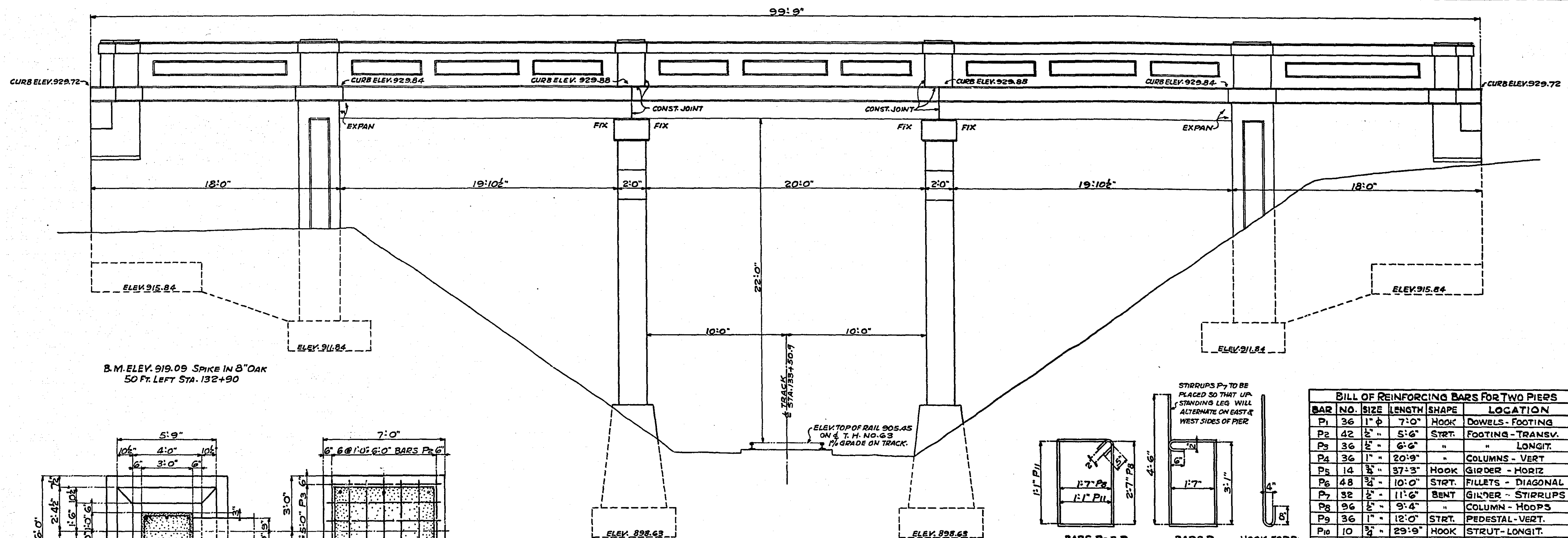
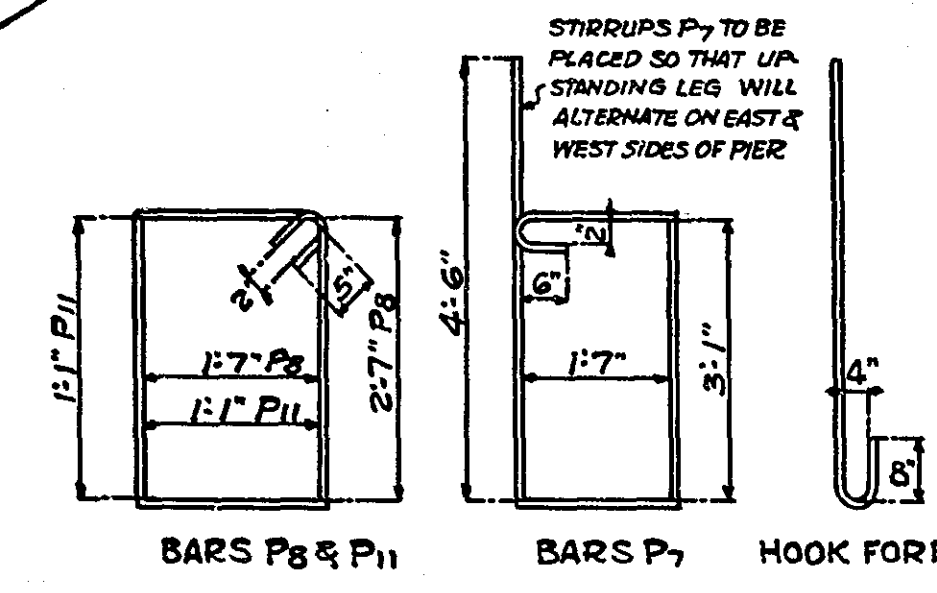
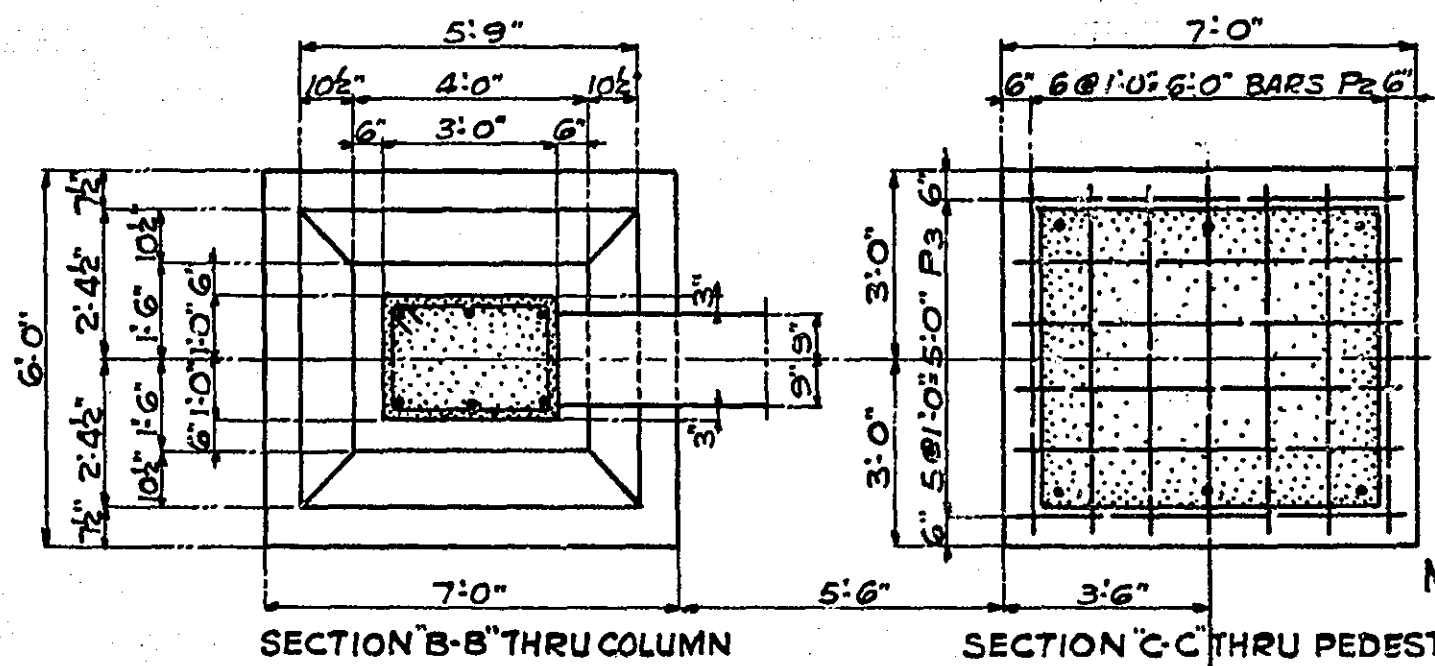


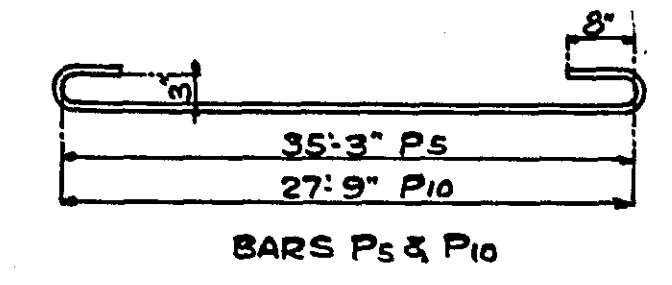
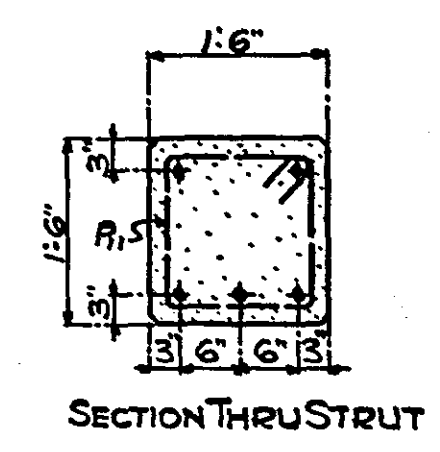
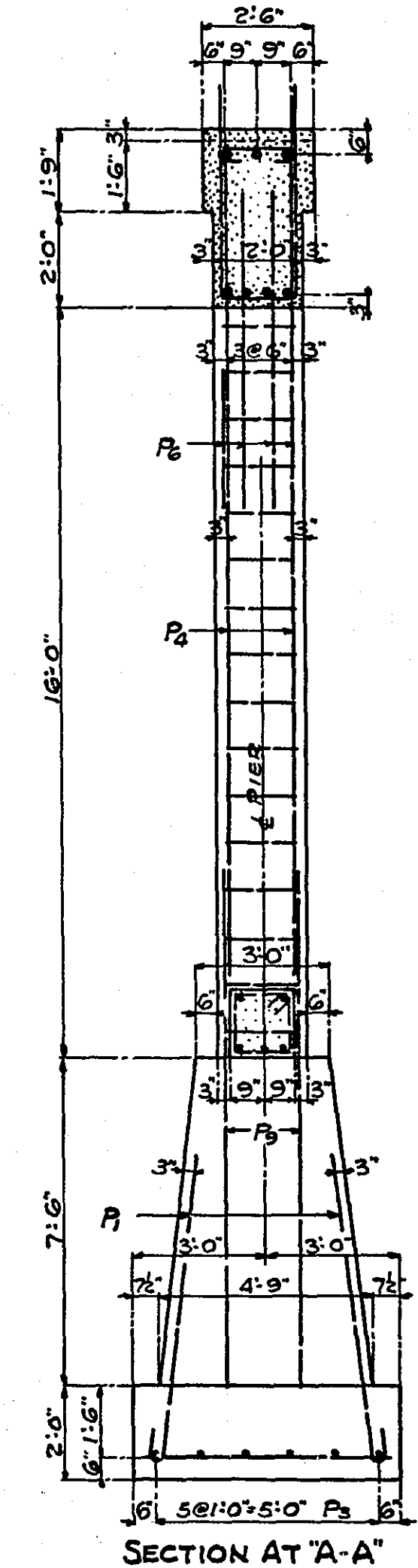
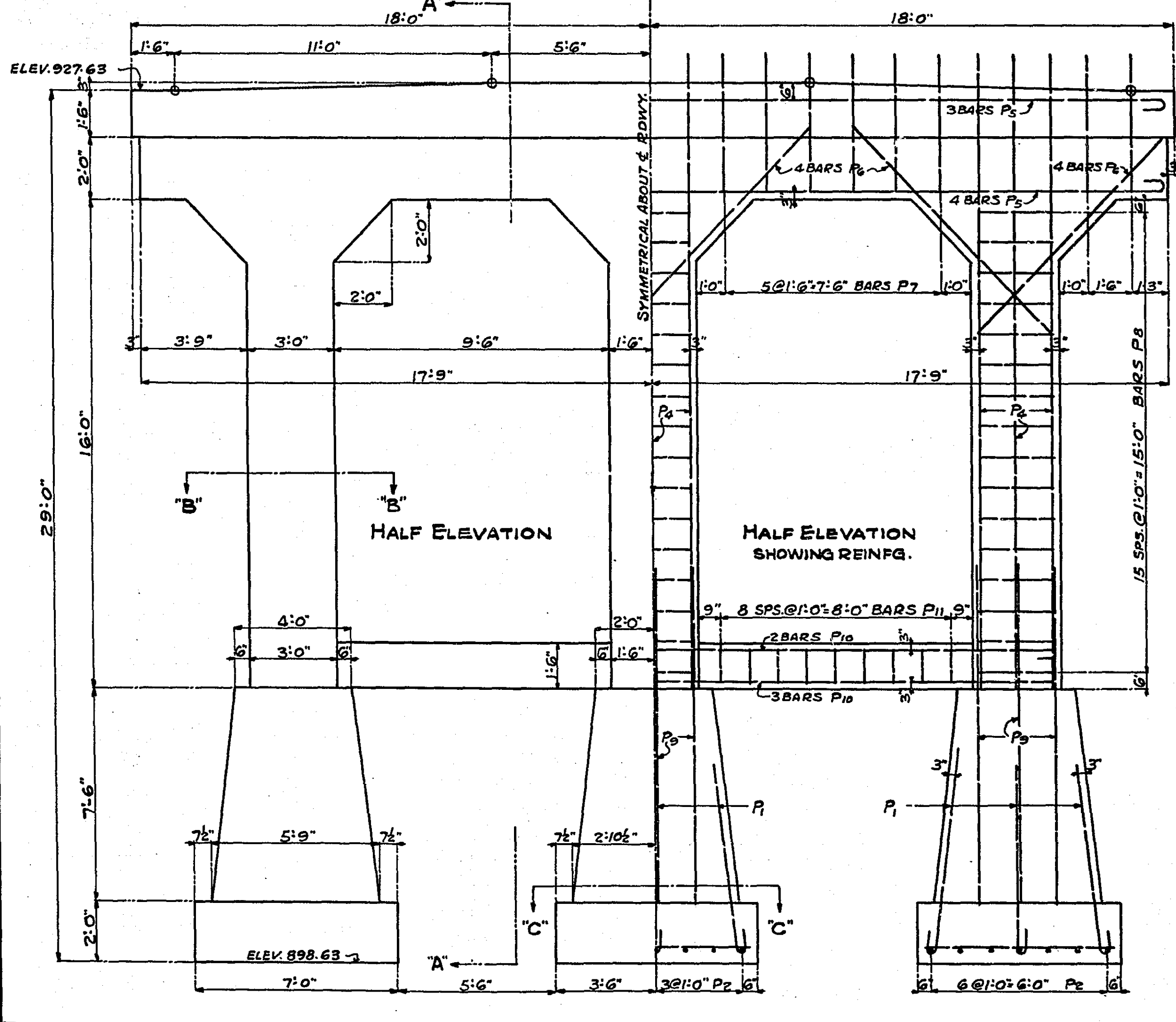


GENERAL ELEVATION

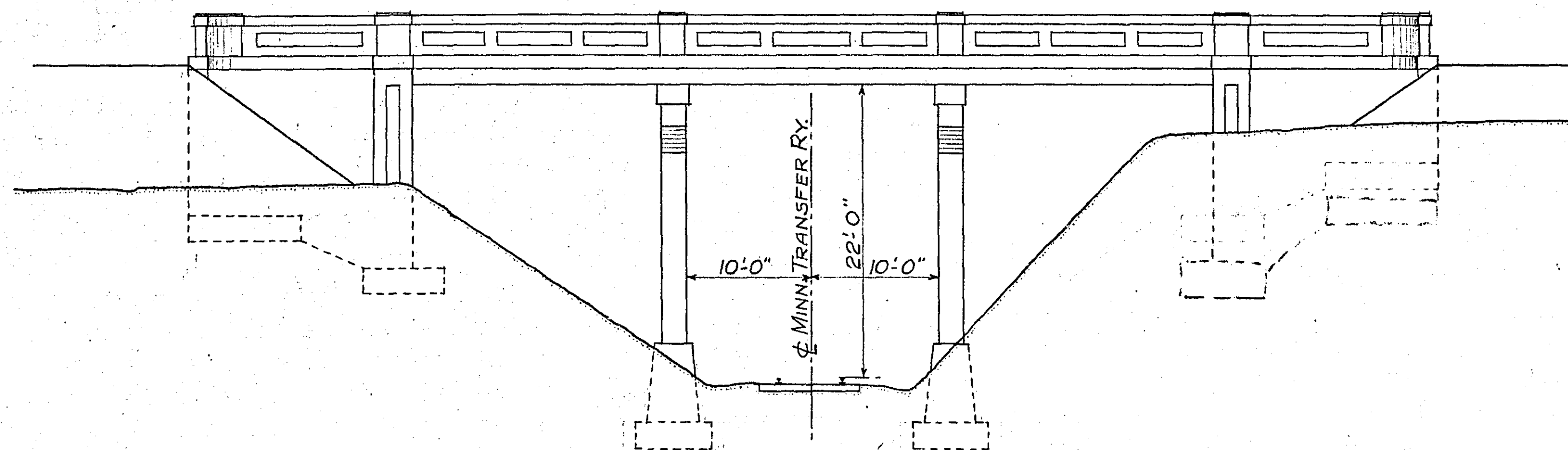


BILL OF REINFORCING BARS FOR TWO PIERS						
BAR NO.	SIZE	LENGTH	SHAPE	LOCATION		
P1	3/8"	7'-0"	HOOK	DOWELS - FOOTING		
P2	4/8"	5'-6"	STRT.	FOOTING - TRANSV.		
P3	3/8"	6'-6"	"	" LONGIT.		
P4	3/8"	20'-9"	"	COLUMNS - VERT.		
P5	1/2"	37'-3"	HOOK	GIRDER - HORIZ.		
P6	4/8"	10'-0"	STRT.	FILLETS - DIAGONAL		
P7	3/8"	11'-6"	BENT	GIRDER - STIRRUPS		
P8	3/8"	9'-4"	"	COLUMN - HOOPS		
P9	3/8"	12'-0"	STRT.	PEDESTAL - VERT.		
P10	1/2"	29'-9"	HOOK	STRUT - LONGIT.		
P11	3/8"	5'-4"	BENT	" STIRRUPS		
TOTAL REINFG. STEEL FOR TWO PIERS				70.55	LBS.	
" CONCRETE				98.5	C.Y.	

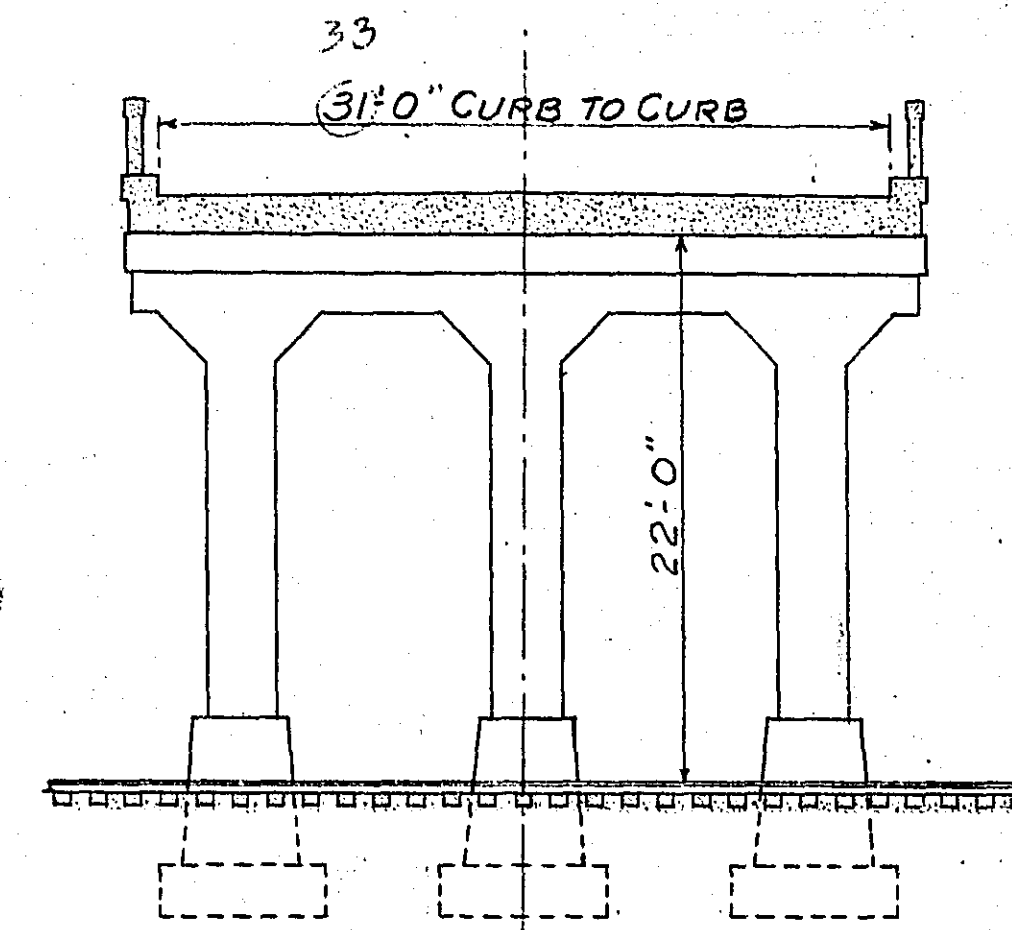
CONSTRUCTION NOTES:-
 CONCRETE MIX: CLASS 'D' CONC., SCREENED MATERIALS SAME AS FOR CLASS 'A' CONC.; MIXED 1 PART CEMENT, 2 PARTS SAND AND APPROXIMATELY 3 1/2 PARTS OF COARSE AGGREGATE; USE ING NOT LESS THAN 6.4 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
 ALL EDGES OF CONCRETE ABOVE TOP OF FOOTING TO BE FINISHED TO A 3/8" BEVEL.



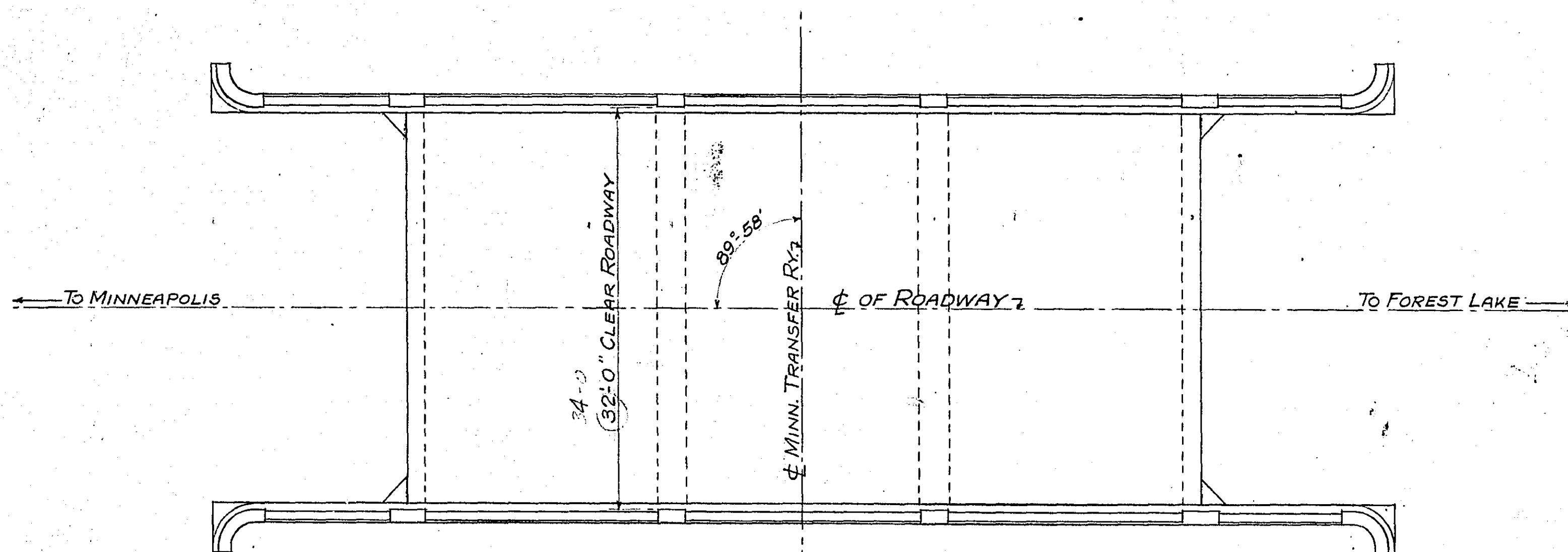
TRUNK HIGHWAY NO. 63
 STATE OF MINNESOTA
 DEPARTMENT OF HIGHWAYS
 GENERAL ELEVATION & DETAILS OF PIERS
 FOR THREE REINFD. CONC. SLABS SPANS - 34 FT. RDY.
 OVER MINNESOTA TRANSFER RY.
 IN THE VILLAGE OF NEW BRIGHTON
 BRIDGE NO. 4533
 SEC. 29 T. 30N. R. 23W.
 MOUNDSVIEW TWP. RAMSEY COUNTY
 APPROVED MAY 19, 1926
 MICROFILMED
 RAMSEY CO. ENGR.
 J. H. JOHNSON
 BRIDGE ENGR.



ELEVATION.



SECTION ON CL OF TRACK.

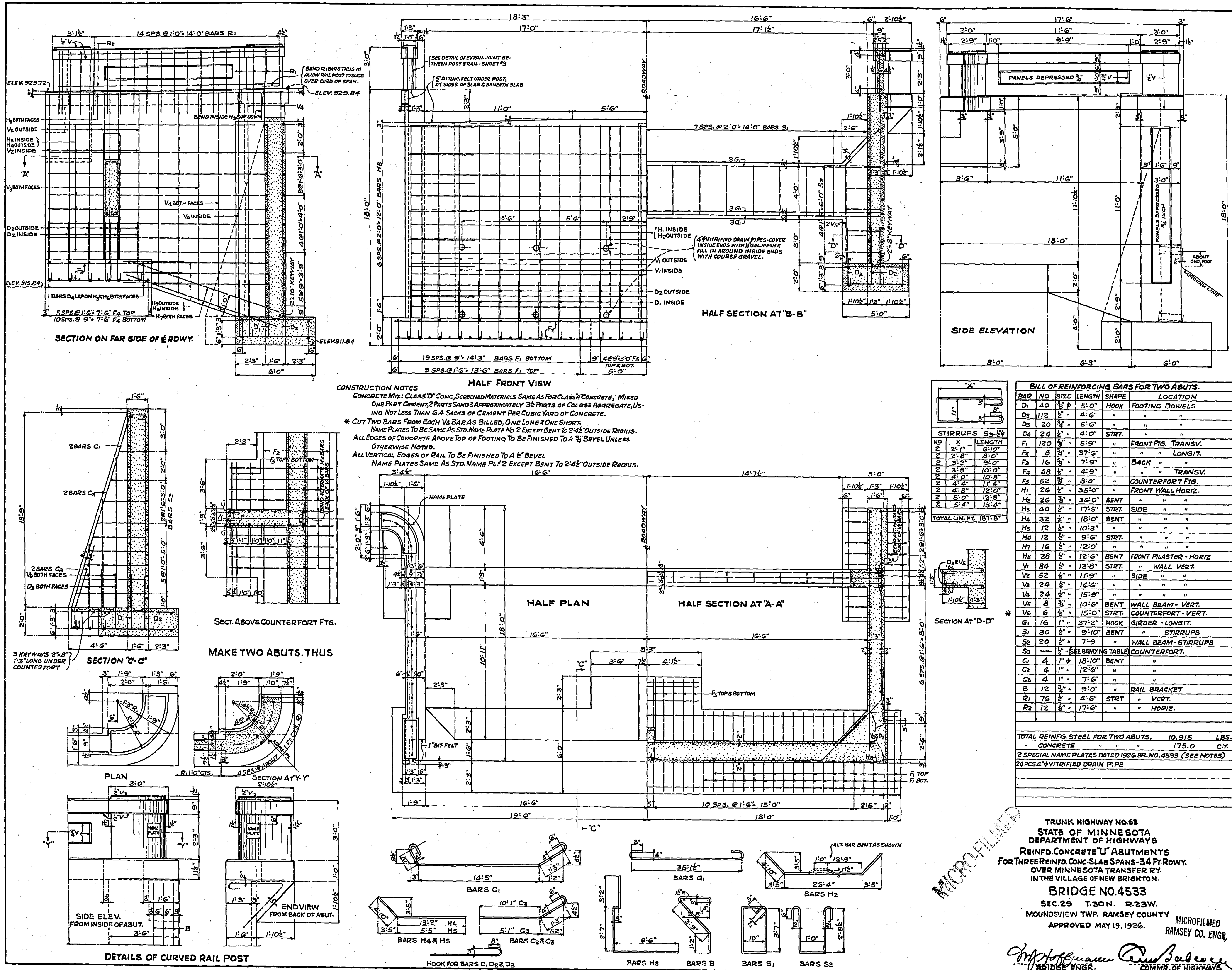


PLAN.

TRUNK HIGHWAY No. 63
 STATE OF MINNESOTA
 DEPARTMENT OF HIGHWAYS
 SKETCH OF PROPOSED BRIDGE
 3-20 FT. SLAB SPANS-32 FT. RDWY.
 OVER MINNESOTA TRANSFER RY.
 BRIDGE NO. 4533
 SEC. 29, T. 34 N., R. 23
 MOUNDS VIEW TWP. - RAMSEY CO.
 FEB. 25, 1926 SCALE 1 IN. = 10 FT.

MICROFILMED
 RAMSEY CO. ENGR.

4-121





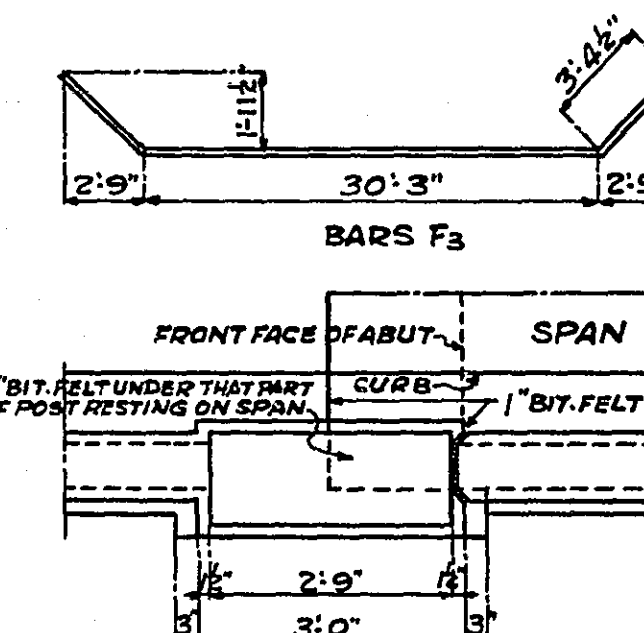
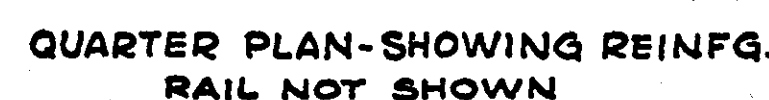
BILL OF REINFORCING BARS FOR THREE SPANS				
BAR	NO.	SIZE	LENGTH/SHAPE	LOCATION
F1	318	$\frac{3}{8}$ "	21'-10"	SLAB - LONGIT.
F2	35	$\frac{1}{2}$ "	35'-3"	" " TRANSV
F3	22	$\frac{1}{2}$ "	37'-0"	BENT. " "
R1	128	$\frac{1}{2}$ "	4'-6"	STRT. RAIL - VERT.
R2	30	$\frac{1}{2}$ "	21'-6"	" " & CURB - HORIZ.
T1	44	$\frac{1}{2}$ "	6'-0"	SLAB TIES OVER PIERS
TOTAL REINFG. STEEL FOR 3 SPANS				12785 LBS.
" CONCRETE " 3				140.0 C.Y.
18 PCS. 3" W.I. PIPE 1'-5 1/2" LONG				
2 PCS. BITUM. FELT 18" x 2" x 40'-0" BRIDGE SEAT - ABUT.				
4	"	"	9" x 2" x 1'-4 1/2" UNDER POSTS	"
4	"	"	9" x 2" x 1'-0"	" " SPAN
4	"	"	10" x 1" x 3'-2"	BET. POST & RAIL - ABUT.
4	"	"	18" x 1" x 2'-3"	BET. CURBS - SPAN &

CONSTRUCTION NOTES:-

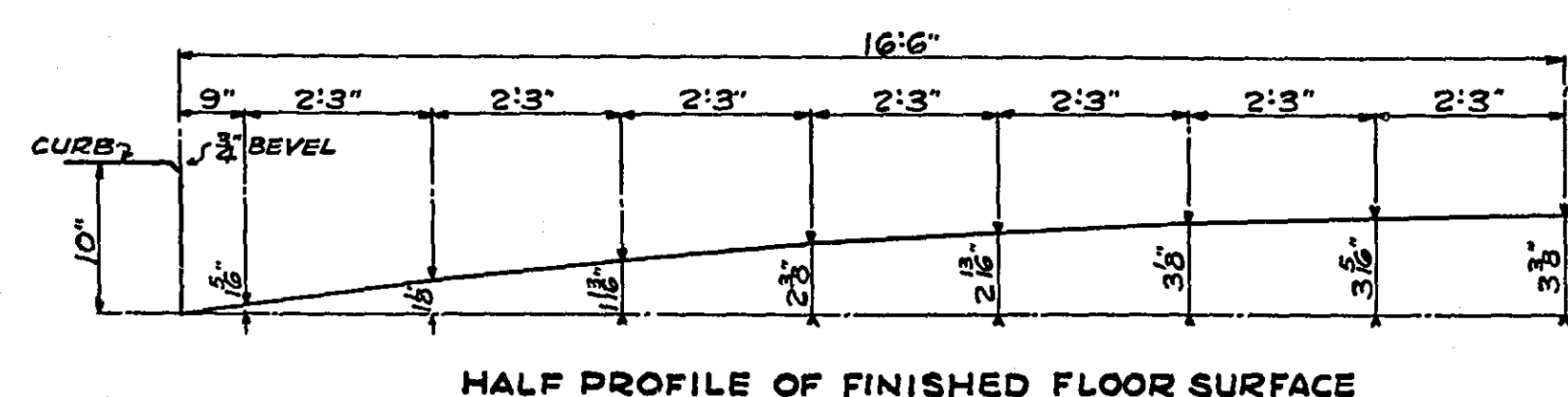
CONCRETE MIX: CLASS "D" CONC. SCREENED MATERIALS SAME AS FOR CLASS "A"
CONC. MIXED ONE PART CEMENT, 2 PARTS SAND AND APPROXIMATELY
3 1/2 PARTS OF COARSE AGGREGATE; USING NOT LESS THAN 6 1/2
SACKS OF CEMENT PER CUBIC YARD OF CONCRETE
ALL HORIZONTAL EDGES OF CONC. TO BE FINISHED TO A 3/4" BEVEL UNLESS OTHER-
WISE NOTED.

ALL VERTICAL EDGES TO BE FINISHED TO A $\frac{1}{2}$ " BEVEL.

SLAB SPANS TO BE BUILT WITH ONE HALF INCH OF CAMBER.



DETAIL OF RAIL POST OVER ABUT. PILASTER
SHOWING RECESSED EXPAN. JOINT BETWEEN
RAIL & RAIL POST-CONST. JOINT OVER PIERS
TO BE MADE SIMILAR.
BITUM. FELT TO BE CUT AND BENT TO FIT EXPAN.
JOINT & SECURED TO RECESSED END OF POST
WITH ROOFING COMPOUND.
TAR PAPER IN CONST. JOINTS TO BE HELD IN
PLACE IN SAME MANNER.



HALF PROFILE OF FINISHED FLOOR SURFACE

TRUNK HIGHWAY NO. 63
STATE OF MINNESOTA
DEPARTMENT OF HIGHWAYS
THREE 20 FT. REINFD. CONC. SLAB SPANS - 34 FT. RDWY.
OVER MINNESOTA TRANSFER RAILWAY
IN THE VILLAGE OF NEW BRIGHTON
BRIDGE NO. 4533

SEC. 29 T. 30 N. R. 23 W.
MOUNDVIEW TWP. RAMSEY COUNTY
APPROVED MAY 19, 1926.

Y
MICROFILMED
RAMSEY CO. ENGR

[Signature]
BRIDGE ENGR.

COMP DE HIGHWAYS