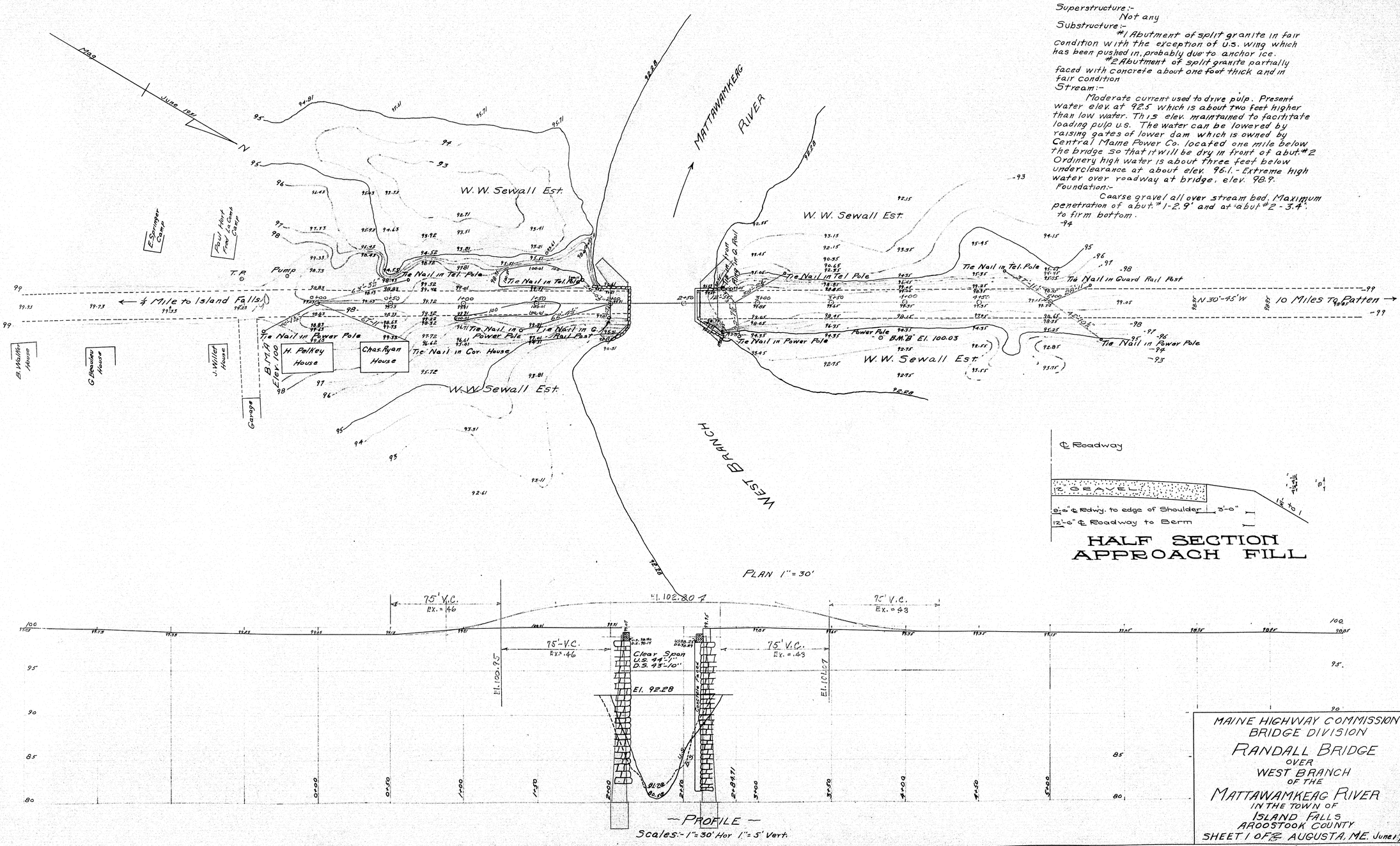


NOTES

Superstructure:-
Not any

Substructure:-
#1 Abutment of split granite in fair condition with the exception of U.S. wing which has been pushed in, probably due to anchor ice.
#2 Abutment of split granite partially faced with concrete about one foot thick and in fair condition

Stream:-
Moderate current used to drive pulp. Present water elev. at 92.5 which is about two feet higher than low water. This elev. maintained to facilitate loading pulp u.s. The water can be lowered by raising gates of lower dam which is owned by Central Maine Power Co. located one mile below the bridge so that it will be dry in front of abut. #2 Ordinery high water is about three feet below underclearance at about elev. 96.1. - Extreme high water over roadway at bridge, elev. 98.9.

Foundation:-
Coarse gravel all over stream bed. Maximum penetration of abut. #1 - 2.9' and at abut. #2 - 3.4' to firm bottom.

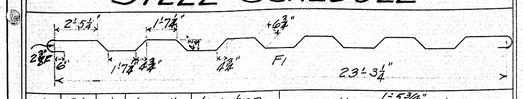
MAINE HIGHWAY COMMISSION
BRIDGE DIVISION

RANDALL BRIDGE
OVER
WEST BRANCH
OF THE
MATTAWAMKEAG RIVER
IN THE TOWN OF
ISLAND FALLS
AROOSTOOK COUNTY

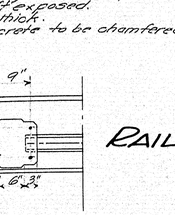
SHEET 1 OF 2 AUGUSTA, ME. June 1, 31

13- 147

STEEL SCHEDULE



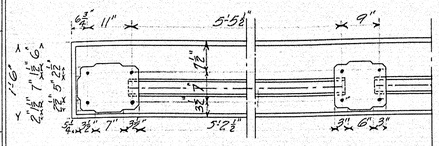
Mark	Size	No	Length	Location
F1	5/16"ϕ	53	27'-2½"	Slab
F2	"	108	23'-9½"	"
F3	1/2"ϕ	38	29'-6"	"
S1	"	116	4'-3"	Curb
C	"	8	29'-11"	"
P	3/4"ϕ	80	4'-0"	Posts
R	5/8"ϕ	72	5'-6"	Rails
T1	3/4"ϕ	58	20'-9½"	Wear. Surf.
T2	"	44	29'-6"	"
K	3/4"ϕ	72	8'-0"	Abut.



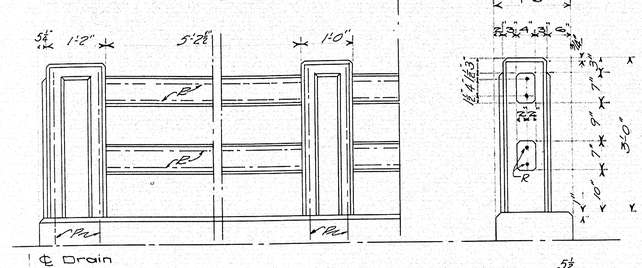
Mark	Size	No	Length	Location
G1	1½"ϕ	15	3'-11	super
G1	8.33	6	57'-6"	"
Bolts	3/4"ϕ	24	1'-3"	Bear. pls
Bolts	"	20	4'-5"	super.

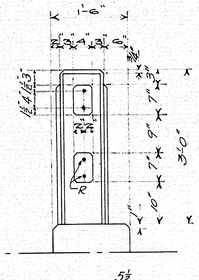
All steel to be plain round bars of structural grade.
All dimensions are to ℄ of bars.

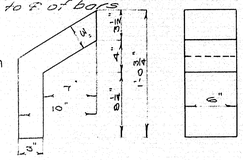
Note: Curb and slab to be cast together. Steel for posts to be set in curbs. Precast rail bars in lengths of 5'-7⅞". Place rail bars in position with ends projecting into post forms 2½" wrap ends 2 6" with five thicknesses of light roofing felt. After post forms are removed cut away all felt left exposed.
Panels on posts to be ⅜" thick.
All exposed edges of concrete to be chamfered ½" unless otherwise noted.



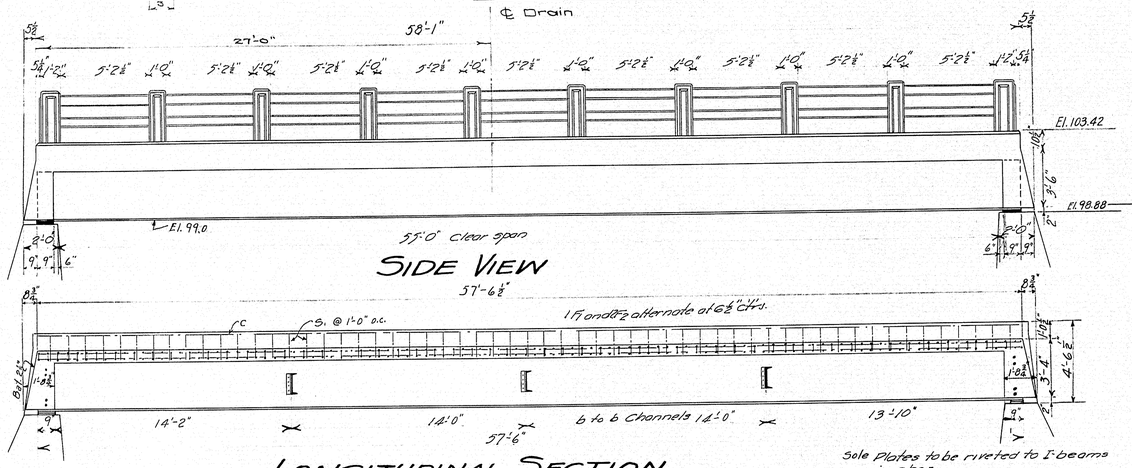
RAIL DETAIL





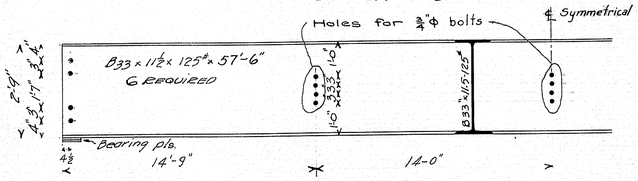


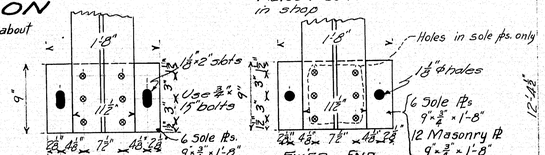
METAL DRAIN FORM
(2 Req'd.)



SIDE VIEW

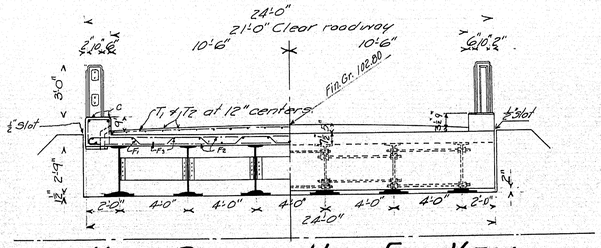
LONGITUDINAL SECTION



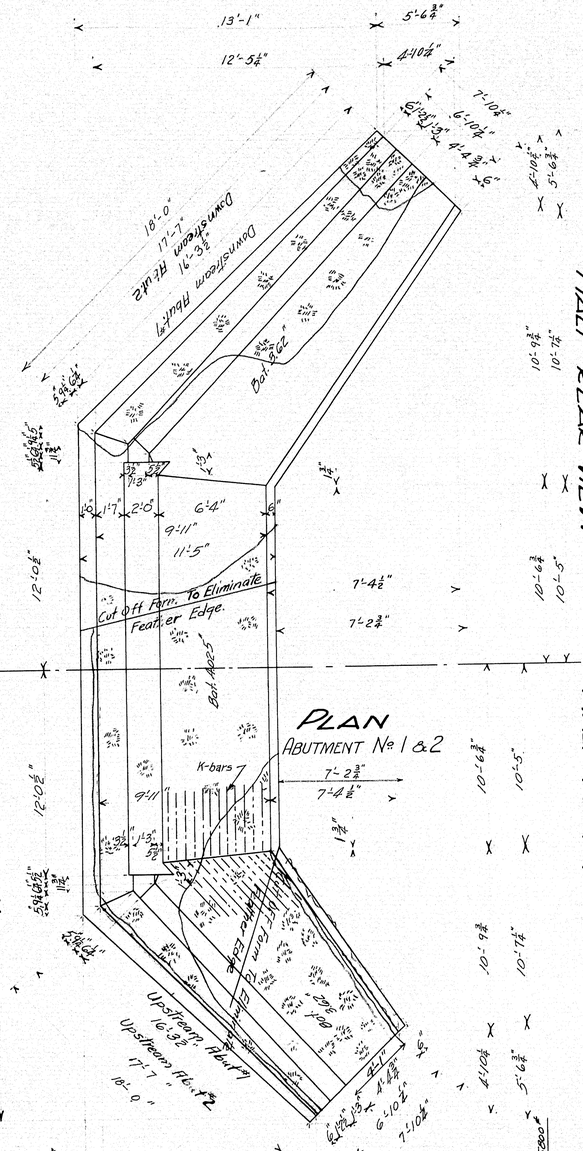


Rods are to be 4'-5" long × ¾"ϕ, threaded 4" on each end & double nutted.

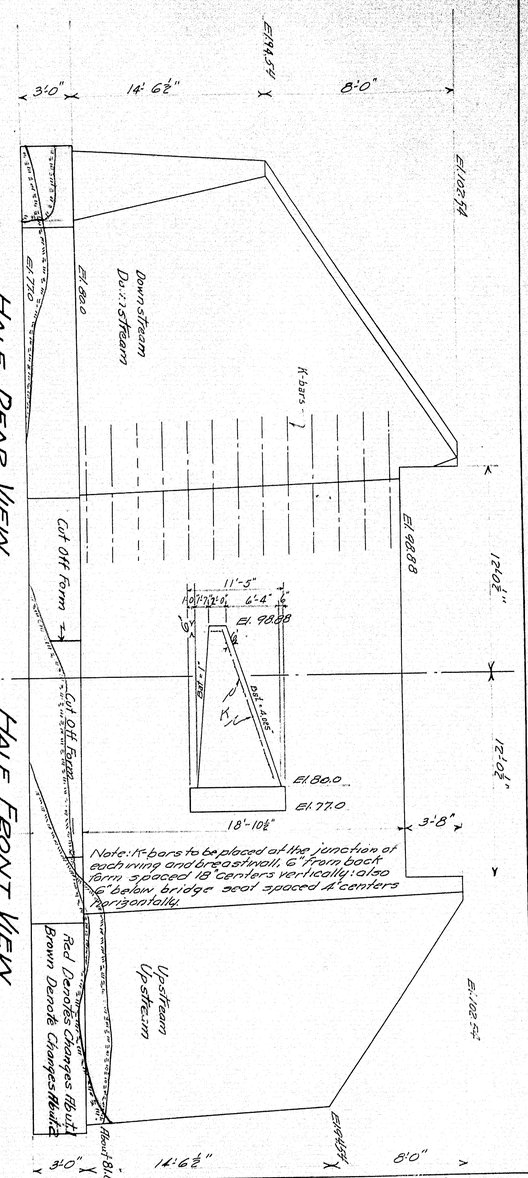
Note: Cover the ½" and 2" openings between superstructure and substructure, on the backside with two layers of heavy roofing felt. Coat concrete and backside of each layer of felt, as applied, with hot tar or asphalt. Felt is to be 10" wide. The area to be covered by the felt is to be recessed ½" by nailing strips to the forms before concrete is placed.
Holes 13/16" unless noted.



HALF SECTION HALF END VIEW

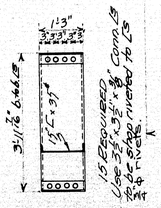


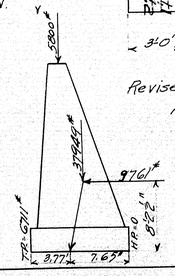
PLAN
ABUTMENT No. 1 & 2



HALF REAR VIEW

HALF FRONT VIEW





ABUT. ANALYSIS

Revised as Built
A.B.P.

Maine Highway Commission
Bridge Division
RANDALL BRIDGE
over
W. Br. MATTAWAMKEAG RIVER
in the town of
ISLAND FALLS
AROOSTOOK Co.
BRIDGE DETAILS
SHEET 2 OF 2
JULY 7, 1931

13-148

L. Lobat Aug 3, '31
Designed by C. Hersey

0 1 2 3 4 5 INCHES