

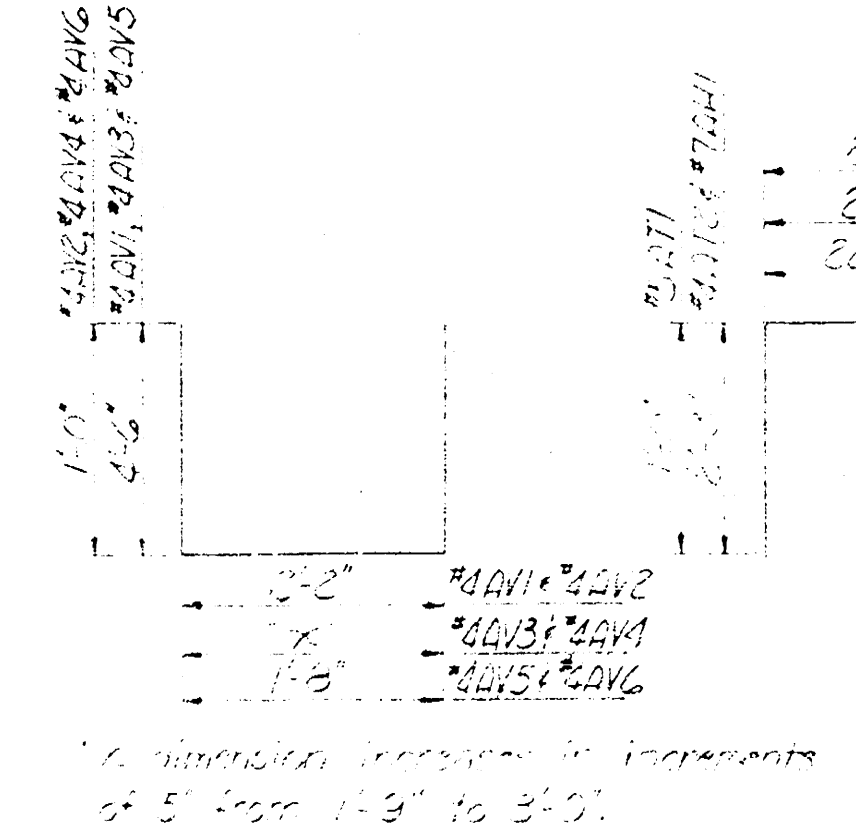
NOTE
Handrail Details
on Sheet 6.

See Sheet 5 for Scaffolding
Joint Details.

After concreting is complete,
brick up these openings, using
common bricks in cement mortar;
this work to be subsidiary
to Class A Concrete bid item.

Colocate wall board
or approved equivalent
to be removed
after sidewalk is
completed.

1. Vert. Treated Timber Piles
2. Patterned Treated Timber Piles



* See bar bending diagrams

ABUTMENT BAR LIST AND SUMMARY OF QUANTITIES													
Mark	AW1	AW2	AW3	AW4	AW5	AW6	AW7	AW8	AW9	AW10	AW11	AW12	AW13
No. Prod.	10	18	8	8	34	4	12	4	10	12	12	44	64
Size	#7	#7	#5	#5	#4	#4	#5	#4	#6	#6	#5	#4	#4
Length	20'-9"	22'-6"	17'-6"	5'-2"	4'-9"	16'-9"	5'-9"	5'-0"	9'-9"	8'-11"	7'-3"	11'-2"	4'-2"
Shape													

Class A Concrete 302 Cu. Yds.
Concrete Handrail 1533 Lin. Ft.
Reinforcing Steel 3120 Lbs.
Treated Timber Piles 234 Lin. Ft.
Metal Pile Points 9 Each

CITY OF WICHITA, KANSAS
B. E. SMITH, CITY ENGINEER

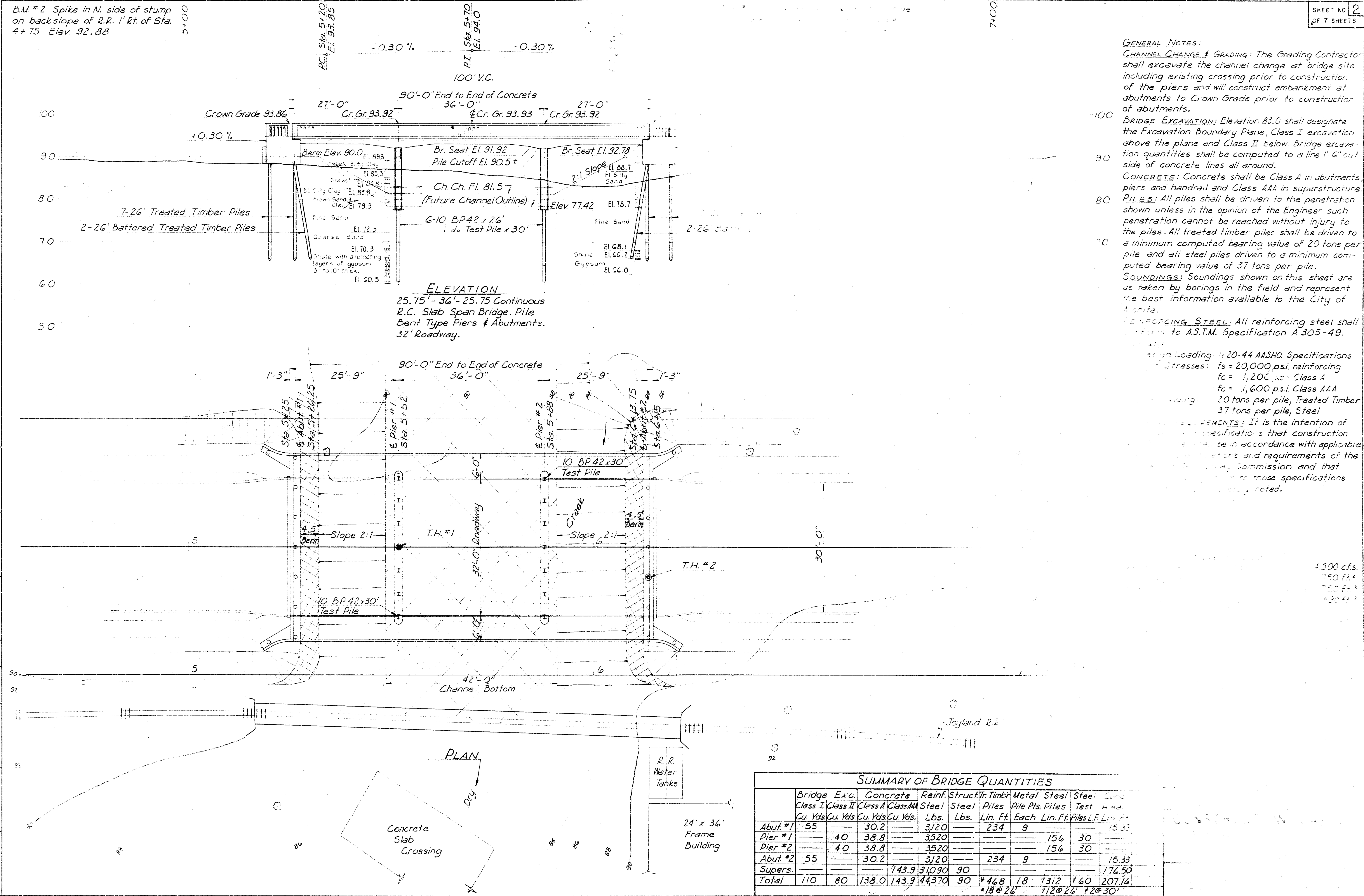
ABUTMENT DETAILS
WASSALL STREET BRIDGE

OVER
DRY CREEK

R. S. DELAMATER
CONSULTING ENGINEER
WICHITA, KANSAS

DATE March, 1954
SCALE 3/8" = 1'-0"
8" = 1'-0"

DWG. NO. 79-D-3

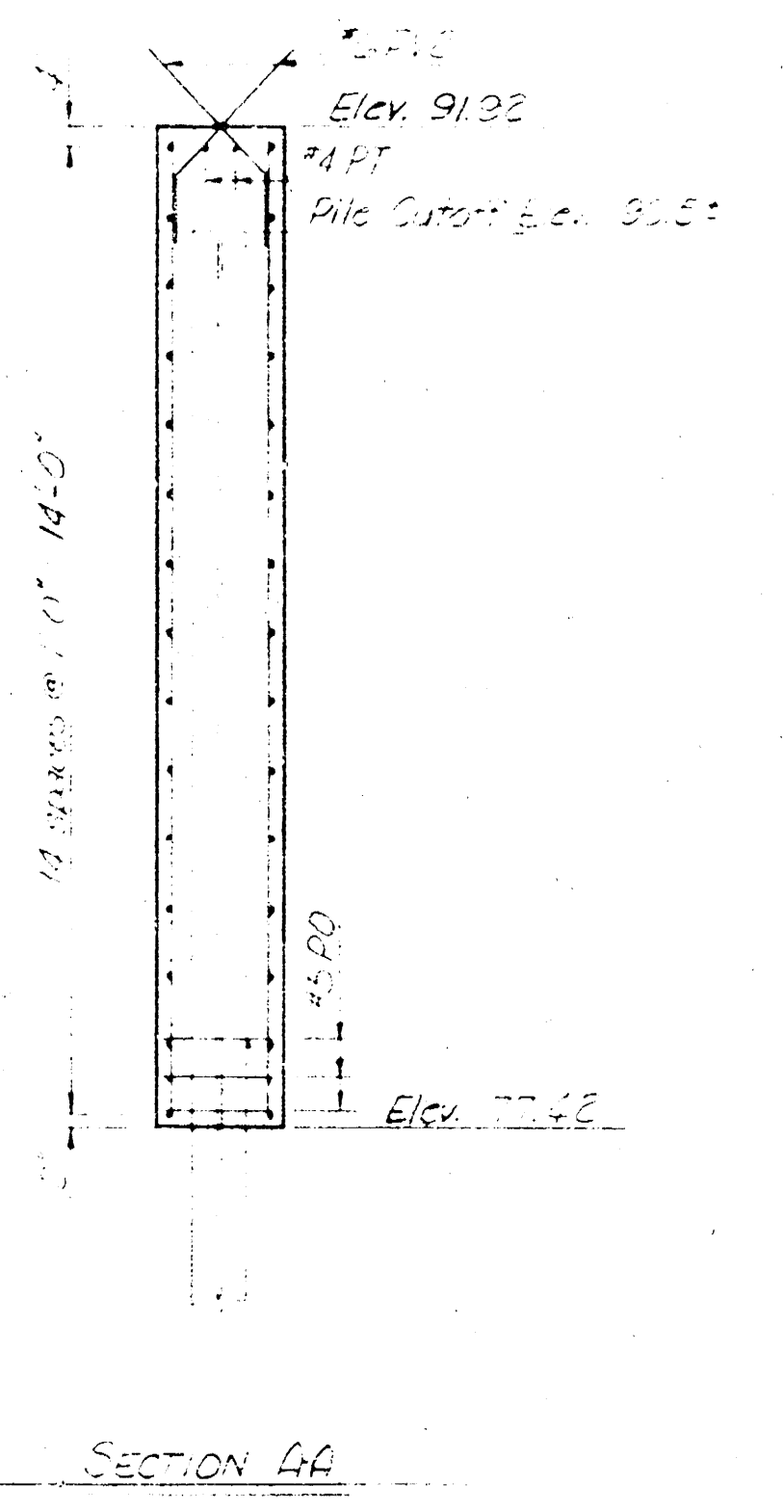
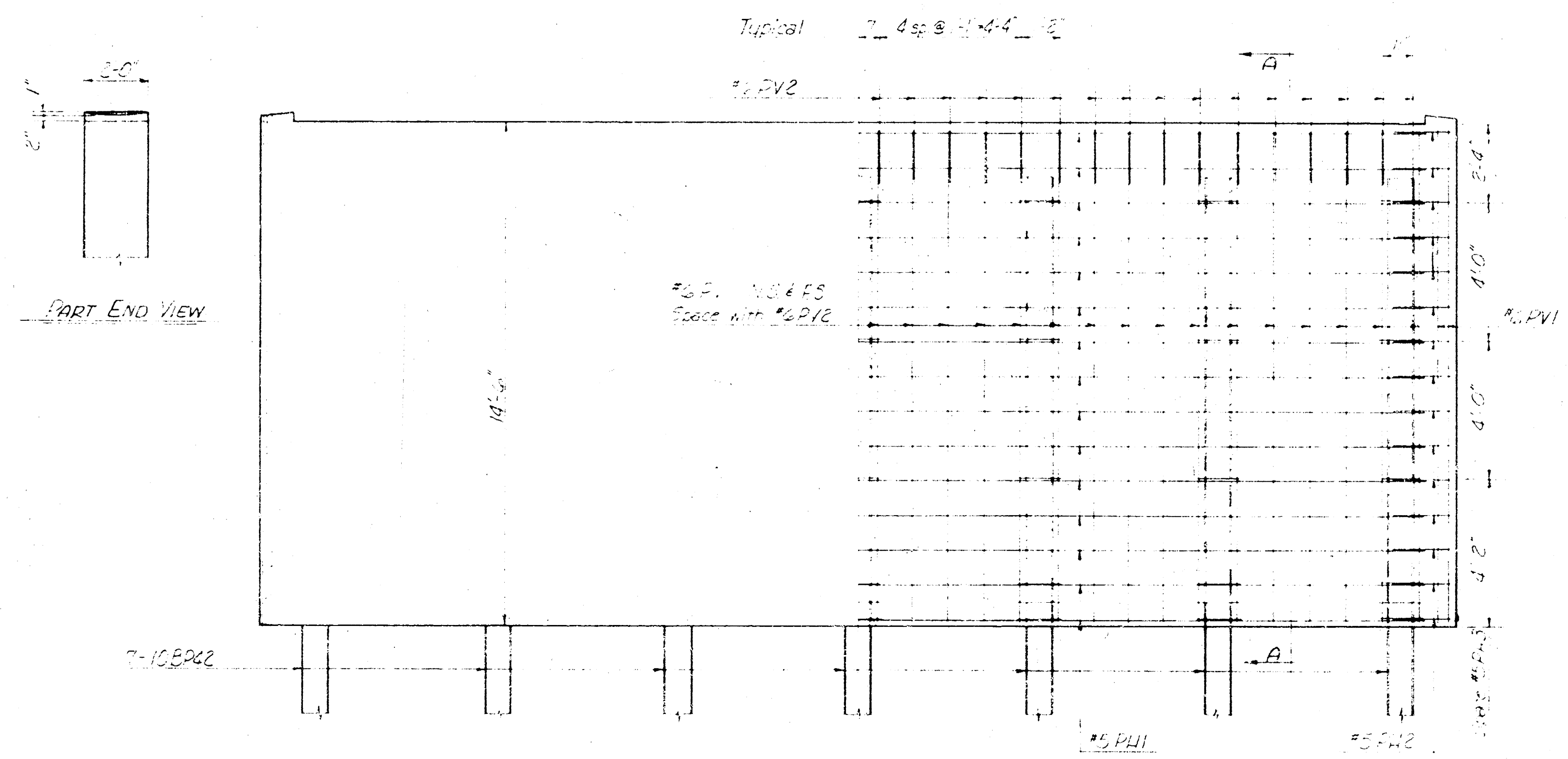
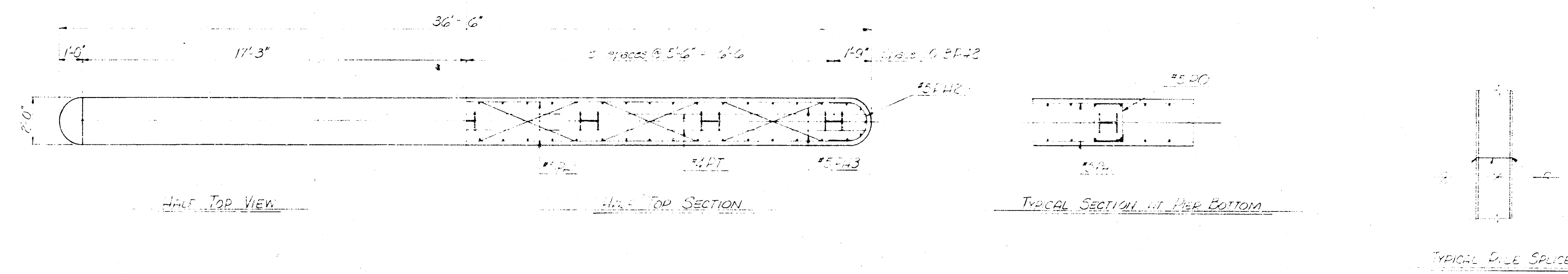


SHEET NO. 2
OF 7 SHEETS

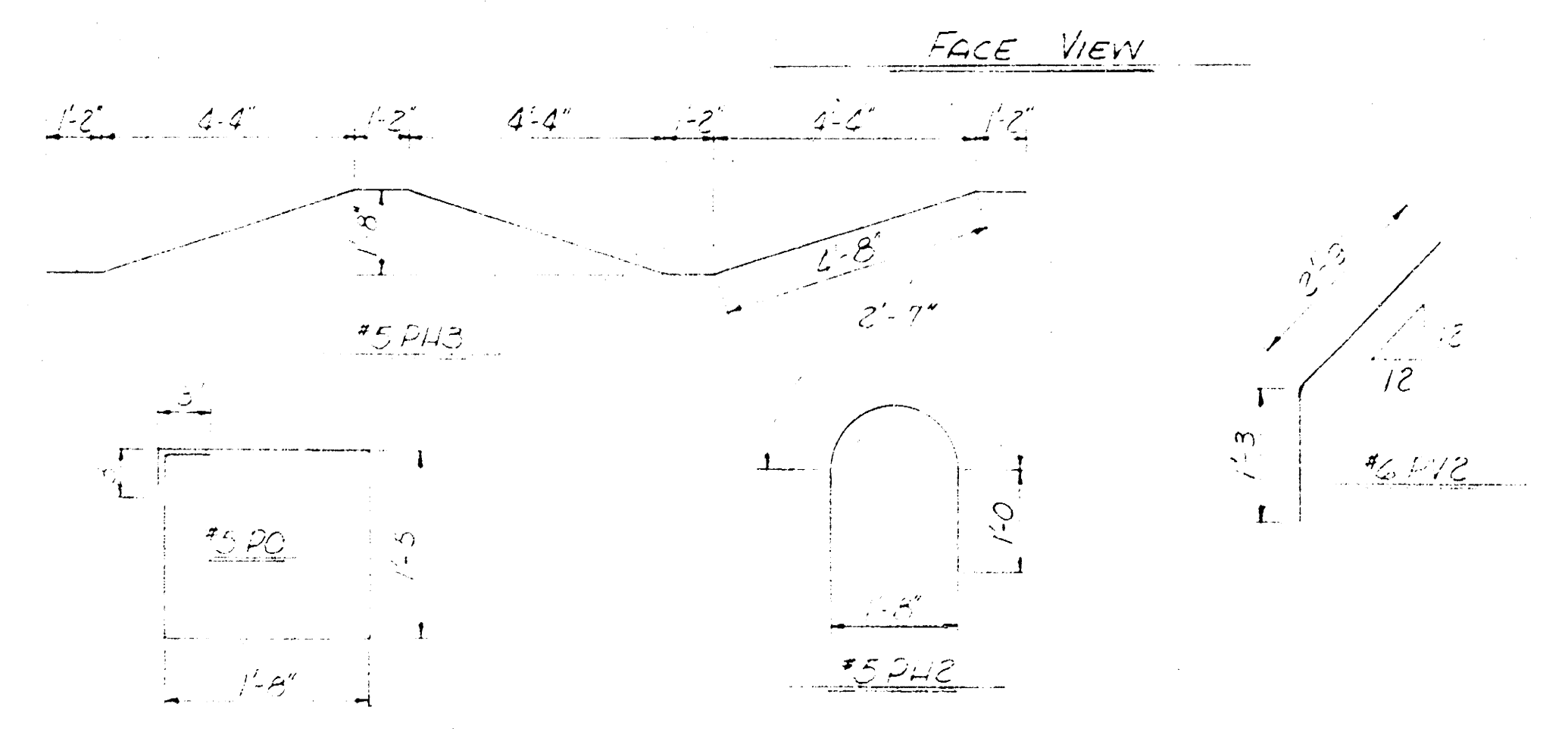
GENERAL NOTES:
CHANNEL CHANGE & GRADING: The Grading Contractor shall excavate the channel change at bridge site including existing crossing prior to construction of the piers and will construct embankment at abutments to Crown Grade prior to construction of abutments.
BRIDGE EXCAVATION: Elevation 83.0 shall designate the Excavation Boundary Plane, Class I excavation above the plane and Class II below. Bridge excavation quantities shall be computed to a line 1'-6" outside of concrete lines all around.
CONCRETE: Concrete shall be Class A in abutments, piers and handrail and Class AAA in superstructure.
PILES: All piles shall be driven to the penetration shown unless in the opinion of the Engineer such penetration cannot be reached without injury to the piles. All treated timber piles shall be driven to a minimum computed bearing value of 20 tons per pile and all steel piles driven to a minimum computed bearing value of 37 tons per pile.
SOUNDINGS: Soundings shown on this sheet are as taken by borings in the field and represent the best information available to the City of Atlanta.
REINFORCING STEEL: All reinforcing steel shall conform to A.S.T.M. Specification A 305-49.
DESIGN LOADS: Design Loading: AASHO Specifications
 Stresses: $f_s = 20,000$ psi. reinforcing
 $f_c = 1,200$ psi Class A
 $f_c = 1,600$ psi Class AAA
 Pile bearing: 20 tons per pile, Treated Timber
 37 tons per pile, Steel
REMARKS: It is the intention of the specifications that construction shall be in accordance with applicable specifications and requirements of the Georgia State Highway Commission and that the contractor shall conform to these specifications as noted.

SUMMARY OF BRIDGE QUANTITIES

	Bridge Exc.		Concrete		Reinf. Steel		Struct. Timber		Metal Steel		Steel Piles		Steel Test Piles	
	Class I	Class II	Class A	Class AAA	Steel	Steel	Lbs.	Lin. Ft.	Each	Lin. Ft.	Piles	Lin. Ft.	Piles	Lin. Ft.
Abut #1	55		30.2		3120			234	9					15.33
Pier #1		40	38.8		3520					156	30			
Pier #2		40	38.8		3520					156	30			
Abut #2	55		30.2		3120			234	9					15.33
Supers.					743.9	31090	90							176.50
Total	110	80	138.0		143.9	44370	90	468	18	312	160			207.16



NOTES:
 1. Class A concrete shall be used throughout.
 2. Splice bars shall be used at all corners & unless otherwise indicated.
 3. Dimensions shown relative to reinforcing steel placement are to E.O.P. bars unless otherwise noted. All dimensions shown in the landing diagrams are out to out of bars.
 Elev. Control: 77.48
 Pile Capacity: 37 tons per pile



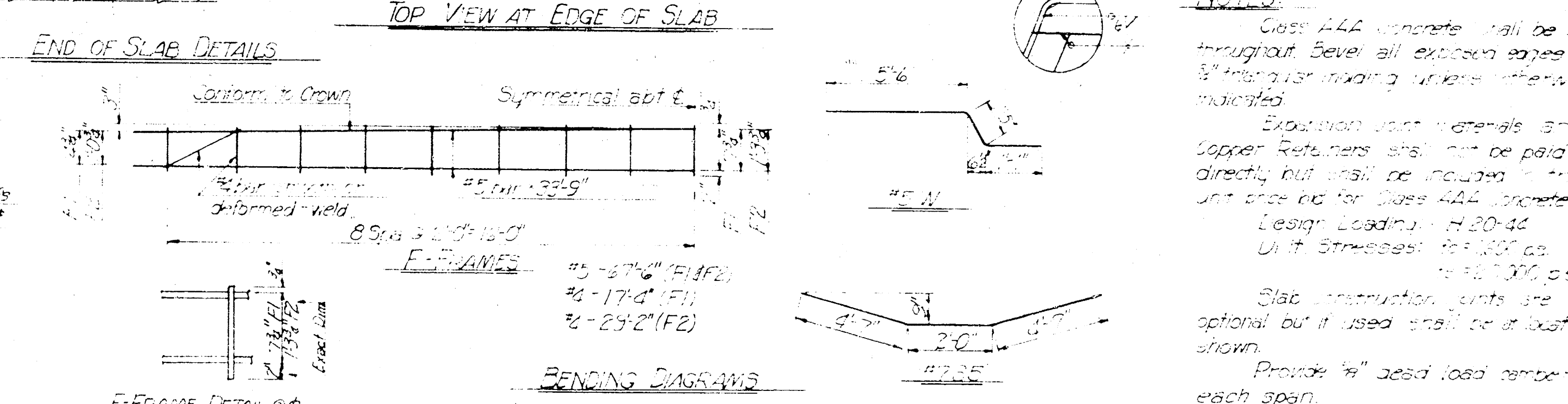
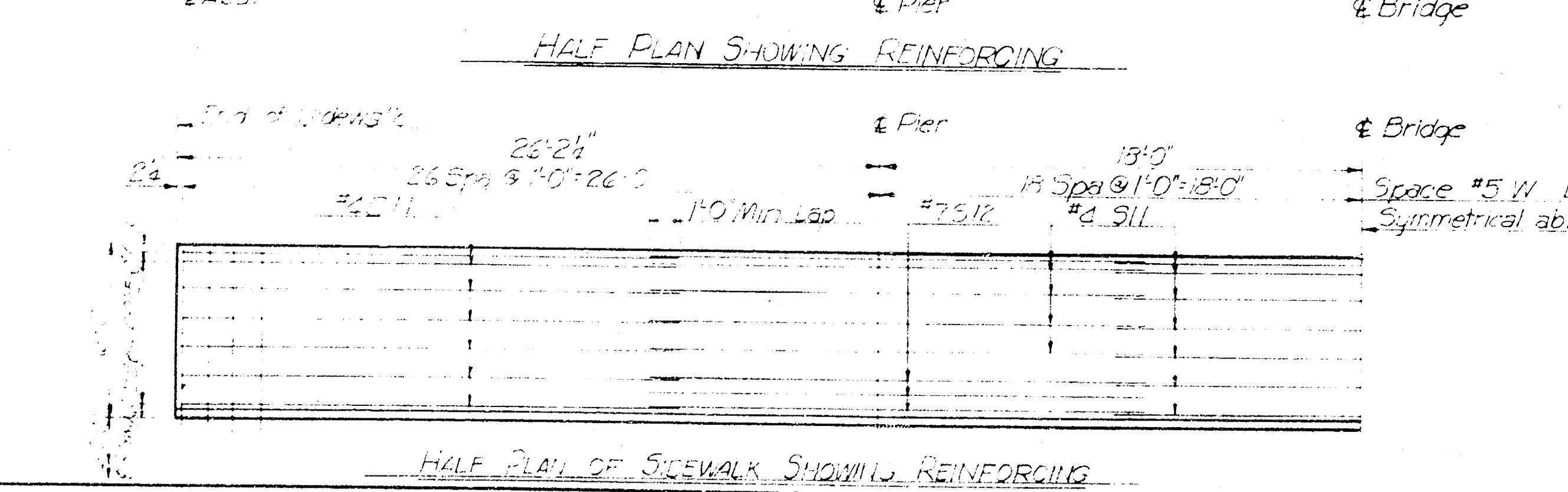
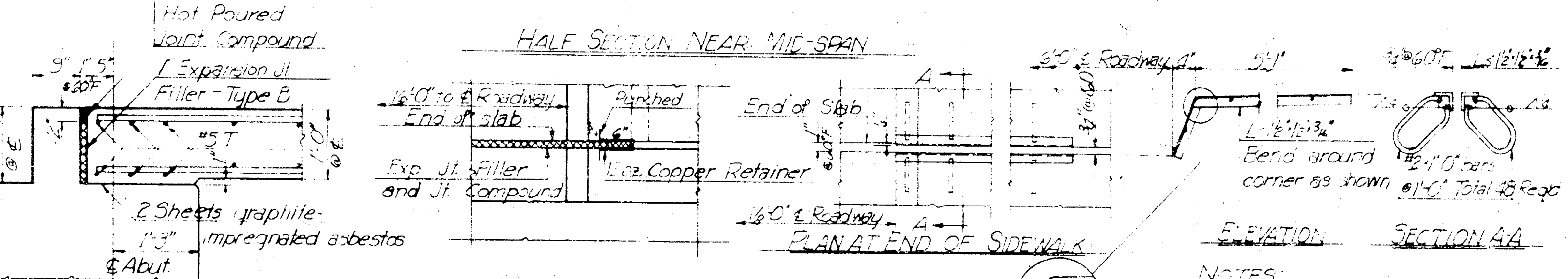
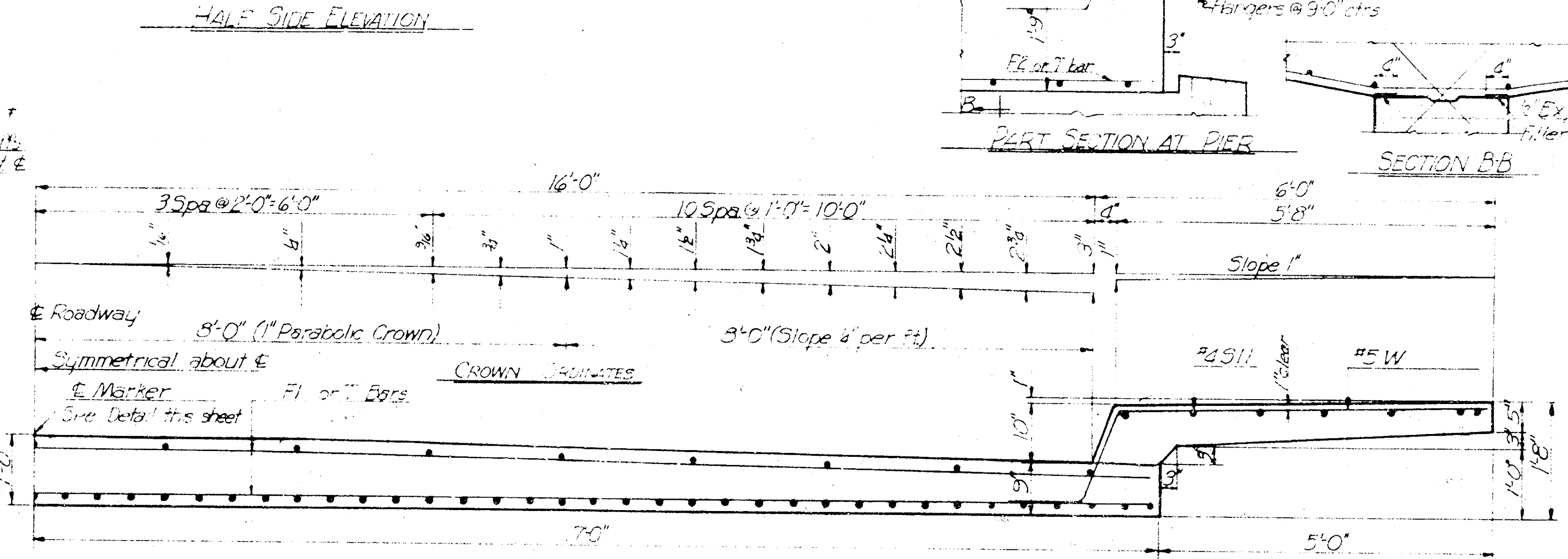
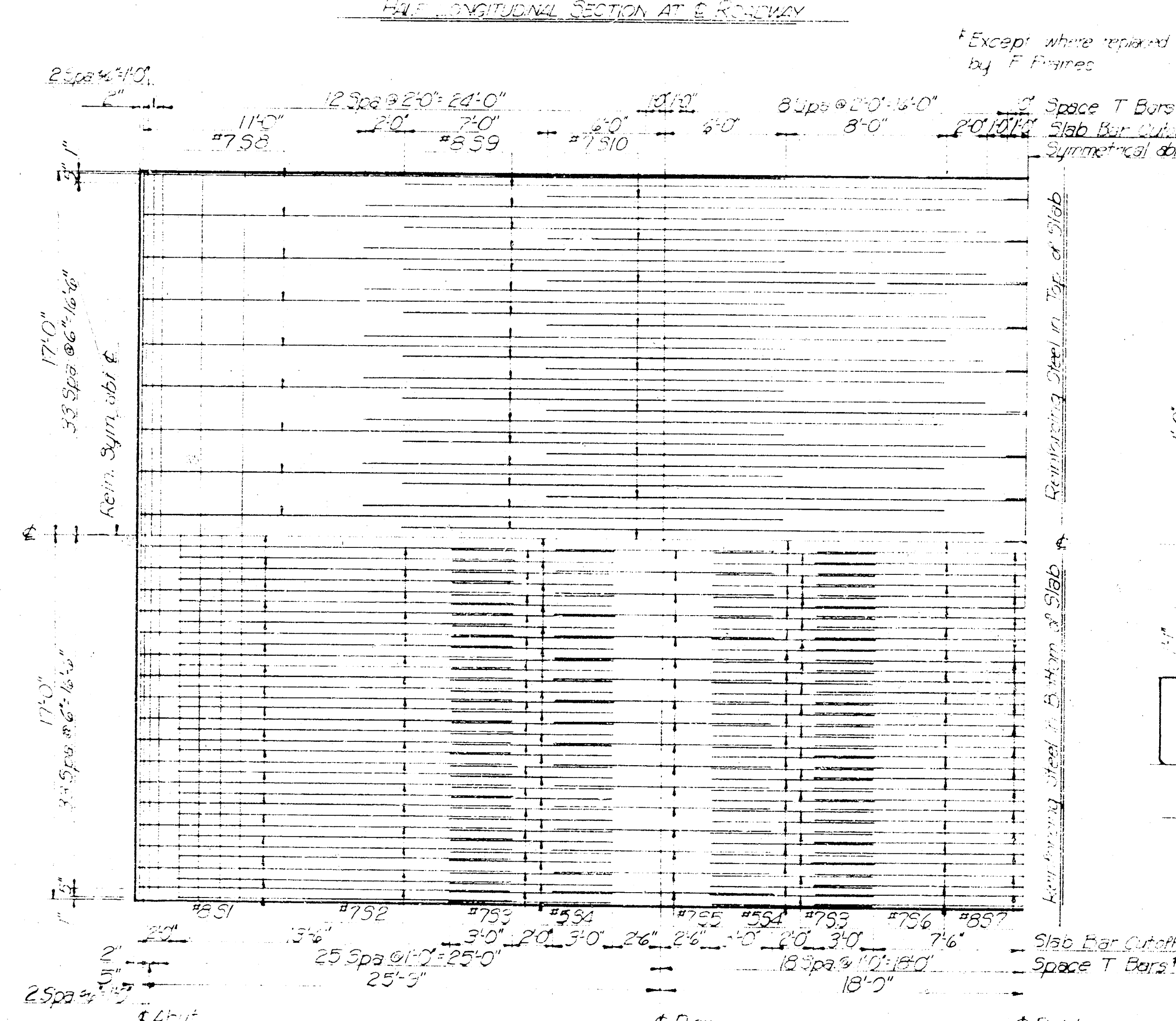
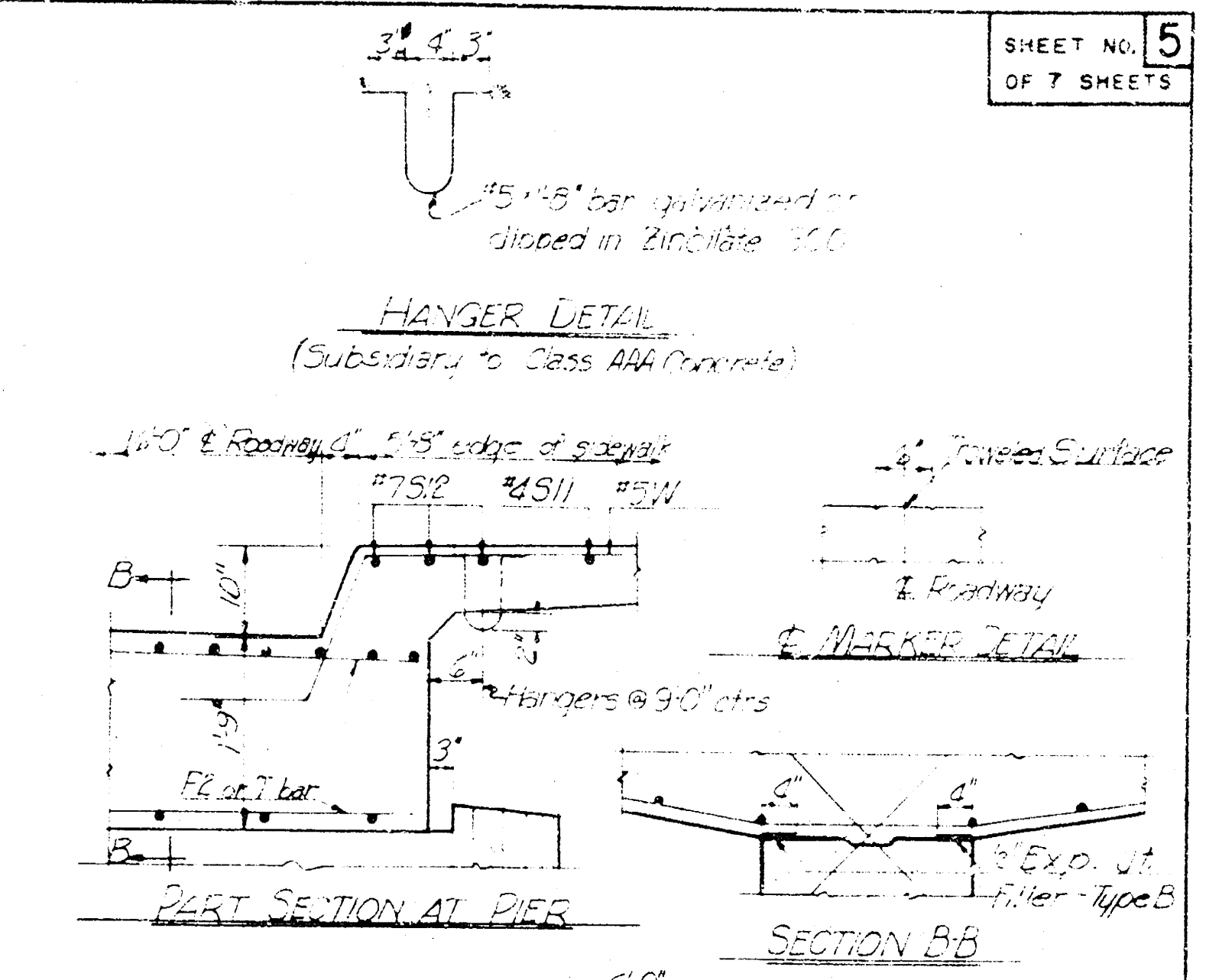
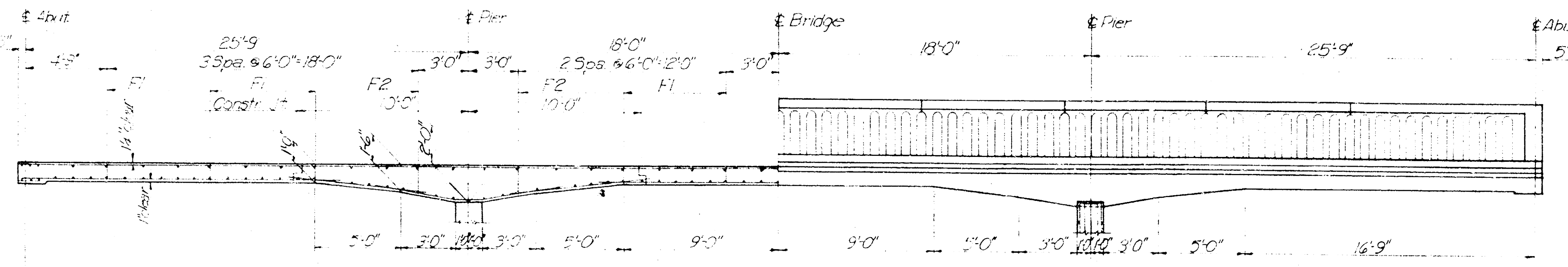
SUMMARY OF PIER QUANTITIES

Mark	Qty	PIE	PIB	IV	2/2	2/1	2/2
No. Piles	30	12	10	24	21	2	
Size	#5	#5	#5	#5	#5	#5	
Length	36'-6"	4'-7"	18'-8"	18'-8"	6'-0"	4'-8"	36'-8"
Splice							

Class A Concrete 39.8 Cu. Yds.
 Reinforcing Steel 3020 Lbs.
 Steel Piles (10 SP42) 156 Lin. Ft.
 Steel Test Pile 30 Lin. Ft.

CITY OF WICHITA, KANSAS
 B. E. SMITH, CITY ENGINEER
PIER DETAILS
 WASSALL STREET BRIDGE
 OVER
 DRY CREEK
 R. S. DELAMATER
 CONSULTING ENGINEER
 WICHITA, KANSAS
 DATE March 1954
 DWG. NO. 79-D-4

DESIGNED BY: R. S. DELAMATER
 CHECKED BY: B. E. SMITH
 DATE: MARCH 1954
 DRAWING NO.: 79-D-4



BAR LIST

Mark	F1	F2	S1	S2	S3	S4	S5	S6	S7
No. Spans	10	10	10	10	10	10	10	10	10
Length	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"	18'-0"
Spans	10	10	10	10	10	10	10	10	10
Mark	S8	S9	S10	S11	S12	T	W		
No. Spans	26	26	26	26	26	109	179		
Size	#4	#4	#4	#4	#4	#4	#4		
Length	12'-0"	12'-0"	25'-0"	18'-6"	53'-9"	8'-0"			
Spans									

SUMMARY OF QUANTITIES

Class AAA Concrete	143.8	Cu Yd
Concrete Handrail	176.3	Lin Ft.
Reinforcing Steel	3,050	Lbs.
Structural Steel	90	Lbs.

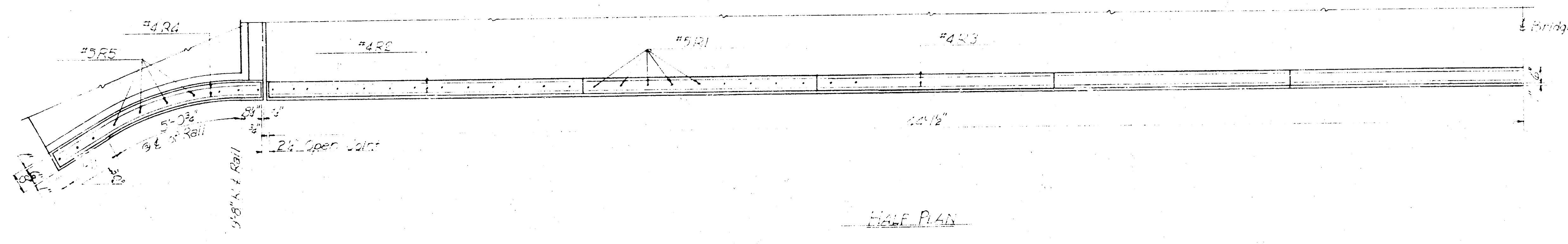
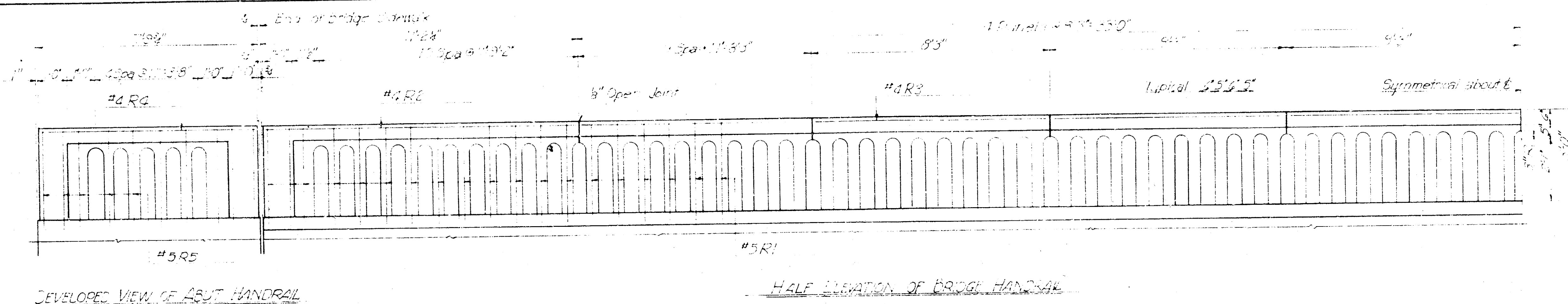
CITY OF WICHITA, KANSAS
B. E. SMITH, CITY ENGINEER

SLAB DETAILS
WASSALL STREET BRIDGE
OVER
DRY CREEK

R. S. DELAMATER
CONSULTING ENGINEER
WICHITA, KANSAS

DATE: March, 1954
SCALE: _____
DWG. NO.: 79-D-5

NOTES:
Class AAA concrete will be used throughout. Bevel all exposed edges with 3/4" chamfer using rollers otherwise indicated.
Expansion joint materials and Copper Retainers shall be paid for directly but shall be included in the unit price for Class AAA concrete.
Design Loading: H-20-44
Unit Strength: 3,000 psi
Slab construction joints are optional but used shall be as indicated shown.
Provide 1/2" lead load center in each span.
See sheet 6 for handrail details.

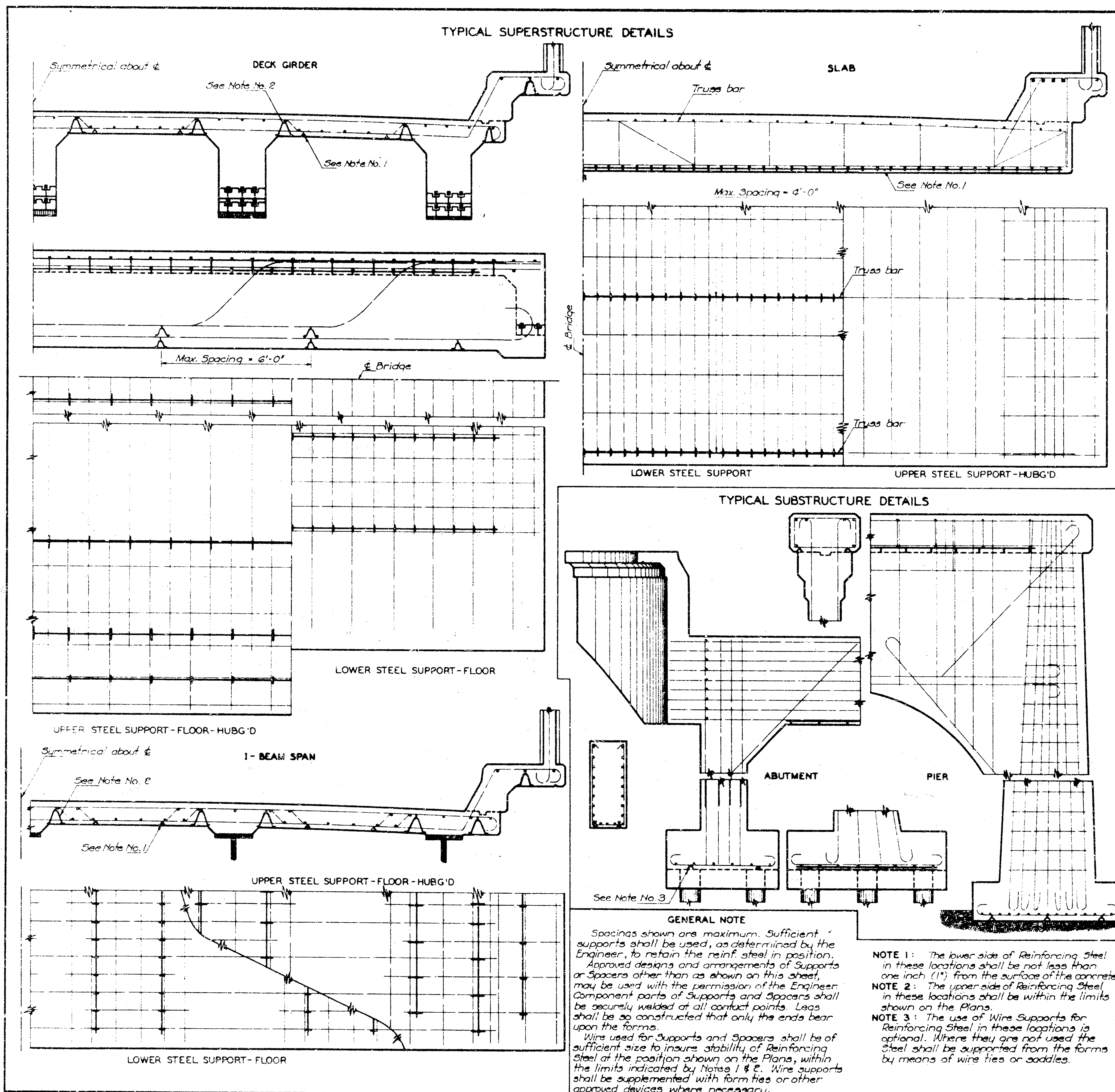


BAR LIST					
Mark	R1	R2	R3	R4	R5
No. Bars	196	9	36	8	40
Size	#4	#4	#4	#4	#5
Length	5'-0"	7'-0"	3'-0"	7'-5"	3'-0"
Shape					
SUMMARY OF QUANTITIES					
Class A Concrete	5 cu Yd				
Reinforcing Steel	1210 lbs.				

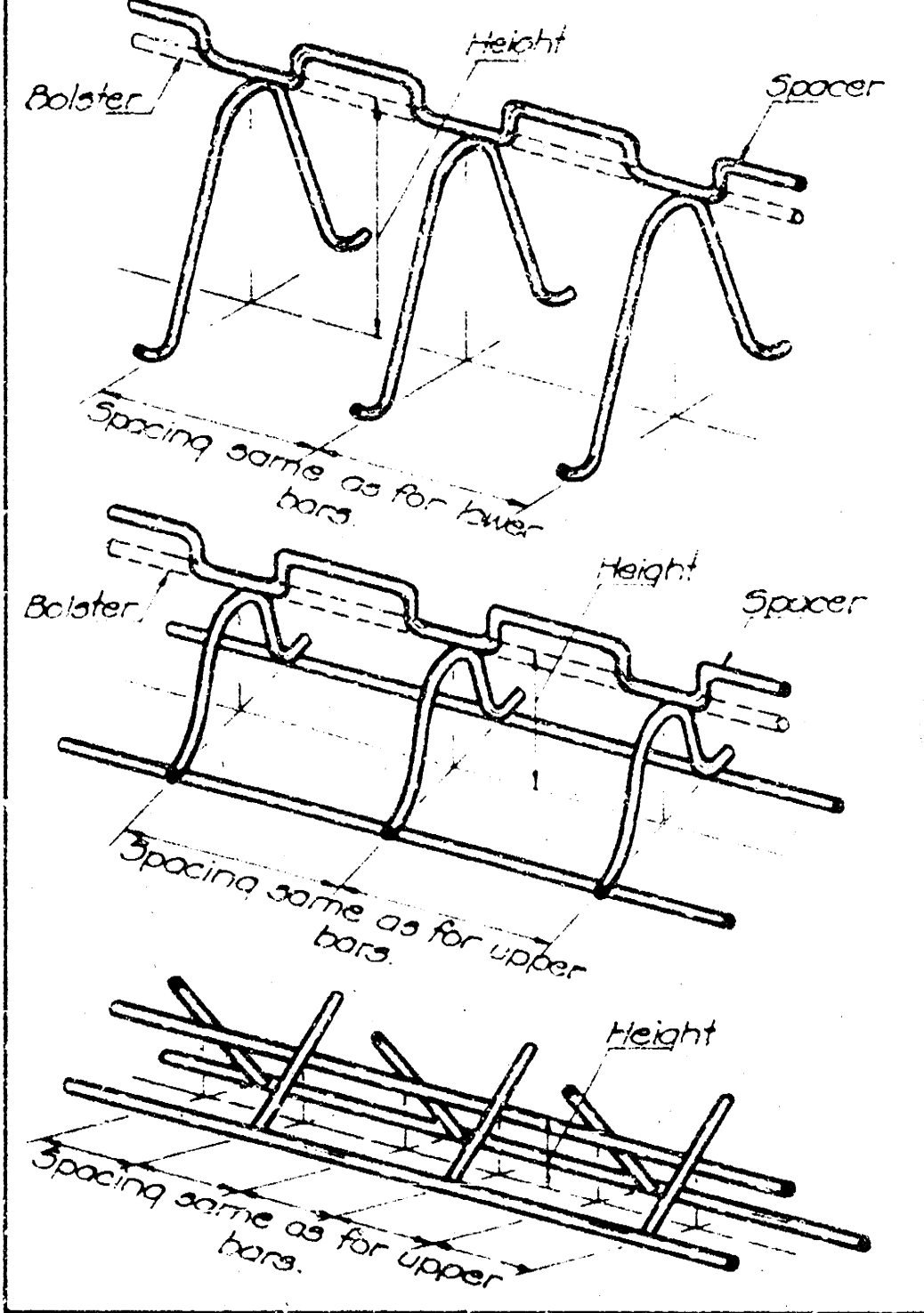
NOTES:
 All concrete used in the handrail shall be Class A.
 Seal all exposed edges with a 1/2" triangular molding unless otherwise indicated.
 Bid item "Concrete Handrail" shall include all Class A Concrete and reinforcing steel in handrail concrete in place as shown on this sheet.
 Concrete Handrail shall be bid on basis of linear feet in place. The Class A Concrete and Reinforcing Steel quantities shown on this sheet are for Contractors information only.

SURV. PLOT DIM. 2 1/2' DATE 11-17-33 APP. R.P. 1/4

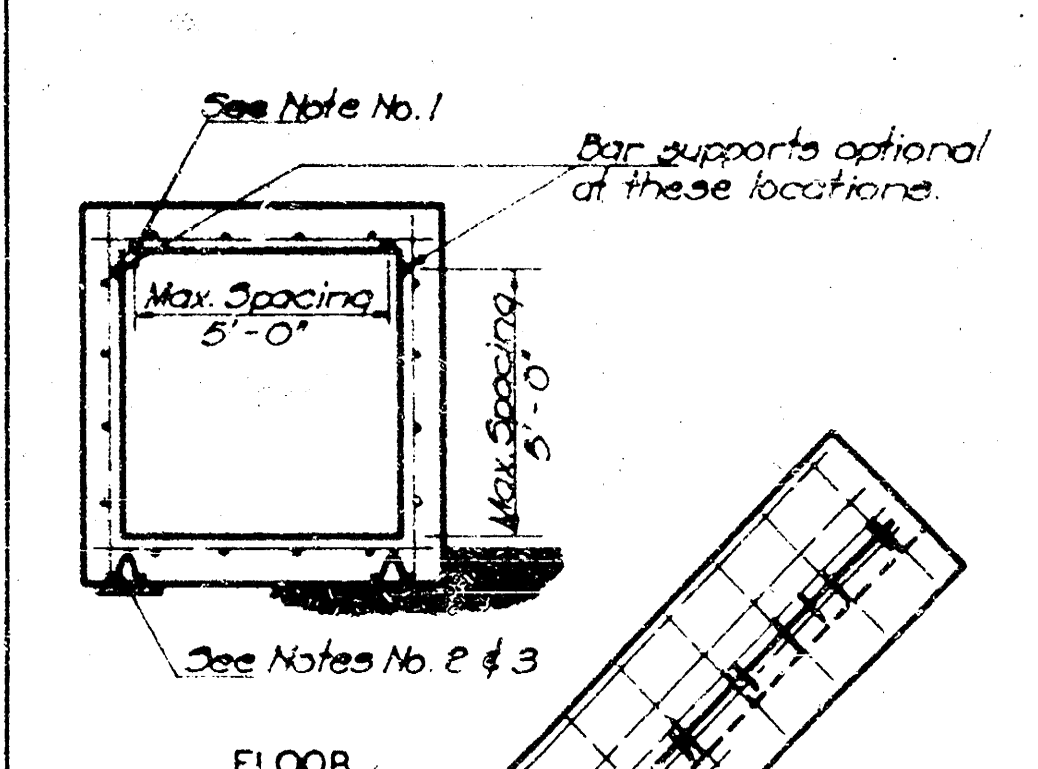
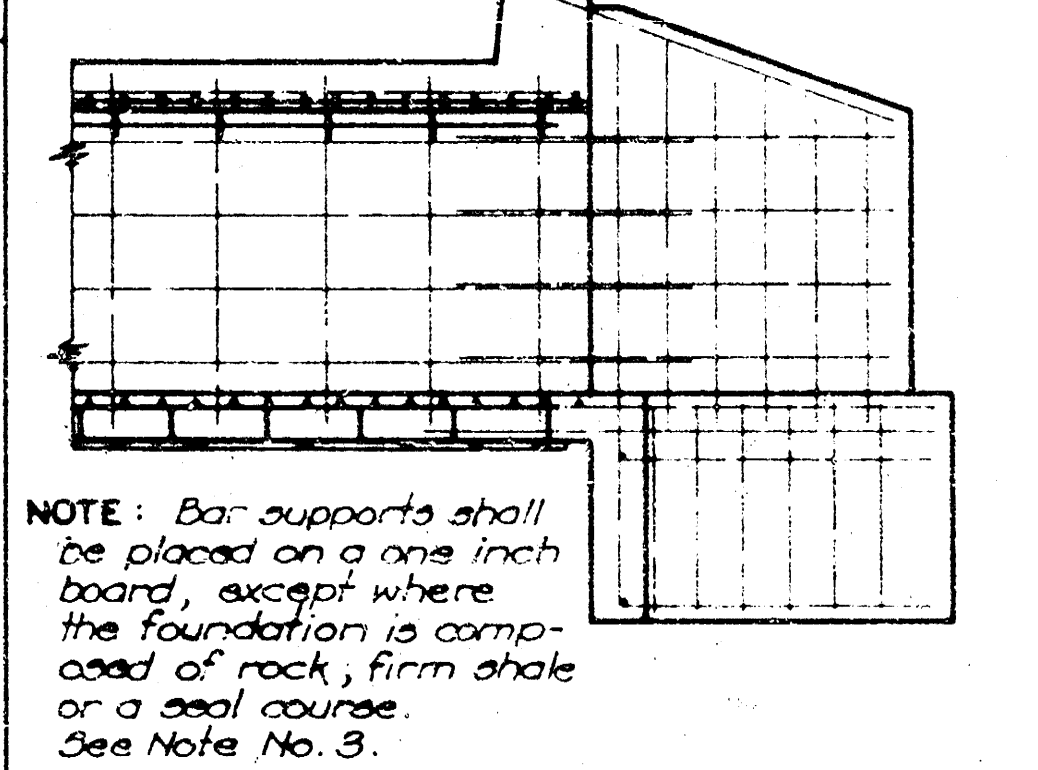
CITY OF WICHITA, KANSAS	
B. E. SMITH, CITY ENGINEER	
HANDRAIL DETAILS	
WASSALL STREET BRIDGE	
OVER	
DRY CREEK	
R. S. DELAMATER CONSULTING ENGINEER WICHITA, KANSAS	DATE <i>March</i> 1934 SCALE 1/2" = 1'-0" DWG. NO. 79-D-6



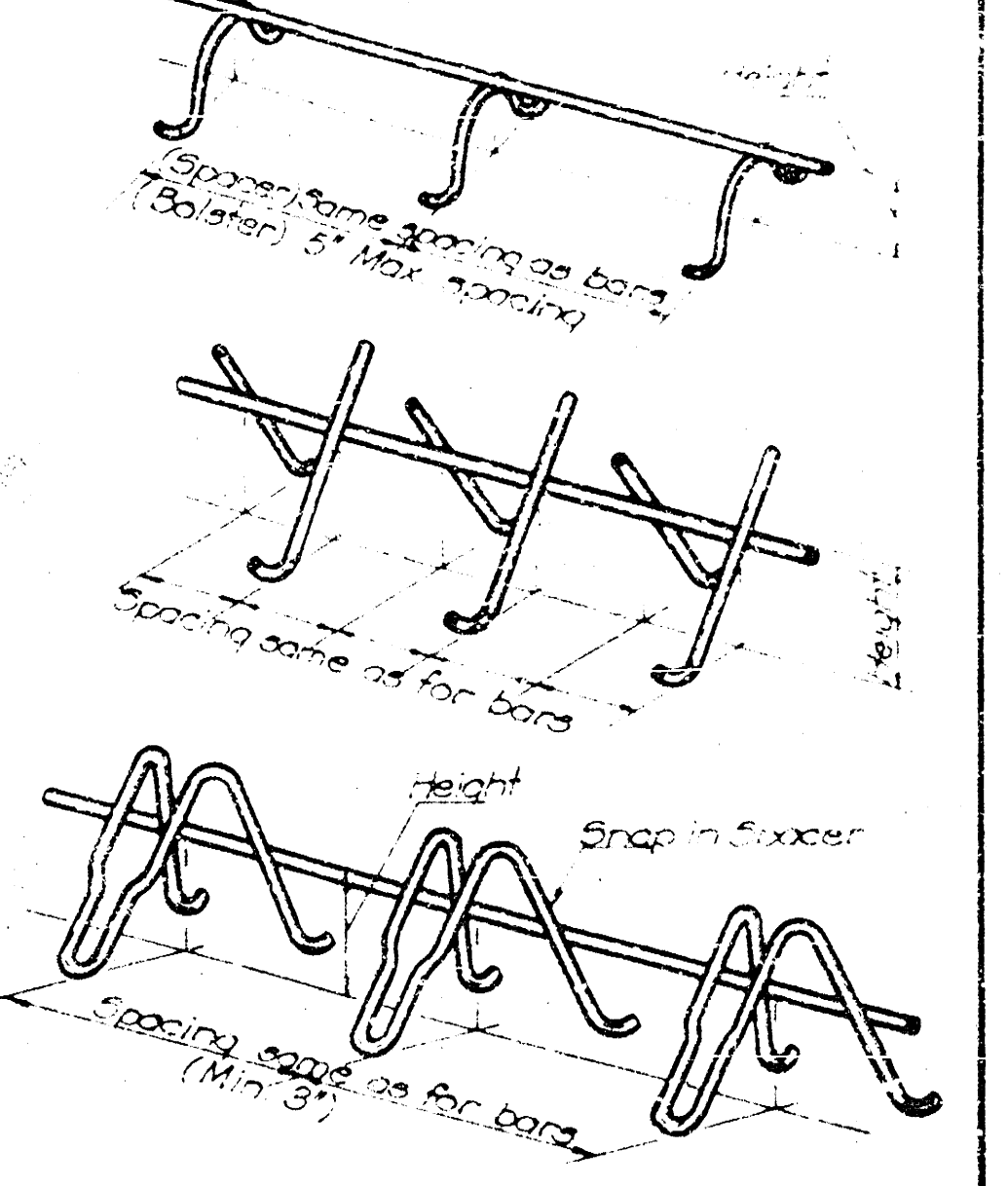
BEAM BAR SPACERS & BOLSTERS



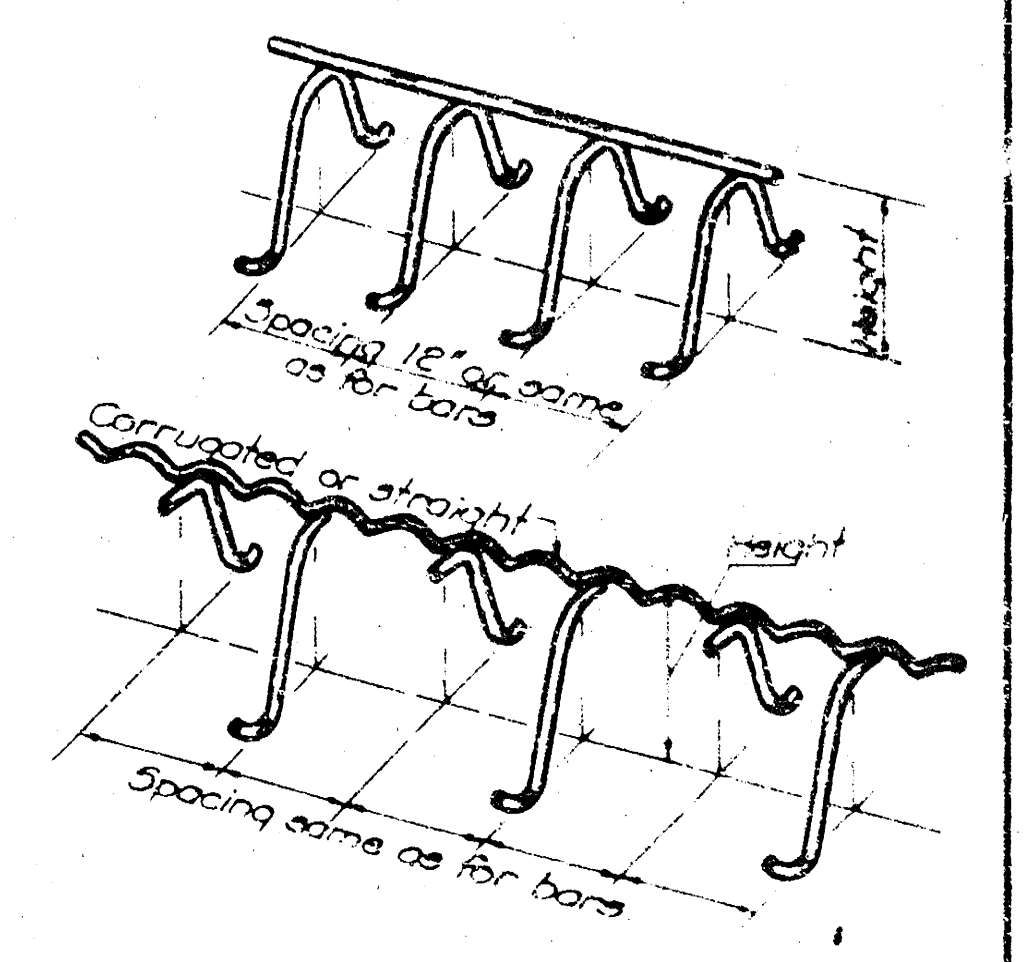
TYPICAL CULVERT DETAILS



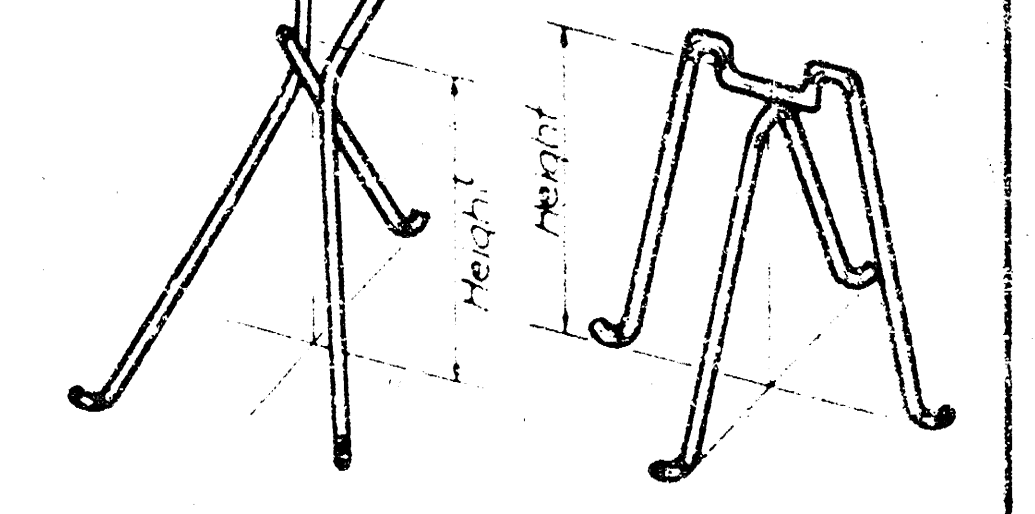
LOW SLAB BAR SPACERS & BOLSTERS



HIGH SLAB BAR SPACERS & BOLSTERS



INDIVIDUAL HIGH BAR CHAIRS

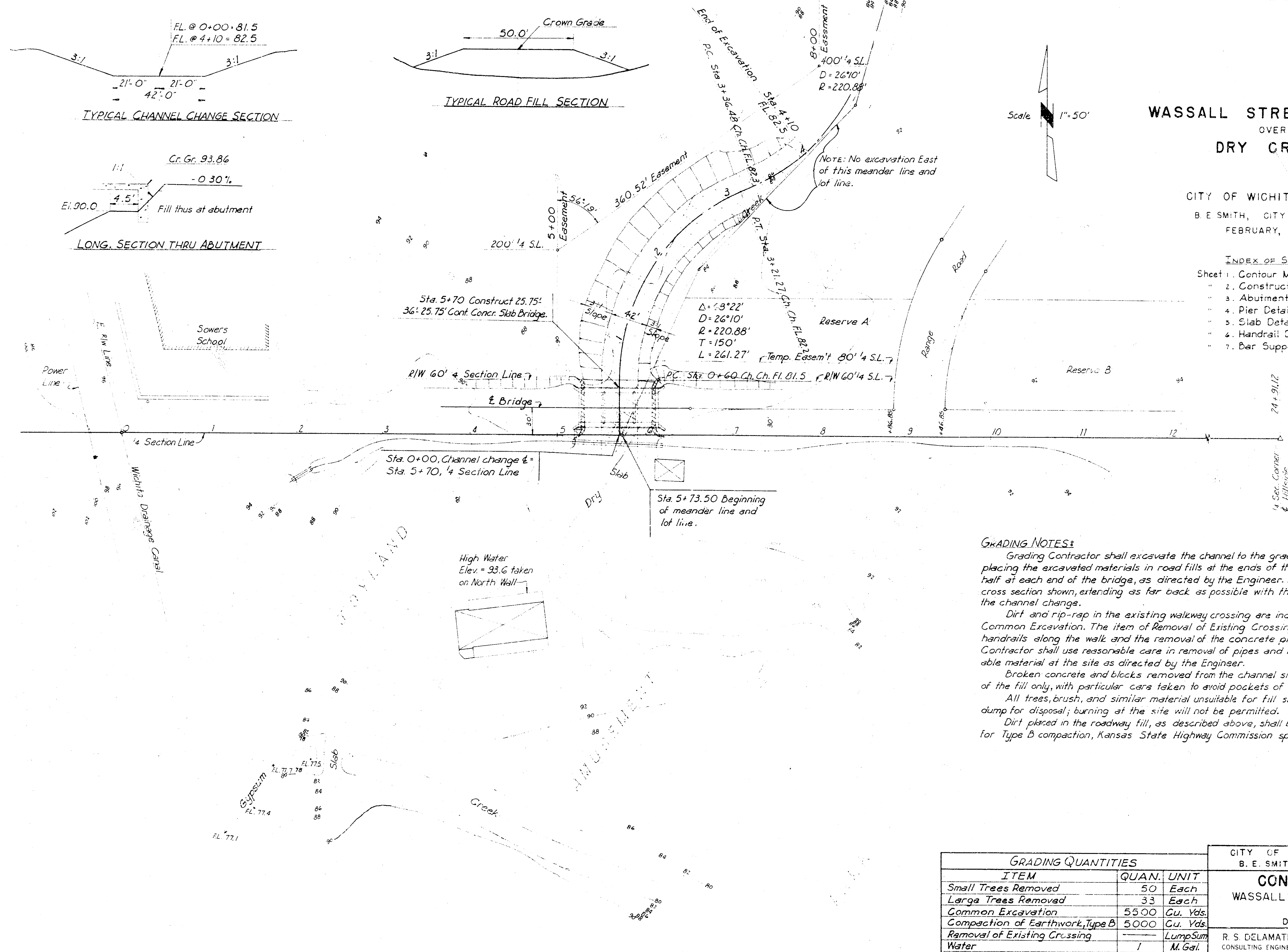


3					
2	3-25	No change from 1925 Open's			
1					
NO.	DATE	REVISIONS	BY	APP'D	

STATE HIGHWAY COMMISSION OF KANSAS

SUPPORTS AND SPACERS FOR REINFORCING STEEL

STD. NO. 610 SCALE: No. 5/8" = 1'-0"
DESIGNED BY STATE ENGINEER J. J. A. TRACY BY J. J. A.
CHECKED BY G. T. APPROVED BY DATE 4-11-24



**WASSALL STREET BRIDGE
OVER
DRY CREEK**

CITY OF WICHITA, KANSAS
B. E. SMITH, CITY ENGINEER
FEBRUARY, 1954

INDEX OF SHEETS

- Sheet 1. Contour Map
- 2. Construction Layout
- 3. Abutment Details
- 4. Pier Details
- 5. Slab Details
- 6. Handrail Details
- 7. Bar Supports & Spacers

GRADING NOTES:

Grading Contractor shall excavate the channel to the grade and dimensions indicated placing the excavated materials in road fills at the ends of the bridge, approximately half at each end of the bridge, as directed by the Engineer. Fills are to be built to the cross section shown, extending as far back as possible with the material available from the channel change.

Dirt and rip-rap in the existing walkway crossing are included in the quantities of Common Excavation. The item of Removal of Existing Crossing includes removal of handrails along the walk and the removal of the concrete pipe under the crossing. Contractor shall use reasonable care in removal of pipes and handrail, storing all salvageable material at the site as directed by the Engineer.

Broken concrete and blocks removed from the channel shall be scattered in the toe of the fill only, with particular care taken to avoid pockets of such material in the fill.

All trees, brush, and similar material unsuitable for fill shall be hauled to the city dump for disposal; burning at the site will not be permitted.

Dirt placed in the roadway fill, as described above, shall be compacted as specified for Type B compaction, Kansas State Highway Commission specifications.

GRADING QUANTITIES		
ITEM	QUAN.	UNIT
Small Trees Removed	50	Each
Large Trees Removed	33	Each
Common Excavation	5500	Cu. Yds.
Compaction of Earthwork, Type B	5000	Cu. Yds.
Removal of Existing Crossing		Lump Sum
Water	1	M. Gal.

CITY OF WICHITA, KANSAS
B. E. SMITH, CITY ENGINEER

CONTOUR MAP
WASSALL STREET BRIDGE
OVER
DRY CREEK

R. S. DELAMATER
CONSULTING ENGINEER
WICHITA, KANSAS

DATE: March, 1954
SCALE: 1" = 50'

DRAWN BY: H.L.M. IN FIELD
 CHECKED BY: H.L.M.
 DATE: 2/10/54



MEASURED QUANTITIES FOR FINAL ESTIMATES ON PAVING

PROJECT NAME: _____ CONTRACT NO.: _____

DATE: _____

SECTION: _____

STATION: _____

DESCRIPTION: _____

QUANTITY: _____

UNIT: _____

AMOUNT: _____

TOTAL: _____

REMARKS: _____

APPROVED BY: _____

DATE: _____

PROJECT: _____

SECTION: _____

STATION: _____

DESCRIPTION: _____

QUANTITY: _____

UNIT: _____

AMOUNT: _____

TOTAL: _____

REMARKS: _____

APPROVED BY: _____

DATE: _____

PROJECT: _____

SECTION: _____

STATION: _____

DESCRIPTION: _____

QUANTITY: _____

UNIT: _____

AMOUNT: _____

TOTAL: _____

REMARKS: _____

APPROVED BY: _____

DATE: _____