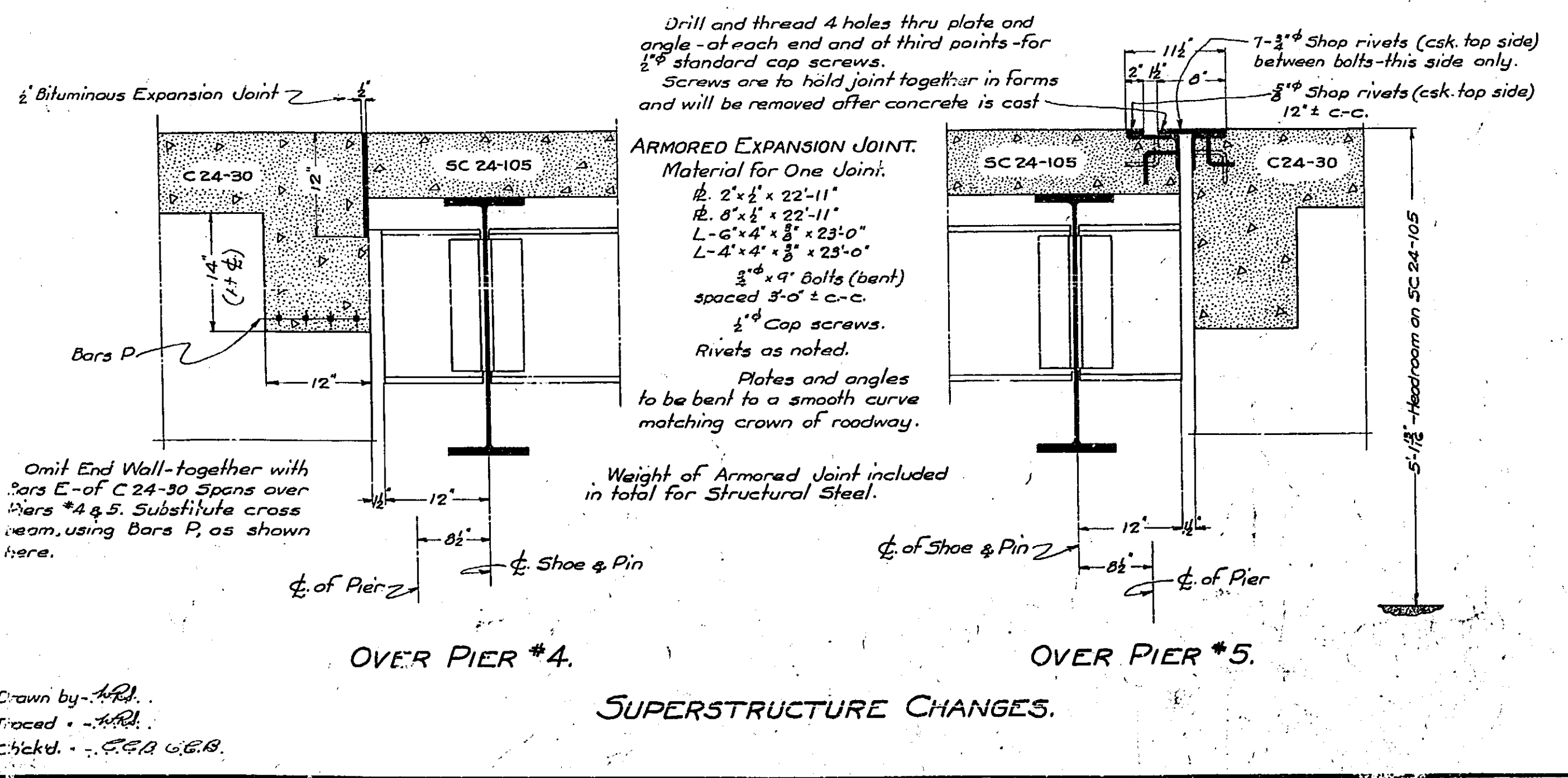
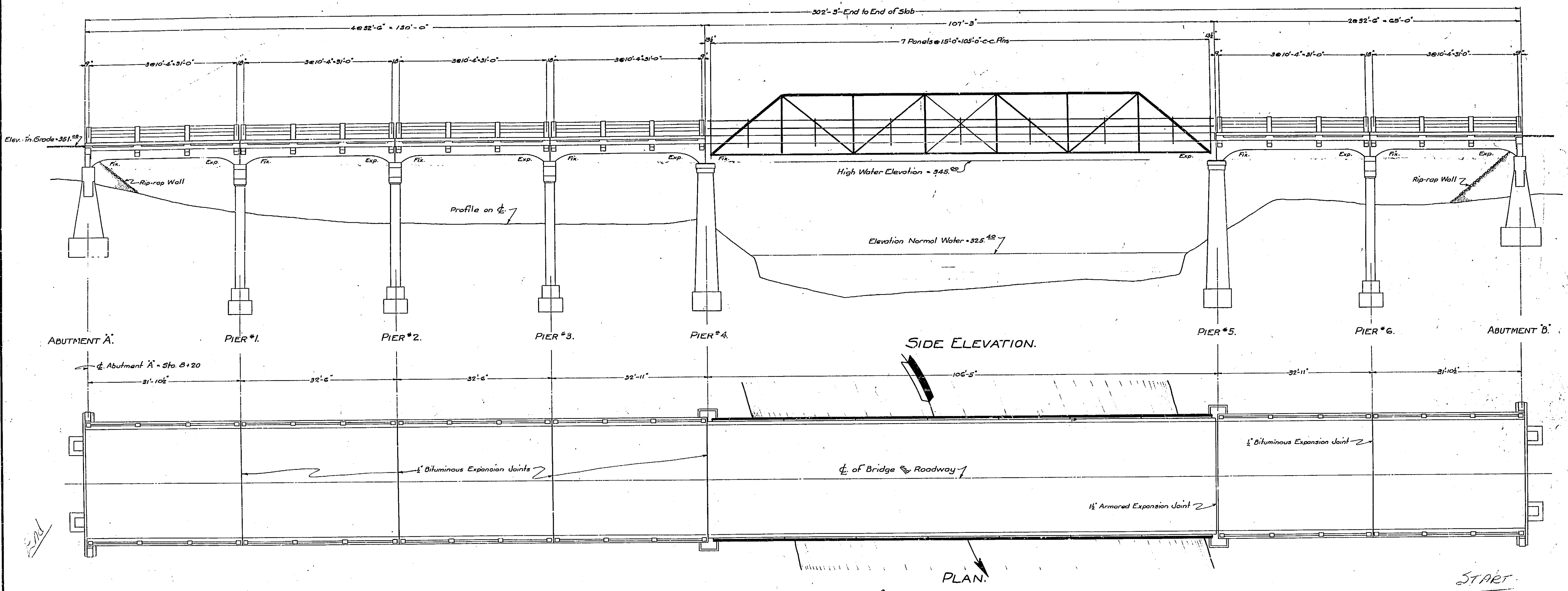


FED. ROAD DIST. NO.	STATE	B. & R. ROUTE NO.	PROJ. NO.	STATE ROUTE NO.	PROJ. NO.	SHEET NO.	TOTAL SHEETS
10	VA.	12	634	12	634		



ESTIMATED QUANTITIES.

	Concrete-Cu.Yd.	Reinf.Steel Lbs.	Struct.Steel Lbs.	Excavation-Cu.Yd.
	Class A			Wet Dry
Superstructure...	322.4	66635	11800	
Abut. A'-Neat...	15.9	2245		
-Footing...	9.2			56 55
Pier #1...	19.8	2190		39 2 37
Pier #2...	17.8	2190		38 21 25
Pier #3...	20.1	2190		69 3 27 25
Pier #4-Neat...	38.5	2530		
-Footing...	12.3			50 44 24 27
Pier #5-Neat...	39.8	2530		
-Footing...	9.8			50 44 23 32
Pier #6...	21.0	2190		29 31 37
Abutment B'-Neat...	18.1	2245		
-Footing...	37.0			40 22 50
Totals...	585.9	17345	11800	256 164 288 288

Note: Contractor to be paid for 585.9 Cu.Yds of Concrete.

GENERAL NOTE-
 Roadway 24 Feet - Capacity 2 15-ton Trucks passing.
 Specifications-Virginia State Highway Commission, 1926.
 All Concrete shall be Class A.
 To provide for Variation in Depth to Foundations, Adjustment will be made in Stems of Piers #2-3 & 6. Such Adjustments will be made in Footings of Abutments and Piers #4 & 5, depths of Footings for which are shown approximately only.
 Footings for all Piers shall extend to Solid Rock. Abutment Footings shall rest on Firm Material and all Foundations to be approved by the Engineer.
 Excavation above Elevation 325.00 shall be classified as Dry, and below that Elevation as Wet.
 Quantities for Items on which lump sum Bids are asked are approximate only, and are given for estimating Purposes.
 For further Details of Superstructure see Standard Plans SC 24-105, and C24-30.
 B.M.-Nail in 10" Water Cypress 40 Ft. L. Sta. 9+10 - Elev. 332.42

COMMONWEALTH OF VIRGINIA
 DEPARTMENT OF HIGHWAYS
 PROPOSED BRIDGE
 OVER BANISTER RIVER AT HALIFAX
 ROUTE 12-PROJ. 634-STATION 9+70-HALIFAX CO.
 6-30'-0" REINFORCED CONCRETE BEAM SPANS
 1-105'-0" LOW STEEL TRUSS.
 RICHMOND, VA.

Recommended for approval:-

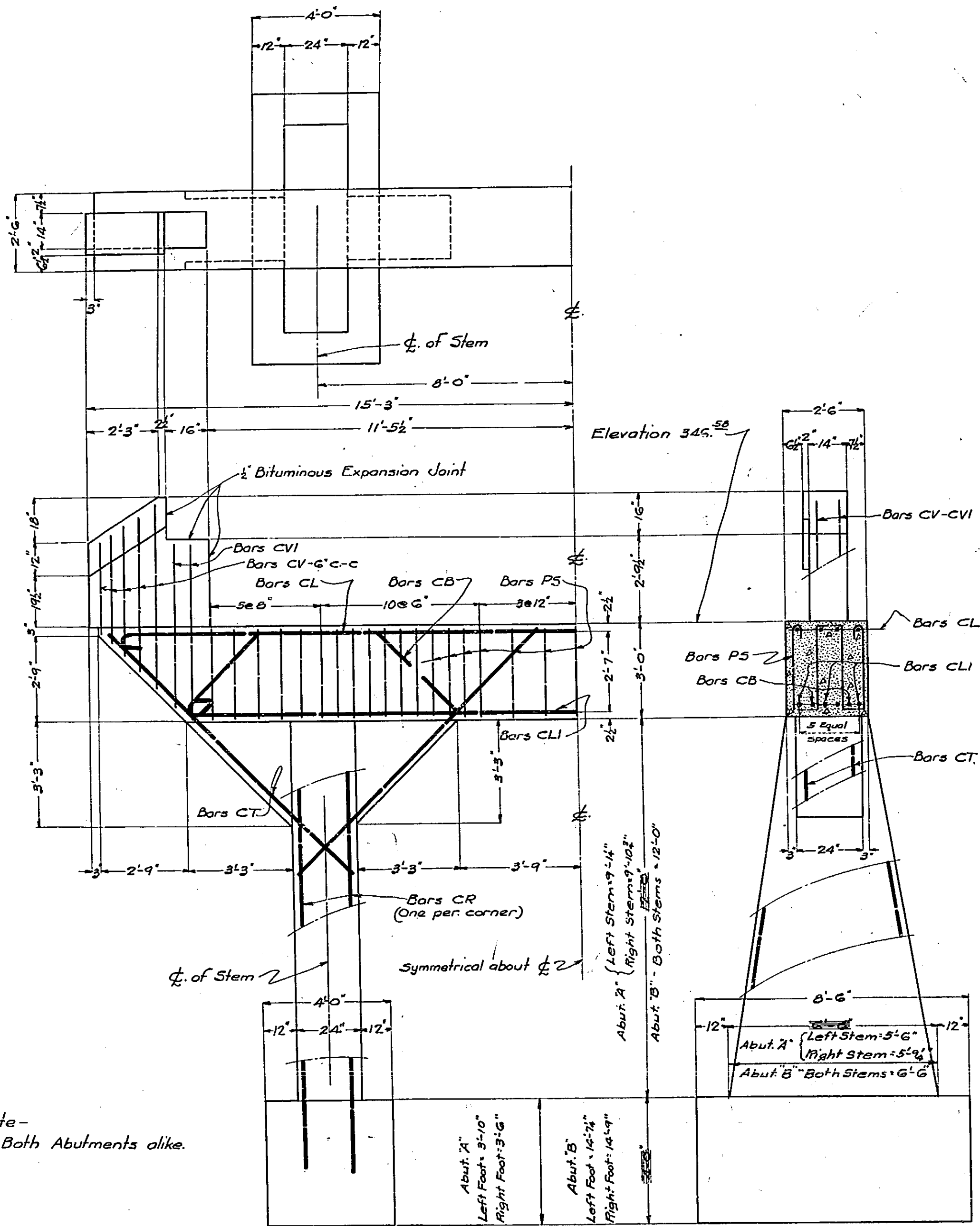
Approved:-

Scale - 1/8" = 1'-0"
 May, 1930.

Finals Posted Nov. 17, 1930.

XL1-15.
 Sheet 1 of 3.

41-15-101

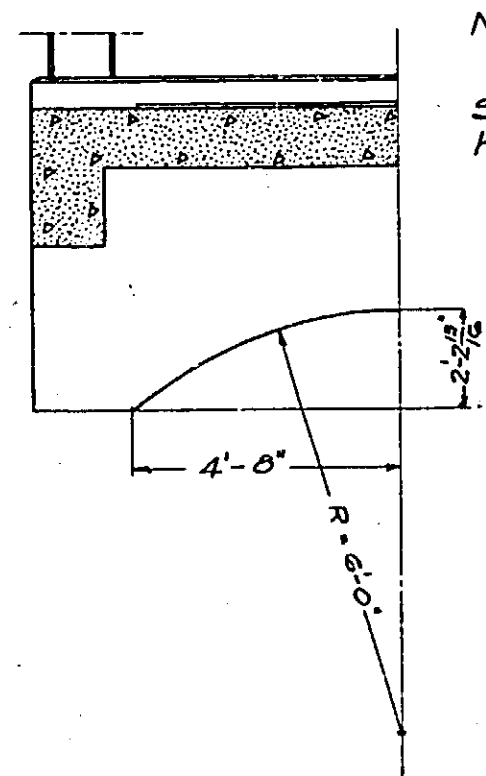


Note -
Both Abutments alike.

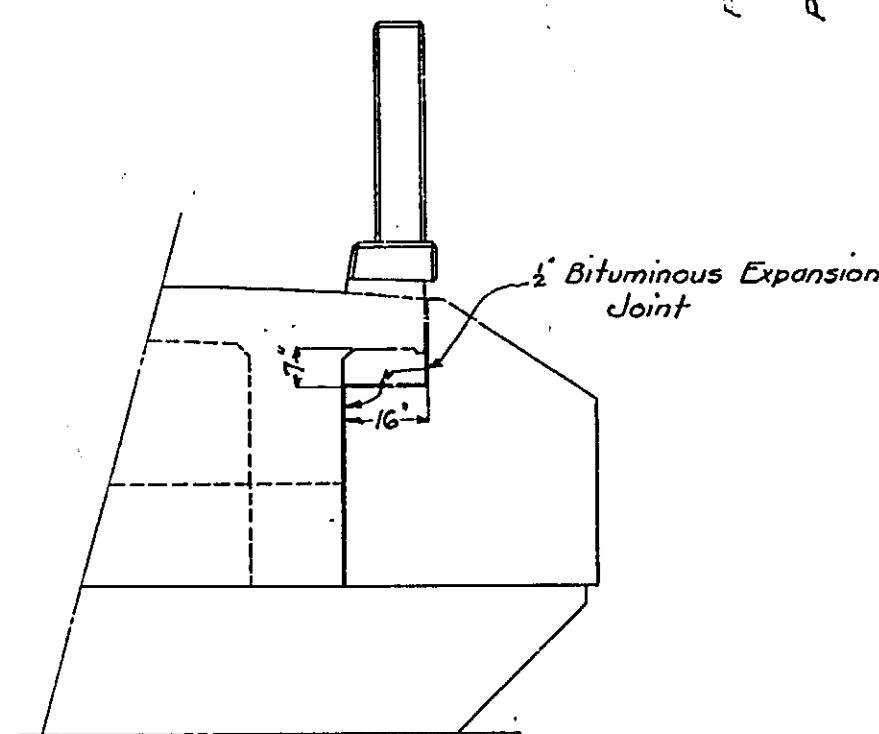
HALF SIDE ELEVATION.

SECTION on ϕ .

DETAIL of ABUTMENTS.

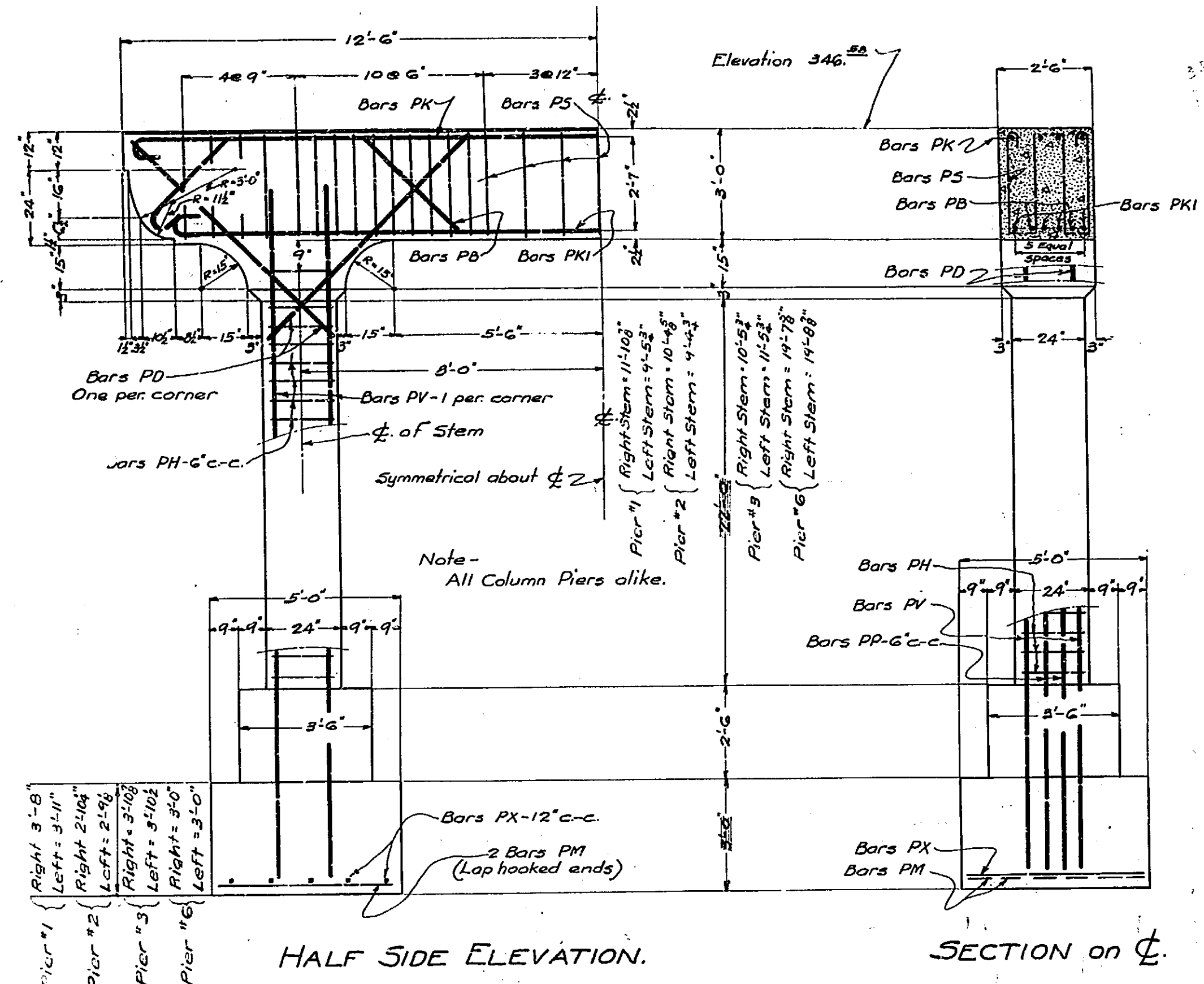


Note -
Radius of Beams on C24-30
Spans to be changed as shown
here - over Piers #4 & 5 only.



Note - End Post Brackets to be changed
as shown over Abutments.

END VIEW over ABUTMENTS.



HALF SIDE ELEVATION.

SECTION on ϕ .

DETAIL of PIERS #1-2-3 & 6.

BANISTER RIVER BRIDGE SUBSTRUCTURE DETAILS.

Virginia Department of Highways.
Office of the Bridge Engineer.
Richmond, Va. May, 1930.

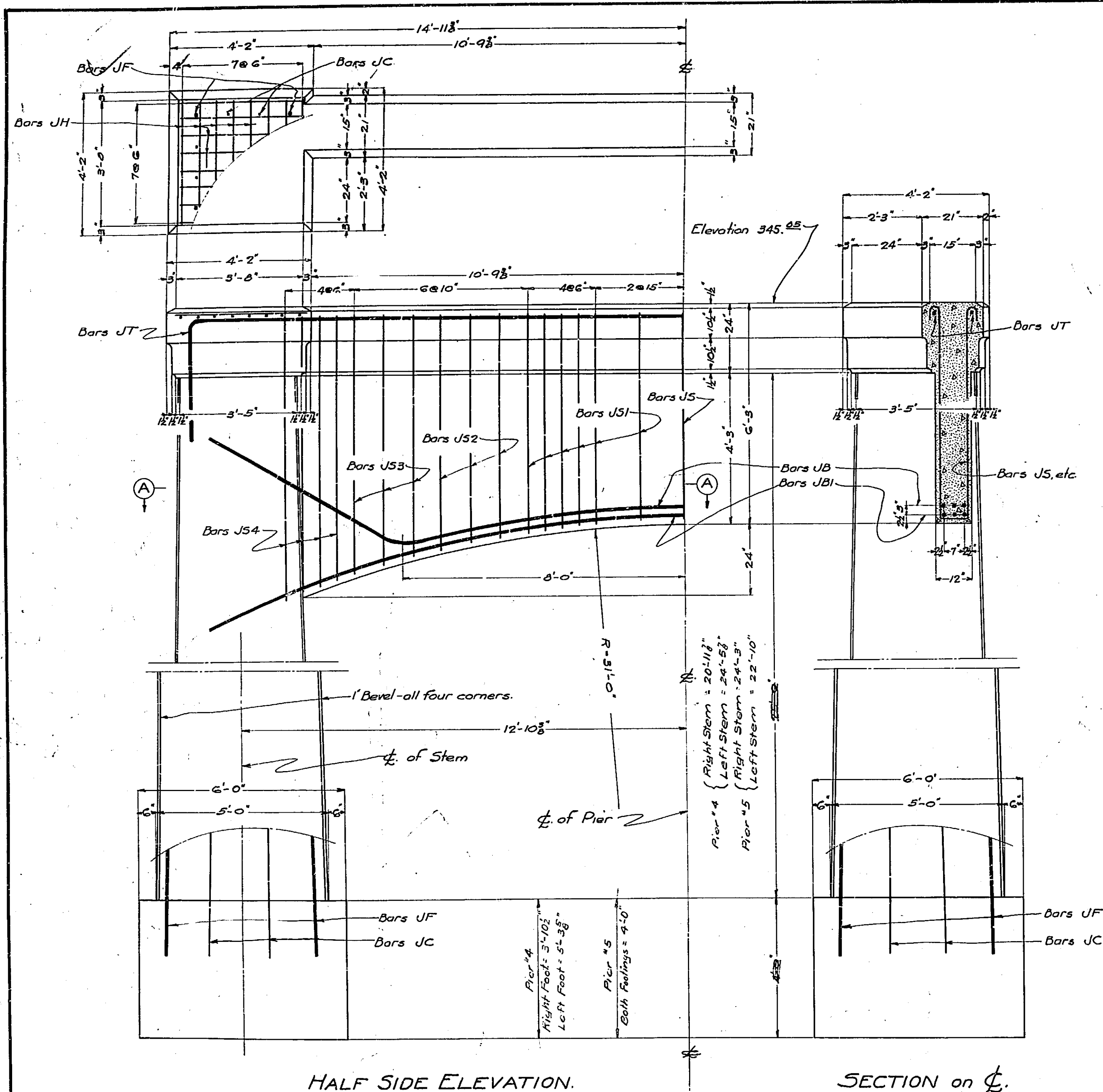
Drawn by - A.P.L.
Traced - A.P.L.
Checked - G.C.B.

Scale - $\frac{3}{8}$ " = 1'-0"

XLI - 15.
Sheet 2 of 3.

441-151020

E
 3
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 5
 1-1
 4



SCHEDULE OF SUBSTRUCTURE STEEL.

I- ABUTMENTS.				Location		Bending Diagram.	
Mark	Size	No	Length				
CB	1 ^{1/2} "	4	28'-11"	Bent	Beams		
CL	1 ^{1/2} "	8	30'-6"				
CL1	1 ^{1/2} "	8	22'-0"				
CT	1 ^{1/2} "	16	11'-0"	Str	Brackets		
CR	1 ^{1/2} "	16	16'-0"		Stems		
PS	1 ^{1/2} "	74	15'-7"	Bent	Beam stirrups		
CV	1 ^{1/2} "	40	2'-11" to 6'-5"	Str	Wing Walls		
CVI	1 ^{1/2} "	16	3'-4"				
II- PIERS #1-2-3 & 6.				Location		Bending Diagram.	
PB	1 ^{1/2} "	4	28'-11"	Bent	Beam		
PK	1 ^{1/2} "	16	26'-0"				
PK1	1 ^{1/2} "	16	24'-0"				
PP	1 ^{1/2} "	32	9'-0"	Str	Stems		
PV	1 ^{1/2} "	32	30'-0"				
PH	1 ^{1/2} "	32	7'-0"		Brackets		
PS	1 ^{1/2} "	140	13'-7"	Bent	Beam stirrups		
PY	1 ^{1/2} "	40	4'-0"	Str	Pedestals		
PH	1 ^{1/2} "	16	23'-6"	Bent			
PH	1 ^{1/2} "	360	7'-0"		Stems		
III- PIERS #4 & 5.				Location		Bending Diagram.	
JT	1 ^{1/2} "	4	35'-10"	Bent	Beams		
JB	1 ^{1/2} "	6	29'-0"	Str			
JBI	1 ^{1/2} "	6	29'-0"				
JF	1 ^{1/2} "	16	29'-0"		Stems		
JC	1 ^{1/2} "	32	29'-0"				
JH	1 ^{1/2} "	64	3'-8"		Caps		
JS	1 ^{1/2} "	2	13'-5"	Bent	Beam stirrups		
JS1	1 ^{1/2} "	24	18'-4" to 18'-11"				
JS2	1 ^{1/2} "	12	14'-2" to 14'-10"				
JS3	1 ^{1/2} "	12	15'-2" to 15'-12"				
JS4	1 ^{1/2} "	12	16'-3" to 17'-0"				

Bend Bars JB and JBI in field as shown in Detail of Piers #4 & 5. All bends to be made with a radius of 2 1/2 diameters unless otherwise shown.

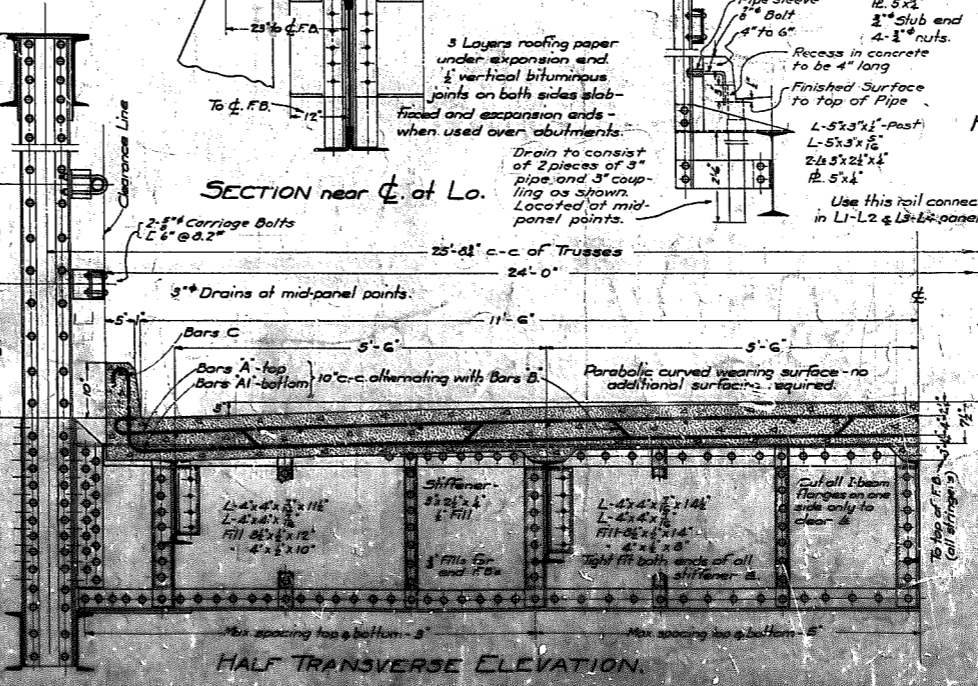
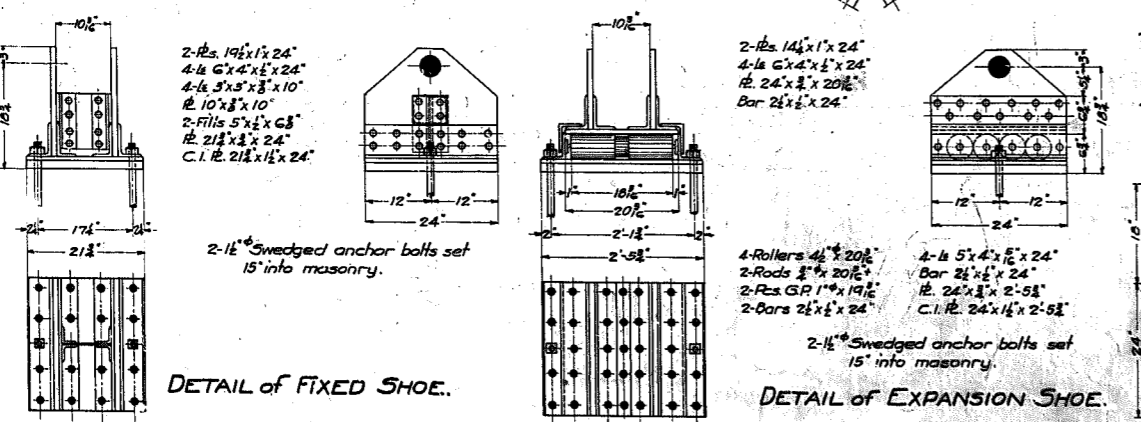
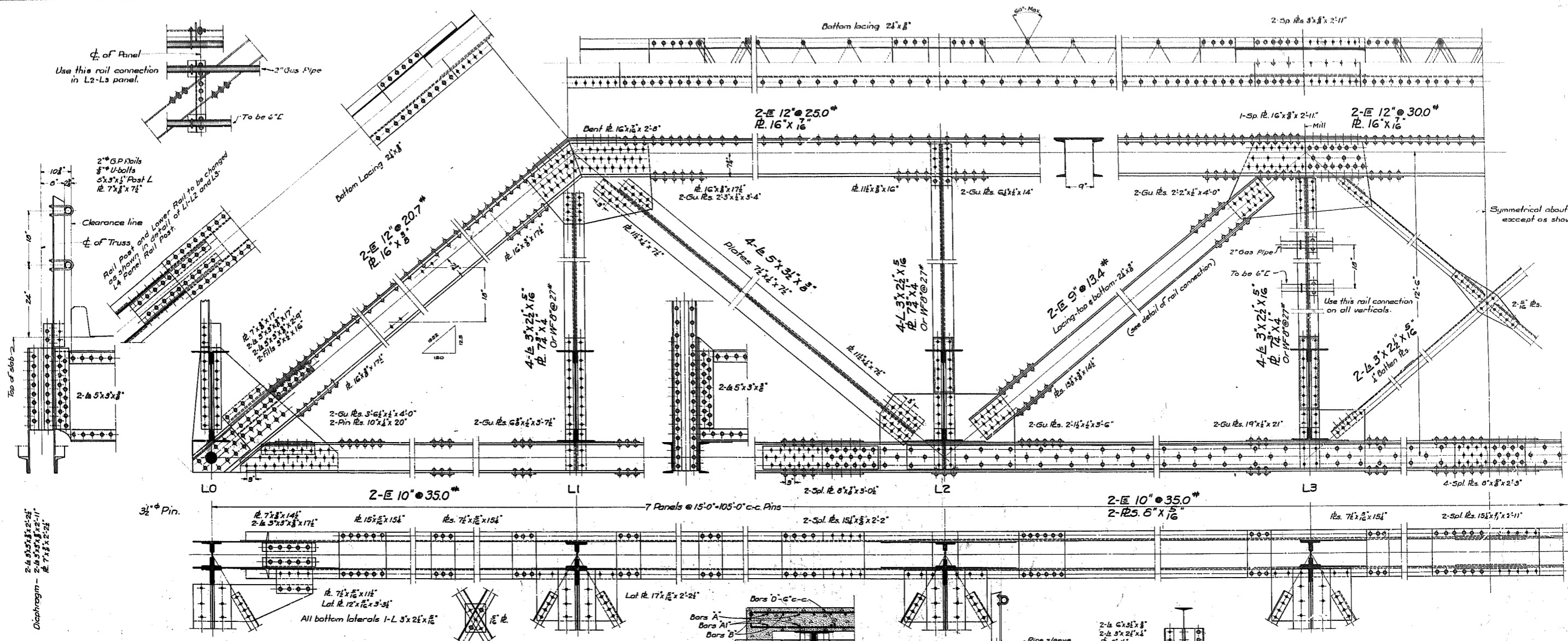
**BANISTER RIVER BRIDGE
SUBSTRUCTURE DETAILS.**

Virginia Department of Highways
Office of the Bridge Engineer.
Richmond, Va. May, 1930.

Scale = 1/2" = 1'-0"

XLI-15.
Sheet 3 of 3

Drawn by - *ARR*
Traced - *ARR*
Check'd - *REX*



GENERAL NOTE:
 Specifications - Virginia Department of Highways.
 All Concrete to be Class A.
 Metal Supports for Reinforcing Bars adjacent to forms shall be galvanized.
 All Rivets to be 3\"/>

QUANTITIES.
 Class A Concrete 66.4 cu. yd.
 Reinforcing Steel 13,035 lbs.

STRINGERS.
 Interior - 10' Is @ 54.7"
 Exterior - 19' Is @ 42.9"
 or
 Interior - 10' @ 49.0" Beth. Is.
 Exterior - 15' @ 39.0" Beth. Is.

FLOOR BEAMS
 Interior - 4-1/2 6"x4"x1/2" on 10' Beth. Bm. 30 @ 115"
 Exterior - 4-1/2 6"x4"x1/2" on 10' Beth. Bm. 30 @ 108"
 End - 4-1/2 6"x4"x1/2" on 10' Beth. Bm. 30 @ 108"

HANGER.
 2-1/2 6"x11/2"
 2-1/2 5"x2 1/2"
 1-5"x1"
 4-1" nuts and 4-1" washers

SCHEDULE OF REINFORCING STEEL.

Mark	Number	Length	Bending Diagram
A	180	24'-6"	
A1	180	22'-5"	
B	181	25'-5"	
C	60	28'-9"	
D	192	4'-0"	

*Bars not shown in Bending Diagram are straight.
 All bars to be with a radius of 2L
 diameters unless otherwise shown.
 All bars to be #*

STANDARD LOW TRUSS BRIDGE
 24 FOOT ROADWAY CONCRETE FLOOR CAPACITY 2.15 TON TRUCKS PASSING
 105 FT. C. TO C. PINS
 SCALE 3/4" IN = 1 FOOT

Recommended for approval:
 [Signature] Bridge Engineer
 Approved:
 [Signature] Chief Engineer

Virginia Department of Highways
 Office of the Bridge Engineer
 Richmond, Va. May, 1925

Revised 9-21-35

Drawn by - A.D.J.
 Traced - J.H.B.
 Checked - J.H.B.

SC 24-105