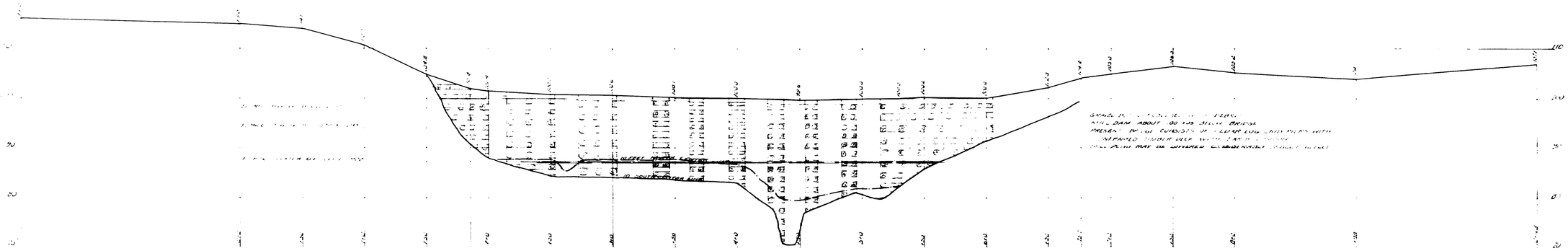
PLAN



PROFILE ON CENTER LINE

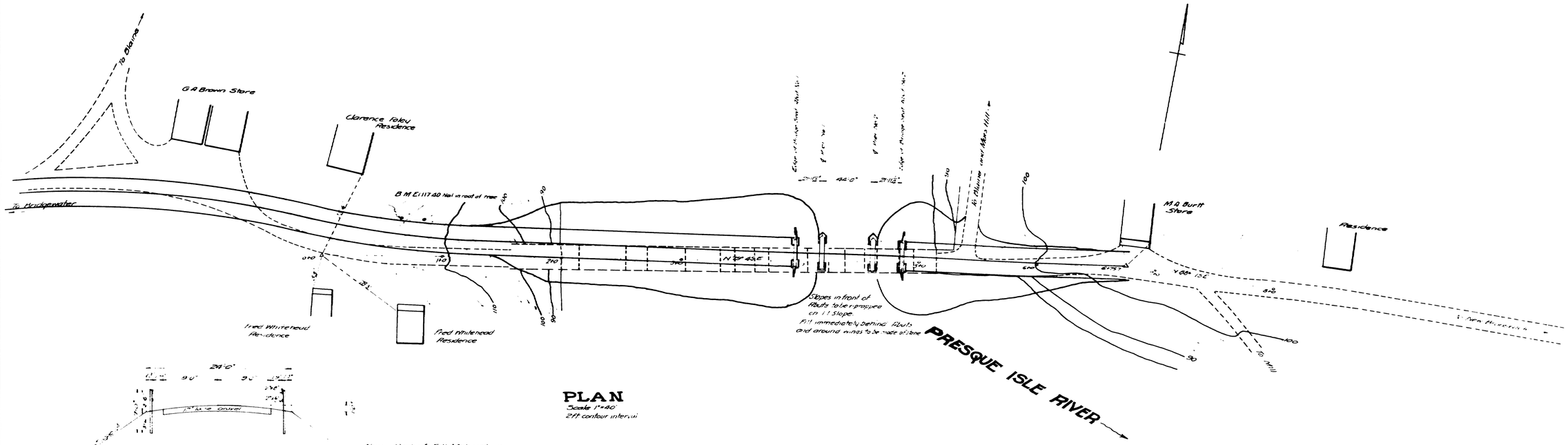
MAINE HIGHWAY COMMISSION
BRIDGE DIVISION

BOUNDARY BRIDGE
OVER
PRESQUE ISLE RIVER
IN THE TOWN OF
BRIDGEWATER, AROOSTOOK CO.
SURVEY PLAN

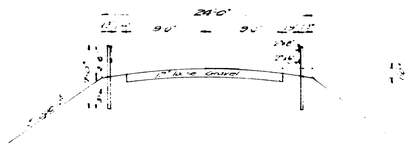
Jan 11, 1923

4-123

0 1 2 3 4 5 INCHES

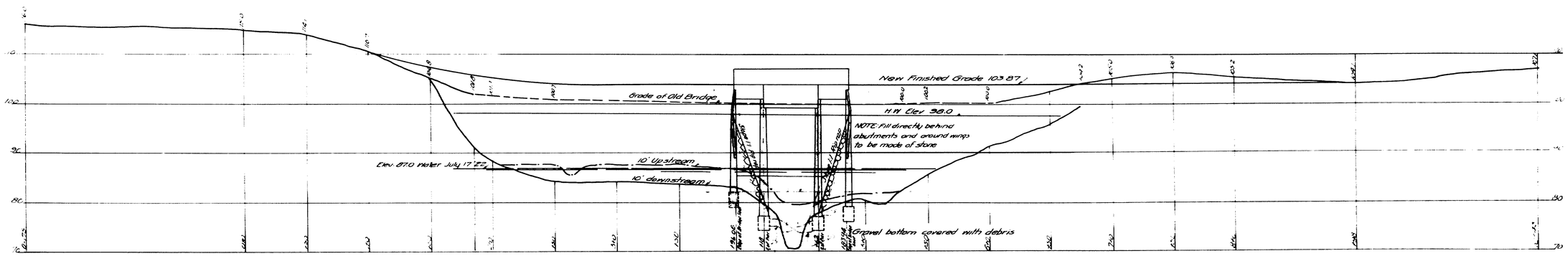


PLAN
Scale 1"=40'
2 ft contour interval



FILL SECTION

Note: 1/2 of Fill Material is to be taken from approaches for Guard Rail. Detail see Standard Plans



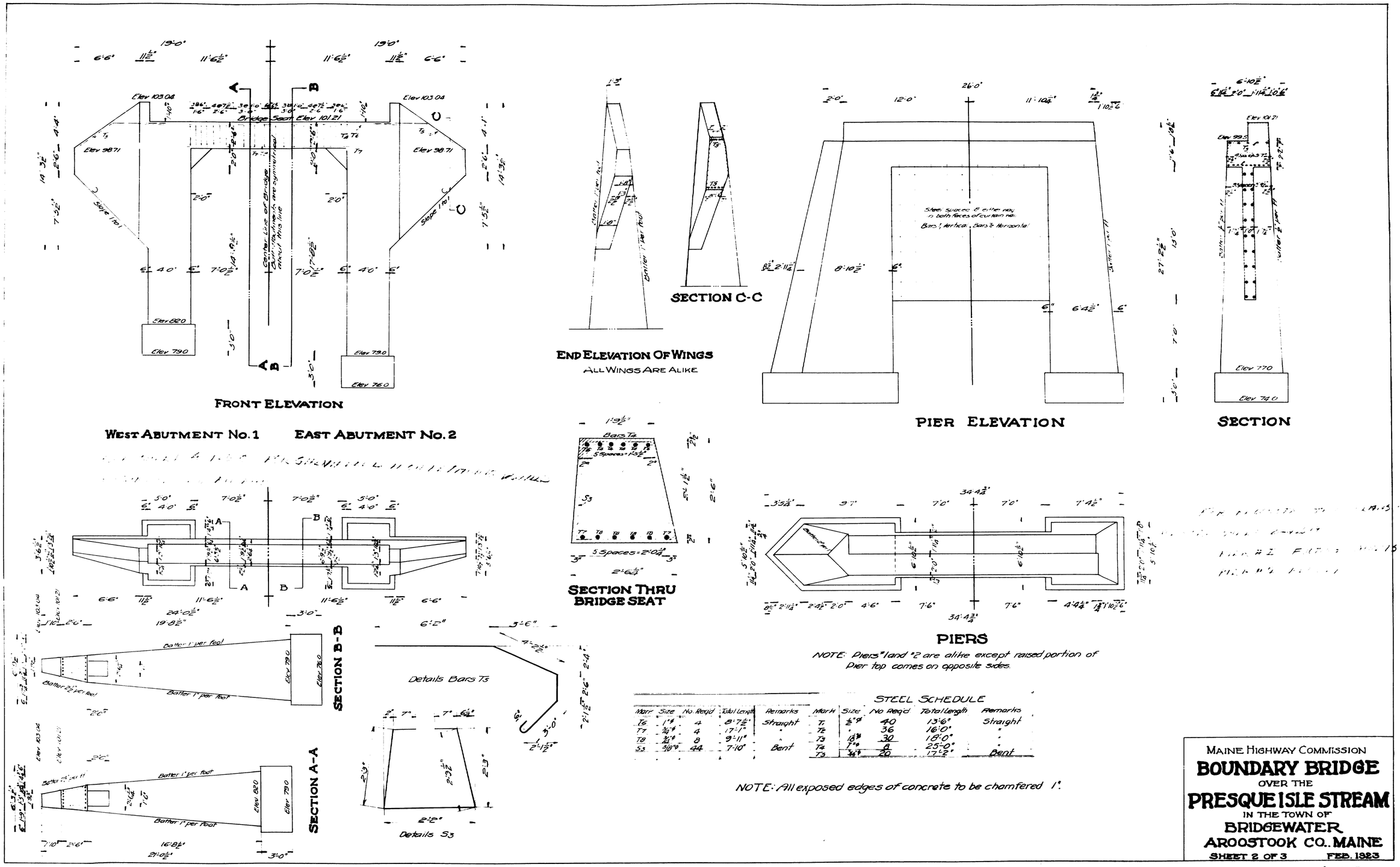
PROFILE ON CENTER LINE
Scales Hor. 1"=40' Ver 1"=10'

MAINE HIGHWAY COMMISSION
BOUNDARY BRIDGE
OVER THE
PRESQUE ISLE STREAM
IN THE TOWN OF
BRIDGEWATER
AROOSTOOK CO., MAINE
SHEET 1 OF 3 FEB. 1923

4-124

Drawn by G.F.H.B.
by J.W.D.

0 1 2 3 4 5 INCHES



NOTE: Piers #1 and #2 are alike except raised portion of Pier top comes on opposite sides.

STEEL SCHEDULE

Mark	Size	No. Req'd	Total Length	Remarks	Mark	Size	No Req'd	Total Length	Remarks
T6	1"ϕ	4	8'-7½"	Straight	T1	½"ϕ	40	13'-6"	Straight
T7	¾"ϕ	4	17'-1"	"	T2	"	36	16'-0"	"
T8	¾"ϕ	8	9'-11"	"	T3	18"ϕ	30	18'-0"	"
S3	5/8"ϕ	44	7'-10"	Bent	T4	1"ϕ	8	25'-0"	"
					T5	¾"ϕ	20	17'-2"	Bent

NOTE: All exposed edges of concrete to be chamfered 1".

MAINE HIGHWAY COMMISSION

BOUNDARY BRIDGE

OVER THE

PRESQUE ISLE STREAM

IN THE TOWN OF

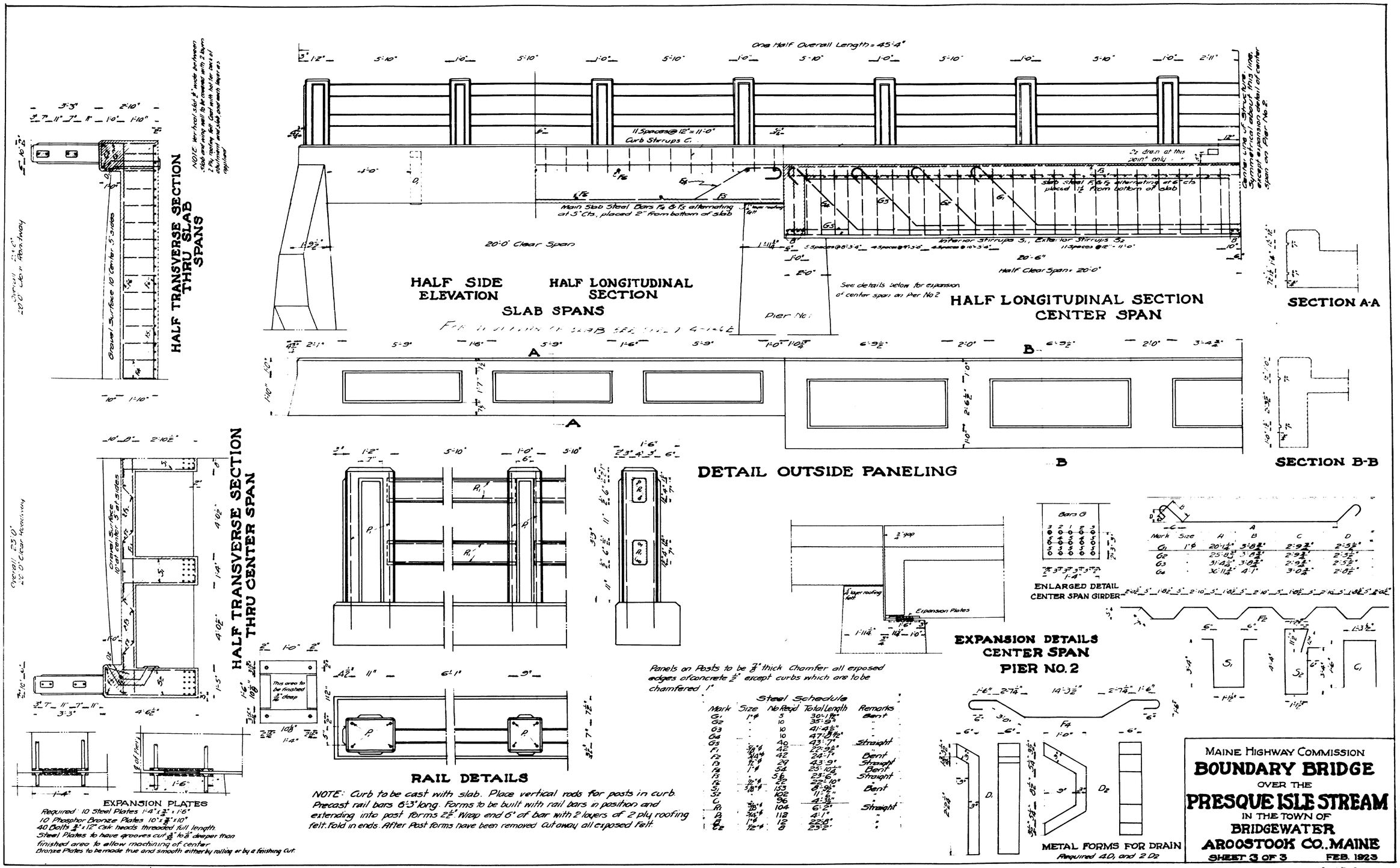
BRIDGEWATER

AROOSTOOK CO., MAINE

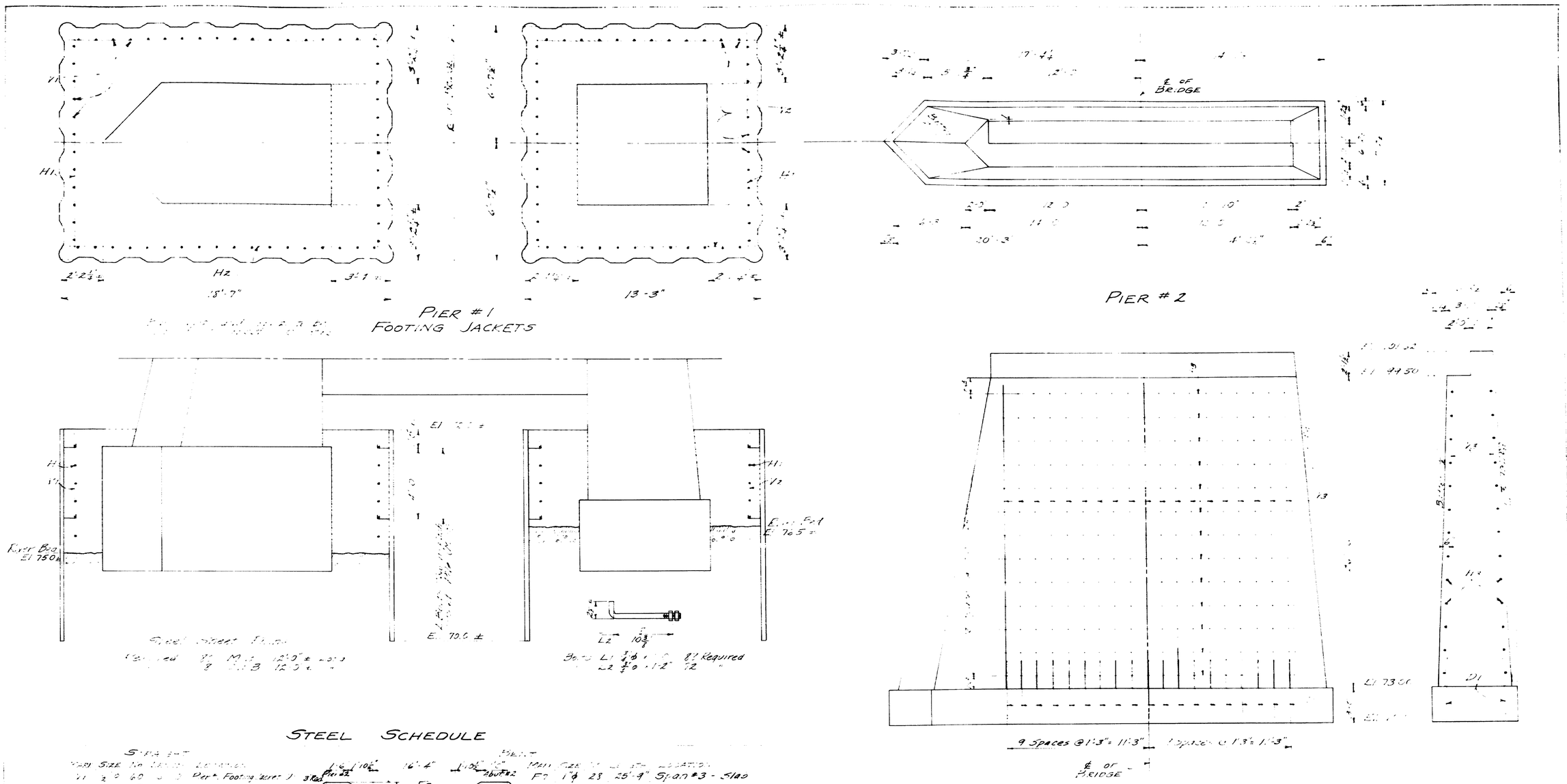
SHEET 2 OF 3 FEB. 1923

4-125

0 1 2 3 4 5 INCHES



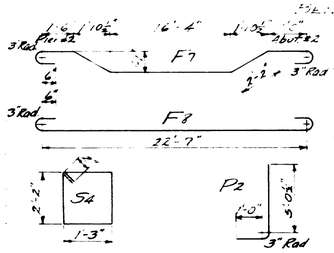
One Half Overall Length = 45'-4"
11 Spaces @ 12" = 11'-0"
Curb Stirrups C1
Main Slab Steel Bars F4 & F5 alternating at 5" Cts, placed 2" from bottom of slab
Slab Steel F1 & F2 alternating at 6" cts placed 1½" from bottom of slab
Interior Stirrups S1, Exterior Stirrups S2
20'-0" Clear Span
20'-6"
Half Clear Span = 20'-0"
See details below for expansion of center span on Pier No 2
Pier No 1
HALF SIDE ELEVATION
HALF LONGITUDINAL SECTION
SLAB SPANS
HALF LONGITUDINAL SECTION CENTER SPAN
SECTION A-A
SECTION B-B
DETAIL OUTSIDE PANELING
HALF TRANSVERSE SECTION THRU SLAB SPANS
HALF TRANSVERSE SECTION THRU CENTER SPAN
Gravel Surface 10' Center 5' sides
Overall 23'-0" 20'-0" Clear Roadway
This area to be finished 3/16" deep
EXPANSION PLATES
Required 10 Steel Plates 1'-4" x 3/4" x 1'-6"
10 Phosphor Bronze Plates 10" x 3/8" x 10"
40 Bolts 3/4" x 12" Csk. heads threaded full length.
Steel Plates to have grooves cut 3/32" to 1/8" deeper than finished area to allow machining of center
Bronze Plates to be made true and smooth either by rolling or by a finishing cut.
RAIL DETAILS
NOTE: Curb to be cast with slab. Place vertical rods for posts in curb. Precast rail bars 6'-3" long. Forms to be built with rail bars in position and extending into post forms 2½". Wrap end 6" of bar with 2 layers of 2 ply roofing felt. Fold in ends. After Post forms have been removed cut away all exposed felt.
Panels on Posts to be 7/8" thick Chamfer all exposed edges of concrete ½" except curbs which are to be chamfered 1"
Steel Schedule
Mark Size No Reqd Total Length Remarks
G1 1"φ 5 30'-1½" Bent
G2 " 10 35'-9" "
G3 " 10 41'-4½" "
G4 " 10 47'-8½" "
G5 " 40 43'-7" Straight
F1 5/8"φ 42 22'-9½" "
F2 3/4"φ 42 24'-1" Bent
F3 ½"φ 29 43'-9" Straight
F4 1"φ 54 25'-10¼" Bent
F5 " 56 23'-6" Straight
F6 ½"φ 22 22'-10" "
S1 5/8"φ 153 8'-9½" Bent
S2 " 102 11'-6" "
C1 " 96 4'-3½" "
R1 5/8"φ 104 6'-2" Straight
P1 3/4"φ 112 4'-1" "
B 1"φ 12 22'-8" "
C2 ½"φ 8 23'-2" "
Bars G
ENLARGED DETAIL CENTER SPAN GIRDER
Expansion Plates
EXPANSION DETAILS CENTER SPAN PIER NO. 2
METAL FORMS FOR DRAIN
Required 4D1 and 2D2
MAINE HIGHWAY COMMISSION
BOUNDARY BRIDGE
OVER THE
PRESQUE ISLE STREAM
IN THE TOWN OF
BRIDGEWATER
AROOSTOOK CO., MAINE
SHEET 3 OF 3
FEB. 1923
4-126
Drawn by C.-H.B.
by J.W.D.



STEEL SCHEDULE

Mark	Size	No.	Length	Location
V1	1/2 ϕ	60	[illegible]	Pier #1 Footing Jacket
V2	"	28	[illegible]	"
H1	"	34	7-4	" Sp
H2	"	24	[illegible]	" US
H3	"	26	23-6	Pier #2
V3	5/8 ϕ	14	10-6	" Spliced 2'-9"
D1	"	38	5-0	"
F9	"	34	22-8	Span #3 - Slab
C3	1/2 ϕ	4	23-0	" Curbs
R2	5/8 ϕ	32	6-2	" Rail Bars

Mark	Size	No.	Length	Location
F7	1" ϕ	28	25'-9"	Span #3 - Slab
F8	"	27	25-2	"
S4	1/2 ϕ	48	7-2	" Curbs
P2	3/4 ϕ	32	6-5 1/4	" Rail Posts



All reinforcing to be plain bars of structural grade. Dimensions are to ℄ of bars.

PLAN: Jackman | TOWN: 02-08
BRIDGE: 3734

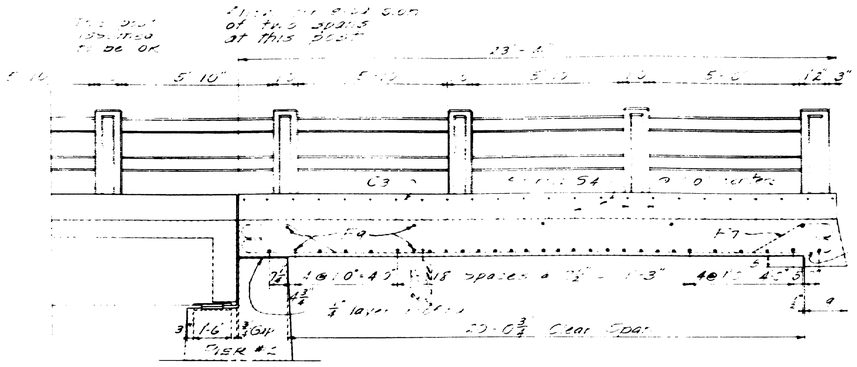
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

BOUNDARY BRIDGE
OVER
PRESQUE ISLE STREAM
IN THE TOWN OF
BRIDGEWATER
AROOSTOOK COUNTY

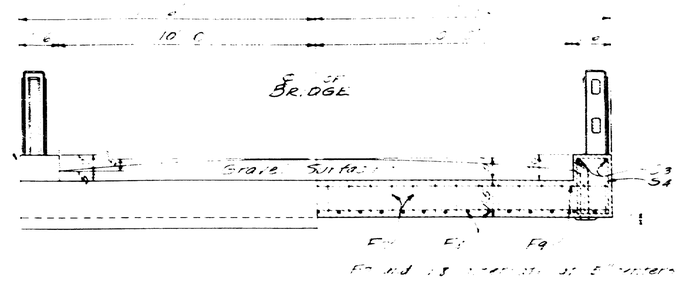
PIER #1 FOOTING JACKETS & PIER #2
SHEET 1 OF 2 AUGUSTA, ME. JULY, 1940

4-126 A

0 1 2 3 4 5 INCHES

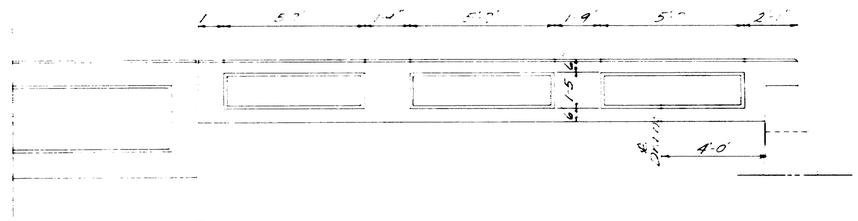


LONGITUDINAL SECTION

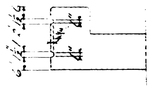


HALF END ELEVATION

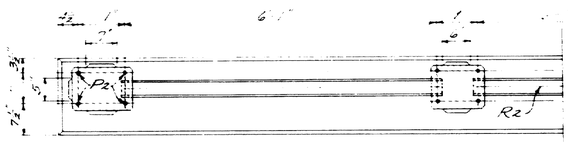
HALF TRANSVERSE SECTION



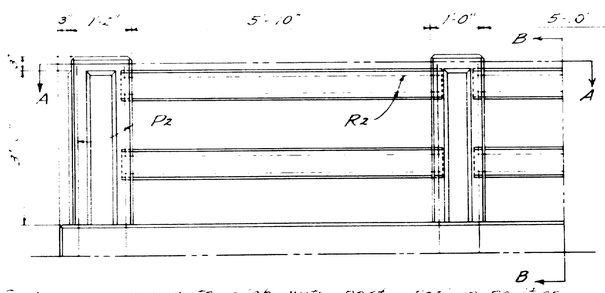
DETAIL OUTSIDE PANELING

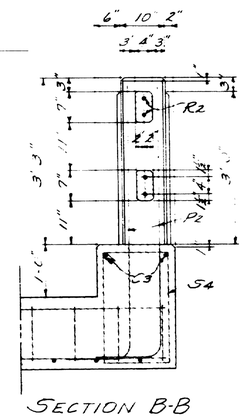


METAL DRAIN FORM



SECTION A-A





[illegible] with slab with post steel in position. Precast [illegible] bars 6'-3" long. Post forms [illegible] be built [illegible] bars in position. Bars to extend 2½" into post forms and end 6" of bars to be wrapped with roofing. Panel [illegible] posts to be ⅛" thick chamfer all exposed edges of concrete ½" unless otherwise indicated. After post forms have been removed cut away all exposed roofing.

RAIL DETAILS

SECTION B-B

Beckman | Town 12 05
Bridge 373-4

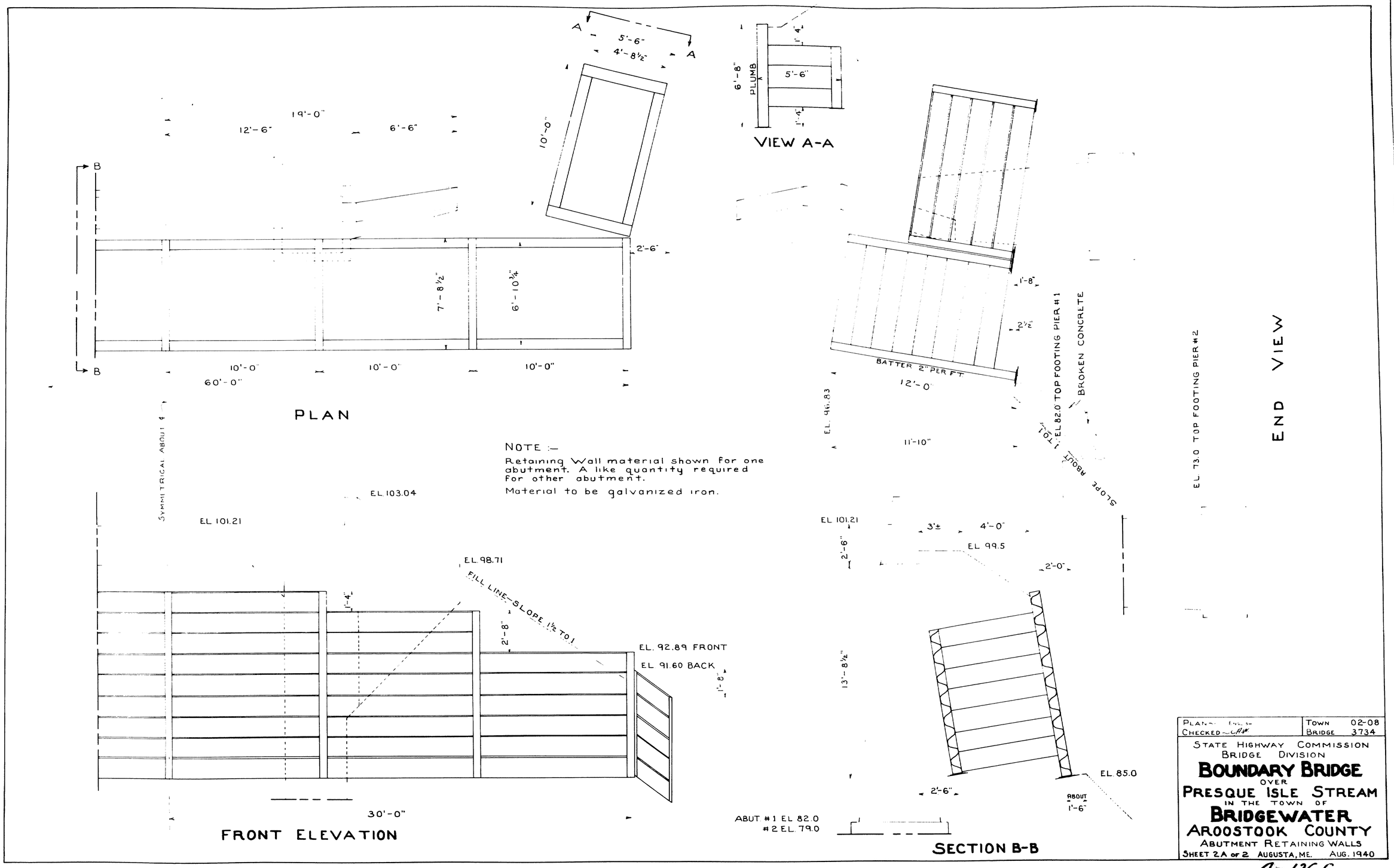
STATE HIGHWAY COMMISSION
BRIDGE DIVISION

BOUNDARY BRIDGE
OVER
PRESQUE ISLE STREAM
IN THE TOWN OF
BRIDGEWATER
AROOSTOOK COUNTY
SPAN # 3

SHEET 2 OF 2 AUGUSTA, ME. JULY, 1940

4-126 B

0 1 2 3 4 5 INCHES



PLAN — ENGLISH CHECKED — CAW	TOWN 02-08 BRIDGE 3734

STATE HIGHWAY COMMISSION
BRIDGE DIVISION

BOUNDARY BRIDGE
OVER
PRESQUE ISLE STREAM
IN THE TOWN OF
BRIDGEWATER
AROOSTOOK COUNTY
ABUTMENT RETAINING WALLS
SHEET 2A OF 2 AUGUSTA, ME. AUG. 1940

4-126 C

0 1 2 3 4 5 INCHES