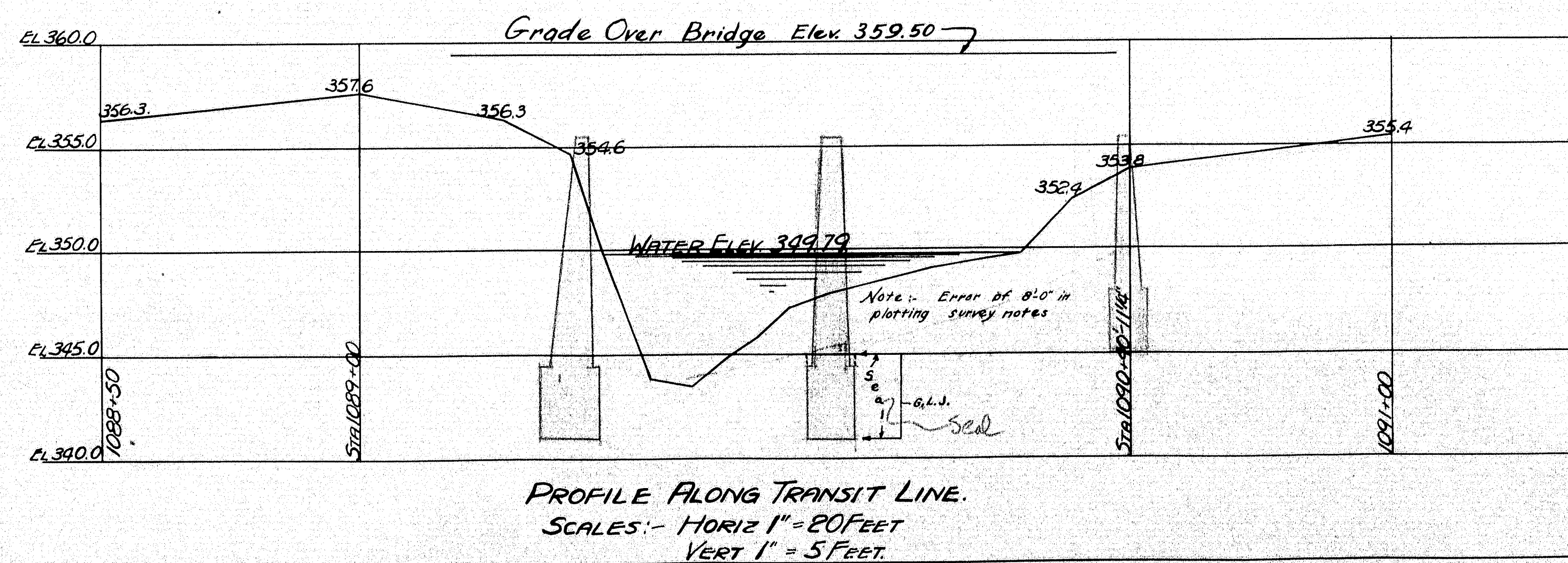
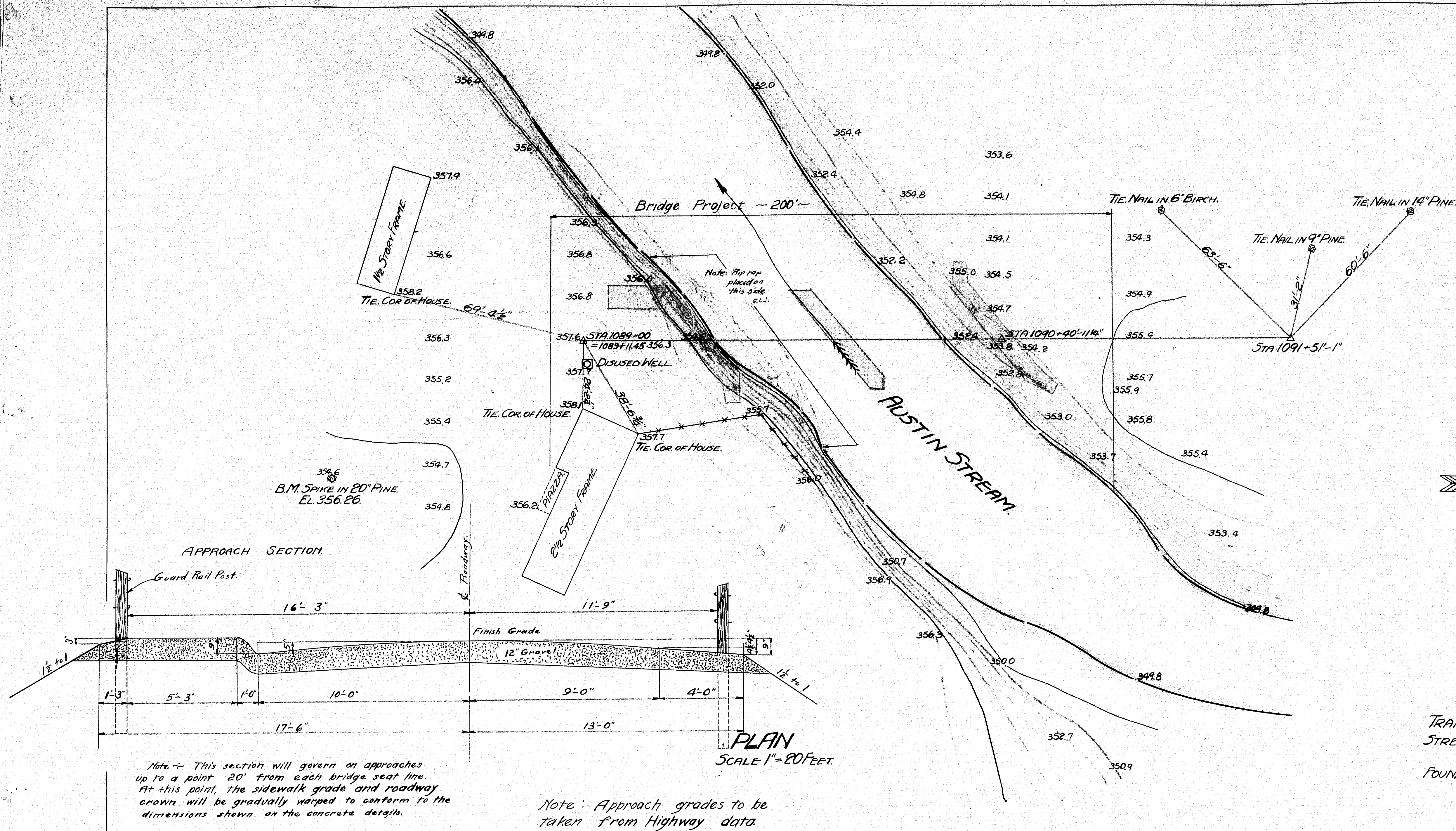
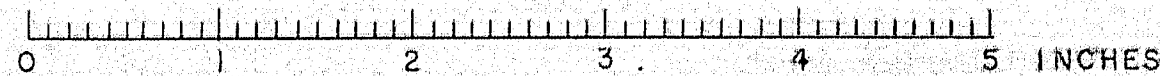


TRAFFIC: - MAINTAINED OVER EXISTING BRIDGE ON PRESENT ROAD.
 STREAM: - RISES AND FALLS RAPIDLY. PRESENT LEVEL IS LOW STAGE. REPORTED FLOOD STAGE ELEV 355.8. CURRENT SWIFT AT FLOOD STAGE.
 FOUNDATION: - ENTIRE STREAM BED OF COARSE GRAVEL. NO PENETRATION.

MAINE HIGHWAY COMMISSION.
 BRIDGE DIVISION.
AUSTIN BRIDGE.
 OVER
AUSTIN STREAM.
 IN THE TOWN OF
BINGHAM, SOMERSET CO.
 SURVEY PLAN.
 SHEET 1 OF 4. AUGUSTA, ME. SEPT-29-30.

12-173



[illegible]

Technical drawing of a chimney cross-section. The drawing shows a trapezoidal structure with a central vertical shaft. Key dimensions and labels include:

- Top width: 6.270 m
- Inner top width: 2.0776 m
- Inner bottom width: 5.10 m
- Bottom width: 7.74 m
- Height: H = 12.5 m
- Inner height: 5.66 m
- Angle: 48.72°
- Angle: 5.66°
- Angle: 5.243°
- Angle: 4.32°
- Angle: 2.64°

5'-3 3/4"

El. 355.33

Seal G.W.

El. 344.00

El. 341.00

11'-4"

3'-0"

4'-1 1/8"

19'-7 1/2"

21'-9"

2'-1 1/8"

5'-11 1/2"

6'-4-0"

SECTION A
THRU PIER

PIER ELEVATION

Technical drawing of a trapezoidal roof section. The top width is labeled $5'-11\frac{1}{2}"$. The bottom width is labeled $4'-0"$. The height is labeled $11'-4"$. The side slopes are indicated by dashed lines. The drawing includes a vertical dimension line on the left and a horizontal dimension line at the top.

Technical drawing showing the dimensions of a wing and tail section. The drawing includes a plan view of the wing and a side view of the tail section. Dimensions are given in feet and inches.

Wing Dimensions:

- Span: $45'-8\frac{1}{4}"$ Clear Span
- Root Chord: $21'-11"$
- Tip Chord: $23'-1\frac{1}{4}"$
- Root Chord (inner): $22'-9"$
- Tip Chord (inner): $21'-9"$
- Root Chord (outer): $22'-11\frac{1}{2}"$
- Tip Chord (outer): $21'-5\frac{1}{2}"$
- Root Chord (inner): $22'-11\frac{1}{2}"$
- Tip Chord (inner): $21'-5\frac{1}{2}"$
- Root Chord (outer): $22'-11\frac{1}{2}"$
- Tip Chord (outer): $21'-5\frac{1}{2}"$
- Root Chord (inner): $22'-11\frac{1}{2}"$
- Tip Chord (inner): $21'-5\frac{1}{2}"$
- Root Chord (outer): $22'-11\frac{1}{2}"$
- Tip Chord (outer): $21'-5\frac{1}{2}"$

Tail Dimensions:

- Span: $16'-4\frac{1}{2}"$
- Root Chord: $18'-8"$
- Tip Chord: $18'-10"$
- Root Chord (inner): $16'-4\frac{1}{2}"$
- Tip Chord (inner): $18'-8"$
- Root Chord (outer): $16'-4\frac{1}{2}"$
- Tip Chord (outer): $18'-8"$
- Root Chord (inner): $16'-4\frac{1}{2}"$
- Tip Chord (inner): $18'-8"$
- Root Chord (outer): $16'-4\frac{1}{2}"$
- Tip Chord (outer): $18'-8"$
- Root Chord (inner): $16'-4\frac{1}{2}"$
- Tip Chord (inner): $18'-8"$
- Root Chord (outer): $16'-4\frac{1}{2}"$
- Tip Chord (outer): $18'-8"$

Note: Place seat. Space Also spaced back of wing and breast w. Forms.

Diagram illustrating the cross-section of a bridge deck with various elevations and dimensions:

- Left Side Dimensions:**
 - Top width: 6'-0"
 - Bottom width: 3'-0"
 - Bottom width extension: 6'-2"
- Elevations (Left Side):**
 - Top Left: El. 360.17
 - Top Right: El. 354.17
 - Inner Top: El. 348.00
 - Bottom: El. 345.00
- Right Side Dimensions:**
 - Top width: 4'-0"
 - Inner Top: 3'-11"
 - Bottom: 7'-4"
 - Bottom extension: 3'-0"
- Elevations (Right Side):**
 - Top Right: El. 359.25
 - Inner Top: El. 355.25
 - Inner Top: El. 348.00
 - Bottom: El. 345.00
- Center:** A vertical dashed line with a circle at the top, indicating the centerline.

Diagram illustrating the cross-section of a bridge deck with various elevations and dimensions:

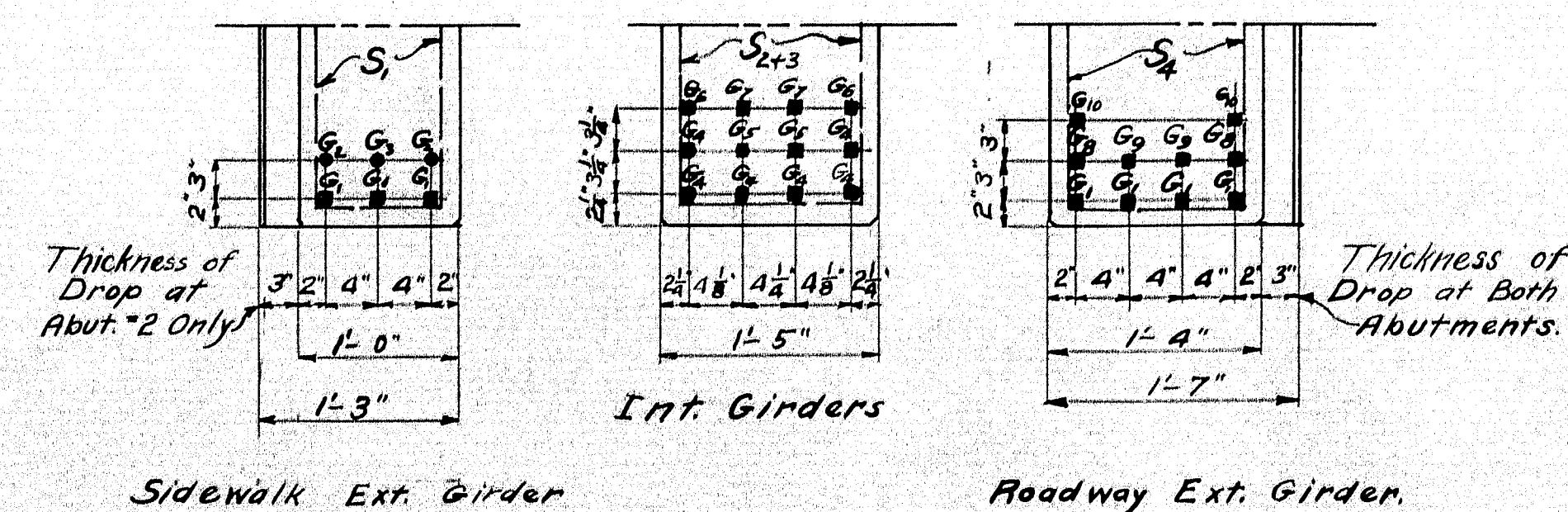
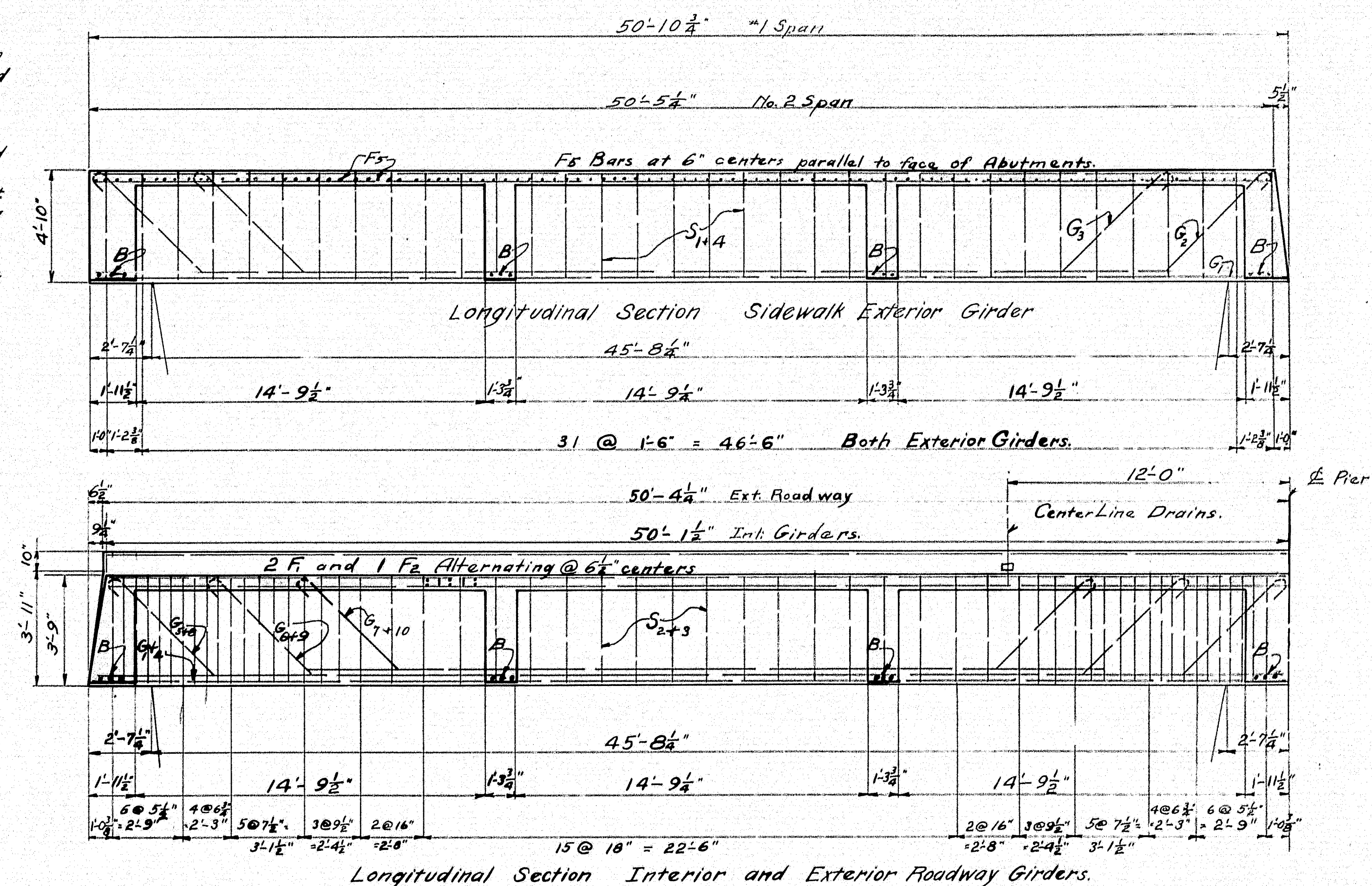
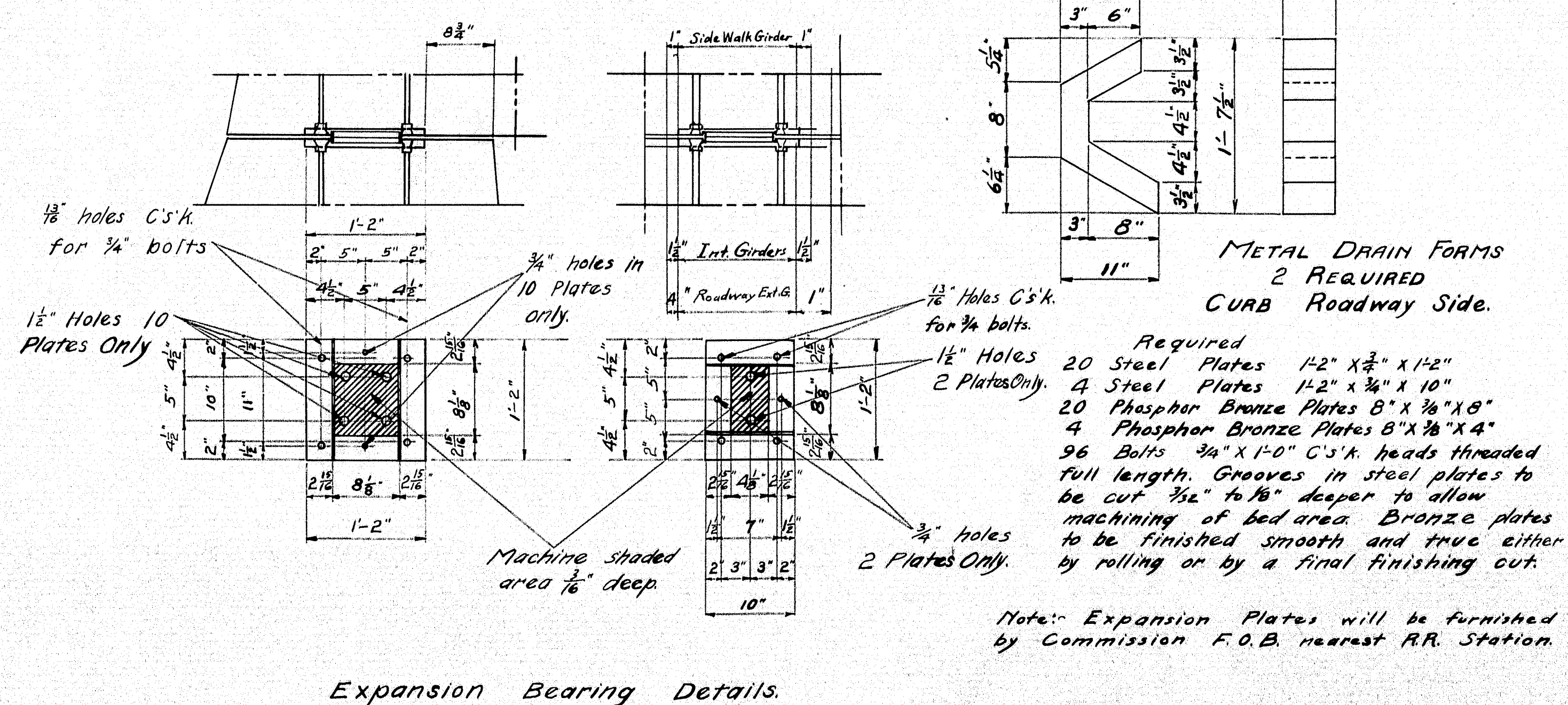
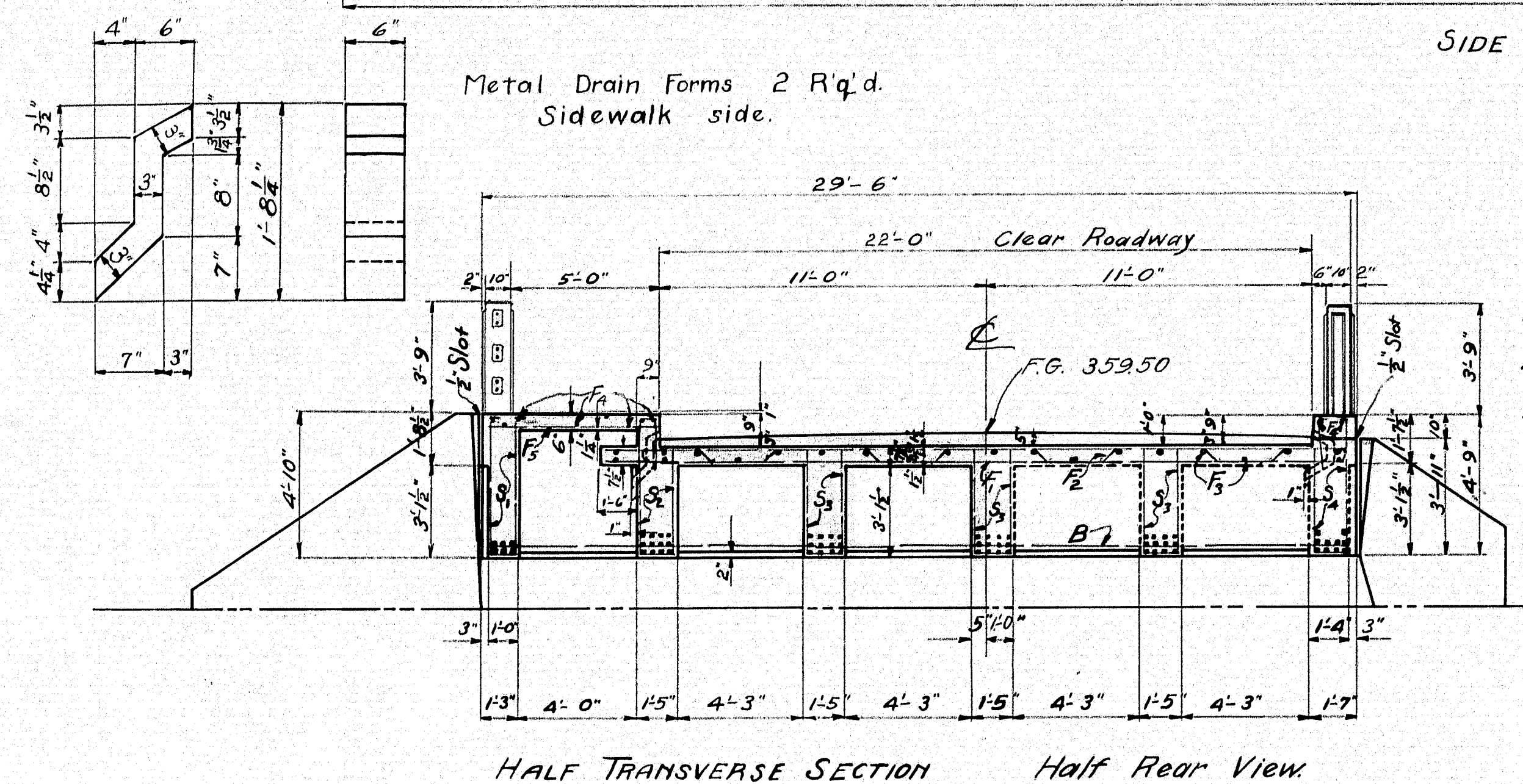
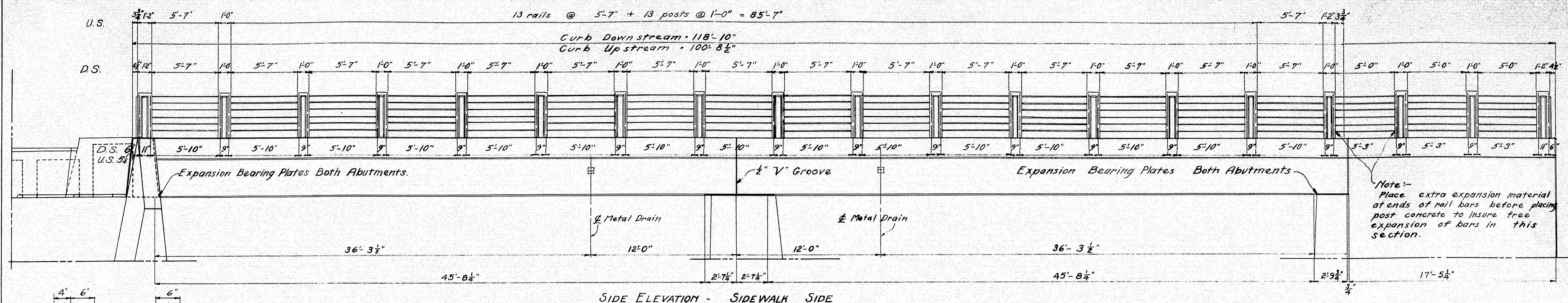
- Left Side Dimensions:**
 - Top width: 6'-0"
 - Bottom width: 3'-0"
 - Bottom width extension: 6'-2"
- Elevations (Left Side):**
 - Top Left: El. 360.17
 - Top Right: El. 354.17
 - Inner Top: El. 348.00
 - Bottom: El. 345.00
- Right Side Dimensions:**
 - Top width: 4'-0"
 - Inner Top: 3'-11"
 - Bottom: 7'-4"
 - Bottom width extension: 3'-0"
- Elevations (Right Side):**
 - Top Right: El. 359.25
 - Inner Top: El. 355.25
 - Inner Top: El. 348.00
 - Bottom: El. 345.00
- Center:** A vertical dashed line with a circle at the top, indicating the centerline.

Technical drawing of a bridge abutment showing dimensions and structural details. The drawing includes a plan view and a cross-section view. Key dimensions and labels include:

- Top Dimensions:** 2.10', 3.52'
- Left Side Dimensions:** 16'-5 3/4", 16'-6 3/4", 5'-7 7/8", 1'-1 1/2", 5'-1 1/2", 6'-1 1/2", 1'-3"
- Right Side Dimensions:** 16'-5 3/4", 16'-6 3/4", 12'-0 1/2", 11'-11 1/2", 1'-5 1/2", 1'-5 1/2", 1'-0 1/2"
- Bottom Dimensions:** 11'-5", 11'-9 3/4", 11'-11 1/2", 11'-1", 11'-1", 4'-0 1/2", 3'-1 3/4", 4'-1", 4'-6 3/4", 3'-4 1/4", 6"-3 1/4", 5"-4 1/4"
- Structural Details:** The drawing shows a cross-section of a bridge abutment with a sloped face, a horizontal top surface, and a vertical support structure. The sloped face is labeled with a 1:1 ratio. The vertical support structure is labeled with a 1:1 ratio. The horizontal top surface is labeled with a 1:1 ratio. The vertical support structure is labeled with a 1:1 ratio.

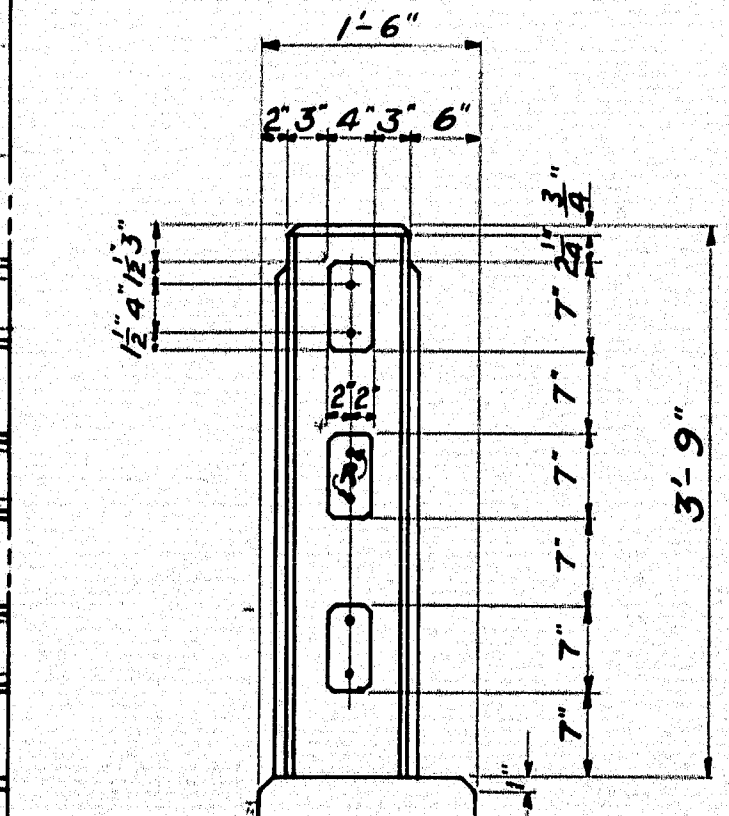
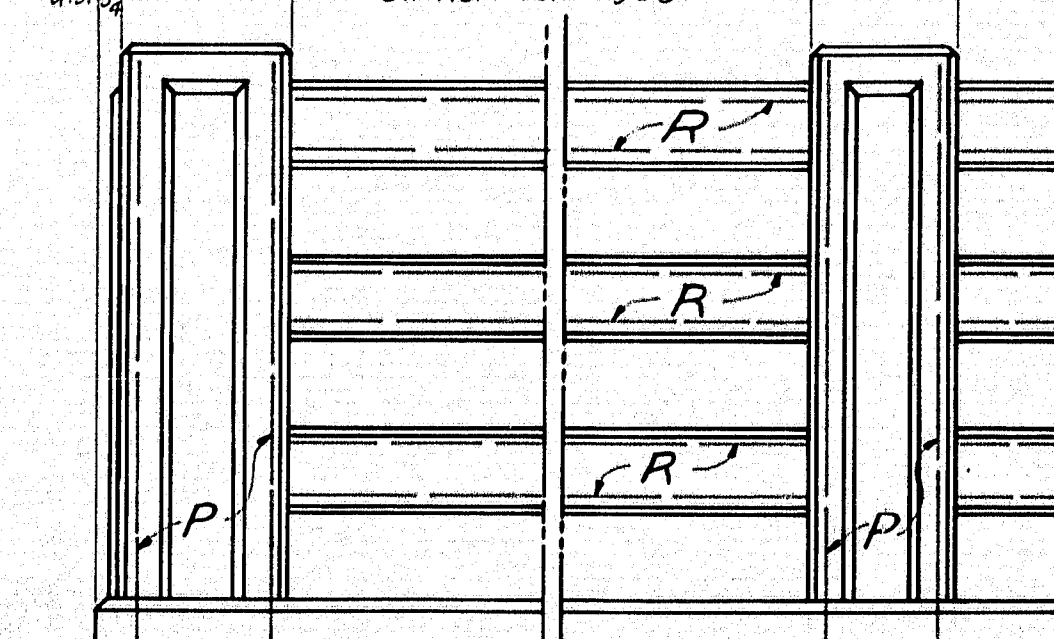
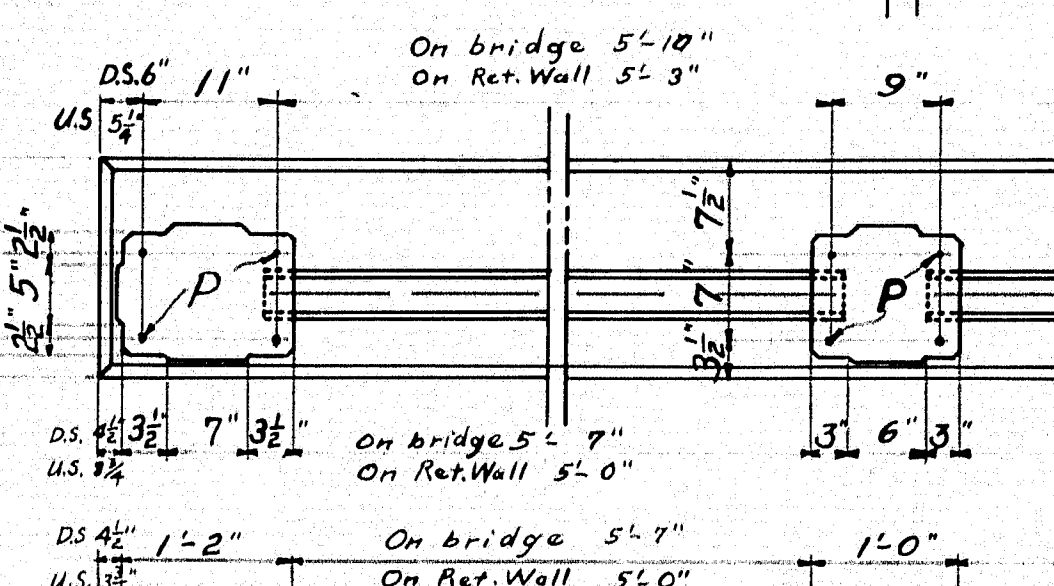
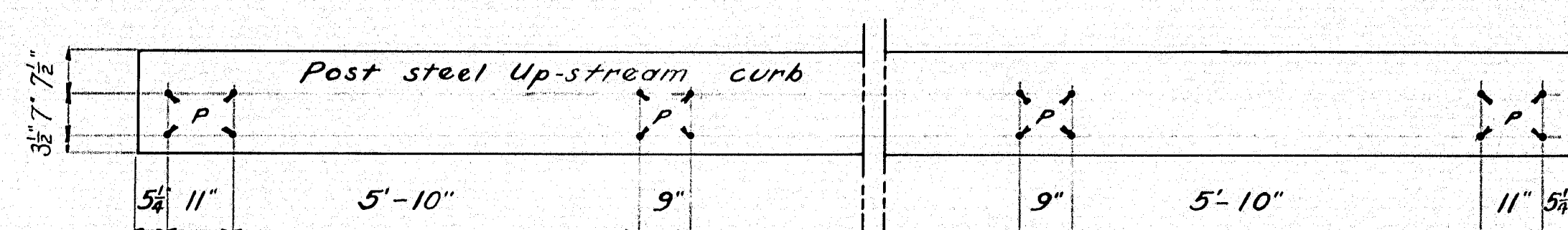
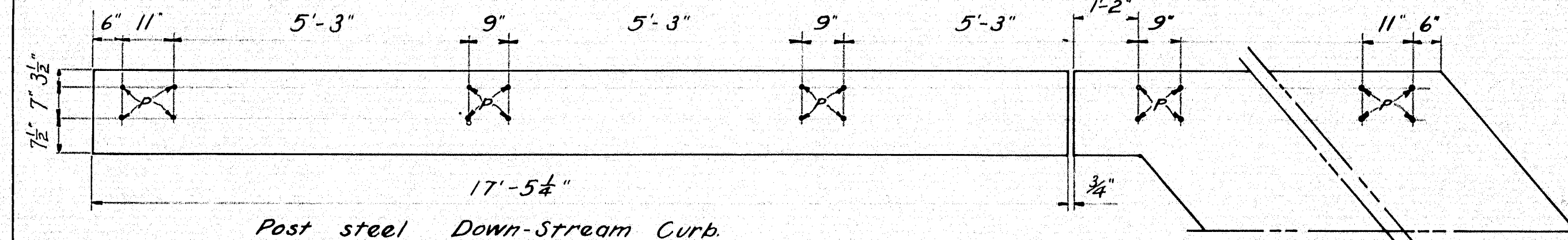
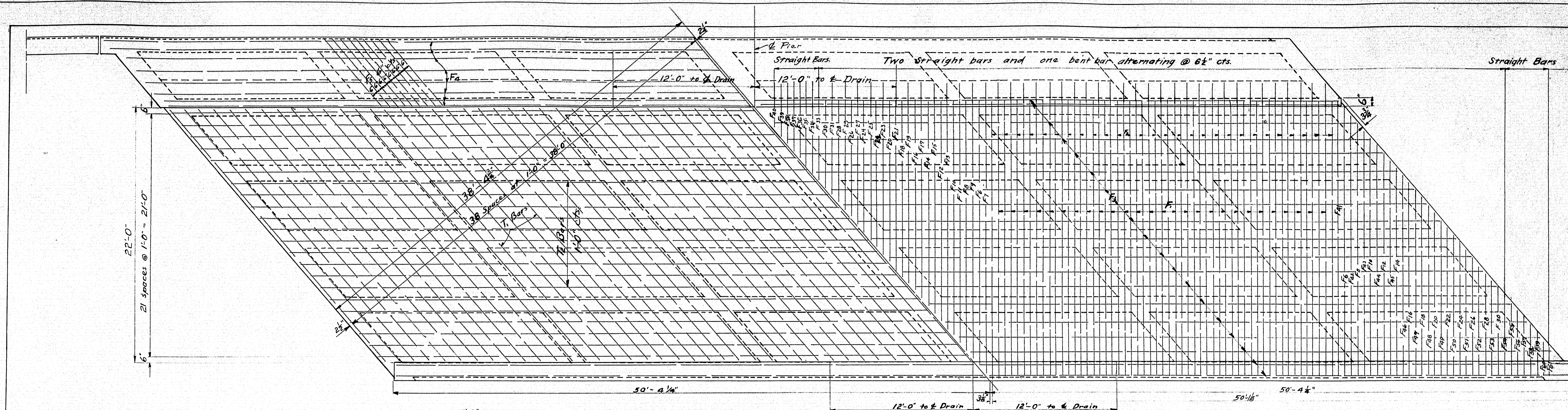
ANALYSIS
ABUTMENT No.2

MAINE HIGHWAY COMMISSION
BRIDGE DIVISION
AUSTIN BRIDGE
OVER
AUSTIN STREAM
IN THE TOWN OF
BINGHAM SOMERSET Co.
SUBSTRUCTURE DETAILS
SHEET 2 of 4 AUGUSTA Me. Mar. 27/93/



MAINE HIGHWAY COMMISSION
BRIDGE DIVISION
AUSTIN BRIDGE
OVER
AUSTIN STREAM
IN THE TOWN OF
BINGHAM SOMERSET Co.
SUPERSTRUCTURE DETAILS
SHEET 3 of 4 AUGUSTA ME Feb. 1931

Designed by B.E.L.
 Drawn by
 Traced by
 Checked by



RAIL DETAILS.

Curb and slab to be cast together. Steel for posts to be set in curb. Precast 90 rail bars 6'-0" in length and 9 bars 5'-5" in length. Place rail bars in position with ends projecting into post forms 2 1/2". Wrap end 6" with two thicknesses of light roofing felt or fibreen. Fold in ends and when post forms are removed cut away all felt or fibreen exposed. Panels on posts to be 3/4" thick. Chamfer all exposed edges of concrete 1/4" unless otherwise indicated.

STEEL SCHEDULE									
Bent Bars									
Mark	Size	No. Req'd	A	B	C	D	Total Length	Remarks	
G10	1" Ø	4	30'-4 1/2"	3'-0 1/2"	2'-8"	4'-0 1/2"	40'-11 1/2"	Roadway Exterior	
G2	1" Ø	4	40'-8 1/4"	4'-4 1/4"	4'-0"	5'-11"	55'-12"	Side Walk Ext. Girders	
G3	1" Ø	2	32'-0 1/4"	4'-4 1/4"	4'-0"	5'-11"	46'-5"	Side Walk Int. Girders	
G4	1" Ø	16	42'-0"	3'-2 1/4"	2'-10 1/4"	4'-3 1/4"	52'-11 1/4"	Int. Girders	
G5	1" Ø	16	36'-11 1/4"	2'-11 1/4"	2'-7"	3'-10 1/4"	47'-3 1/4"	"	
G6	1" Ø	16	31'-1"	2'-11 1/4"	2'-7"	3'-10 1/4"	41'-5 1/4"	"	
G7	1" Ø	16	31'-1"	2'-11 1/4"	2'-7"	3'-10 1/4"	41'-5 1/4"	"	
G8	1" Ø	4	42'-1 1/4"	3'-3 1/4"	2'-11"	4'-4 1/2"	54'-3 1/2"	Roadway Exterior	
G9	1" Ø	4	36'-5 1/4"	3'-3 1/4"	2'-11"	4'-4 1/2"	47'-9"	"	
Slabs									
F2	3/8" Ø	4	26'-10"	3'-2"	4'-1 1/4"	3'-2"	35'-5 1/4"	Slab	
F6-14	3/8" Ø	4	26'-10"	3'-2"	4'-1 1/4"	3'-2"	35'-5 1/4"	Slab	
F16-22	3/8" Ø	4	26'-10"	3'-2"	4'-1 1/4"	3'-2"	35'-5 1/4"	Slab	
F24-30	3/8" Ø	4	26'-10"	3'-2"	4'-1 1/4"	3'-2"	35'-5 1/4"	Slab	
F24	3/8" Ø	4	6'-5 1/2"	12'-4"			18'-9 1/2"	Slab	
F26	3/8" Ø	4	5'-2"	11'-0 1/2"			16'-2 1/2"	Slab	
F28	3/8" Ø	4	3'-10 1/2"	9'-9"			12'-9 1/2"	Slab	
F30	3/8" Ø	4	2'-7"	8'-3 1/2"			10'-10 1/2"	Slab	
RAIL DETAILS									
S1	1/2" Ø	10	10'-11 1/2"				10'-11 1/2"	RAIL	
S2	1/2" Ø	11	11'-10"				11'-10"	RAIL	
S3	1/2" Ø	12	12'-2"				12'-2"	RAIL	
S4	1/2" Ø	13	13'-2"				13'-2"	RAIL	

STEEL SCHEDULE									
Straight Bars									
Mark	Size	No. Req'd	Length	Remarks	Mark	Size	No. Req'd	Length	Remarks
G1	1" Ø	14	50'-7"	Ext. Girders	F40	3/8" Ø	4	3'-7 1/2"	Slabs
G4	1" Ø	48	50'-7"	Int. Girders	F41	"	"	23'-5"	"
F1	3/8" Ø	108	25'-3"	Slabs	F42	"	"	22'-1 1/2"	"
F7	"	4	24'-11"	"	F43	"	"	20'-10"	"
F9	"	4	23'-7 1/2"	"	F44	"	"	19'-6 1/2"	"
F11	"	4	22'-4"	"	F45	"	"	18'-3"	"
F13	"	4	21'-0 1/2"	"	F46	"	"	16'-11 1/2"	"
F15	"	4	19'-9"	"	F47	"	"	15'-8"	"
F17	"	4	18'-5 1/2"	"	F48	"	"	14'-4 1/2"	"
F19	"	4	17'-2"	"	F49	"	"	13'-1"	"
F21	"	4	15'-10 1/2"	"	F50	"	"	11'-9 1/2"	"
F23	"	4	14'-7"	"	F51	"	"	10'-6"	"
F25	"	4	13'-3 1/2"	"	F52	"	"	9'-2 1/2"	"
F27	"	4	12'-0"	"	F53	"	"	7'-11"	"
F29	"	4	10'-8 1/2"	"	F54	"	"	6'-7 1/2"	"
F31	"	4	9'-5"	"	F55	"	"	5'-11 1/2"	"
F33	"	4	8'-1 1/2"	"	F56	"	"	5'-4"	"
F35	"	4	7'-5 1/2"	"	F57	"	"	4'-10 1/2"	"
F37	"	4	6'-10"	"	F58	"	"	4'-0 1/2"	"
F39	"	4	6'-2 1/2"	"	F59	"	"	3'-9 1/2"	"
F41	"	4	5'-6 1/2"	"	F60	"	"	2'-9"	"
F43	"	4	4'-10 1/4"	"	F61	"	"	2'-1 1/2"	"
F45	"	4	4'-3"	"					
F47	3/8" Ø	42	50'-0"						
F49	3/8" Ø	20	50'-2"	Side Walk Slab + Roadway Curb					
F51	3/8" Ø	155	7'-7"	Side Walk Slab					
F53	3/8" Ø	2	17'-3"	Curb Ret. Wall					
F55	1" Ø	24	37'-6"	Cross Beams					
F57	3/4" Ø	140	4'-9"	Posts					
F59	3/8" Ø	180	5'-10"	Rails					
F61	3/8" Ø	18	5'-3"	Rails (Ret. Wall)					
T1	3/8" Ø	78	28'-6"	Wearing Surface					
T2	3/8" Ø	44	49'-10"	Wearing Surface					
H	3/4" Ø	48	8'-0"	Abutments					

Steel to be plain bars of structural grade.
 All dimensions are to center line of bars.

MAINE HIGHWAY COMMISSION
 BRIDGE DIVISION
 AUSTIN BRIDGE
 OVER
 AUSTIN STREAM
 IN THE TOWN OF
 BIRMGHAM
 SOMERSET Co.
 SUPERSTRUCTURE DETAILS
 SHEET 4 of 4 AUGUSTA Me., Feb. 14, 1931