PHOTOGRAPHS

FRASER RIVER BRIDGE

NEW WESTMINSTER, B. C.

Compliments of

Armstrong, Morrison & Co.

RESIDENT ENGINEER
H·K·SELTZER
JAS·L·WADDELL
CONSULTING ENGINEERS
ITO·HEDRICK
C·P·MOSS
REST·ENGINEER
ASST.
V·H·ARMSTRONG
ALEX·MORRISON
ROB·BALFOUR
CONTRACTORS·FOR·SUBSTRUCTURE

1902. — THE FRASER RIVER BRIDGE — 1904.

— AT —

— NEW WESTMINSTER, BRITISH COLUMBIA, CANADA. —

— BUILT BY —

— THE GOVERNMENT OF THE PROVINCE OF BRITISH COLUMBIA. —

DESIGNED BY & BUILT UNDER SUPERVISION OF
WADDELL & HEDRICK CONSULTING ENGINEERS,
KANSAS CITY, MISSOURI, U.S.A.

THE HONOURABLE W.C. WELLS, CHIEF COMM. OF LANDS & WORKS.
F.C. GAMBLE, ESQ., C.E., PUBLIC WORKS ENGINEER.

CONTRACTORS FOR SUBSTRUCTURE & APPROACHES,
ARMSTRONG, MORRISON & BALFOUR,
VANCOUVER, B.C.

CONTRACTORS FOR SUPERSTRUCTURE,
THE DOMINION BRIDGE CO., LTD.
MONTREAL.

DATA :-

STRUCTURE DESIGNED TO CARRY STEAM, ELECTRIC & VEHICULAR TRAFFIC.

CONSTRUCTION BEGUN AUG 1902. BRIDGE COMPLETED JULY 1904. APPROXIMATE COST $1,000,000.00

THE RIVER IS TIDAL WITH A DIFFERENCE OF 14 FEET BETWEEN HIGH & LOW WATER. WIDTH OF RIVER AT ORDINARY WATER LINE 2100 FEET.

SUBSTRUCTURE CONSISTS OF 17 PIERS, 11 PEDESTALS & 3 ABUTMENTS.

BOTTOM OF DEEPEST PIER 141 FEET BELOW HIGH WATER. DEPTH OF WATER AT THIS POINT 72 FEET. PENETRATION OF PIER INTO RIVER BED 69 FEET. PIVOT PIER OF DRAW SPAN HAS PENETRATION OF 90 FEET INTO RIVER BED. THE MAIN CHANNEL PIER WAS LANDED ON RIVER BED IN 80 FEET OF WATER. BOTTOM AT THIS POINT 87 FEET BELOW HIGH WATER.

BRITISH COLUMBIA GRANITE, SUPPLIED BY THE VANCOUVER GRANITE COMPANY OF VANCOUVER B.C., WAS USED FOR THE MASONRY SHAFTS OF PIERS.

WT. OF STEEL IN STRUCTURE NEARLY 4000 TONS. TOTAL LENGTH OF STEEL WORK 2400 FT. TOTAL LENGTH OF RAILWAY APPR'S. 7715 FEET. TOTAL LENGTH OF HIGHWAY APPR'S. 1870 FT.

TOTAL LENGTH OF BRIDGE & APPR'S. 11985 FEET.

CENTER LINE, SOUTH SHORE.
JULY 10TH 1902.

GENERAL VIEW FROM NORTH SIDE.
JULY 10 TH, 1902.

LINE OF BRIDGE LOOKING SOUTH.
JULY 10 TH, 1902.

ABUTMENT C AUG. 15TH, 1902.

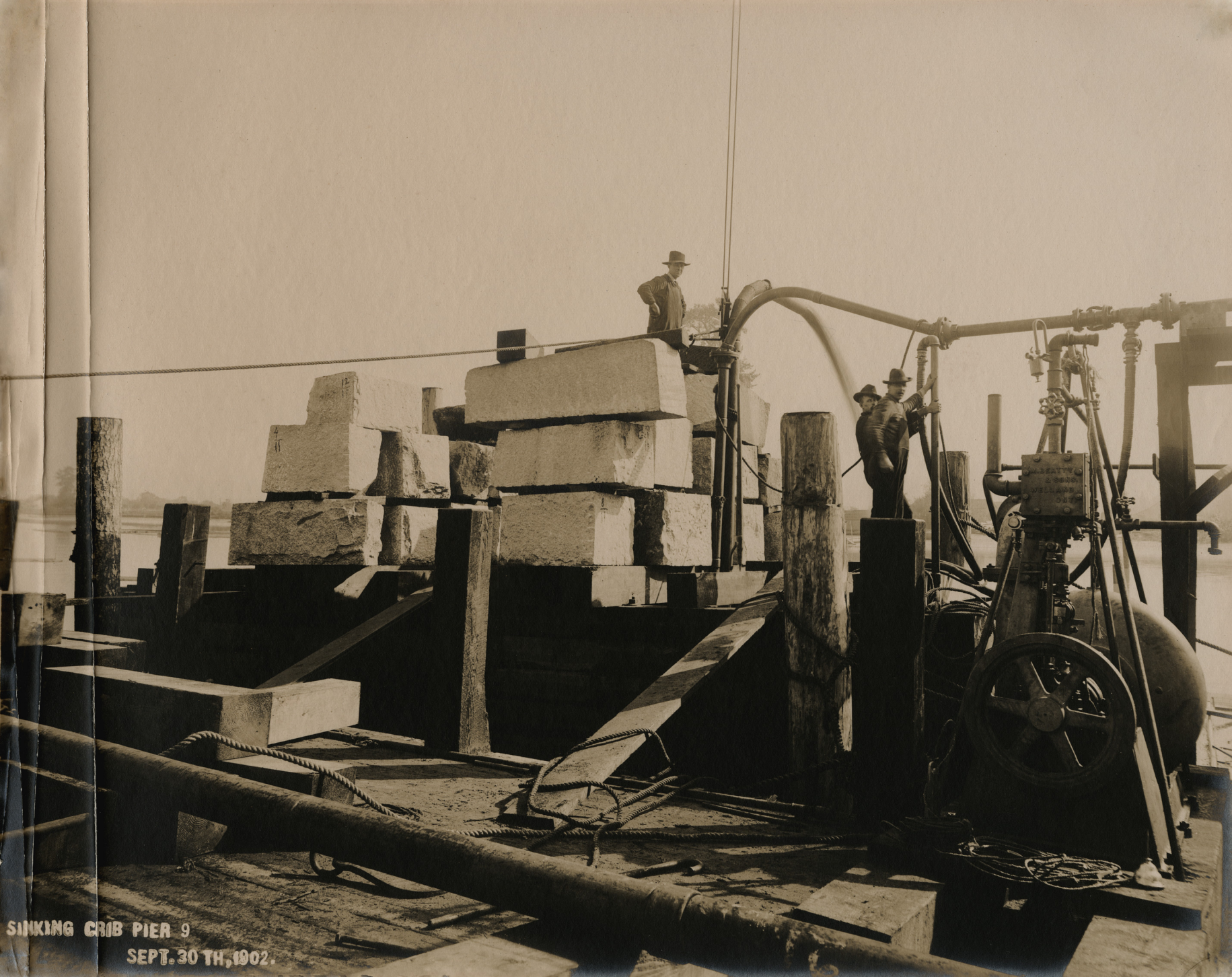
ABUTMENT B AUG-26TH 1902

ABUTMENT "A" SEPT 8TH. 1902

LAWRENCE, MASS. SEPT. 12TH 1902

PILE DRIVER & POWER SCOW,

BLASTING PIER 11
SEPT. 25 TH, 1902.


SINKING CRIB PIER 9
SEPT. 30 TH, 1902.

CRIB, PIER NO. 9 SEPT. 30TH, 1902.

DREDGING PIER 11. OCT. 24TH, 1902.

INSIDE CRIB PIER 10.OCT.25TH,1902.

GENERAL VIEW FROM NORTH SIDE.
OCT. 28TH, 1902.

CRIB PIER NO. 5 NOV. 3RD, 1902.

CRIB, PIER NO. 5 NOV. 3RD, 1902.

GENERAL VIEW, NOV 5TH. 1902.

CRIB, PIER NO. 6 NOV. 10TH, 1902.

CUTTING EDGE PIER NO. 4.
DEC. 9 TH, 1902.

CUTTING EDGE PIER 4.
JAN. 5TH, 1903.

SINKING PIVOT PIER.
JAN. 5TH 1903

SINKING PIVOT PIER.
JAN. 5TH, 1903.

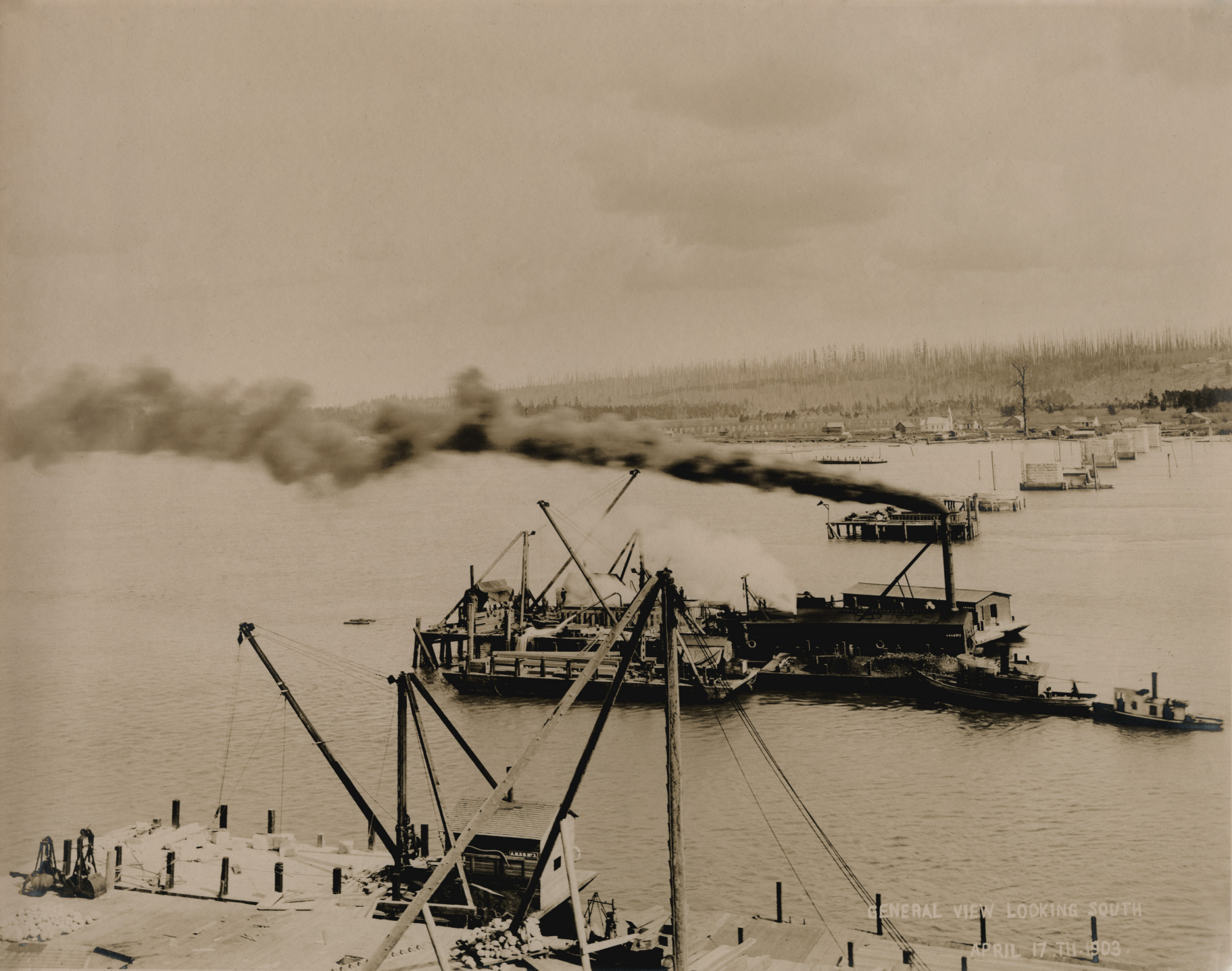
GENERAL VIEW LOOKING NORTH
1903.

GENERAL VIEW LOOKING SOUTH.
FEB. 4TH. 1903.

GENERAL VIEW LOOKING SOUTH
MARCH 12TH 1903.

GENERAL VIEW LOOKING SOUTH
APRIL 1ST 1903.

LAND PILE DRIVER APRIL 15TH. 1903.


GENERAL VIEW LOOKING SOUTH
APRIL 17 TH 1903

GENERAL VIEW LOOKING SOUTH.
APRIL 22 ND 1903.

PIER No. 3. BUILDING CRIB.

DREDGING PIER NO 3.

APRIL 22 ND. 1903.

REMOVING LOG PIER NO 3.
APRIL 27,TH.1903.

GENERAL VIEW MAY 15TH. 1908.

JUNE 11TH 1903.

Office of
Resident Engineer

FLEET LAID UP DURING HIGH WATER
JUNE 20TH, 1903

MASONRY, PIER NO 4. AUG. 8TH, 1903.

SUPERSTRUCTURE SOUTH SIDE
AUG. 8TH 1903.

GENERAL VIEW LOOKING SOUTH.

AUGUST 13TH 1903.

DREDGING PIER NO2. AUG 17TH. 1903.

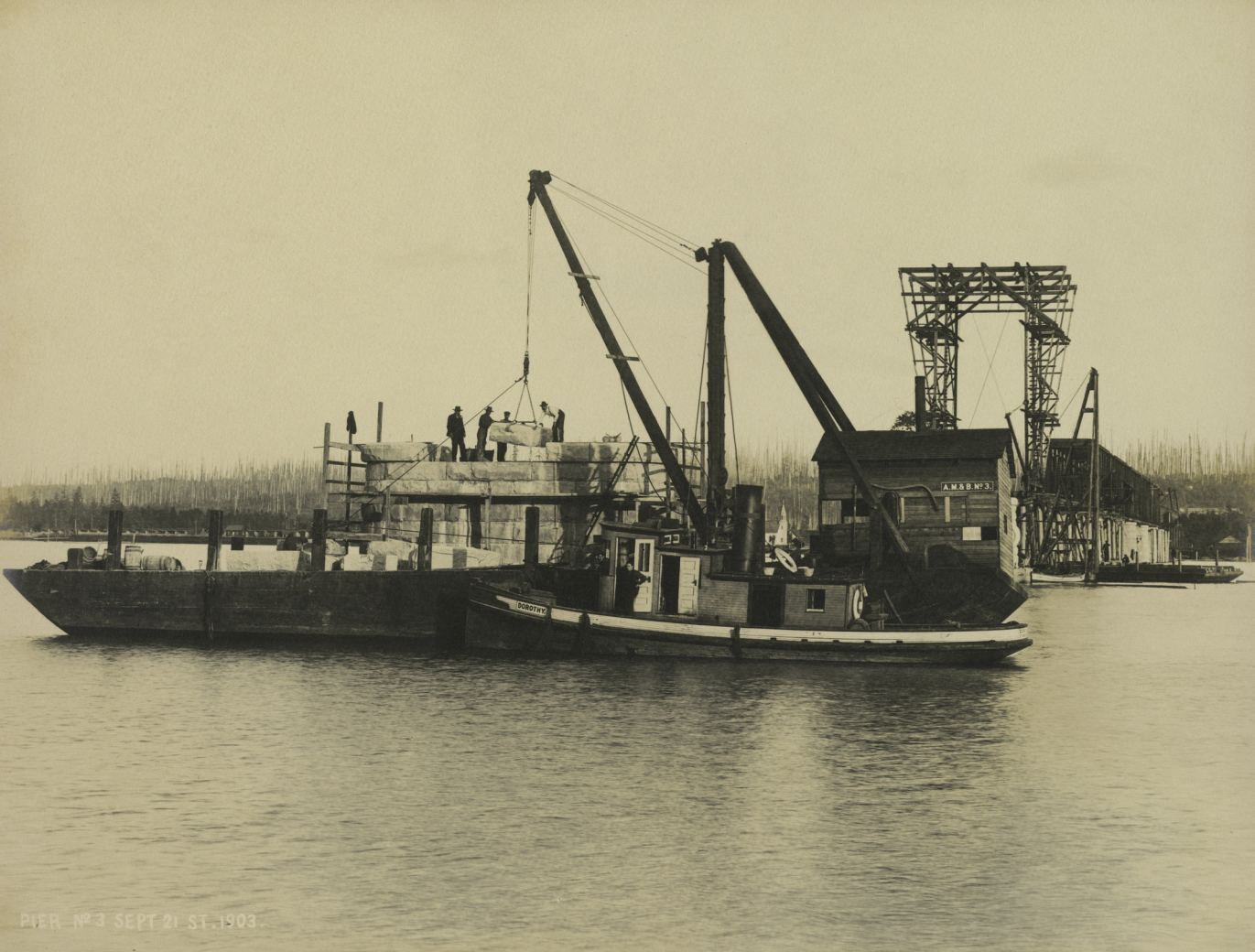
LAYING STONE IN COFFER-DAM.
PIER No 3. AUG. 27TH 1903.

OPERATING PNEUMATIC TOOLS.

SEPT. 8TH. 1903

GENERAL VIEW FROM SOUTH SHORE.
SEPT 10 TH. 1903.

GENERAL VIEW FROM NORTH SHORE.
SEPT 14 TH 1905

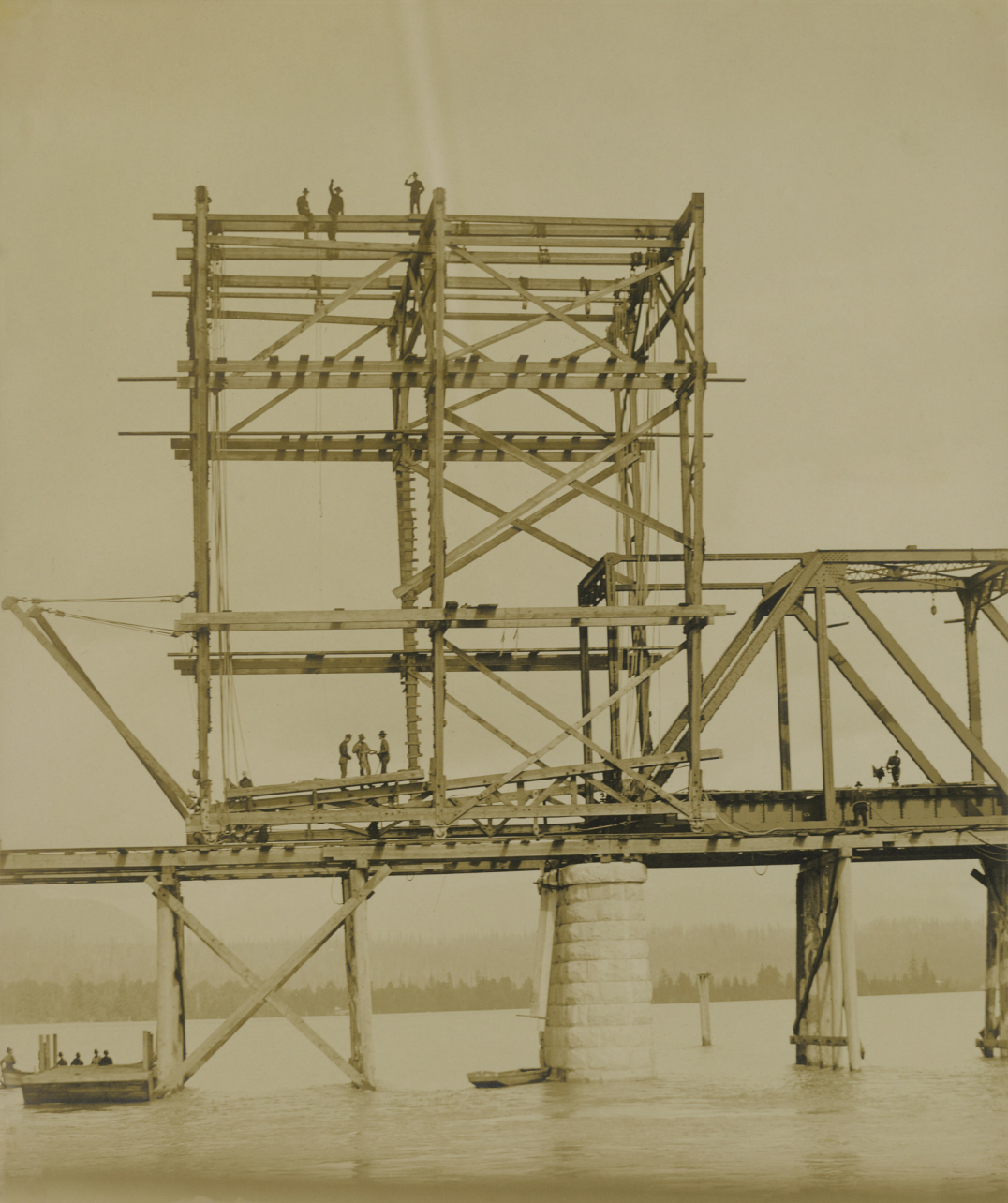

A.M.S.B. No 3.
DOROTHY
PIER No 3 SEPT 21 ST. 1903.

COFFER-DAM, PIER Nº 2. SEPT 28TH 1903.

COMPLETING MASONRY PIER No 3

OCT 12TH. 1903.

COMPLETING SUBSTRUCTURE OCT 24TH 1903.



FLOATING 380 FT SPAN NOV 11TH 1903.

A.M.&B.No.3

FLOATING ONE HALF OF SPREAD SPAN

PORTAL OF SPREAD SPAN

SPREAD SPAN READY FOR FLOATING.

WESTERN SPAN FLOATING.

BAGGAGE

OFFICIAL OPENING OF BRIDGE. JULY 23RD 1904.