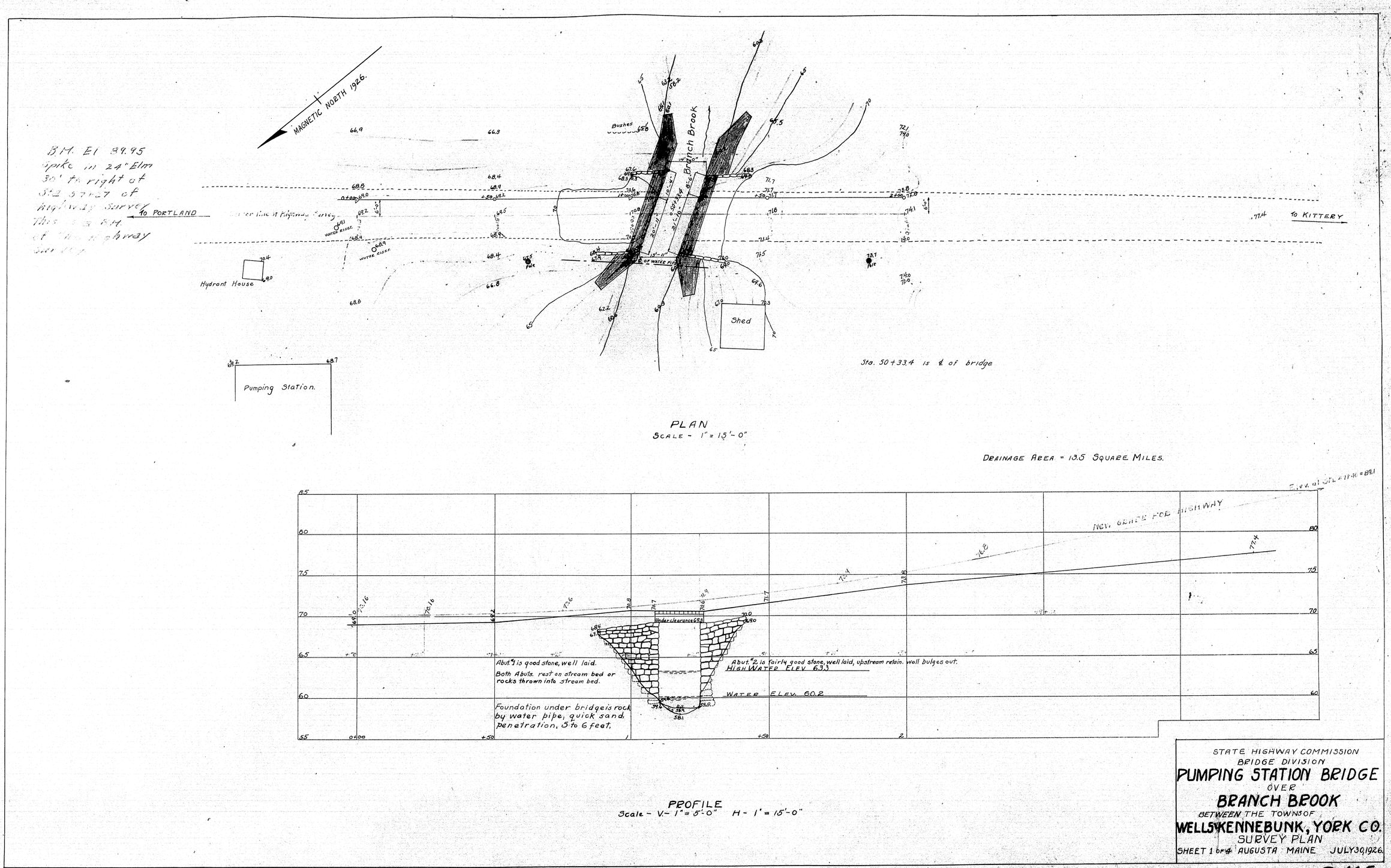
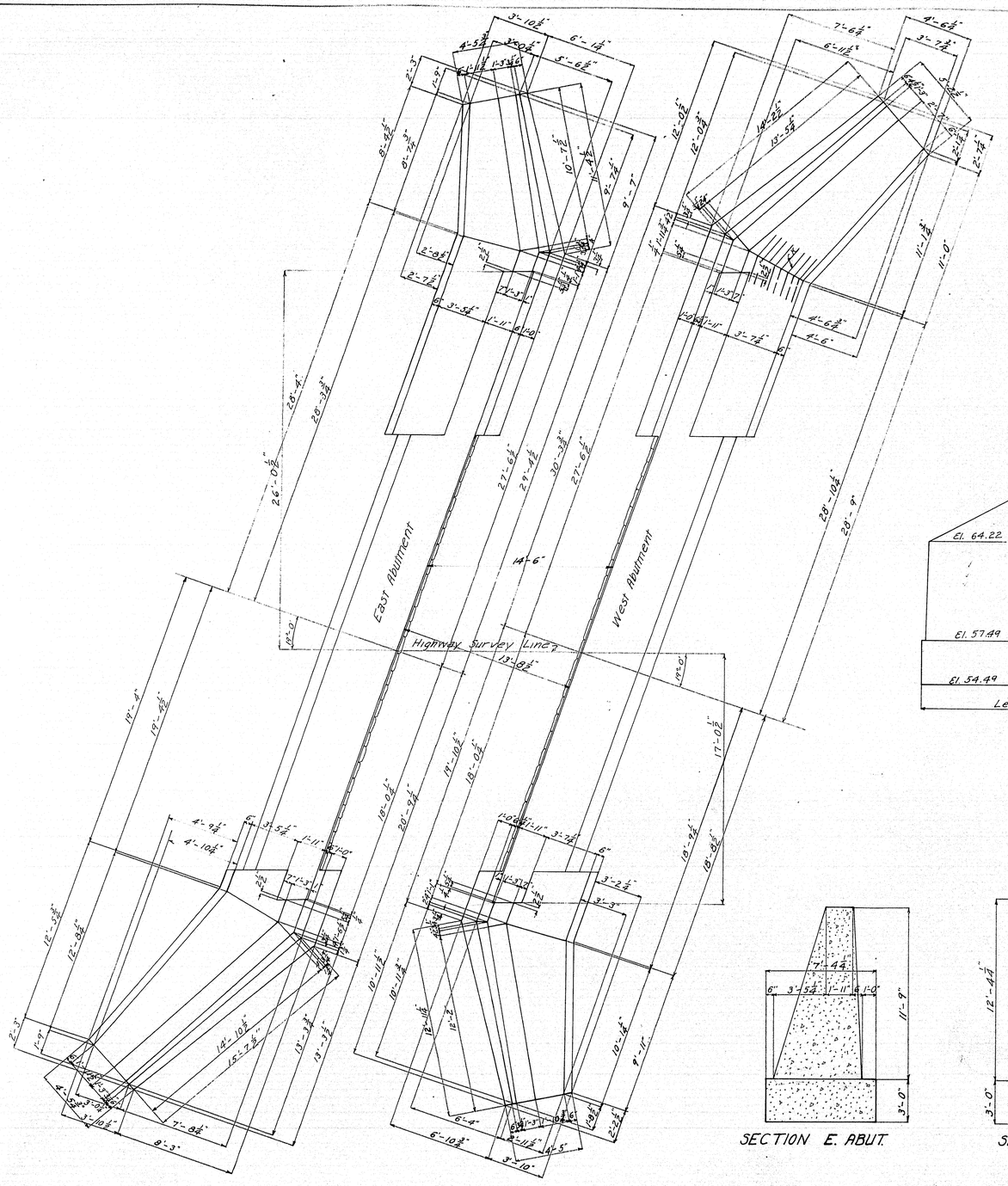


SURVEYED BY H.L.D.
PLOTTED BY H.L.R.
TRACED BY H.L.R.

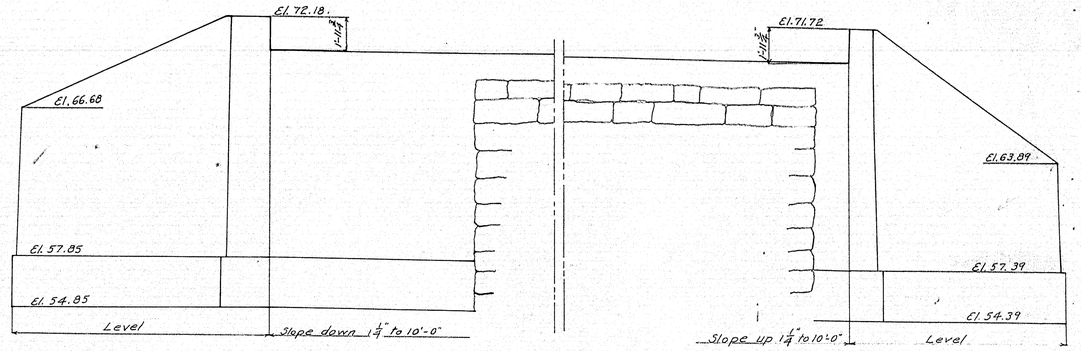
STATE HIGHWAY COMMISSION
BRIDGE DIVISION
PUMPING STATION BRIDGE
OVER
BRANCH BROOK
BETWEEN THE TOWNS OF
WELLS & KENNEBUNK, YORK CO.
SURVEY PLAN
SHEET 1 of 4 AUGUSTA MAINE JULY 30, 1926.

2-165

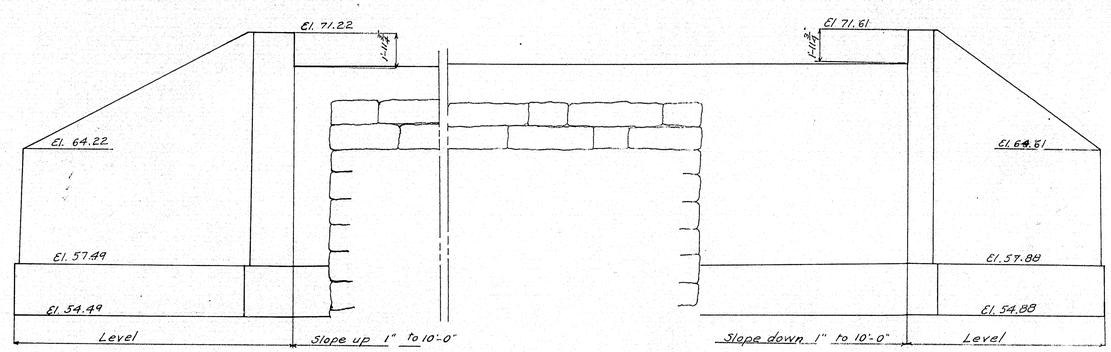
0 1 2 3 4 5 INCHES



PLAN OF ABUTMENTS

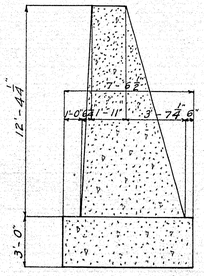


FRONT ELEVATION OF WEST ABUTMENT

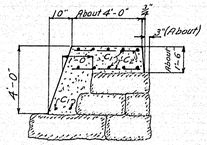


FRONT ELEVATION OF EAST ABUTMENT

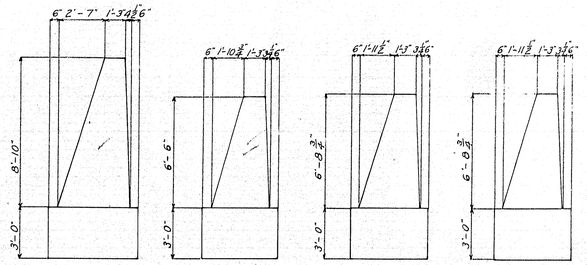
SECTION E. ABUT.



SECTION W. ABUT.



SECTION OF CAPS



END ELEVATION OF WINGS

MAINE HIGHWAY COMMISSION
BRIDGE DIVISION

PUMPING STATION BRIDGE

OVER

BRANCH BROOK

BETWEEN THE TOWNS OF

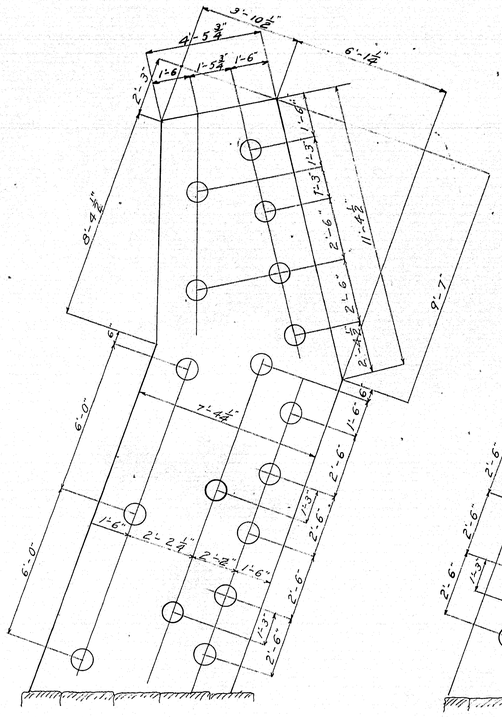
WELLS & KENNEBUNK, YORK CO.

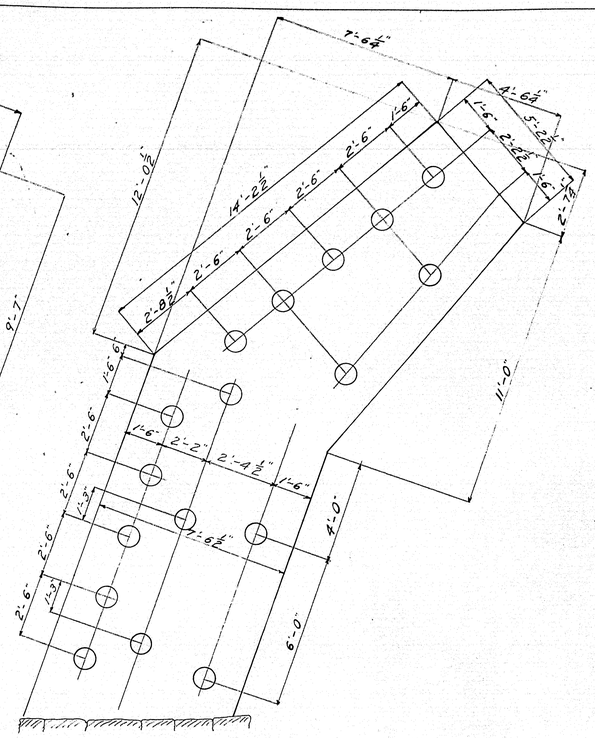
SUBSTRUCTURE

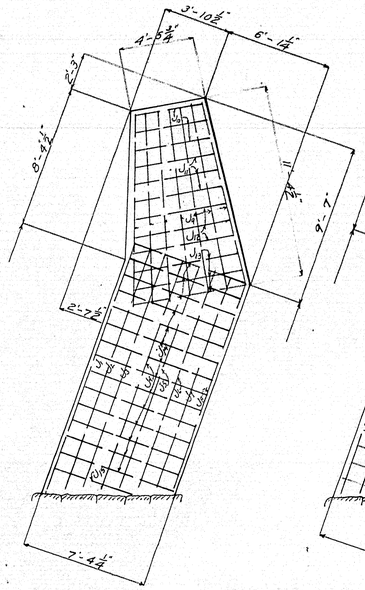
SHEET 2 of 4 AUGUSTA, Me Mar. 4, 1927

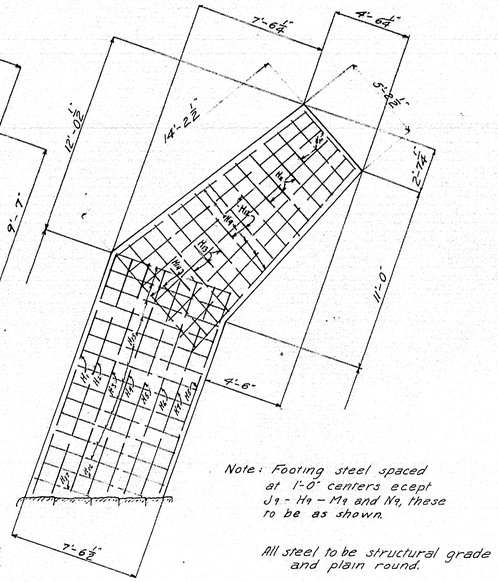
2466

0 1 2 3 4 5 INCHES





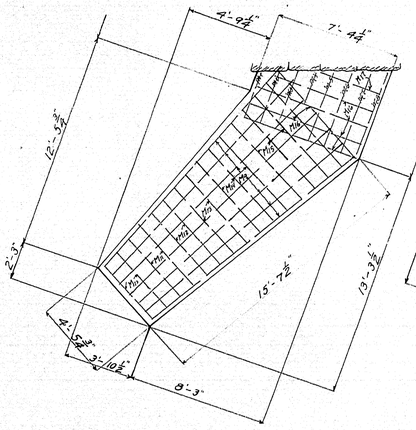


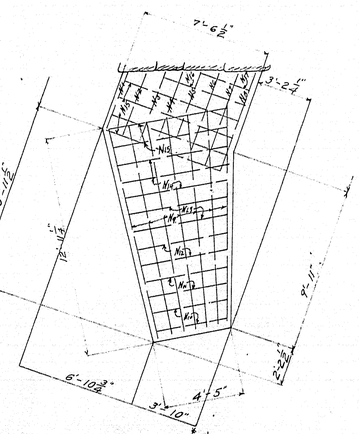


Note: Footing steel spaced at 1'-0" centers except J9 - H9 - M9 and N9, these to be as shown.

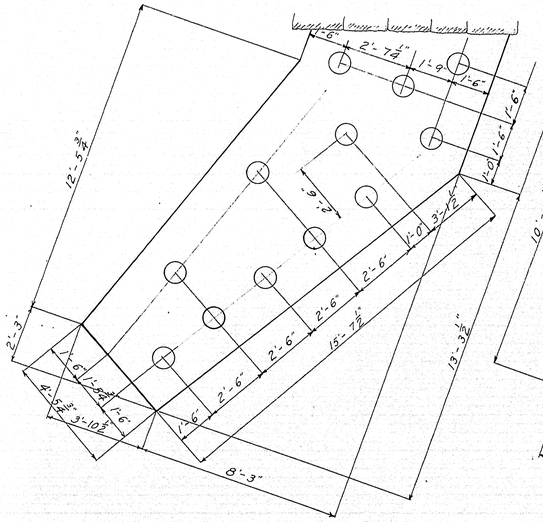
All steel to be structural grade and plain round.

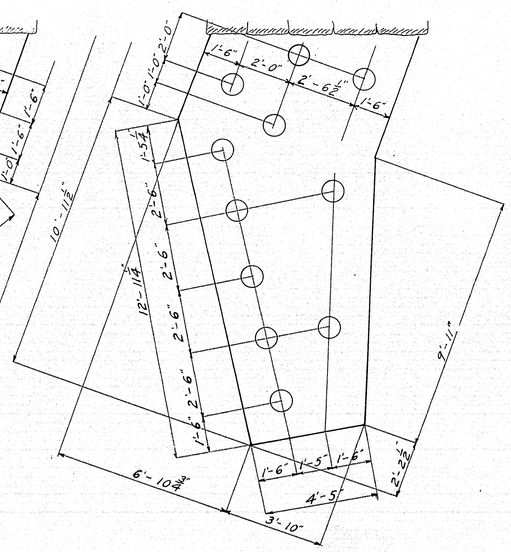
FOOTING STEEL

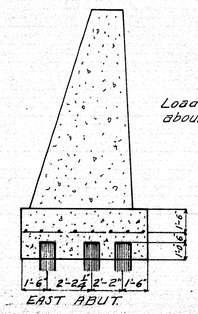




PILE PLAN

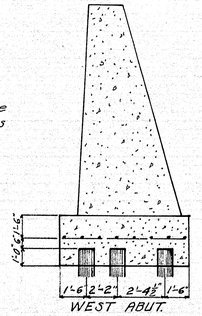




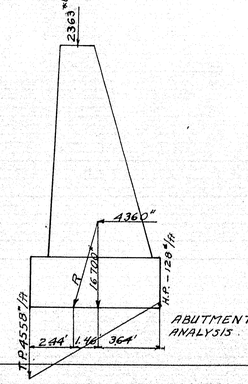


EAST ABUT.

Load per pile about 12 tons



WEST ABUT.



ABUTMENT ANALYSIS

STEEL SCHEDULE
FOOTINGS

Mark	Size	Length	No. Reqd.	Location
J1	⅝ ϕ	15'-6"	1	S.E. Footing
2	"	15'-2"	1	"
3	"	14'-10"	1	"
4	"	14'-6"	1	"
5	"	14'-2"	1	"
6	"	13'-10"	1	"
7	"	13'-6"	1	"
8	"	13'-2"	1	"
9	"	11'-2"	7	"
10	"	4'-2"	3	"
11	"	5'-2"	3	"
12	"	5'-10"	3	"
13	"	6'-6"	3	"
14	"	7'-1"	14	"
15	"	4'-6"	7	"
H1	⅝ ϕ	15'-0"	1	S.W. Footing
2	"	14'-8"	1	"
3	"	14'-4"	1	"
4	"	14'-0"	1	"
5	"	13'-8"	1	"
6	"	13'-4"	1	"
7	"	13'-0"	1	"
8	"	12'-8"	1	"
9	"	14'-0"	7	"
10	"	5'-0"	3	"
11	"	5'-6"	3	"
12	"	6'-0"	3	"
13	"	6'-6"	3	"
14	"	7'-2"	3	"
15	"	7'-4"	14	"
16	"	6'-0"	1	"
17	"	3'-0"	1	"
M1	⅝ ϕ	3'-0"	1	N.E. Footing
2	"	3'-4"	1	"
3	"	3'-8"	1	"
4	"	4'-0"	1	"
5	"	4'-4"	1	"
6	"	4'-8"	1	"
7	"	5'-0"	1	"
8	"	5'-4 11/16"	1	"
9	"	15'-5"	7	"
10	"	4'-3"	2	"
11	"	4'-7"	2	"
12	"	4'-11"	2	"
13	"	5'-3"	2	"
14	"	5'-7"	3	"
15	"	5'-11"	3	"
16	"	7'-1"	6	"
17	"	4'-0"	1	"
N1	⅝ ϕ	3'-6"	1	N.W. Footing
2	"	3'-10"	1	"
3	"	4'-2"	1	"
4	"	4'-6"	1	"
5	"	4'-10"	1	"
6	"	5'-2"	1	"
7	"	5'-6"	11	"
8	"	5'-10"	1	"
9	"	12'-9"	7	"
10	"	4'-3"	2	"
11	"	4'-8"	2	"
12	"	5'-1"	2	"
13	"	5'-6"	2	"
14	"	5'-11"	3	"
15	"	7'-4"	6	"
16	"	5'-3"	1	"
17	"	3'-3"	1	"

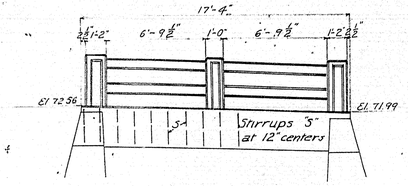
MAINE HIGHWAY COMMISSION
BRIDGE DIVISION

PUMPING STATION BRIDGE
OVER
BRANCH BROOK
BETWEEN THE TOWNS OF
WELLS & KENNEBUNK, YORK CO.
SUBSTRUCTURE

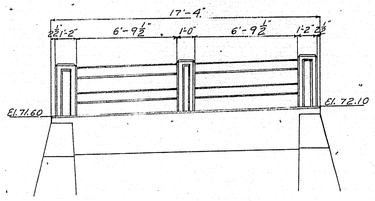
SHEET 3 of 4 AUGUSTA, Me. Mar. 7, 1927

2-167

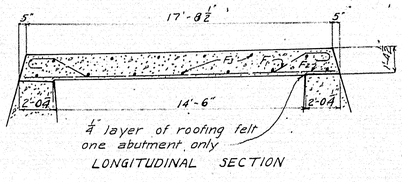
0 1 2 3 4 5 INCHES



DOWNSTREAM ELEVATION

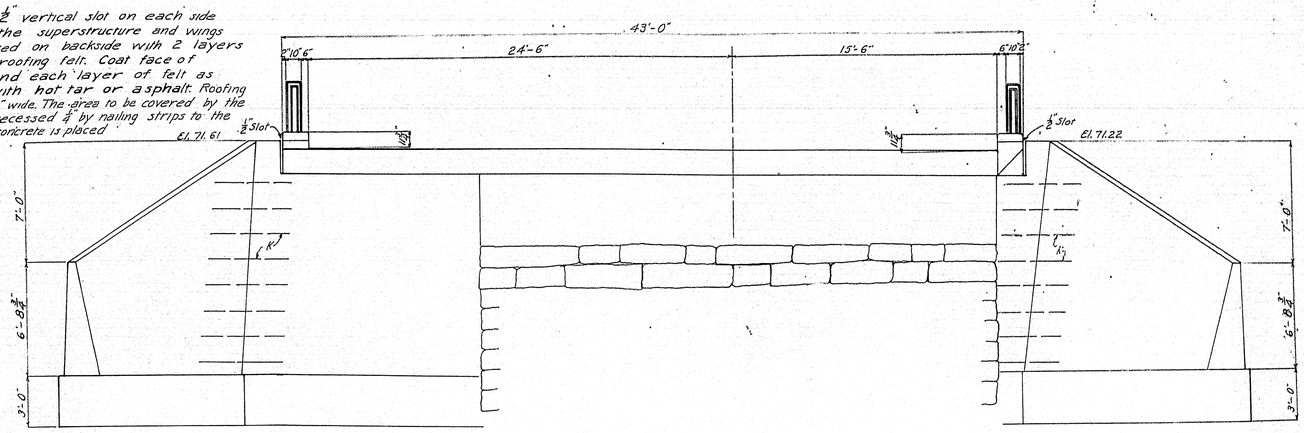


UPSTREAM ELEVATION

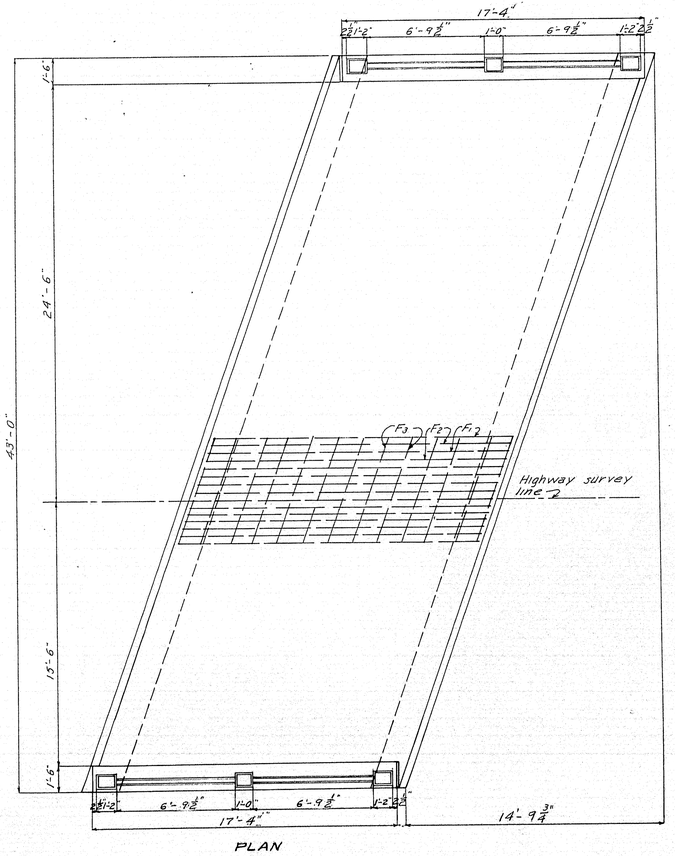


LONGITUDINAL SECTION

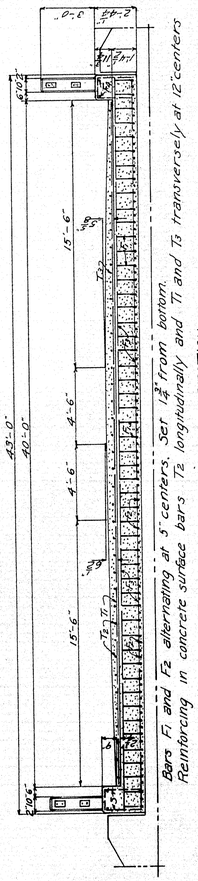
Note: The ½" vertical slot on each side between the superstructure and wings to be covered on backside with 2 layers of heavy roofing felt. Coat face of concrete and each layer of felt as applied with hot tar or asphalt. Roofing felt is to be 10" wide. The area to be covered by the felt is to be recessed ¼" by nailing strips to the form before concrete is placed



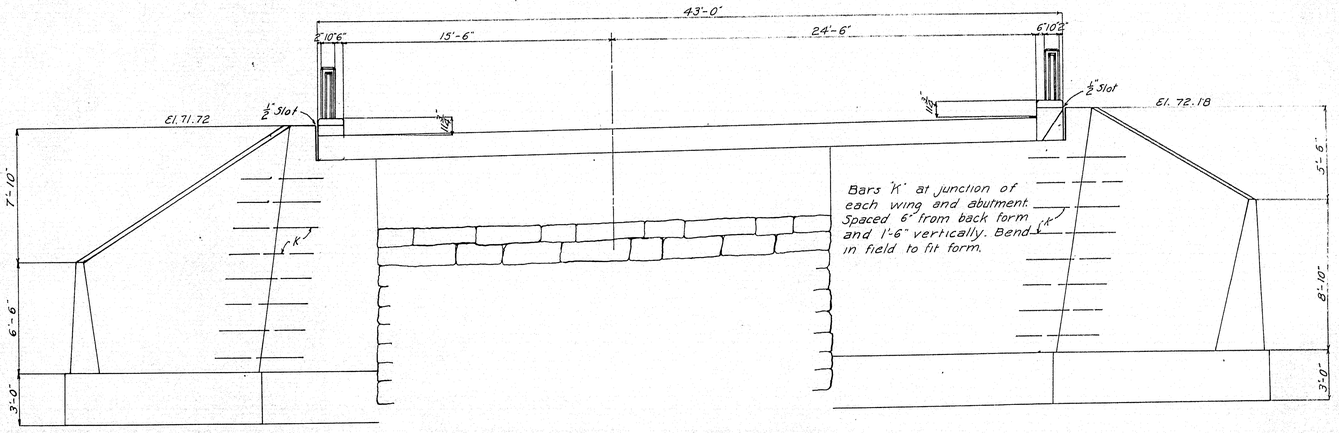
REAR ELEVATION EAST ABUTMENT



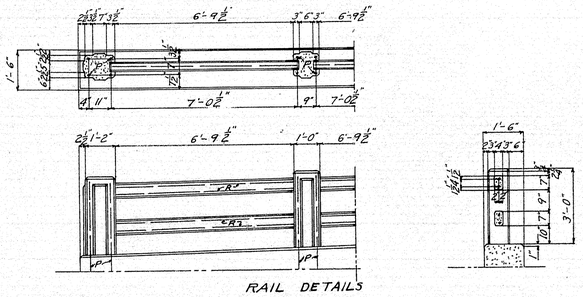
PLAN



TRANSVERSE SECTION



REAR ELEVATION WEST ABUTMENT

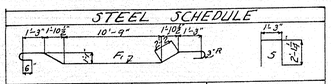


RAIL DETAILS

Rail Construction

Curb to be cast with slab. Steel for posts to be set in curb. Precast rail bars in lengths of 7'-2¾". Place rail bars in position with ends projecting into post forms 2½". Wrap end 6" with two layers of heavy roofing felt, fold in ends. When post forms are removed cut away all felt left exposed. Panels on posts to 8" thick. Chamfer all exposed edges of concrete ½" unless otherwise indicated.

STEEL SCHEDULE



Mark	Size	No. Req'd	Length	Location
F1	⅜"ϕ	52	20'-1⅝"	Slab (bent)
F2	"	51	18'-3⅜"	"
F3	½"ϕ	26	23'-5½"	"
F4	"	4	17'-0"	Curbs
S	"	36	5'-5½"	" (bent)
C1	"	24	31'-0"	Abut. caps
C2	"	22	4'-0"	" "
K	⅝"	32	8'-0"	Abutments-wings
R	⅜"ϕ	16	7'-1⅝"	Railing
P	⅜"ϕ	24	4'-0"	Posts
T1	⅜"ϕ	18	21'-1⅝"	Road slab
T2	"	40	17'-6½"	" "
T3	"	18	22'-9½"	" "

Splice at center

All steel to be plain round structural grade. Dimensions of steel are to center of bar. See sheet 3 for steel in footings.

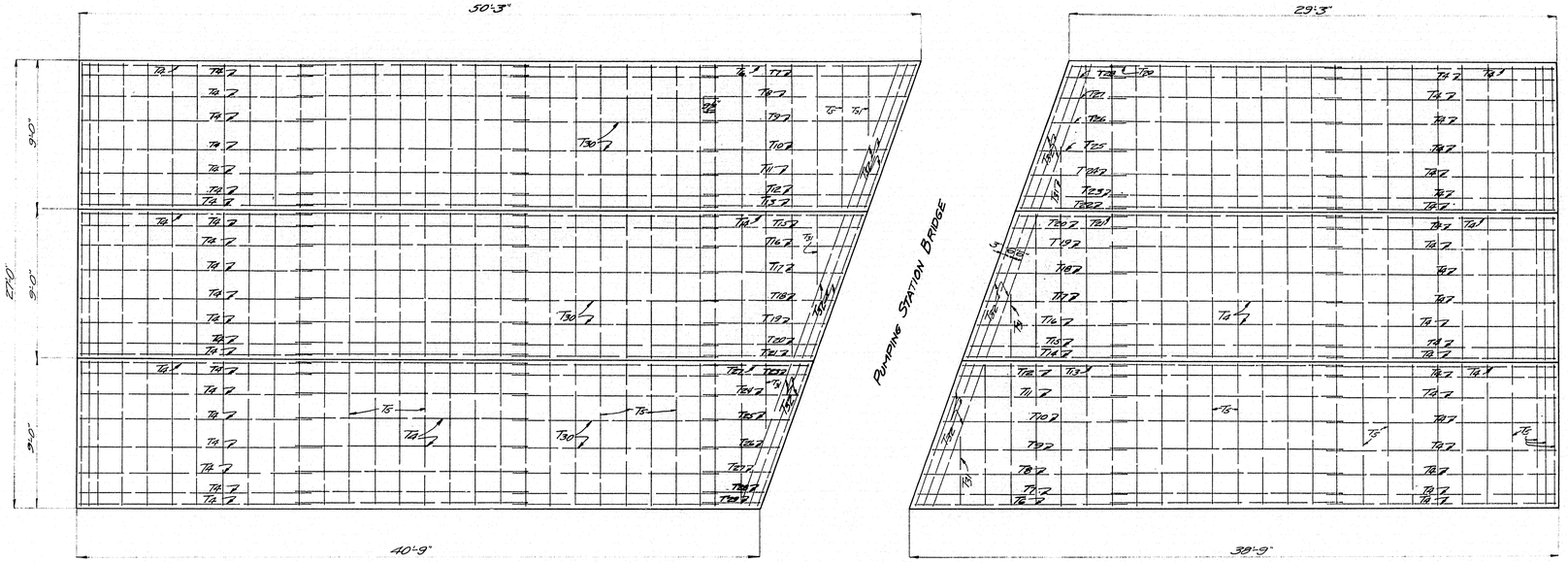
MAINE HIGHWAY COMMISSION
BRIDGE DIVISION

PUMPING STATION BRIDGE
OVER
BRANCH BROOK
BETWEEN THE TOWNS OF
WELLS & KENNEBUNK, YORK CO.
SUPERSTRUCTURE

SHEET 4 of 4 AUGUSTA, Me Mar. 7, 1927

2-168

0 1 2 3 4 5 INCHES



STEEL SCHEDULE

Mark	Size	No. Reqd	Length	Mark	Size	No. Reqd	Length
Ta	½"	96	13'-11"	Tg	½"	2	7'-2"
5		162	8'-10"	20		2	6'-9"
6		2	12'-8"	21		2	6'-5"
7		2	12'-6"	22		2	6'-4"
8		2	12'-1"	23		2	6'-1"
9		2	11'-6	24		2	5'-8"
10		2	10'-1"	25		2	5'-2"
11		2	10'-5"	26		2	4'-5"
12		2	10'-0"	27		2	3'-11"
13		2	9'-9"	28		2	3'-6"
14		2	9'-7"	29		2	3'-2"
15		2	9'-8"	30		24	12'-7"
16		2	8'-10"	31		6	1'-0"
17		2	8'-4"	32		18	9'-3"
18		2	7'-9"				

All steel to be plain rounds structural grade.

For section of slabs and location of steel see plans of State Highway "A" Wells-Kennebunk.

REINFORCING PLAN - APPROACH SLABS

MAINE HIGHWAY COMMISSION
BRIDGE DIVISION

PUMPING STATION BRIDGE

OVER

BRANCH BROOK

BETWEEN THE TOWNS OF

WELLS AND KENNEBUNK, YORK CO.

APPROACH SLABS

Sheet 4A Augusta, Me., Oct 1927

2-169

0 1 2 3 4 5 INCHES