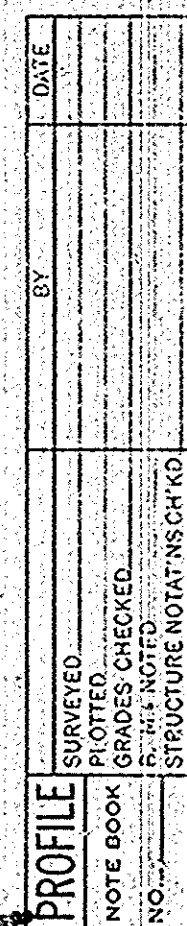
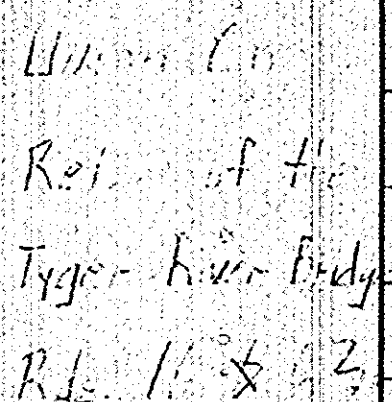
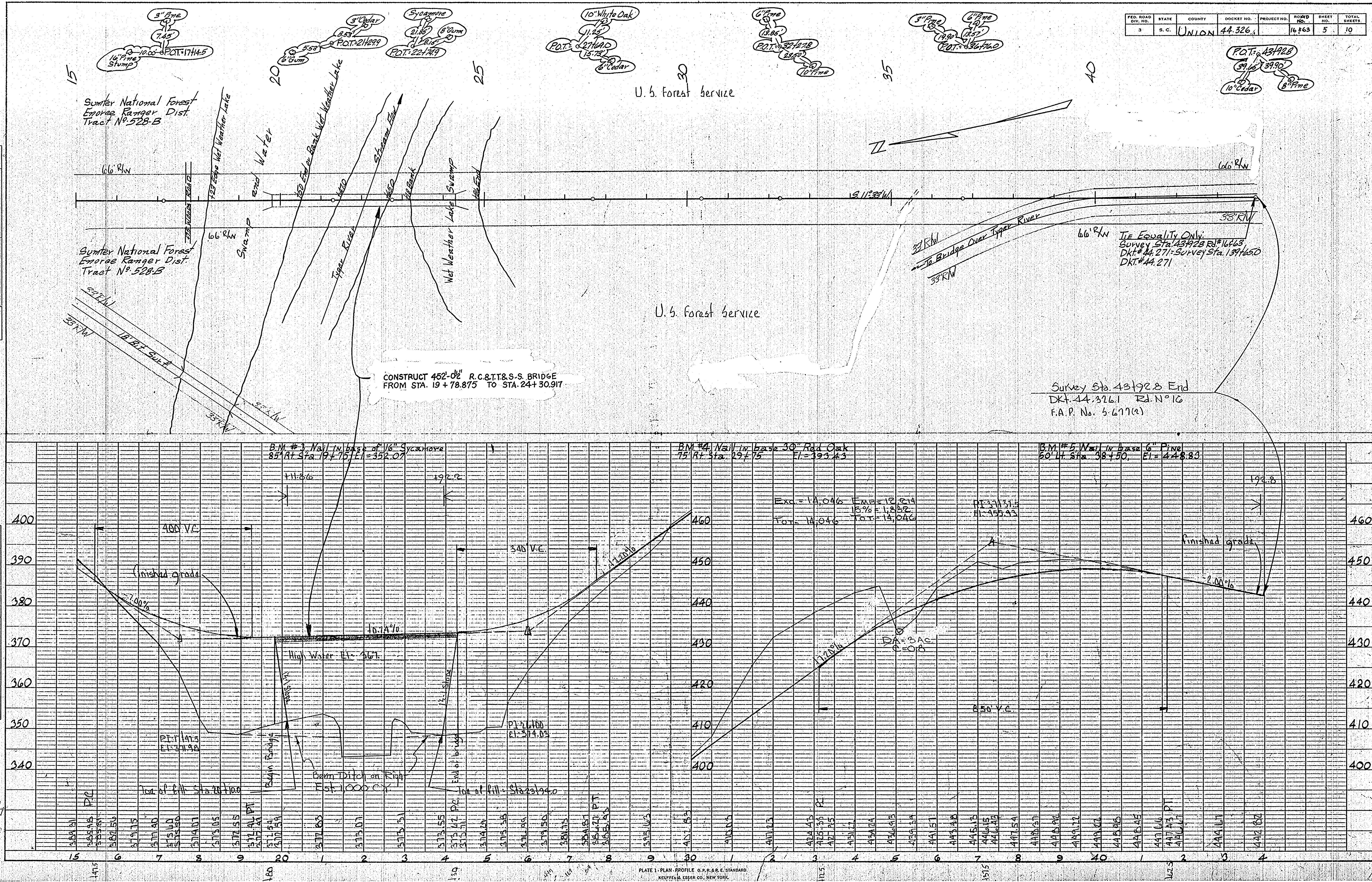
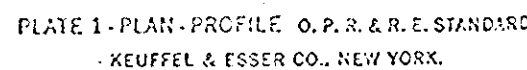


A hand-drawn diagram of a tree. At the top, a cloud-like shape contains the text "P.O.T.: 43/928". Below this, two speech bubble-like shapes contain the measurements "39' 15\" and "39' 90\". The tree trunk is represented by a vertical line. At the base of the trunk, two cloud-like shapes contain the text "10\" Cedar" and "8\" Pine".



PLAN	REVISED	BY	DATE
NO. 5 BOOK	PILOTED		
	ALIGNMENT CHECKED		
NO.	RT. OF WAY CHECKED		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK	BY OTTER		
NO.	GRADES CHECKED		
	S. M.A. NOTED		
	STRUCTURE NOTING CHECKED		



FED. RD. DIV. NO.	STATE	COUNTY	DOCKET NO.	ROAD NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	UNION	44.326	16 & 63	7	10

⑥ Bolts to have square heads and nuts.

BILL OF MATERIAL

SUBSTRUCTURE

ONE INTERIOR BENT

+ TREATED LUMBER

NO. DESCRIPTION M.B.M.

1 COP. 10"x12"x18 1.80 A

CREOSOTED PILING B

NO. DESCRIPTION L.F. C

4 CREOSOTED PILES SEE SUMMARY D

HARDWARE F

NO. DESCRIPTION LBS. GI

12 3/4" x 20"x55" RH 33.2 G2

4 3/32"x11"x18 1.05 H

24 3/4" CONC WASHERS 20.4 J

STRUCTURAL STEEL I2

MARK NO. DESCRIPTION K

P 4 12"x16"x1/2" BEAM P

C2 4 15"x33"x1/2" 3" M

52 2 12"x14"x1/2" R N

QUAN. FOR ONE INT. BENT O

*TREATED LBR. O/BOMBSH P

HARDWARE 64.1 LB. S

STRUC. STEEL 360 LBS S

CREO. PILING SEE SUMMARY S3

S4

J2

ONE 50' END SPAN:

REINFORCING STEEL

MARK NO. SIZE LENGTH D

A 160 3/8" 20'-7" S

B 6 2"x8" 50'-0" S

B D 38 2"x8" 5'-2" B

F 100 3/8" 0'-10" S

G 82 3/8" 1'-6" B

G2 32 1/2" 3'-11" B

H 32 1/2" 5'-10" S

I 48 4"x8" 2'-10" B

Jr 16 2"x8" 24'-7" S

K 72 4"x8" 2'-6" B

L 5 1"x8" 16'-3" S

Sg 16 4"x8" 8'-6" B

S3 4 2"x8" 9'-3" B

S4 8 4"x8" 6'-6" B

S

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ONE 50' INT. SPAN

REINFORCING STEEL

MARK NO. SIZE LENGTH D

A 160 3/8" 20'-7" S

B 6 2"x8" 49'-6" S

B D 38 2"x8" 49'-6" S

F 100 3/8" 0'-10" S

G 82 3/8" 1'-6" B

G2 32 1/2" 3'-11" B

H 32 1/2" 5'-10" S

I 48 4"x8" 2'-10" B

Jr 16 2"x8" 24'-7" S

K 72 4"x8" 2'-6" B

L 5 1"x8" 16'-3" S

Sg 16 4"x8" 8'-6" B

S3 4 2"x8" 9'-3" B

S4 8 4"x8" 6'-6" B

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BENT NO. 1 or 14		Plain bar-thread 9"		on each end	
TREATED LUMBER					
NO.	DESCRIPTION	MBM	STRUCTURAL STEEL	STRUCTURAL STEEL	
1	CAP 1X12 XING 180		HARDWARE	DESCRIPTION	MBM
	CROSETT RAIL	2/	6 3/2" X 3/8" X 6' 4"	2/	6 3/2" X 3/8" X 6' 4"
NO.	DESCRIPTION	L.F.	61	2 16" X 40" X 11" (Savg)	61
4	OOD. PILLS	62	2 18" X 47" X 11" (Savg)	62	2 18" X 47" X 11" (Savg)
HARDWARE					
NO.	DESCRIPTION	LBs.	HARDWARE	HARDWARE	
8	5/8" C" lag screws	4.4	NO.	DESCRIPTION	LBs.
8	9" std. cut wash.	0.6	24	3/8" X 8" lag screws	25.0
			12	1" std. hex. nuts	3.4
			21	20" std. cut washers	3.9
STRUCTURAL STEEL					
MARK	NO. DESCRIPTION	20	1" std. hex. nuts	4.4	4.0
	2 5/8" X 14" X 6" R	4	3/8" X 24" std. hex. bolts	2.2	4.3
P2	4 file cap Assembly	4	3/8" X 18" "	2.0	4.0
	C 1 1/4" X 3/8" X 1.31		3/8" X 18" "	2.0	4.0
Notes not include screw heads					
				hex. heads & nuts.	

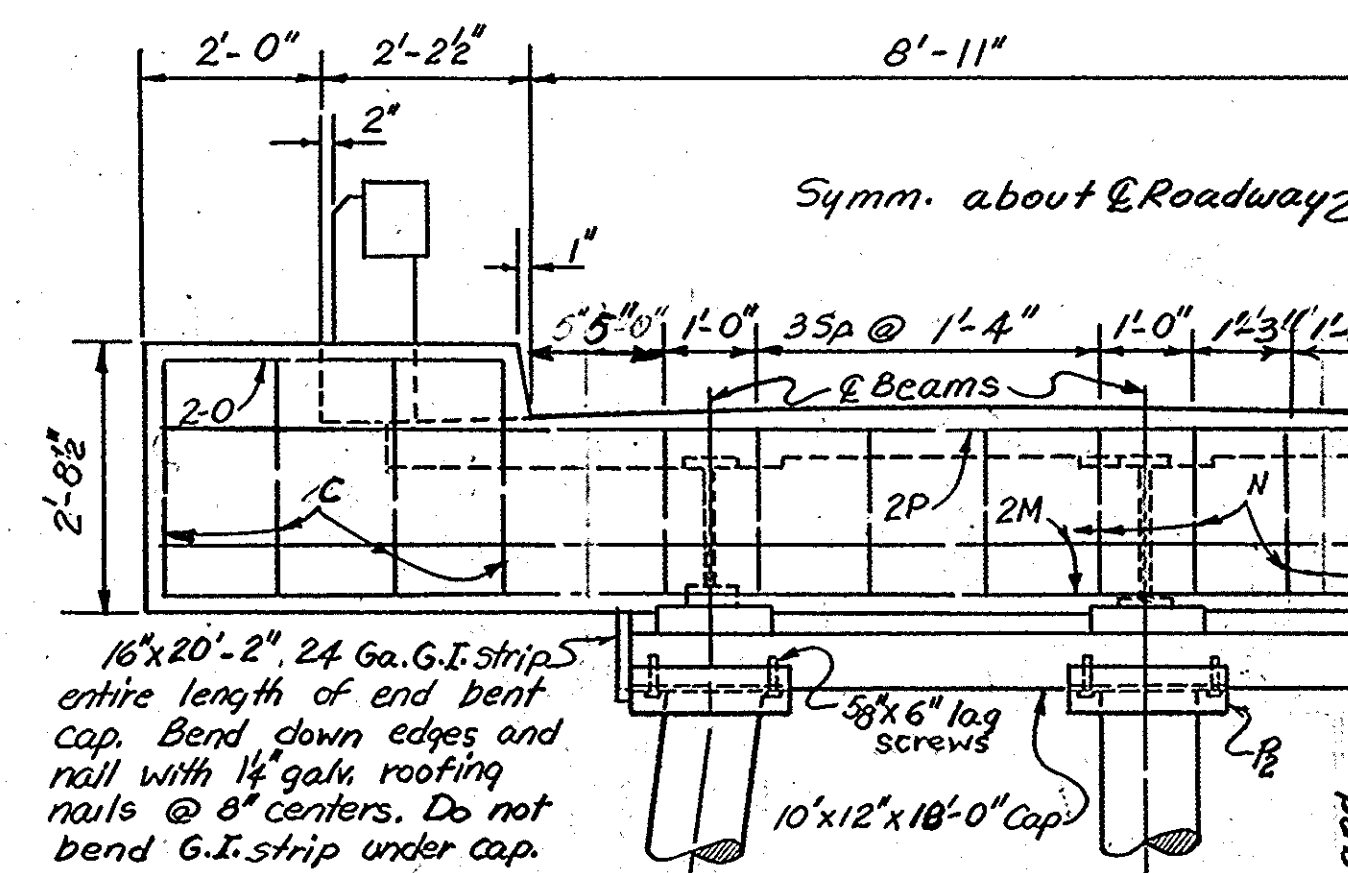
QUAN. FOR BENT UP BAR	QUAN. FOR 50' END SPAN	QUAN. FOR 50' INT. SPAN
TREATED LBR. - 0.180 HBM	CONCRETE - 28.6 C.Y.	CONCRETE - 27.6 C.Y.
HARDWARE - 5.0 LBS	REINF. ST. - 6,046 LBS.	REINF. STEEL 5,898 LBS.
STRUC. STEEL - 498 LBS	HARDWARE - 39.9 LBS	HARDWARE - 43.5 LBS
CREO. PILING - SEE SUMMARY	New Shr. Steel 51 LBS	New Shr. Steel 51 LBS

BENDING DETAILS FOR REINFORCING STEEL

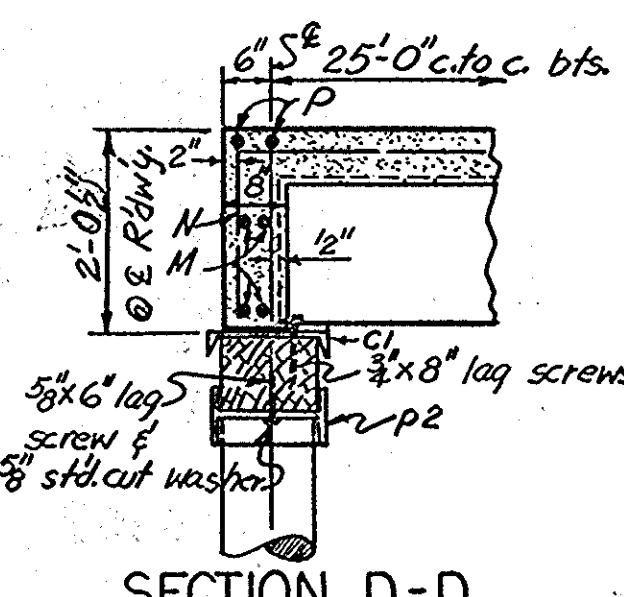
The diagram illustrates the bending details for reinforcing steel, showing various components and their dimensions:

- Component G₁:** A rectangular section with a width of 10" and a height of 6".
- Component G₂:** A rectangular section with a width of 1'-10" and a height of 1'-6". It includes a 1/2" dimension at the bottom.
- Component C:** A rectangular section with a width of 6" and a height of 2'-4".
- Component H:** A vertical section with a width of 6'-4" and a height of 2'-3". It includes a 3" dimension at the top and a 3" dimension at the bottom.
- Component I & K:** A rectangular section with a width of 7" and a height of 1'-3". It includes a 3" dimension at the top.
- Component J:** A rectangular section with a width of 5" and a height of 1'-6". It includes a 1/8" dimension at the top and a 1/16" dimension at the bottom.
- Component K:** A rectangular section with a width of 7" and a height of 1'-3". It includes a 1/2" dimension at the top and a 1/2" dimension at the bottom.
- Component N:** A rectangular section with a width of 1'-8" and a height of 1'-6". It includes a 1/8" dimension at the top and a 1/16" dimension at the bottom.
- Component S:** A rectangular section with a width of 1'-10" and a height of 1'-6". It includes a 1/2" dimension at the top and a 1/2" dimension at the bottom.
- Component S₁ & S₂:** A rectangular section with a width of 2'-0" and a height of 2'-0". It includes a 1/2" dimension at the top and a 1/2" dimension at the bottom.
- Component S₂ & S₃:** A rectangular section with a width of 2'-0" and a height of 2'-0". It includes a 1/2" dimension at the top and a 1/2" dimension at the bottom.
- Component S₁ & S₂ & S₃:** A rectangular section with a width of 2'-0" and a height of 2'-0". It includes a 1/2" dimension at the top and a 1/2" dimension at the bottom.
- Component S₁ & S₂ & S₃ & S₄:** A rectangular section with a width of 2'-0" and a height of 2'-0". It includes a 1/2" dimension at the top and a 1/2" dimension at the bottom.

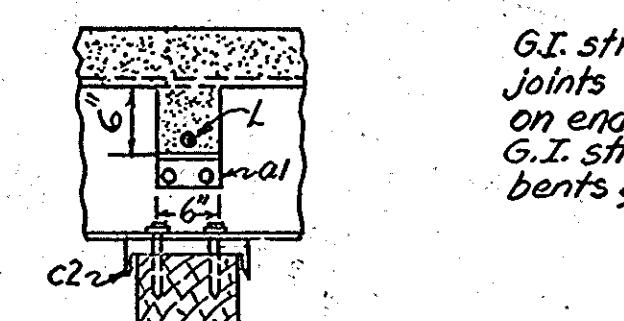
TABLE FOR DETERMINING LENGTHS OF SWAY BRACE											
HEIGHT "H"	4'	6'	8'	10'	12'	14'	16'	18'	20'	22'	24'
LEN BRACE "L"	13'-6"	13'-9"	14'-2"	14'-9"	15'-4"	16'-0"	16'-9"	17'-6"	18'-2"	18'-9"	19'-6"
"	5'	13'-10"	14'-6"	15'-11"	16'-3"	17'-1"	17'-6"	18'-6"	19'-10"	20'-4"	21'-0"
REV											
REV											
REV											
REV											
REVIEWED	G.K.B.										
	IN CHARGE										
QUAN.	GMP	G.K.B.	II-60	DOCKET NO	COUNTY	ROAD NO	DATE				
TR.	GMP	G.K.B.	II-60	44-326	UNION	16 & 63	11-6				
DR.	GMP	G.K.B.	II-60	APPROVED BY							
DES.				W.B. Crum		APPROVED BY					
	BY	CHKD	DATE	BRIDGE DESIGN & PLANS ENGINEER			BRIDGE ENGINEER				



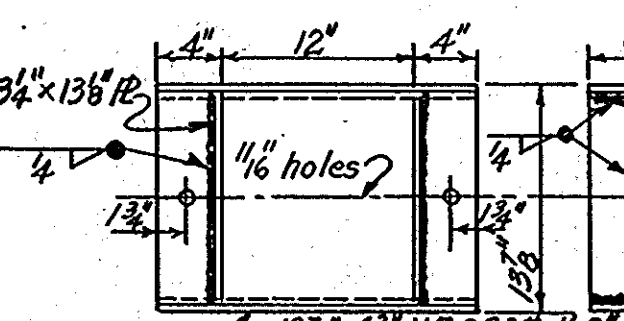
HALF END ELEVATION



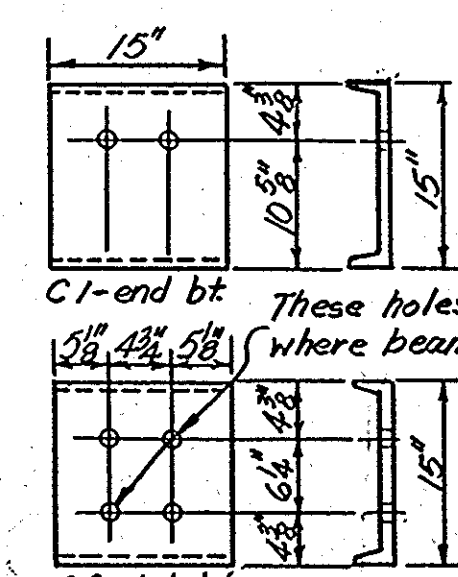
SECTION D-D



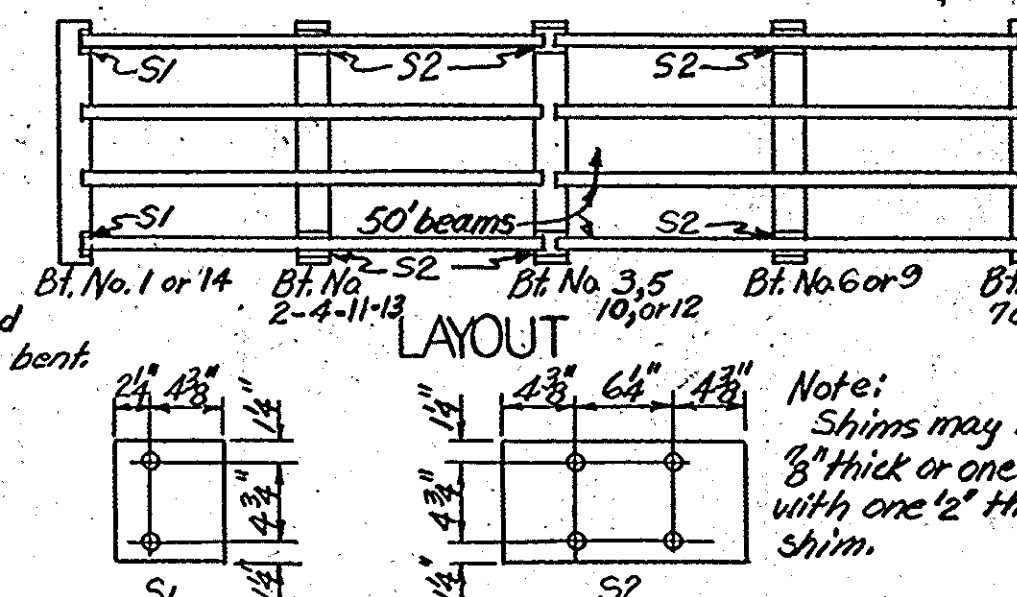
SECTION B-B



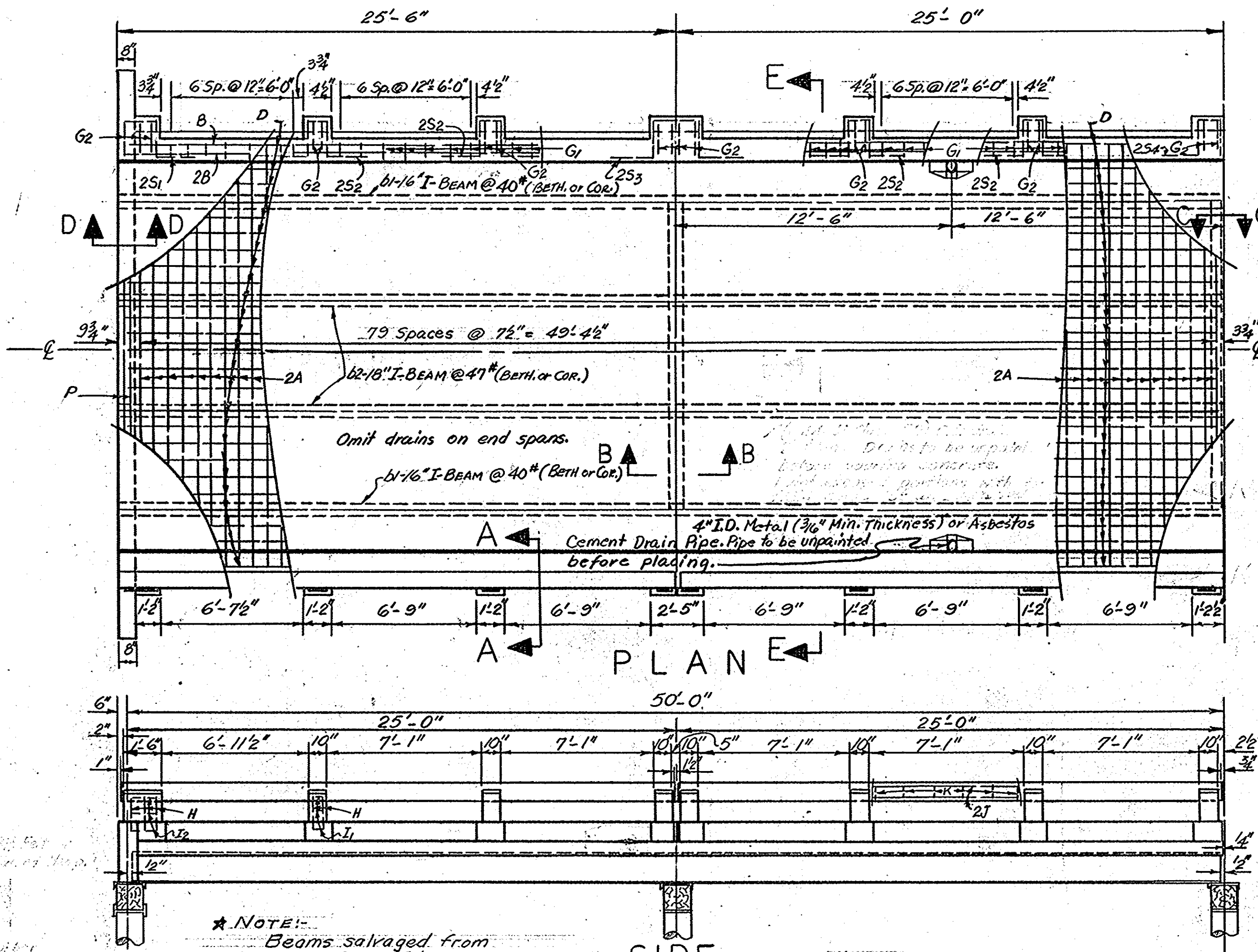
P₃ - PUFF CAPS



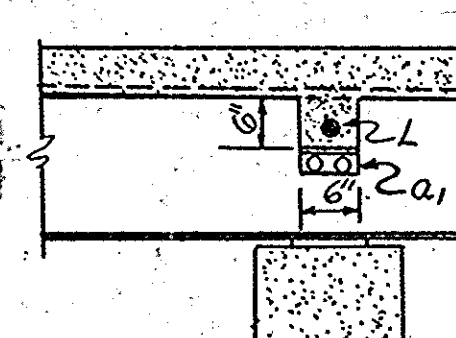
C2-Int. bt.
CHANNEL DETAIL 9



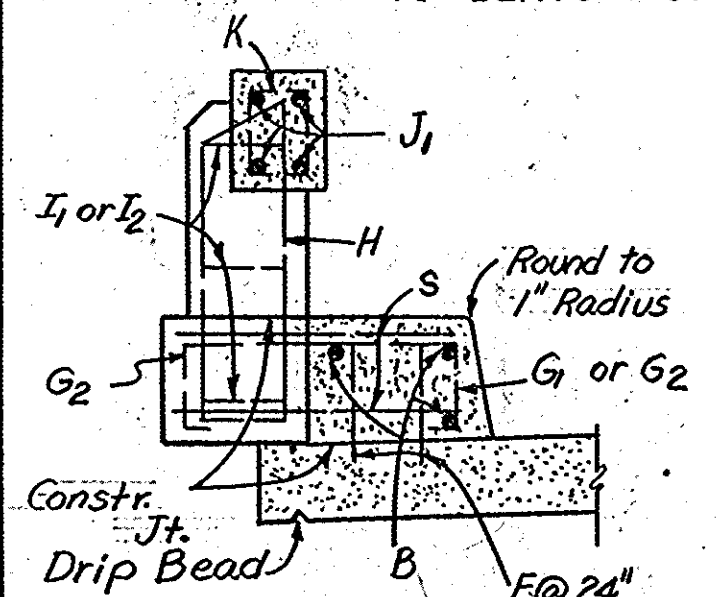
SHIM DETAILS S



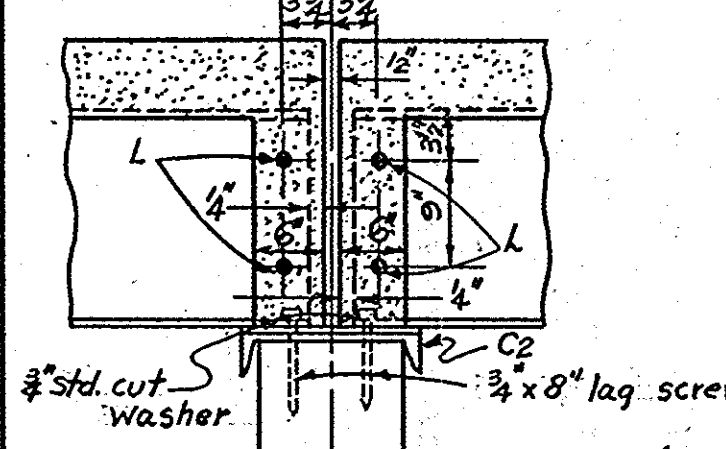
SIDE
ELEVATION



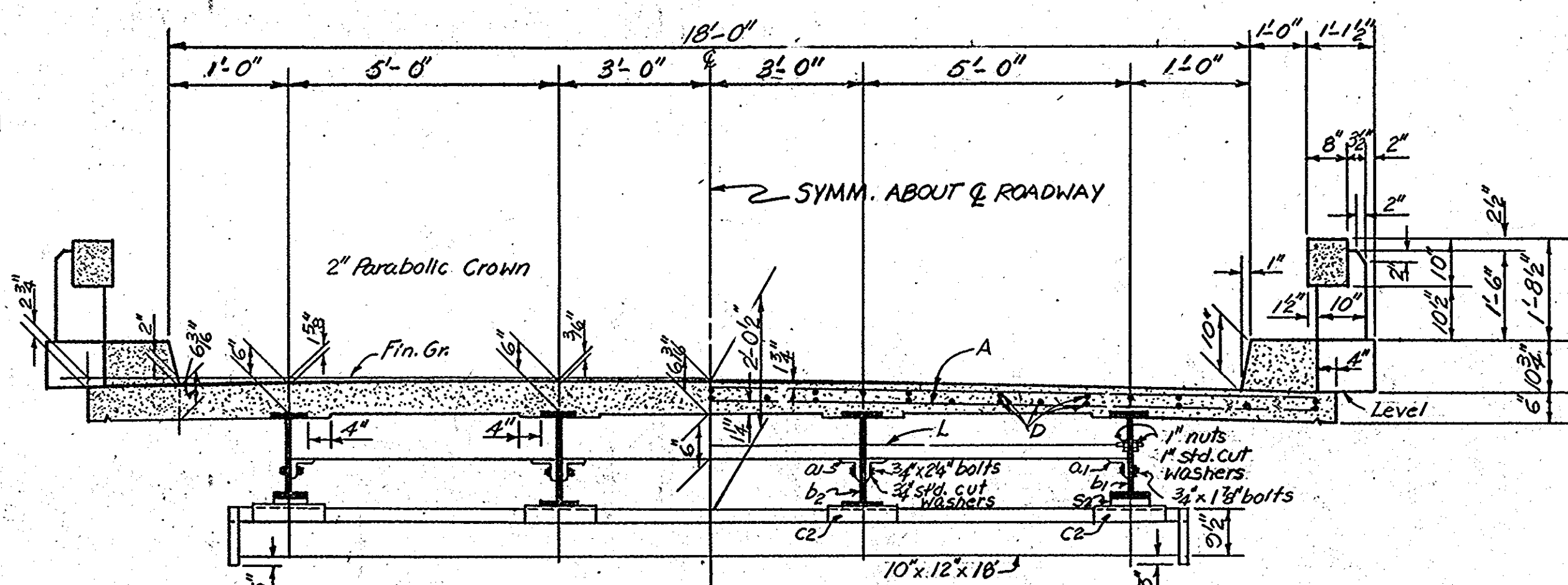
SECTION OF SPAN
AT BENTS 7 or 8



SECTION A-A
SHOWING REINFORCING STEEL

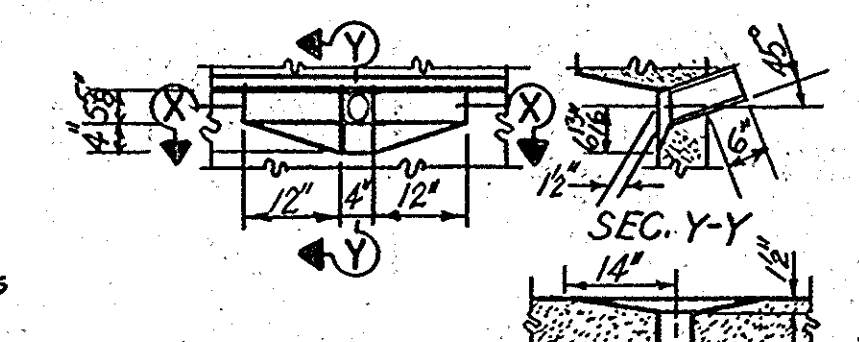


SECTION C-C

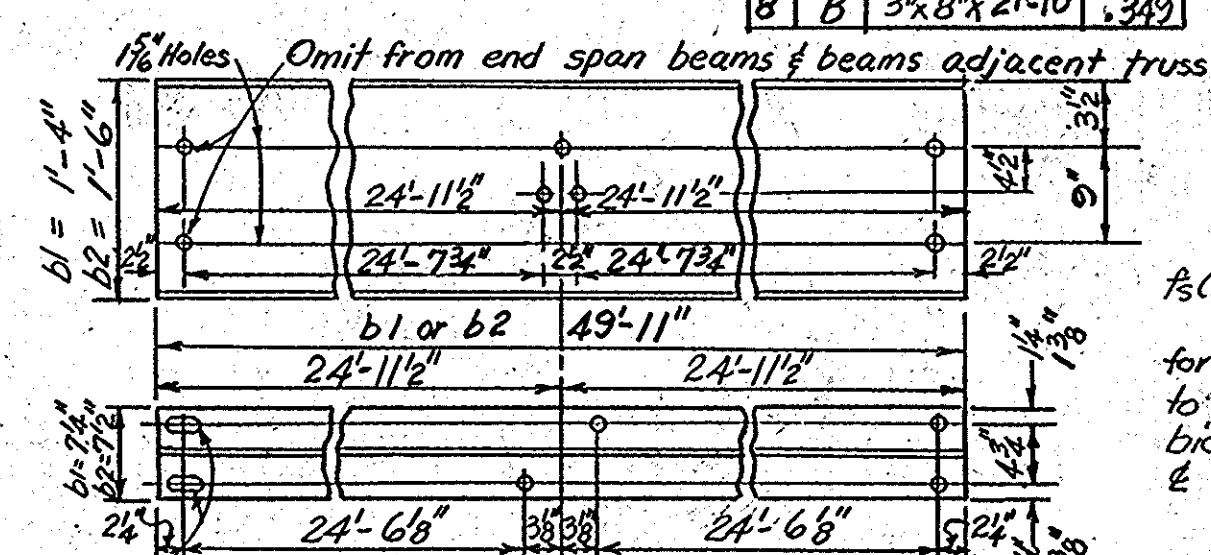


SECTION E-E

SHIM TABLE			
STRUCTURAL STEEL			
MARK	NO.	DESCRIPTION	YR. LBS.
S1	4	3" x 74 x 65	11.93 48
S2	20	3" x 74 x 15	27.00 540
		TOTAL	



DRAIN DETAILS



MAIN BEAM DETAILS

SWAY BRACES			
Treated Lumber			
No.	BRACE	DESCRIPTION	M.B.M.
4	A	3"x8"x15'-6"	.124
4	B	3"x8"x17'-9"	.142
8	A	3"x8"x17'-0"	.272
8	B	3"x8"x20'-0"	.320
8	A	3"x8"x18'-2"	.291
8	B	3"x8"x21'-10"	.349

Notes ~

Each pile shall be driven to a minimum bearing of 18 tons.

The contractor shall be responsible for proper lengths of sway braces. Lengths given are for basis of bids only. Quantities of treated lumber and hardware are to be adjusted accordingly.

All concrete shall be class A. Diaphragms, curbs, brackets, and wings shall be poured monolithically with slab. All reinforcing steel except L-bars shall be deformed.

All exposed edges shall be chamfered $\frac{3}{4}$ " unless otherwise shown.
G.I. strips shall comply with A.S.T.M. spec A 93-58T

Bent caps shall be sized to a constant depth of 9 1/2".
Design Data: A.A.S.H.O. spec. 1944, H15-44 loading.

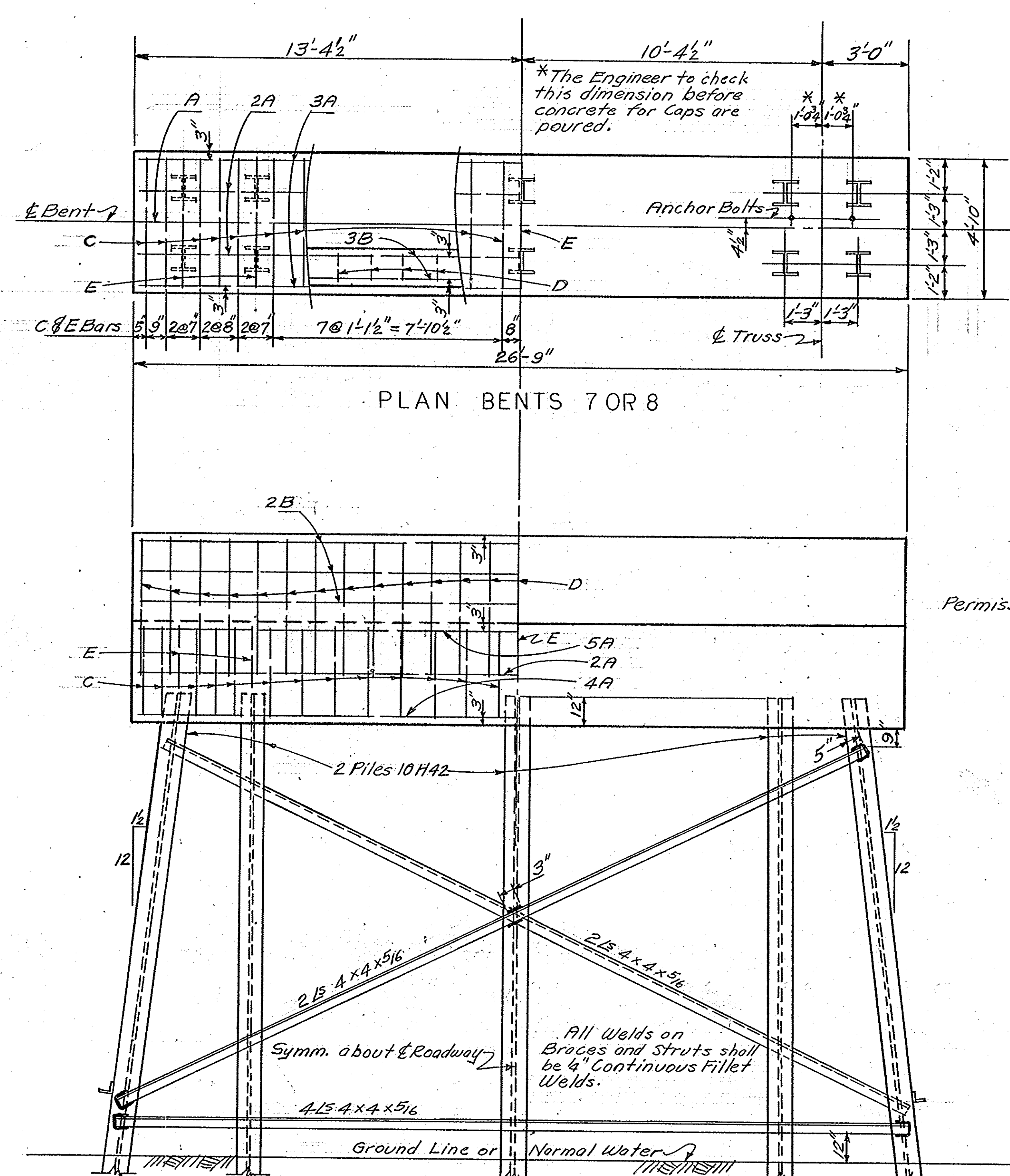
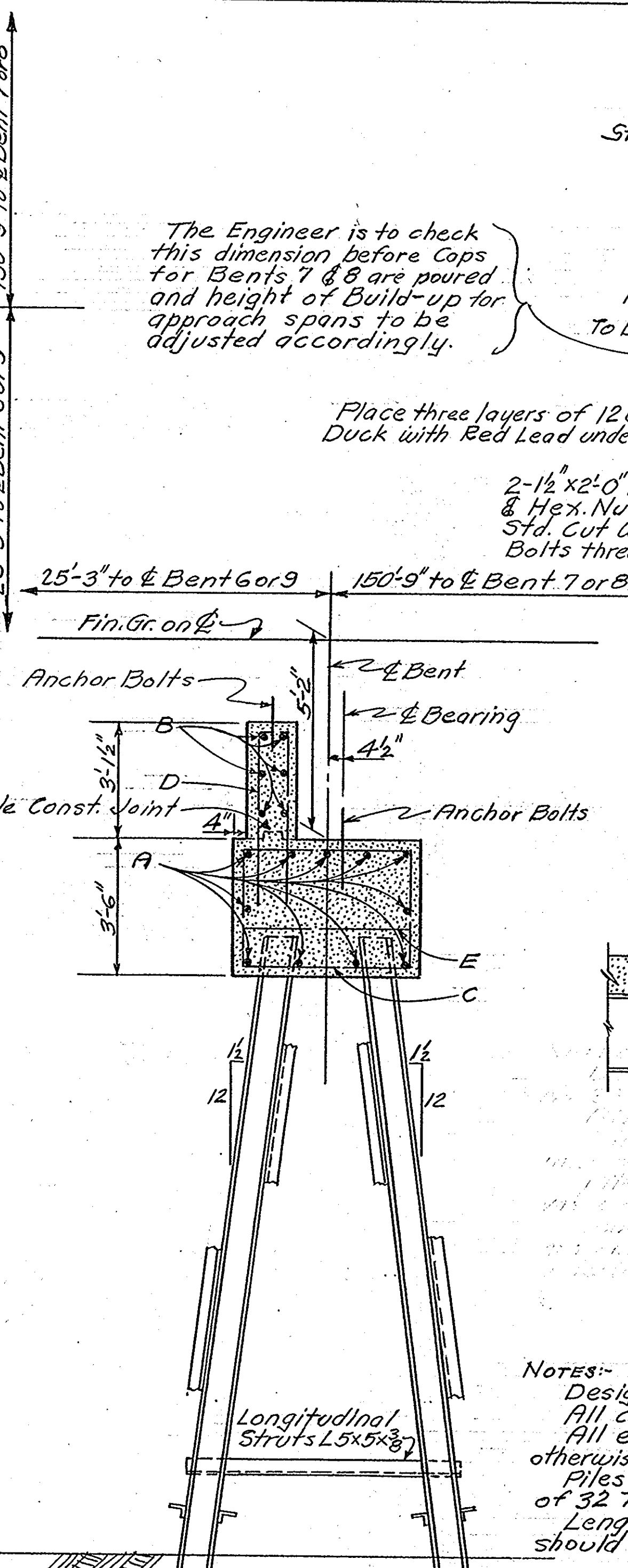
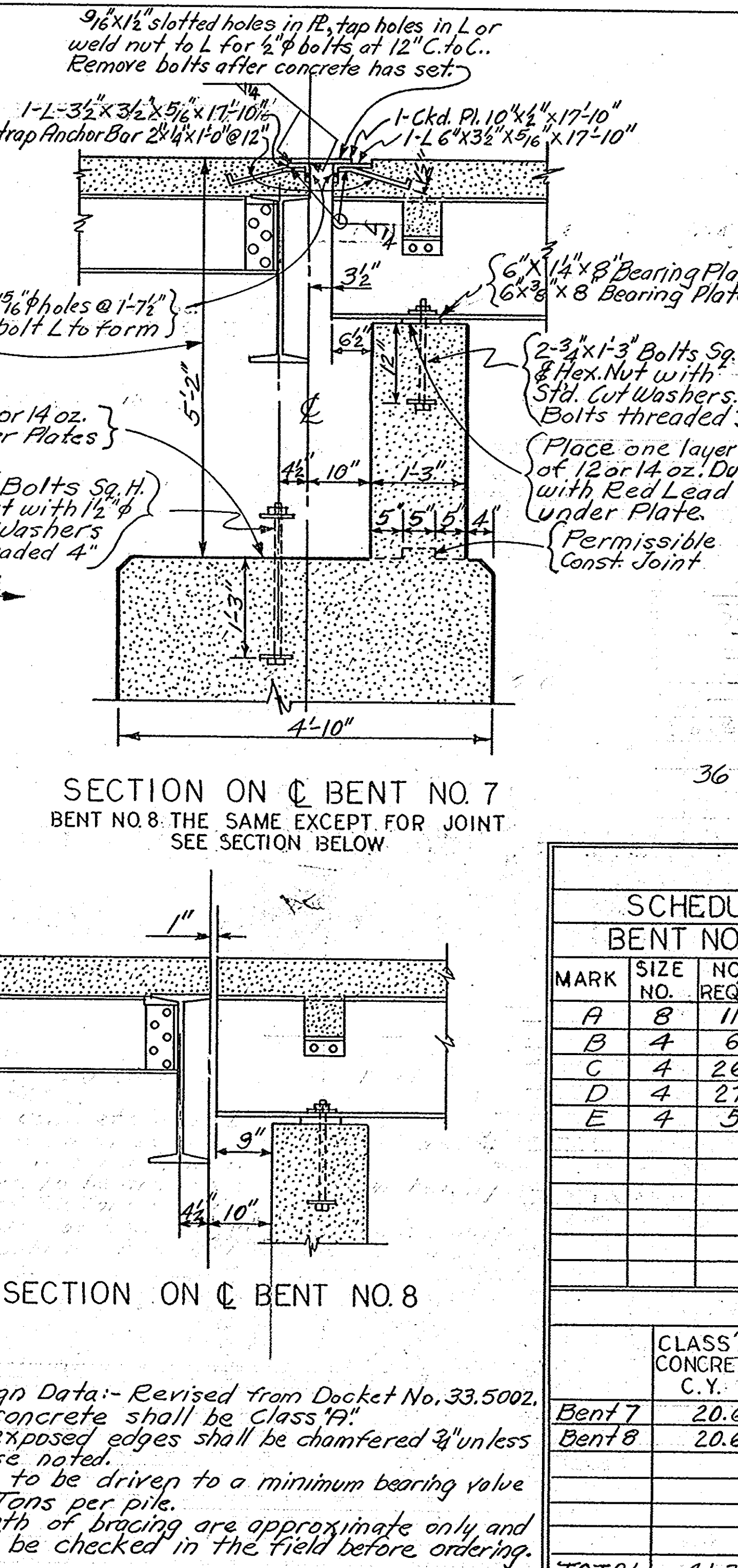
Slab depth shall be increased between bents to compensate dead load deflection. All costs due to this increase in slab depth shall be included in the unit price

All holes shall be punched $\frac{13}{16}$ " dia unless otherwise noted.

All structural steel shall arrive in the field unpainted. Paint shall be applied in accordance with sec. 79 of the spec. and that shop coat shall be applied in the field, and those

which will be inaccessible after erection or after
concrete, shall be painted with 3 coats beforehand.

FED. RD. DIV. NO.	STATE	COUNTY	DOCKET NO.	ROAD NO.	SHEET NO.	TOTAL SHEETS
3	S.C.	UNION	44.326	16.63	8	10



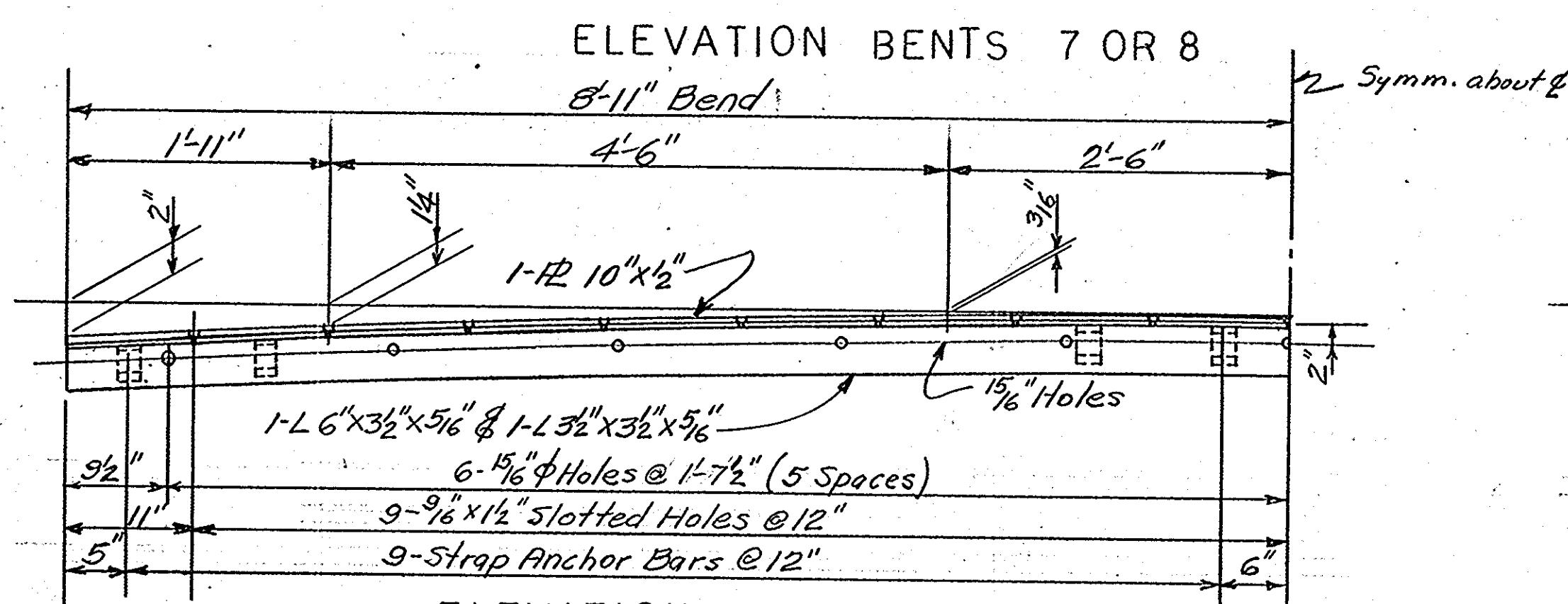
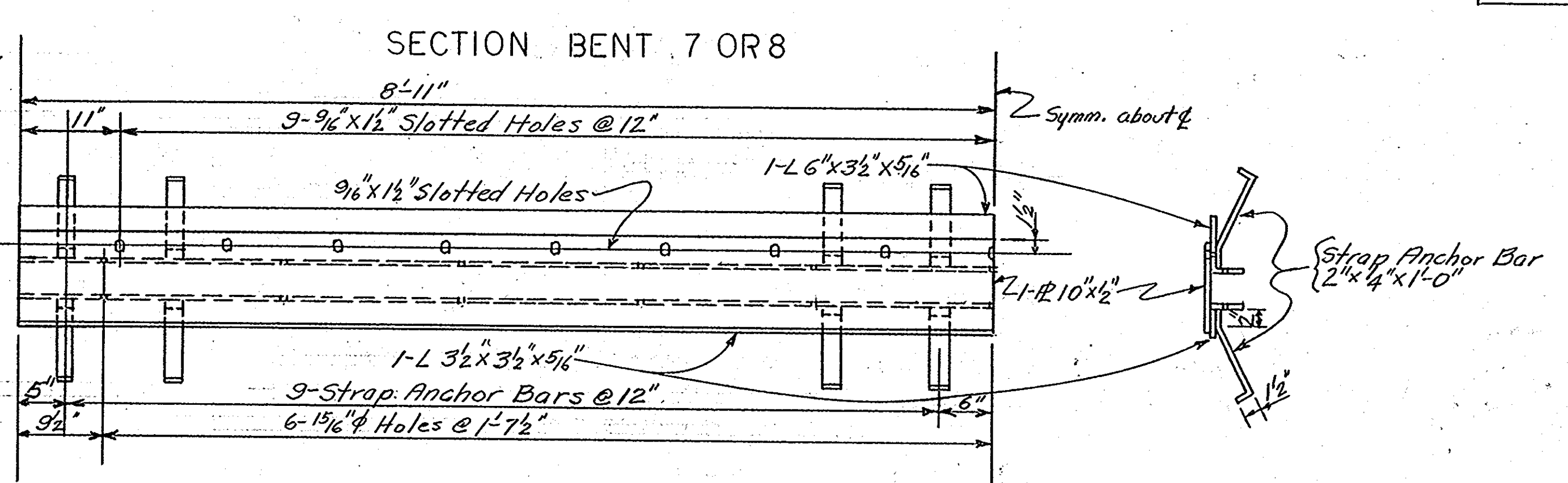
HARDWARE				
BENT NO. 7 OR 8				
NO.	DESCRIPTION	SIZE	LBS.	
8	Bolts Sp. H. & Hex. N.	3/4\" x 1 1/2\"	17.44	
16	Std. Cut Washers	3/4\"	1.78	
4	Bolts Sp. H. & Hex. N.	1 1/2\" x 2\"	57.87	
8	Std. Cut Washers	1 1/2\"	3.12	
TOTAL			80.2	

STRUCTURAL STEEL			
BENT NO. 7		BENT NO. 8	
DESCRIPTION	LBS.	DESCRIPTION	LBS.
Sway Bracing - 100'	820	Sway Bracing - 100'	820
Sash Bracing - 100'	820	Sash Bracing - 100'	820
Long. Bracing - 15'	184	Long. Bracing - 15'	184
2-PL-6\" x 1/4\" x 0'-8\"	34	2-PL-6\" x 1/4\" x 0'-8\"	34
2-PL-6\" x 3/8\" x 0'-8\"	10	2-PL-6\" x 3/8\" x 0'-8\"	10
1-PL-10\" x 1/2\" x 17'-10\"	303		
1-L-3 1/2\" x 3 1/2\" x 5 1/8\" x 17'-10\"	128		
1-L-3 1/2\" x 6\" x 5 1/8\" x 17'-10\"	177		
10 Strap Anchor Bars	31		
TOTAL		2,507	1,868

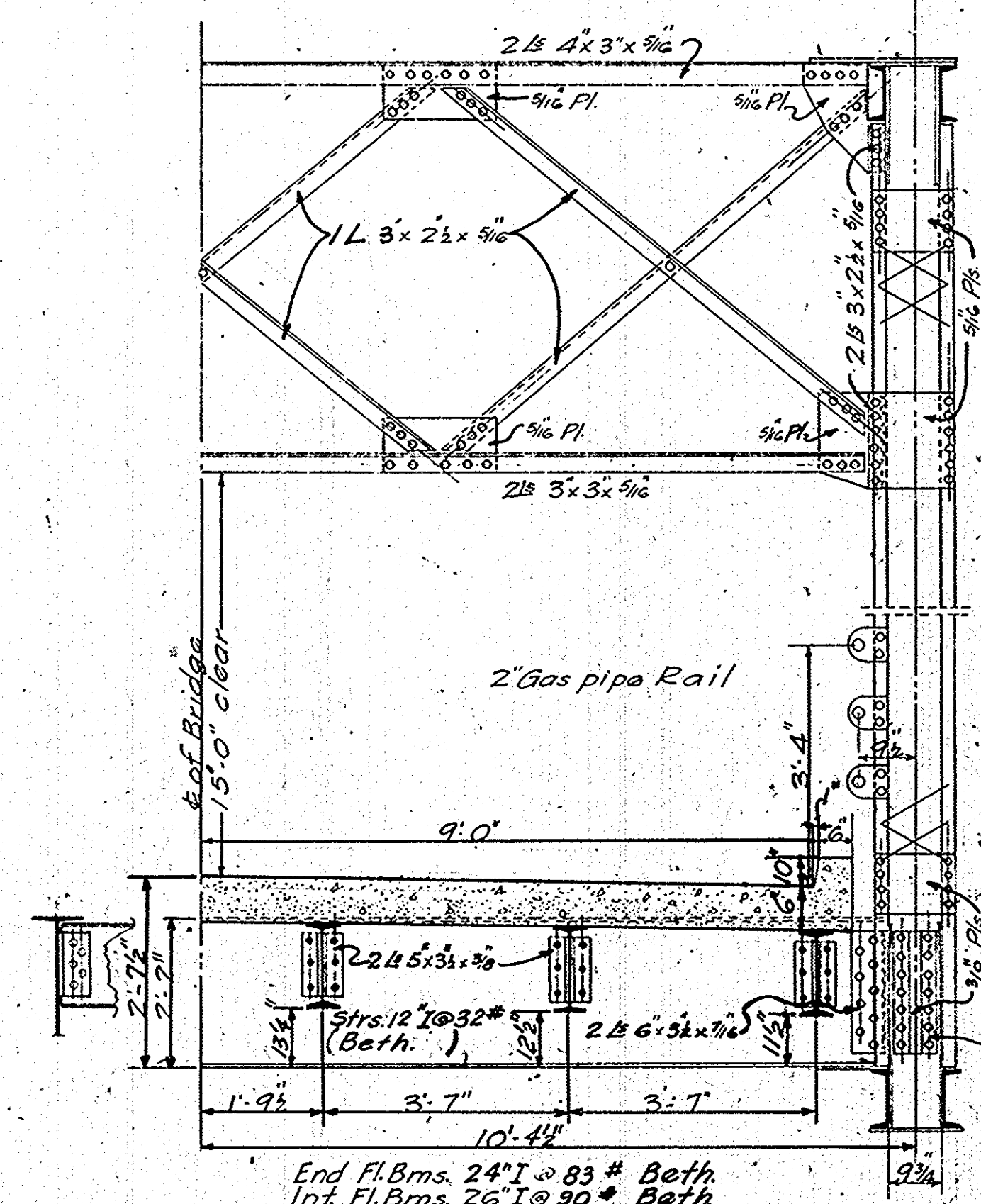
REINFORCING STEEL				
BENT NO. 7 OR 8				
MARK	SIZE	NO. REQD.	LENGTH	D
A	8	11	26'-3\"	S
B	4	6	26'-3\"	S
C	4	26	16'-2\"	B
D	4	27	10'-5\"	B
E	4	5	14'-1\"	B

SUMMARY OF QUANTITIES					
	CLASS A CONCRETE C.Y.	REINF. STEEL LBS.	STRUCT. STEEL LBS.	HARDWARE LBS.	10\" @ 42\" H-PIILING L.F.
Bent 7	20.6	1,392	2,507	80	See Below
Bent 8	20.6	1,392	1,868	80	
TOTAL	41.2	2,784	4,375	160	800

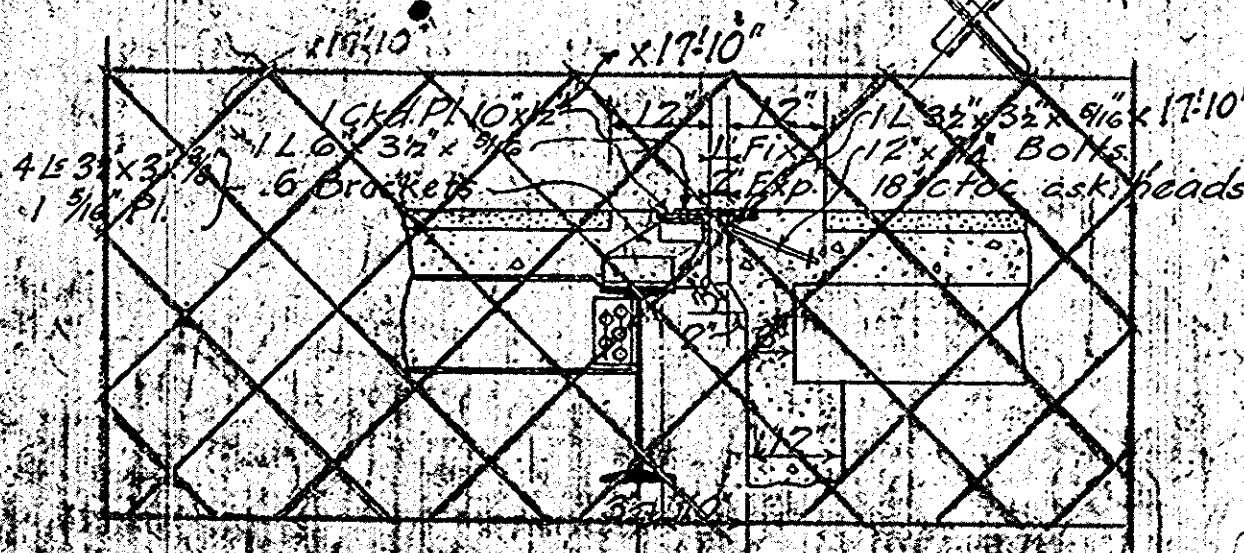
NOTES:-
Design Data:- Revised from Docket No. 33.5002.
All concrete shall be Class "A".
All exposed edges shall be chamfered 3/4\" unless otherwise noted.
Piles to be driven to a minimum bearing value of 32 Tons per pile.
Length of bracing are approximate only and should be checked in the field before ordering.



REV.		S.C. STATE HIGHWAY DEPARTMENT			
REV.		BRIDGE DIVISION			
REV.		COLUMBIA S.C.			
REV.		DETAILS - BENTS 7 & 8 AND			
REV.		EXPANSION DEVICE			
REV.		FOR BRIDGE OVER			
REV.		TYGER RIVER			
REVIEWED	G.K.B.	DOCKET NO.	COUNTY	ROAD NO.	DATE
QUAN.	G.K.B. 6m.P. 12-60	44.326	UNION	16.63	12-60
TR.	G.K.B. 6m.P. 12-60	APPROVED BY			
DR.	G.K.B. 6m.P. 12-60	APPROVED BY			
DES.	42.5002	APPROVED BY			
BY	CHKDATE	BRIDGE DESIGN & PLANS ENGINEER			
		BRIDGE ENGINEER			



SC. STATE HIGHWAY DEPARTMENT
COLUMBIA, S.C.
DETAILED DESIGN
150 FT. THRU RIVETED TRUSS
ROADWAY 18'-0" SCALE 1/4" = 1'-0"
DOCKET NO. 44326 COUNTY UNION
CORRECTED *[Signature]*
APPROVED *[Signature]*
BRIDGE ENGINEER



Estimated Quantities.

Structural Steel	148,000	lbs.
Reinforcing Steel	7,687	lbs.
Concrete A	58.1	cuyds.
Paving		

Adapted by: TVGM:PA=12-60
Checked by: GK:PA=12-60

CROSS SECTIONS
Scale 1 inch = 5 feet

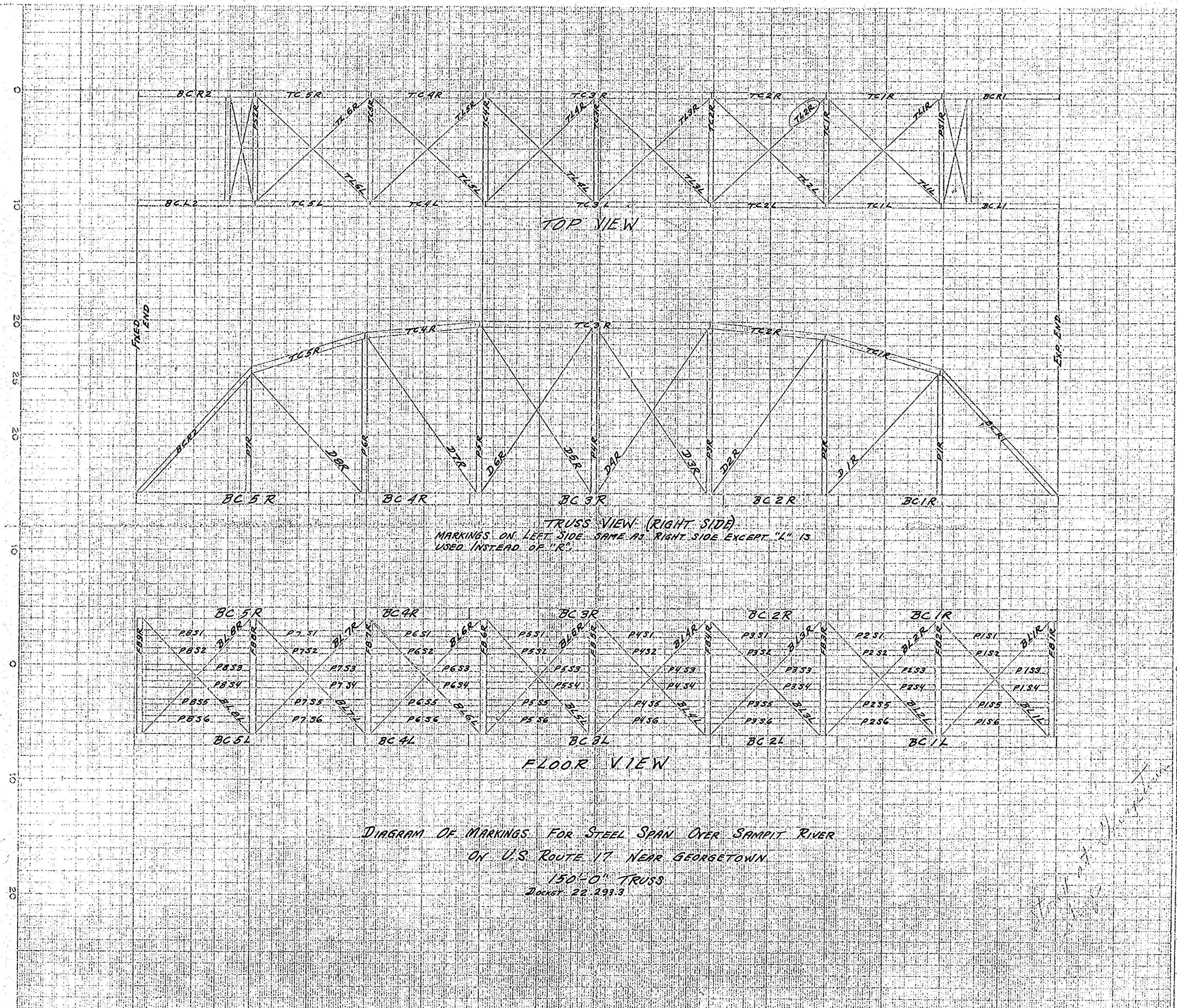


DIAGRAM OF MARKINGS FOR STEEL SPAN OVER SAMPIT RIVER
ON U.S. ROUTE 17 NEAR GEORGETOWN
150'-0" TRUSS
DOCKET 22 293.3

FILED IN
DIV. NO. 3
S. C.
COUNTY
SHEET NO.
PROJECT NO.
ROAD NO.
SHEET NO.

REV.		S.C. STATE HIGHWAY DEPARTMENT BRIDGE DIVISION COLUMBIA, S.C.			
REV.		MARKING DIAGRAM			
REV.		150 FT. TRUSS FROM SAMPIT RIVER FOR BRIDGE OVER TYGER RIVER			
REV.					
REVIEWED	G.H.B.	DOCKET NO. COUNTY ROAD NO. DATE			
IN CHARGE		44.326	UNION	16663	1-61
QUAN.		APPROVED BY			
TR.		BY CHKD DATE BR. DESIGN & PLANS ENGINEER			
DR.		APPROVED BY			
DES.		BRIDGE ENGINEER			