

STATE	PROJECT DESIGNATION	YEAR	SHEET NO	TOTAL SHEETS
ALASKA	RS-0902(5)	1976	1	5

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

AS BUILT PLANS
PROPOSED HIGHWAY PROJECT
 RS-0902(5)
SOUTH TONGASS HIGHWAY
GUARDRAIL

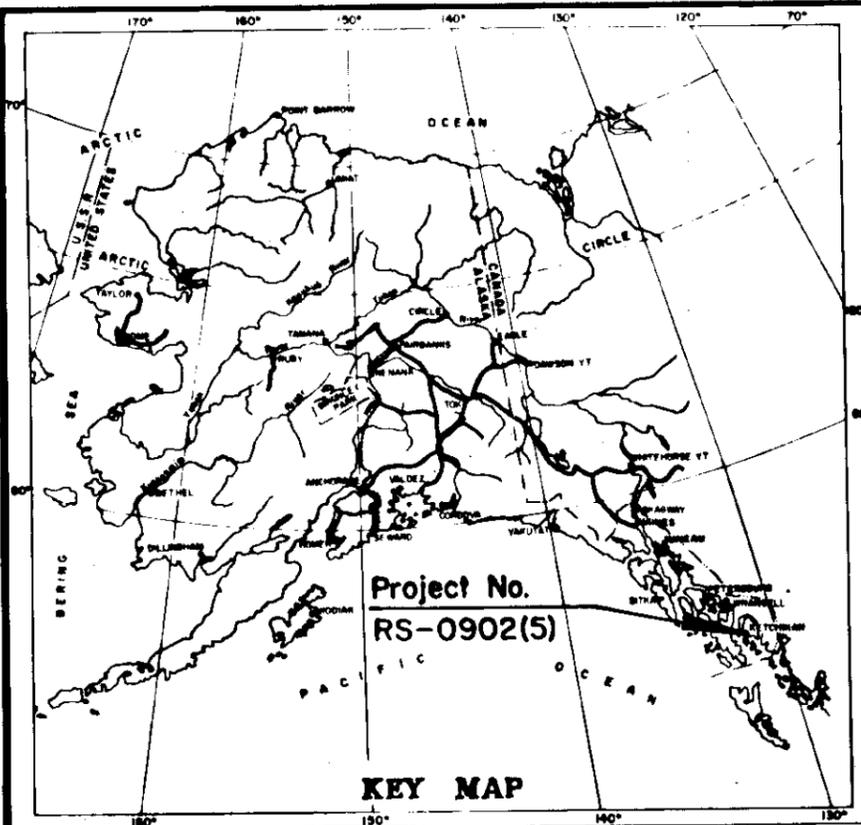
INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	Title Sheet
2	Est. of Quantities & Guardrail Summary
3-5	Bridge Crossing Details

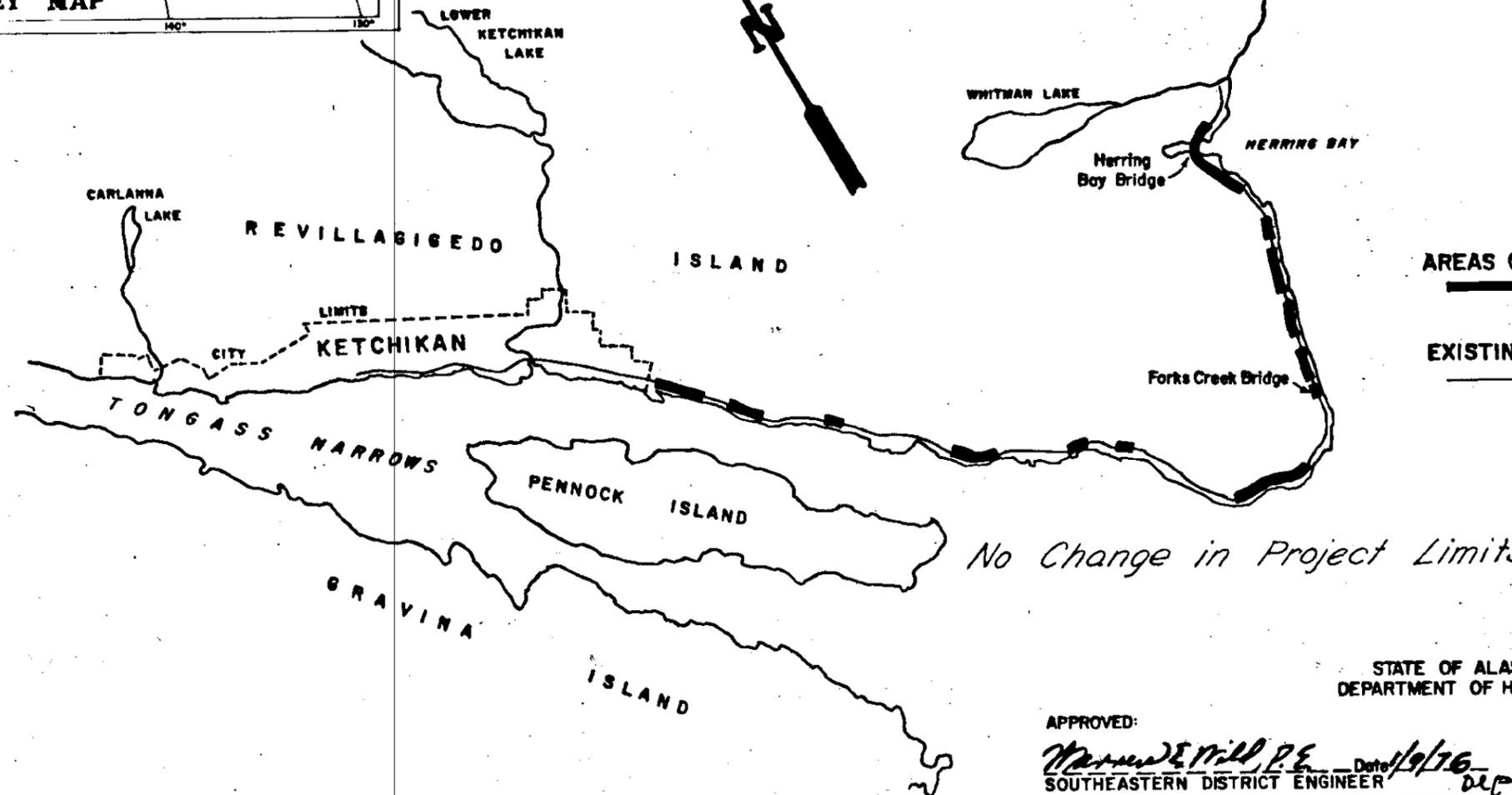
The following Standard Drawings apply to this project; A-1, C-10.00, C-11.01, G-04.13, G-04.31, G-10.11, G-30.01, G-30.12.

DESIGN DESIGNATION

ADT (1974) = 1615
 ADT (1995) = 5000
 OHV 15% = 750
 D = 30-70
 T = 5%



Contractor: Stillwell-Gerard Const.
Proj. Engr: Dale Robbins
Begin: 4-1-76
Complete: 6-18-76



APPROVED:

Harold E. Mill, P.E. Date *1/9/76*
SOUTHEASTERN DISTRICT ENGINEER

STATE OF ALASKA
DEPARTMENT OF HIGHWAYS

APPROVED:

Neil Carter Date *1/22/76*
COMMISSIONER OF HIGHWAYS

BASIS OF CONTROL : End of Concrete Pavement and Beginning of Asphalt Pavement at South City Limits line equals B. P. R. "As Built" Station 14+56.7

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RS-0902(5)	1976	2	5

GUARDRAIL SUMMARY

BEGIN STATION	LENGTH L.F.		BORROW Cu. Yd.	REMARKS
	Lt.	Rt.		
17+20	775	-650	-50 100	
27+75	337.5	-350	-50 60	Remove & Dispose 175 L.F. of existing guardrail. Provide 5' wide opening in rail for stairway at Sta. 66+35 as directed by the engineer.
35+70	1875	-1900	-100 180	
59+50	300	-312.5	-50 0	
65+10	1362.5	-1412.5	-100 220	
108+50	Delete	450	50	
137+00		325	0	
127+05	800	-812.5	-50 110	
163+35	425	-462.5	-50 120	
169+25	375	-400	-600 ⁴²⁰ BORROW	
174+50	175	-187.5	75 70	
175+00	-125	112.5	-50 0	Begin section with 25 L.F. of shop fabricated rail with 25' radius. Posts will have to be attached to top or side of concrete rail on 14' wide box culvert.
202+00	42.5	1375	-50 0	
207+00		850	0	
217+85	725	600	50 0	
239+00	350	-275	-50 0	
244+25	337.5	325	-50 0	
251+50	200	600 ^{587.5}	-100 120	
259+00	337.5	275	-50 0	
277+00	312.5	350	50 140	
281+65	562.5	-600	-50 110	
292+25	787.5	-637.5	-80 120	See note No. 3
296+25	-137.5	162.5	-20 0	See note No. 3
311+00	2900	-2950	-100 40	
348+40	225	-275	-50 0	Begin section with 25 L.F. of shop fabricated rail with 50' r.
354+75	750	-575	-50 0	
361+00		1225	-100 -10	
377+00	262.5	300	50 0	See note No. 3
388+00	-1025	987.5	-150 0	Begin section with 50 L.F. of shop fabricated rail with 15' r.
388+60	950	-1025	-250 0	

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM	UNIT	QUANTITIES
1	Furnish and Maintain Engineering Facilities	L. S.	All Req'd
110(1)	Mobilization	L. S.	All Req'd
111(1)	Temporary Erosion and Pollution Control	Cont. Sum	All Req'd
113(1)	Flagging	M. H.	400 449.5
203(5C)	Borrow	Cu. Yd.	± 925 1820
606(1)	Beam Type Guardrail, Type 1 Post	L.F.	19,800 19,862.5
606(4)	Removal and Disposal of Guardrail	L.F.	450 2
611(1)	Rip Rap Class 1	Cu. Yd.	600 702

GENERAL NOTES;

- Guardrail locations as called for on these plans are subject to minor revisions.
- Borrow quantities as listed are approximate only. Borrow shall be placed in amounts and at locations as directed by the engineer.
- Install transitions to and from the Forks Creek Bridge and the Herring Bay Bridge as staked by the engineer. See sheets 3, 4 & 5 for bridge crossing details.
- The contractor shall remove and dispose of the existing bridge rails on the Forks Creek and Herring Bay bridges. Payment for this work shall be included under item 606(4) "Removal & Disposal of Guardrail".
- Station 169+25 to 173+25, the approximate ⁷600 cubic yards of Rip Rap shall be installed to the line, grade and minimum thickness of 2' as directed by the engineer.
- Existing guide posts in areas of guardrail installation shall be removed and disposed of as directed by the engineer. Payment for this work shall be considered incidental to item 606(4) "Removal and Disposal of Guardrail" and no separate payment shall be made therefore.

125 L.F. of 50' r.
12.5 L.F. of 15' r.

37.5 L.F. of 15' r.
12.5 L.F. of 50' r.

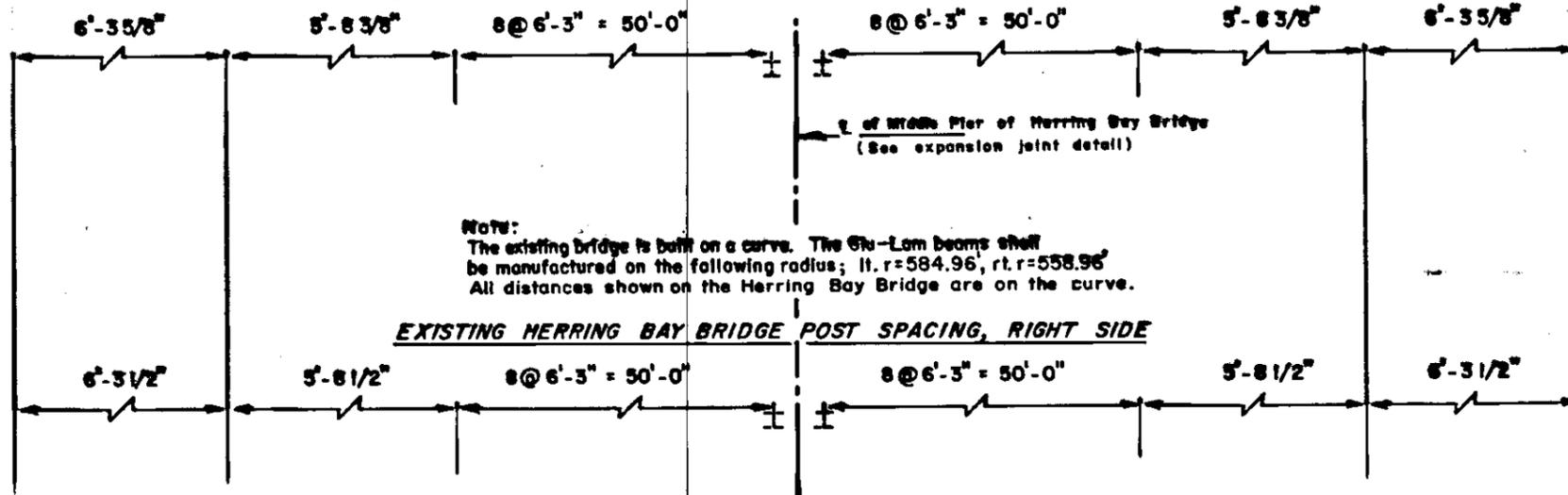
NOTES ;

1. All additional labor and materials needed to install guardrail across the Forks Creek and Herring Bay bridges shall be considered incidental to pay item 606(1) "Beam Type Guardrail, Type I Posts" and no separate payment shall be made therefore.
2. Field cut existing posts on the Forks Creek and Herring Bay bridges as detailed in section A-A. All cuts made on the existing posts shall be ground smooth and painted in accordance with section 606-3.02 of Alaska Standard Specifications for Highway Construction.
3. All "Glu-Lam" timbers and spacer blocks shall be treated with pentachloro phenol in a light oil solution in accordance with latest standards of the American Wood Preservers Association.
4. All bolt holes and countersinking shall be done before "Glu-Lam" timbers and spacer blocks are treated.
5. All hardware used in the installation of the guardrail and supporting structure shall be galvanized and conform to AA SHO M-180.

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RS-0902(5)	1976	3	5

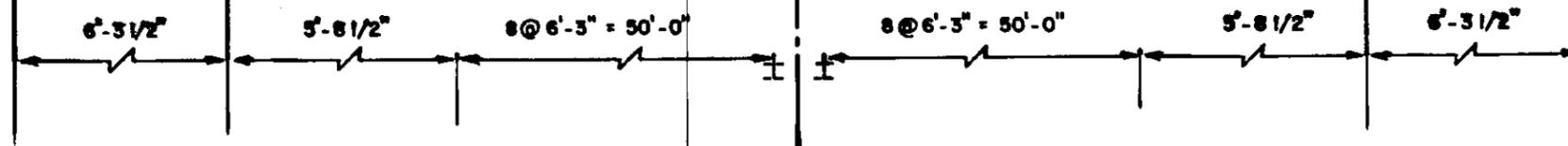
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RS-0902 (5)	1976	4	5

EXISTING HERRING BAY BRIDGE POST SPACING, LEFT SIDE

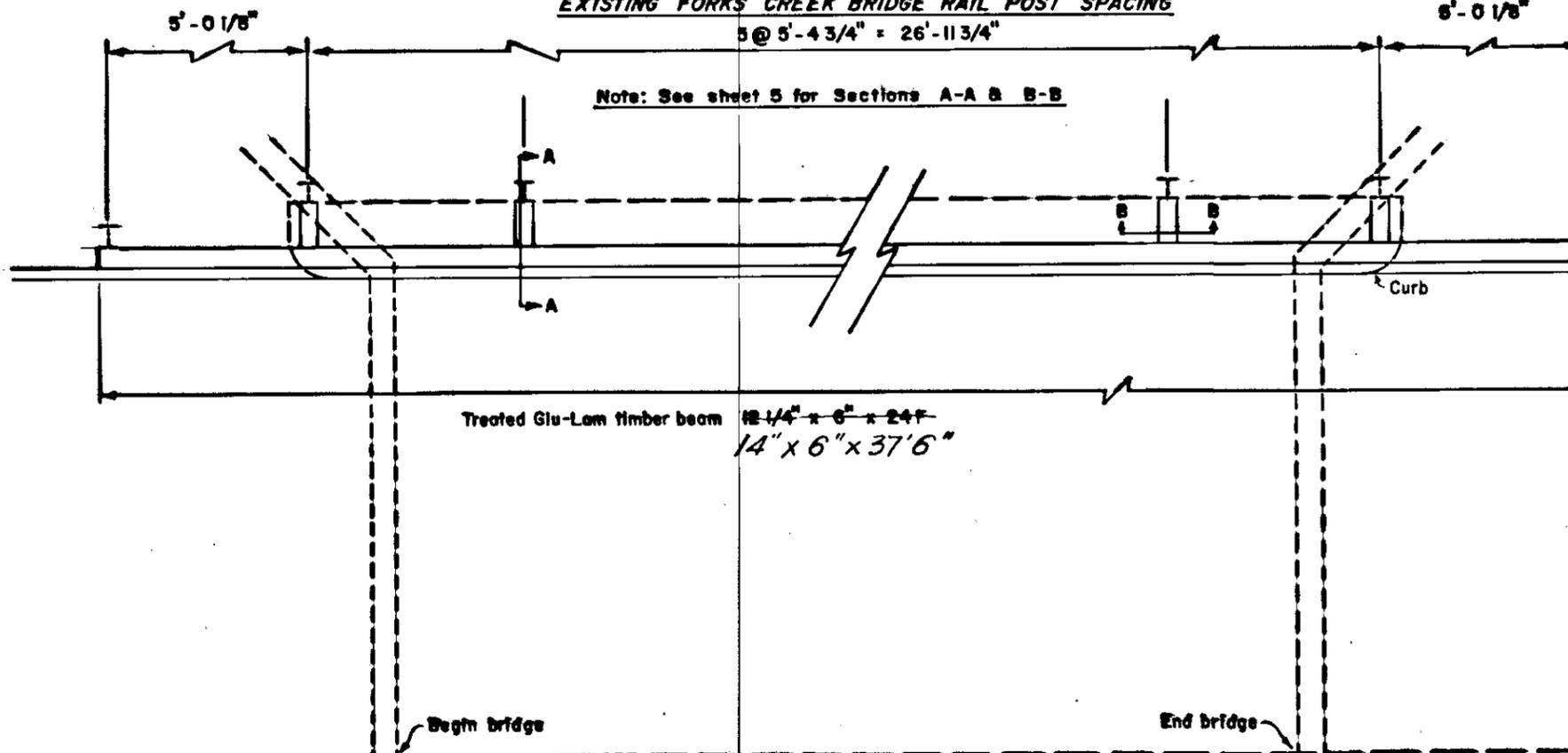


NOTE:
The existing bridge is built on a curve. The Glu-Lam beams shall be manufactured on the following radius; lt. r=584.96', rt. r=558.96'. All distances shown on the Herring Bay Bridge are on the curve.

EXISTING HERRING BAY BRIDGE POST SPACING, RIGHT SIDE



EXISTING FORKS CREEK BRIDGE RAIL POST SPACING

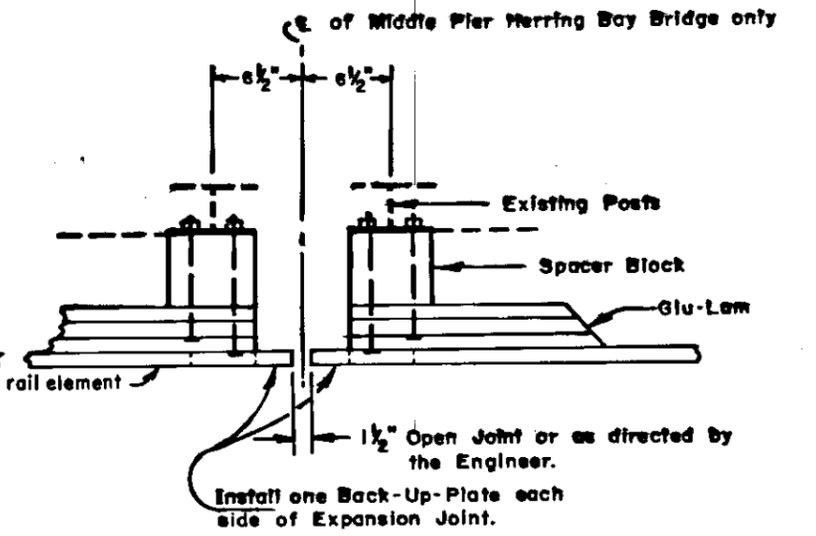


Note: See sheet 5 for Sections A-A & B-B

Treated Glu-Lam timber beam 12 1/4" x 6" x 24'F
14" x 6" x 37'6"

Symmetrical about C
(Vert. Elev. of Curb not symmetrical)

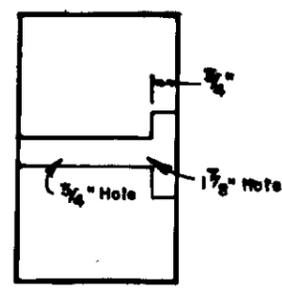
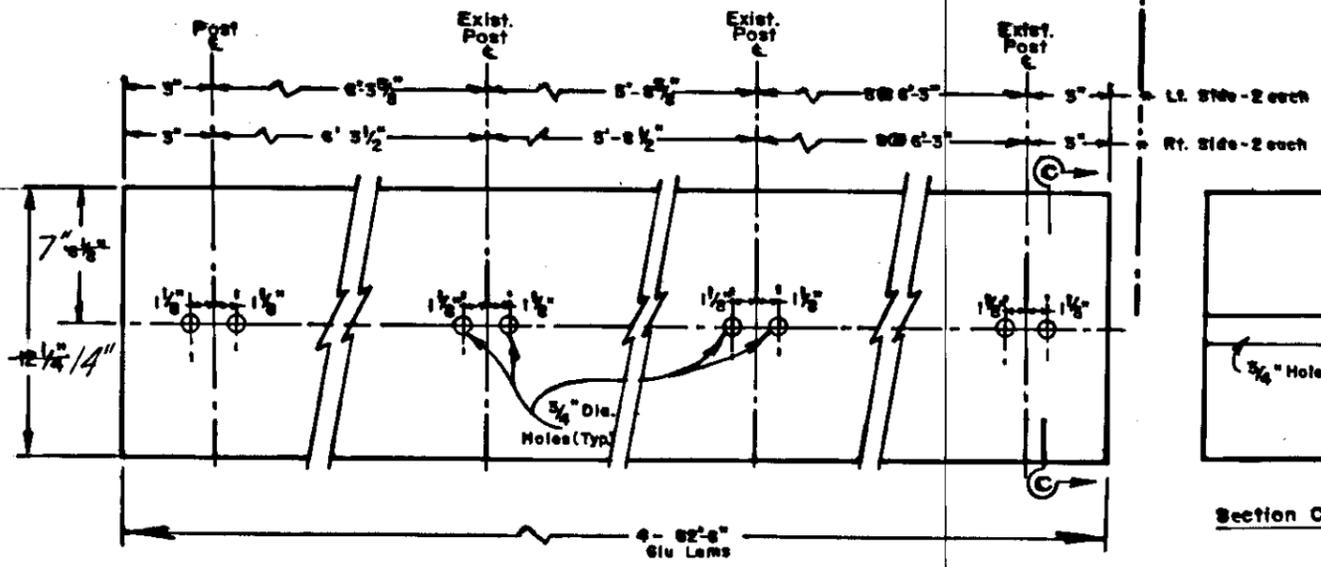
PLAN VIEW



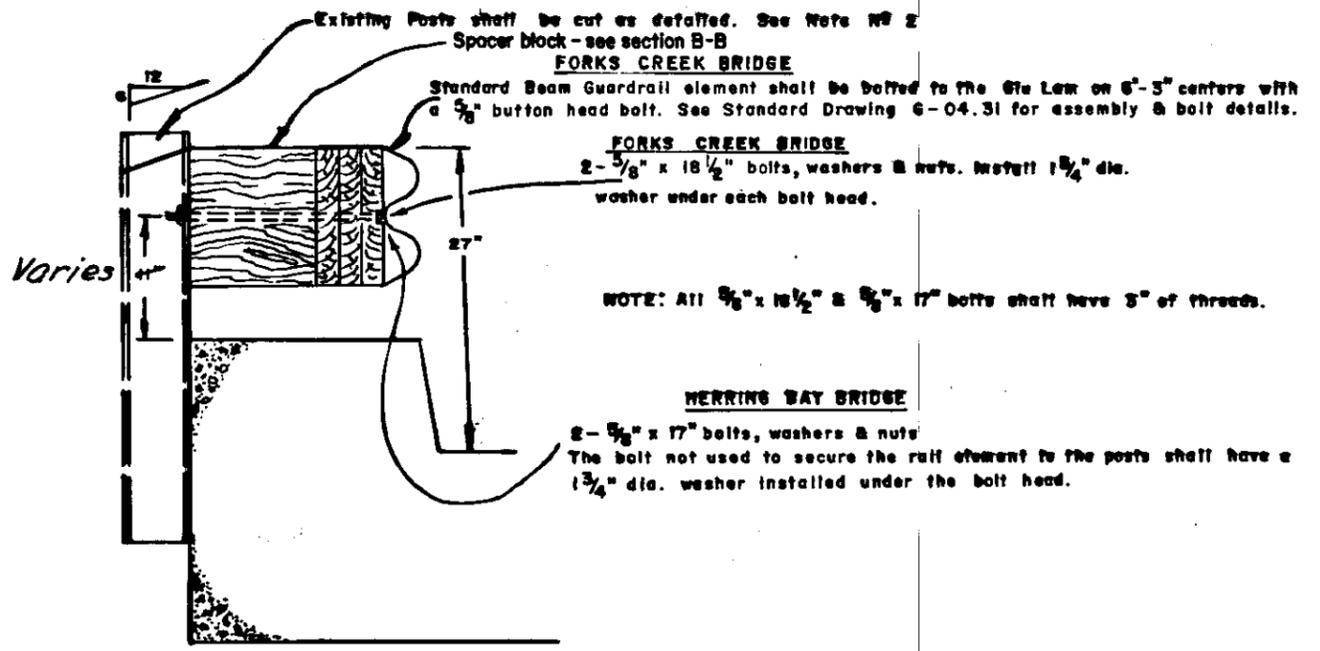
EXPANSION JOINT DETAIL

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	RS-0902 (5)	1976	5	5

HERRING BAY BRIDGE

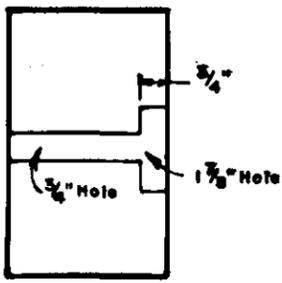
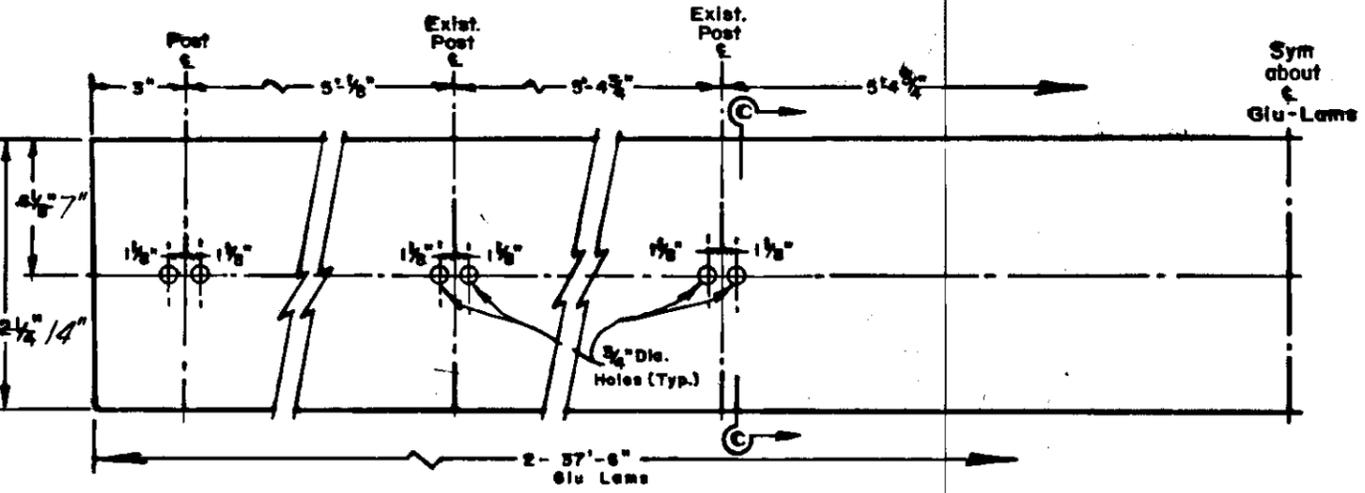


Section C-C

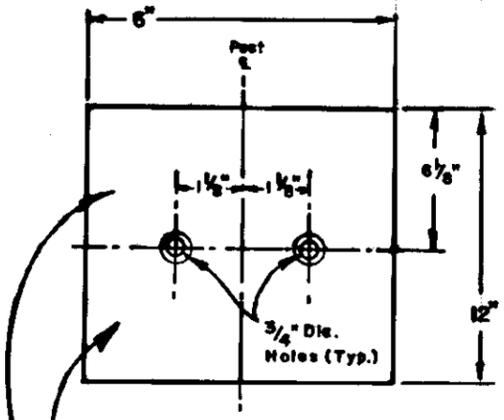


Section A-A (see sheet 4)

FORKS CREEK BRIDGE



Section C-C



FORKS CREEK BRIDGE 12-12"x6"x11 1/4" Treated Timber Spacer Block, #1 or Treated Timber Glu Lam, 18 F
HERRING BAY BRIDGE 40-12"x6"x9 1/4" Treated Timber Spacer Block, #1 or Treated Timber Glu Lam, 18 F

Section B-B (see sheet 4)