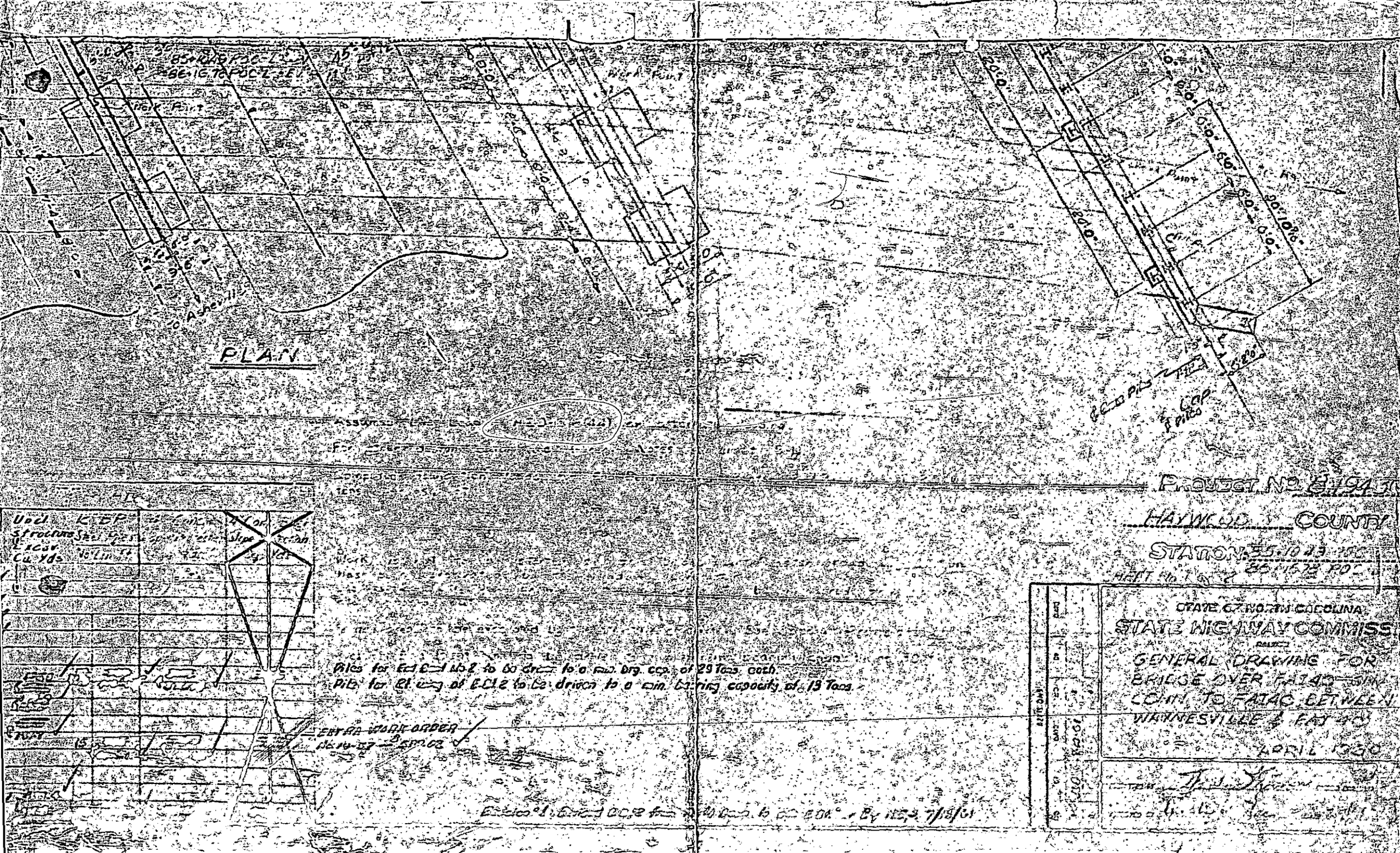
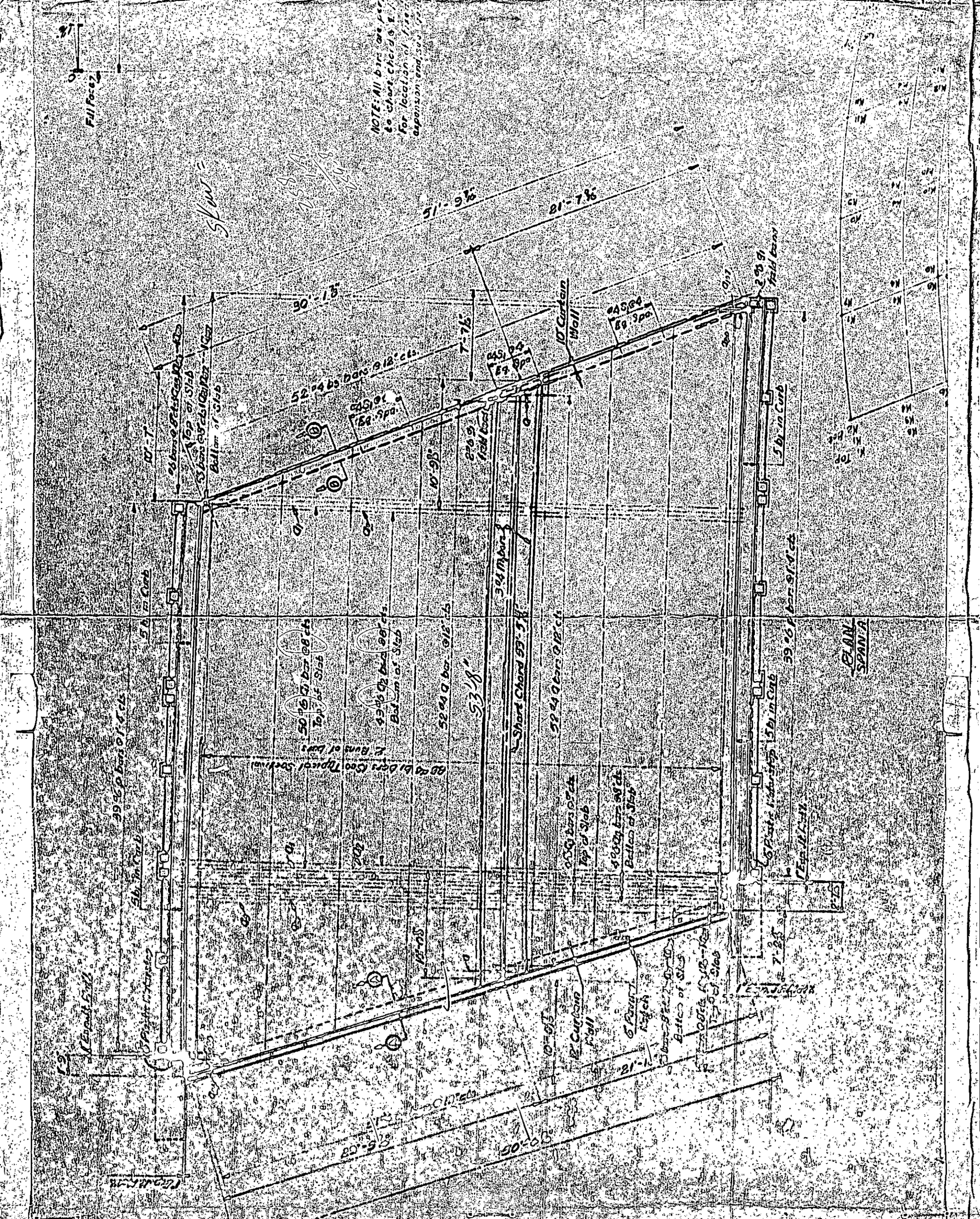
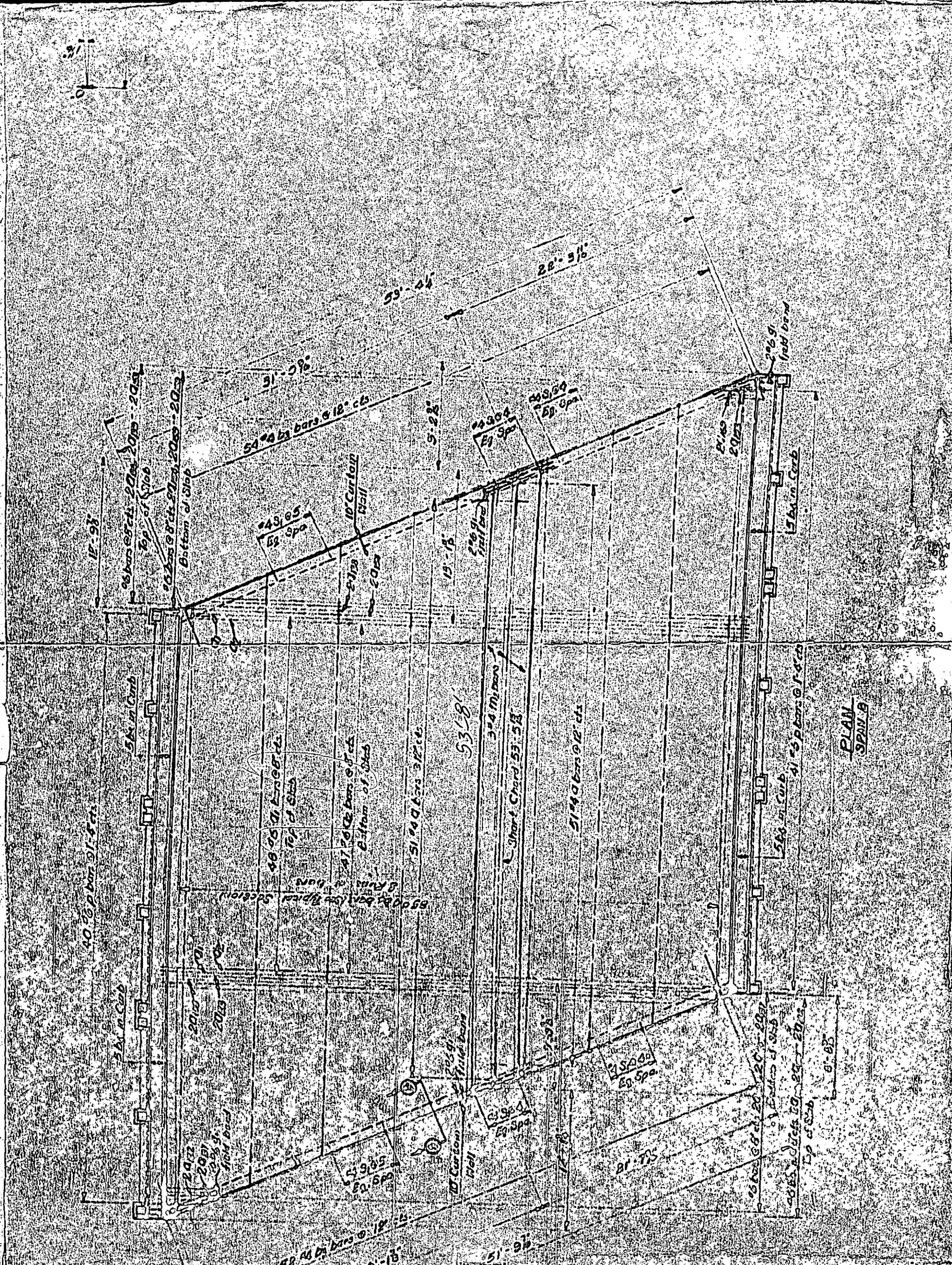
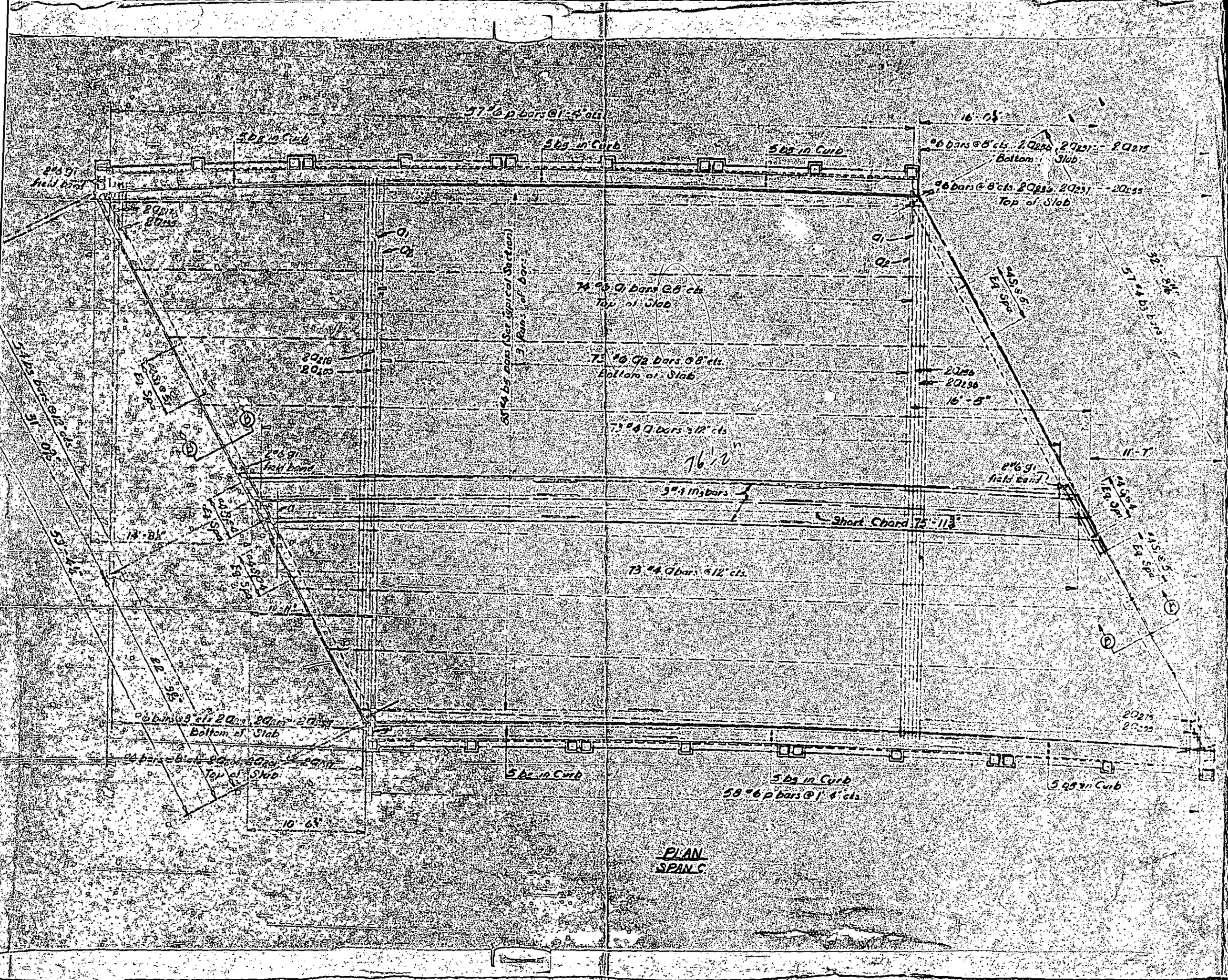
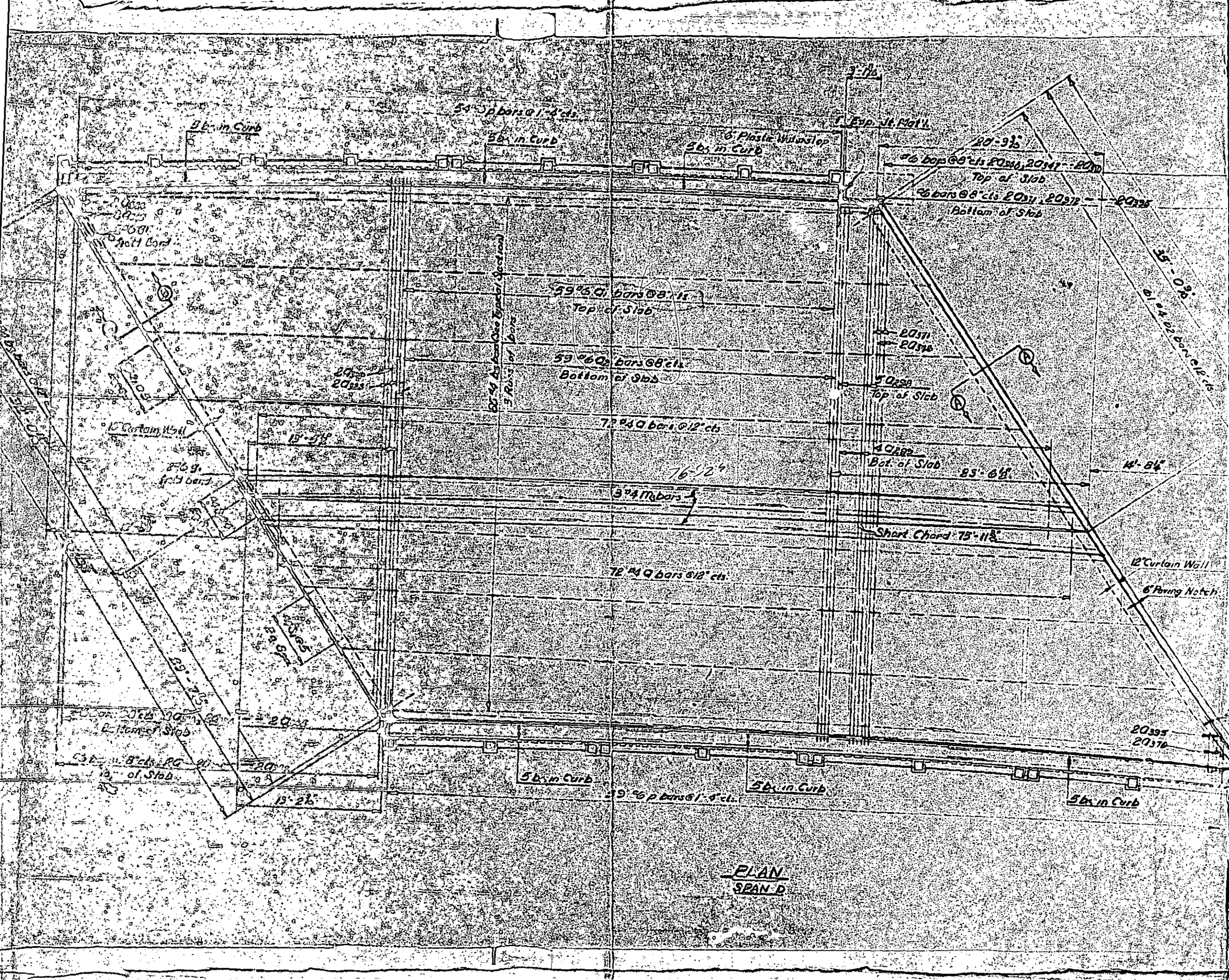
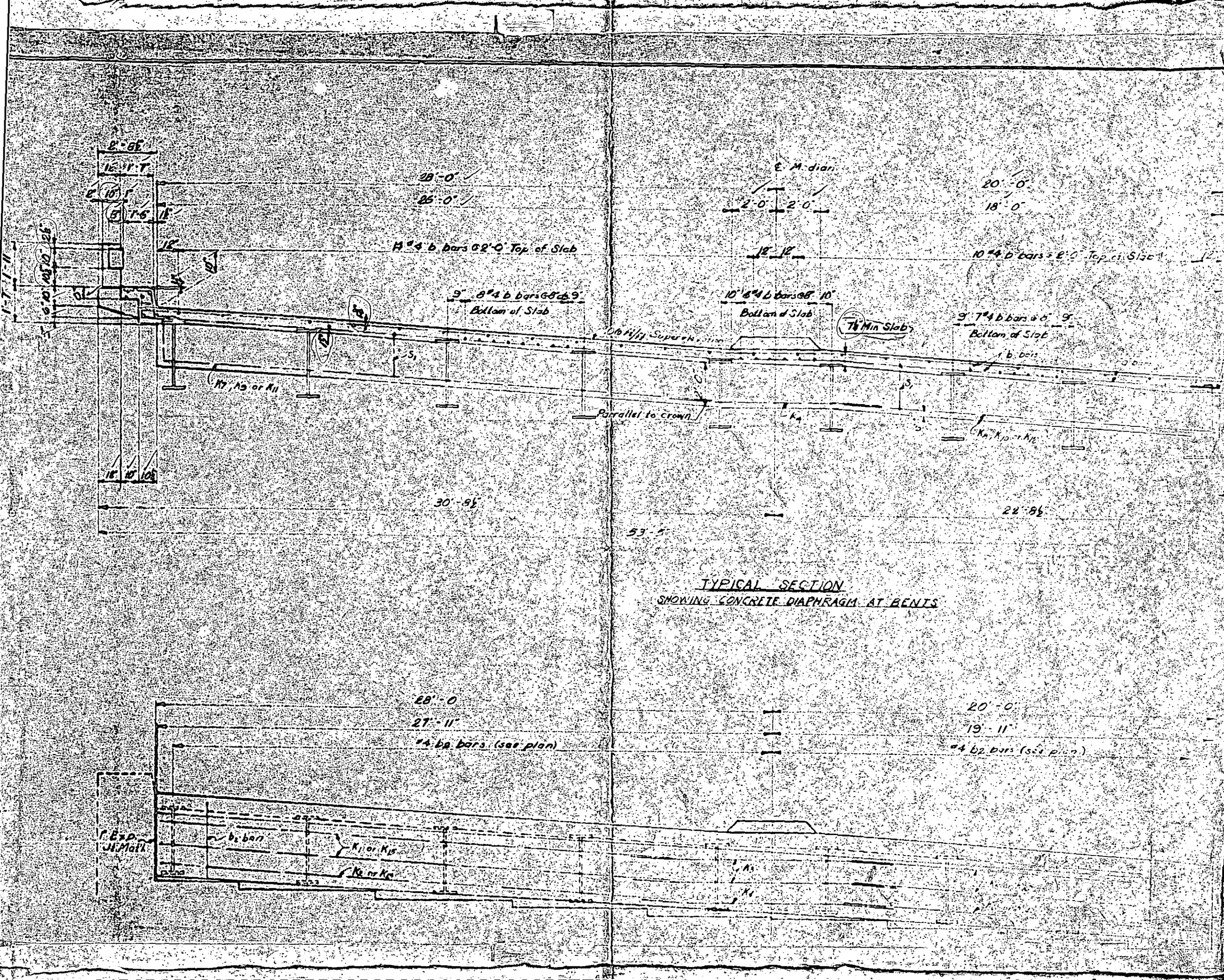

PLAN
Asheville
Piles for Ed E-1 ub 2 to be driven to a min. brg. cap. of 29 Tons each
Piles for El. bent of E-C1.2 to be driven to a min. bearing capacity of 13 Tons
EXTRA WORK ORDER
PROJECT NO. B-1941
HAYWOOD COUNTY
STATION: 55.0+43 PC
STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION
GENERAL DRAWING FOR
BRIDGE OVER FAIAO CREEK
CONN. TO FAIAO BETWEEN
WAYNESVILLE & EAST FORK
APRIL 1960
UNO3-94-50

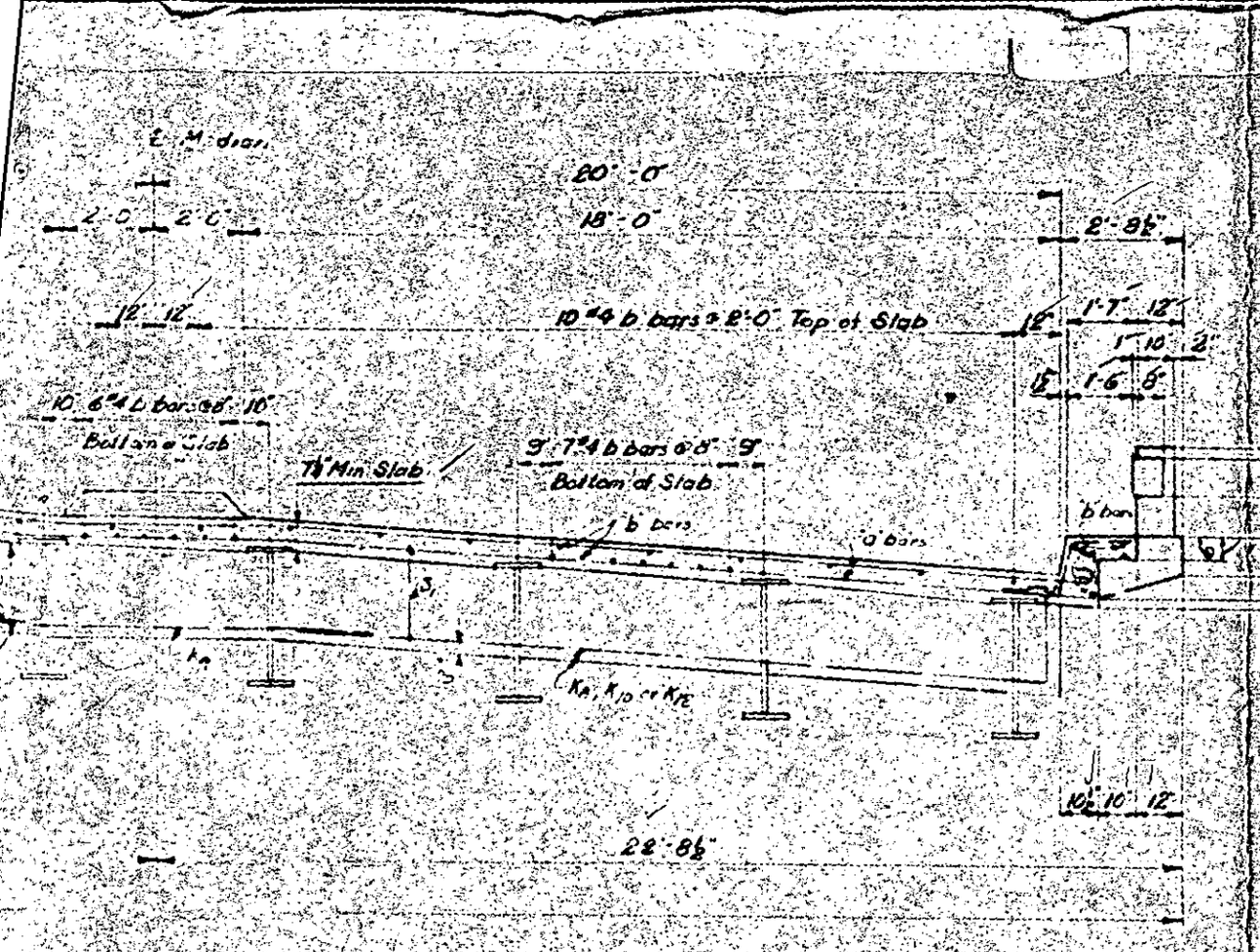

PLAN
SPAN A
Short Chord 99'-7 1/8"
Top of Slab
Bottom of Slab
Curtain Wall
Field Bend
5 bars in Curb
Expansion Joint
Expansion Joint
Splice
Splice
Splice


PLAN
SPAN B
Curve of Slab
Bottom of Slab
Top of Slab
Bottom of Slab
Top of Slab
Bottom of Slab
Top

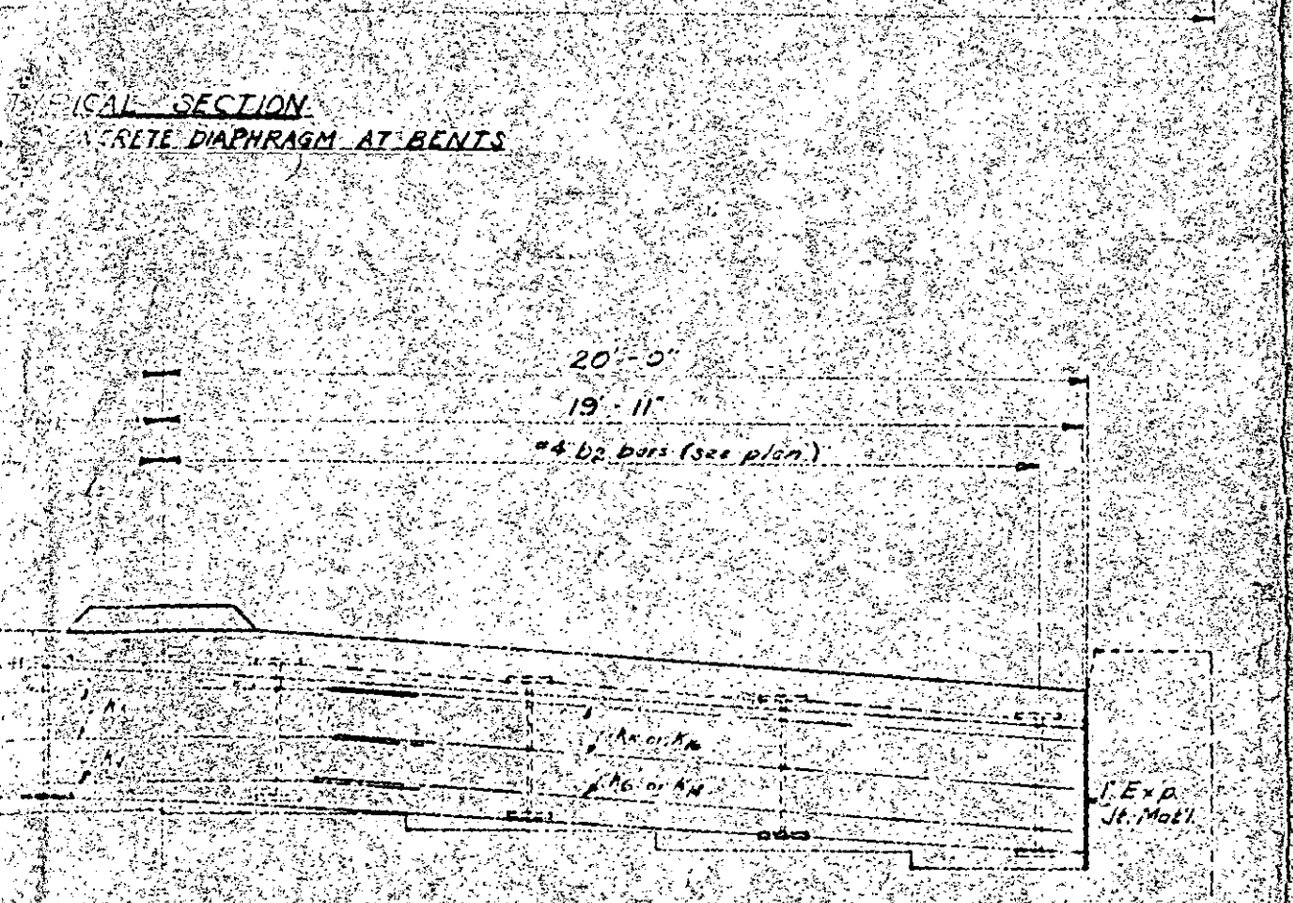

5bz in Curb
5bg in Curb
5bs in Curb
Field bend
Bottom of Slab
Top of Slab
Short Chord 75'-11½"
5bz in Curb
5bg in Curb
5bs in Curb
PLAN
SPAN C


5 lbs in Curb
54 #5 p bars @ 1'-4" cts.
6" Plastic Waterstop
1" Exp. Jt. Matl.
20'-9½"
#6 bars @ 8" cts 20346, 20347 - 20370
Top of Slab
#6 bars @ 8" cts 20311, 20312 - 20335
Bottom of Slab
59 #6 Q1 bars @ 8" cts
Top of Slab
59 #6 Q2 bars @ 8" cts.
Bottom of Slab
20371
20346
20309
Top of Slab
7 #4 Q bars @ 12" cts
40282
Bot. of Slab
85'-6⅝"
14'-8¼"
76'-2¼"
3 #4 M bars
Short Chord 75'-11⅝"
72 #4 Q bars @ 12" cts.
12" Curtain Wall
6" Paving Notch
35'-0⅝"
61 #4 D2 bars @ 12" cts
20395
20370
5 lbs in Curb
9 #6 P bars @ 1'-4" cts.
19'-2⅝"
PLAN
SPAN D

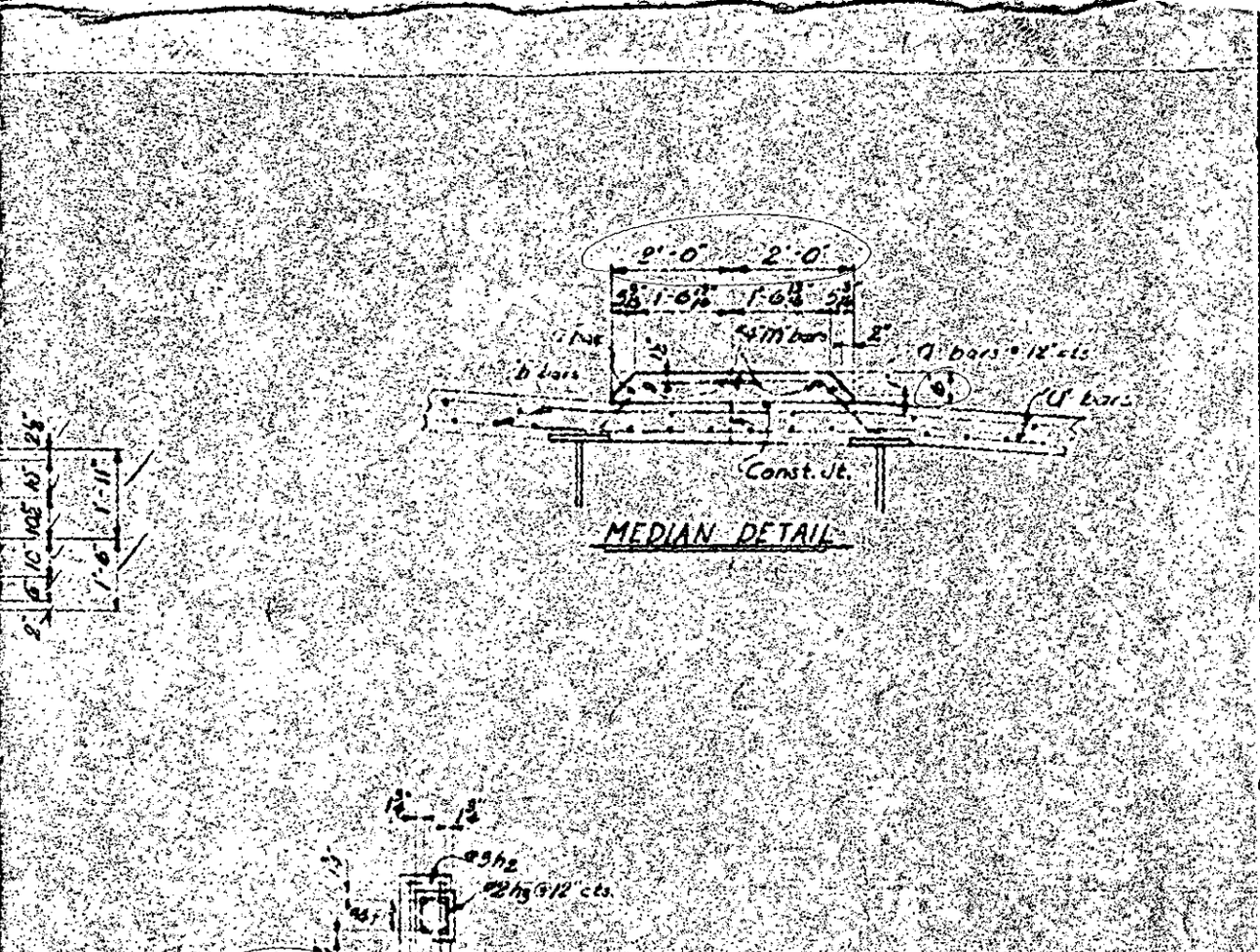

2'-6½"
28'-0"
26'-0"
℄ Median
2'-0"
2'-0"
20'-0"
18'-0"
#4 b bars @ 2'-0" Top of Slab
10 #4 b bars @ 2'-0" Top of Slab
3" 8 #4 b bars @ 8" @ 9"
Bottom of Slab
10" 6 #4 b bars @ 8" 10"
Bottom of Slab
7½" Min Slab
9" 7 #4 b bars @ 8" 9"
Bottom of Slab
Parallel to crown
30'-9½"
22'-8½"
53'-5"
TYPICAL SECTION
SHOWING CONCRETE DIAPHRAGM AT BENTS
28'-0"
27'-11"
#4 b2 bars (see plan)
20'-0"
19'-11"
#4 b2 bars (see plan)
Exp. Joint


℄ Median
20'-0"
18'-0"
2'-0"
2'-0"
2'-8½"
10 #4 b bars @ 2'-0" Top of Slab
10 #4 b bars @ 8" Bottom of Slab
7½" Min Slab
Bottom of Slab
b bars
a bars
Ka, K10 or K12
22'-8½"

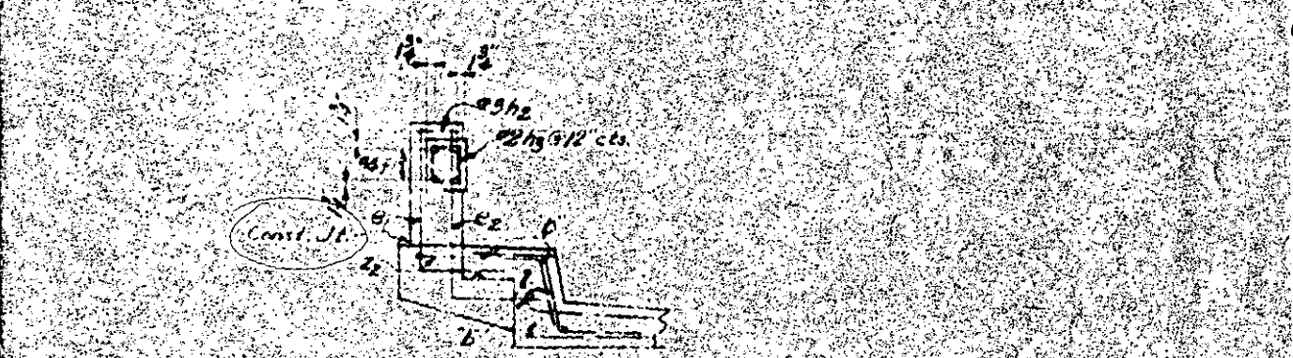
VERTICAL SECTION
CONCRETE DIAPHRAGM AT BENTS


20'-0"
19'-11"
#4 b2 bars (see plan)
Ka or K10
K6 or K14
℄ Exp. Jt. Mat'l.

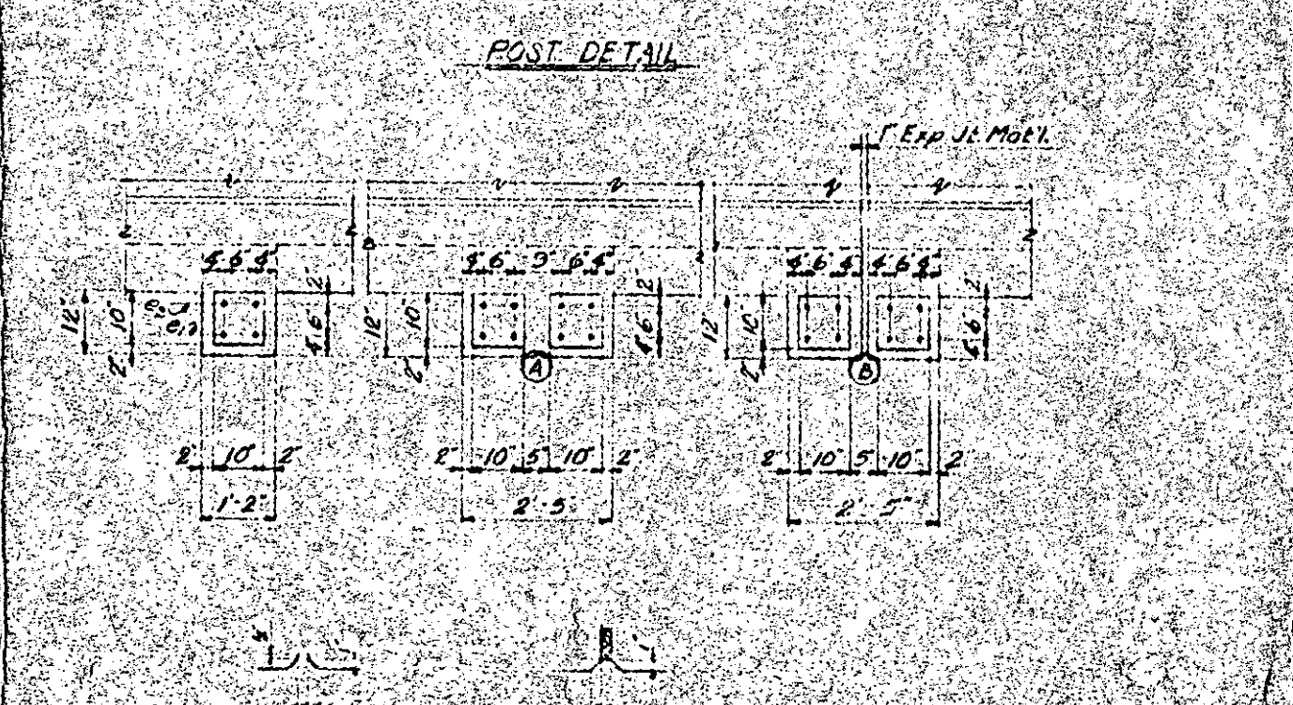
END VIEW


2'-0"
2'-0"
#4 m bars
a bars @ 12" cts.
b bars
a bars
Const. Jt.

MEDIAN DETAIL


#9 h2
#2 h3 @ 12" cts.
Const. Jt.

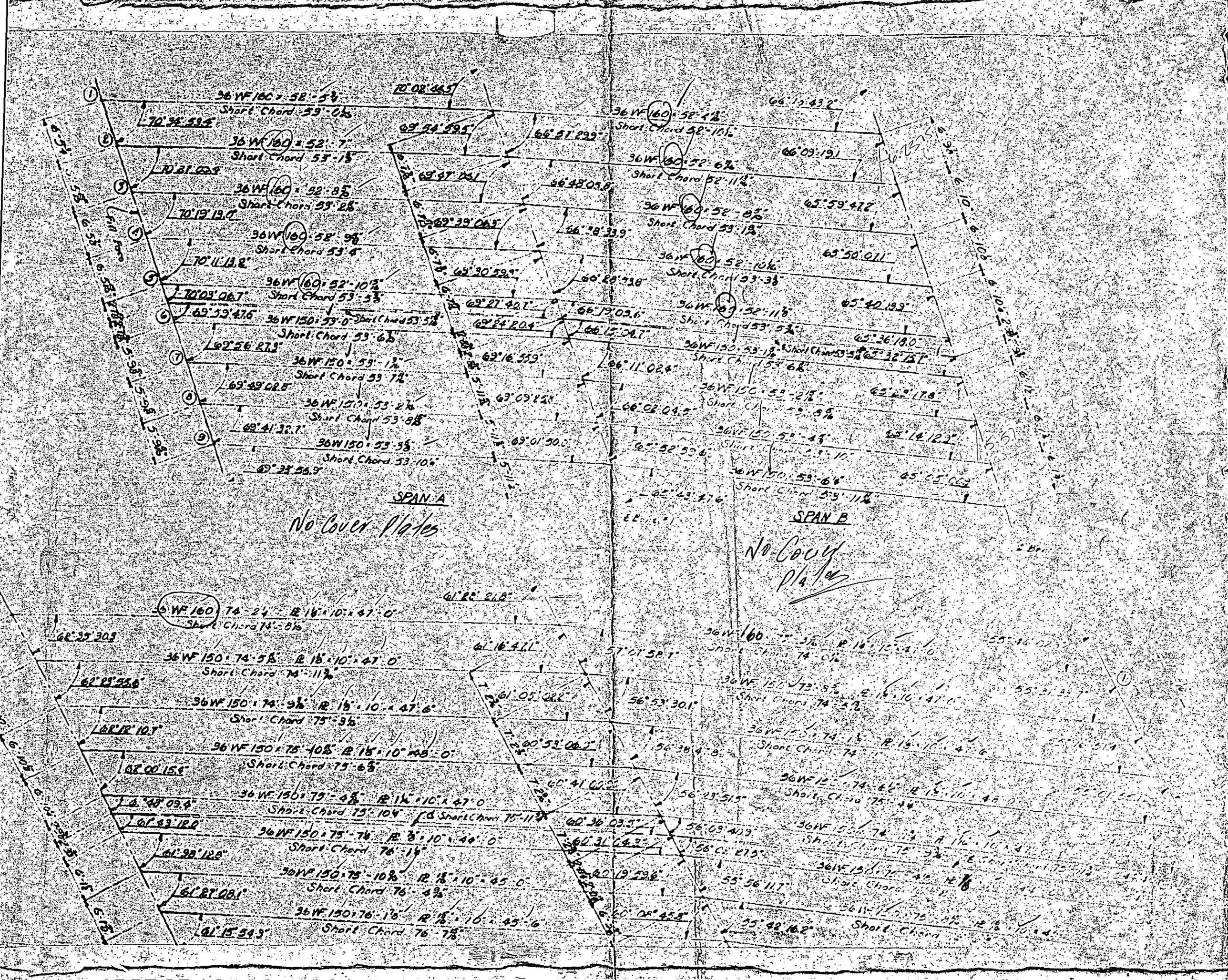
POST DETAIL

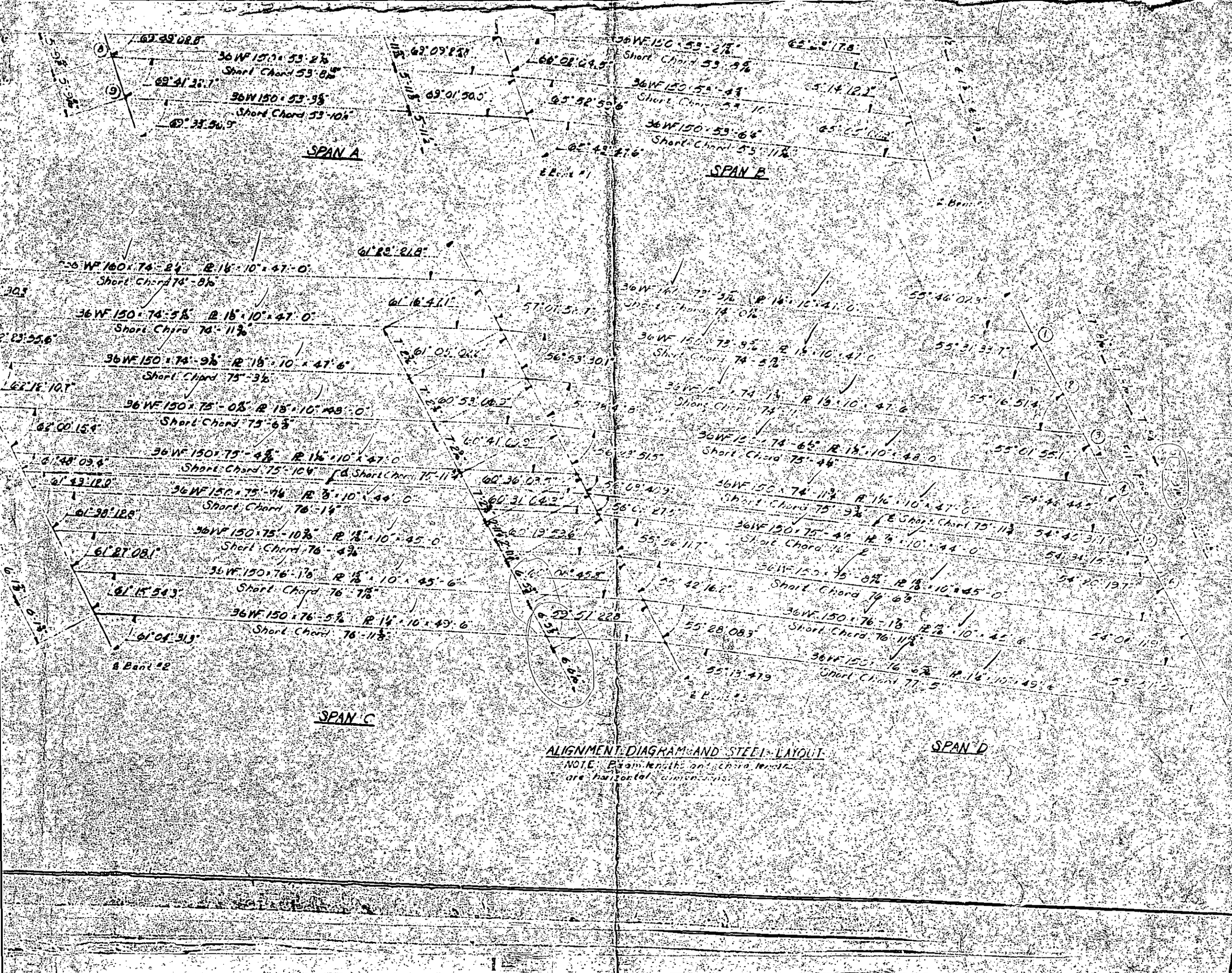

℄ Exp. Jt. Mat'l.
A
B
2'-10"
1'-2"
2'-10"
5"
2'-5"
2'-10"
5"
2'-5"

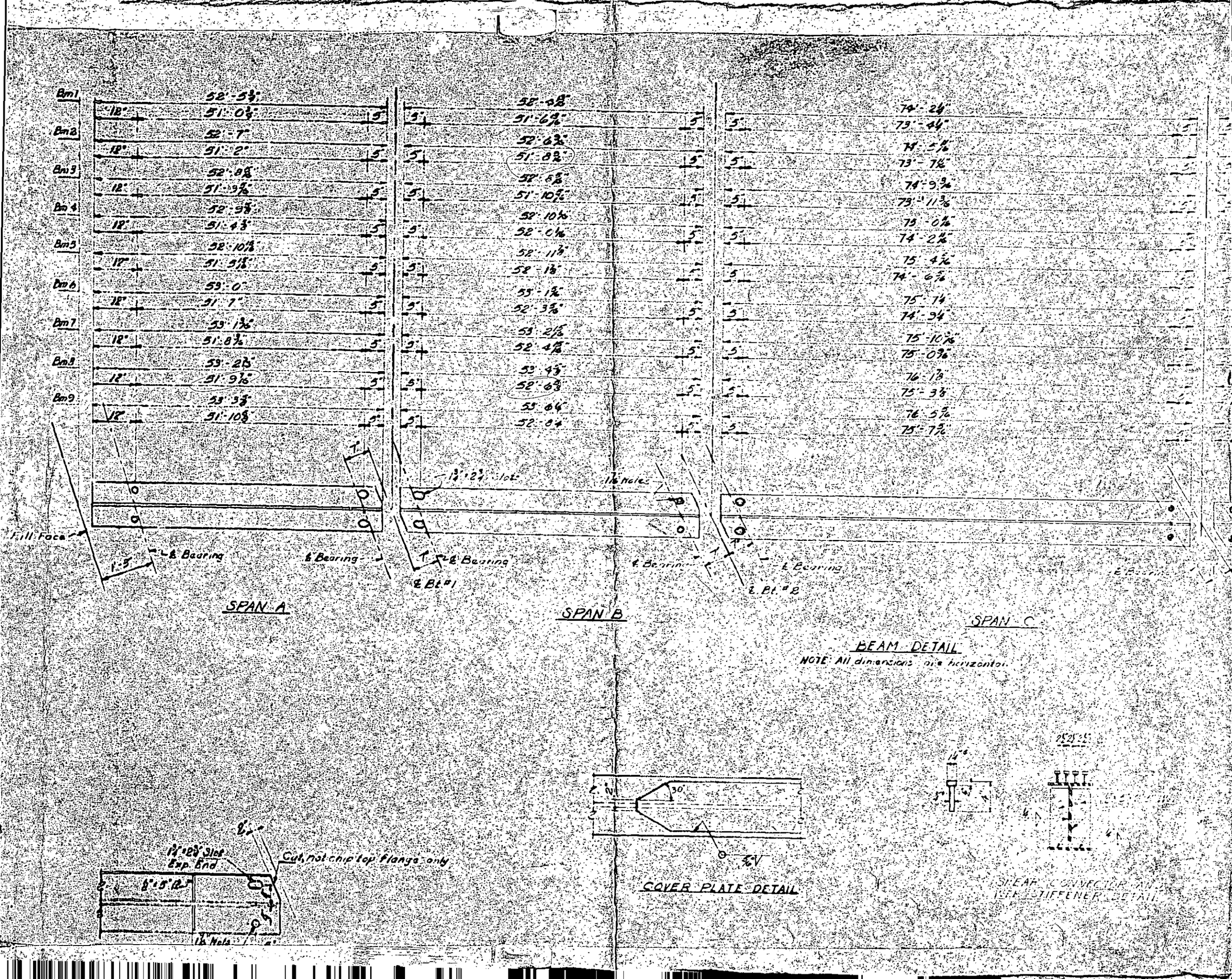
DETAIL A

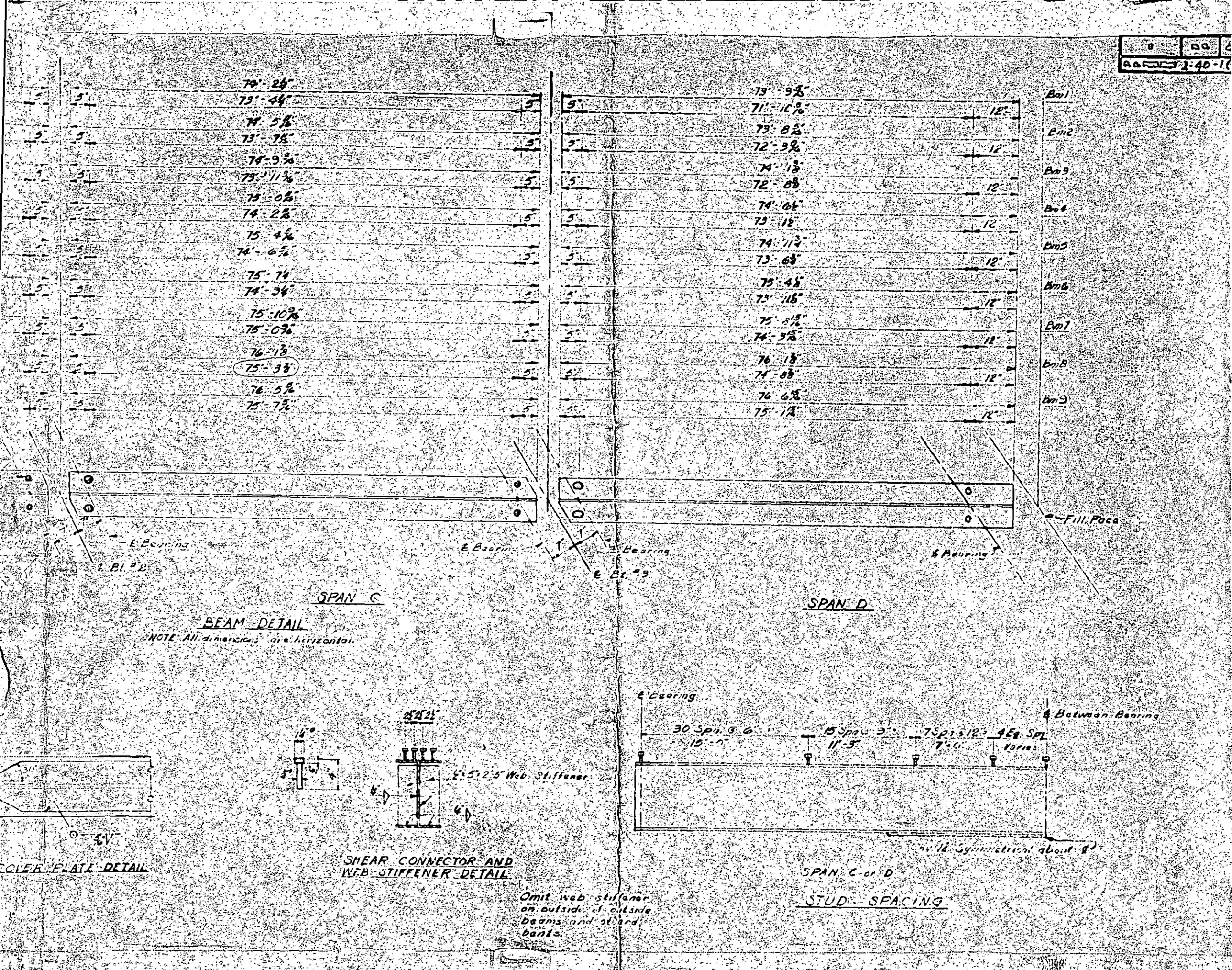
DETAIL B

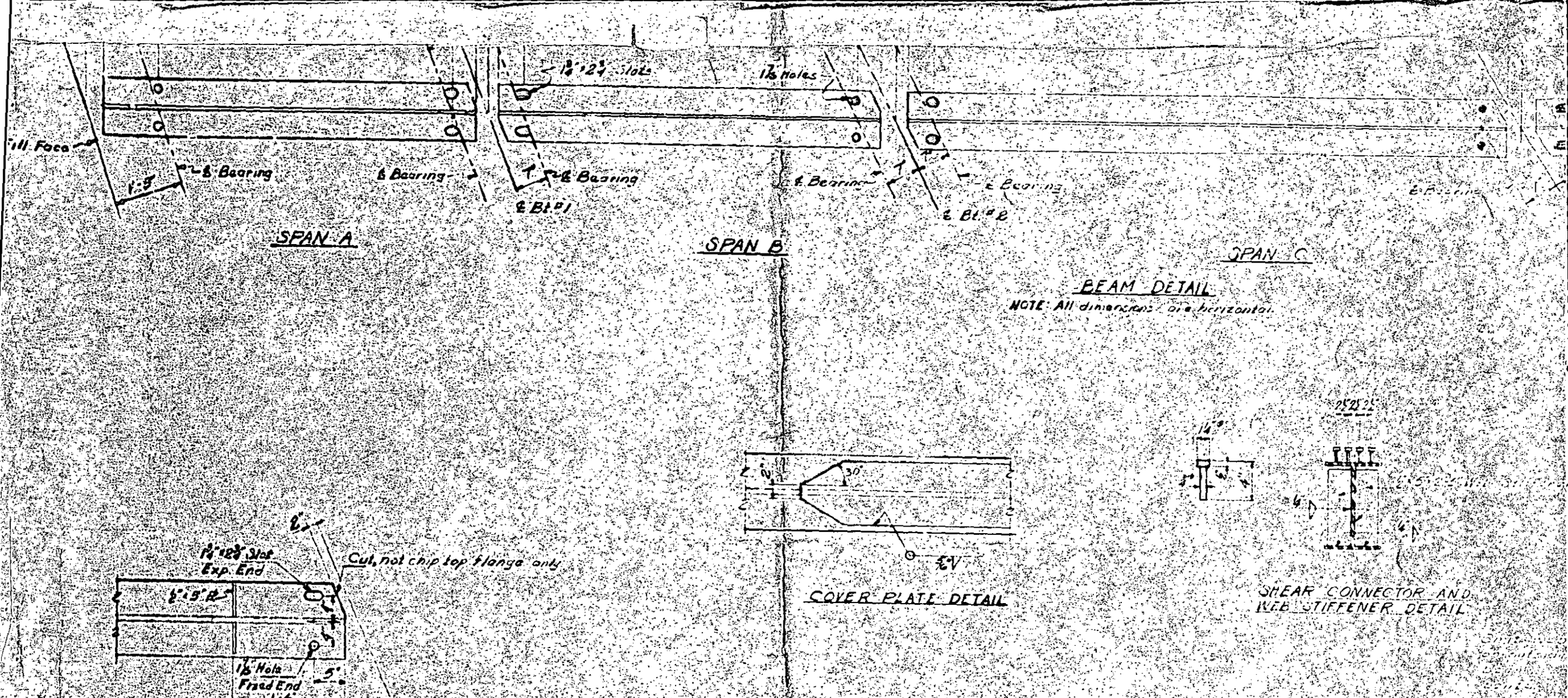
PROJECT No. 8:19430


SPAN A
No Cover Plates
SPAN B
No Cover Plates


SPAN A
SPAN B
SPAN C
SPAN D
36WF 150 × 53' 2½"
Short Chord 53' 8½"
36WF 150 × 53' 9½"
Short Chord 53' 10½"
36WF 160 × 74' 2¼" R 16' 10" × 47' 0"
Short Chord 74' 8½"
36WF 150 × 74' 5½" R 16' 10" × 47' 0"
Short Chord 74' 11½"
36WF 150 × 74' 9½" R 16' 10" × 47' 6"
Short Chord 75' 3½"
36WF 150 × 75' 0½" R 16' 10" × 48' 0"
Short Chord 75' 6½"
36WF 150 × 75' 4½" R 16' 10" × 47' 0"
Short Chord 75' 10½"
36WF 150 × 75' 7½" R 16' 10" × 44' 0"
Short Chord 76' 1½"
36WF 150 × 75' 10½" R 16' 10" × 45' 0"
Short Chord 76' 4½"
36WF 150 × 76' 1½" R 16' 10" × 45' 6"
Short Chord 76' 7½"
36WF 150 × 76' 5½" R 16' 10" × 45' 6"
Short Chord 76' 11½"
36WF 150 × 53' 2½"
Short Chord 53' 8½"
36WF 150 × 53' 4½"
36WF 150 × 53' 6½"
36WF 150 × 73' 3½" R 16' 10" × 41' 0"
Short Chord 74' 0½"
36WF 150 × 73' 9½" R 16' 10" × 47' 0"
Short Chord 74' 5½"
36WF 150 × 74' 1½" R 16' 10" × 47' 6"
36WF 150 × 74' 6½" R 16' 10" × 48' 0"
Short Chord 75' 4½"
36WF 150 × 74' 11½" R 16' 10" × 47' 0"
Short Chord 75' 9½"
36WF 150 × 75' 4½" R 16' 10" × 44' 0"
36WF 150 × 75' 8½" R 16' 10" × 45' 0"
Short Chord 76' 6½"
36WF 150 × 76' 1½" R 16' 10" × 45' 6"
Short Chord 76' 11½"
36WF 150 × 76' 6½" R 16' 10" × 45' 6"
Short Chord 77' 5"
ALIGNMENT DIAGRAM AND STEEL LAYOUT
NOTE: Diagram lengths and chord lengths are horizontal dimensions.


Bm1
52'-5 3/8"
12"
51'-0 3/8"
5"
Bm2
52'-7"
12"
51'-2"
5"
Bm3
52'-8 5/8"
12"
51'-9 7/16"
5"
Bm4
52'-9 7/8"
12"
51'-4 3/8"
5"
Bm5
52'-10 15/16"
12"
51'-5 15/16"
5"
Bm6
53'-0"
12"
51'-7"
5"
Bm7
53'-1 3/16"
12"
51'-8 3/16"
5"
Bm8
53'-2 1/8"
12"
51'-9 1/16"
5"
Bm9
53'-3 3/8"
12"
51'-10 5/8"
5"
Full Face
1'-5"
℄ Bearing
℄ Bearing
℄ Bearing
℄ Bl. #1
SPAN A
52'-0 1/8"
5"
51'-6 9/16"
5"
52'-6 3/16"
5"
51'-8 3/16"
5"
52'-8 5/16"
5"
51'-10 7/16"
5"
52'-10 1/16"
5"
52'-0 1/16"
5"
52'-11 1/8"
5"
52'-1 1/8"
5"
53'-1 3/16"
5"
52'-3 5/16"
5"
53'-2 15/16"
5"
52'-4 15/16"
5"
53'-4 5/8"
5"
52'-6 5/8"
5"
53'-6 1/4"
5"
52'-8 1/4"
5"
1 3/4"x2 3/4" slot
1 1/16" Holes
℄ Bearing
℄ Bearing
℄ Bl. #2
SPAN B
74'-2 1/4"
5"
73'-4 1/4"
5"
74'-5 5/16"
5"
73'-7 1/16"
5"
74'-9 3/16"
5"
73'-11 3/16"
5"
75'-0 5/16"
5"
74'-2 11/16"
5"
75'-4 3/16"
5"
74'-6 5/16"
5"
75'-7 1/4"
5"
74'-9 1/4"
5"
75'-10 3/16"
5"
75'-0 3/16"
5"
76'-1 3/8"
5"
75'-3 3/8"
5"
76'-5 3/16"
5"
75'-7 3/16"
℄ Bearing
℄ Bearing
SPAN C
BEAM DETAIL
NOTE: All dimensions are horizontal.
30°
3/16"V
COVER PLATE DETAIL
1/4"
STEAM CONVECTOR AND
TUBE STIFFENER DETAIL
1 3/4"x2 3/4" Slot
Exp. End
Cut, not chip top flange only
8"x5" R
1 1/16" Hole


74'-2 1/4"
73'-4 1/4"
74'-5 5/16"
73'-7 5/16"
74'-9 9/16"
73'-11 9/16"
75'-0 1/2"
74'-2 1/2"
75'-4 5/16"
74'-6 5/16"
75'-7 1/4"
74'-9 1/4"
75'-10 9/16"
75'-0 9/16"
76'-1 3/8"
75'-3 3/8"
76'-5 9/16"
75'-7 9/16"
℄ Bearing
℄ Bearing
℄ Bearing



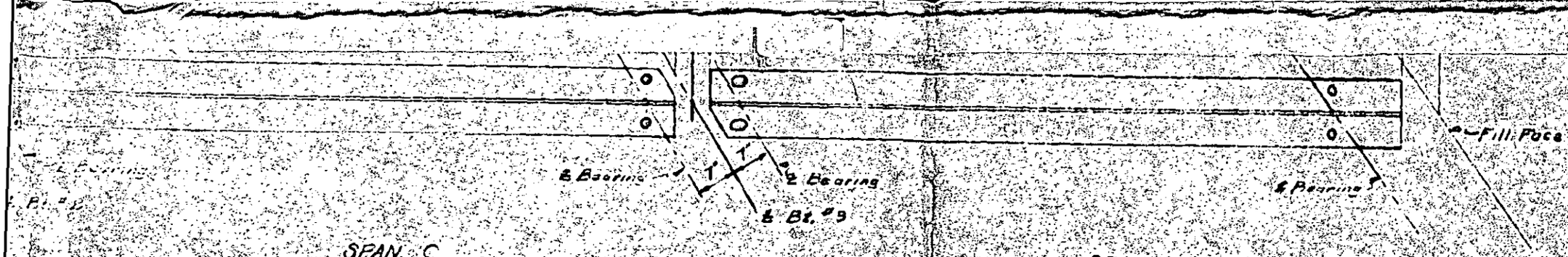
NOTE: Do not paint shear connectors or top flange of beams.
~~For option of Contractor of shear connectors see Special Provision.~~

BEAM DEFLECTION

	BEAM	1	2	3	4	5	6	7	8	9
SPAN A or B	Deflection due to weight of Beam	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"	5/8"
	Deflection due to superimposed dead load	7/16"	3/8"	3/8"	3/8"	3/8"	3/8"	7/16"	7/16"	1/2"
	Total dead load deflection	9/16"	1/2"	1/2"	1/2"	1/2"	1/2"	9/16"	9/16"	5/8"
SPAN C or D	Deflection due to weight of Beam	5/8"	5/8"	5/8"	5/8"	5/8"	5/16"	5/16"	5/16"	5/16"
	Deflection due to superimposed dead load	1 1/2"	1 3/8"	1 3/8"	1 3/16"	1 3/8"	1 5/16"	1 3/8"	1 3/8"	1 3/8"
	Total dead load deflection	1 3/4"	1 5/8"	1 5/8"	1 7/16"	1 5/8"	1 5/8"	1 7/16"	1 7/16"	1 7/16"

BEAM DEFLEC

	BEAM
SPAN A or B	Total dead load deflection
	Superelev. Short Cond.
	Net Total (No Condition)
SPAN C or D	Total dead load deflection
	Superelev. Short Cond.
	Req'd. Camber (Condition)

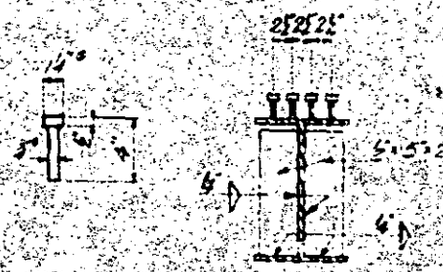


SPAN C

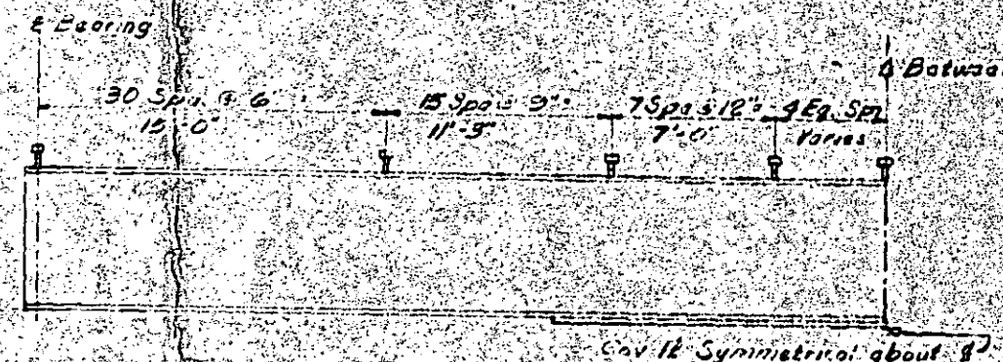
SPAN D

BEAM DETAIL

NOTE All dimensions are horizontal.



SHEAR CONNECTOR AND WEB STIFFENER DETAIL



SPAN C or D

STUD SPACING

Omit web stiffener on outside of outside beams and at end banks.

Omit shear connectors on outside beams.

[illegible] Special Provision

DEFLECTION

	1	2	3	4	5	6	7	8	9
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

BEAM DEFLECTION AND CAMBER

	BEAM	1	2	3	4	5	6	7	8	9
SPAN A or B	Total dead load deflection	9/16"	1/2"	1/2"	1/2"	1/2"	1/2"	9/16"	9/16"	5/8"
	Superelev. & vert. curve and	1/16"	1/16"	1/16"	1/16"	3/16"	1/8"	1/16"	1/16"	1/16"
	Net Total (No Camber)	1/2"	7/16"	7/16"	7/16"	11/16"	7/16"	1/2"	1/2"	9/16"
SPAN C or D	Total dead load deflection	1 3/16"	1 1/8"	1 1/16"	1 1/16"	1 1/8"	1 1/8"	1 1/16"	1 1/16"	1 15/16"
	Superelev. & vert. curve and	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"
	Reqd. Beam Camber	1 5/16"	1 1/4"	1 3/16"	1 1/16"	2"	1 1/4"	1 3/16"	1 3/16"	1 13/16"

PROJECT No. B-13430

HAYWOOD COUNTY

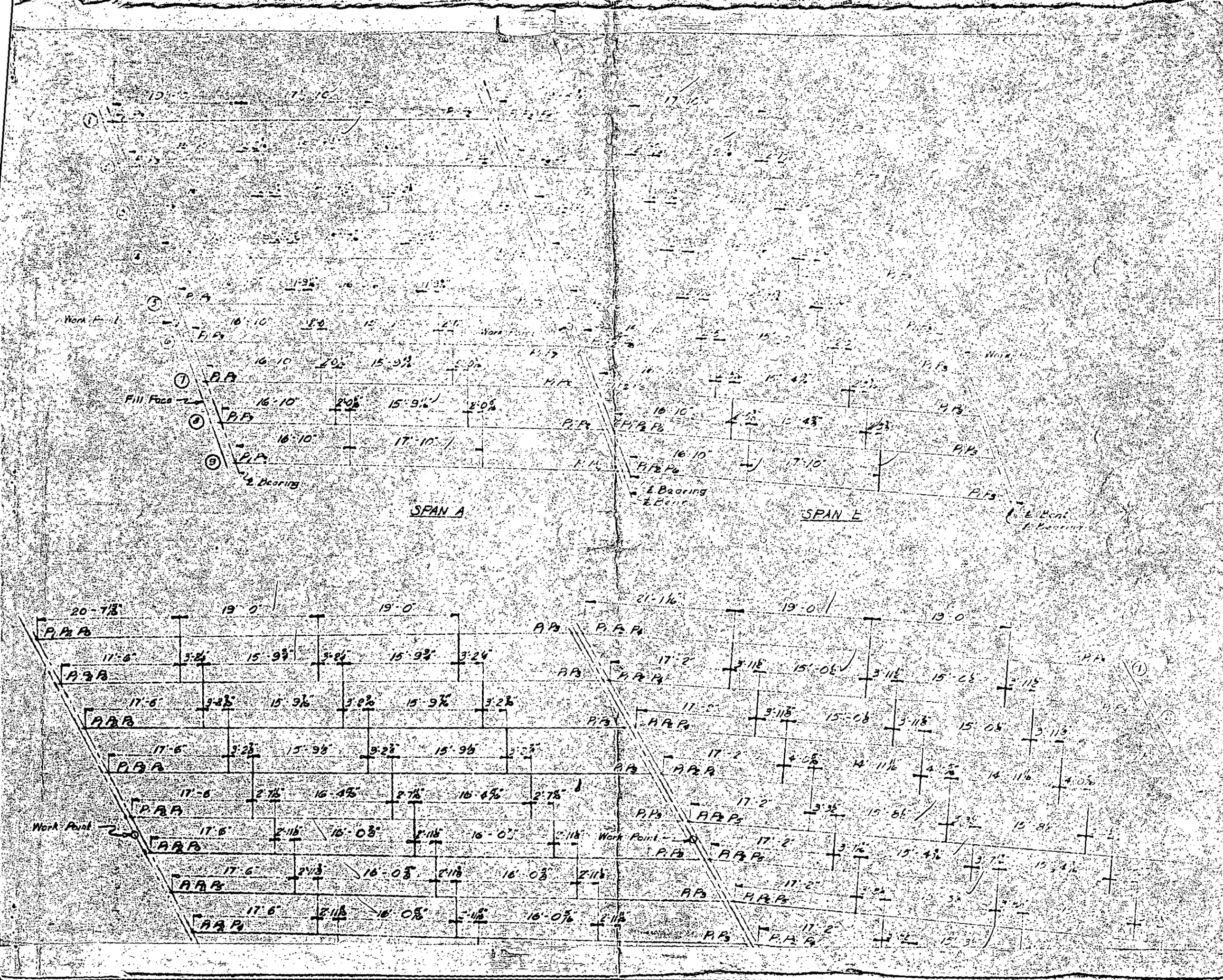
STATION 85+1049 P.O.C.
L. Rev.

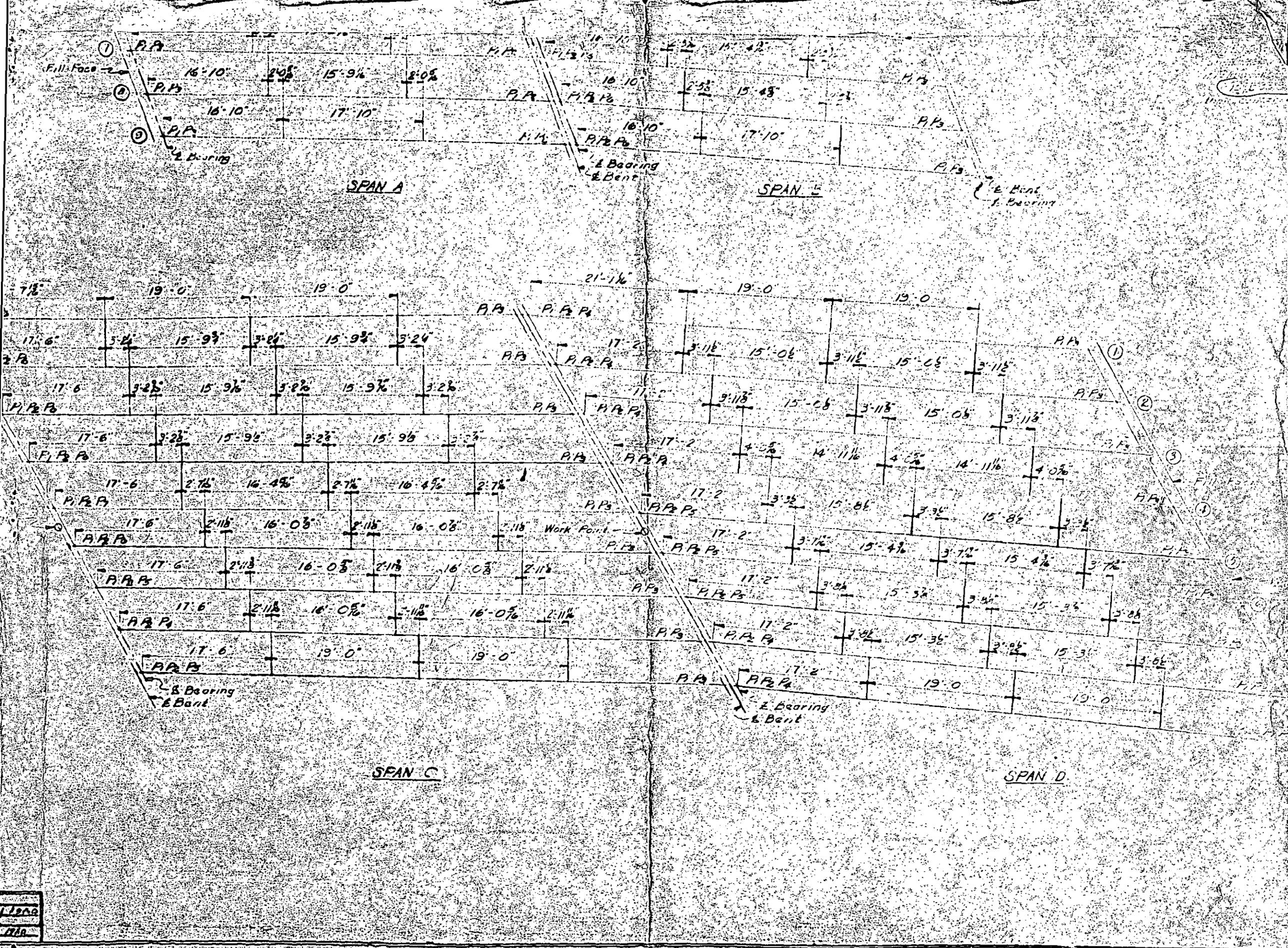
STATE OF NORTH CAROLINA
STATE HIGHWAY COMMISSION

STEEL LAYOUT

April 1960

HGT


SPAN A
SPAN E
Work Point
Fill Face
℄ Bearing
℄ Bent
P1 P2 P3
P1 P2 P4
P1 P2 P5
P1 P2 P6
16'-10"
17'-10"
15'-9½"
2'-0½"
19'-0"
20'-7½"
17'-6"
3'-2½"
15'-9½"
2'-7½"
16'-4½"
2'-11½"
16'-0½"
21'-1½"
17'-2"
3'-11½"
15'-0½"
4'-0½"
14'-11½"
3'-3½"
15'-8½"
3'-7½"
15'-4½"


Fill Face
℄ Bearing
SPAN A
℄ Bearing
℄ Bent
SPAN B
℄ Bent
℄ Bearing
SPAN C
Work Point
℄ Bearing
℄ Bent
SPAN D