

STATE OF MAINE STATE HIGHWAY COMMISSION

PLAN AND PROFILE

ALBION KENNEBEC COUNTY FEDERAL AID PROJECT NO. N.R.S.-163 TOTAL LENGTH .017 MILES

CONVENTIONAL SIGNS		
STATE OR NATIONAL LINE	-----	SURVEY LINE
COUNTY LINE	-----	CULVERT
TOWN LINE	-----	DROP INLET
UNFENCED PROPERTY	-----	TROLLEY POLE
FENCE	-----	POWER POLE
RIGHT OF WAY LINE	-----	TEL. POLE
TRAVELED WAY	-----	MARSH
RAILROAD	-----	TREES
RETAINING WALL	-----	STONE WALL

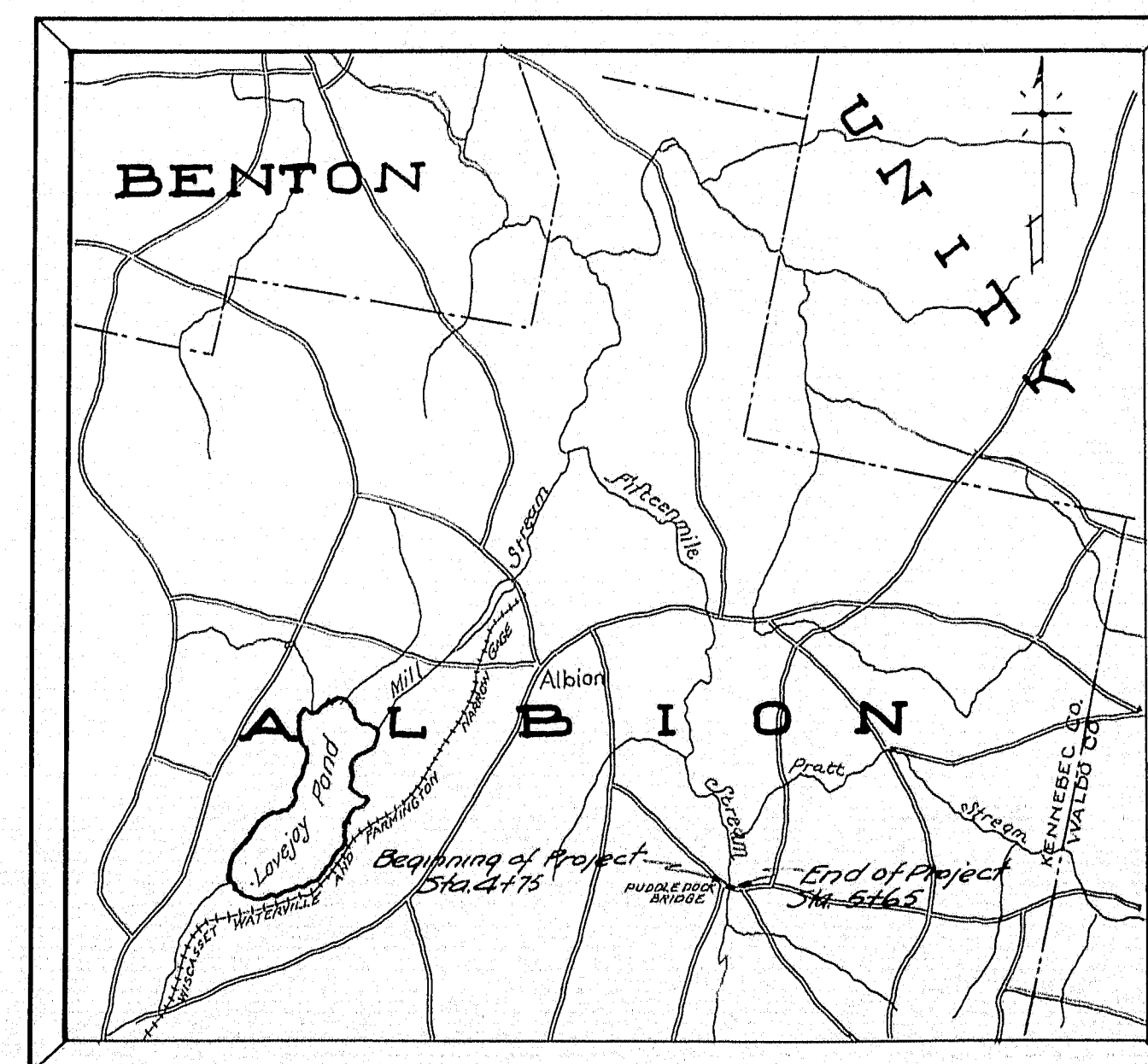
INDEX OF SHEETS	
SHEET NO. 1.	TITLE SHEET
SHEET NO. 2.	SURVEY
SHEET NO. 3.	SUBSTRUCTURE & FLOOR DETAIL
SHEET NO. 4.	STRUCTURAL DETAILS
SHEET NO. 5.	DETAIL COLUMNS & BRACING

All work contemplated by this contract shall be governed by, and in conformity with, the specifications accompanying these plans.

CONCRETE CLASSIFICATION

C- Substructure

"The above specifications wherein not in conformity with the Federal government's Rules and Regulations for work done under the National Industrial Recovery Act relative to the furnishing of all materials by the contractor, or otherwise not in conformity therewith, are hereby amended to meet said Rules and Regulations of the Federal Government."



PORTION OF KENNEBEC COUNTY
SCALE 1/62,500

APPROVED:
MAINE STATE HIGHWAY COMMISSION

Frank A. Peabody
Chairman

Paul C. Thurston

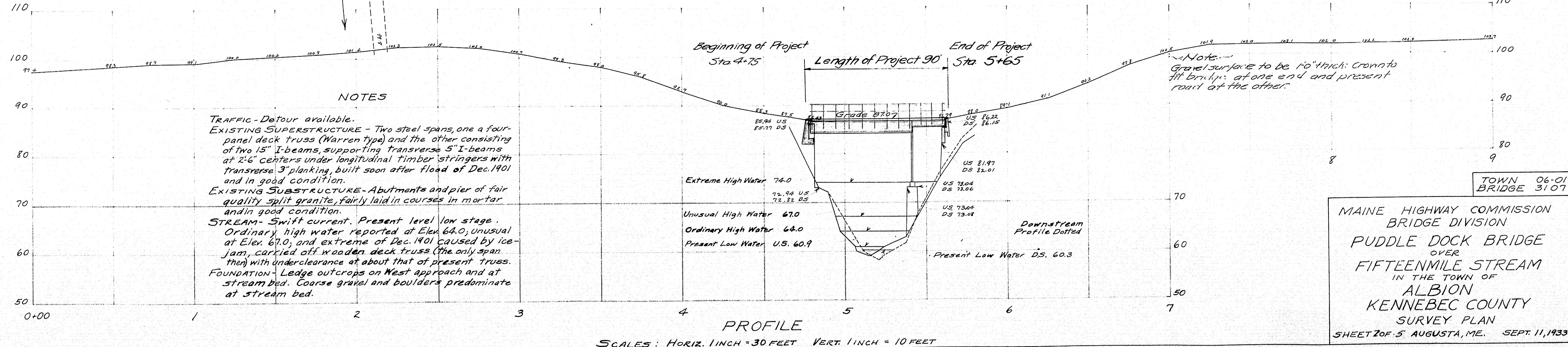
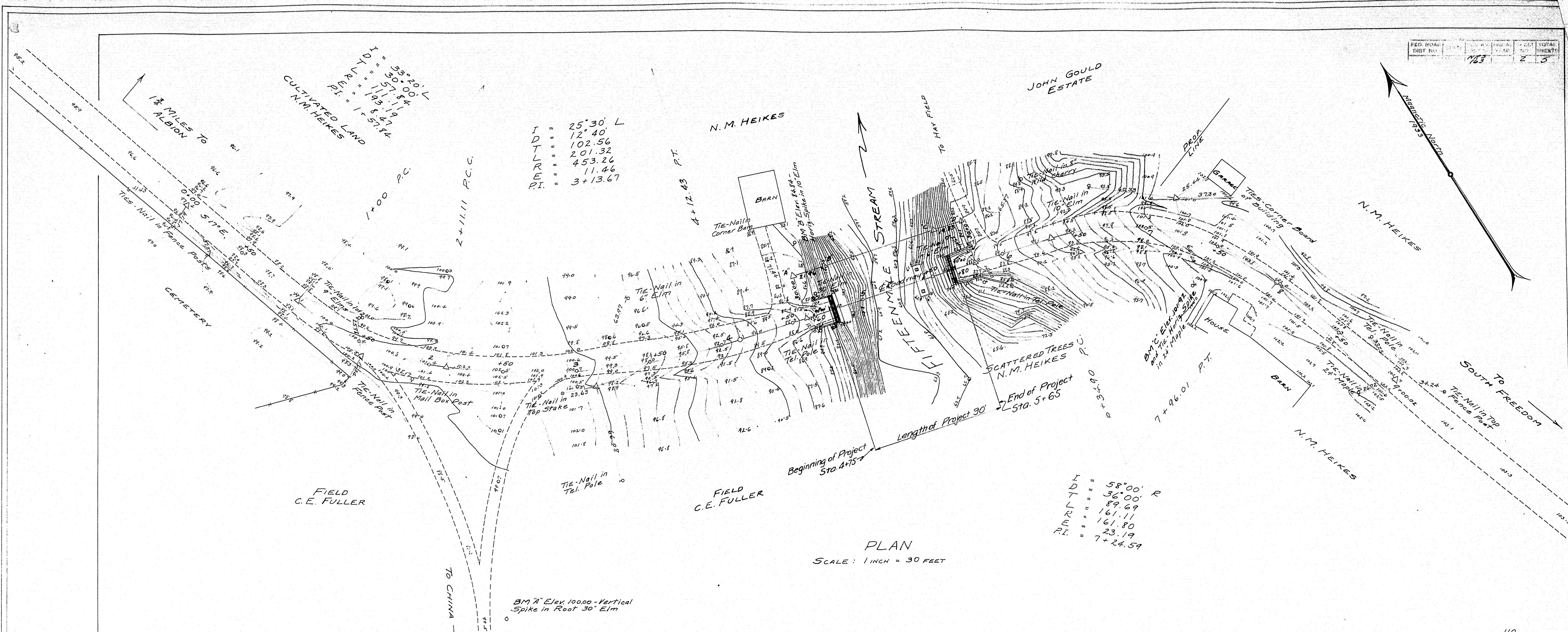
Frederic J. Sumner
Chief Engineer

APPROVED:
U. S. BUREAU OF PUBLIC ROADS

[Signature]
DISTRICT ENGINEER

[Signature]
CHIEF ENGINEER

[Signature]
DIRECTOR



MAINE HIGHWAY COMMISSION
BRIDGE DIVISION
PUDDLE DOCK BRIDGE
OVER
FIFTEENMILE STREAM
IN THE TOWN OF
ALBION
KENNEBEC COUNTY
SURVEY PLAN
SHEET 2 OF 5 AUGUSTA, ME. SEPT. 11, 1933

Surveyed by: Chapman Sept. 1, 1933
Plotted and Traced by: Chapman

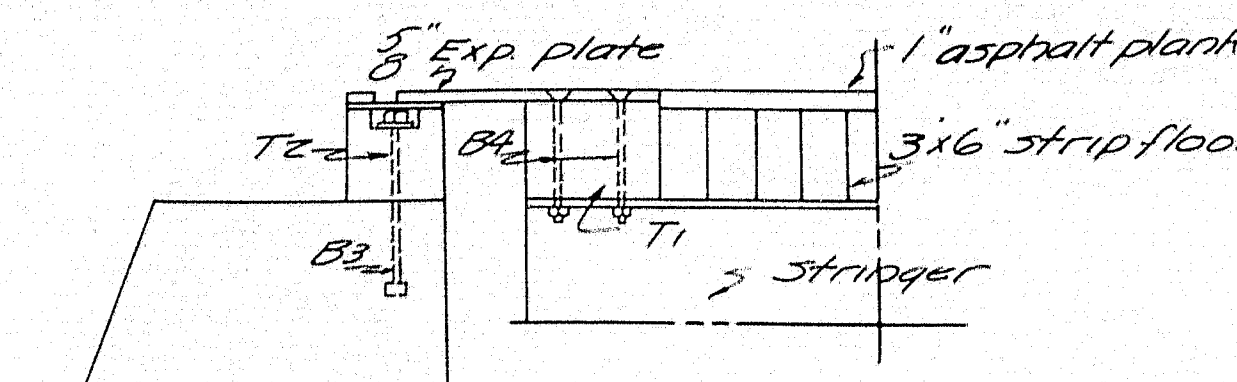
TIMBER SCHEDULE

Mark	No	Qty	Size	Length	Remarks
T1	2	2	6" x 8"	14'-0"	Floor of Abuts.
T2	2	2	6" x 6"	17'-11 1/2"	Backwalls- Abuts.
T3	24	24	4" x 4"	0'-6"	Curbs/Rail Post
CB1	2	2	6" x 6"	15'-3 1/2"	Curbs
CB2	6	6	6" x 6"	18'-0"	"
CB3	2	2	6" x 6"	12'-5 1/2"	"
SC1	56	56	4" x 6"	1'-0"	Scuppers
3F	375	375	3" x 6"	14'-0"	Strip floor

Reqd 1550 sq. ft. one inch asphalt plank

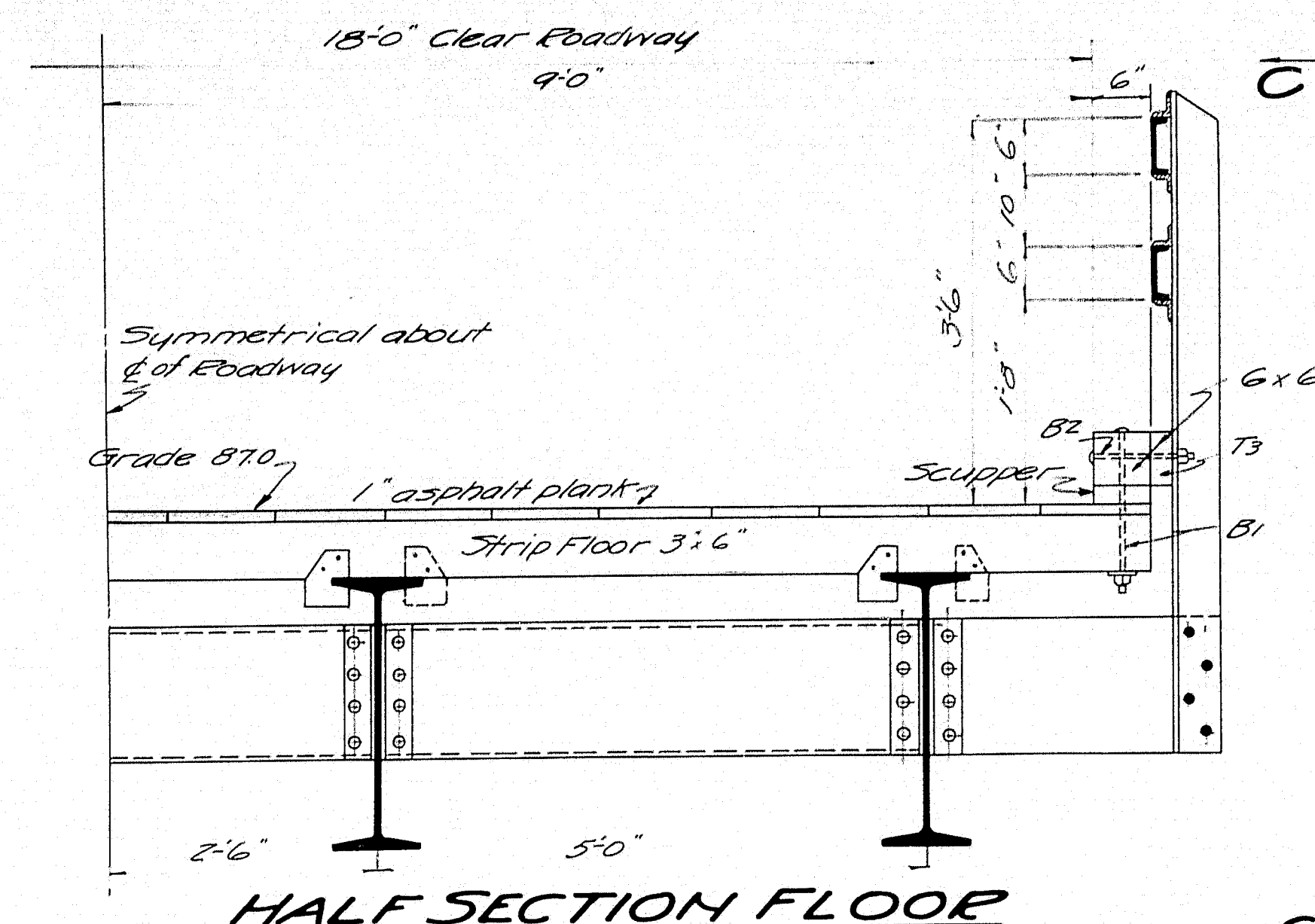
All timber shall be seasoned merchantable red spruce, brush treated with two coats of creosote.

Asphalt plank shall be some standard brand approved by the Engineer. The material shall be laid lengthwise of the bridge with staggered close joints, fastened to the timber with 16d nails. When the temperature is lower than 40°F, the asphalt plank shall be heated to 50°F, or higher to permit proper laying.

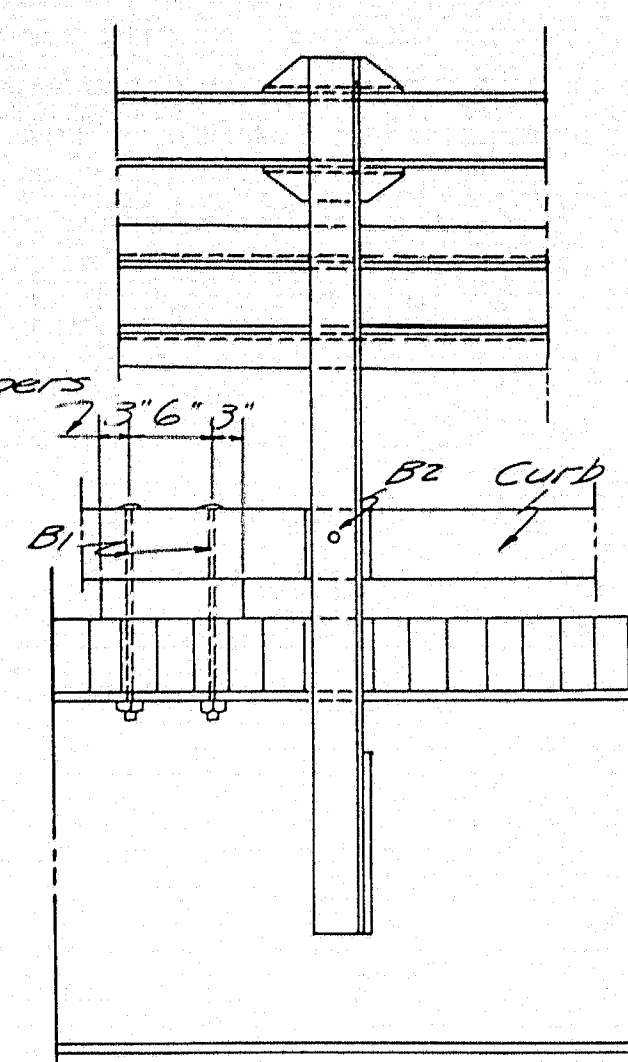


FLOOR DETAIL AT ABUTMENTS

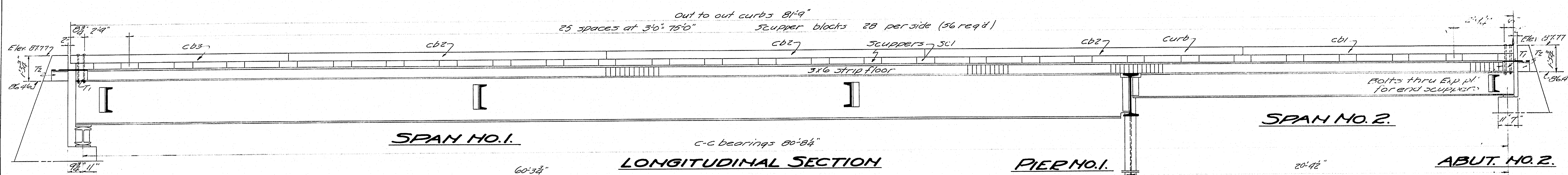
FLOOR CONSTRUCTION
The strips shall be placed on edge and at right angles to the center line of roadway. Each strip shall be spiked to the adjacent strip at intervals of 2'-0". Spikes shall be of sufficient length to pass thru two strips and at least half way thru the third. In addition anchor plates of some standard make approved by the Engineer shall be used to attach the floor strips to the stringers.
Anchor plates shall be placed so as to be not more than 9" apart along the stringer and shall be placed on alternate sides of the beams.
Anchor plates shall be punched to take 40d wire nails.



HALF SECTION FLOOR



VIEW C-C



LONGITUDINAL SECTION

BOLT LIST

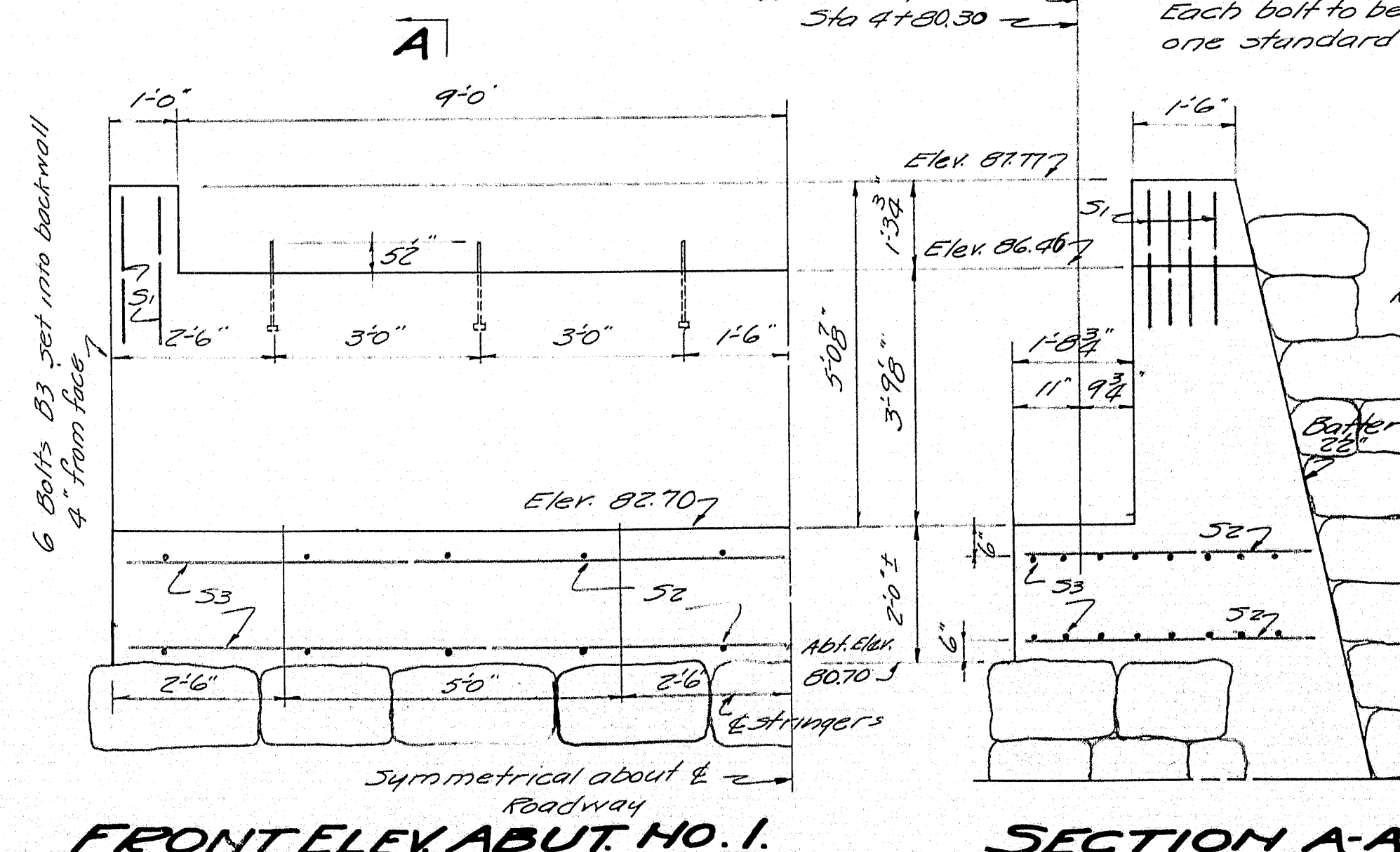
Mark	Size	No	Length	Type	Remarks
B1	3/4"	112	1'-5"	Carriage	Curbs-Scuppers
B2	3/4"	24	0'-10"	"	Rail post to curb
B3	3/4"	12	1'-3"	Machine	Back wall timbers
B4	3/4"	16	0'-8"	"	End floor timbers

Required 124 std. plate washers for 3/4" bolts. Each bolt to be equipped with one standard nut.

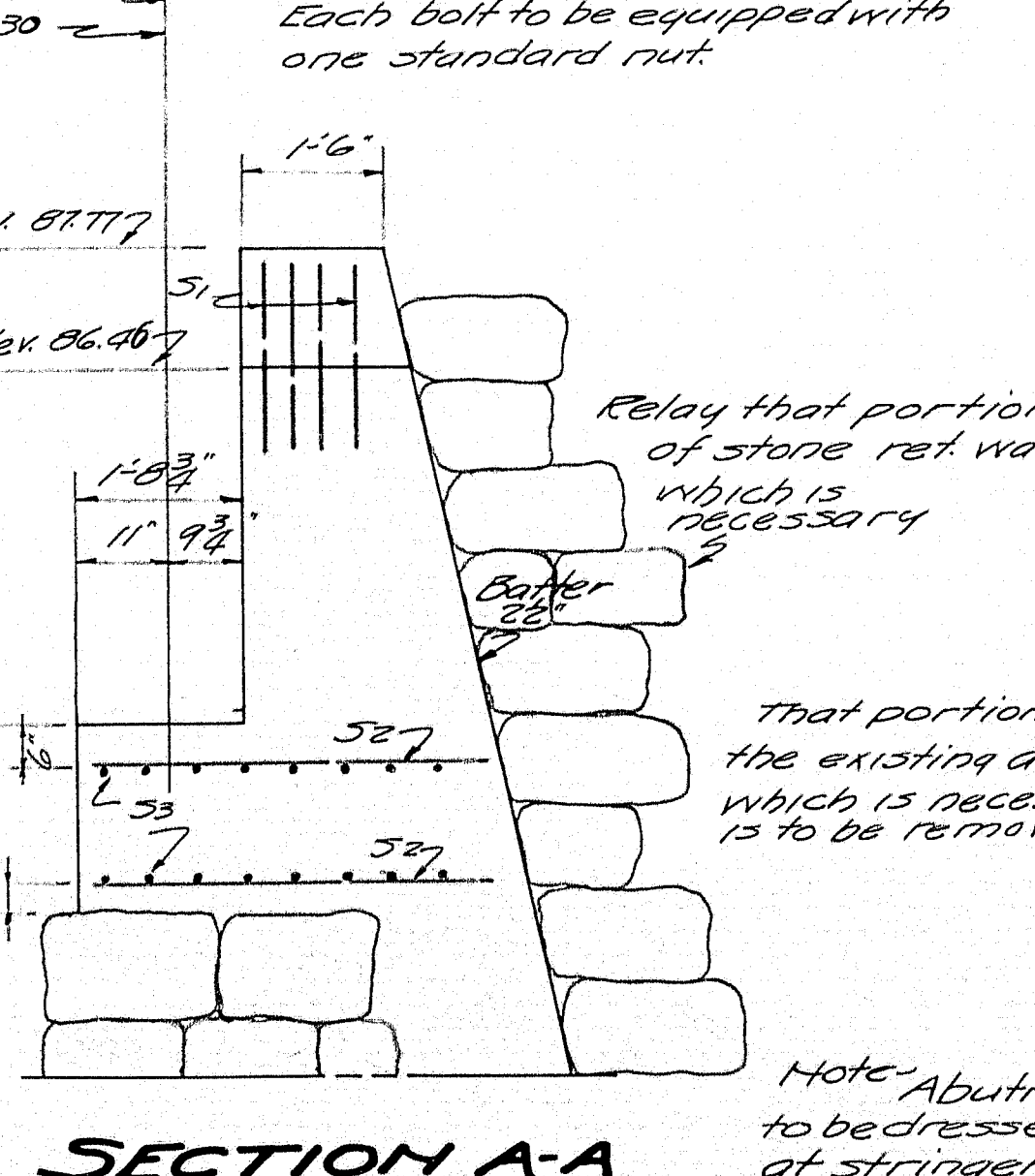
REINFORCING STEEL

Mark	Size	No	Length	Location
S1	3/4"	32	2'-3"	Curbs
S2	3/4"	20	4'-0"	Abut. No. 1.
S3	3/4"	26	14'-9"	Abuts. 1 & 2
S4	3/4"	10	3'-5"	Abut. No. 2.
S5	3/4"	10	1'-3"	"
S6	3/4"	6	2'-3"	Pier
S7	3/4"	6	2'-9"	"
D1	3/4"	18	2'-0"	"

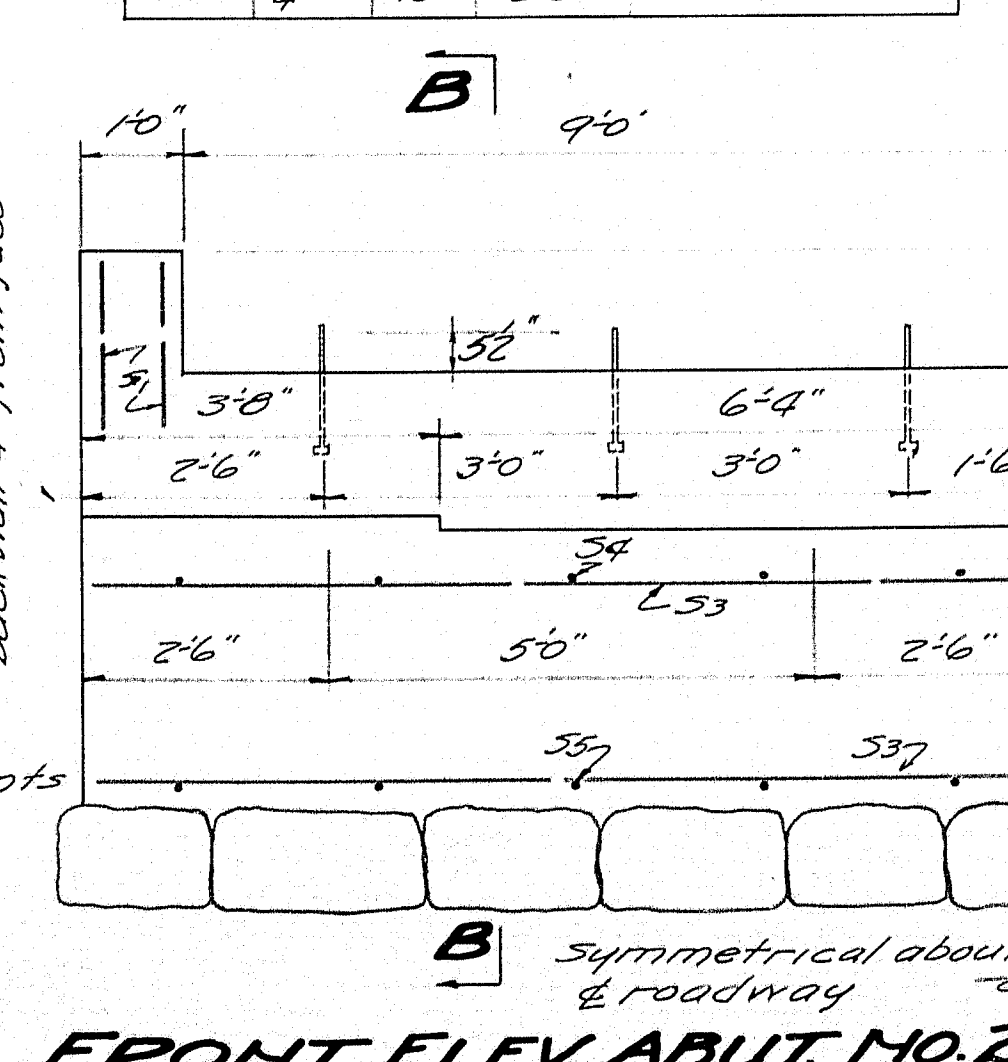
All reinforcing steel to be plain round bars structural grade.



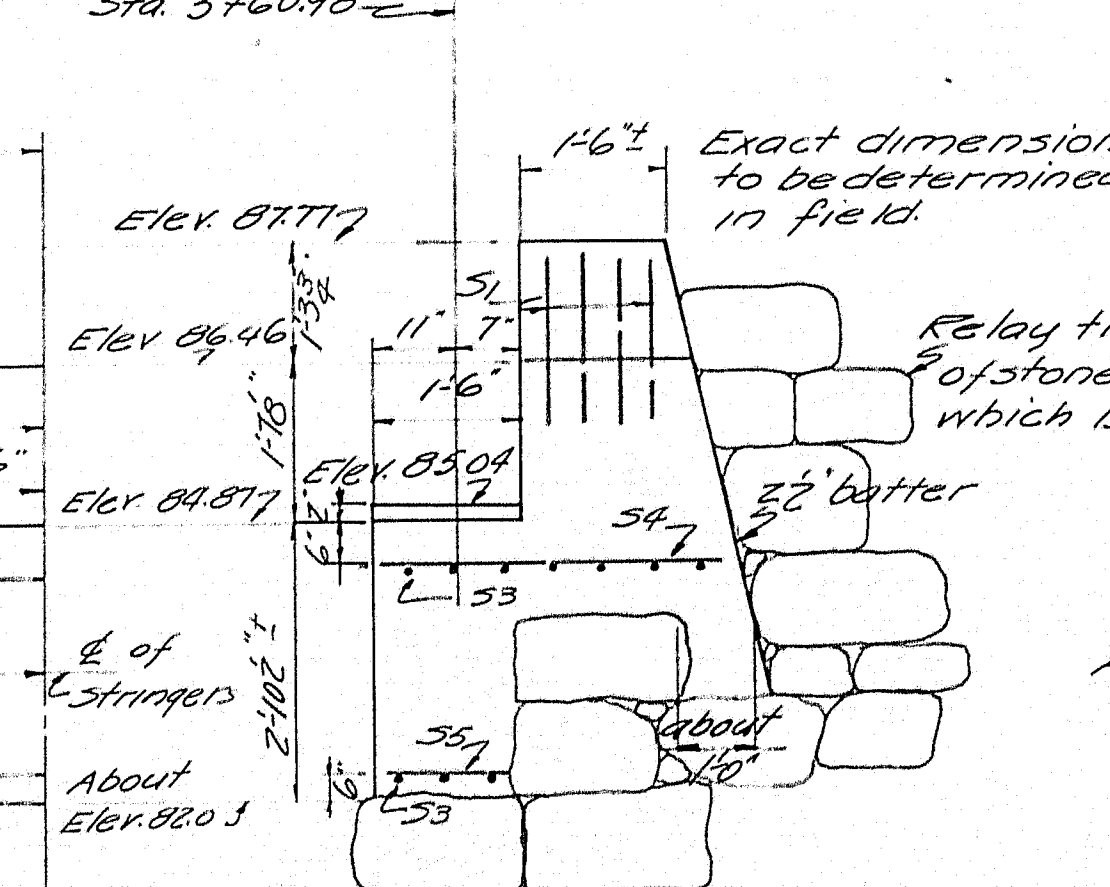
FRONT ELEV. ABUT. NO. 1.



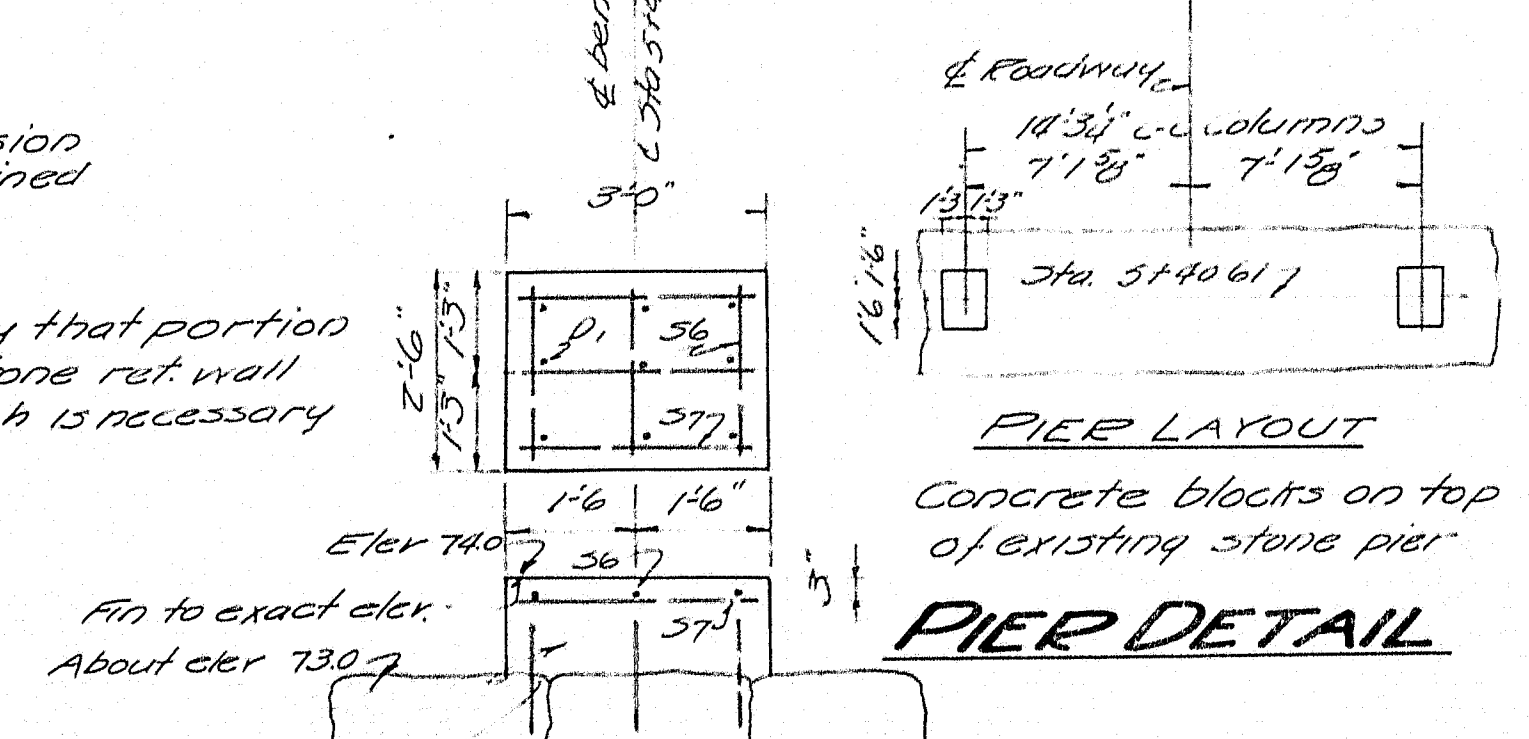
SECTION A-A



FRONT ELEV. ABUT. NO. 2.



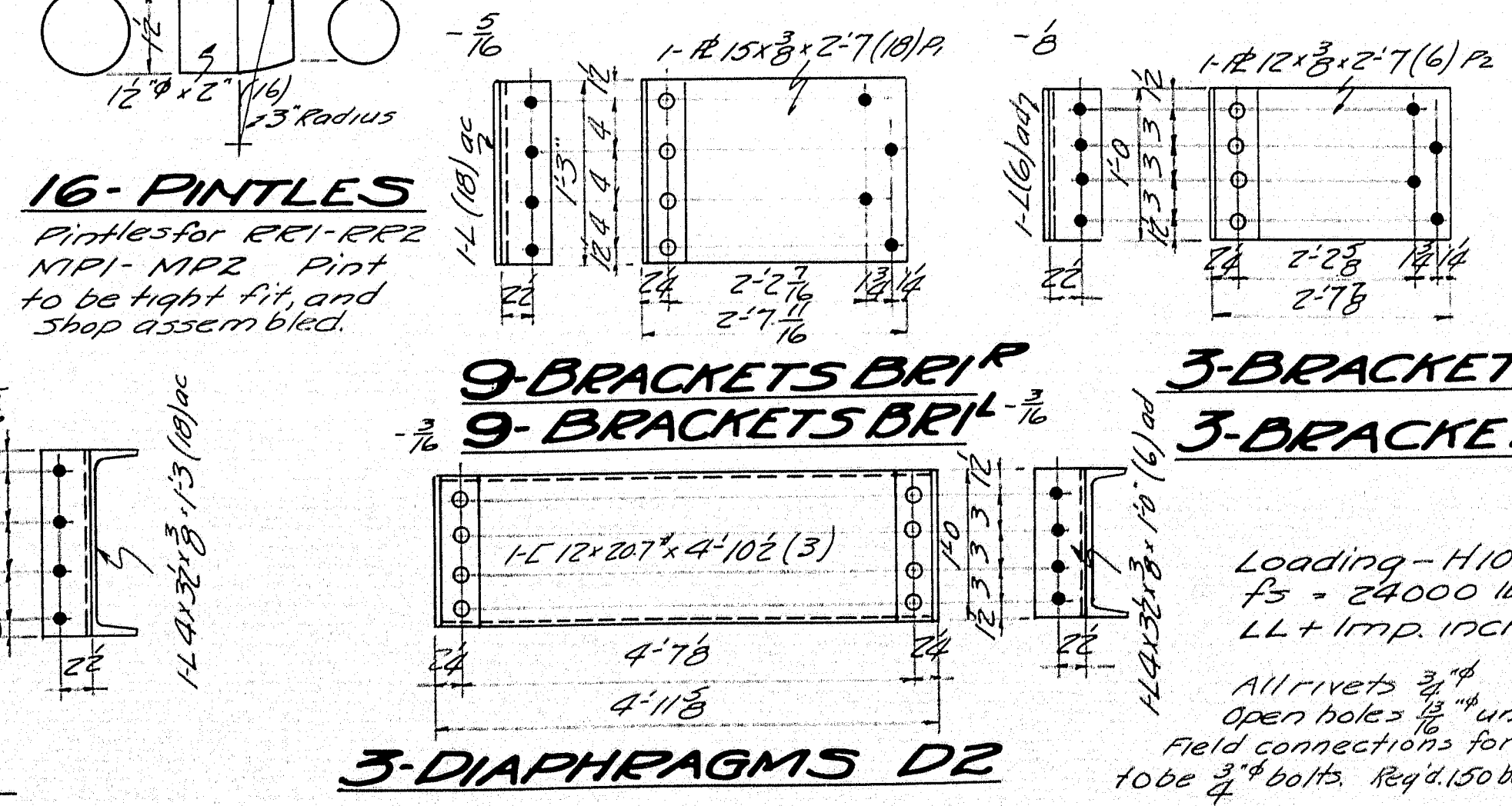
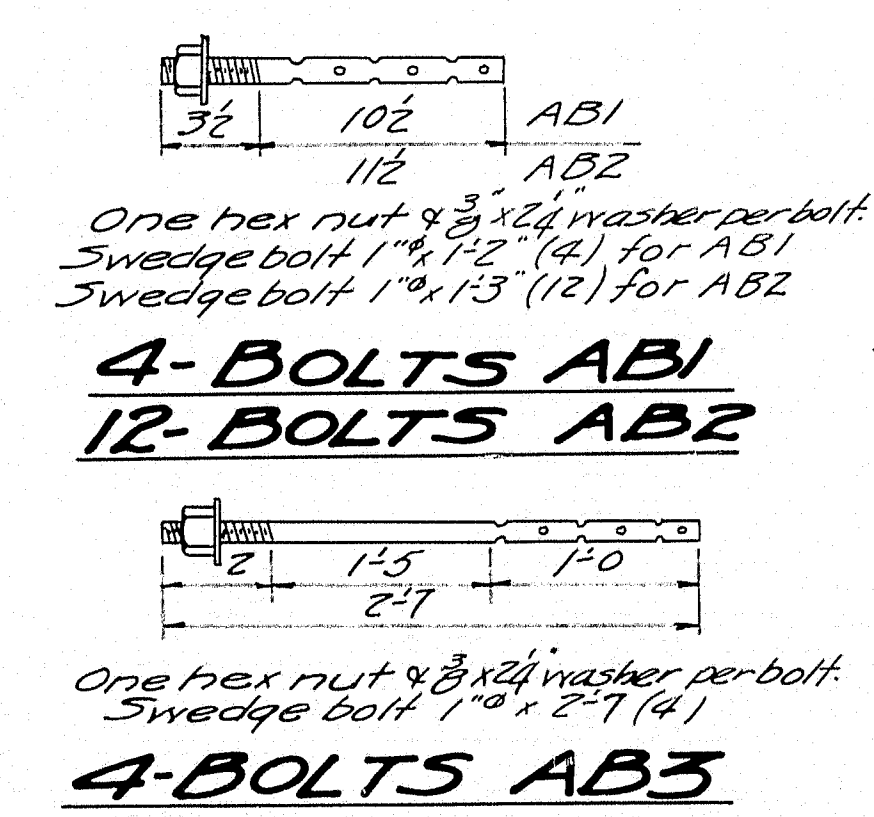
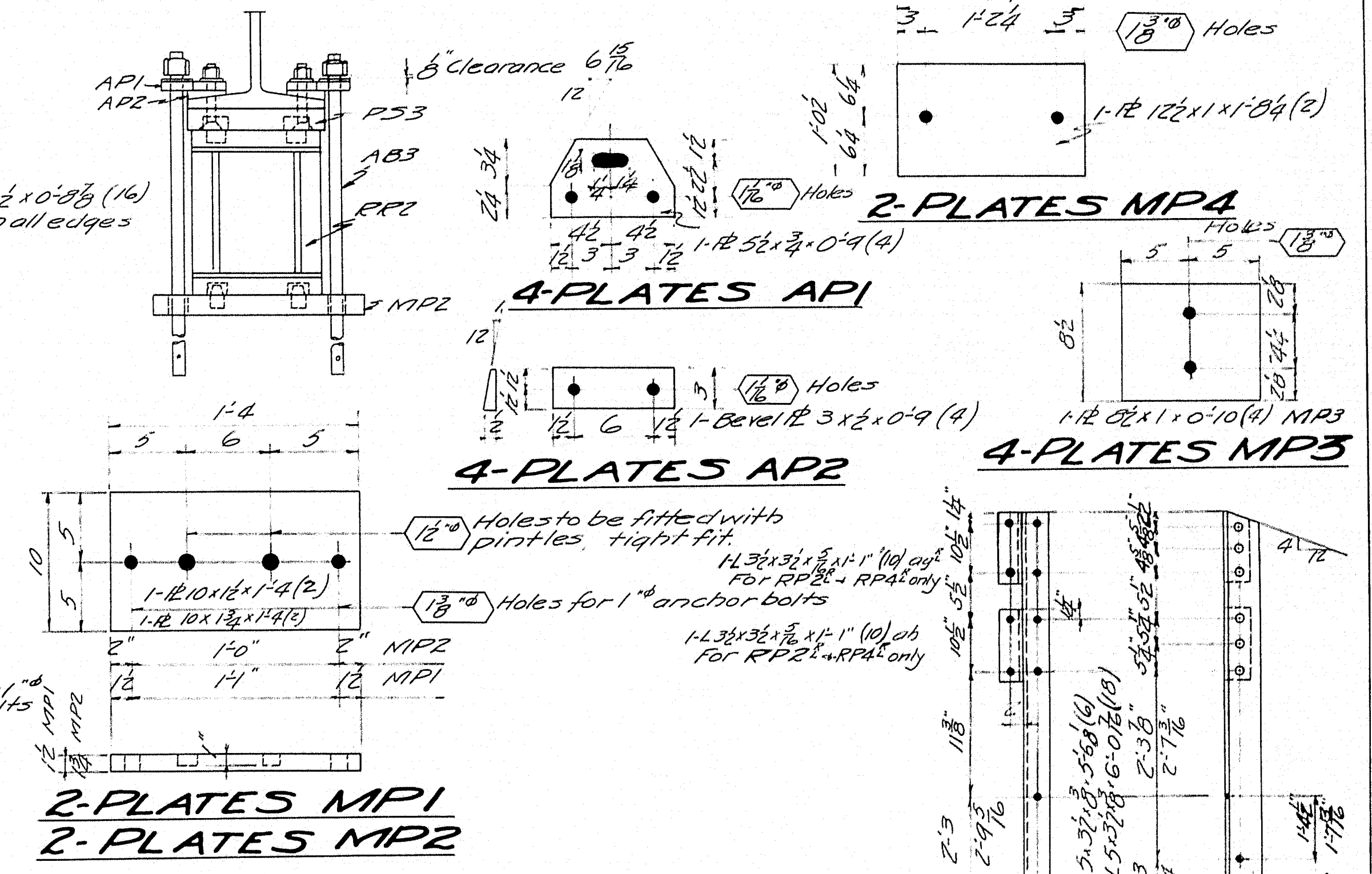
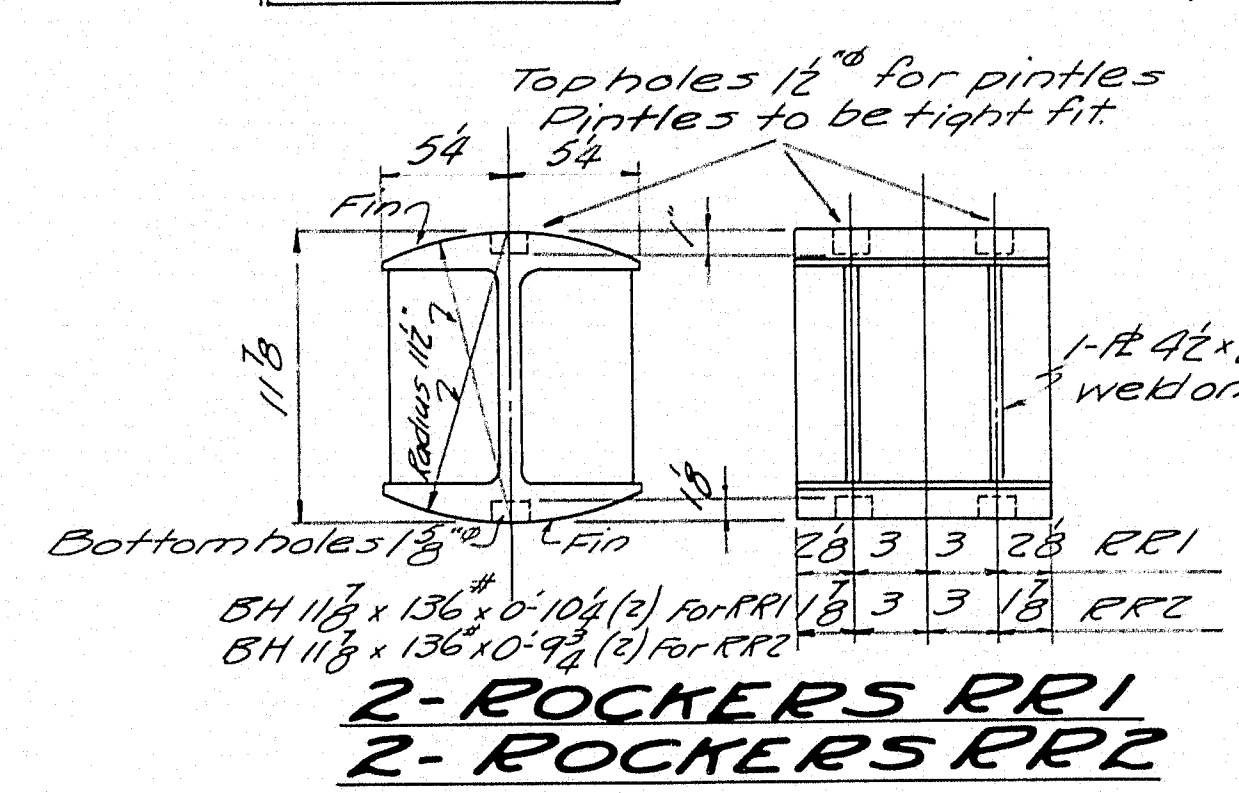
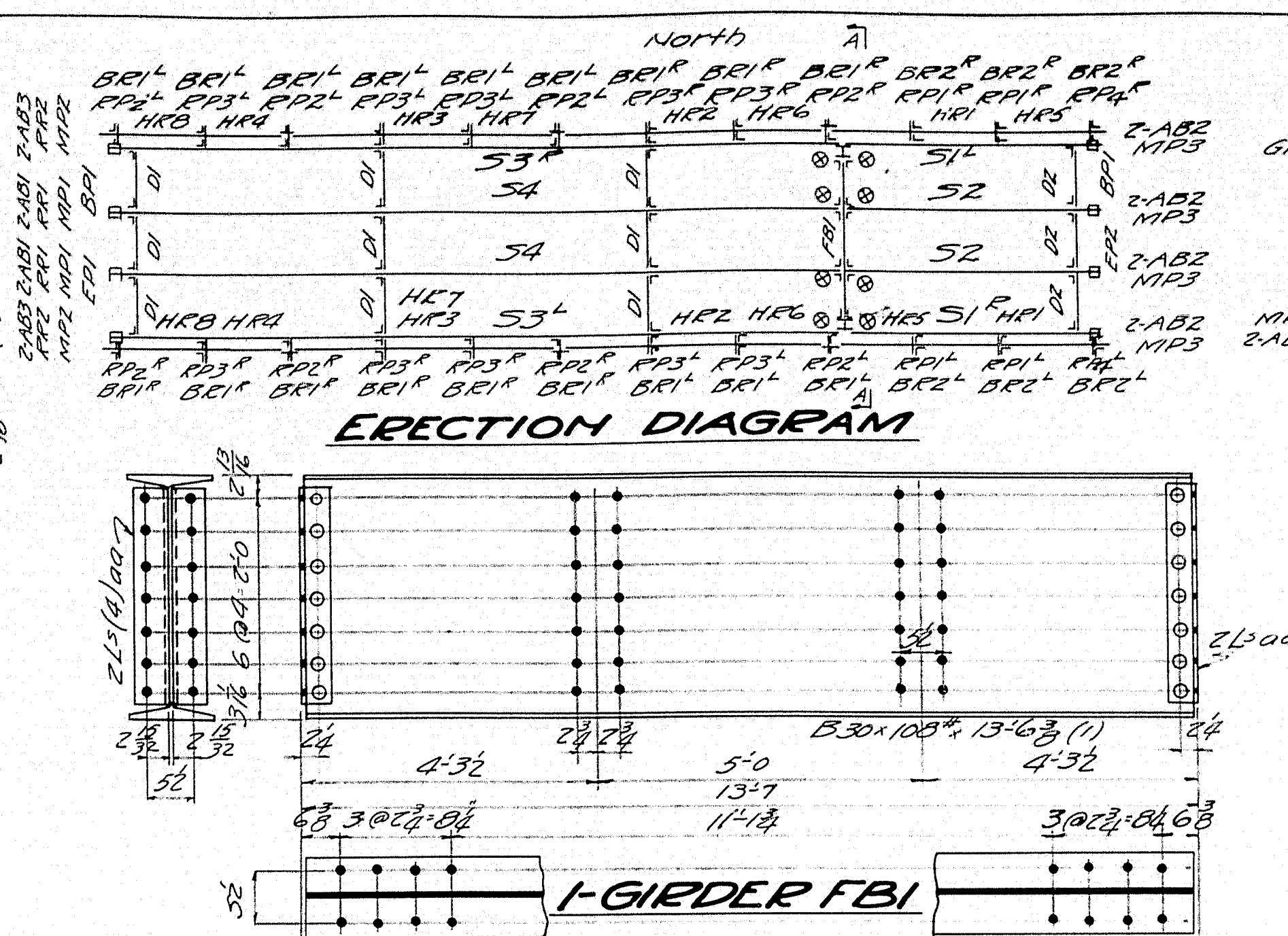
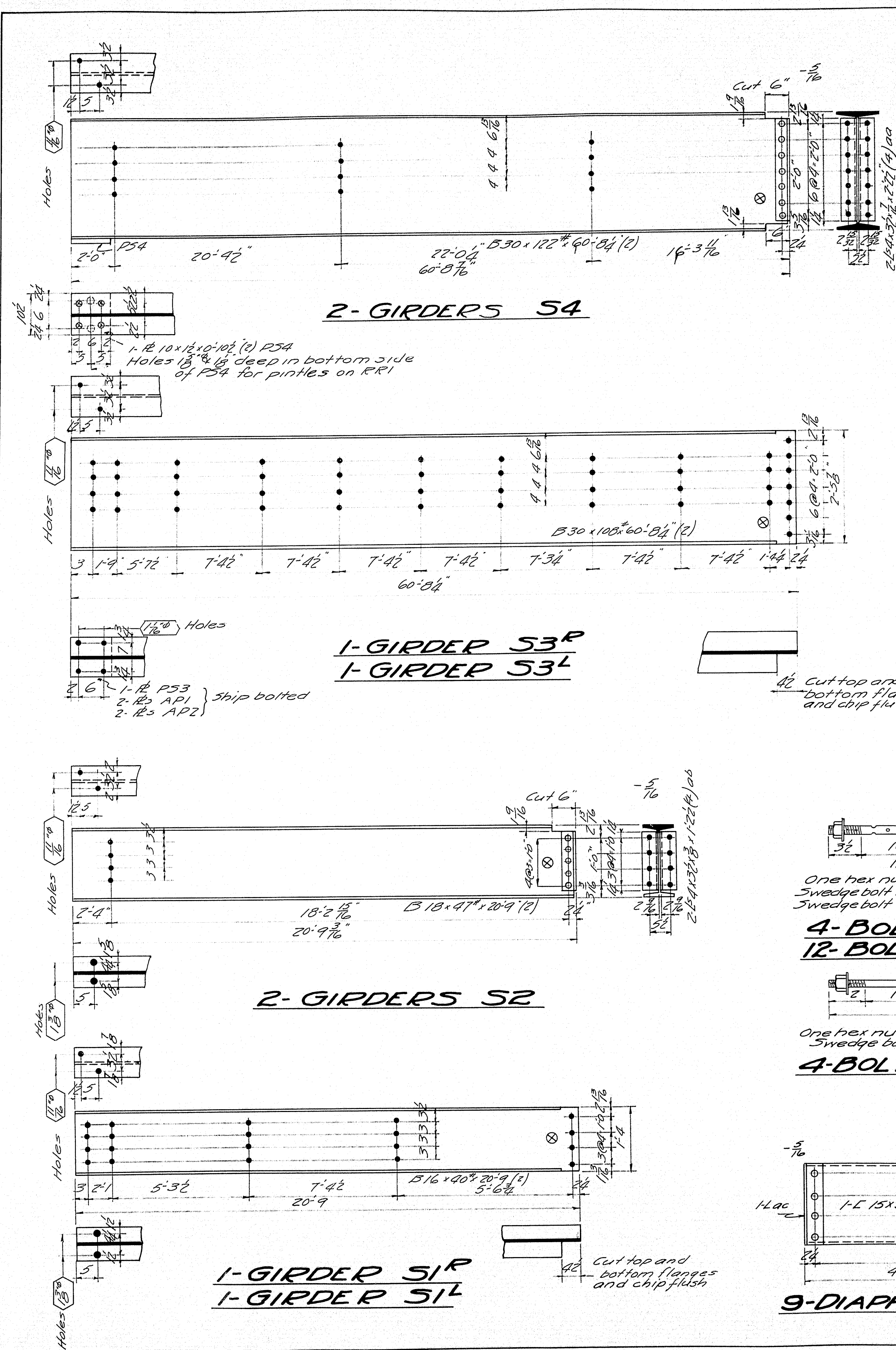
SECTION B-B



PIER DETAIL

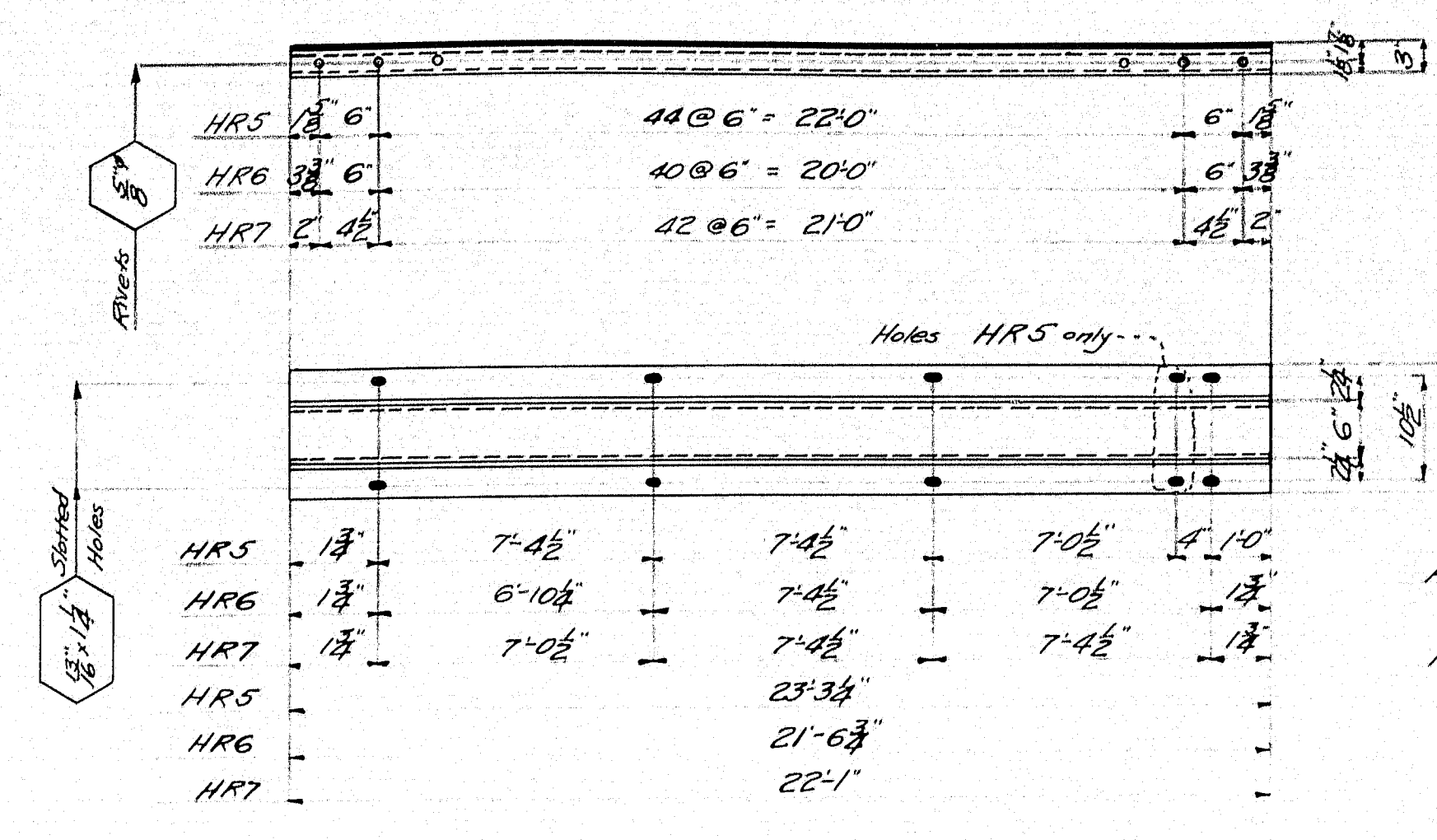
MAINE HIGHWAY COMMISSION
BRIDGE DIVISION
PUDDLE DOCK BRIDGE
OVER
FIFTEEN MILE STREAM
in the town of
ALBION-KENNEBEC CO.
SUBSTRUCTURE DETAILS
Sheet 3 of 5 August 1933

Town 06-01
Bridge 3101

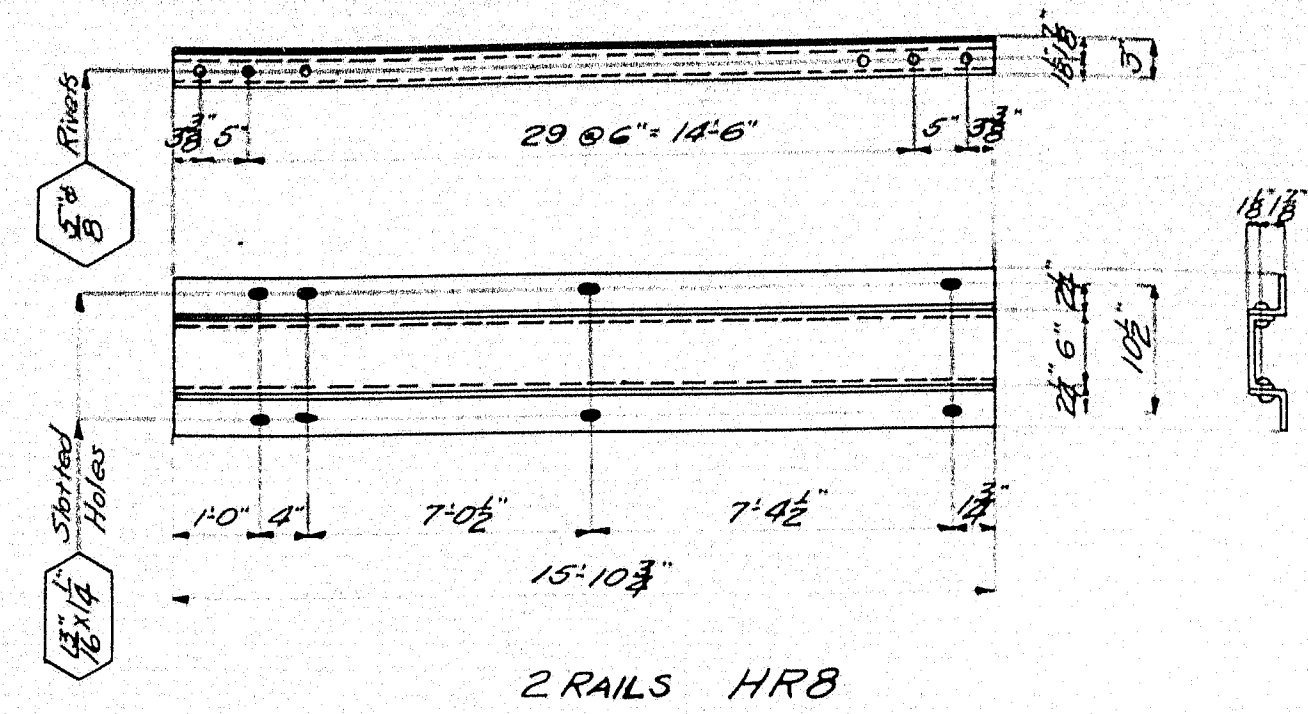



 Loading - H10
 $f_s = 24000 \text{ lb. per sq inch}$
 LL + Imp. increased 100%
 All rivets $\frac{3}{4}'' \phi$
 Open holes $\frac{1}{2}'' \phi$ unless noted.
 Field connections for rails to posts
 to be $\frac{3}{4}'' \phi$ bolts. Req'd 150 bolts joints - amp 16 1/2'

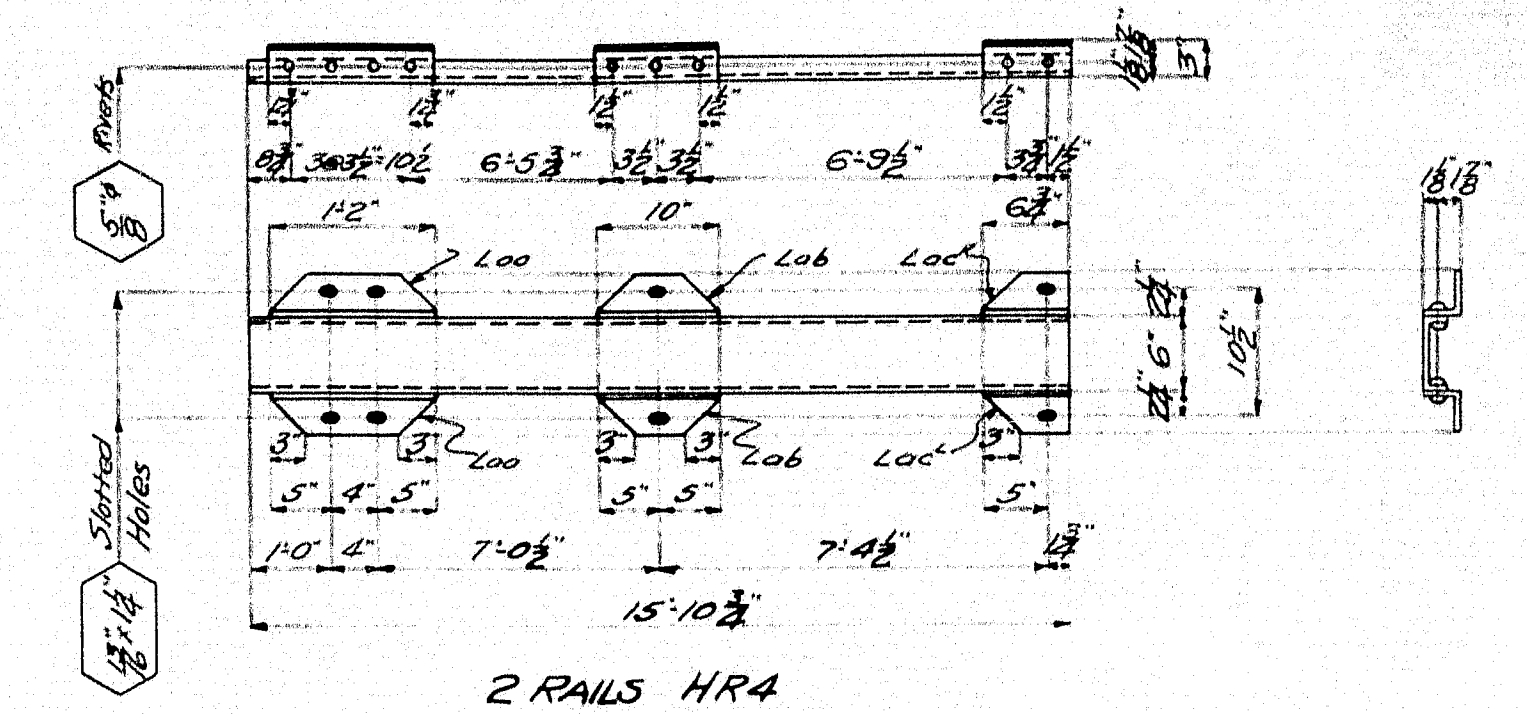
FED. ROAD DIST. NO.	STATE	FED. AID FISCAL YEAR	SHEET NO.	TOTAL SHEETS
9	MAINE	1933	3	5



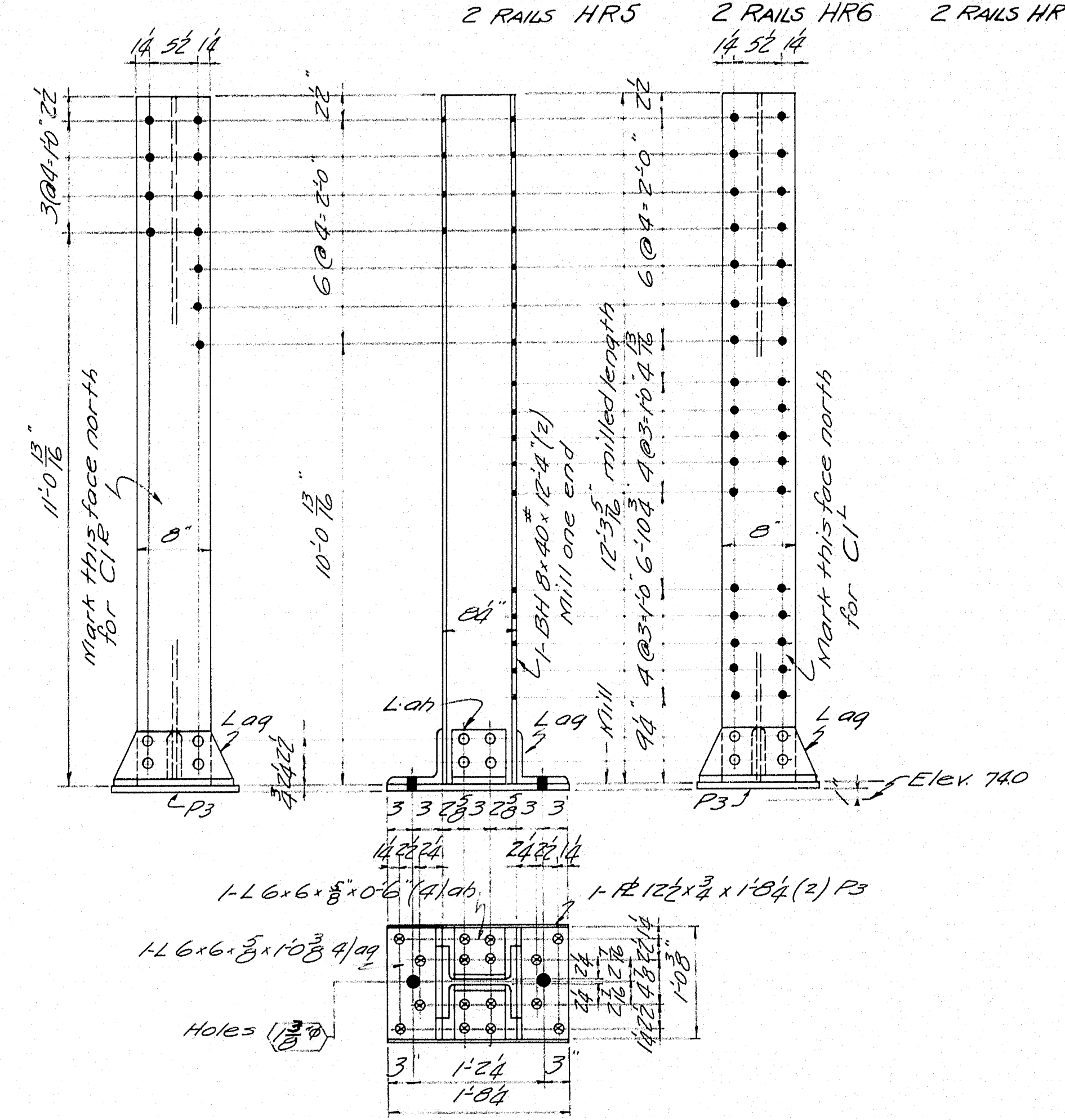
- HRS { 20 3/4 x 3 x 5/8 x 23' 3/4 (4)
 1 L 6 x 8 1/2 x 23' 3/4 (2)
 HR6 { 20 3/4 x 3 x 5/8 x 21' 6 3/4 (4)
 1 L 6 x 8 1/2 x 21' 6 3/4 (2)
 HR7 { 20 3/4 x 3 x 5/8 x 22' 1" (4)
 1 L 6 x 8 1/2 x 22' 1" (2)



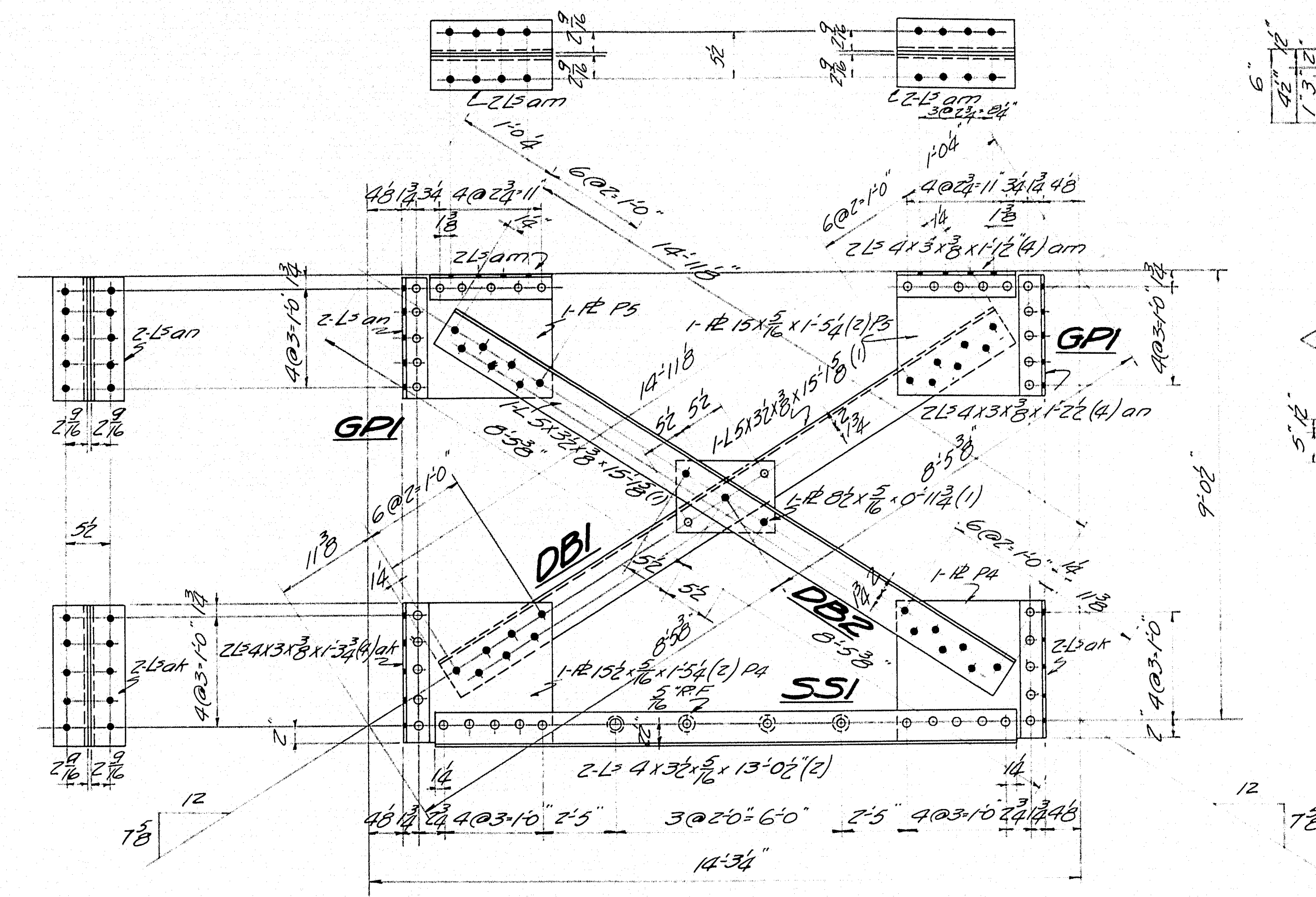
- 2 RAILS HR8
 20 3/4 x 3 x 5/8 x 15' 10 3/4 (4)
 1 L 6 x 8 1/2 x 15' 10 3/4 (2)



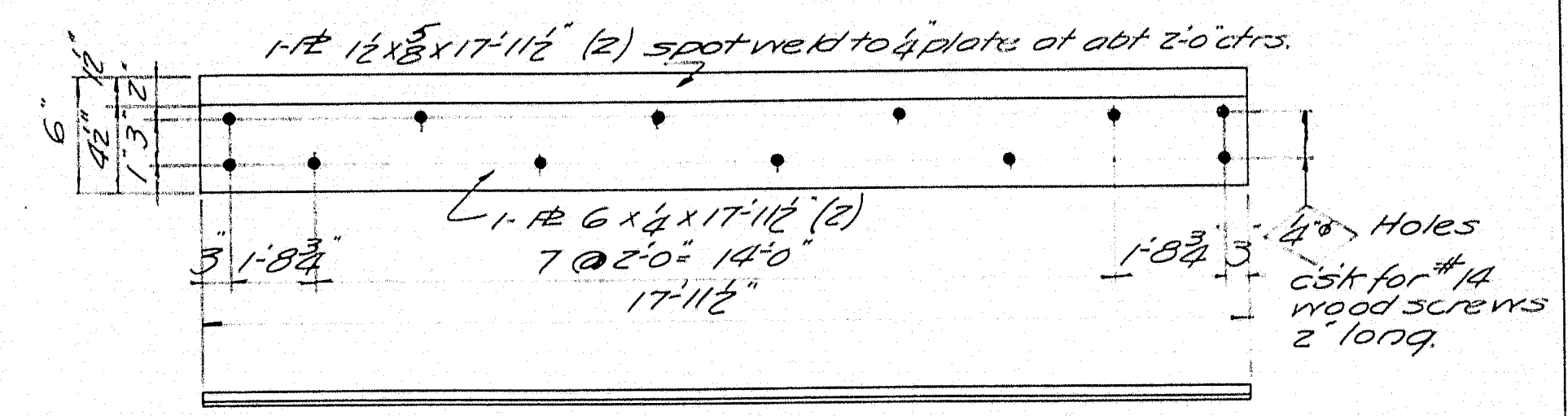
- 2 RAILS HR4
 20 3/4 x 3 x 5/8 x 12' 4" (4)
 20 do x 0' 10" (4) ob
 20 do x 0' 6" (4) oc
 1 L 6 x 8 1/2 x 15' 10 3/4 (2)



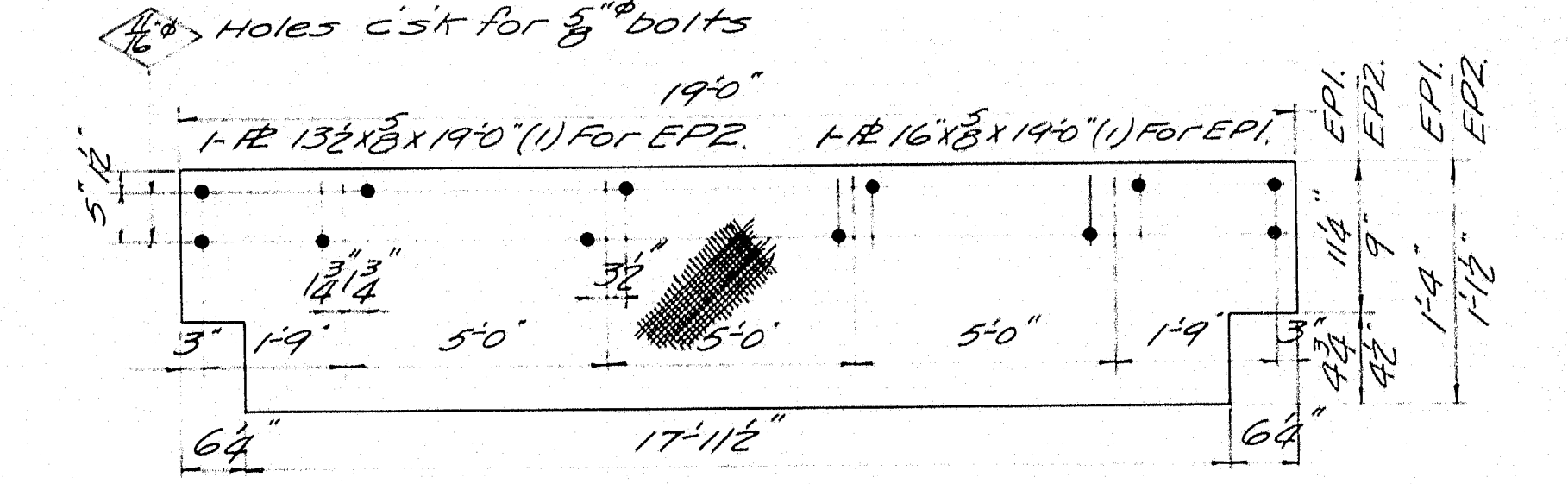
1-COLUMN CIP as shown
 1-COLUMN CIL opp hand



1-STRUT SSI
 1-DIAGONAL DB1
 1-DIAGONAL DB2
 2-PLATES GPI

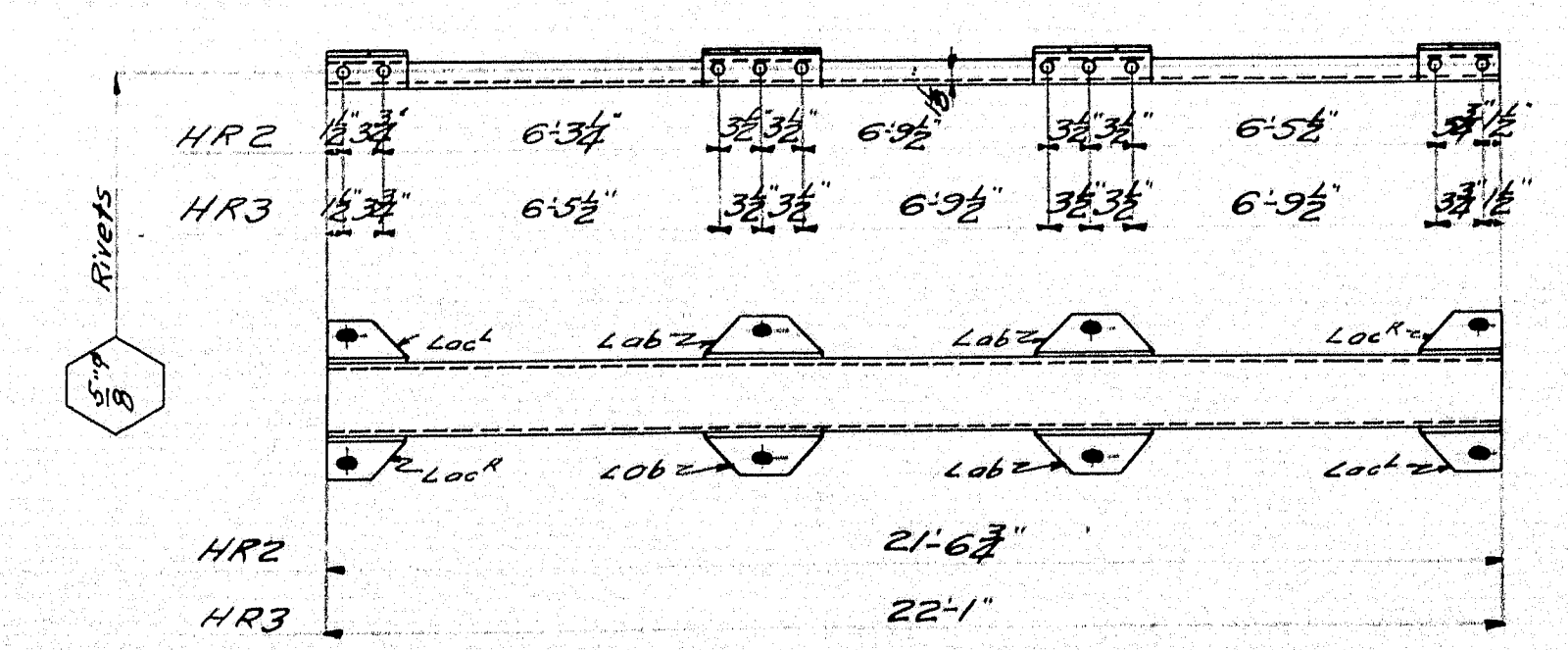


2 PLATES BPI



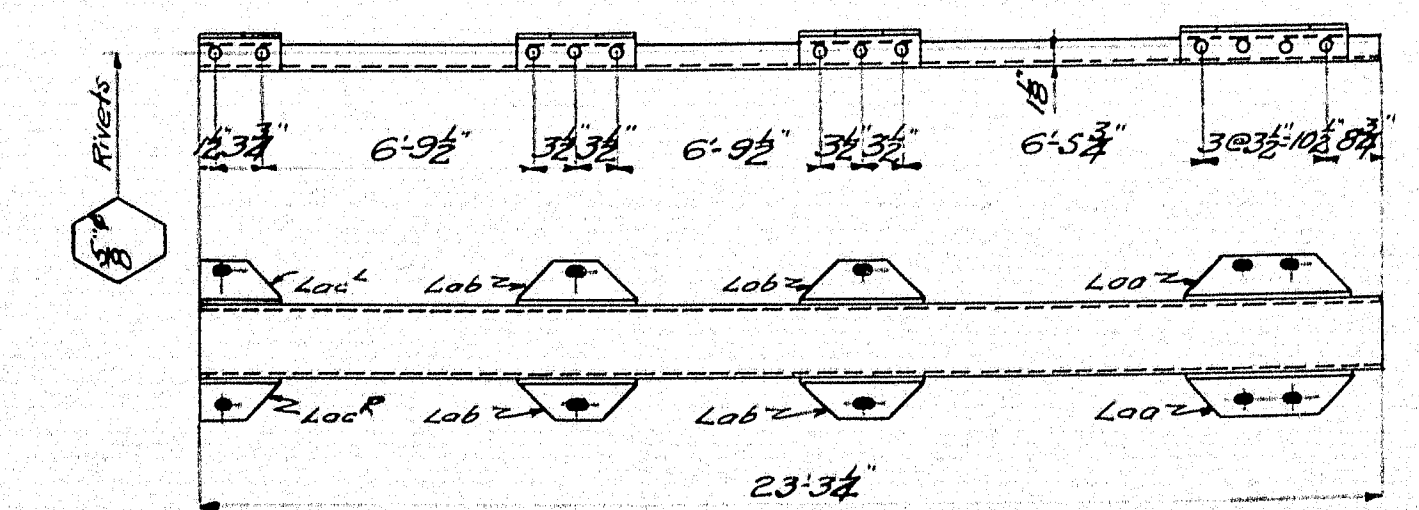
1-PLATE EPI
 1-PLATE EP2

EP1-2 to be an approved non stri'd type of plate.



2 RAILS HR2 2 RAILS HR3

- HR2 { 40 ob (2)
 40 oc (2)
 1 L 6 x 8 1/2 x 21' 6 3/4 (2)
 HR3 { 40 ob (2)
 40 oc (2)
 1 L 6 x 8 1/2 x 22' 1" (2)



2 RAILS HRI

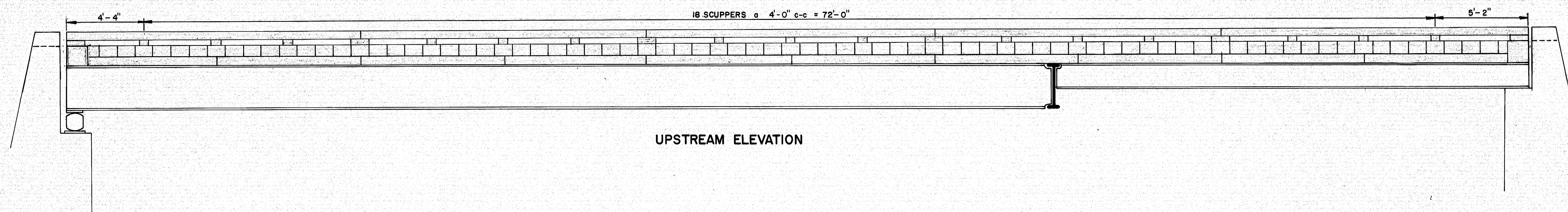
- HRI { 20 ob (4)
 40 ob (2)
 20 oc (4)
 1 L 6 x 8 1/2 x 23' 3/4 (2)

Rivets 3/4" unless noted.
 Holes 1/2" unless noted.

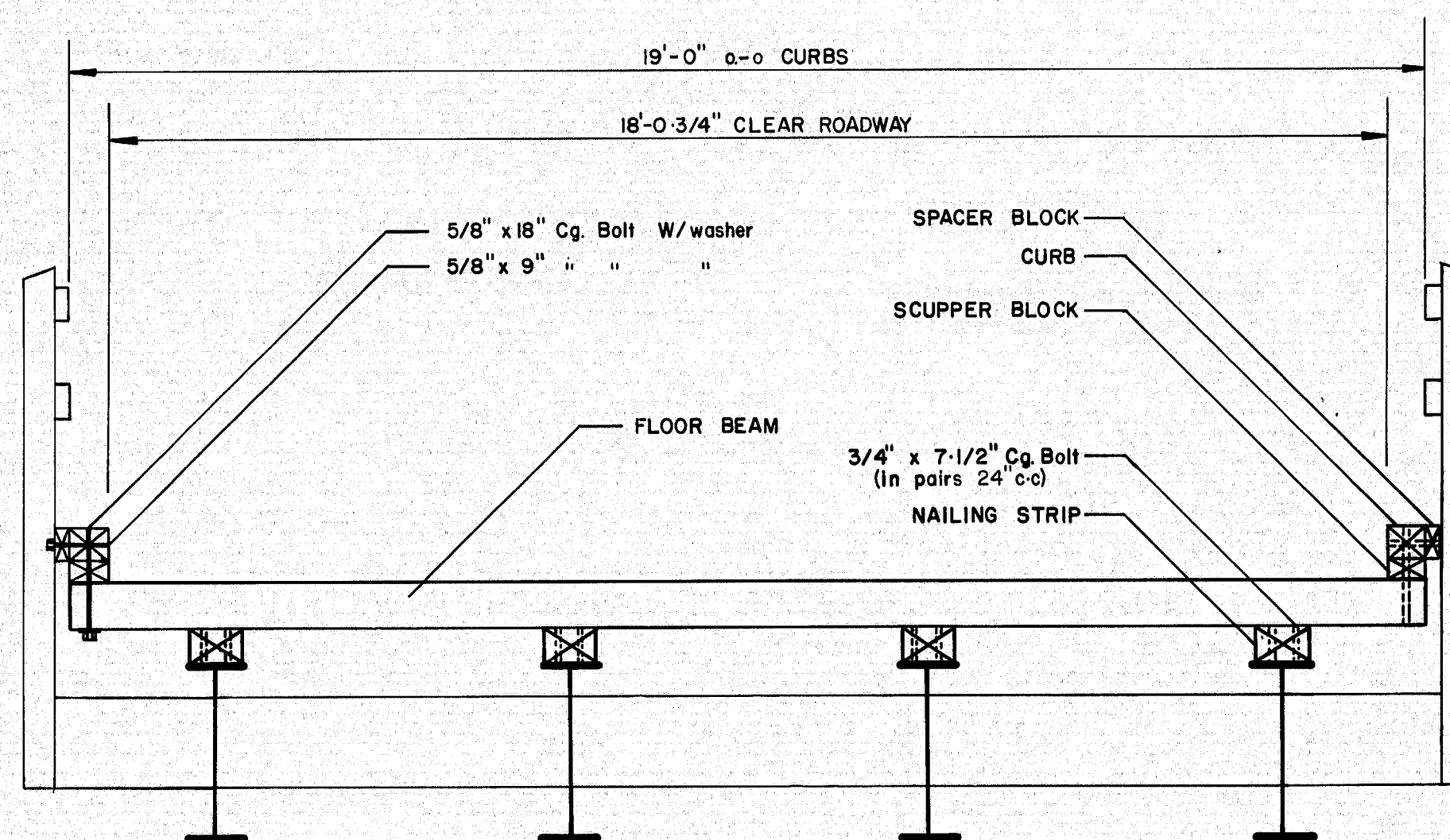
MAINE HIGHWAY COMMISSION
 BRIDGE DIVISION
PUDDLE DOCK BRIDGE
 over
FIFTEEN MILE STREAM
 in the town of
ALBION-KENNEBEC CO.
 DETAIL COLUMNS & BRACING
 Sheet 3 of 5 Augusta Oct. 1933

Town 06-01 Bridge 3107

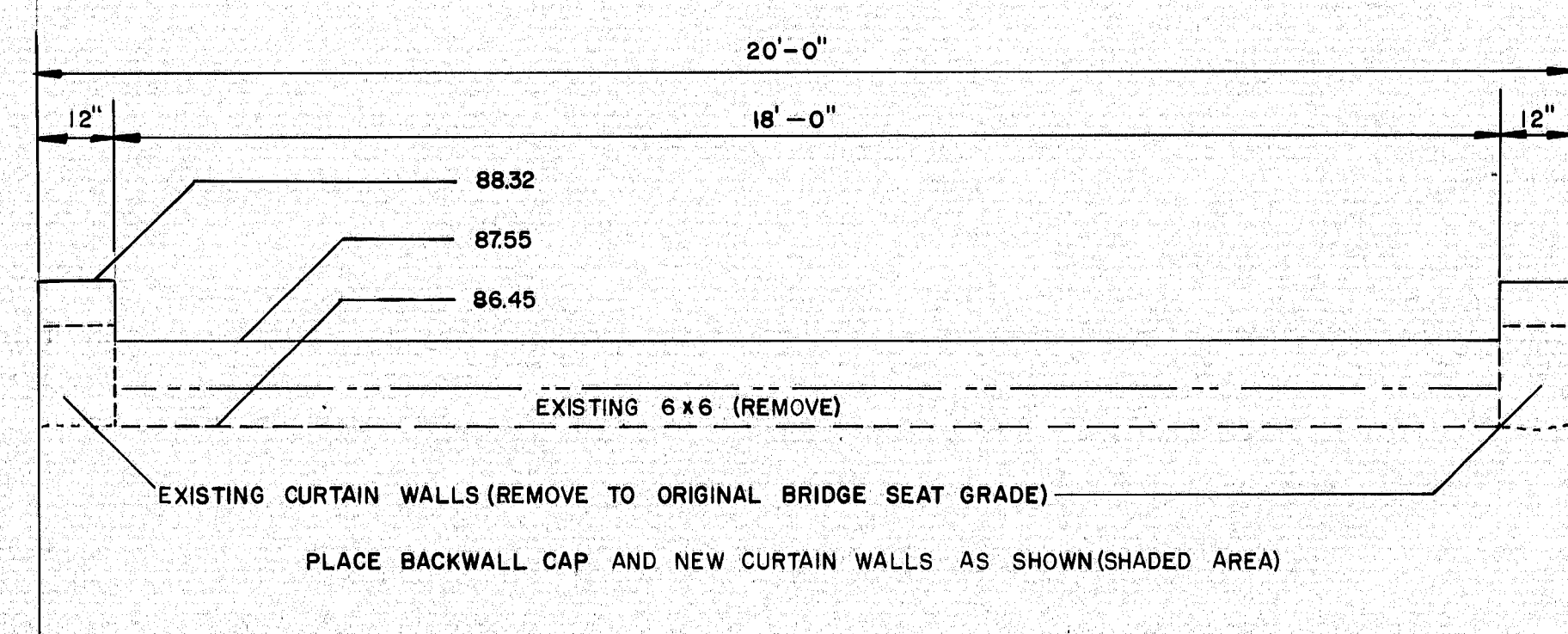
F.H.W.A. REG. NO.	STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
1	MAINE	3107	1	1



UPSTREAM ELEVATION



TRANSVERSE SECTION



BACKWALL ALTERATIONS

LUMBER SCHEDULE						
No.	Pcs.	Dress	Req'd Dim.	Length	Location	Board Feet
100		S1S1E	7 3/4" x 11 1/2"	19'-0"	FLOOR	13,680
50		S4S	5 1/2" x 9 1/2"	8'-0"	NAILING STRIP	2,000
8		S4S	5 5/8" x 5 5/8"	16'-0"	CURBS INTERIOR	384
4		"	"	17'-2"	CURBS EAST END	205
2		"	"	16'-4"	CURBS WEST END	97
12		"	3 5/8" x 5 5/8"	2'-0"	SCUPPER BLOCKS **	48
30		"	"	1'-0"	SCUPPER BLOCKS	60
24		"	3 3/8" x 5 5/8"	0'-6"	CURB TO RAIL SPACERS	24
4		"	5 1/2" x 9 1/2"	10'-0"	END NAILING STRIP	380

** USE ON ENDS OF CURB AND AT SPLICES

TOTAL = 16,878 Bd. Ft.

HARDWARE SCHEDULE			
Amt.	Req'd	Description	Location
300 LBS.		BRIDGE SPIKES (12)	FLOOR TO STRINGERS
340		3/4" x 7-1/2" Cg. Bolts	NAILER TO STRINGERS
100		5/8" x 19" " "	CURBS TO FLOOR
24		5/8" x 10 1/2" " "	CURBS TO POSTS
100		5/8" FLAT WASH.	5/8" x 19" BOLT
110		5/8" LOCK WASH	ALL 5/8" BOLTS
400		3/4" " "	" 3/4" "

DATE	9/14
BY	100
DESIGN - DETAILED	2/23
CHECKED	3
REVISIONS	
FIELD CHANGES	

PLANS

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
PUDDLE DOCK BRIDGE
ALBION
NO. 3107
DECK REPLACEMENT

SHEET / OF / AUGUSTA, MAINE

157-167