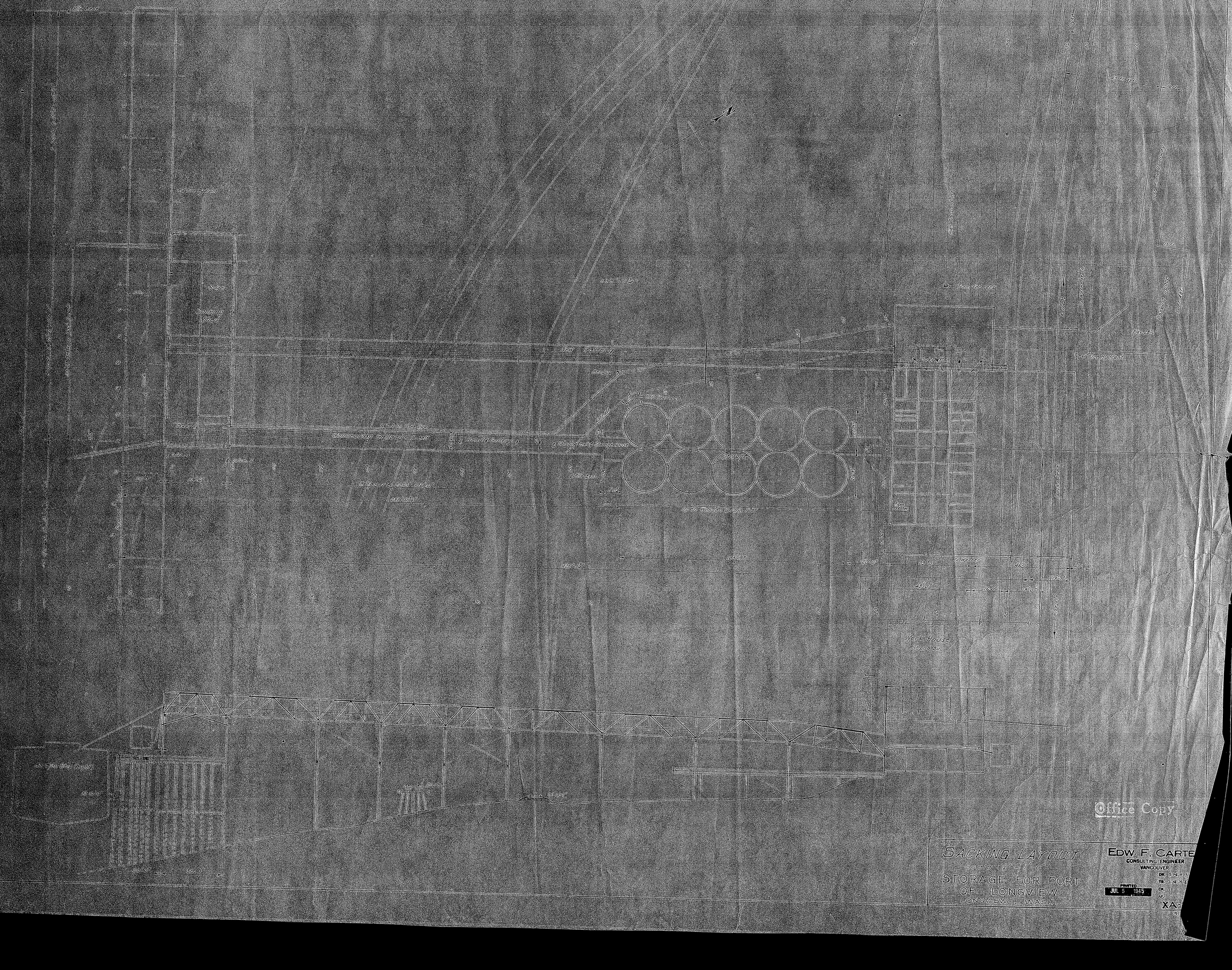
B16



SACKING LAYOUT

STORAGE FOR PORT OF LONGVIEW

LONGVIEW, WASH.

EDW. F. CARTE

CONSULTING ENGINEER

VANCOUVER

DR. S.N.H.

TR. S.N.H.

CK.

AP.

FILED

JUL 6 1945

XA-

BARCO PRODUCTS • NEW HOPE, MINNESOTA
REORDER BY PART NUMBER 6252

SECTION A-A

SECTION B-B

SECTION C-C

SECTION D-D

SECTION E-E

SECTION F-F

SECTION G-G

SECTION H-H

SECTION J-J

SECTION K-K

SECTION L-L

SECTION M-M

SACKING SHED LAYOUT

PORT OF LONGVIEW
LONGVIEW, WASH.

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER
WN

12

PILE & EXCAVATION PLAN

STORAGE FOR PORT
OF LONGVIEW
LONGVIEW, WASH.

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER

JUN 20 1941

A

S-1-43

EXCAVATION

Excavation for ... shall be taken up to ... as shown on the plans. ... shall be ... to the ... of the ... and ... as directed by the ... Engineer. ... shall be ... to the ... of the ... and ... as directed by the ... Engineer. ... shall be ... to the ... of the ... and ... as directed by the ... Engineer.

SITE PLAN

Scale 1" = 100'

Columbia River

Pile Driving Plant

Pile Driving Plant

Pile Driving Plant

DRAWING NUMBER
SAFCO PRODUCTS • NEW HOPE, MINNESOTA
REORDER BY PART NUMBER 6552

B17A

SITE PLAN
SCALE 1" = 50'-0"

COLUMBIA RIVER

CENTER LINE DOLPHIN

SUGGESTED ROUTE APP. 30'-0"

150'-0"

120'-0"

50'-0"

Finish Excavation Line

Finish Excavation Line

Finish Excavation Line

Pile sketched for Construction from Engineer 30000 LBS pile

PILES
Avg. tip of Pile at Elev. -90
Cut off all piles at Elev. 8.5'
Level Fill around pier at Elev. 8.5'

EXCAVATION

Excavation required for pile to be driven back to solid bottom of level 1'-0" outside marine framing and to such other greater approximate depths and grades as may be directed by the Engineer. Dredging of pile holes to be done outside finish excavation lines. Excavated material is to be used later for backfill. The Contractor is to dispose of surplus material, as he may elect, by depositing it on land or about 3/4 of a mile from pier as directed by Manager of Port of Longview.

PILE & EXCAVATION PLAN

Scale as Shown

STORAGE FOR PORT OF LONGVIEW
LONGVIEW, WASH.

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER

DR. E.F.C. TR. S.N.B. CK. F.

PRINTED

No. 31043

A

B18

EXISTING WORKHOUSE

B
Alternate Bid

35' Conveyor

C.L. Elev. 22.0'

35' Conveyor

C.L. Elev. 25.73'

C. to C. 60'

Elev. 10.75'

C.L. Elev. 109.75'

C.L. Elev. 25.00'

Elev. 10.75'

Smith House

Elev. 3.00

Foundation

Elev. 10.75'

NEW BINS

Alternate Bid
B

(PLAN SHOWS BASEMENT BELTS)

97'-6"

183'-10"

30'-0"

55'-0"

Track Shed

Road Shed

NEW STORAGE

Columbia River

Wharf

Pier Head Line

SITE PLAN Scale: 1"=100'

CAPACITY

14	Bins	@ 41,000 -	574,000	Bus.
6	Bins	@ 10,000 -	60,000	" -
		TOTAL	634,000	"

GENERAL LAYOUT

Scale: 1"=40'

STORAGE FOR PORT OF LONGVIEW
LONGVIEW, WASH.

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER

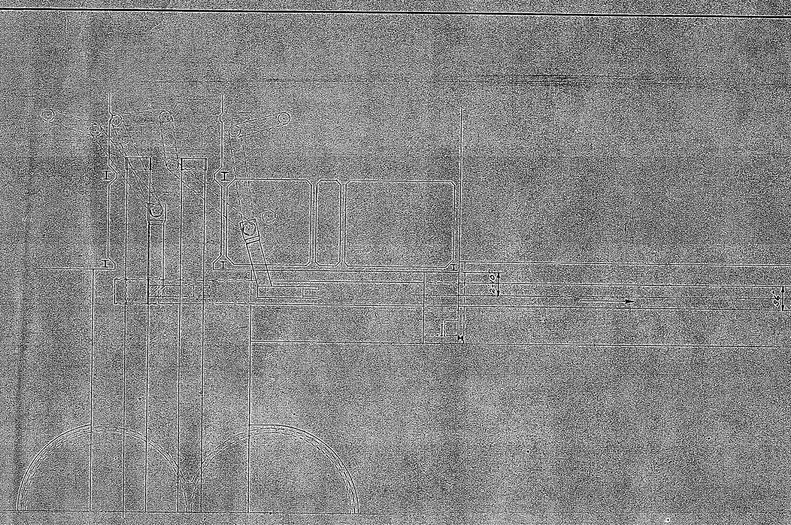
DR. S.N.H. - 4.5
TR. S.I.G. 3.9.45
CK.
AP.

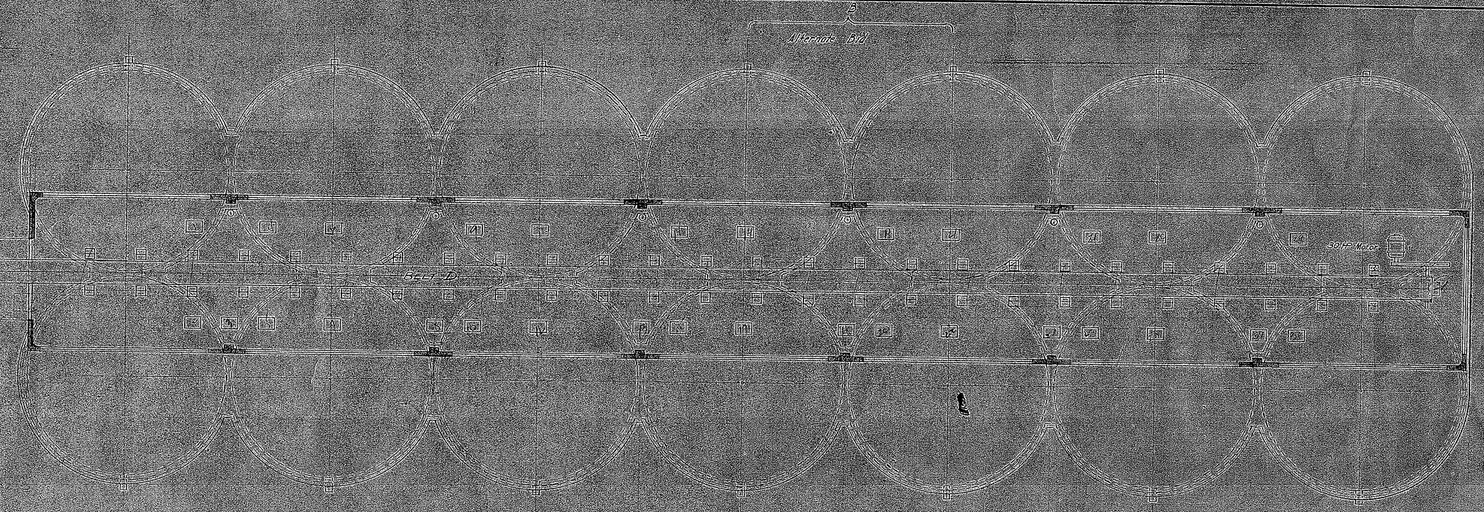
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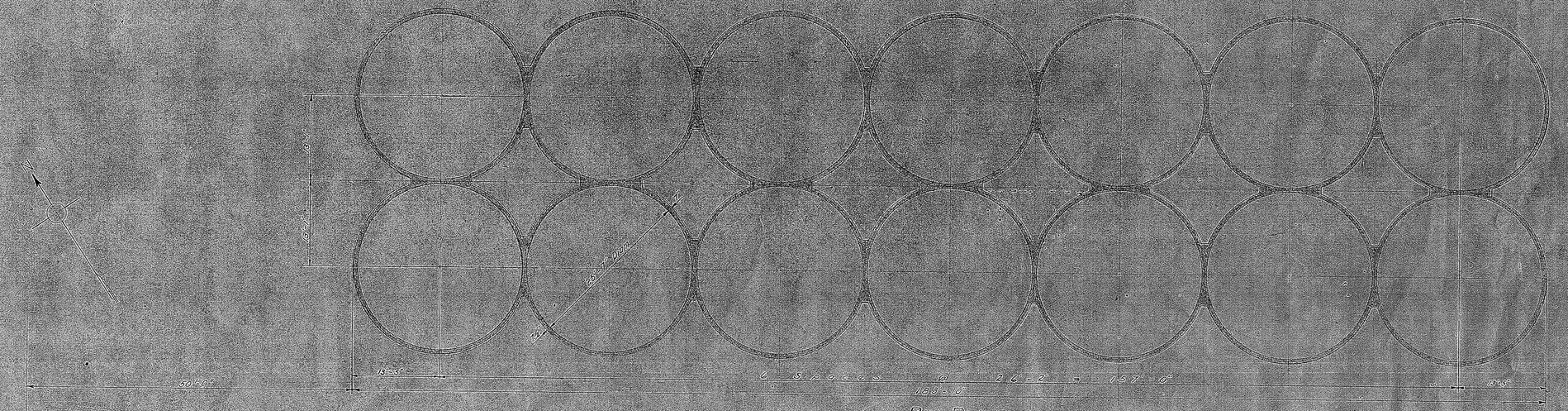
1048

B19





CUPOLA PLAN


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B21

PLAN

SECTION A-A

SECTION B-B

SECTION C-C

SECTION D-D

WATERTIGHT JOINT FOR EXTERIOR WALLS
Scale: 1½"=1'0"

Notes
Concrete in piers & walls 2000#
Concrete in foundation slab 2500#
All reinforcing steel to be deformed bars
Such bars to be kept in one set lengths.
All bars to be secured where at intersections
Bars to be bent on a radius of 12 bar diameters
Basement windows - lights to wide x 18" high,
nominal sash openings, ecc wide x 3-1/8" high
except 3 windows at ends which are 5-2⅜" x 5-1⅛"

LEGEND
A - 3/8" @ E - 8"
B - 1/2" @ F - 12"
C - 5/8" @ G - 12"
D - 3/4" @ H - 18"
J - 1/4" @

Figures following Bar Marks indicate Length of Bars and Suffix 'X' indicates Bent Bars
Thus: D30.5 X - 3/4" @ 30'-8" Bent

STEEL SCHEDULE

Mark	Size	G	A	B	C	D	E	G	F	H
D 30.5 X	3/4" @	5'-6"								
D 30.0 X	3/4" @	5'-3½"	4'	5'	4'	3'-9½"		1'-6"	1'-6"	
J 13.7 X	1/4" @	5'-3½"	4'	3'-4"	4'	3'-3"		1'-4"	1'-4"	
J 13.7 X	1/4" @	5'-3½"	3'-7"	3'-4"	2'-6½"	3'-3"		1'-4"	1'-4"	
D 16.0 X	3/4" @	5'-0"	3'-7"	3'-4"	2'-6½"	3'-3"		1'-4"	1'-4"	
D 16.0 X	3/4" @	5'-0"	4'-5"	4'-3"	2'-6½"	3'-3"		1'-4"	1'-4"	
D 16.0 X	3/4" @	5'-0"	4'-5"	4'-3"	3'-9½"	2'-10"		1'-4"	1'-4"	
D 16.0 X	3/4" @	5'-0"	5'-3½"	4'-3"	3'-9½"	2'-10"		1'-4"	1'-4"	

FOUNDATION DETAILS
Scale as shown

STORAGE FOR PORT OF LONGVIEW
LONGVIEW, WASH.

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER

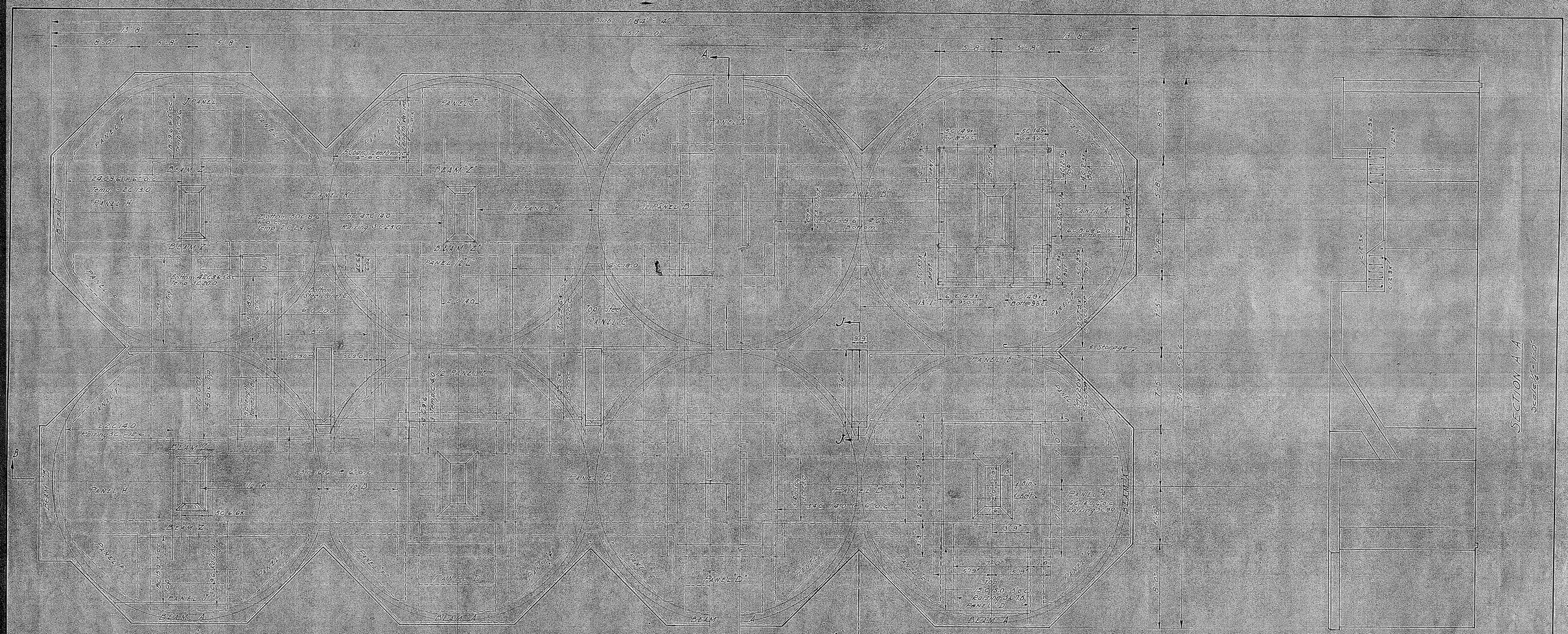
DR. E.S. 4/5/45
TR.
CK.
AP. S/21/45

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B22



BEAM Z

12" wide 30" deep
Top steel 4 C 12.9 x
Bottom 4 C 10.9 x
3/4" rnds. 18 C 6.2 x @ 13'-0" c

BEAM B

12" wide 60" deep
8 Bars top & bottom hook both ends
Bars 12 C 12.6 x top & bot

BEAM A

12" wide 15" deep
2 Bars top & bottom hook both ends
Bars 2 C 11.0 x top & bot

Bar Mk. C 13.9 x

Where bars are shown hooked
allow 7" for hook
C 5.9 thru C 10.0 x 12.5" for 180° hooked
All bars are deformed bar steel

BENT BAR SCHEDULE

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER

DR. S.N.R. 5-7-40
TR. S.T.G. 5-11-45
CK.
AP.

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5

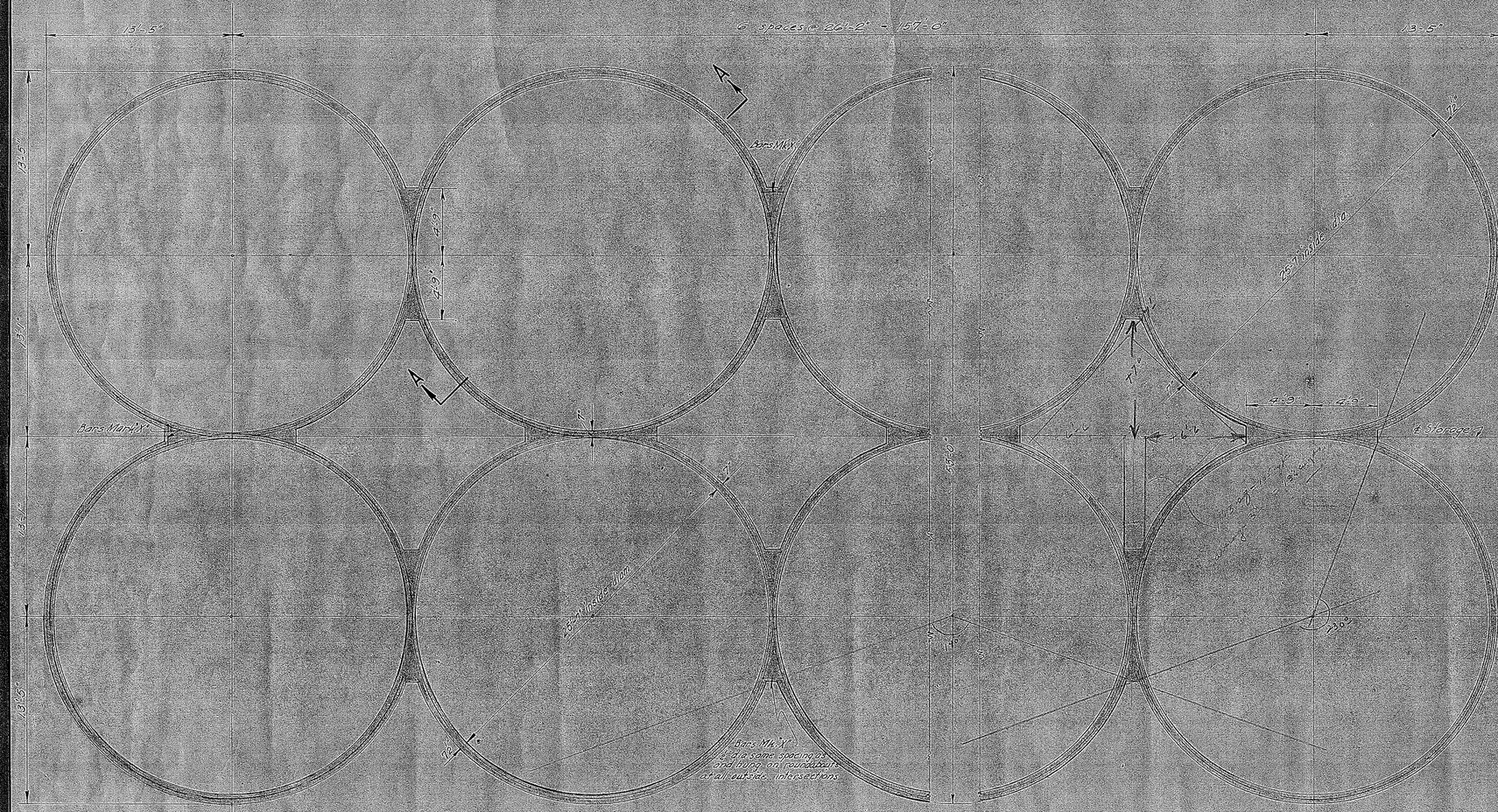
310-51

SLAB UNDER BINS

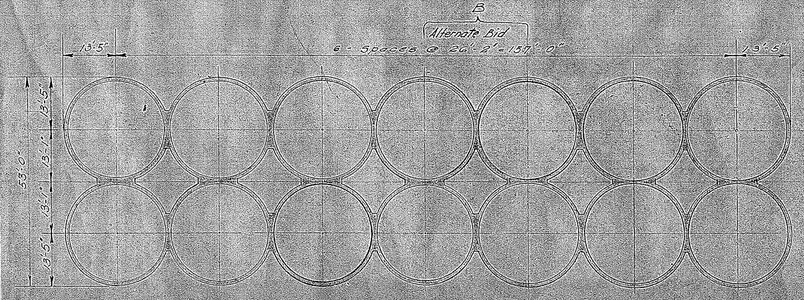
Scale 1/4" = 1'-0"

STORAGE FOR PORT OF LONGVIEW
LONGVIEW, WASH.

B23



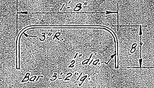
PLAN OF BINS
Scale 1/8" = 1'-0"



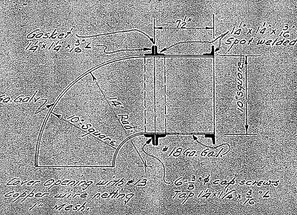
PLAN OF BINS
14 - BINS
Scale 1/16" = 1'-0"



CROSS SECTION THROUGH ℄
INTERSPACE BINS
Scale 1/4" = 1'-0"



BARS MARK X



10" SQUARE VENT THROUGH WALL
FOR MOVING FORMS
Scale 1/2" = 1'-0"

NOTES

Roundabouts to be placed in horizontal rings. Each course to consist of 4 bars 23'-6" lg. making each lap about 3'-0". In lapping roundabouts place the ends on top of one another, not side by side and break joints so that in no case will joints of adjoining courses come together.

Roundabouts must be placed outside of jack-rods and wired to them so that there will be no danger of roundabouts getting out of place during pouring of concrete.

Jack rods to be not less than 1" diameter. There are to be at least 8 jack-rods per bin. Number and location of jack-rods to be approved by the Engineer before pouring is commenced.

In outside walls 3 - 5/8" diameter rods to be equally spaced between each pair of jack-rods. These 3/8" rods to be kept 1" apart.

Bin Wall concrete is 2000 # conc.

25'-7" inside dia	
Inside walls 7" thick	Outside walls 12" thick
5 @ 10" courses = 15 Spaces @ 11" = 23'-9"	
5 @ 10" courses @ 11" = 23'-9"	

BIN WALLS
Scale as shown.

STORAGE FOR PORT OF LONGVIEW
LONGVIEW, WASH.

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER

DR. S.M.H. 1-30-45
TR. S.M.H. 2-15-45
CH.
AP.

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3C903

B24

Alternate bars

PLAN OF CUPOLA ROOF
Scale - 1/8" = 1'-0"

6 spaces @ 26'-8" = 157'-6"
183'-10" out to out Cupola walls

CUPOLA ROOF PLAN
Scale - 3/4" = 1'-0"

SECTION - A-A OF CUPOLA SLAB
Scale - 3/4" = 1'-0"

TYPICAL WALL LONGITUDINAL STEEL

TYPICAL WALL VERTICAL STEEL

TYPICAL ELEVATION OF CUPOLA WALLS
Scale - 1/2" = 1'-0"

SECTION - D-D
Scale - 1/2" = 1'-0"

NOTES

SECTION OF NORTH WALL
Scale - 1/2" = 1'-0"

TYPICAL SECTION OF ROOF BEAMS
Scale - 1" = 1'-0"

TYPICAL CROSS SECTION OF CUPOLA
Scale - 1" = 1'-0"

SECTION SHOWING PIERS AT HEAD OF BELT

ROOF DRIP EDGE
Scale - 1" = 1'-0"

FLASHING ROOF TO WALL
Scale - 1" = 1'-0"

SECT. - C-C
Scale - 1" = 1'-0"

DETAIL OF WINDOWS FOR CUPOLA WALLS
Scale - 3" = 1'-0"

DETAILS OF CUPOLA COLUMNS

PLAN

ELEVATION - Y-Y

ELEVATION Z-Z

DETAIL OF PIERS FOR BELT ROLLS & TRIPPER RAILS

PLAN

GRATING

SECTION - C-C
Scale 3" = 1'-0"

SECTION - SPOUT GRATING
Scale 1" = 1'-0"

NOT USED ON MANHOLES

CUPOLA DETAILS
Scale as shown

STORAGE FOR PORT OF LONGVIEW
LONGVIEW, WASH.

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER

DR. S. N. R. 2-22-45
TR. S. N. R. E. 28-45
CK.
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B25

PLAN OF GALLERY

TYPICAL SECTION D-D

DETAIL OF BEARING AT C

ELEVATION

PLAN E-E

SECTION C-C

ELEVATION X-X
"Looking Toward New Storage"

SECTION B-B

SECTION E-E

SECTION A-A

SECTION A-A

SECTION B-B

PLAN OF BRACING TRUSS

DETAIL OF BEARING AT D

NOTES
All Elevations & Dimensions relating to Existing Work to be Checked & Verified by Contractor before Fabrication.
All Concrete Piers to be 24 in. sq. U.N.O.
All connected Bearing to be #22 pa. S.S.

CONNECTING GALLERY EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER
Scale 1/4"=1'-0" & as noted
STORAGE FOR PORT OF LONGVIEW
LONGVIEW, WASH.
PRINTED APR 18 1945
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B26

INTERBIN SPOUT FLANGES

LOADERS

6"x8" HANDHOLES WITH SLIDING COVERS

TYPICAL SPOUT SECTION BELOW VALVE

SPOUT SECTION ABOVE VALVE

DETAIL OF BOTTOM MANHOLE

PLAN

PLAN

PLAN

SECTION A-A

SECTION B-B

SECTION D-D

SECTION E-E

NOTES

BASEMENT SPOUTING

Scale 1/4"=1'-0"

STORAGE FOR PORT OF LONGVIEW

LONGVIEW, WASH.

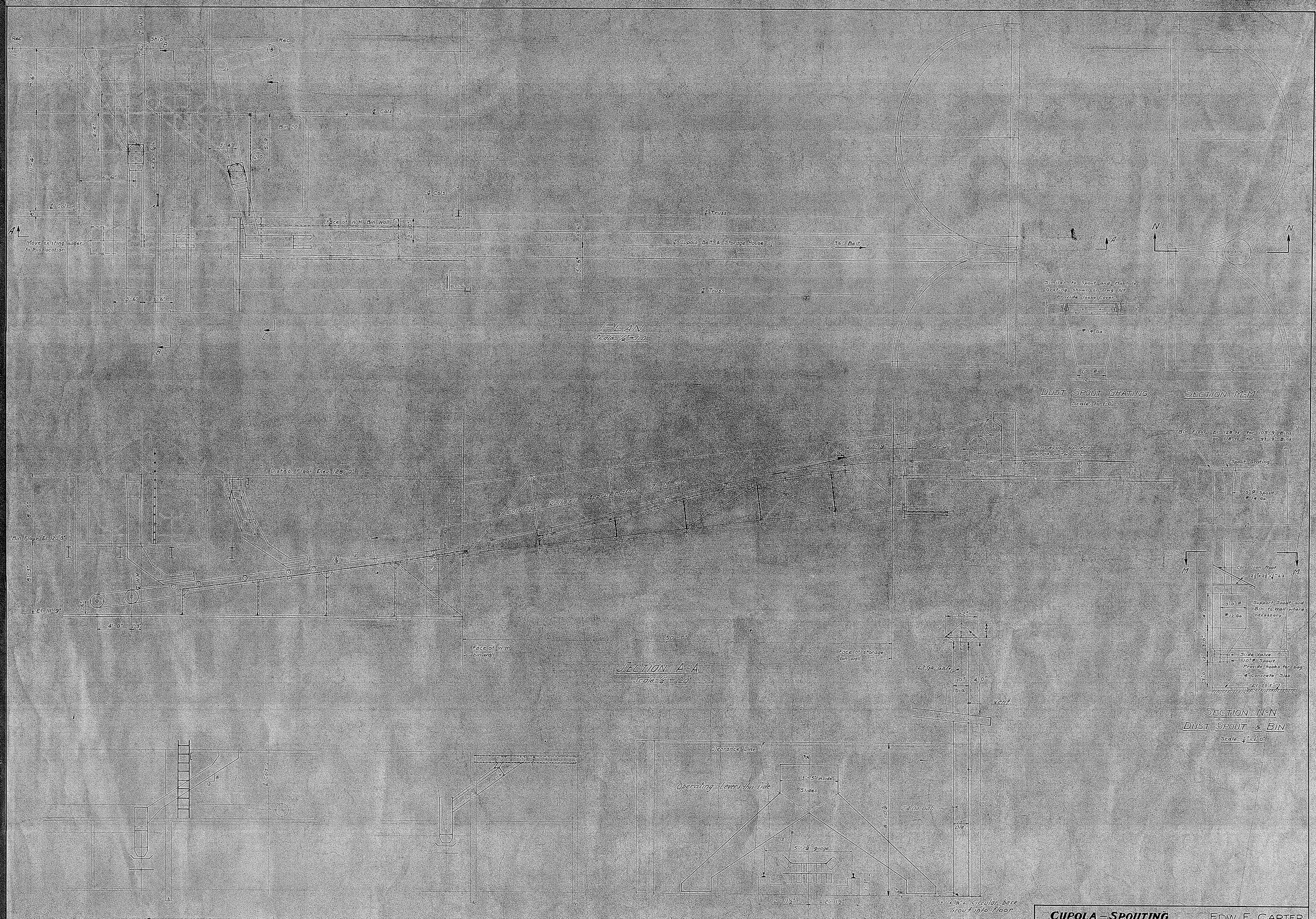
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VANCOUVER

PRINTED APR 13 1945

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31052

B27



CUPOLA – SPOUTING

Scale as shown

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LONGVIEW, WASH.

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER

DR. U.H.R. 12-40
TR. U.H.R. 12-40
CK. A.E.N. 4-7-45

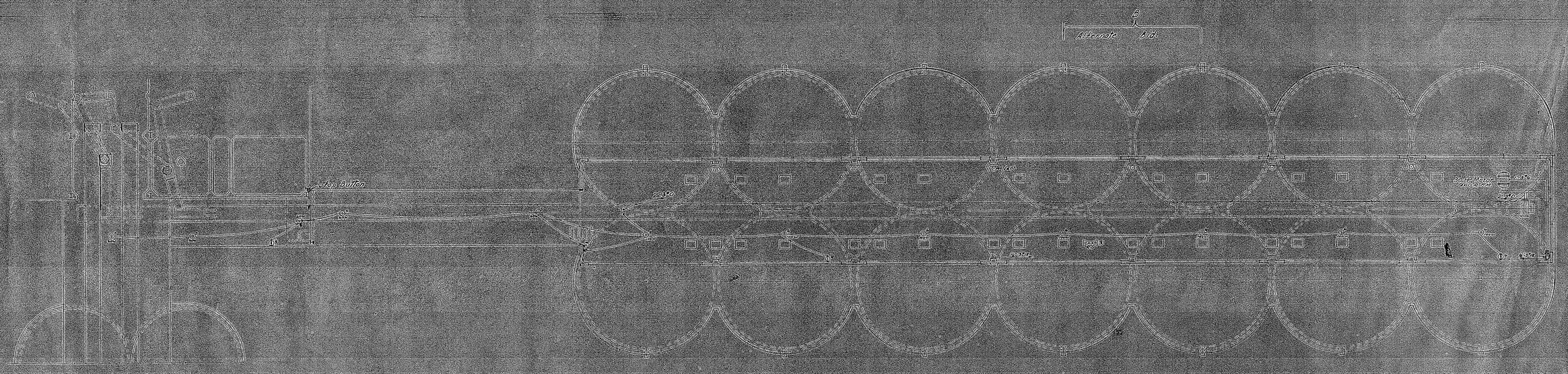
PRINTED APR 13 1945

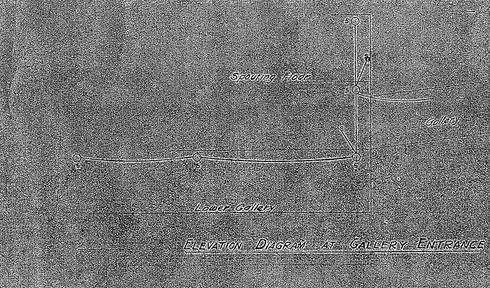
AP

10

3956

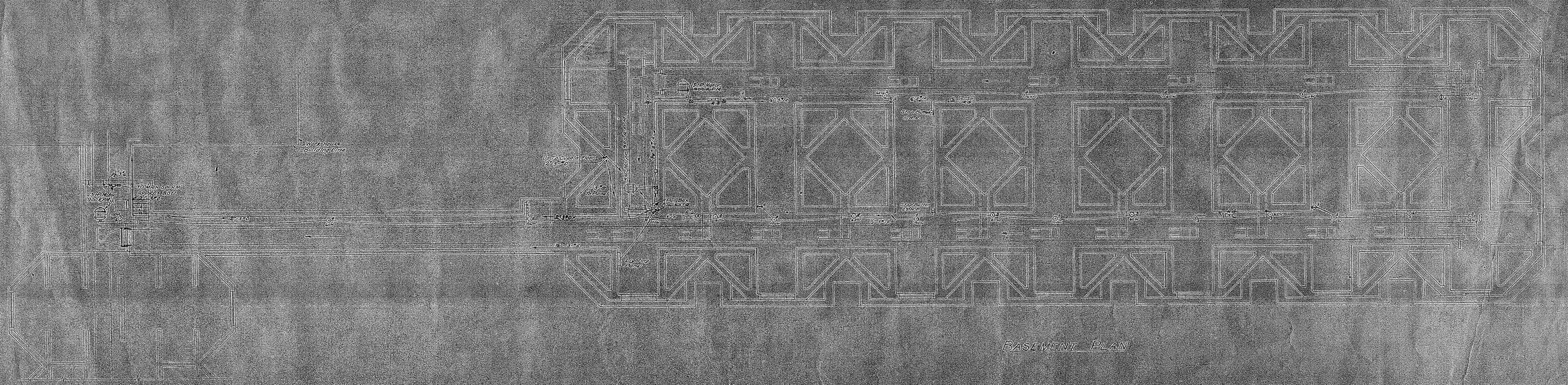
B28





Symbols

- Safety Switch (Accessible)
- Starter with Control Button
- Stop Button
- Connections Plug Outlet
- Signal Bell
- Push Button Signal Station
- R & G — Red and Green Signal Lights



Electrical Layout
Scale 1/8" - 0"

STORAGE FOR PORT OF LONGVIEW
LONGVIEW, WASH.

EDW. F. CARTER
CONSULTING ENGINEER
VANCOUVER
DR.
TR.
CK.
AP.

APR 13 19

H

310.54

C073564

DRAWING NUMBER B29

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REDRAWN BY NUMBER ITSELF

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
SCANNED BY NUMBER ITSELF

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REDRAWN BY NUMBER ITSELF

ABT. 13 FT. ABT. 13 FT.

59'-8" END TO END OF RAILS

55'-6" LG. MAX CAR (OVER COUPLERS)

39'-6" LG. MIN. CAR " "

40° END TILT

40° END TILT

DEFLECTOR MOTOR

END TILT 40°

END TILT 40°

AIR OPERATED GRAIN DOOR OPENER

5'-3"

2'-9"

AIR VALVES FOR DOOR OPENER AND HOPPER GATE CONTROL

POWER OPERATED DEFLECTOR

OPERATOR'S CONTROL SWITCHES

END TILT LEVEL INDICATOR KA330

30'-0" RAD.

OPERATOR'S PLATFORM, HAND RAIL & STAIRS FURN. BY PURCHASER

END CLAMP

END CLAMP

END CLAMP PIT

1½" GAP

℄ OF ROTATION

40"

BASE OF RAIL

5'-6"

½ GAP

END CLAMP PIT

END CLAMP MOTOR

END CLAMP SCREW

END LOCK

END LOCK

END CLAMP SCREW

END POST

SIDE TILT MOTOR

END POST

15'-1½" TO BASE OF RAIL

RECEIVING HOPPER

SIDE TILT RACK

17'-4" TO BASE OF RAIL

2'-8"

20'-0" MINIMUM DEPTH OF PIT

℄ END TILT MOTOR

2'-6"

℄ DRUM SHAFT

7'-3½"

7'-3½"

BELT CONVEYOR FURN. BY PURCHASER

60'-0" INSIDE OF PIT

℄ OF UNLOADER

ELEVATION B-B

END VIEW A-A - C073565

NOTE:
BELT CONVEYOR ARRANGEMENT SHOWN IS TYPICAL, AND MAY BE MODIFIED TO SUIT LOCAL REQUIREMENTS. WITH STANDARD HOPPER SHOWN, BELT CAN BE INSTALLED TO RUN IN OPPOSITE DIRECTION PARALLEL TO TRACK IF DESIRED. SPECIAL HOPPER CAN BE FURNISHED TO DISCHARGE TO CONVEYOR AT RIGHT ANGLES TO TRACK OR DIRECTLY TO ELEVATOR LEG. SEE BILL OF MATERIAL FOR DWG OF HOPPER FURNISHED ON CONTRACT.

D.B. Calor Spec 688

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LINK-BELT COMPANY 529-45

DRAWN WEE
TRACED 5-2-46 CHECKED
WEE

LINK-BELT COMPANY
CHICAGO PLANT
DATE NOV 2 1951
ISSUED TO Contract
THIS PRINT VALID ONLY FOR PURPOSE INDICATED BELOW
NOT ISSUED
REPLACEMENT
DUPLICATE
REVISION ADDED
GROUP ADDED
PIECE ADDED

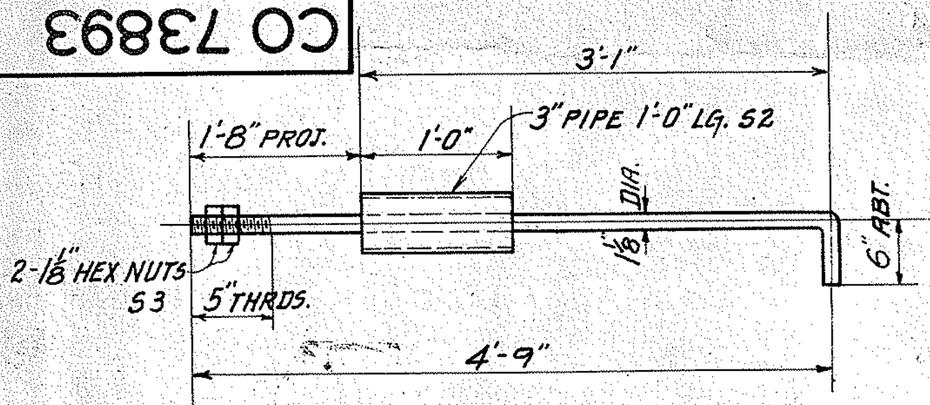
ORDER	INDEX DWG.	ORDER	INDEX DWG.
K3557	K3557-Y1	K2754	C068216
K3577	K3577-Y1	K2802	C068216
K3589	K3589-Y1	K2895	C072693
K3786	K3158-Y3	K2950	K2950-Y1
		K2982	K2982-Y1
		K2992	K2992-Y1
		K3009	K3009-Y1
		K3048	K3048-Y1
		K3190	K3170-Z1
		K3282	K3282-Y1
		K3802	

LINK-BELT GRAIN CAR UNLOADER - 60FT LG.
GENERAL ARRANGEMENT - ELEVATION

SCALE 3/8"-1'-0"

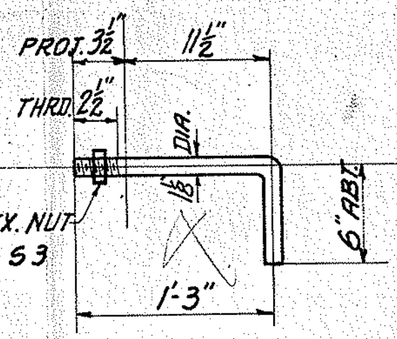
C073564

CO 73893



ROD 1⅛" H.R.S. x 5'-3" LG. S1; 16 REQ'D.

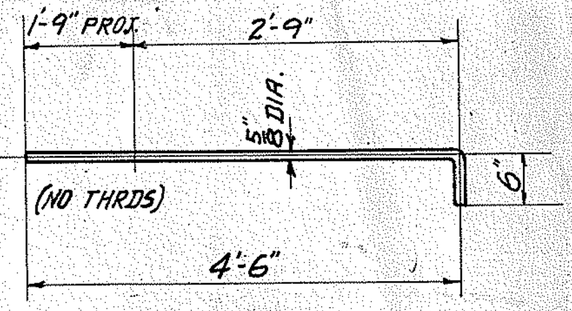
(END TILT ROLLERS)



ROD 1⅛" H.R.S. x 1'-9" LG. S13

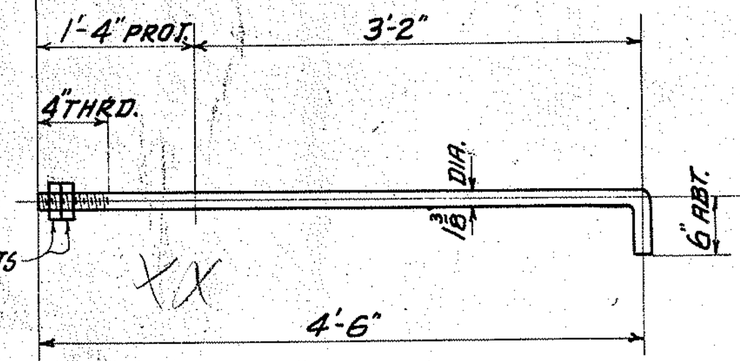
10 REQ'D.

(DOOR OPENER FRAME)



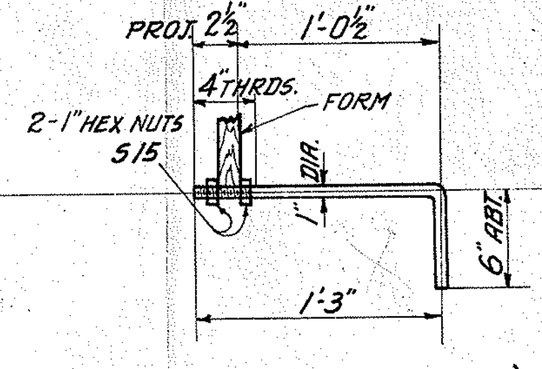
DOWEL ROD ⅝" H.R.S. x 5'-0" LG. S30

12 REQ'D.



ROD 1⅜" H.R.S. x 5'-0" LG. S4; 16 REQ'D.

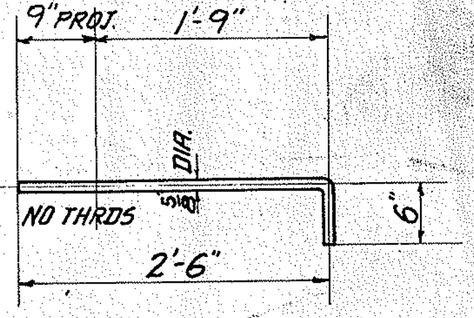
(DRUM SHAFT BRGS.)



ROD 1" x 1'-9" S14; 7 REQ'D.

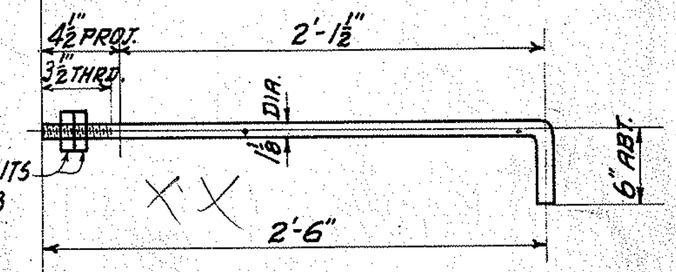
4 FOR DOOR OPENER FRAME G550

3 FOR GRATING SUPPORT KA370B



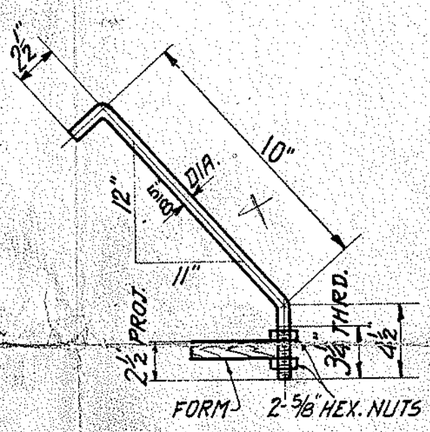
DOWEL ROD ⅝" x 3'-0" LG. S31

12 REQ'D.



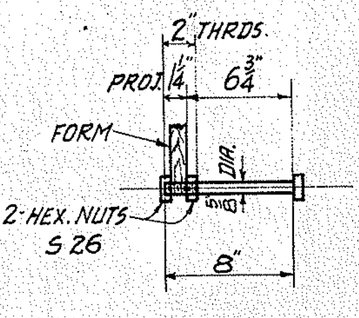
ROD 1⅛" H.R.S. x 3'-0" LG. S6; 10 REQ'D.

(REDUCER BASE)



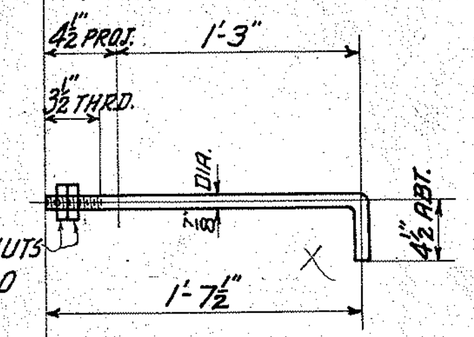
ROD ⅝" H.R.S. x 1'-5" LG. S18; 24 REQ'D.

(GRATING SUPP. FRAME KA350, KA351-P33)



M. BOLT ⅝" x 8" LG. S25; 10 REQ'D.

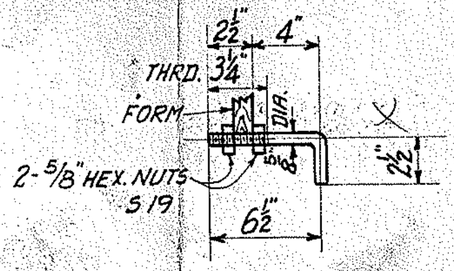
DOOR OPENER FRONT LE. AND BRACKET KA370B



ROD ⅞" H.R.S. x 2'-0" LG. S9; 16 REQ'D.

(8 END POSTS)

(8 END CLAMP TRACKS)



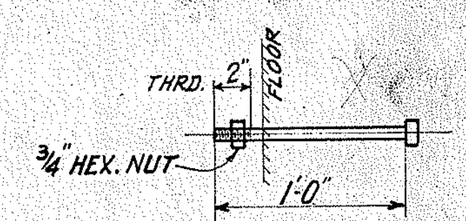
M. BOLT ¾" x 12" LG. S21

80 REQ'D. FOR HOPPER PER CO 73891

114 REQ'D. FOR HOPPER PER CO 72700

106 REQ'D. FOR HOPPER PER K-3557-Z2

108 REQ'D. FOR HOPPER PER K2952-Z4



M. BOLT ¾" x 1'-0" S27

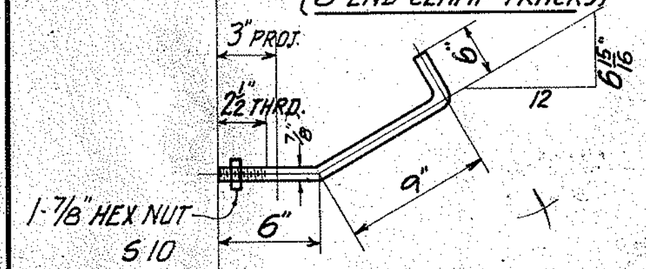
FOR HOPPER POSTS:

10 REQ'D. FOR HOPPER CO 73891

16 REQ'D. FOR HOPPER K-2952 Z4

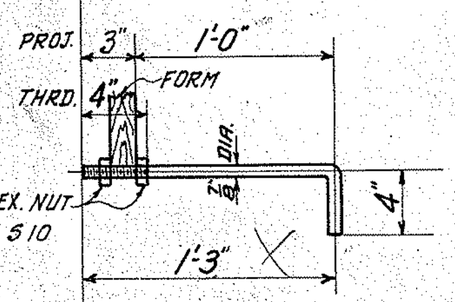
10 REQ'D. FOR HOPPER K-3557 Z2

8 REQ'D. FOR HOPPER CO 72700



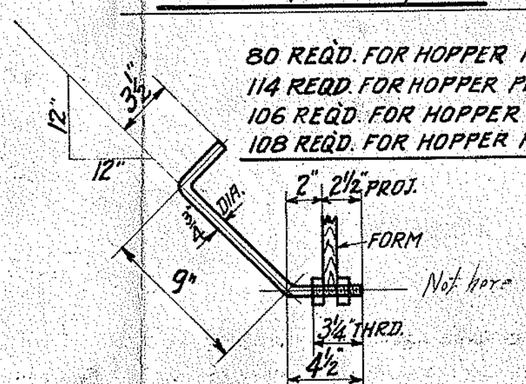
ROD ⅞" H.R.S. x 1'-9" S11; 6 REQ'D.

(END CLAMP TRACK)



ROD ⅞" H.R.S. x 1'-7" S12; 16 REQ'D.

(END POST BRACES)



ROD ¾" H.R.S. x 1'-5" LG. S23; 22 REQ'D.

FOR HOPPER PER CO 73891; NOT USED WITH HOPPER CO 72700 OR K3557 Z2 OR K2952 Z4

LINK-BELT COMPANY CHICAGO

DATE JUN 11 1952

ISSUED CUSTOMER TO

THIS PRINT VALID ONLY FOR PURPOSE INDICATED BELOW

- MAINTAINED ☐
- REFERENCE NOT TO BE USED FOR CONSTRUCTION ☐
- LIMITED TO ORDER NO. ☑
- SHOP
- PURCH.
- EST. NO.
- FIRST ISSUE ☐
- REPLACEMENT ☑
- DUPLICATE ☐
- REVISION ..... ADDED
- GROUP ..... ADDED
- PIECE ..... ADDED

K3825
K3756
K3589
K3577
K3557
K3292
K3170
K3137
K2992
K2982

LINK BELT GRAIN CAR UNLOADER 60 FT. LONG	REVISED: 11-12-46	2-25-47	1-20-48			DESIGNED	DRAWN W.E.ERICKSON	CHECKED W.R.M.	APPROVED	REFERENCE FOUNDATION DWG. CO. 73888+89	ORDER NO. K 2802
DETAILS OF FOUNDATION BOLTS						DATE 5-25-45 SCALE	LINK-BELT COMPANY			CO 73893	

Clennon & Kern, Chicago

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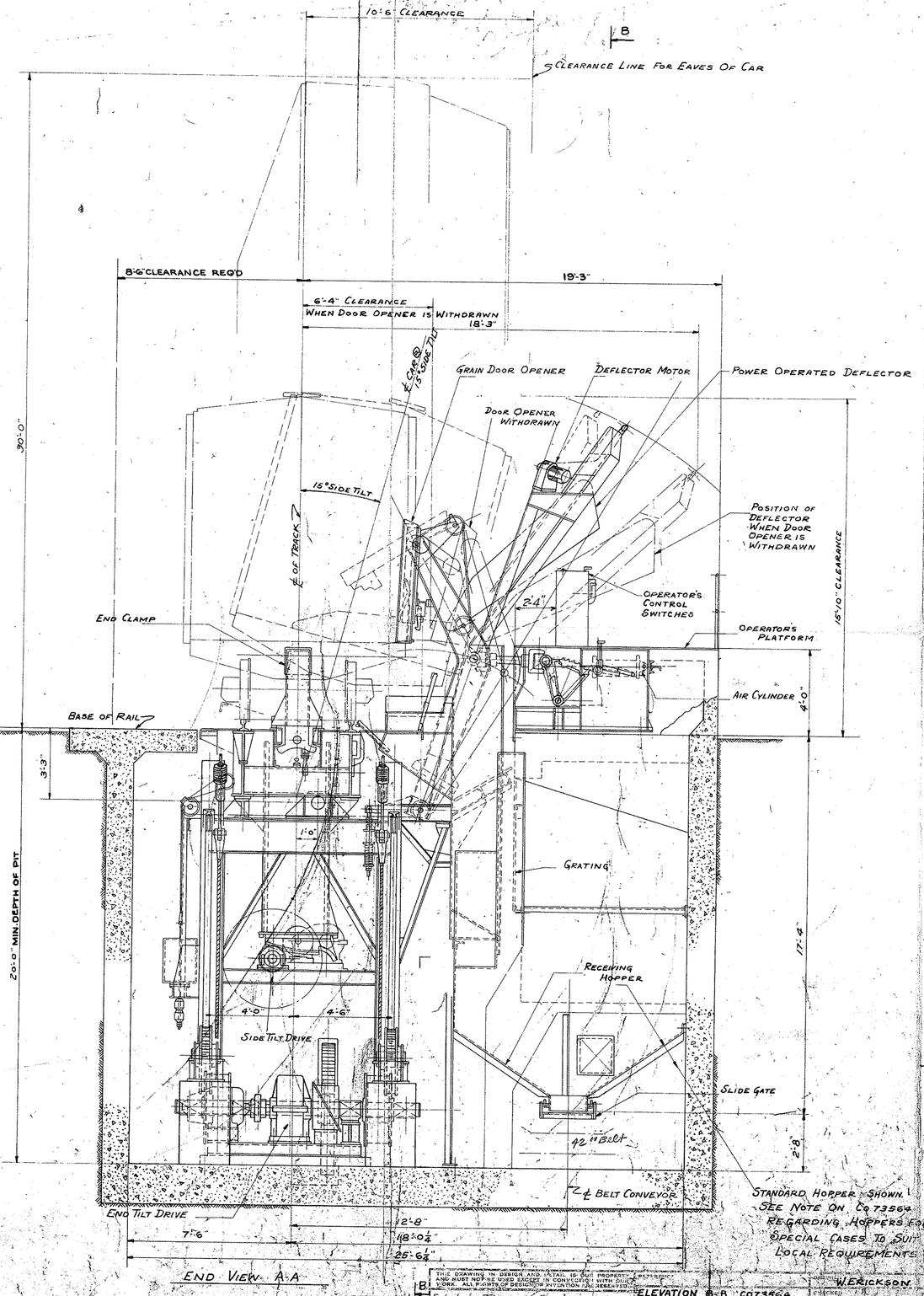
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DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA

DRAWING NUMBER

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
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STANDARD HOPPER SHOWN. SEE NOTE ON C073564 REGARDING HOPPERS FOR SPECIAL CASES TO SUIT LOCAL REQUIREMENTS.

LINK-BELT COMPANY
DATE NOV 13 1951
ISSUED TO Contract
THIS PRINT IS ISSUED ONLY FOR PURPOSES INDICATED BELOW
NOTE
NO.
LIMITED ORDER
SHOP
PURCH.
EST. NO.
FIRST ISSUE
REPLACEMENT
DUPLICATE
REVISION ADDED
GROUP ADDED
PIECE ADDED

ORDER	INDEX DWG.	ORDER	INDEX DWG.
K3557	K3557-Y1	K2802	C068616
K3517	K3517-Y1	K2754	C068246
K3559	K3559-Y1	K2835	C072690
K3756	K3756-Y3	K2950	K2950-Y1
		K2982	K2982-Y1
		K2899	K2899-Y1
		K3009	K3009-Y1
		K3048	K3048-Y1
		K3170	K3170-Z1
		K3292	K3292-Y1

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C073565	LINK-BELT COMPANY	ELEVATION B-B C073564	W.E.ERICKSON
		DATE 6-2-45	CHECKED
			APPROVED W.E.E.

LINK-BELT GRAIN CAR UNLOADER - 60 FT. LG.
GENERAL ARRANGEMENT - END VIEW
SCALE 3/8"-1'-0" DETAIL NO. KE8908
C073565

CO 72697

DRAWING NUMBER B32

PLAN HOLD CORPORATION • IRVINE, CALIFORNIA
REORDER BY NUMBER ONLY

DRAWING NUMBER

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SECTION A-A

SECTION C-C

MAKE TWO END LOCK HOUSINGS
WELD - MARK F-1 R/L

SECTION "B-B"

SECTION "D-D"

MAKE TWO STRUTS
MARK F-95 R/L

MAKE TWO STRUTS
MARK F-90

MAKE TWO POSTS
MARK F-70 R/L

SECTION "E-E"

SECTION "F-F"

MAKE TWO END CLAMP TRACKS
MARK D-450 R/L (L.H. SHOWN)

MAKE TWO END CLAMP TRACKS
MARK D-451 R/L (R.H. SHOWN)

GENERAL ARRANGEMENT END LOCK MECHANISM { 52'-6" LG. UNLOADER CO 60251 / 60'-0" LG. UNLOADER CO 73591

LINK-BELT COMPANY
CHICAGO
DATE JUN 11 1952
ISSUED TO CUSTOMER
THIS PRINT VALID ONLY FOR PURPOSE INDICATED BELOW
MAINTAINED
REFERENCE
LIMITED TO ORDER NO.
SHOP
PURCH.
EST. NO.
FIRST ISSUE
REPLACEMENT
DUPLICATE
REVISION ADDED
GROUP ADDED
PIECE ADDED

K-2992
K-2982

TITLE: LINK-BELT GRAIN CAR UNLOADER
DETAILS-END POST, END LOCK HOUSING, END CLAMP TRACKS

REV.	DATE	DESCRIPTION OF REVISION
A		

DESIGNED | DRAWN W.E.E. | CHECKED | APPROVED | REFERENCE
71-23-45
SCALE 1"=1'-0"

LINK-BELT COMPANY

CO 72697

Gleaves & Knox, Chicago