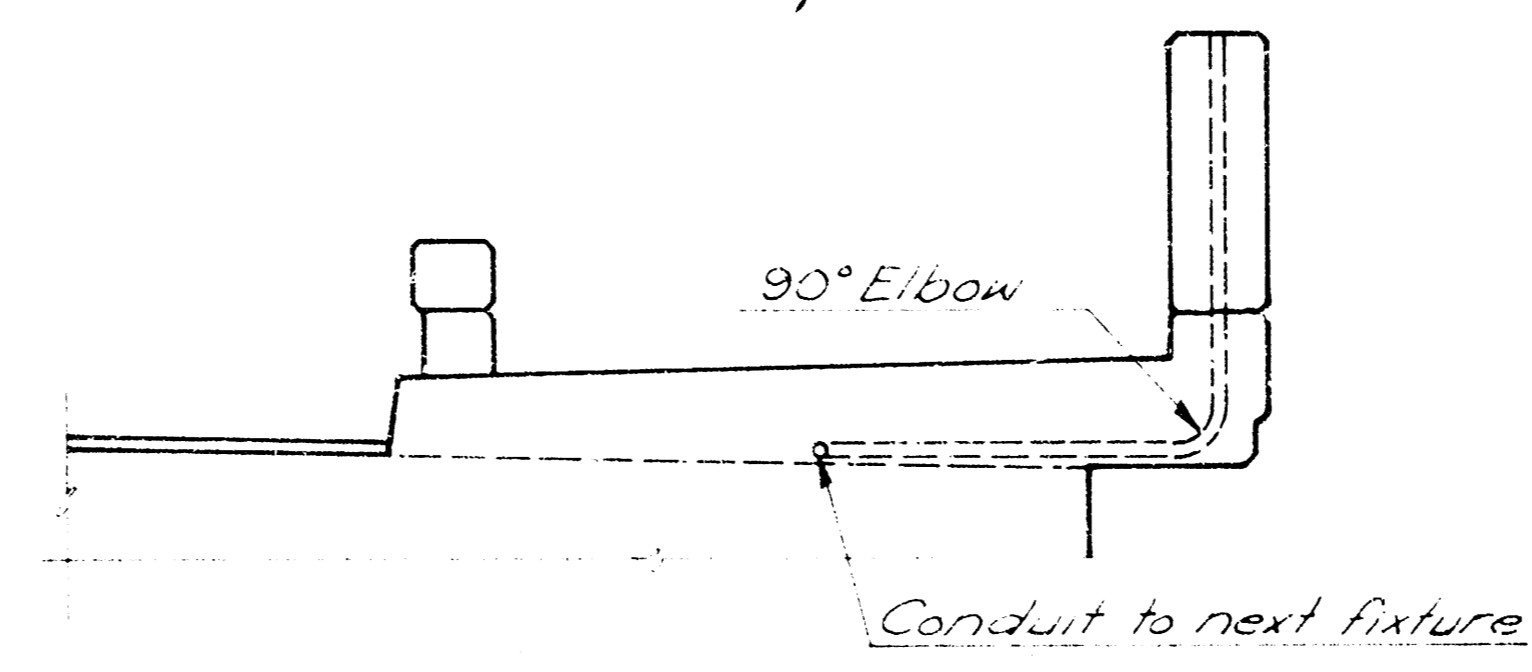
PROFESSIONAL ENGINEERING CONSULTANTS, P.A.
 ENGINEERS
 WICHITA, KANSAS

Designed by	Checked by
Drawn by	Date

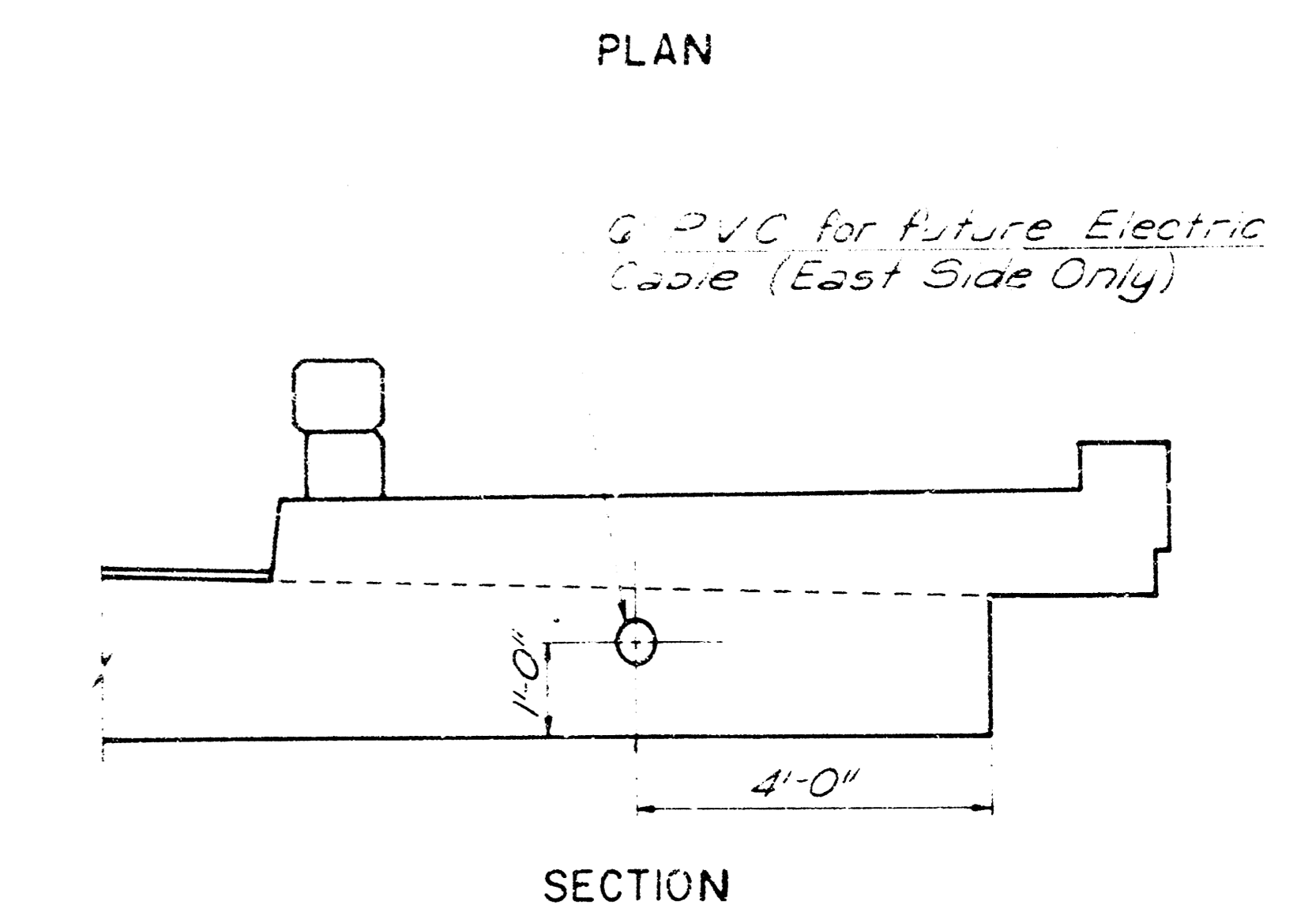
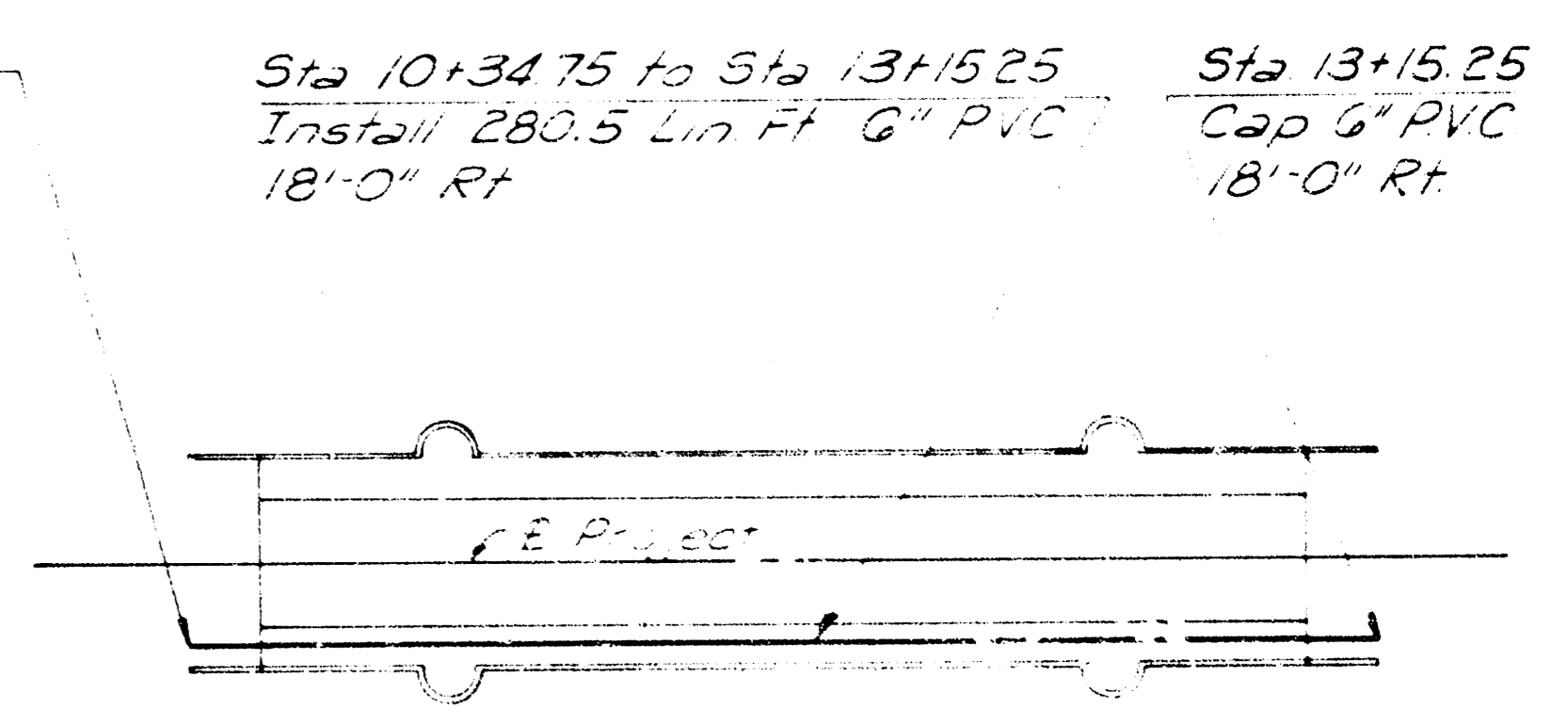
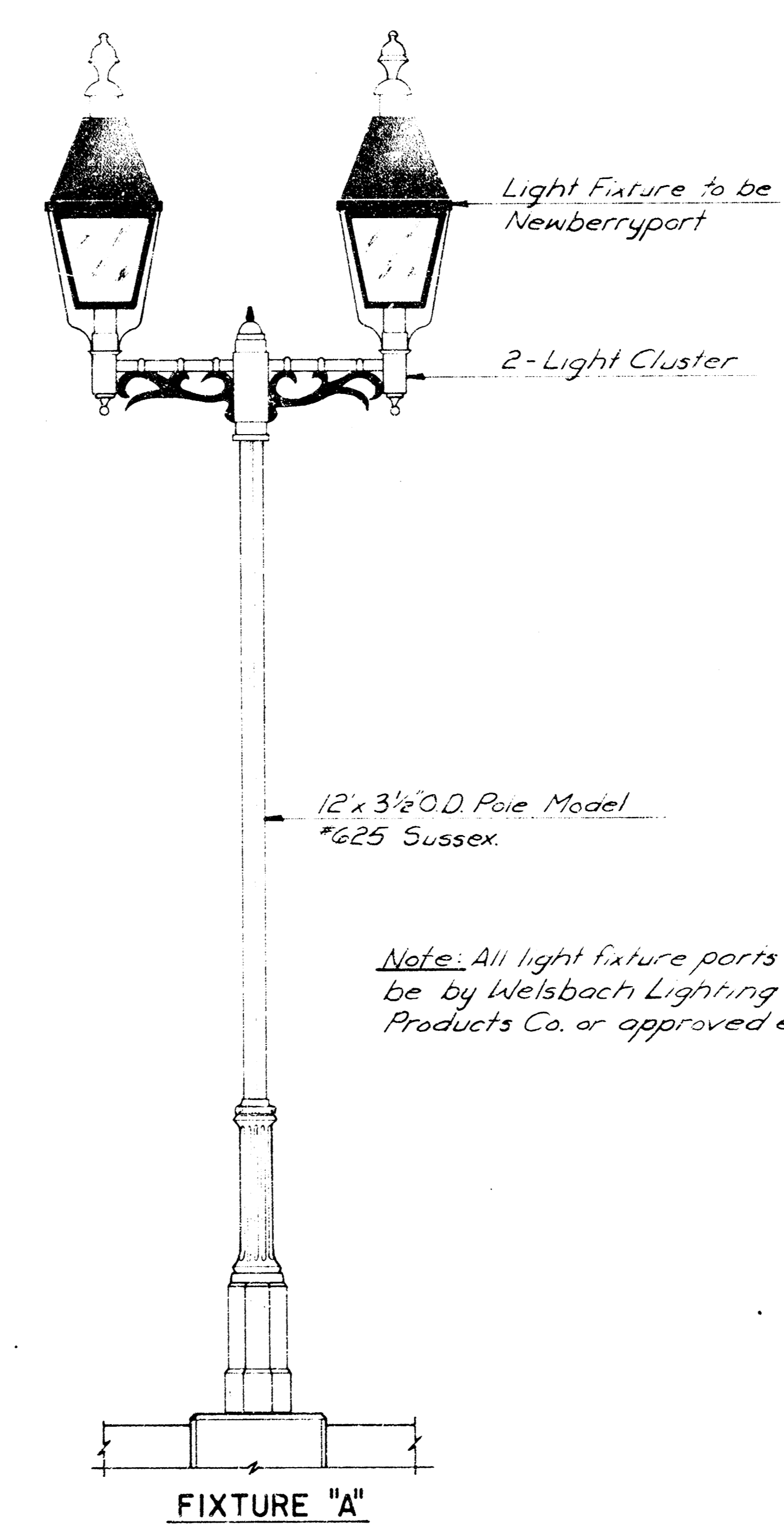
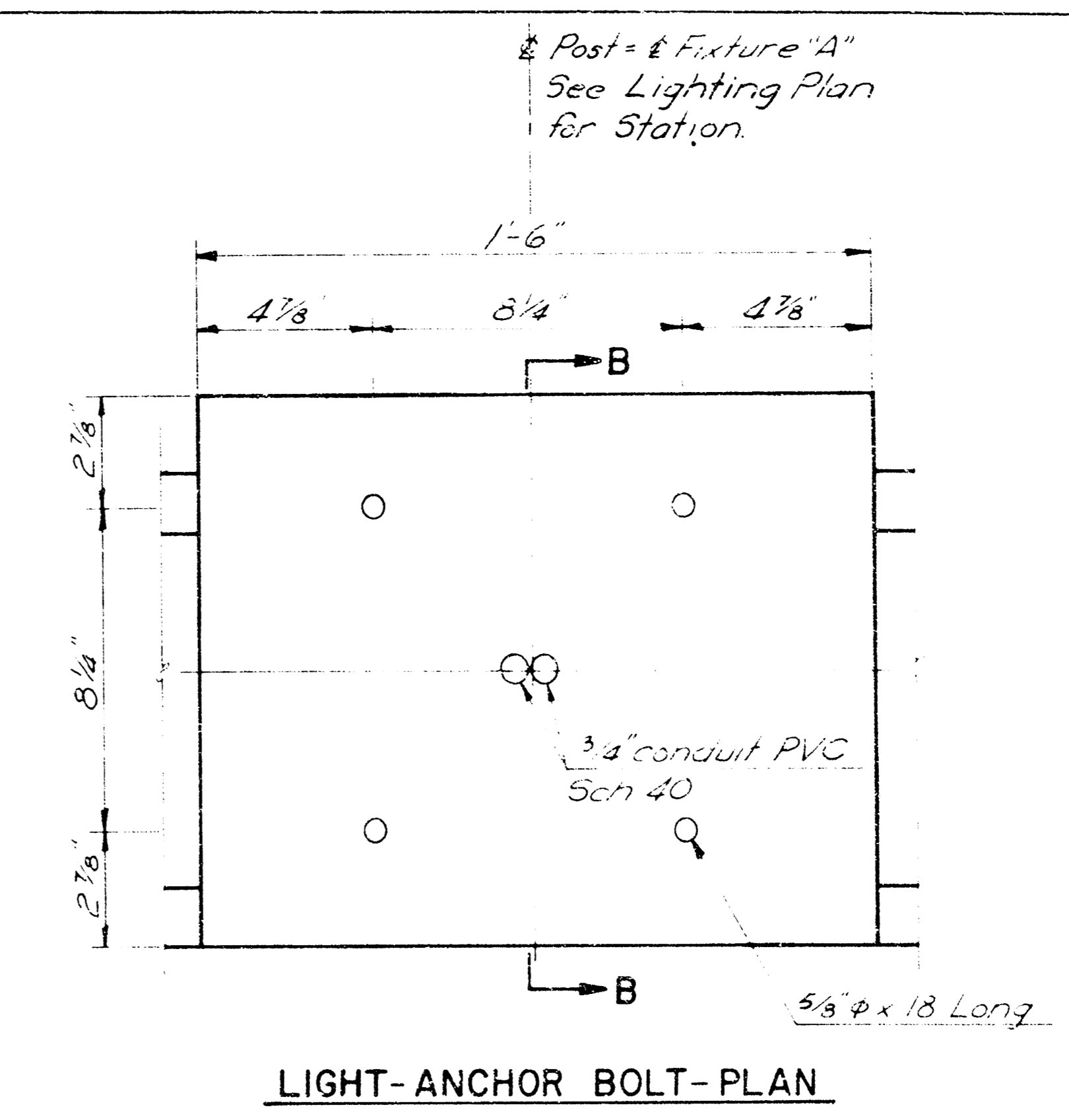
PROJECT NO.	DATE	BY	CHKD.
DAKB 576042	77 14	17	



LIGHTING CONTROL PANEL DIAGRAM

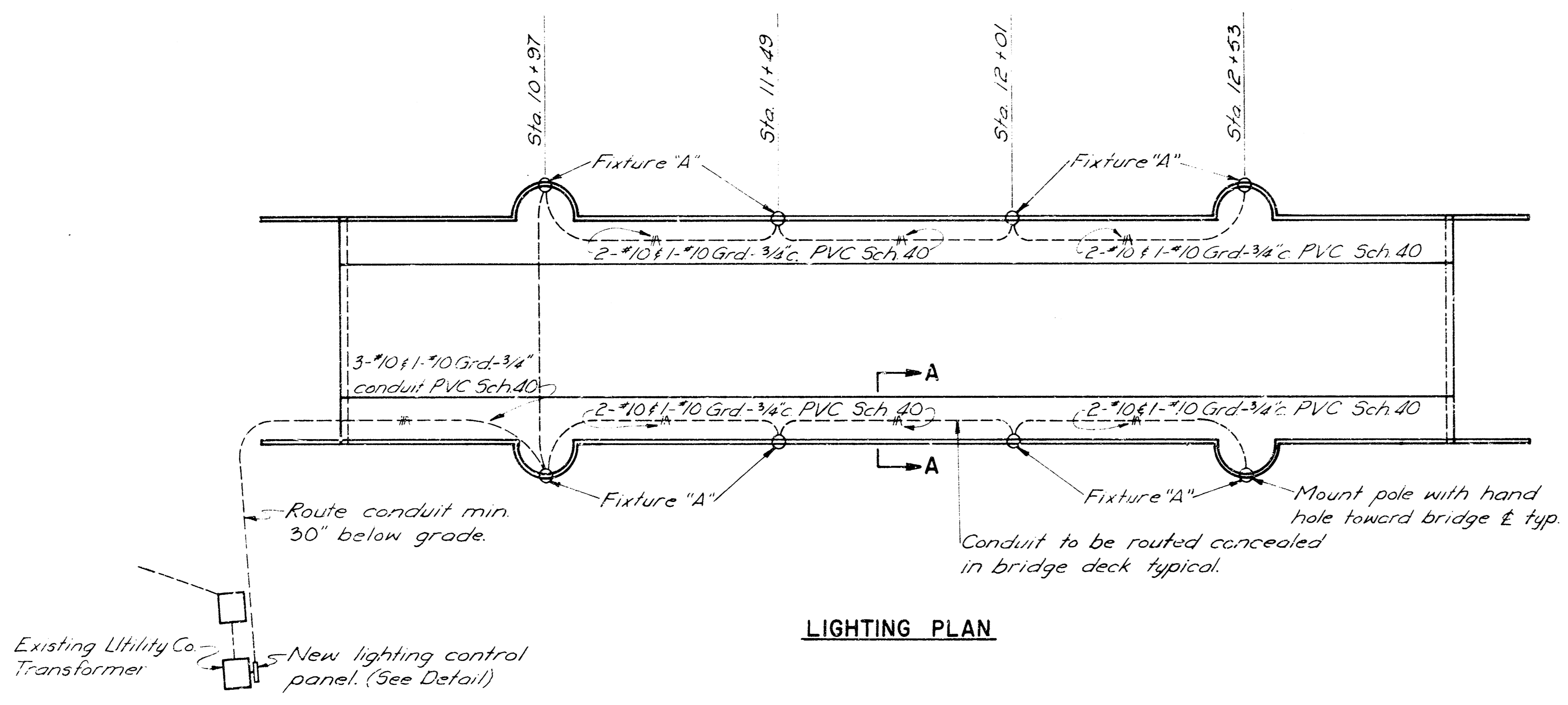


SECTION A-A



NOTE: 6" PVC to be furnished by K&E and installed by the Contractor. Cost of installation shall be included in the Price bid for Class I Concrete.

6" PVC. ELECTRIC CONDUIT DETAILS



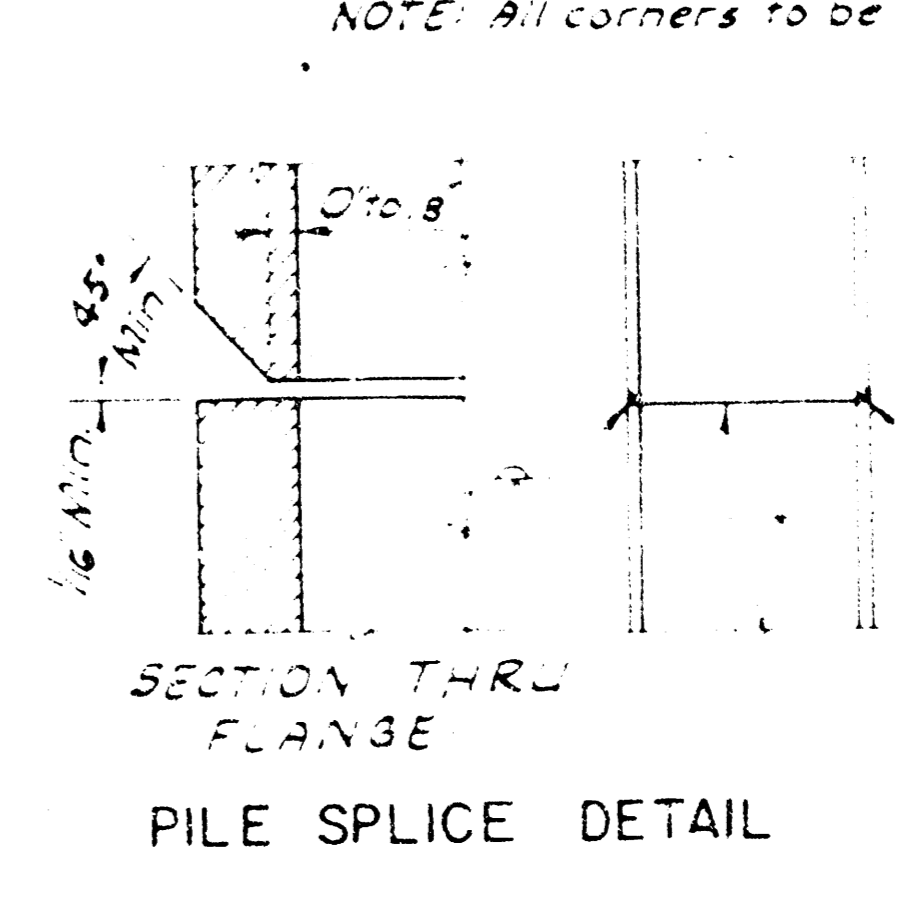
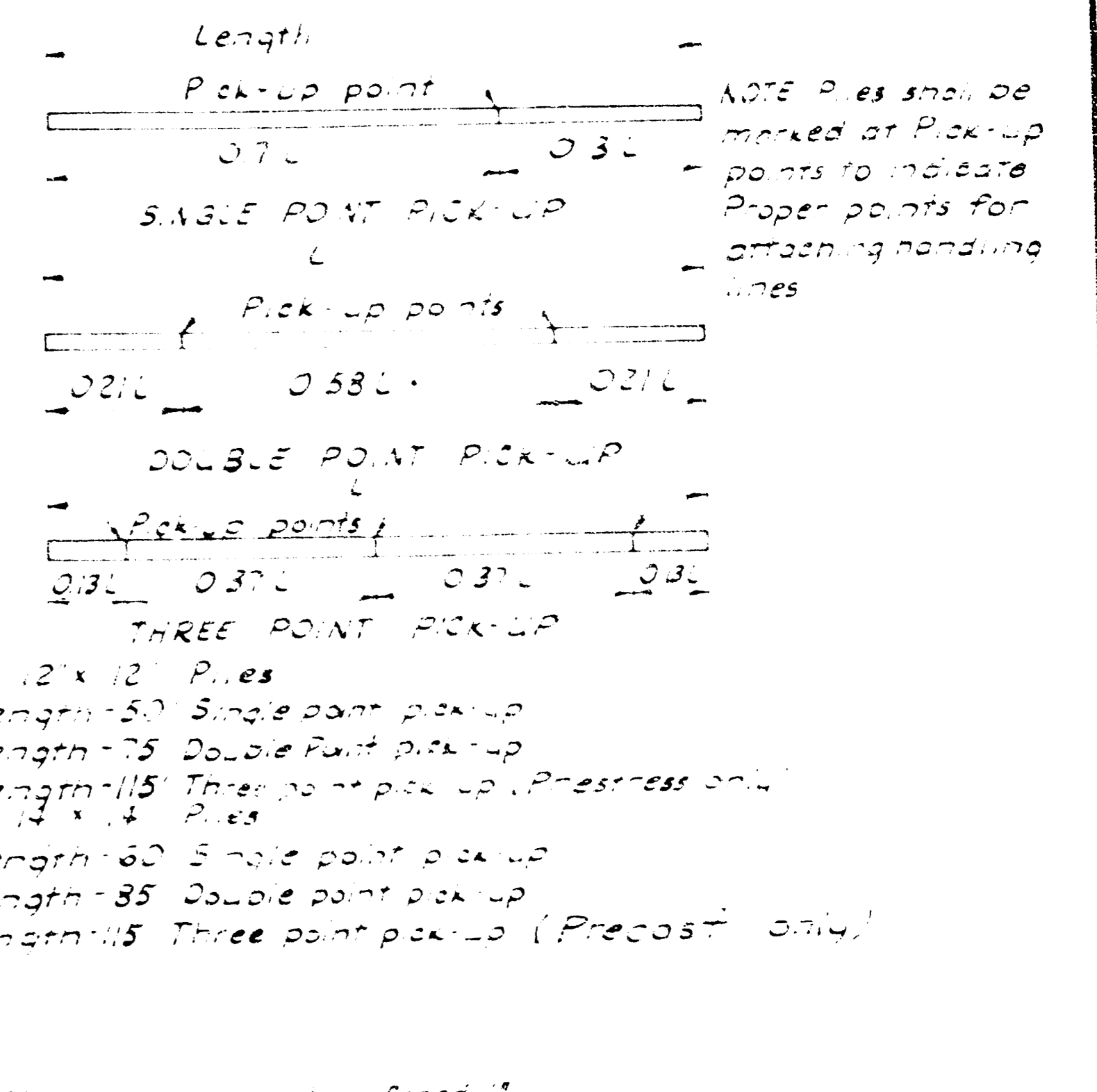
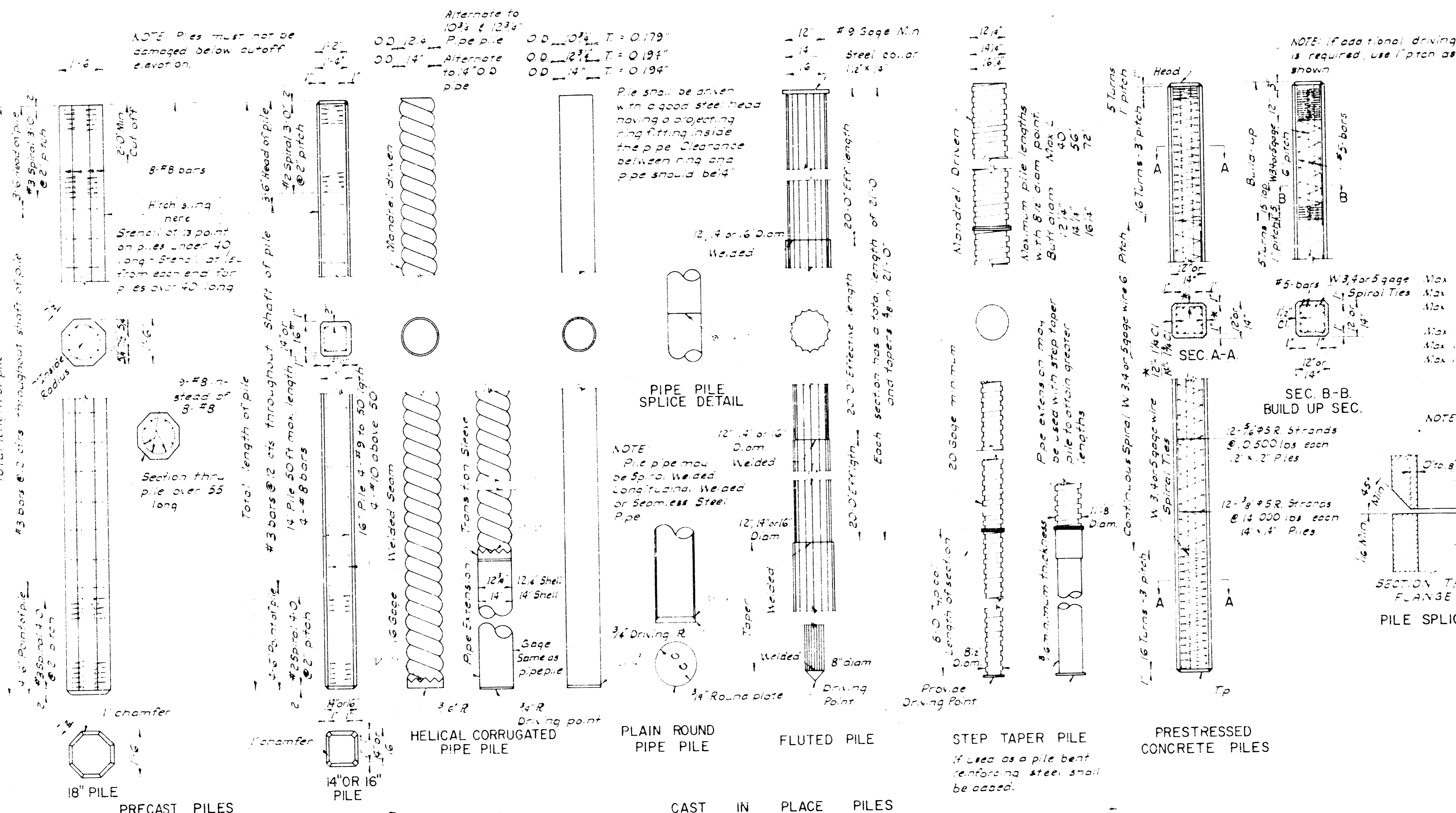
CITY OF WICHITA KANSAS
R.W. LINN, P.E. CITY ENGINEER

LIGHTING PLAN
WOODMAN BRIDGE
OVER THE LITTLE ARKANSAS RIVER
CITY OF WICHITA PROJECT NO. DAKB 576042

PROFESSIONAL ENGINEERING CONSULTANTS, P.A.

ENGINEERS
WICHITA, KANSAS

Designed by: _____
Checked by: _____
Drawn by: _____
Date: _____



FOR INFORMATION ONLY

PILE	STEEL PILES	EQUIVALENT CONCRETE PILES
AP1043	14"	12"
AP2051	16"	14"
AP4113	18"	16"

CONCRETE PILES

PILE	EQUIVALENT CONCRETE PILES
1043	12"
1243	14"
1443	16"

GENERAL NOTES

- Specifications Standard Specifications for State Road and Bridge Construction as currently used by the State Highway Commission of Kansas. (Ed. 1973).
- Concrete: Concrete for cast-in-place shall be Class A concrete, $f_c = 3,000$ psi. See Sub-Article 703.07 (f)(1)(2) Standard Specifications. Concrete for Prestressed shall be Class AHA concrete $f_c = 4,000$ psi. See Article 703.07 (a) Standard Specifications.
- Reinforcement: Reinforcing bars shall be new miller steel ASTM Designation A-615 grade 40 without exception. Hoops and spirals may be either plain or deformed bars. See Sub-Section 1006.01 Standard Specifications.
- Precast Piles: Precast piles shall conform to the requirements of Article 703.07 (a)(1)(b)(c)(d) Standard Specifications.
- Cast-in-Place Shells: Steel shells for Cast-in-Place Concrete Piles shall conform to the requirements of Sub-Section 1006.06 Standard Specifications. All piles driven without mandrel shall be of the minimum gages or thicknesses shown above, except fluted pile use No. 9 gage minimum. Piles driven with mandrel 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 the mandrel is removed. Improperly driven, broken or otherwise defective shells shall be removed and replaced or otherwise corrected to the satisfaction of the Engineer, or the driving of an additional pile at no extra cost.

- The contractor shall maintain on the job at all times prior to and during the filling of the shells, a light suitable for visual inspection of the pile.
- Steel Piles: Steel pile shall conform to requirements of Article 1006.04(e) Standard Specifications.
- Pile Points: Pile points shall conform to the dimensions shown and requirements of Sub-Article 1006.06 (b)(3) Standard Specification. Pile points shall be mill welded to pile.
- Welding: All field welding shall meet the requirements of Sub-Section 703.06 Standard Specifications.
- Point: All point shall comply with Sub-Section 1006.06 Standard Specifications, or as specified on the plans.
- Test Piles: Test Piles shall be driven where called for on the Bridge plans. The test piles located within the limits of the substructure will become a part of the Bridge Pile System.
- Splices: Splices for Steel Piles and Shell Piling shall be in accordance with details shown on this sheet and shall comply with Sub-Section 703.06 Standard Specifications. Precast Concrete Pile splices shall comply with Sub-Article 703.07 (g)(1) Standard Specifications.

- Prestressed Concrete Pile splices shall be made in accordance with the manufacturer's recommendations subject to the approval of the Engineer.
- Driving Formula: Driving Formula shall conform to Sub-Article 703.04 (d)(3) Standard Specifications.
- Annual Test Reports: Steel Piles test reports shall comply with Sub-Article 1006.04 (e)(3) Standard Specifications. Steel Shells test reports for cast-in-place piles shall comply with Article 1006.06 (d) Standard Specifications.
- Measurement and Payment: Measurement for all piles shall comply with Sub-Section 703.08 Standard Specifications. Payment for all piles shall comply with Sub-Section 703.09 Standard Specifications.

CITY OF WICHITA PROJECT NO. DAKB 576042

6-9-73 Revised For 1973 Const Spec. SEE W-16

5-8-76 Revise Error Gen. Note SEE W-16

4-7-86 Add Longitudinal Welding Note SEE W-16

3-7-81 Revise Choice of Pile Note Note SEE W-16

1-27-86 Revise Note on Prestressed Concrete Piles SEE W-16

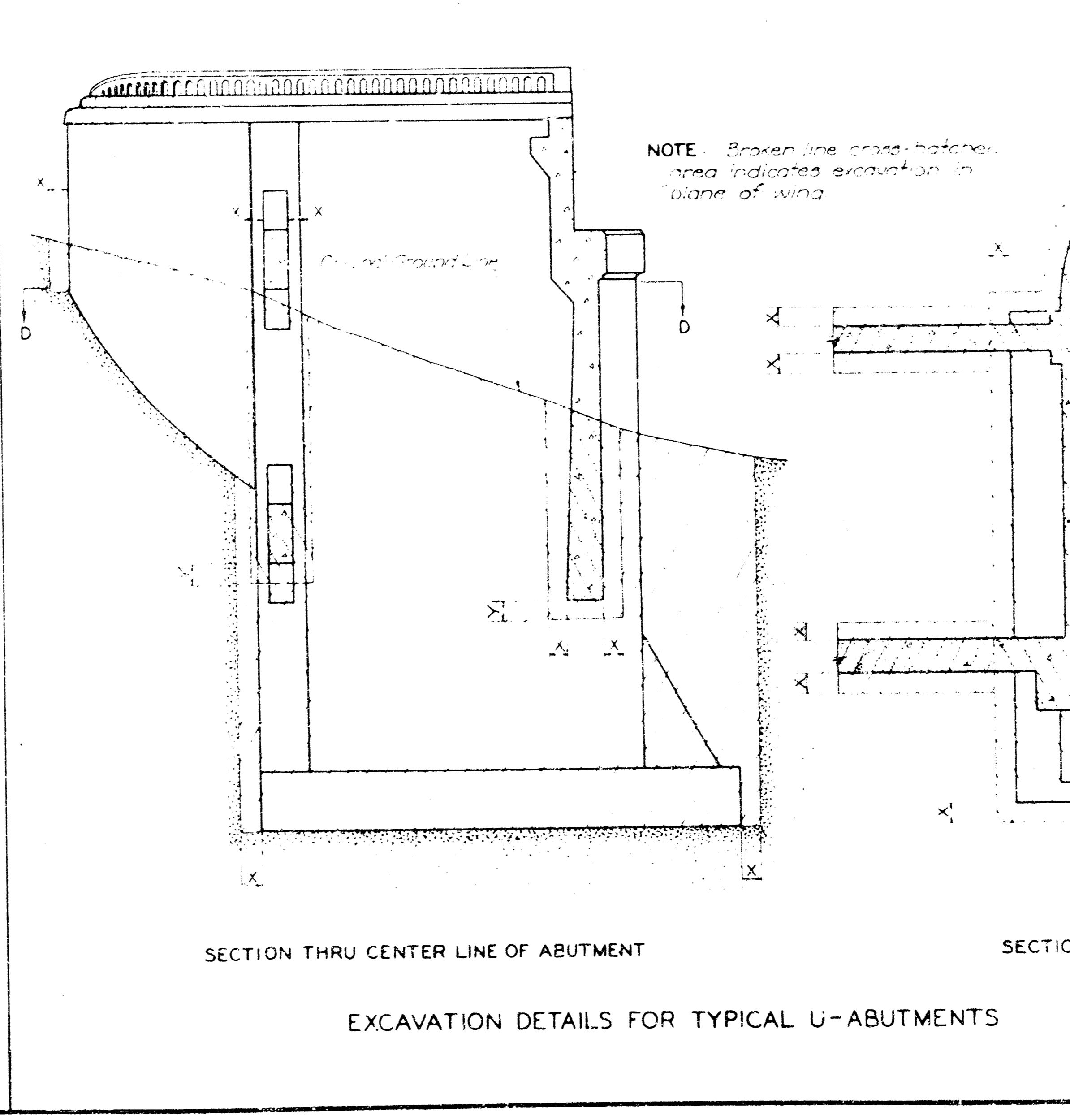
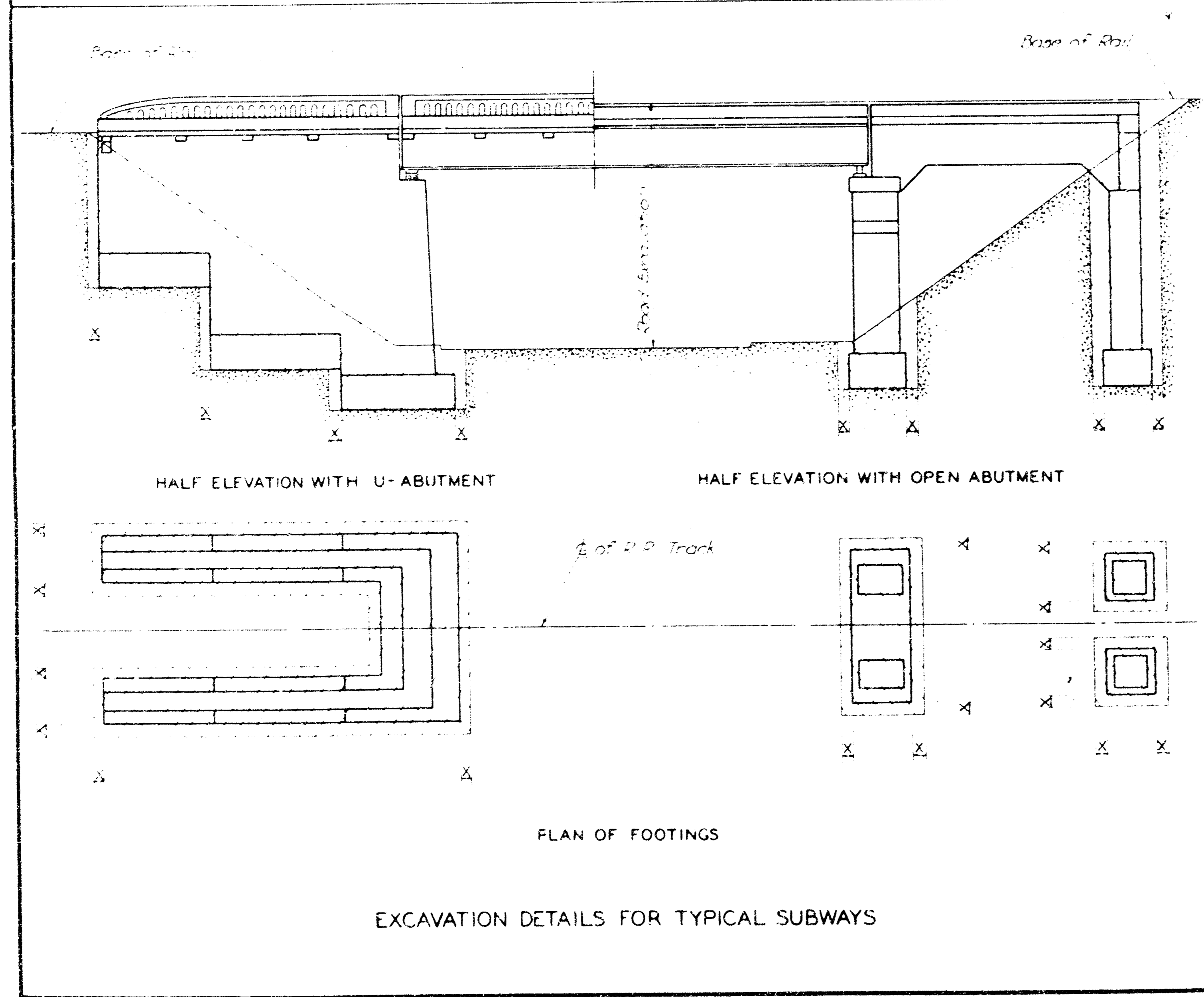
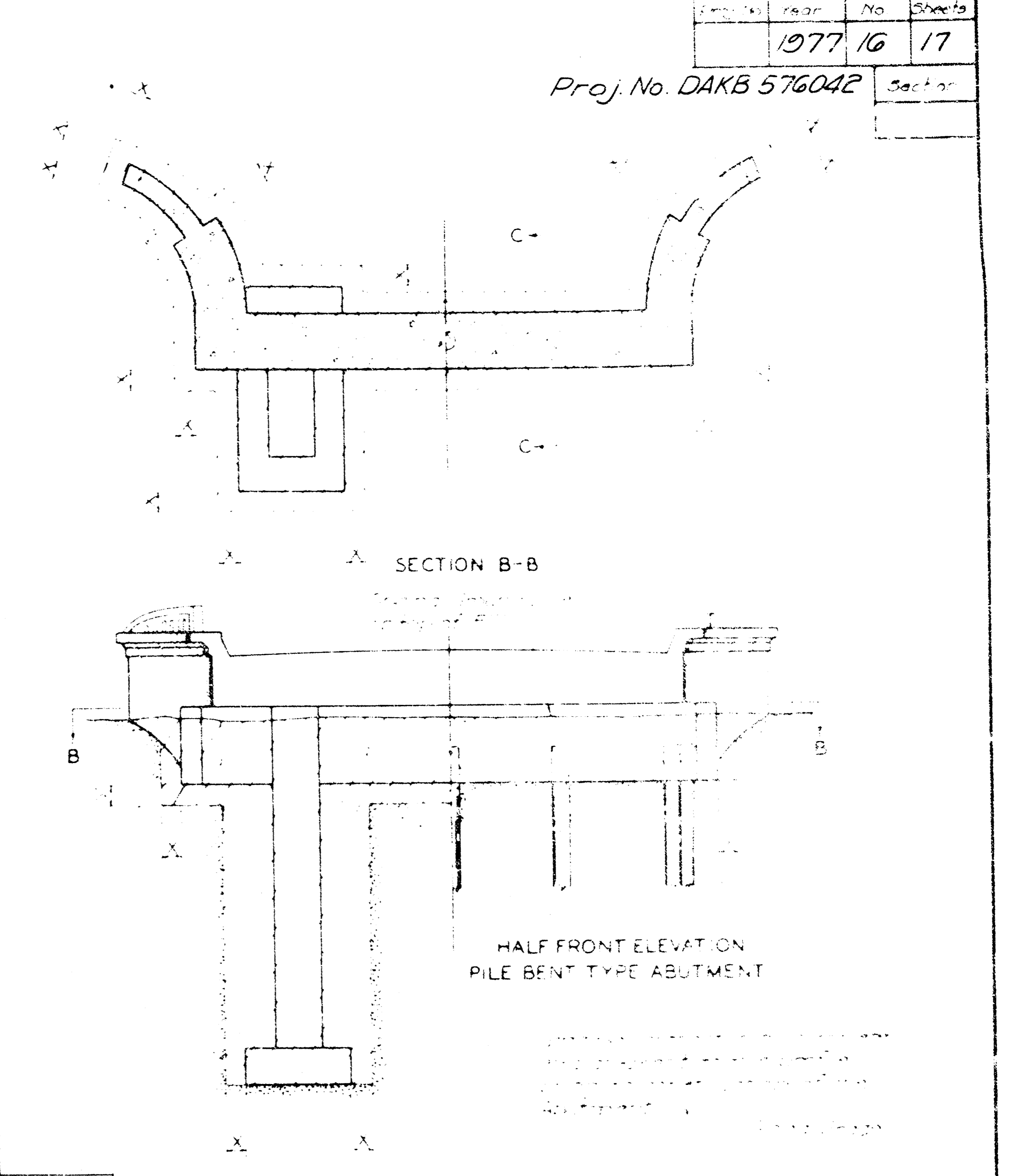
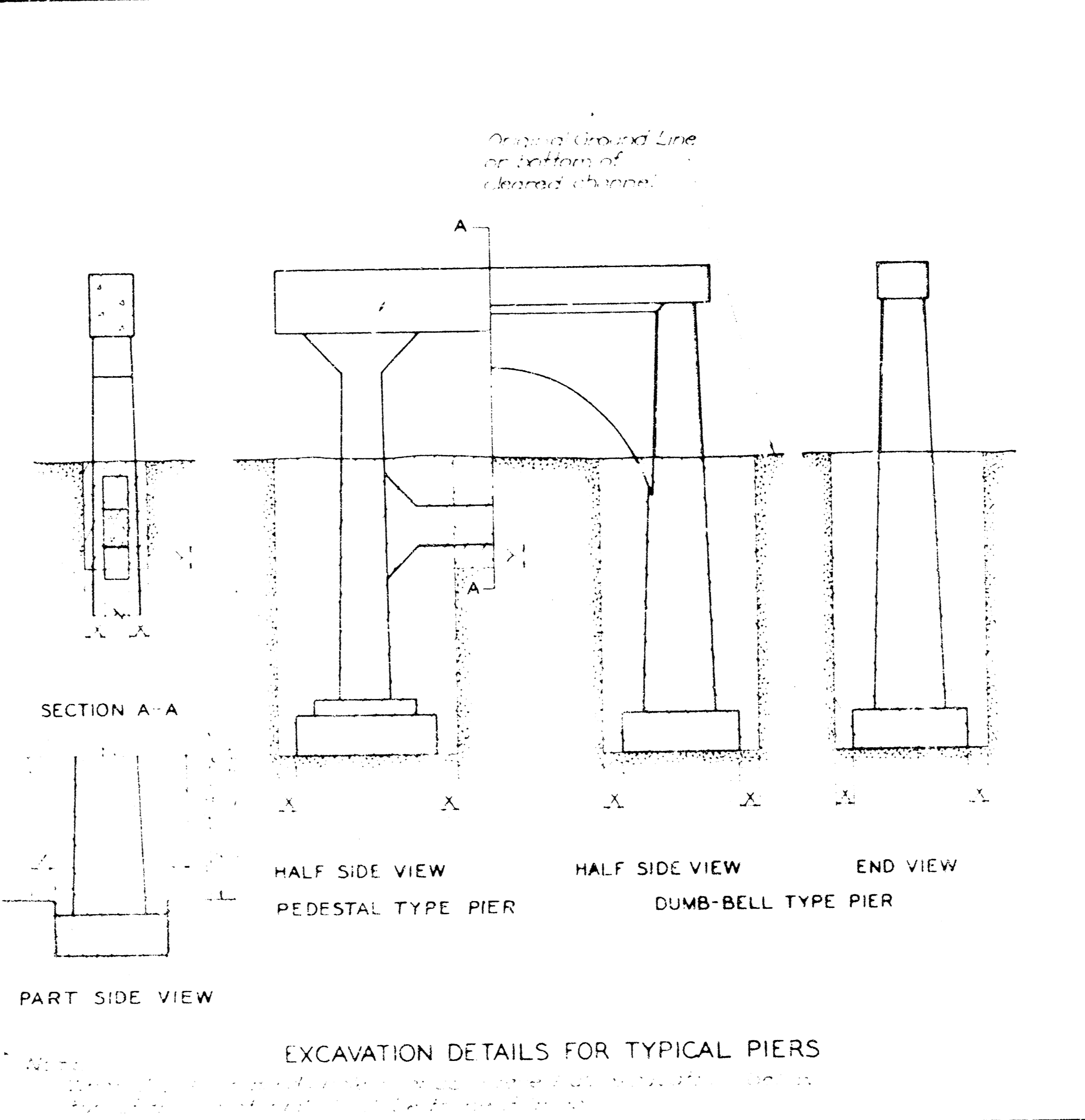
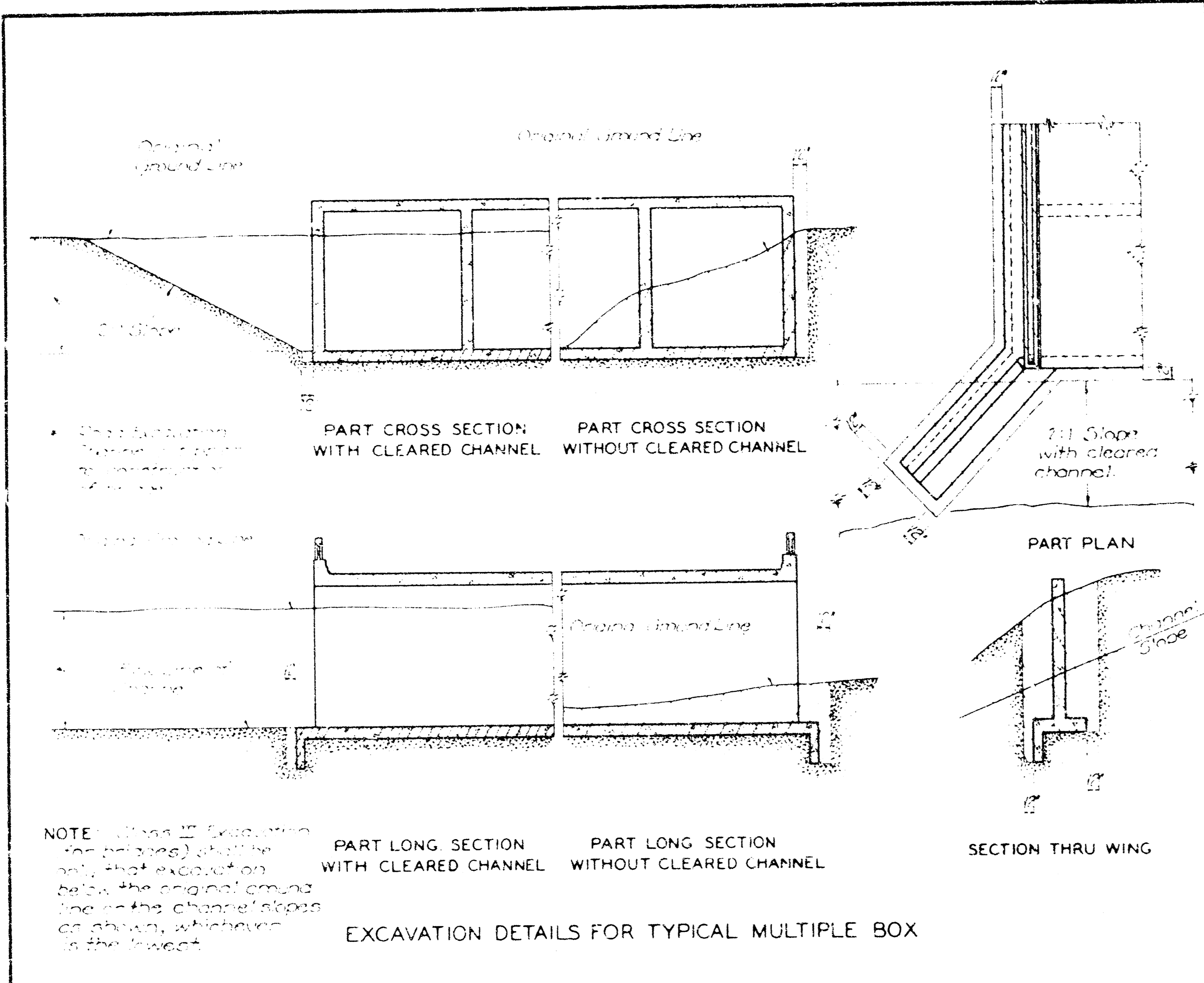
STATE HIGHWAY COMMISSION OF KANSAS

STANDARD PILE DETAILS

STD. NO. 102

Project	Year	Sheet No.	Total Sheets
1977	16	17	

Proj. No. DAKB 576042



HALF FRONT ELEVATION PEDESTAL TYPE ABUTMENT

NOTE: Bridge structure and abutment shall be shown in plan view and elevation. Dimensions shall be shown in plan view and elevation. Dimensions shall be shown in plan view and elevation.

SECTION C-C

EXCAVATION DETAILS FOR TYPICAL ABUTMENTS

NOTE: Excavation shall be shown in plan view and elevation. Dimensions shall be shown in plan view and elevation. Dimensions shall be shown in plan view and elevation.

CITY OF WICHITA PROJECT NO. DAKB 576042

NO.	DATE	REVISIONS	BY	APP'D

STATE HIGHWAY COMMISSION OF KANSAS

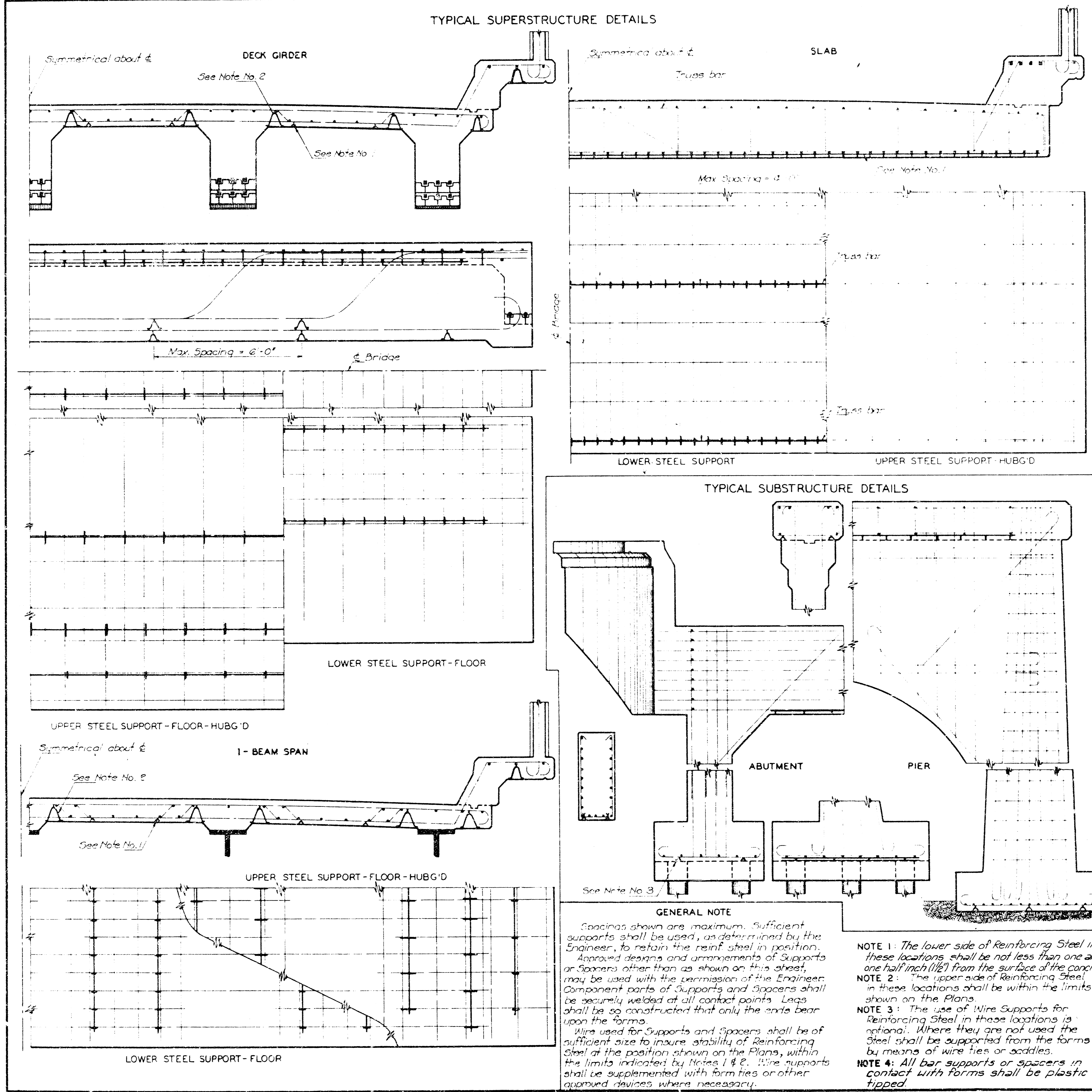
BRIDGE EXCAVATION

STD. NO. 100 SCALE: 1" = 10'-0" (VERTICAL) 1" = 20'-0" (HORIZONTAL)

DESIGNED BY: DATE: 11/27/77 DRAWN BY: TRACED BY: CHECKED BY: APPROVED BY: DATE: 12/1/77

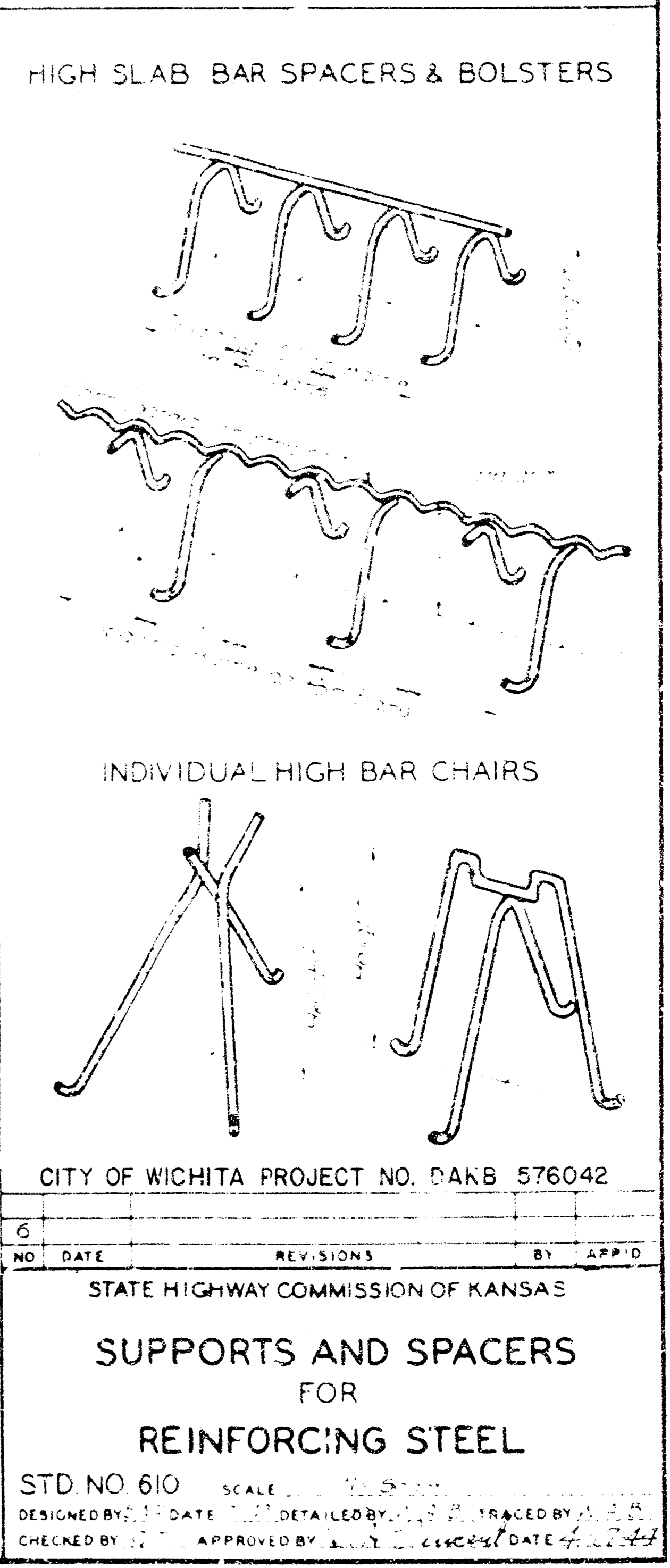
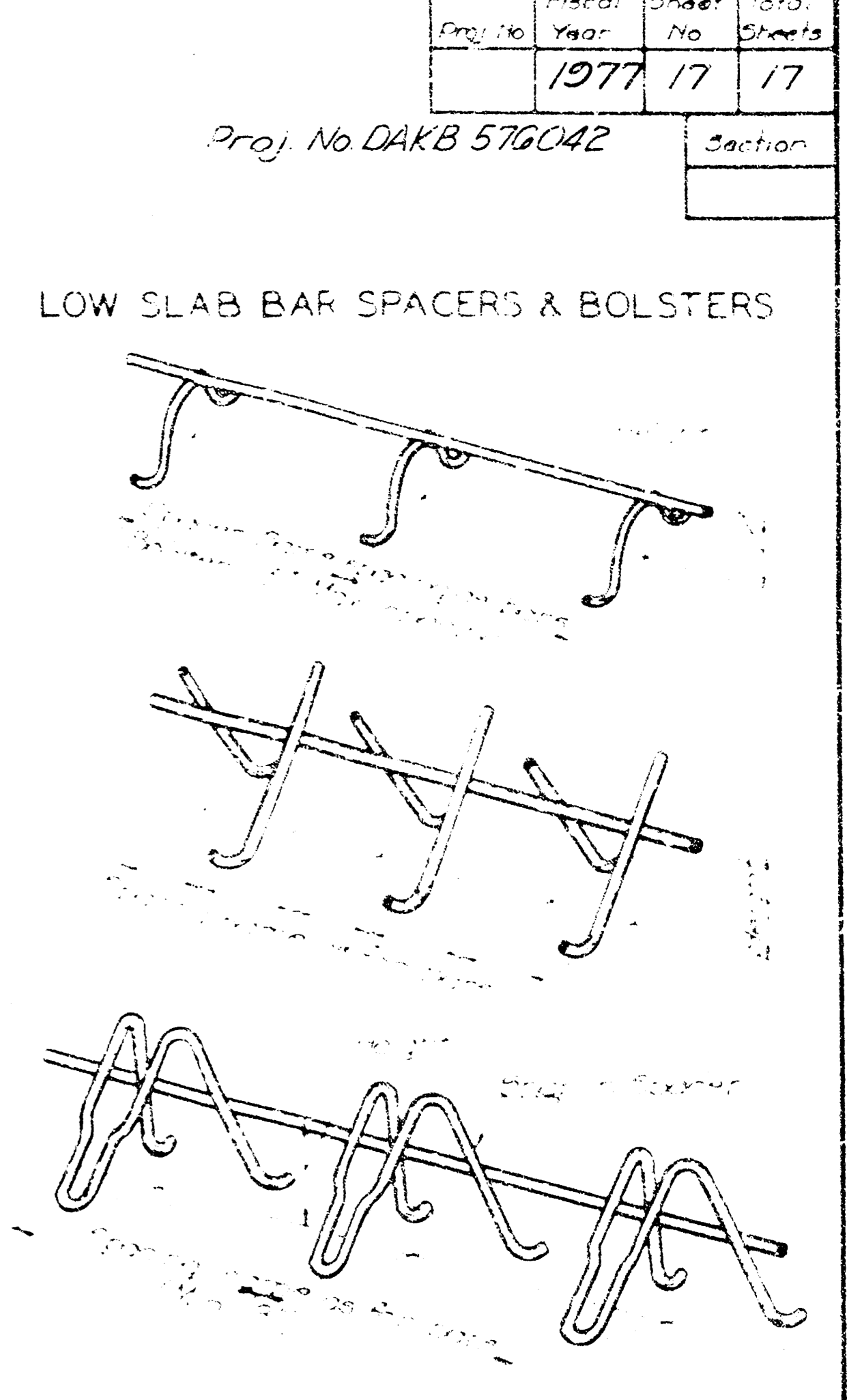
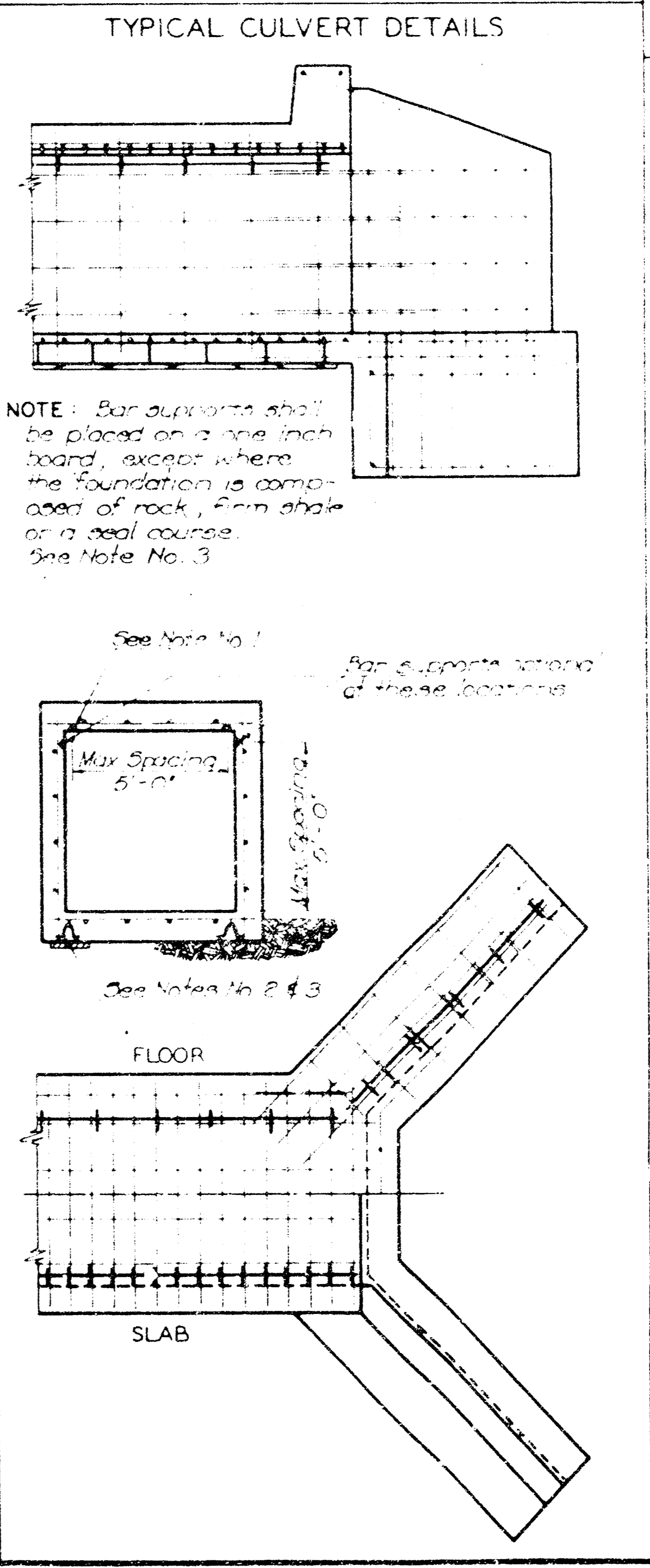
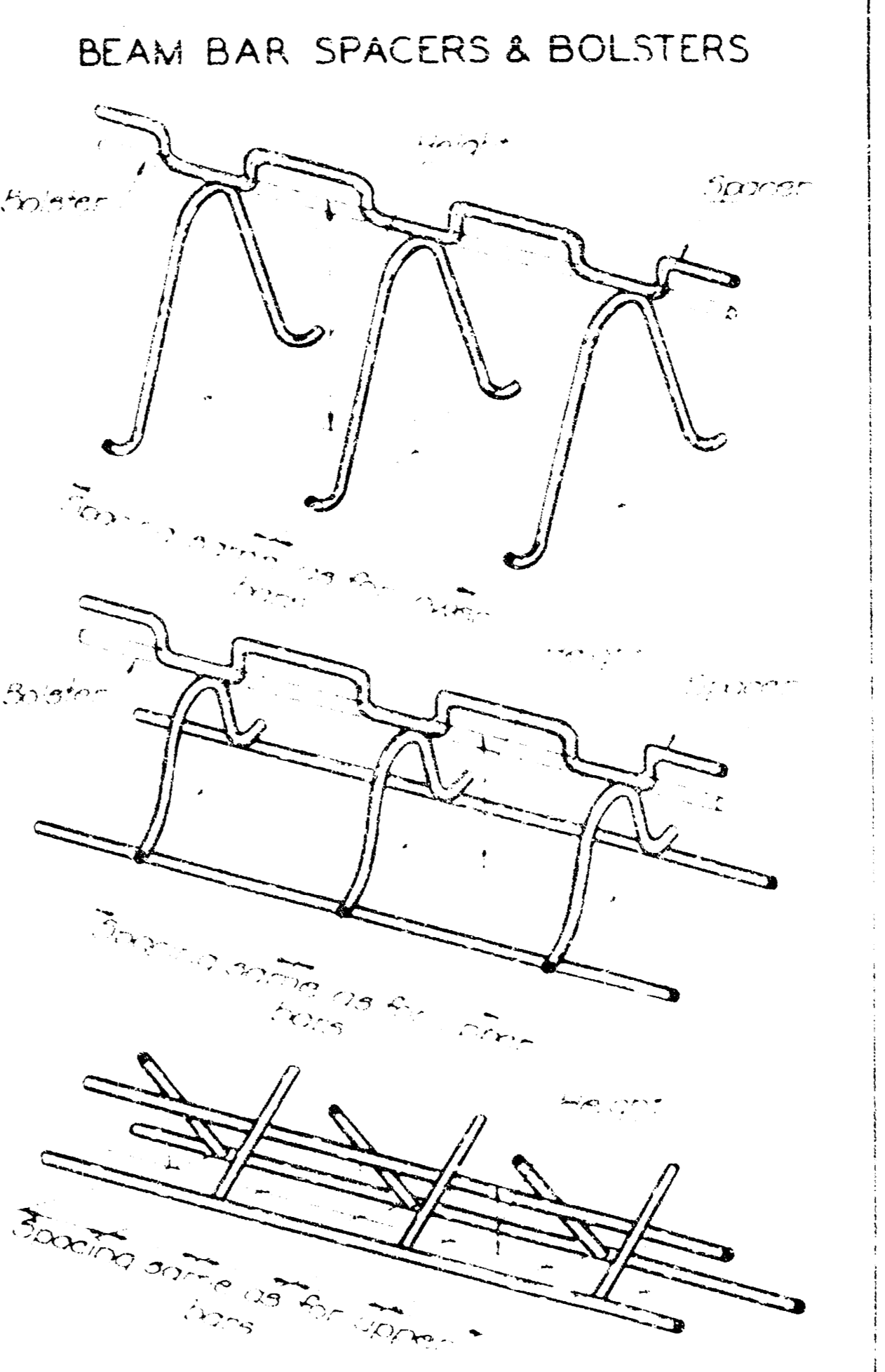
Proj. No.	Fiscal Year	Sheet No.	Total Sheets
	1977	17	17

Proj. No. DAKB 576042 Section



GENERAL NOTE
 Spacings shown are maximum. Sufficient supports shall be used, as determined by the Engineer, to retain the reinf. steel in position. Approved designs and arrangements of Supports or Spacers other than as shown on this sheet, may be used with the permission of the Engineer. Component parts of Supports and Spacers shall be securely welded at all contact points. Legs shall be so constructed that only the ends bear upon the forms.
 Wire used for Supports and Spacers shall be of sufficient size to insure stability of Reinforcing Steel at the position shown on the Plans, within the limits indicated by Notes 1 & 2. Wire supports shall be supplemented with form ties or other approved devices where necessary.

NOTE 1: The lower side of Reinforcing Steel in these locations shall be not less than one and one half inch (1 1/2") from the surface of the concrete.
NOTE 2: The upper side of Reinforcing Steel in these locations shall be within the limits shown on the Plans.
NOTE 3: The use of Wire Supports for Reinforcing Steel in these locations is optional. Where they are not used the Steel shall be supported from the forms by means of wire ties or saddles.
NOTE 4: All bar supports or spacers in contact with forms shall be plastic tipped.



CITY OF WICHITA PROJECT NO. DAKB 576042

NO.	DATE	REVISIONS	BY	APP'D
6				

STATE HIGHWAY COMMISSION OF KANSAS

SUPPORTS AND SPACERS FOR REINFORCING STEEL

STD NO 610 SCALE: 1/8" = 1'-0"

DESIGNED BY: DATE: DETAILED BY: CHECKED BY: APPROVED BY: DATE: