

GENERAL NOTES

Specification: All phases of construction and all materials are subject to the specifications of the Territorial Highway Department.

Dead Load: 5 lbs. per foot B.M.
Paving 35 lbs. per sq. ft. of roadway.
Live Load: H20 Loading. No impact.
Impact $\frac{50}{1+25}$ for steel girders, if any.
Timber: All timber to be Coast Region Douglas

Timber: All timber to be Coast Region Douglas Fir, and to be graded according to the Standard Grading and Dressing Rules of the West Coast Lumbermen's Association

Bridge flooring to be 2"x6"x28'-0" long, s1s1e, rough edge up 14 lines of 6"x18" stringers. Stringers to be sized to uniform depth of 17 1/2" at points of bearing, and each piece toe nailed to cap with 4-20d nails. Two outside rows of stringers to have butt joints with ends cut on taper, all other stringers to have lapped joints, lapped ends to have 1/2" separators

4" solid bridging over caps and at ends of bridge.

2"x4" cross bridging, at center of span entire width, to be securely toe nailed at each end.

Treatment of Timbers:
See Special Pro

Painting: All railings and rail posts to be painted with 3 coats of specified white lead paint above bottom of wheel guard and 3 coats of specified black paint below bottom of wheel guard. The wheel guard shall be painted with 3 coats of specified white lead paint on its three exposed surfaces. All painting shall be done after the paving on the bridge has been completed. During paving operations effective precautions shall be taken to prevent all surfaces to be painted from being stained by asphalt, oil or other similar ingredients used in the pavement.

Hardware: All bolts, drift pins, nails, spikes, nuts, washers, split ring connectors, anchors and other metal parts shall be hot-dipped galvanized.

Pile Heads: Treatment of pile heads to be done in accordance with specifications article 1.13 Pamphlet T.I.

Treatment of Bolt Holes:

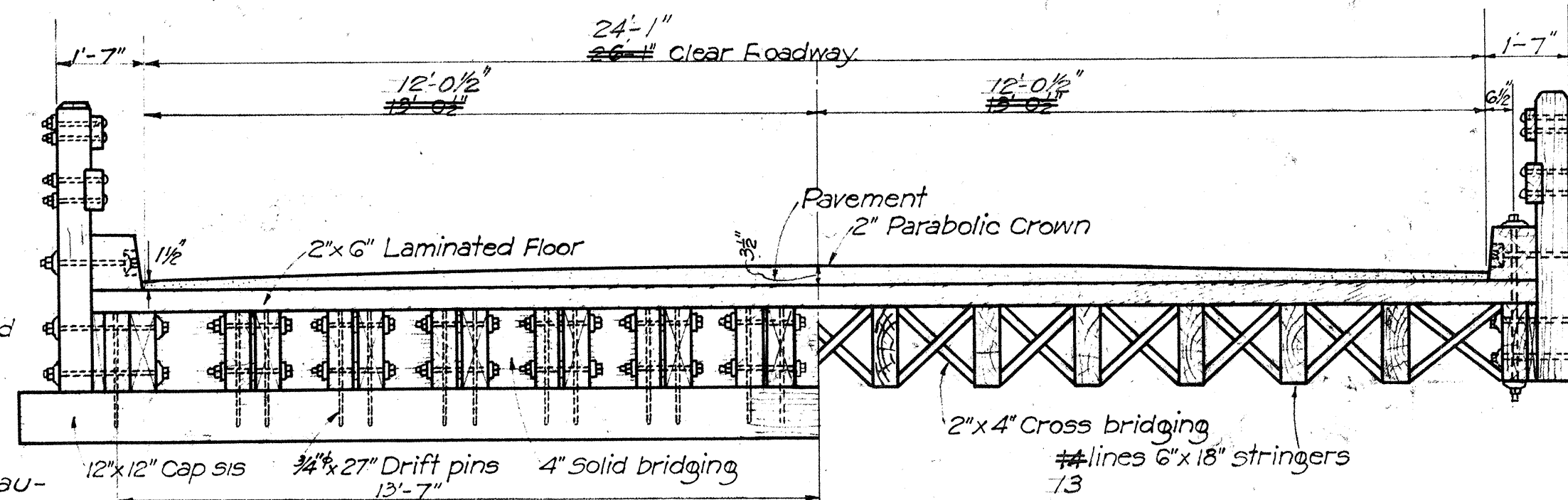
All bolt holes bored after treatment shall be treated by means of an approved pressure bolt hole treater. The preservative to be used for this purpose shall be the same as that used for the timber.

SPECIFICATION FOR ASPHALT FILLER

Melting Point	190-200 (A.S.T.M. D36-26)
Penetration	30-40 (A.S.T.M. D5-25)
Flash Point min.	400 (A.S.T.M. D93-22)

The following lumber shall be treated with either chromated zinc chloride or Wolman Salts as specified.

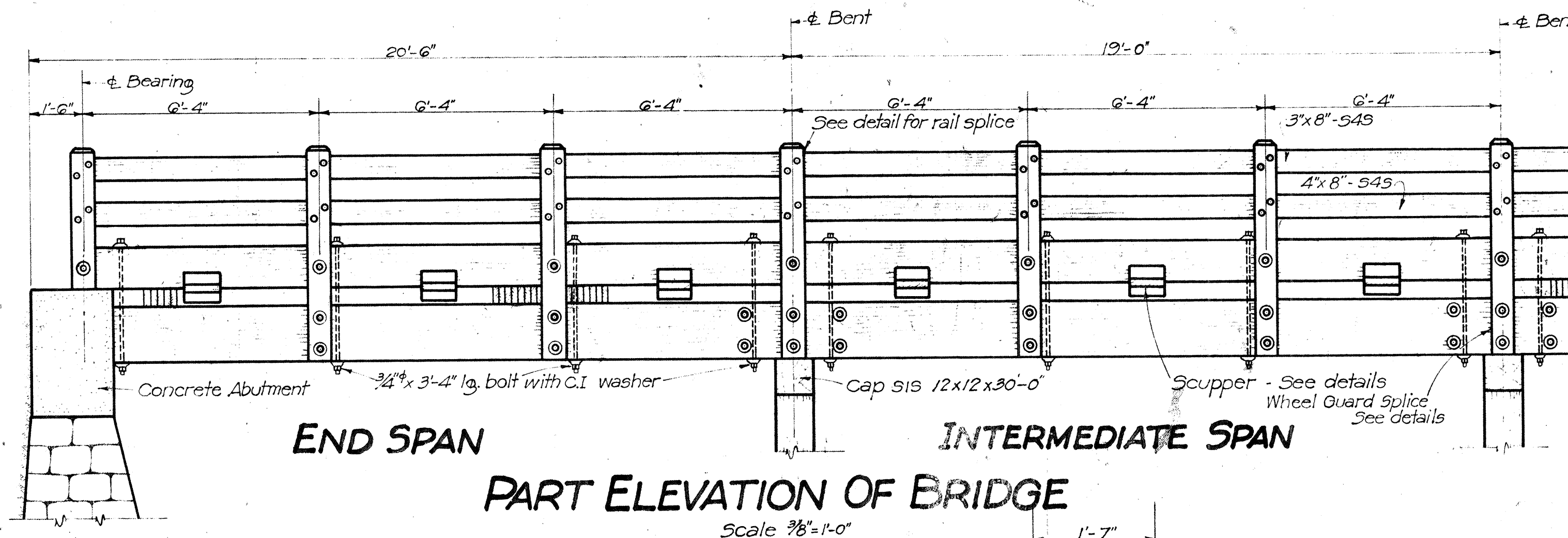
- 12"x14" Wheel guard
- 8"x8" and 12"x12" rail posts
- 4"x8" and 3"x8" **railing.**
- 3"x12" T. & G. Fire Walls



HALF SECT. AT BENT

HALF SECT. AT CENTER
OF SPAN

Scale $\frac{3}{8}'' = 1'-0''$

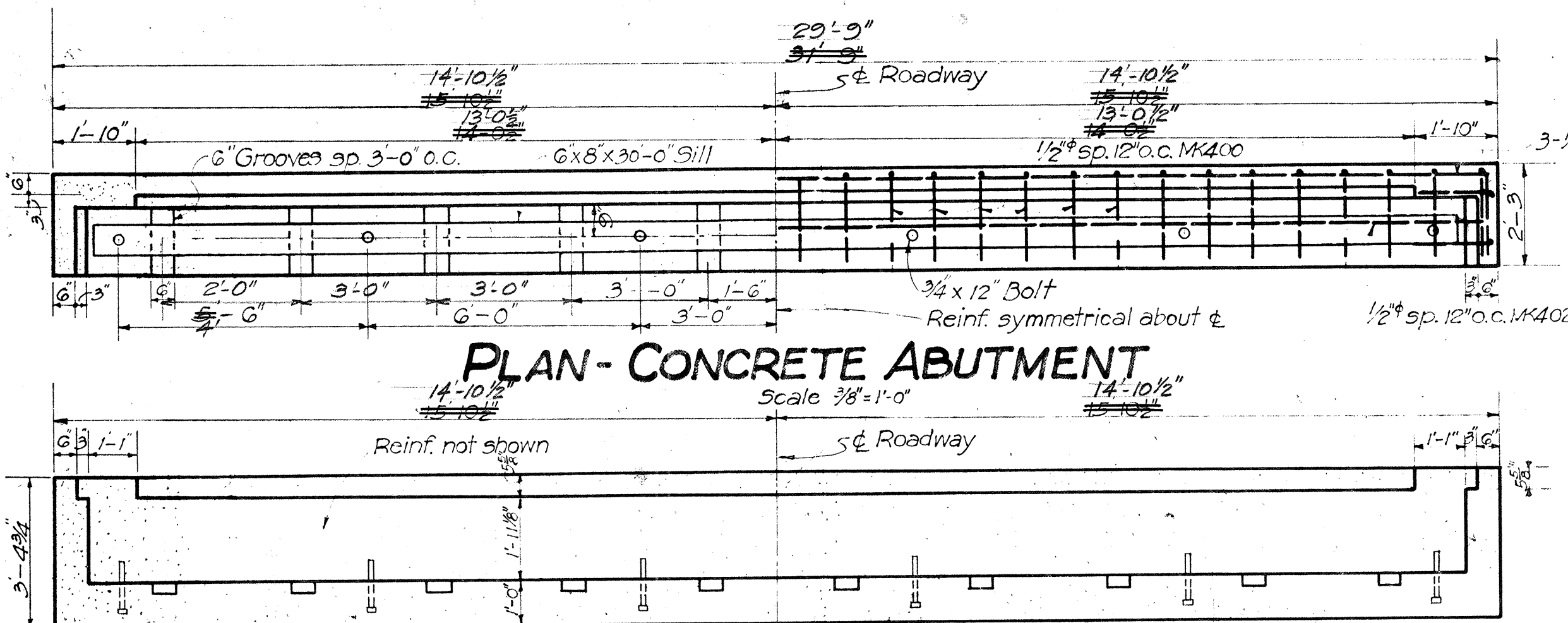


END SPAN

INTERMEDIATE SPAN

PART ELEVATION OF BRIDGE

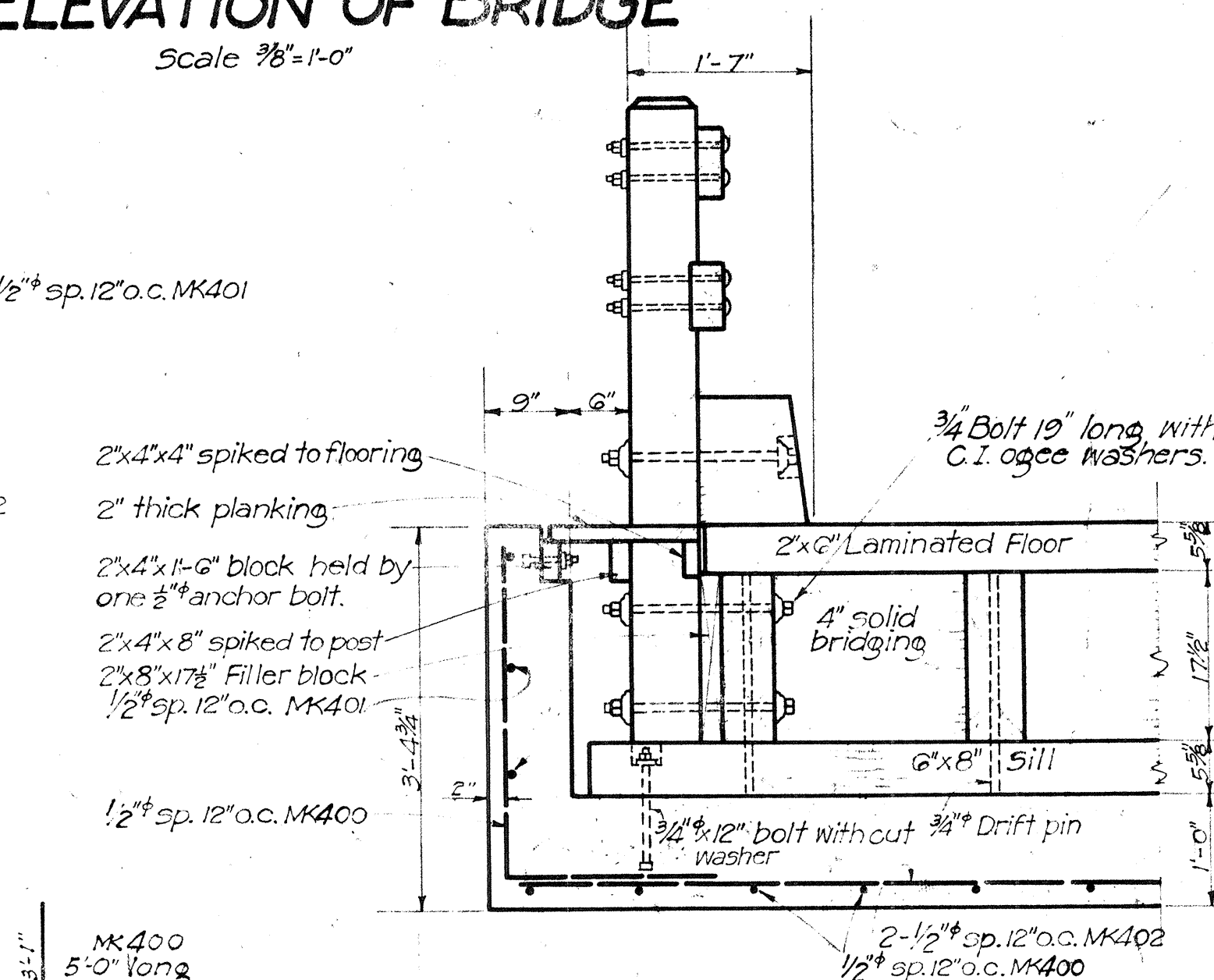
Scale $\frac{3}{8}" = 1'-0"$



ELEVATION - CONCRETE ABUTMENT

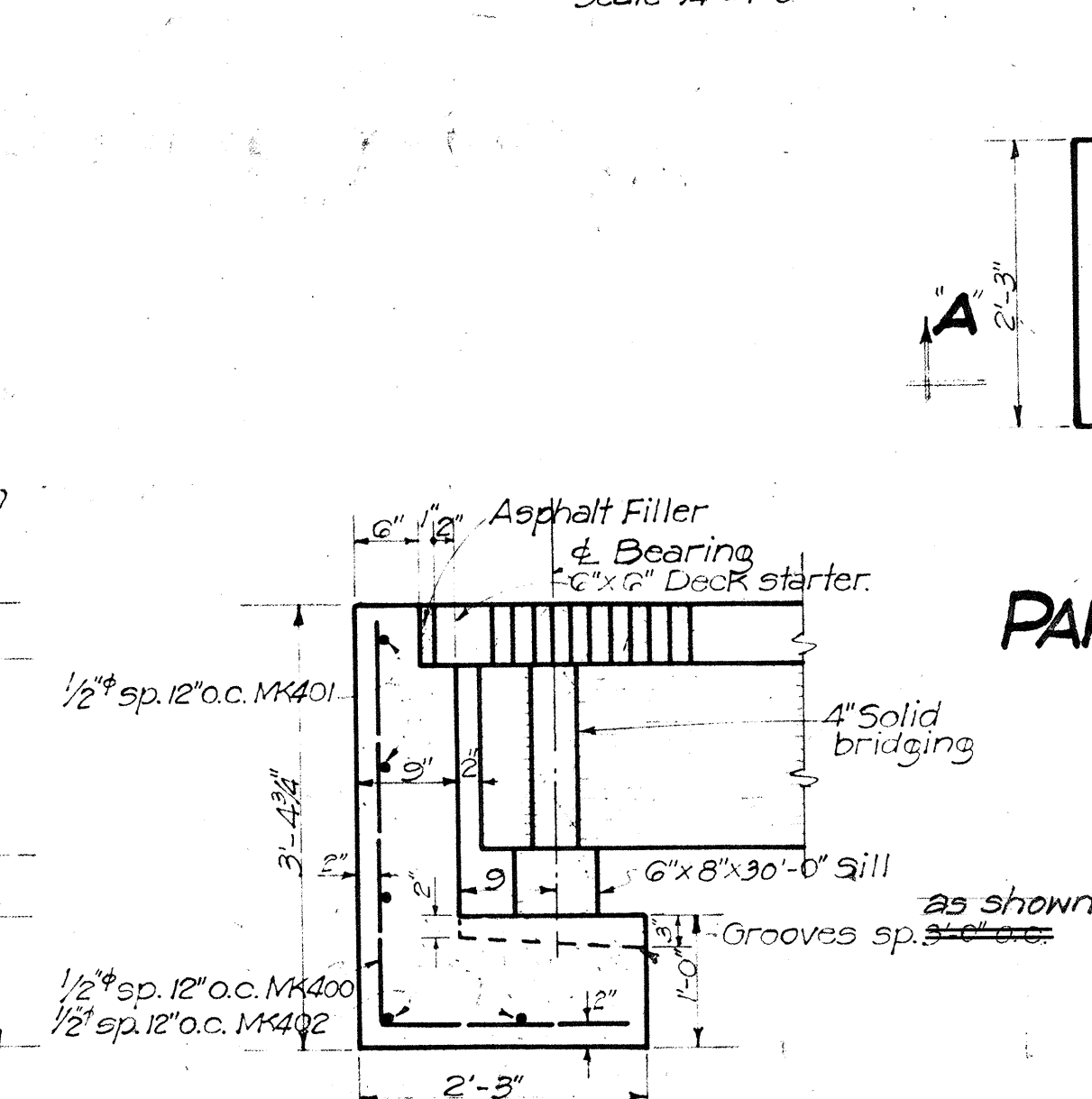
Scale $\frac{3}{8}'' = 1'-0''$

4.47 ~~4.89~~ Cu. yd. Class A Concrete
222 ~~234~~ Lbs. of Reinf. Steel



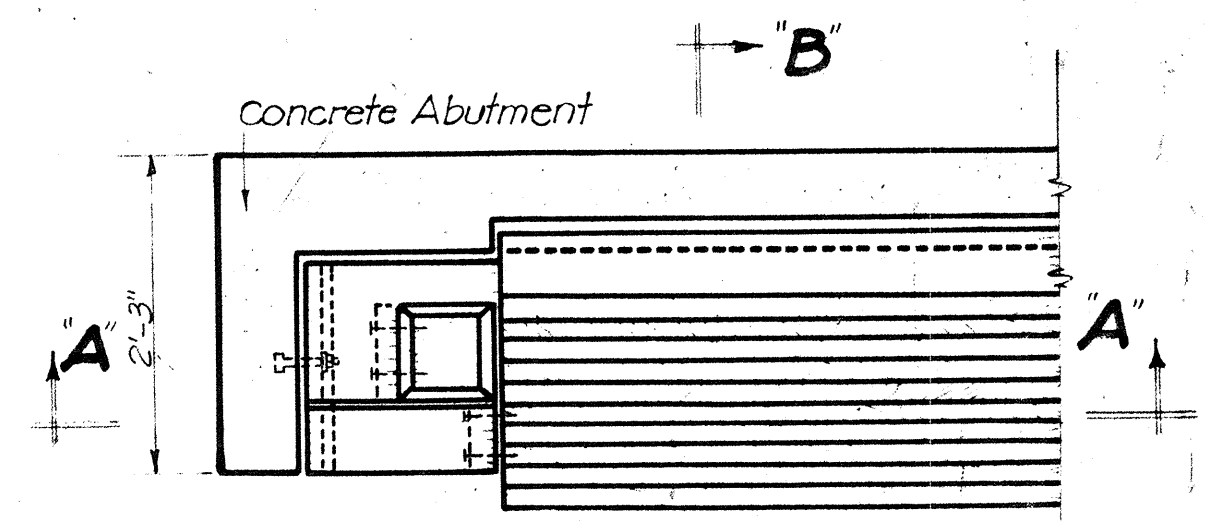
SECTION A-A

Scale $\frac{3}{4}" = 1'-0"$



SECTION B-B

Scale $\frac{3}{4}" = 1'-0"$



PART PLAN-END OF BRIDGE

Scale $\frac{3}{4}" = 1'-0"$

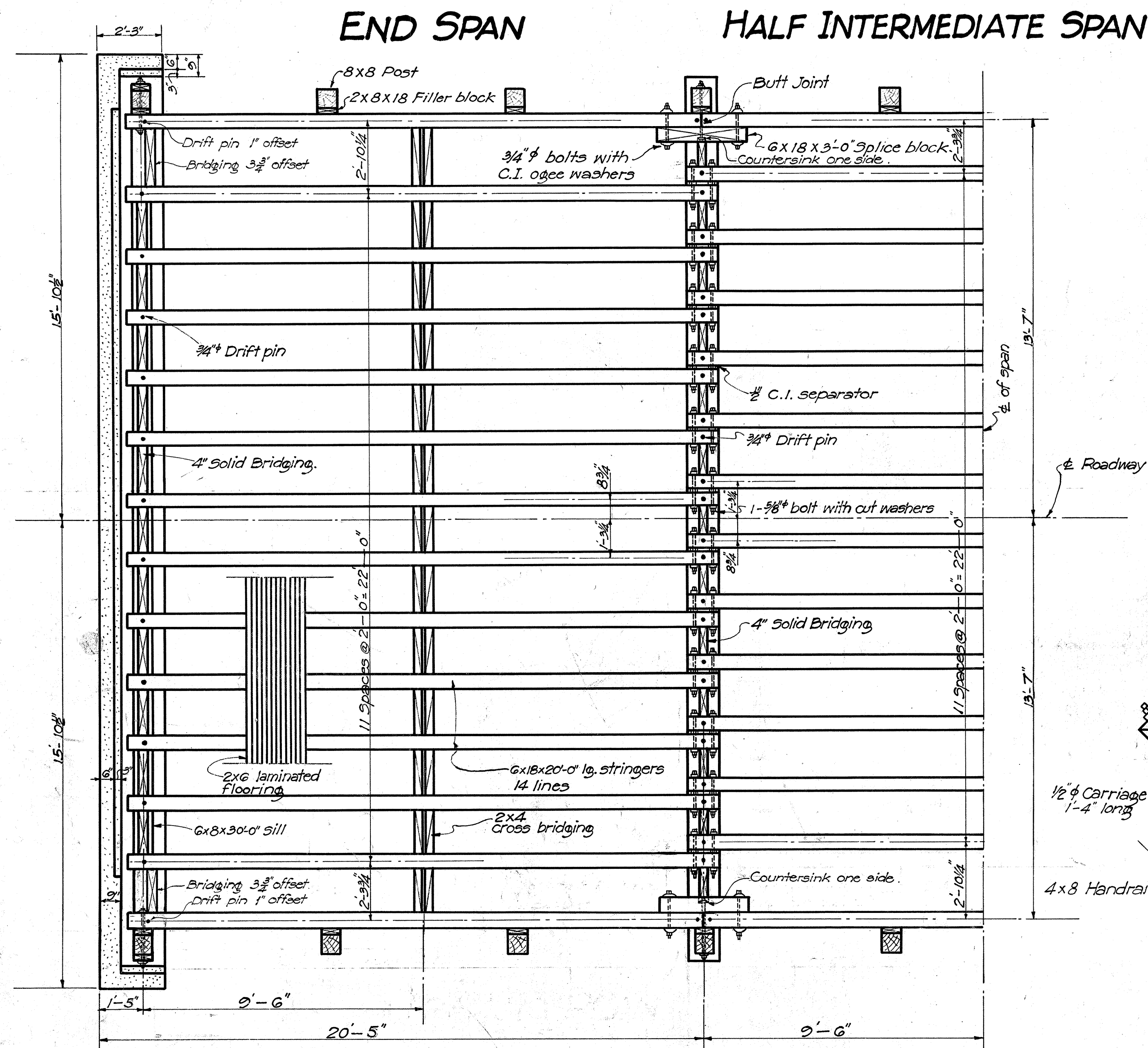
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

STANDARD DETAILS FOR TIMBER BRIDGES ON TANGENT

To be used for heavy equipment. H-20

SHEET No. 1 OF 2 SHEETS

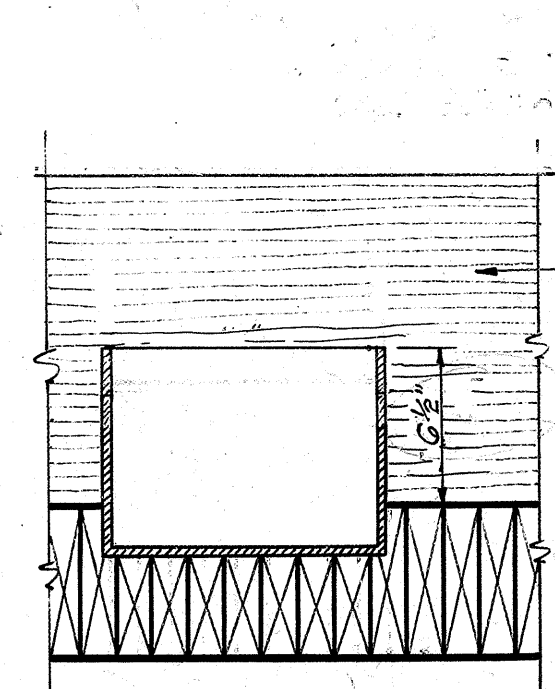
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1-2-1-1-1	14-1-1	1-1-1-1-1	1-1-1	1-1-1	1-1-1



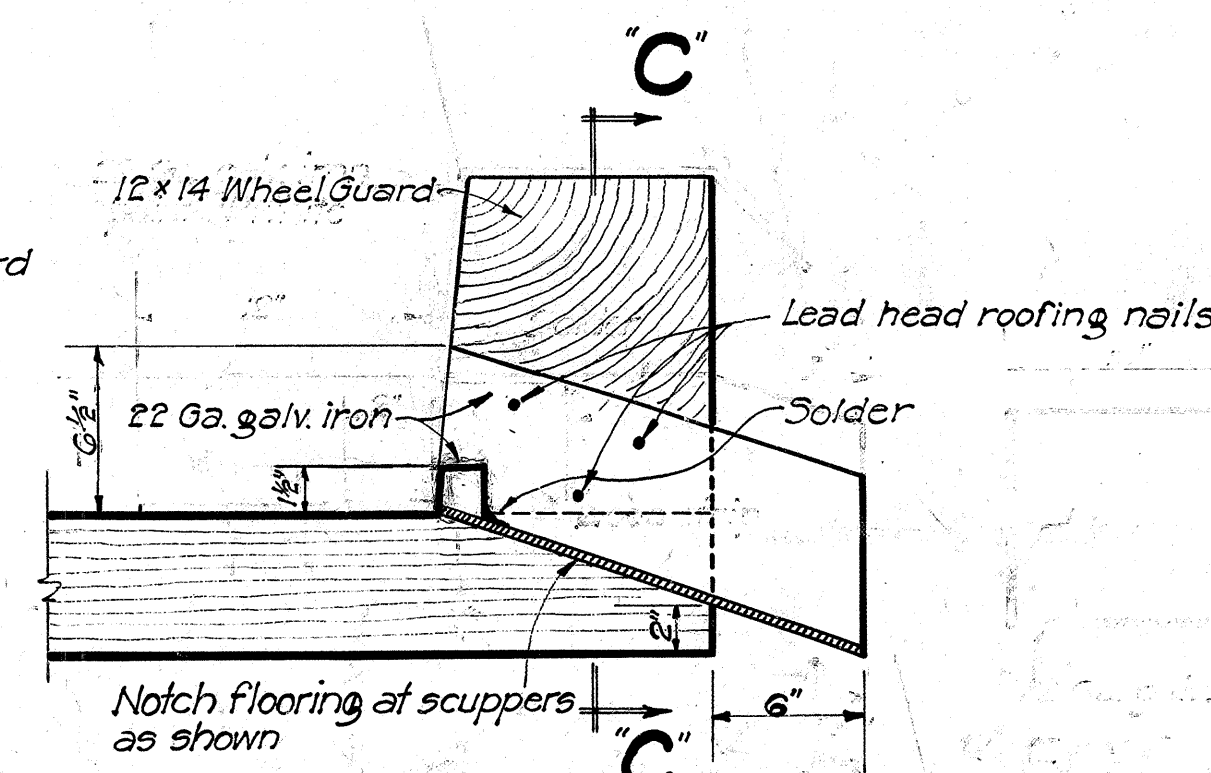
FRAMING PLAN

Scale $\frac{3}{8}'' = 1'-0''$

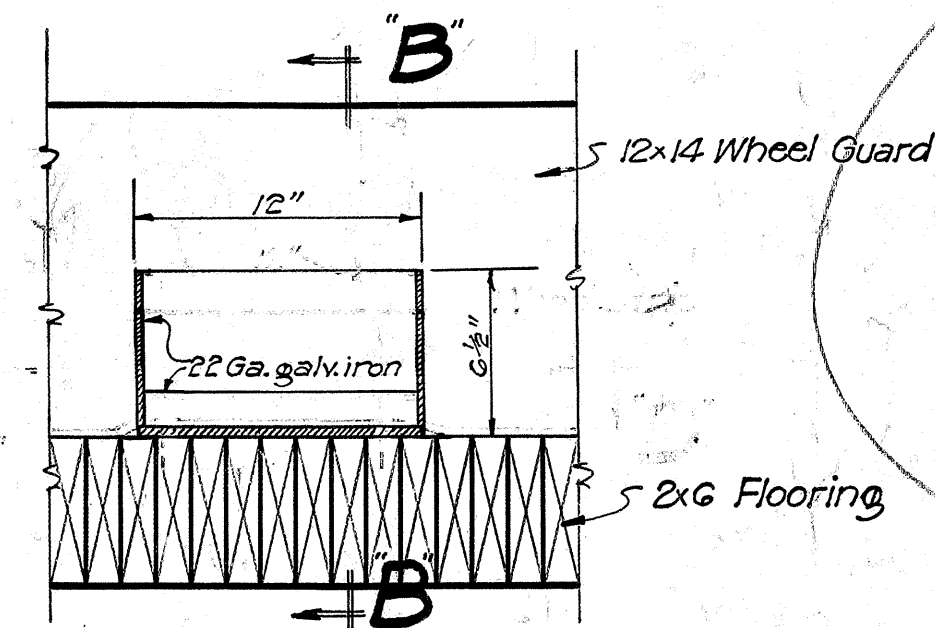
NOTE: In bridges with superelevation
scuppers occur on low side only.



SECT. C-C
Scale $1\frac{1}{2}" = 1'-0"$



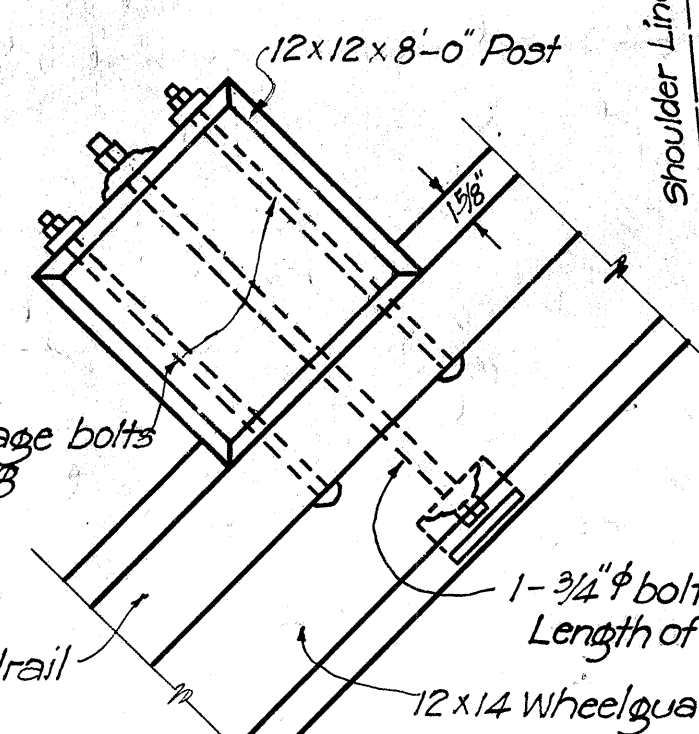
SECT. B-B
Scale $1\frac{1}{2}" = 1'-0"$



ELEV. OF SCUPPER

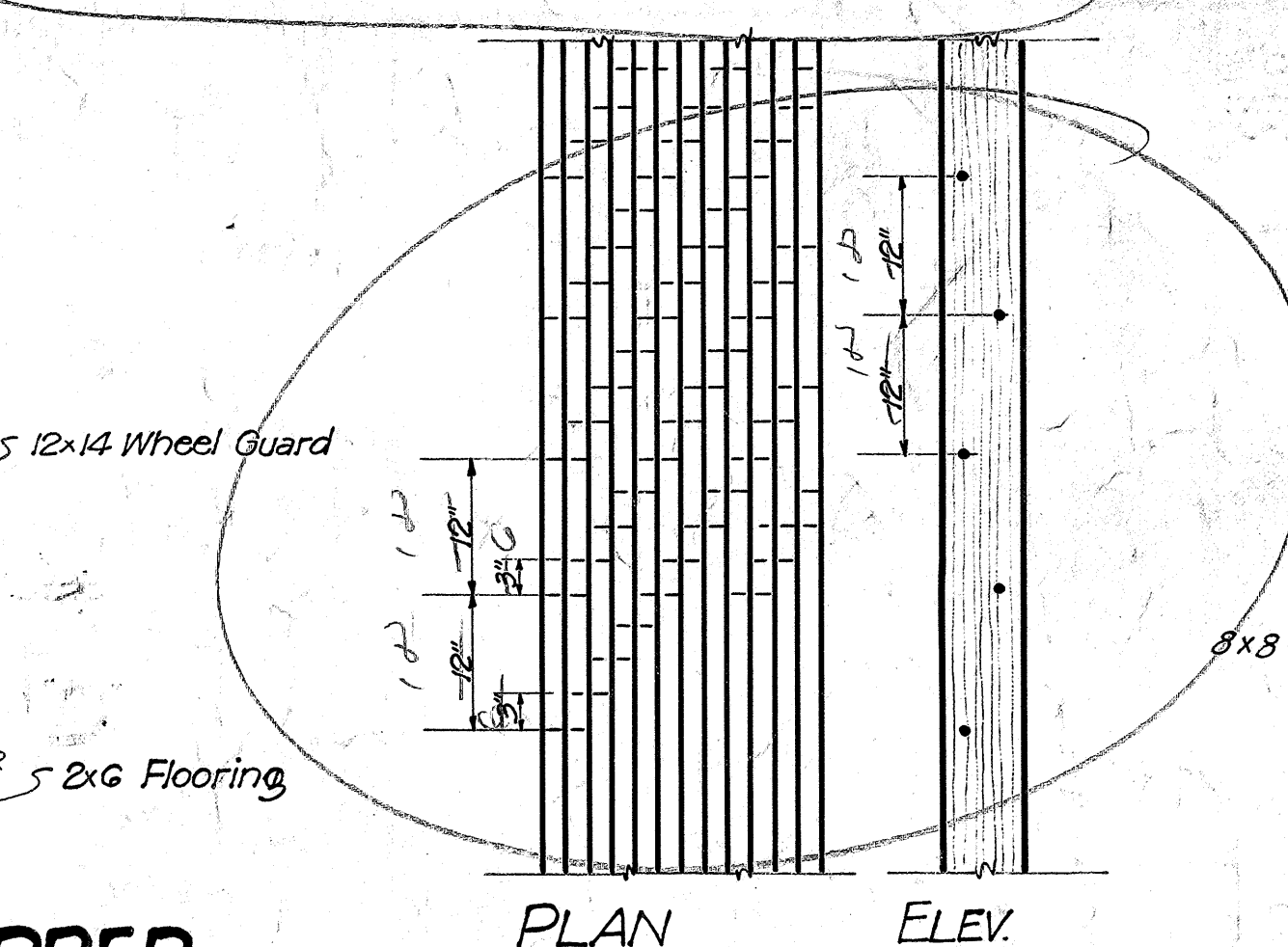
Scale $1\frac{1}{2}" = 1'-0"$

NOTE! Galvanized iron scupper lining is incidental to the timber and will not be paid for separately.

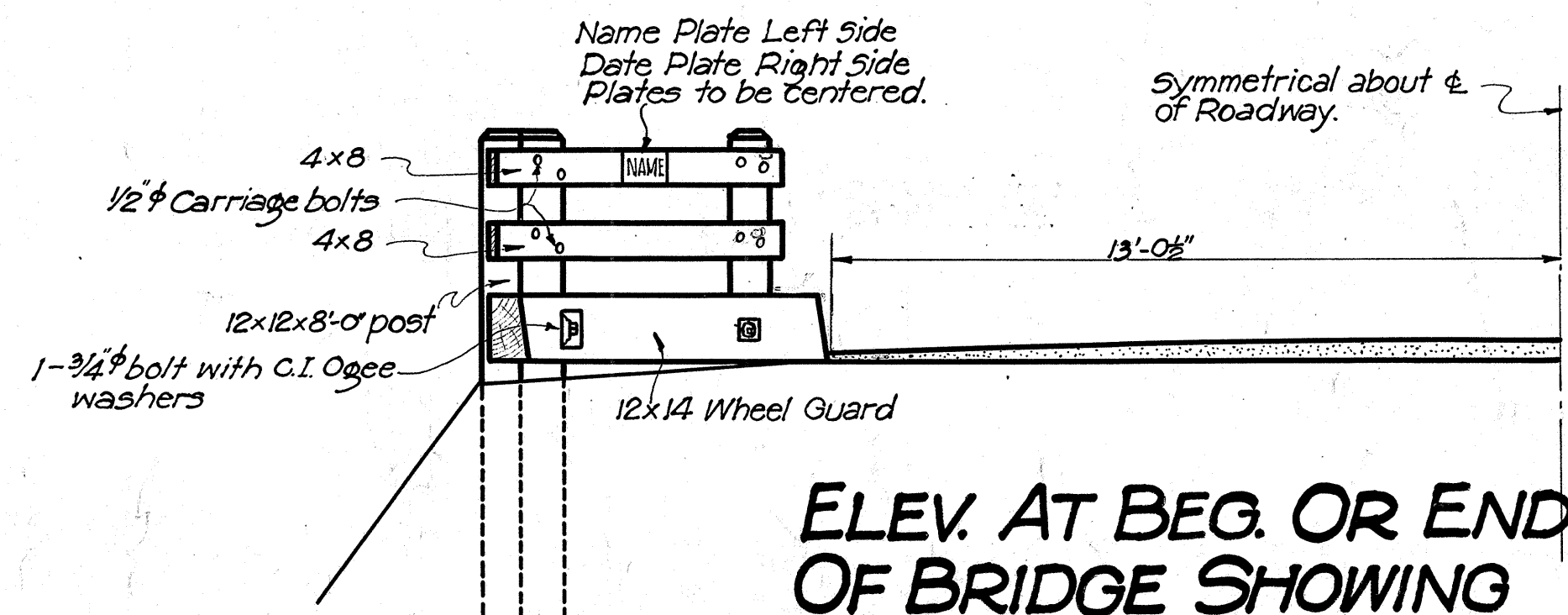


DETAIL "A"
Scale $1\frac{1}{2}" = 1'-0"$

NOTE!
4d. cut nails placed 12" o.c. and staggered
Every other Each strip to be toe nailed to each stringer
with one 30 d. nail. (every other)

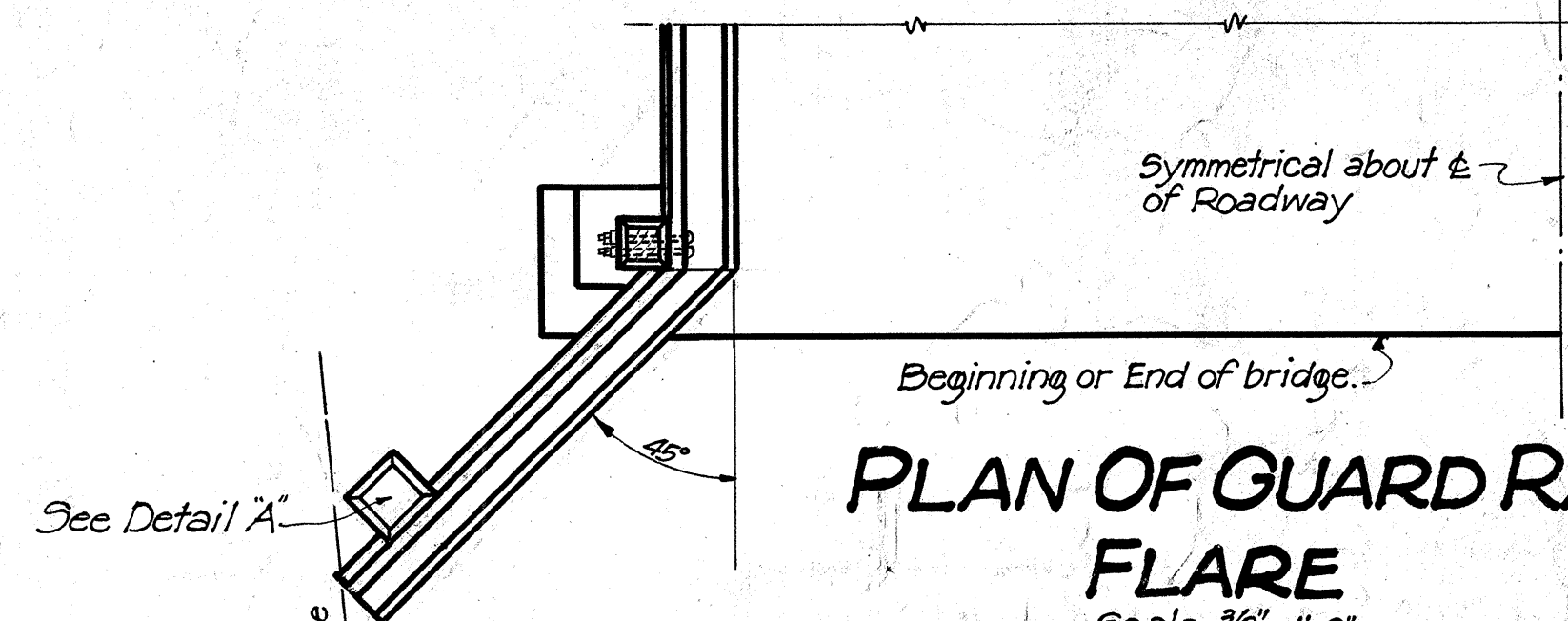


METHOD OF NAILING LAMINATIONS



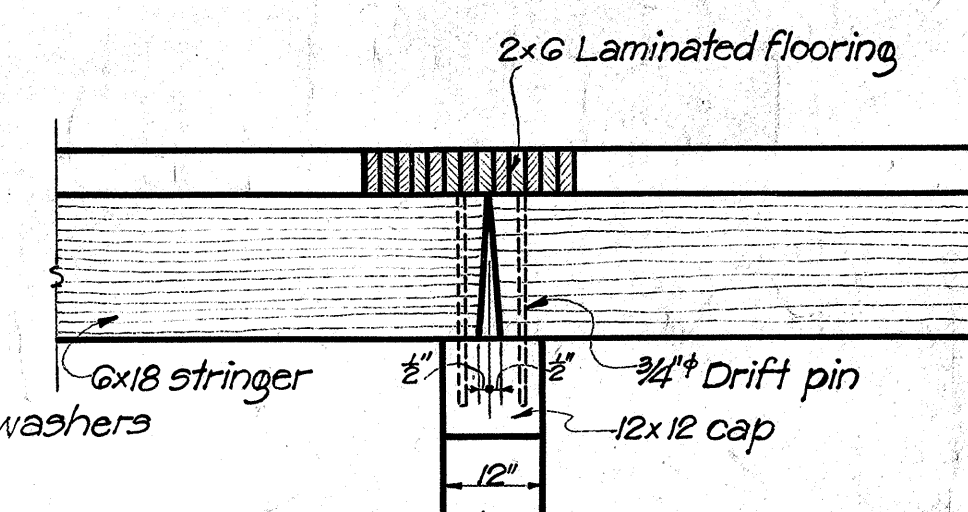
ELEV. AT BEG. OR END
OF BRIDGE SHOWING
GUARD RAIL FLARE

Scale $\frac{3}{8}'' = 1'-0''$



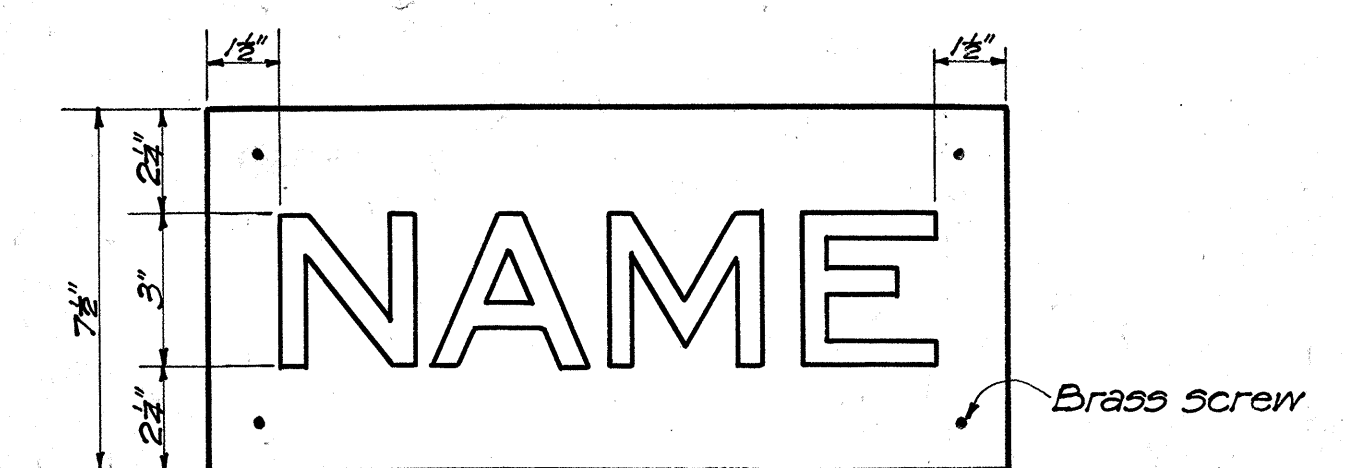
PLAN OF GUARD RAIL FLARE

Scale $\frac{3}{8}'' = 1'-0''$

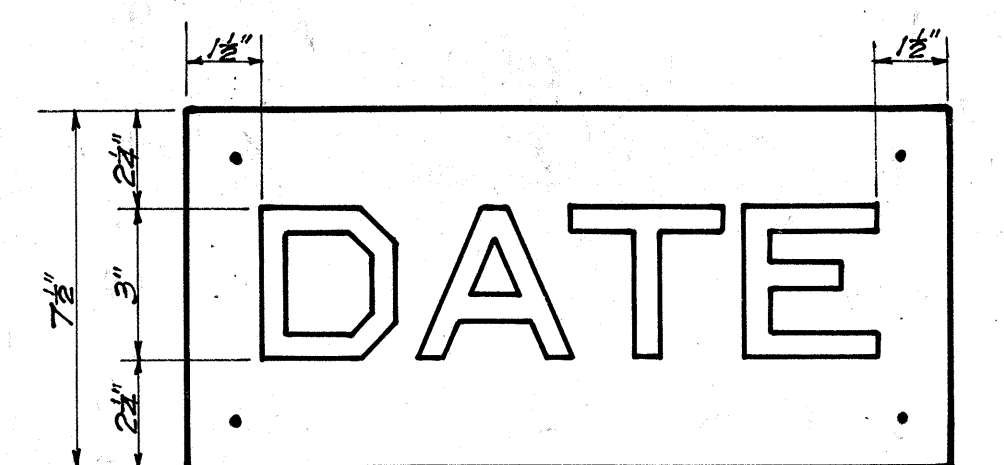


DETAIL OF TAPERED ENDS OF BUTT JOINTED STRINGERS

Scale $\frac{1}{2}'' = 1'-0''$



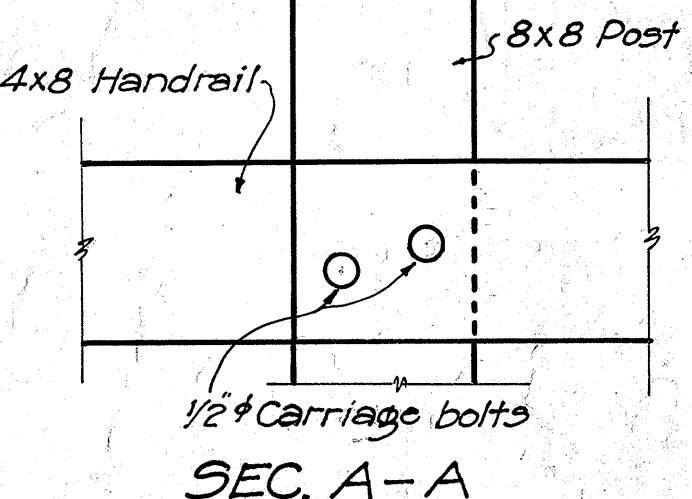
Use correct name of stream
LEFT HAND SIDE



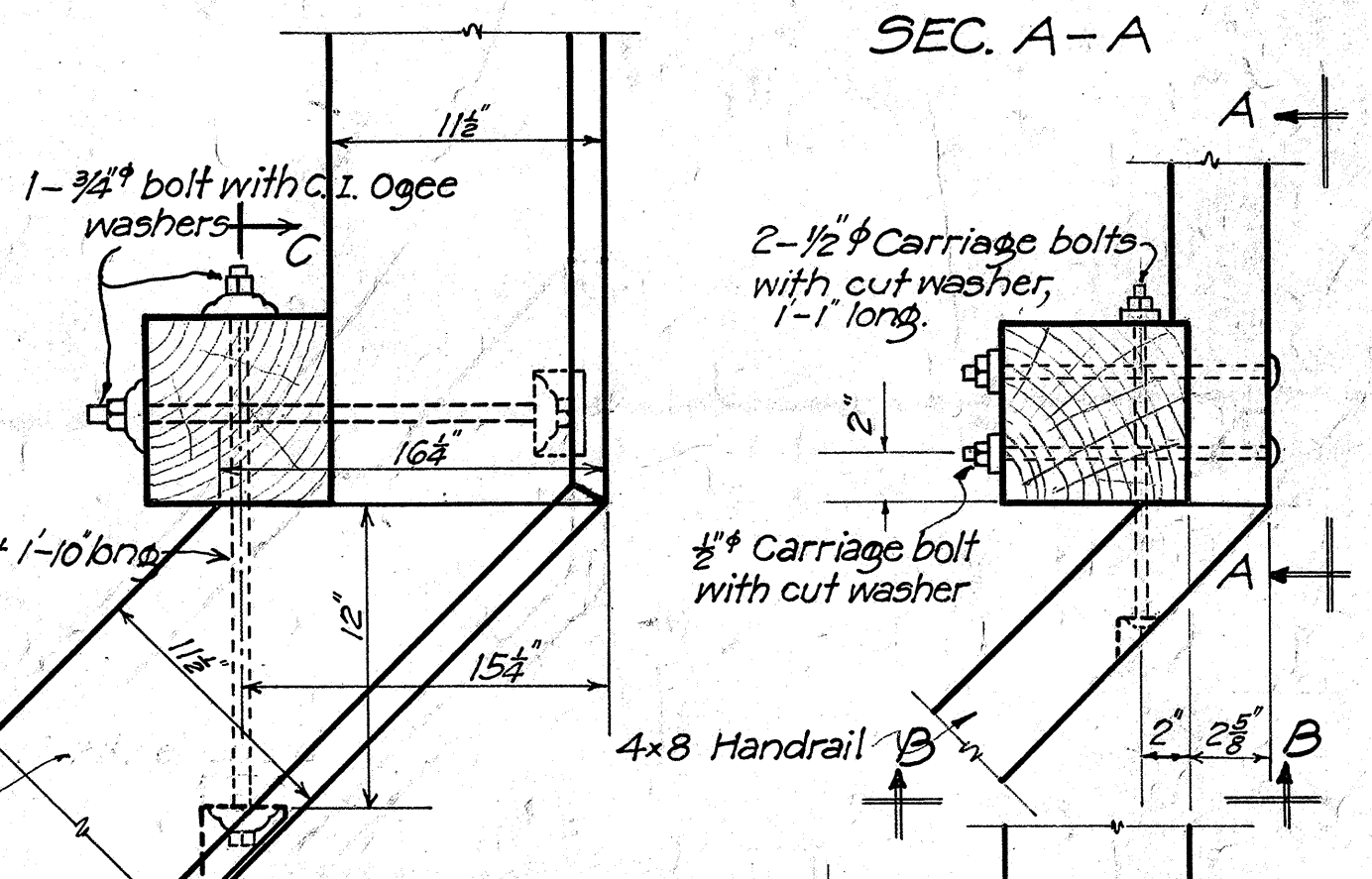
Date of year built
RIGHT HAND SIDE

DETAIL OF LETTERS & FIGURES AT BOTH APPROACHES

NOTE: Signs to be made of 1"x8" Redwood 5252E
Letters and figures to be black on white field.

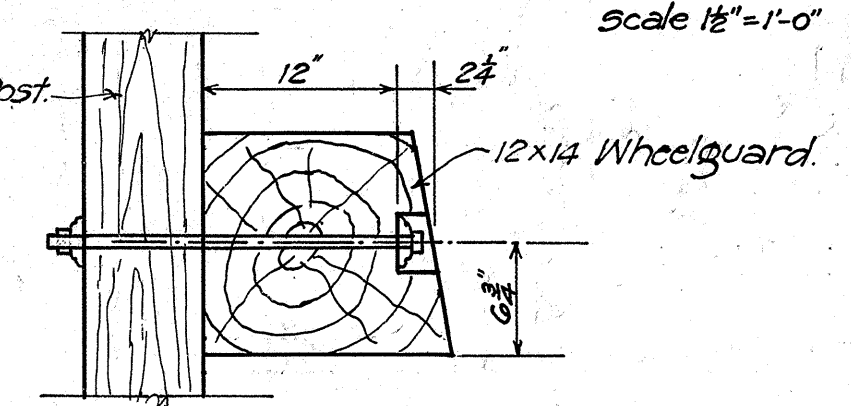


SEC. A-A



DETAIL OF FLARE SPLICE

Scale $1\frac{1}{2}" = 1'-0"$



SECTION C-C

Original 24'-1" width changed to 26'-1" width.
To be used for heavy equipment. H-20

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

STANDARD DETAILS FOR TIMBER BRIDGES

June - 1940

SHEET No 2 OF 2 SHEETS

5104.27

Original 24'-1" width changed to 26'-1" width.

To Be used for heavy equipment. H-20