DRAWING NUMBER B1

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

OREGON WAY
25' PAVEMENT

℄ Existing Track

PORT OF KELSO PROPERTY LINE

L.P.&N. Track No. 16

℄ Proposed Track

℄ Dyke

Ferry Landing

Ramp 10%

Shed #1

Shed #2

℄ Track

00 Contour

Future Track 2

400'-0"
9 Cars

Future Track 3

Future Shed 50'x150'

SITE FOR FUTURE FLOUR MILL AND SEED MILL

Future STORAGE

Jitney Road on Trestles

Shipping Gallery

Existing Stiff Boom piles 30'o.c.

600 Ton Bag Shed 30'x100'

Back Spout

PIER HEAD LINE

60' 48' 109' 854' 240' 400'x20' N/Unif

COLUMBIA RIVER

KEY PLAN
Scale 1"=3500'

KELSO

LONGVIEW

One mile

NP RR

CONLITZ RIVER

LP&N RR

Two mile

THE LONG BELL LUMBER COMPANY

Manufacturing

Commercial District

Proposed Grain Elevator

Ferry

RAINIER

COLUMBIA RIVER

SITE PLAN
SCALE 1" = 100'

GRAIN ELEVATOR
FOR
PORT OF KELSO, WASH.

JOHN S. METCALF CO. LIMIT
ENGINEERS VANCOUV
LONDON-MONTREAL-CHICA

DR. J.R.L 20 JAN. 19
TR. A.D.F 26 - 19
CK. A.D.F 26 - 19
AP.

DATE PRINTED JAN 27 1927

XB-11C

Sheet No. 7

PRELIMINARY

DRAWING NUMBER B2

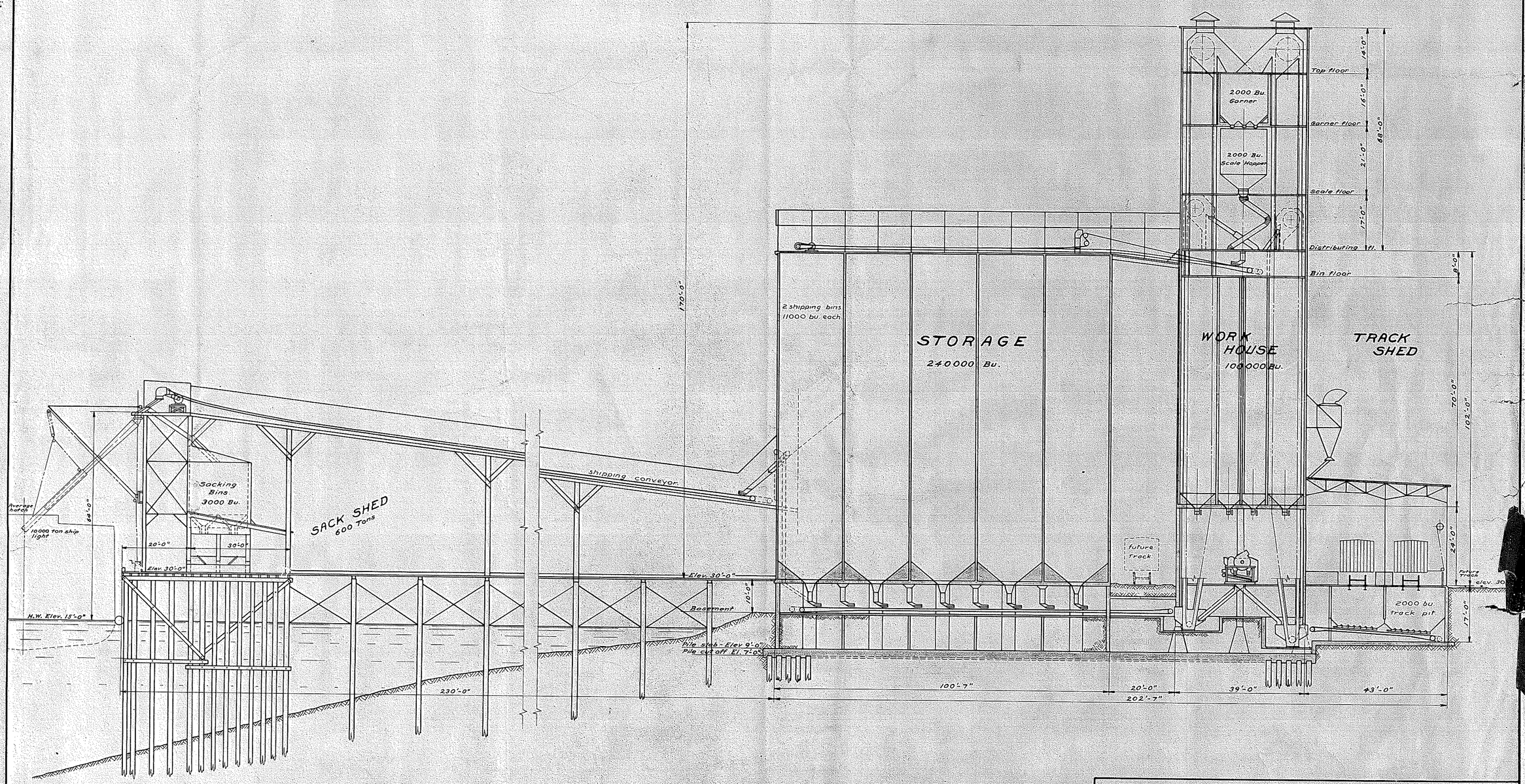
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 07548

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 07548

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 07548



CROSS SECTION

SCALE $\frac{1}{16}$" = 1'-0"

GRAIN ELEVATOR

FOR

PORT OF KELSO, WASH.

JOHN S. METCALF CO. LIMITED
ENGINEERS VANCOUVER
LONDON-MONTREAL-CHICAGO

Dr. J.R.L. 21 JAN. 1927.
Tr. E.S. 26 " 1927.
Ck. A.D.F 26 " 1927.

DATE PRINTED JAN 27 1927 AP.

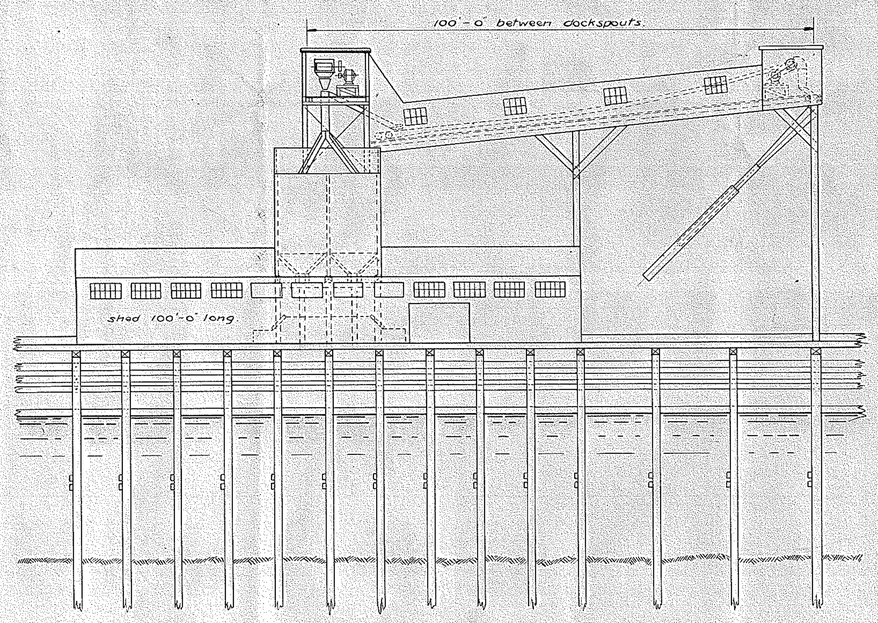
XB-1108

SHEET 2

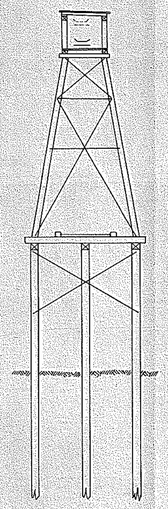
PRELIMINARY

9588

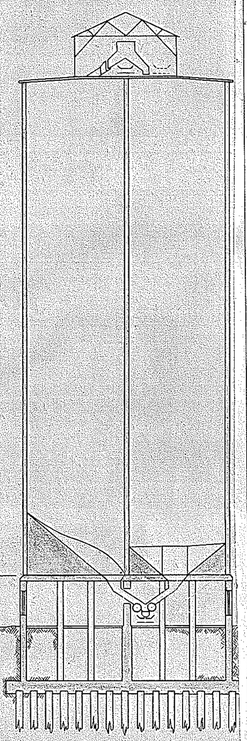
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PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REDRAWN BY HOWARD OTSAR



WHARF FACILITIES
LOOKING SOUTH

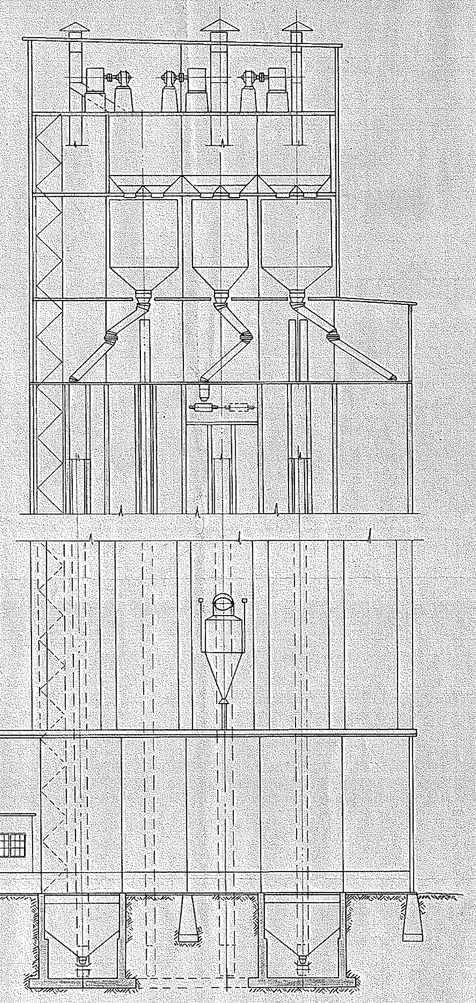


SHIPPING GALLERY



STORAGE HOUSE

SHEET No 6



WORKING HOUSE

March 15 1927

Port XB-1109

SECTIONS
SCALE 1" = 1'-0"

GRAIN ELEVATOR
FOR
PORT OF KELSO, WASH.

JOHN S. METCALF CO. LIMITED
ENGINEERS VANCOUVER
LONDON-MONTREAL-CHICAGO

DR. J.R.L.
TR.
DATE PRINTED 26 JAN. 1927
CK. A.D.F. 27 " "
JAN 27 1927 AP.

XB-1109

PRELIMINARY

95-90.

DRAWING NUMBER B4

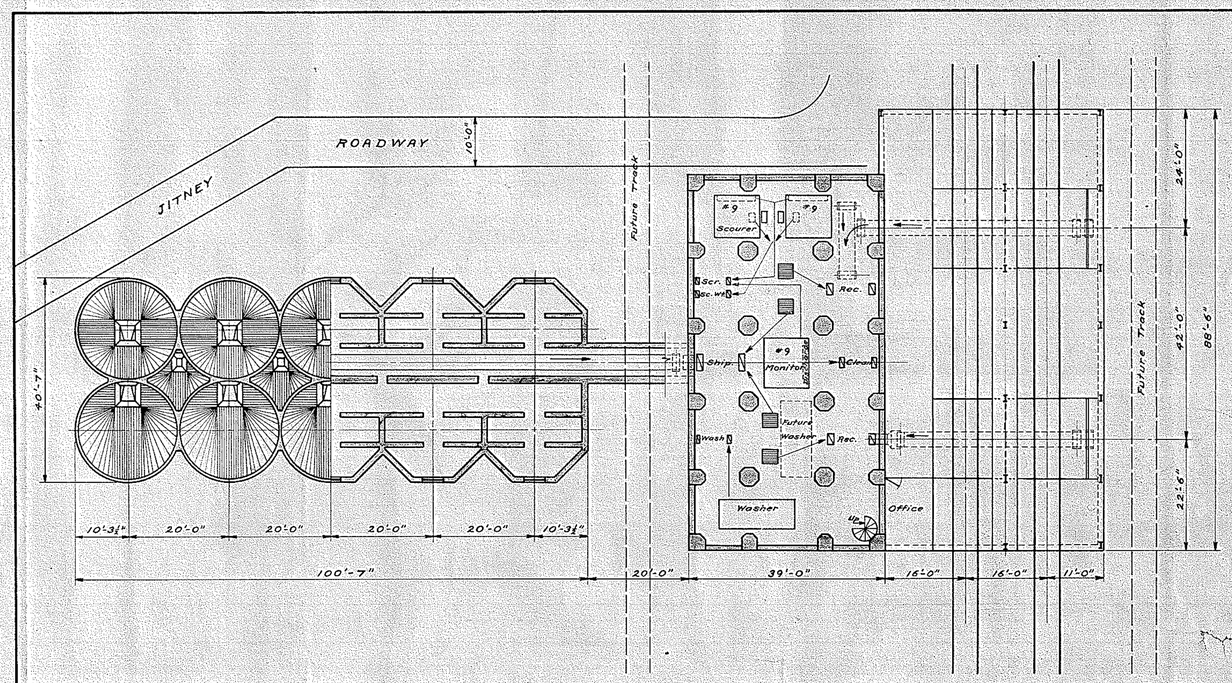
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 07548

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 07548

DRAWING NUMBER

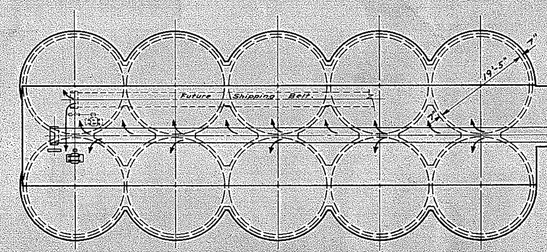
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 07548

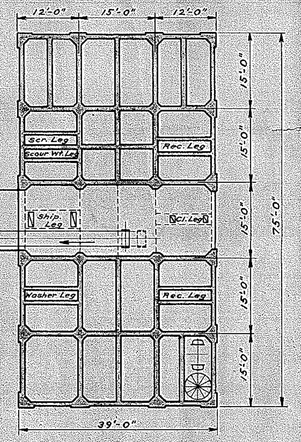


STORAGE BINS

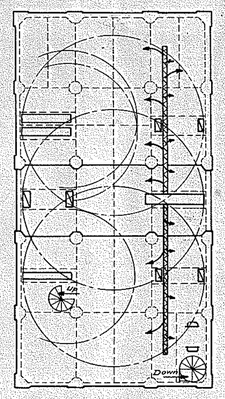
STORAGE BASEMENT

GROUND FLOOR PLAN

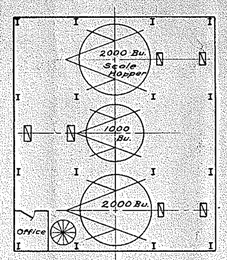




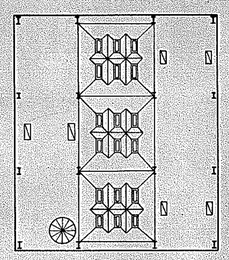
BIN PLAN



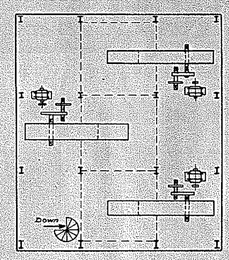
SPOUTING FLOOR PLAN



SCALE FLOOR



GARNER FLOOR



TOP FLOOR

FLOOR PLANS

SCALE 1/16" = 1'-0"

GRAIN ELEVATOR
FOR
PORT OF KELSO, WASH.

JOHN S. METCALF CO. LIMITED
ENGINEERS VANCOUVER
LONDON-MONTREAL-CHICAGO

Dr. J.R.L. 20 JAN 1927
Tr. E.S. 27 " 1927
Ck. A.D.F. 27 " 1927
Ap.

DATE PRINTED JAN 27 1927

XB-1110

PRELIMINARY

9587

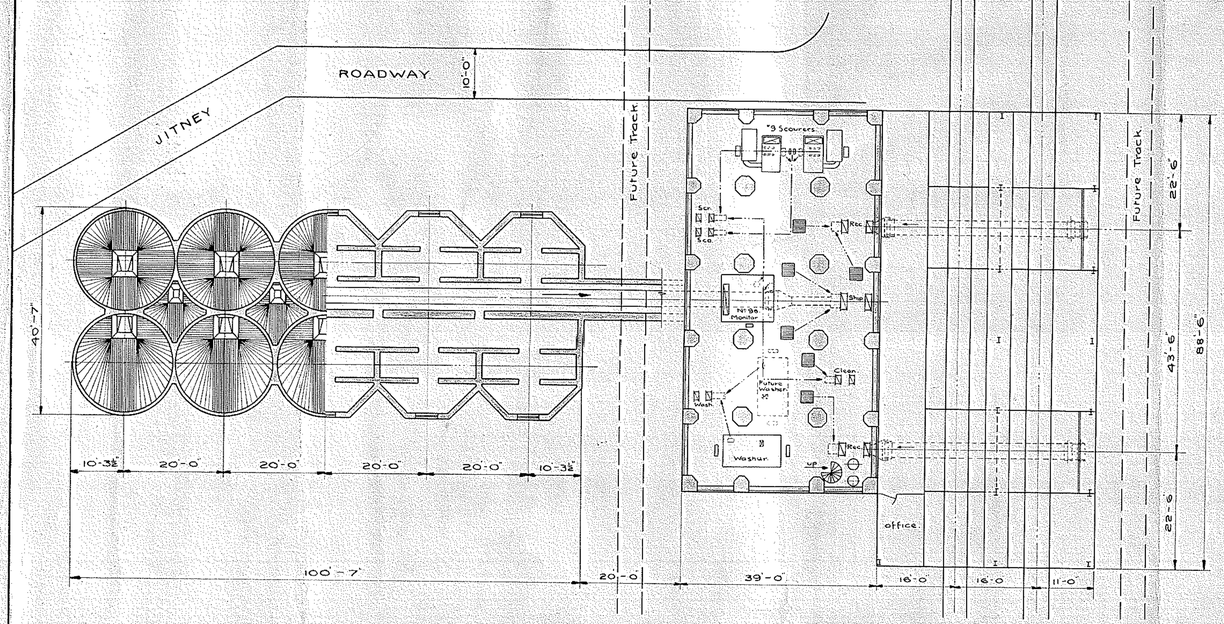
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PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

ANY HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER 07548

DRAWING NUMBER

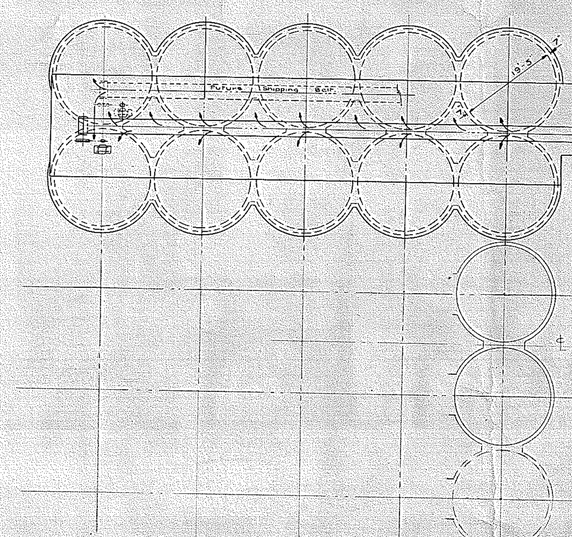
PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

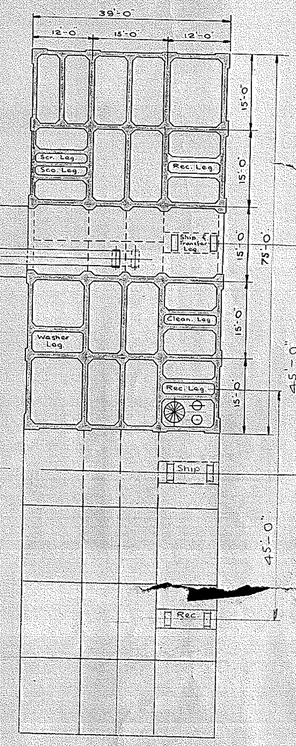


STORAGE BINS

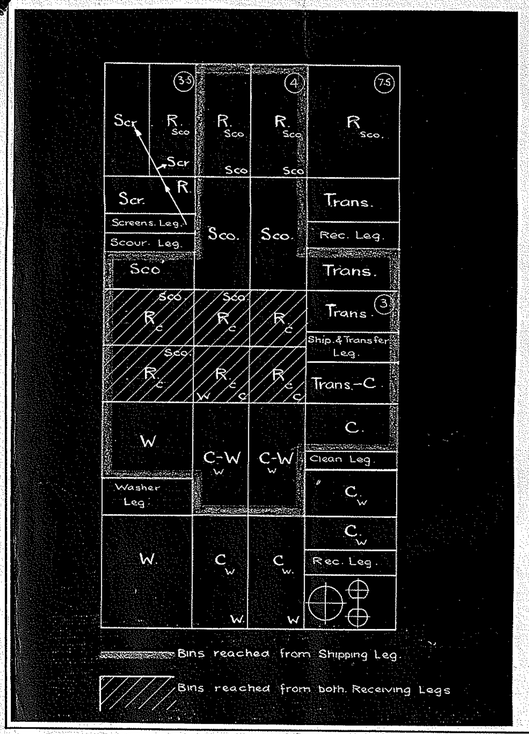
STORAGE BASEMENT

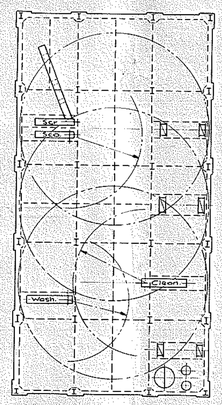
GROUND FLOOR PLAN



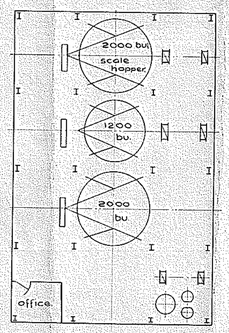


BIN PLAN

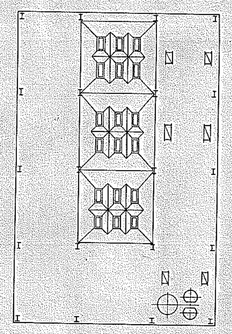




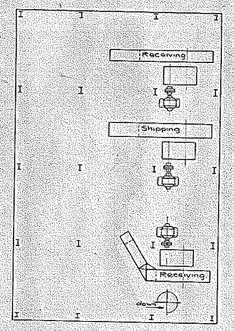
SPOUTING FLOOR



SCALE FLOOR



GARNER FLOOR



TOP FLOOR

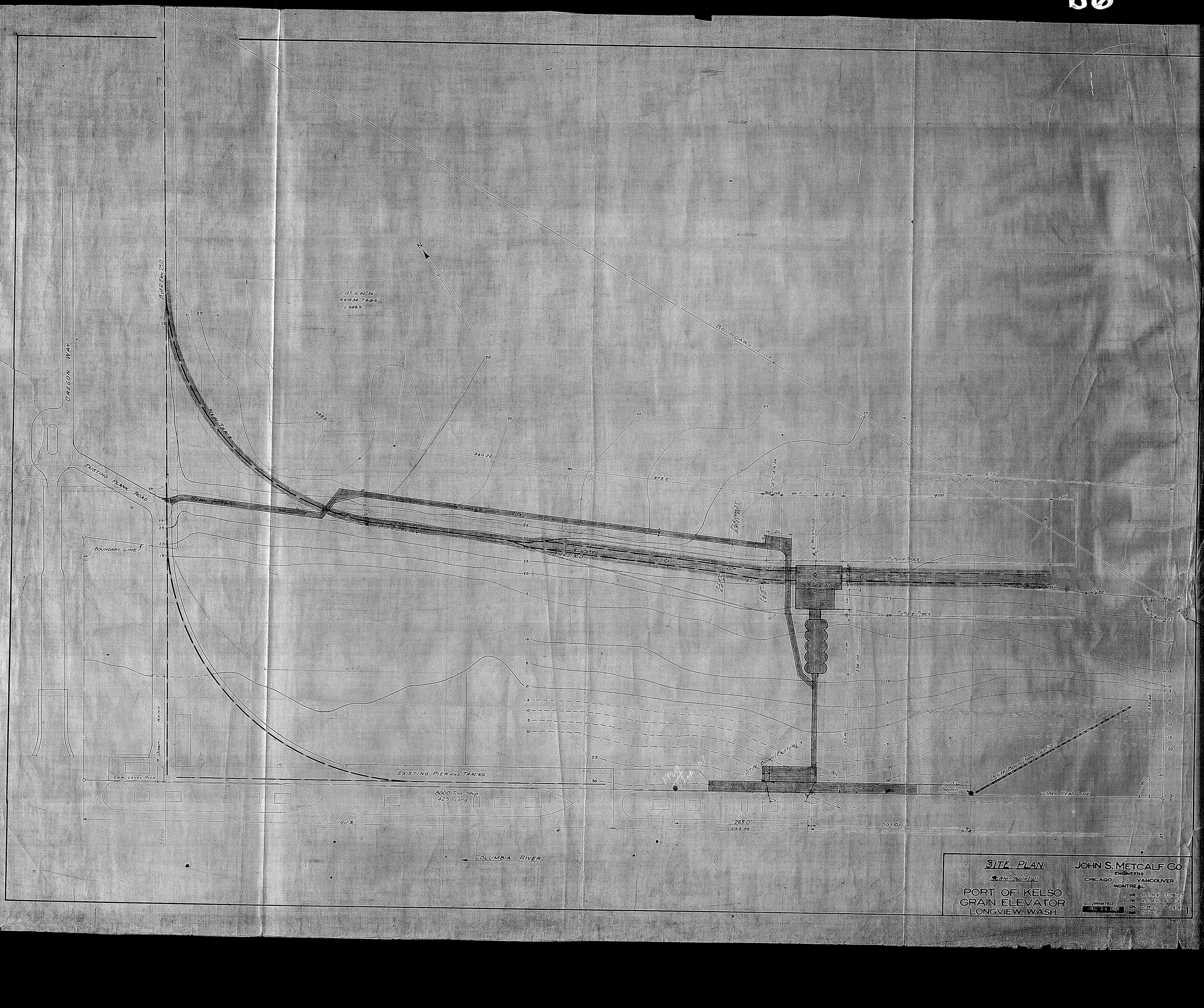
REVISED
FLOOR PLANS
SCALE 1/16" = 1'-0"
GRAIN ELEVATOR
FOR
PORT OF KELSO, WASH.

JOHN S. METCALF CO. LIMITED
ENGINEERS VANCOUVER
LONDON-MONTREAL-CHICAGO

DR. J.R. Lyall
TR.
CK.
AP.
DATE PRINTED 1927
10 March 1927

9645

B6



SITE PLAN

Scale 1"=40'-0"

PORT OF KELSO
GRAIN ELEVATOR
LONGVIEW, WASH.

JOHN S. METCALF CO.
ENGINEERS
CHICAGO : VANCOUVER
MONTREAL

DR. HCHV. 5-25-27
TR. HCHV. 6-15-27
CK. JMR. 7-28-27
AR. CTR.

PRINTED JUL 21 1928

1

GENERAL LAYOUT PLAN

Scale-1/16"-1'-0"

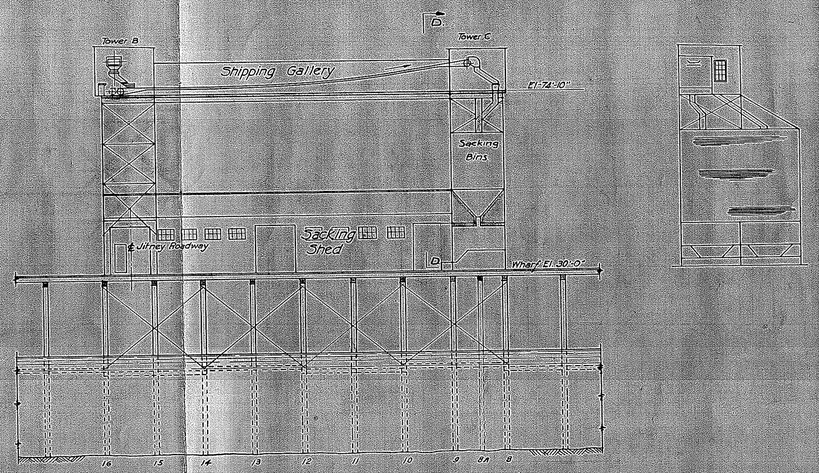
PORT OF KELSO
GRAIN ELEVATOR
LONGVIEW, WASH.

JOHN S. METCALF CO.
ENGINEERS
CHICAGO - - VANCOUVER
MONTREAL

DR H.C.H.V. 5-30-27
TR J.O.V. 6-24-27
CK J.R.L. 7-29-27
AP S.P.C.

2

6-9-28

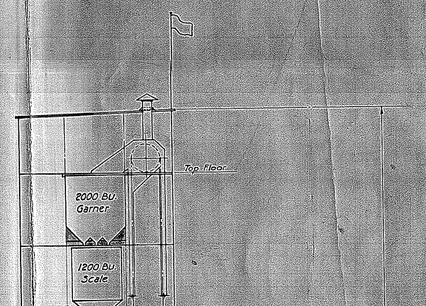


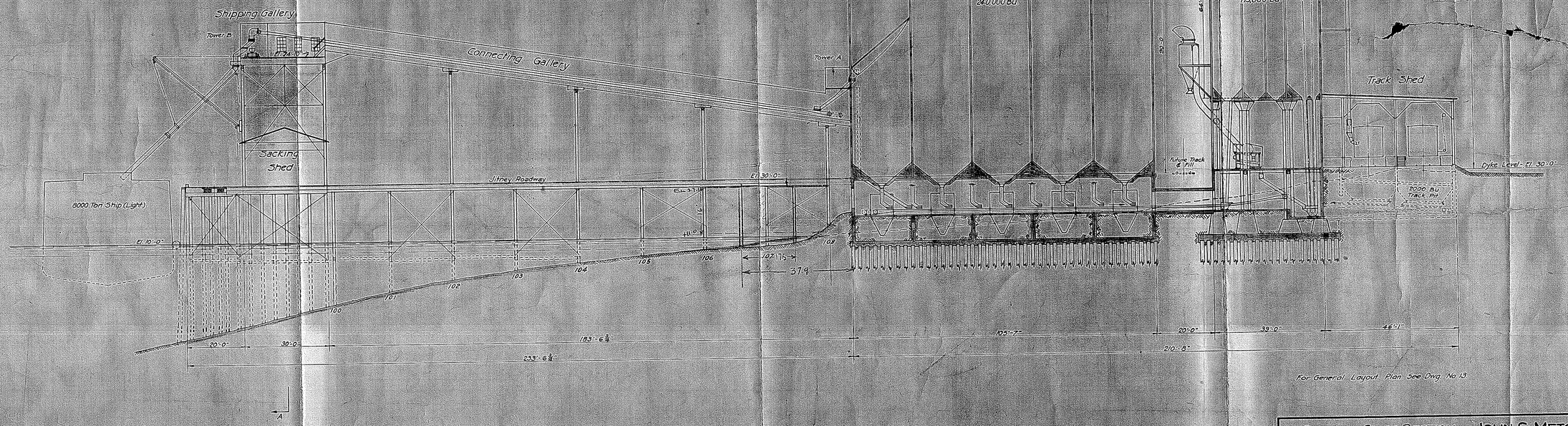
SECTION OF SHIPPING GALLERY & SACKING SHED

On Line AA

EAST ELEVATION OF TOWER C

On Line D-D





For General Layout Plan See Dwg. No. 13.

GENERAL CROSS SECTION

Scale 1/8" = 1'-0"

PORT OF KELSO
GRAIN ELEVATOR
LONGVIEW, WASH.

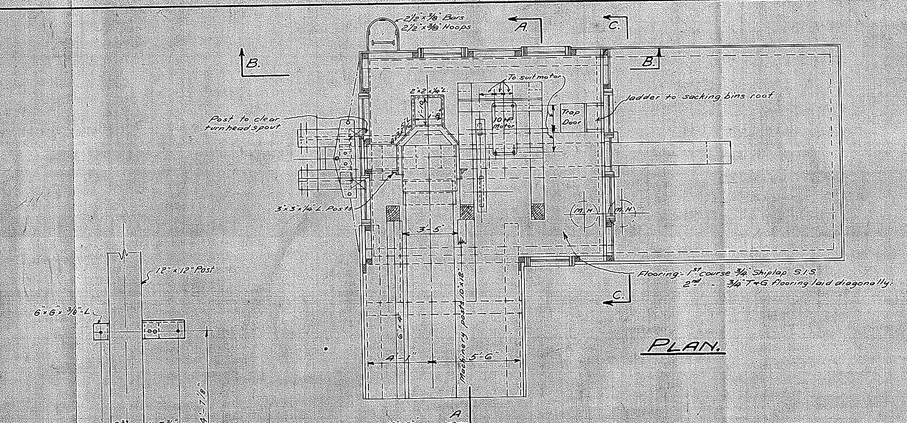
JOHN S. METCALF CO.
ENGINEERS
CHICAGO VANCOUVER
MONTREAL

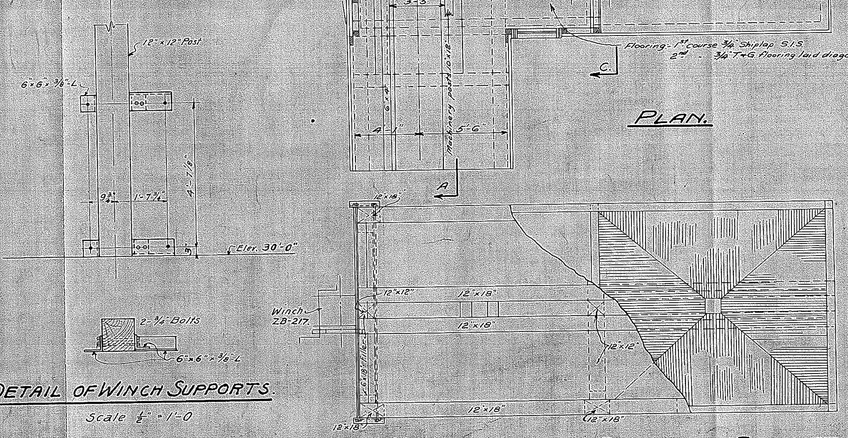
DR. S.B.M. & H.C.M. 6-17-27
TR. J.B.S. 6-27-27
CK. J.A.L. 8-5-27
AP. C.T.S.

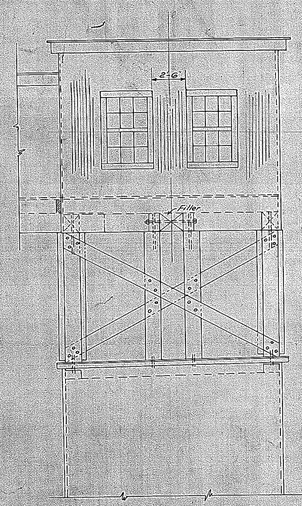
PRINTED AUG 12 1927

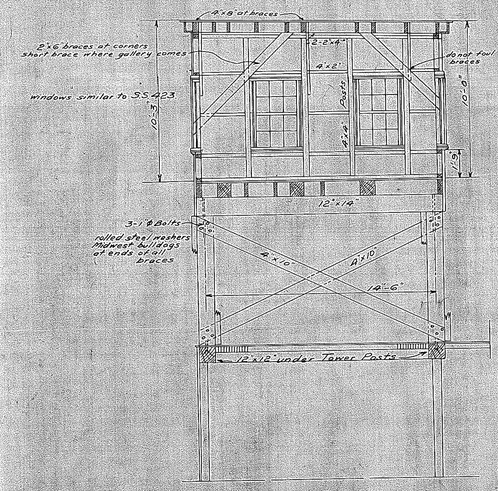
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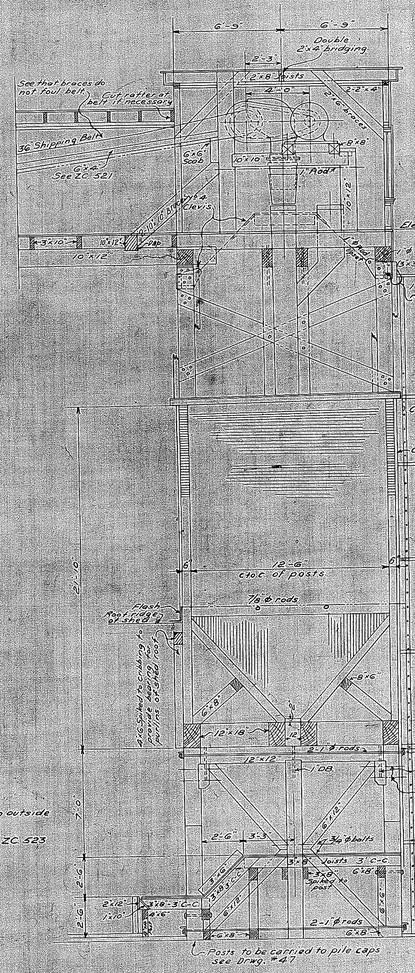
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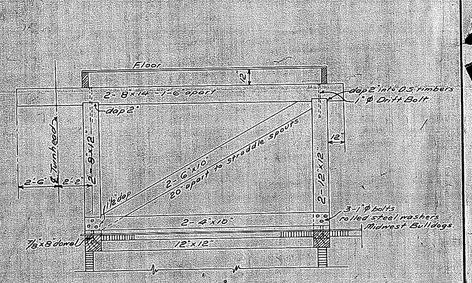


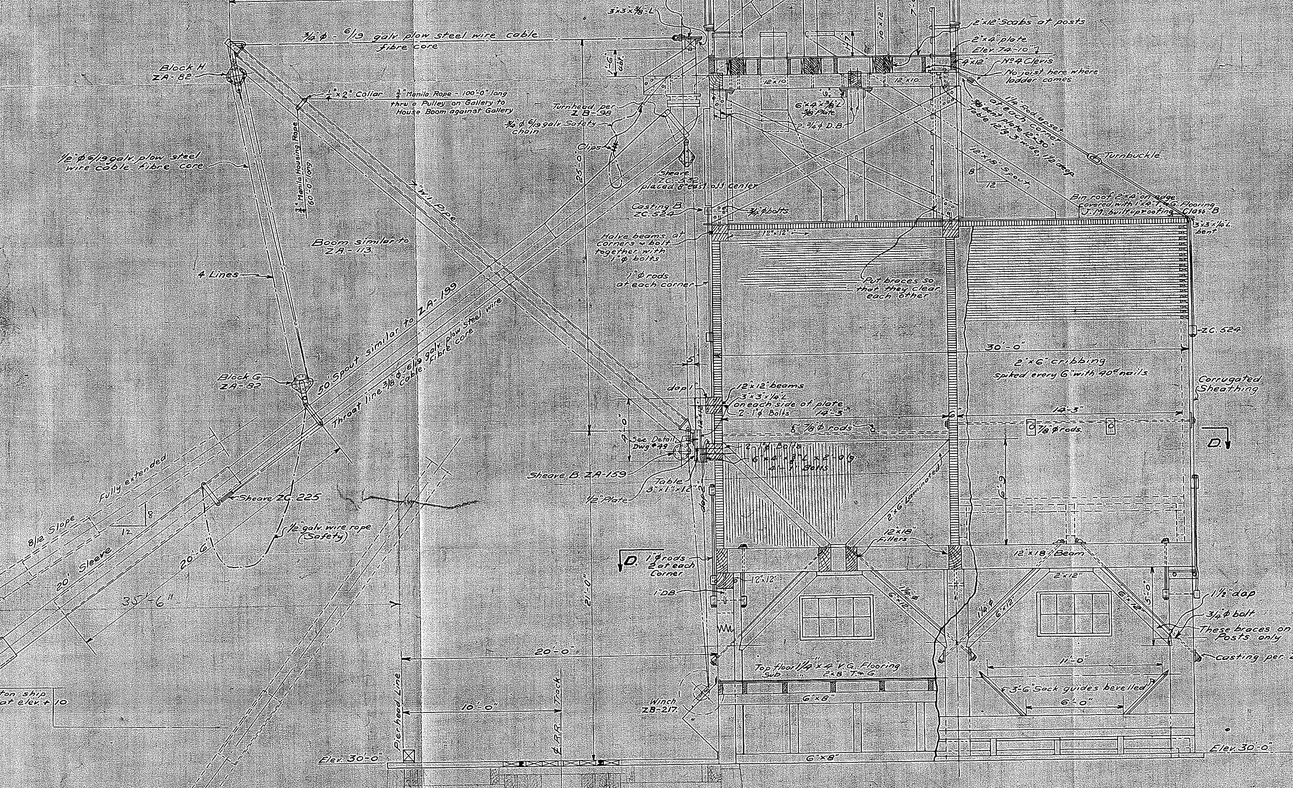












TIMBER DETAILS.
GALLERY & SACKING BINS
Scale 1" = 1'-0"
PORT OF KELSO
GRAIN ELEVATOR
LONGVIEW, WASH.
JOHN S. METCALF CO.
ENGINEERS
CHICAGO - VANCOUVER
MONTREAL
DR J.R.L. 6-14-27
TR S.C.W. 7-4-27
CK P.F.S. 8-8-27
AP
PRINTED OCT 2 1928 10-31-27
30083

B10

PLAN OF PILING & FOUNDATIONS

Scale - 1/8" = 1'-0"

PORT OF KELSO
GRAIN ELEVATOR
LONGVIEW, WASH.

JOHN S. METCALF CO.
ENGINEERS
CHICAGO - VANCOUVER
MONTREAL

DR. A.P. 7-30-27
TR. J.W.H. 8-3-27
CK. F.N.C. 8-8-27
AP. E.T.C. 8-8-27

PRINTED

9

30055

Fender Piles #1

#2 These brace piles at Bents 2-12 & 22

#3

#4

#5

#6

#7 These brace piles at Bents 7-17 & 27

Fender Pile

For details of Wharf Bents and Pile Cut-off See Dwg. No. 47

#8

#8A

#9

#10

#11

#12

#13 For Brace Pile & Fender Pile See Dwg No. 47

#14

#15

#16

#17 Fender Pile

#1 Fender Piles

4-6 2-6 4-6 2-6 2-6 4-6

4-0 2-9 2-6 3-0 5-6 5-9 3-0 6-3 6-6

6-6 13-0 3-0 13-0

TOWER C

2-9 2-6 3-0 2-6 4-0 3-9 2-6 3-5 3-5 3-5 3-0

4-0 8 Spaces @ 4-4 = 34-8

8 Spaces @ 12-6 = 100-0

WHARF

SACKING SHED

10-9 10-0 30-0 5-1

Pier Head Line | ℄ Track | Edge of Pier | Face of Cols. in Sacking Shed

2-9 2-7 2-6 2-6 4 Spaces @ 4-3 = 17-0 4-4 2-6 2-6

TOWER B

2-9 2-7 2-6 2-6 4-0 6-8 10-8 2-6 2-6

8 Spaces @ 15-0 = 120-0

4-6 2-6 4-6 2-6 2-6 4-6

#1 Fender Piles

6 Spaces @ 20-0 = 120-0

#11 #12 #13 #14 #15 #16

144-7 3/8

20-5 3/8

5-0

6-6 3/8

Gallery & Road-2

℄ Storage 1

10-0

Pile Cut-off El. 7-0

9 Spaces @ 2-3 = 21-9

9 Spaces @ 2-3 = 21-9

48-0

11-3 5-7 1/2 8-6

12 20 Spaces @ 2-7 1/2 = 52-6 20 Spaces @ 2-7 1/2 = 52-6 12

107-0

STORAGE PILE SLAB

W.H. Bldg Line

30-6

75-0

39-0

4-6

Pile Cutoff El. 7-0

Outside of Pit Wall 1

℄ Trackshed Pit 2

℄ Workhouse 1

℄ Trackshed Pit 1

14 Spaces @ 2-8 = 37-4

80-0

55-0

65-0

28-6

9-1

18-2

WORKHOUSE PILE SLAB

Bents 102 - 104 - 106 are in line with bent 108 but the connecting gallery is 12" too far west at Tower B
see WB-1229
see letter from Kelso Materials dated 17 Feb 1928
HRL 2

203-6

73 spaces @ 22-0 = 154-0

#101 #102 #103 #104 #105 #106 #107 #108

6-9 1/2 6-9 1/2 6-0 5-0 5-0 4-1 4-1

℄ Connecting Gallery & Jitney Roadway

See Dwg #51 for Details of Connecting Gallery Bents

175-1 3/8 from ℄ W.H.

This head house in connection

℄ Storage 1

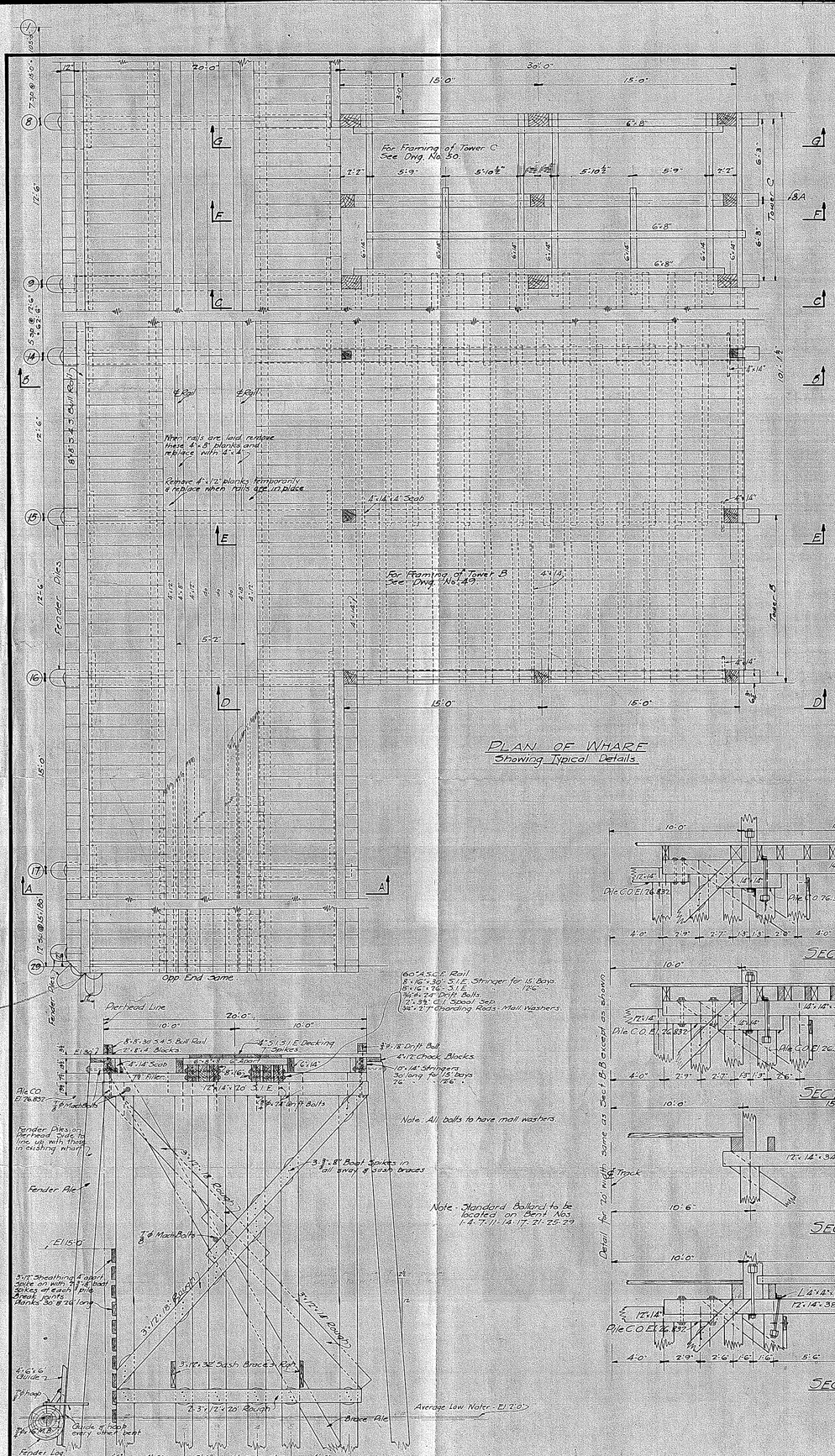
TOWER A

7-44

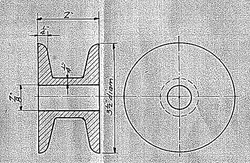
7-8 1/2

5-0

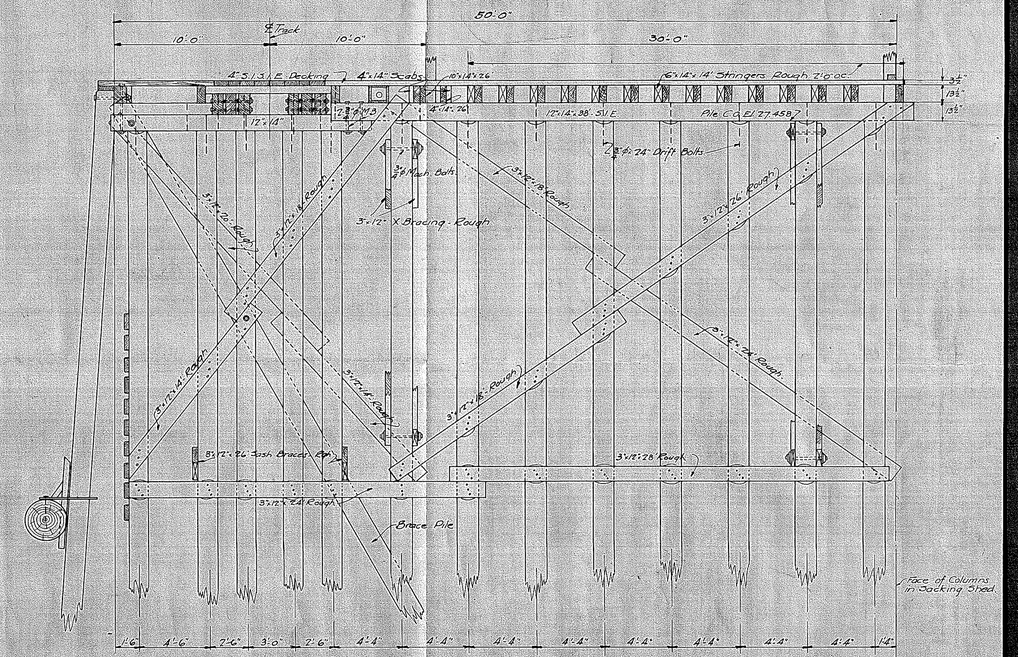
B11



PLAN OF WHARF
Showing Typical Details



C.I. SPOOL SEPARATOR



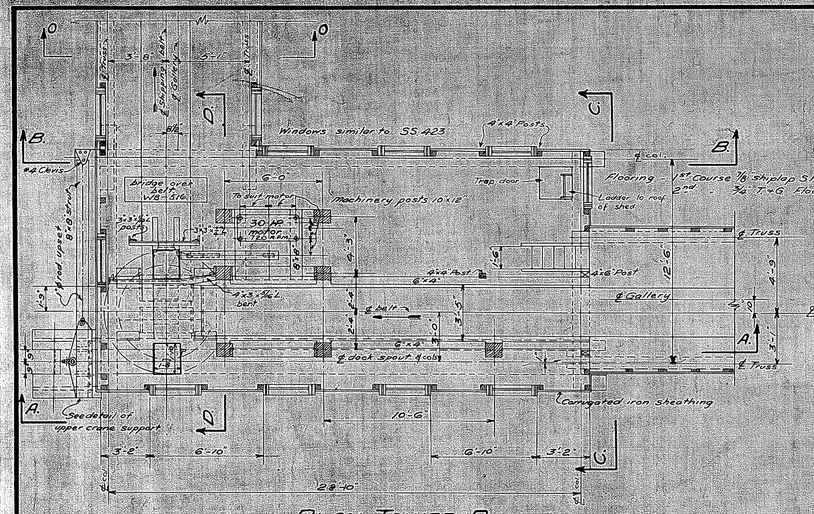
SECTION B-B
Bents 10 to 14 Inclusive

Fender Piles
Dpp End Same
Dpp End Same
Dpp End Same

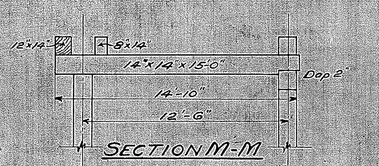
B12

FOR REVISED LAYOUT OF TOWER B. (DUE TO CONNECTING GALLERY BEING 12" TOO FAR WEST AT TOWER B) SEE DWG WB-1229

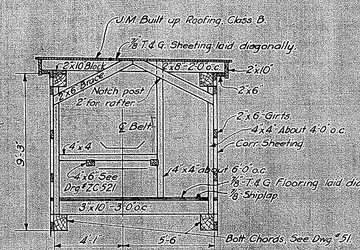
JRL 2/28-28



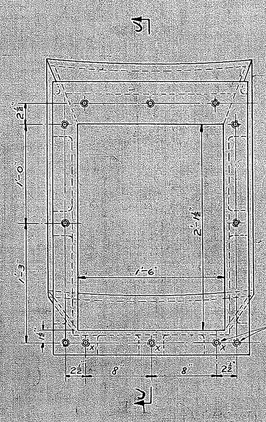
PLAN TOWER B.

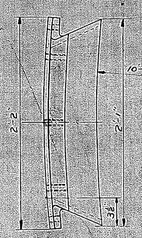


SECTION M-M

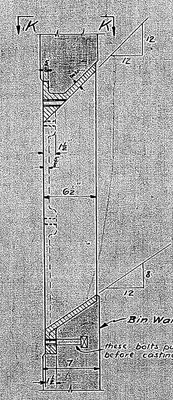


TYPICAL CROSS SECTION O-O



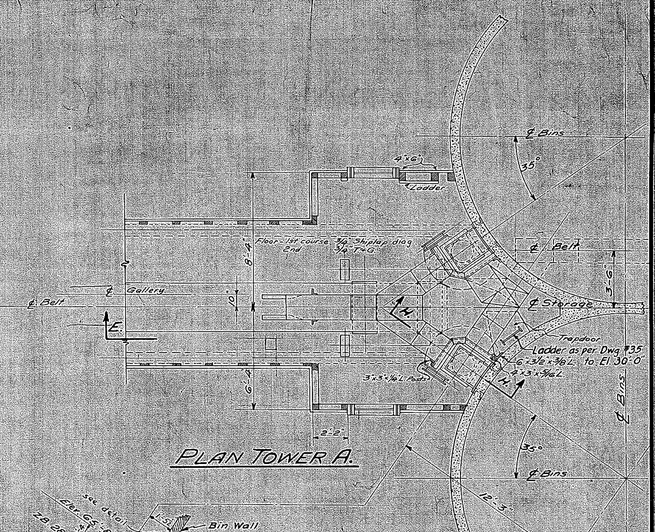


PLAN K-K

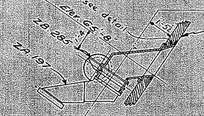


SECTION J-J

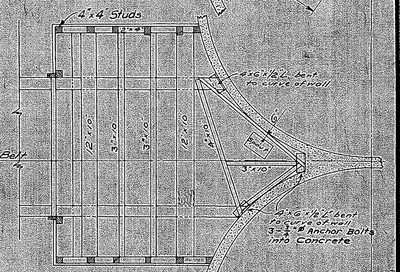
SPOUT HOLE CASTING REQ'D.
Scale 1/2" = 1'-0"



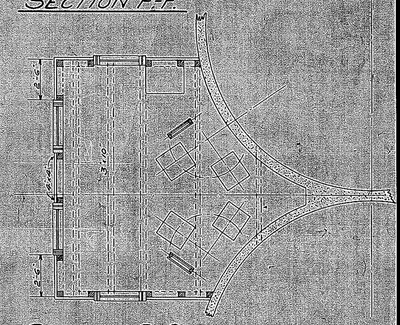
PLAN TOWER A.



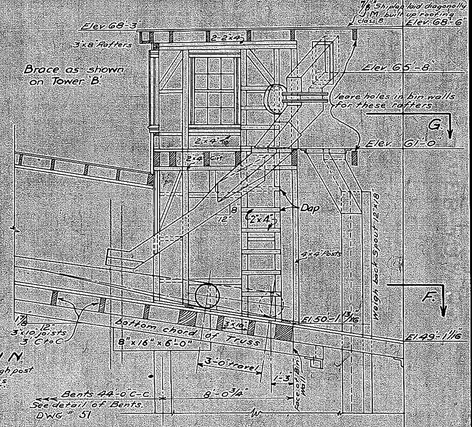
SECTION H-H.



SECTION F-F.

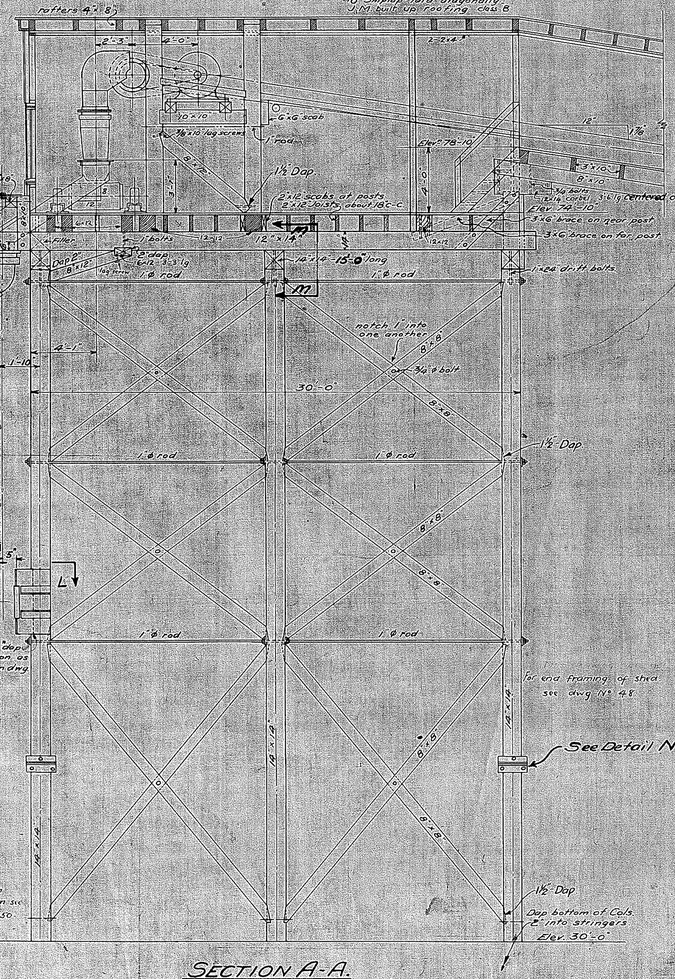


SECTION G-G.

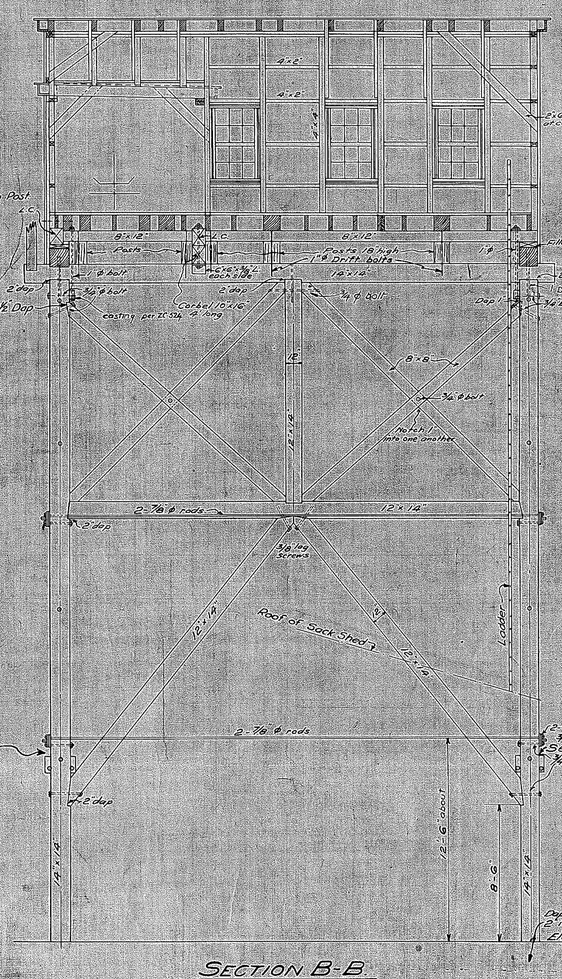


SECTION E-E.

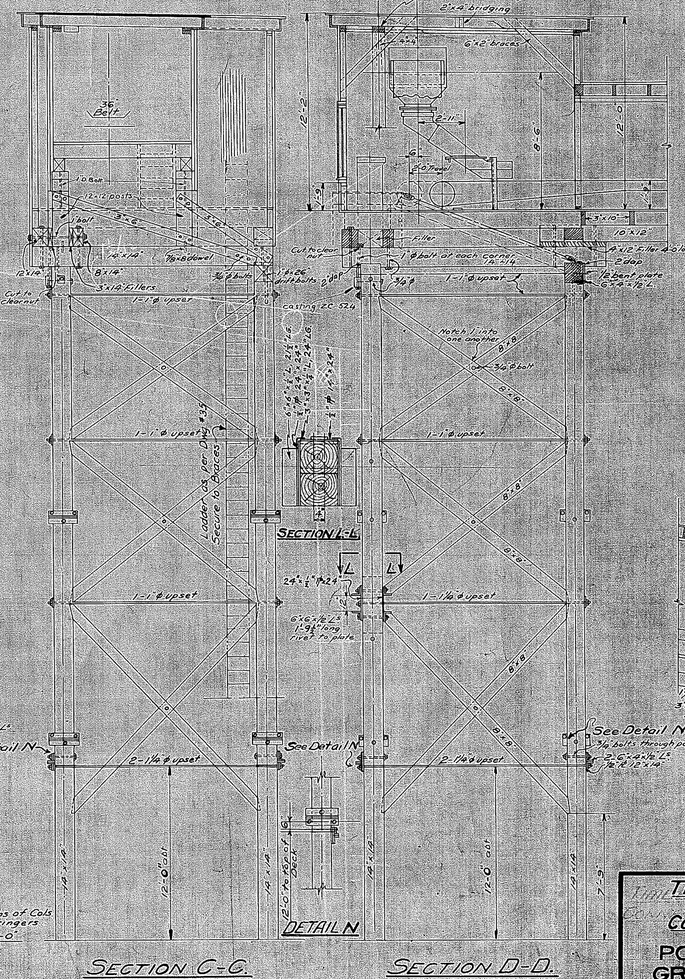
See WB-1229



SECTION A-A.



SECTION B-B



SECTION C-C.

SECTION D-D.

TIMBER DETAILS CONNECTING CONVEYOR GALLERY
Scale 1/4" = 1'-0"
PORT OF KELSO GRAIN ELEVATOR
LONGVIEW, WASH.

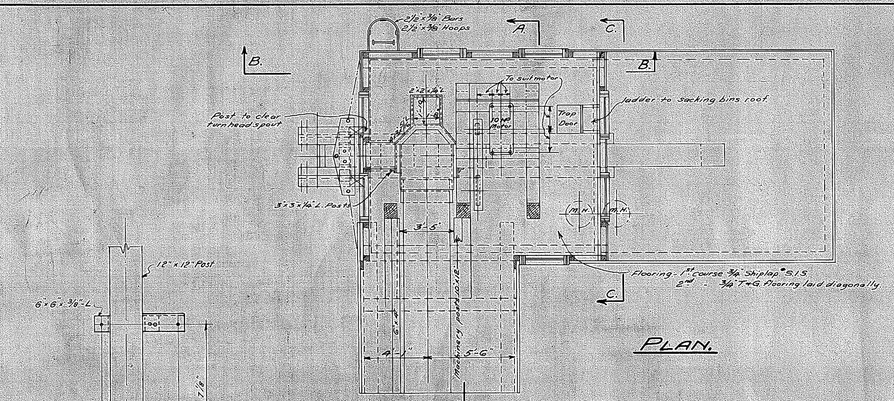
JOHN S. METCALF CO. ENGINEERS
CHICAGO VANCOUVER MONTREAL
DR. J.R.L. 5-5-27
TR. J.C.W. 6-8-27
CK. E.F.G. 8-8-27
AP.

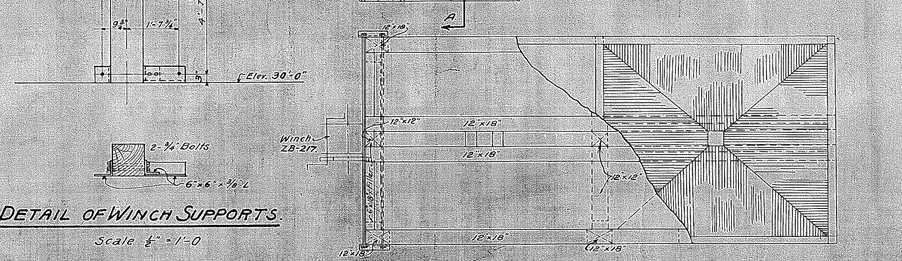
PRINTED MAR 1 7 1947
8-31-27
11-25-27

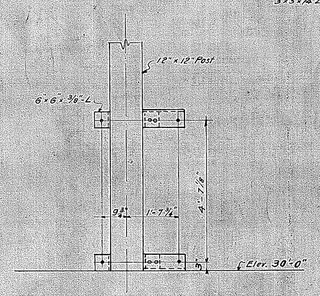
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49.

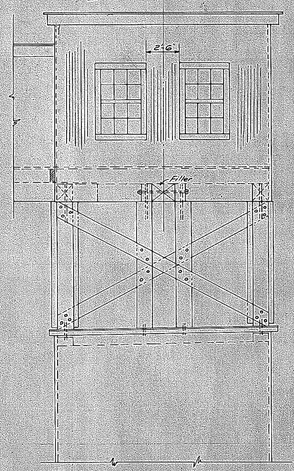
B13



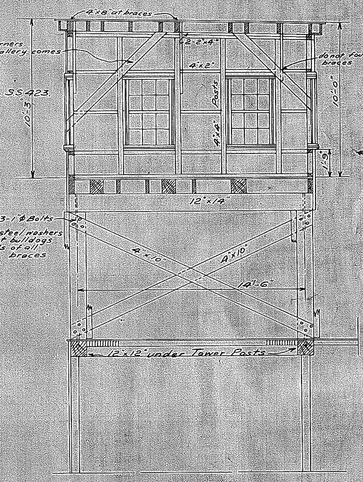




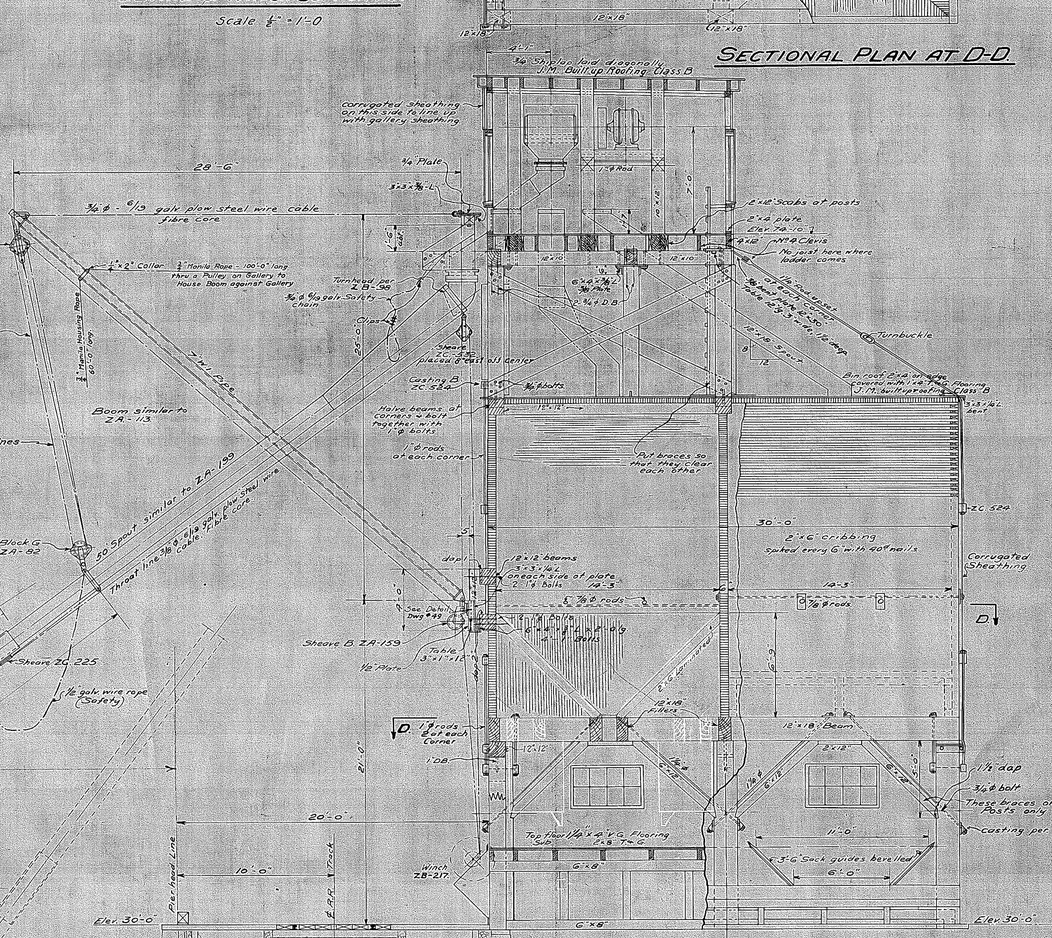
DETAIL OF WINCH SUPPORTS.
Scale ½" = 1'-0



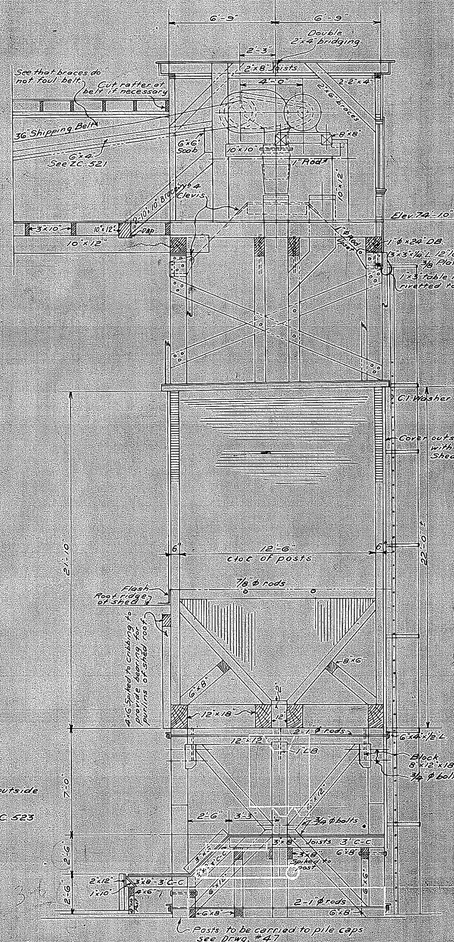
SECTION C-C.



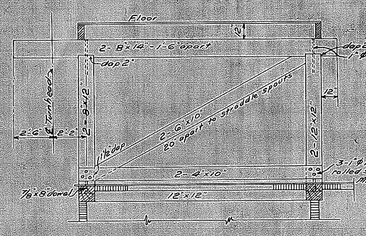
SECTION B-B.



CROSS SECTION AND ELEVATION.



SECTION AT A-A.



DOCK SPOUT TIMBERS.

T1 TIMBER DETAILS.
GALLERY & SACKING BINS
Scale ½" = 1'-0"
PORT OF KELSO
GRAIN ELEVATOR
LONGVIEW, WASH.

JOHN S. METCALF CO.
ENGINEERS
CHICAGO - VANCOUVER
MONTREAL

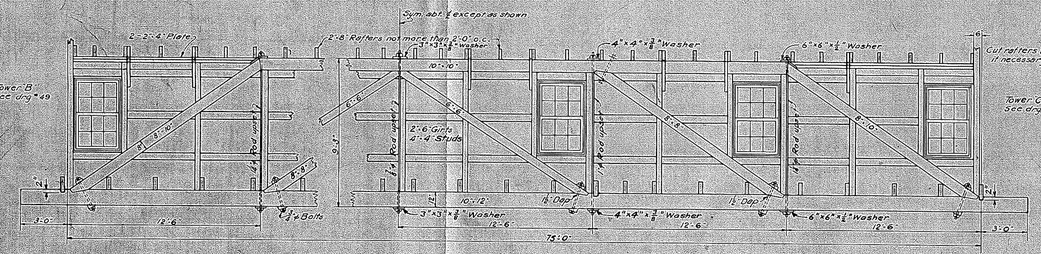
DR J.R.L. 6-4-27
TR J.C.W. 7-4-27
CK E.F.C. 8-8-27
AP E.F.C.

PRINTED 6 1945 10-31-27

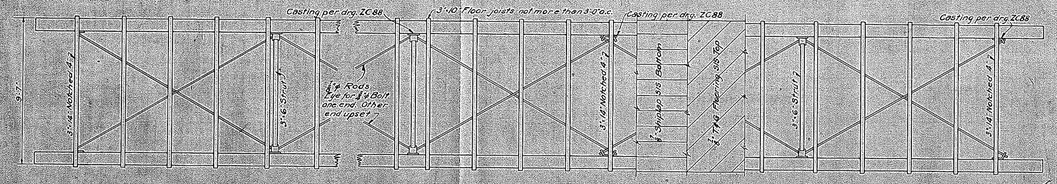
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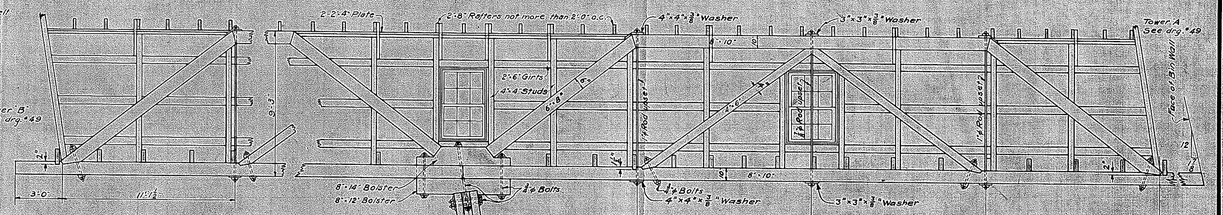
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B14

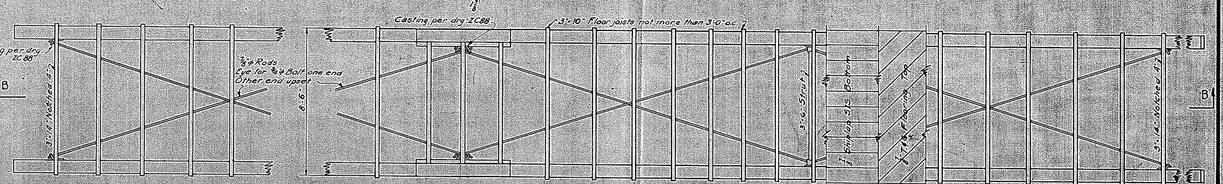


SECTION AA

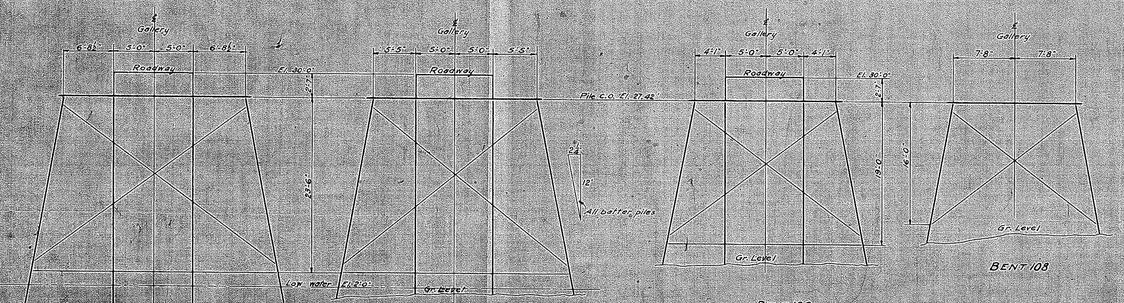




SECTION BB



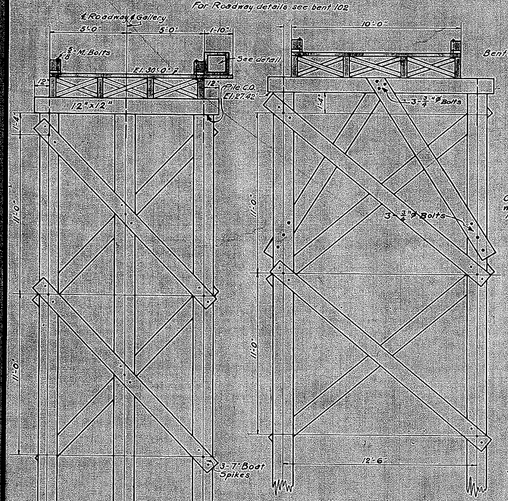
FLOOR PLAN
SHIPPING GALLERY

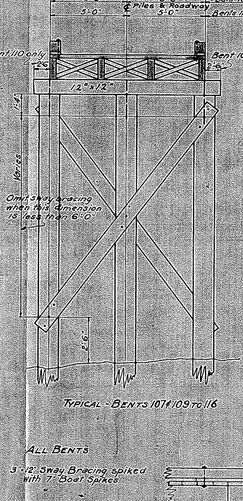


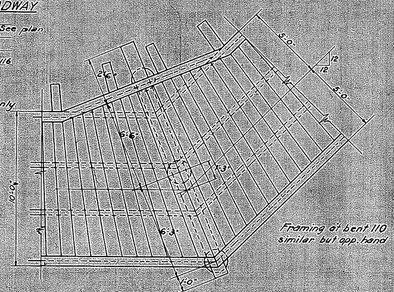
FOR ALL BENTS
Pile caps see details
3/4"x24" Dr. Bolts 1 Cast to Pile
3"x12" Sway Bracing, Spike on with 3 7" Boat Spikes to each pile

NOTE
See drg. No. 2 for location of bents. See drg. No. 3 for location of longit. bracing for bents 100 to 108

DIAGRAM OF BENTS FOR GALLERY FRAMES AND ROADWAY





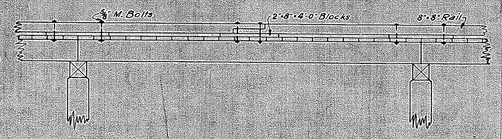


PLAN AT BENT 107



SECTION OF ROAD NOT ON PILE BENTS

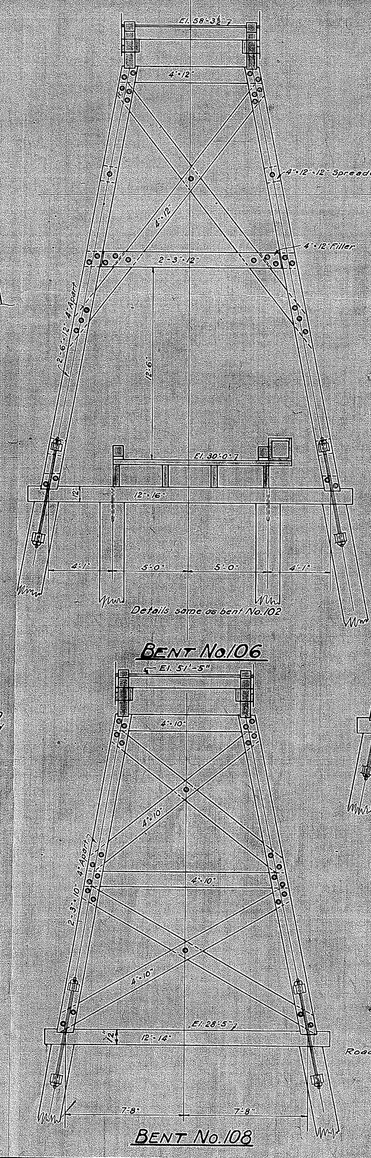
ALL BENTS
3"x12" Sway Bracing spiked with 7" Boat Spikes

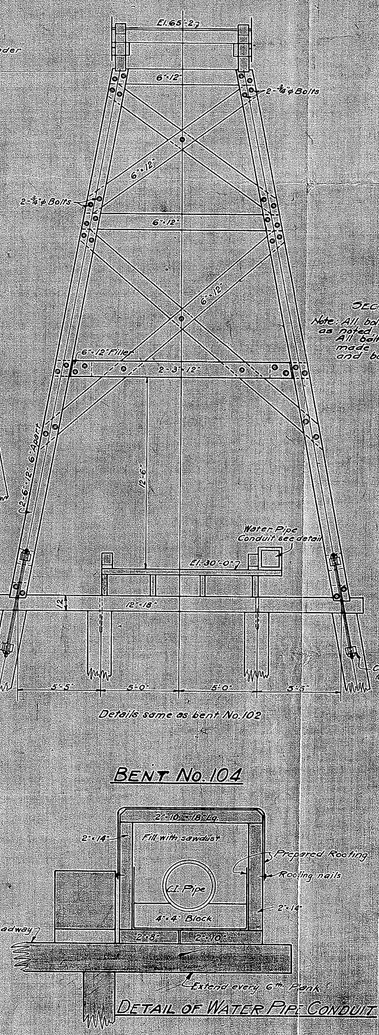


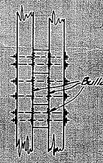
TYPICAL DETAILS OF PILE BENTS

SIDE VIEW OF ROADWAY

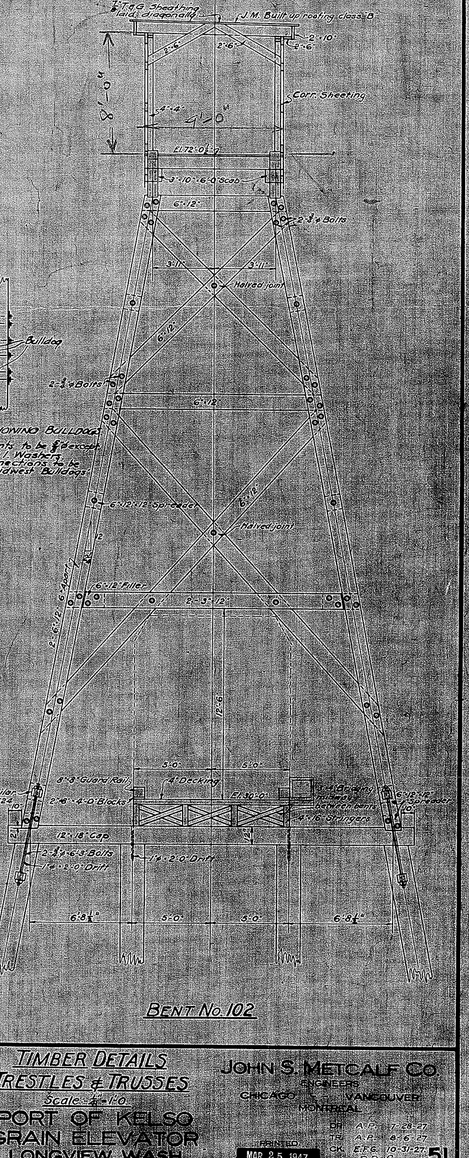
FLOOR PLAN
CONNECTING GALLERY







SECTION SHOWING BULLDOG
Note: All bolts in work to be 3/4" except as noted. All Washers 4"x4"x5/16". All Bolted Connections to be made with Midwest Bulldogs and Bolts



BENT No. 102

DETAIL OF WATER PIPE CONDUIT

TIMBER DETAILS
TRESTLES & TRUSSES
Scale 1/4"=1'-0"
PORT OF KELSO
GRAIN ELEVATOR
LONGVIEW, WASH.

JOHN S. METCALF CO.
ENGINEERS
CHICAGO VANCOUVER
MONTREAL

DR A.V.D. 7-28-37
CH A.V.D. 8-6-37
CK E.F.S. 10-31-37

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