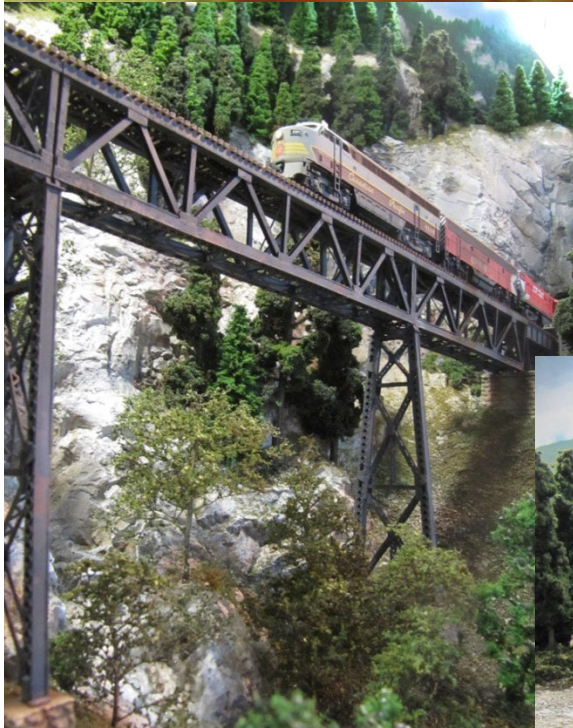
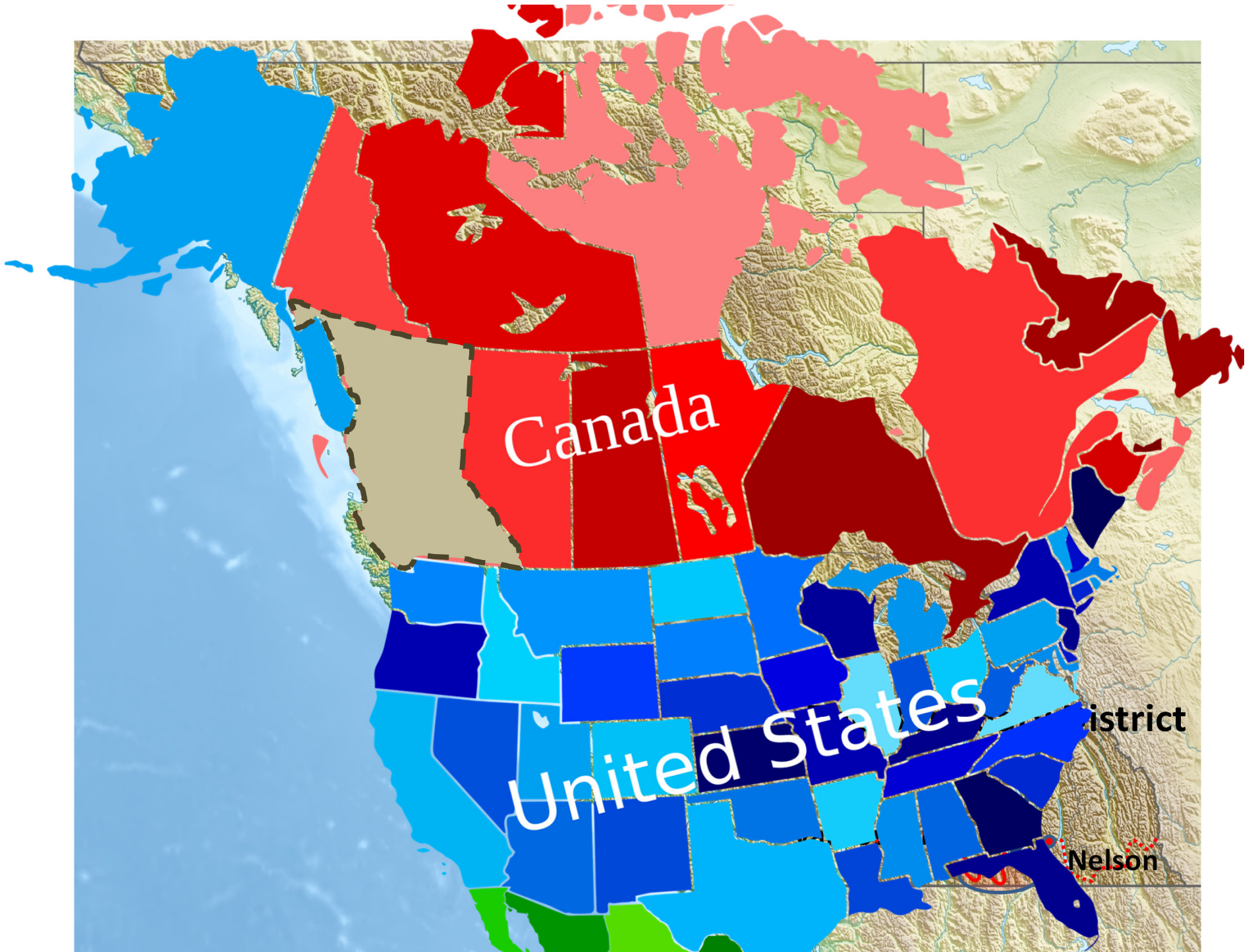


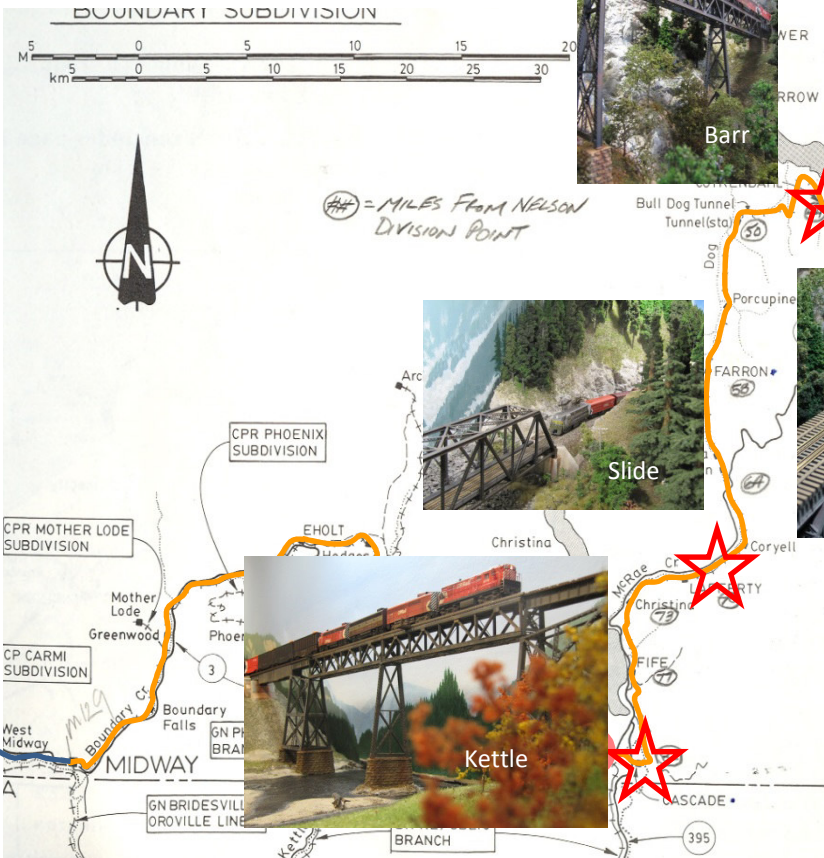
8 Bridges for the Boundary

Big Bridges in a Small Scale

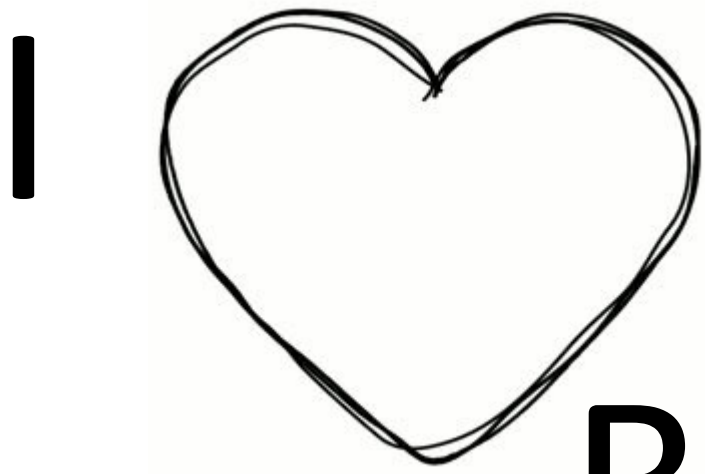




Significant Bridges on The CPR's Boundary Subdivision

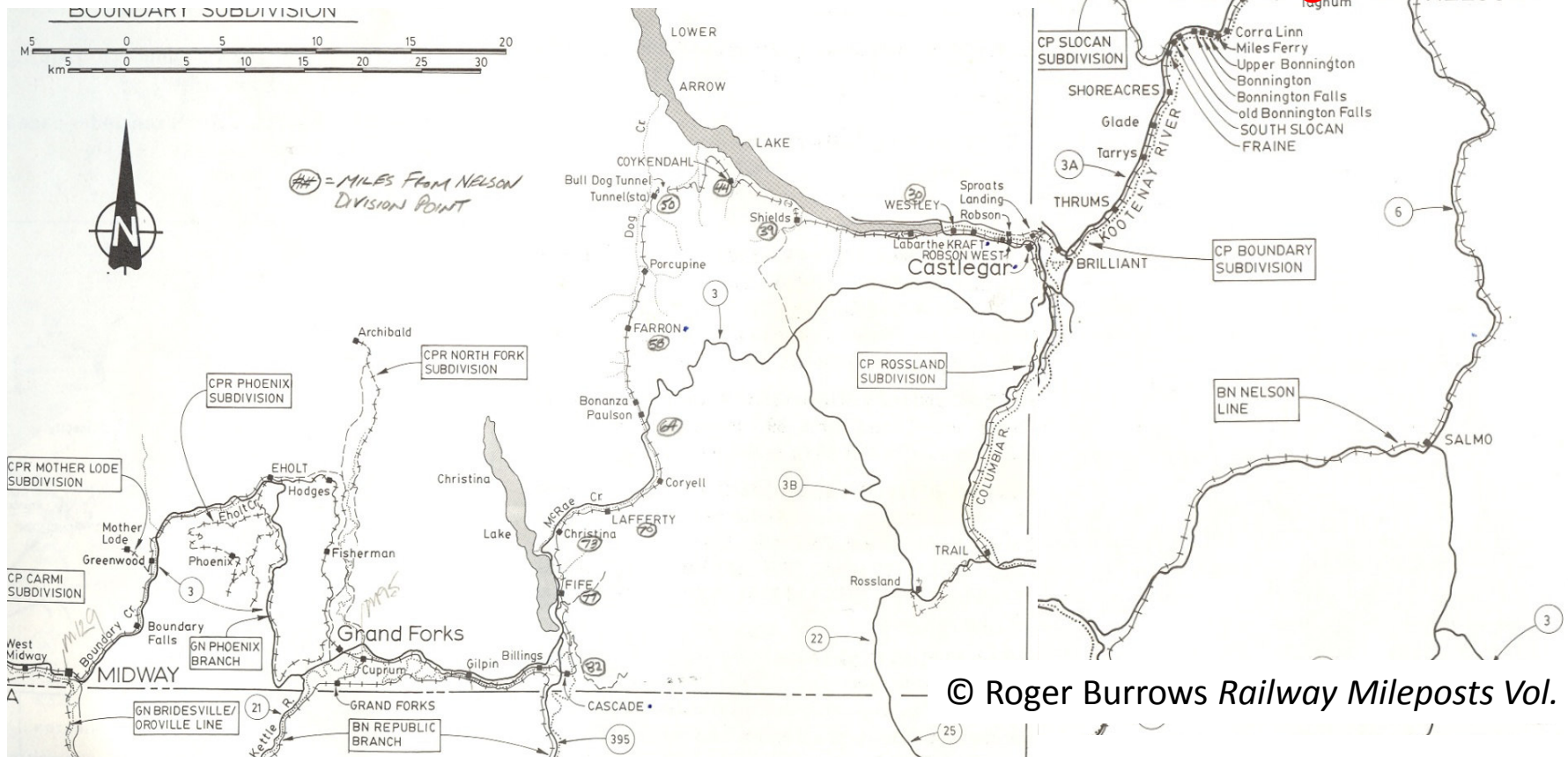
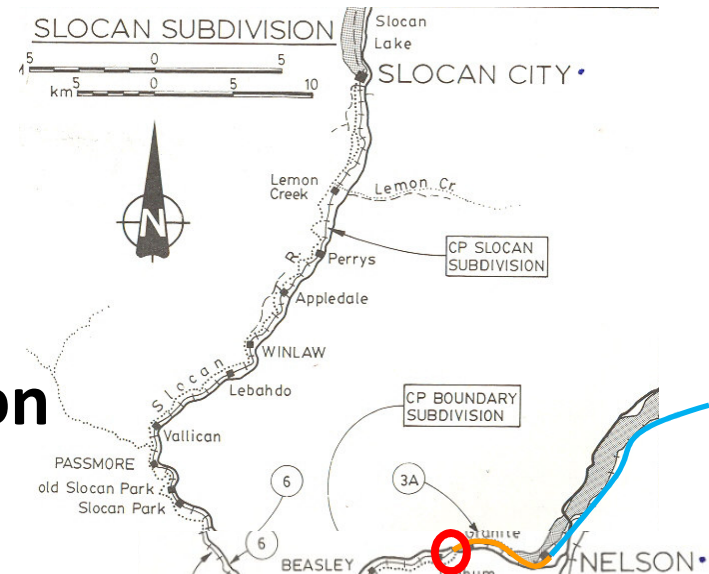


**10 Bridges totalling nearly 4000'
That's 25' of bridges in N scale!**



Bridges!

Significant Bridges on The CPR's Boundary Subdivision



4th Crossing of the Kootenay

MP4.0 of the Boundary Sub

763' Long

157' Through Truss, 7 Half-Deck PG Bridges,

1 DPG Bridge and 2 Islands!

Model is scaled down 50% but mostly through
selective omission



2008-03-30 8:26:17 AM - M. Novak - Taghum BC, Canada

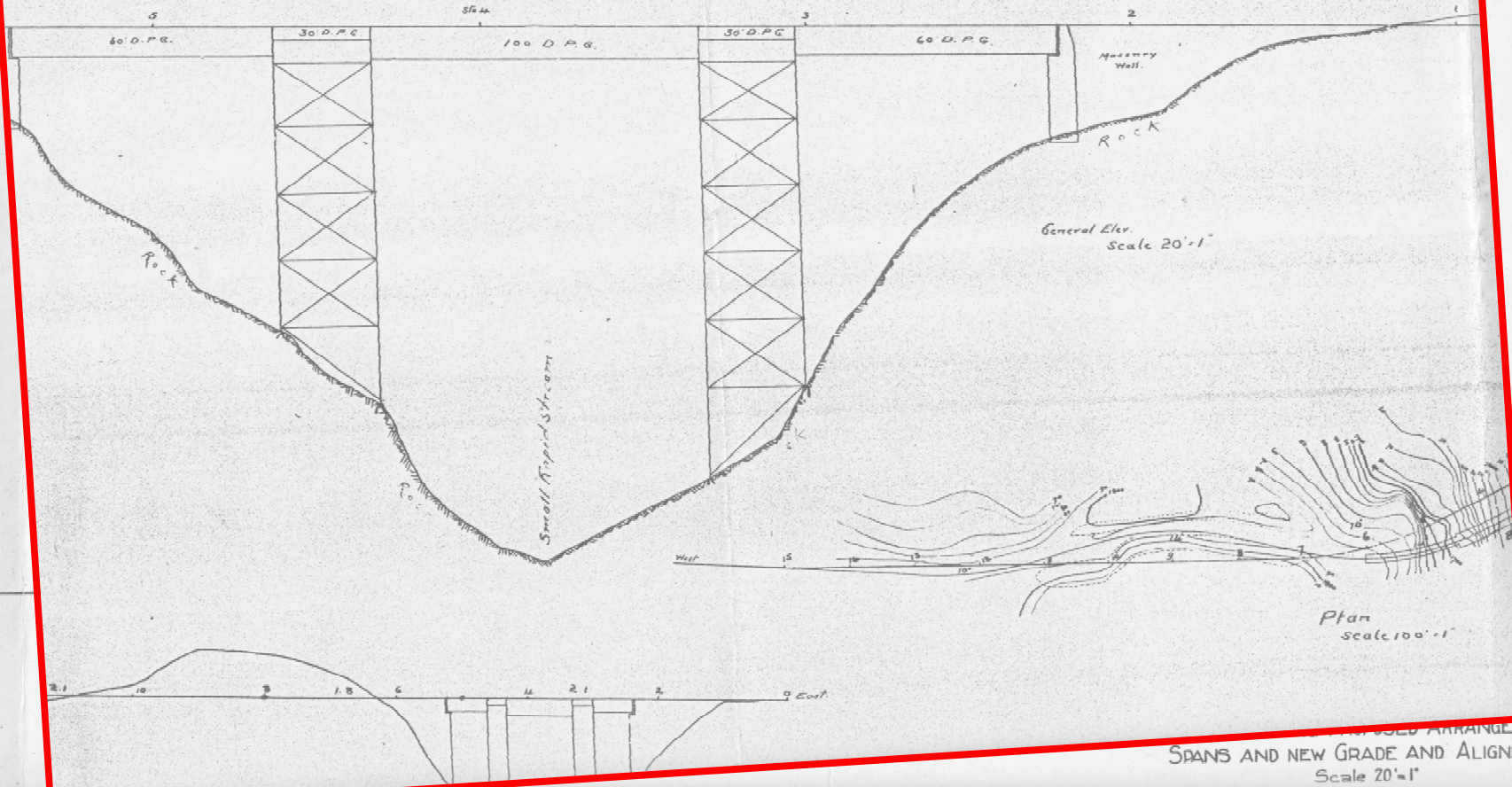


4th Crossing of the Kootenay River

Photo by Matthew Hicks

Plans!

C.P.R.
BRIDGE 36.4 - BOUNDARY SECTION
PROPOSED REPLACEMENT ON IMPROVED
ALIGNMENT



Kootenay River Bridge in progress

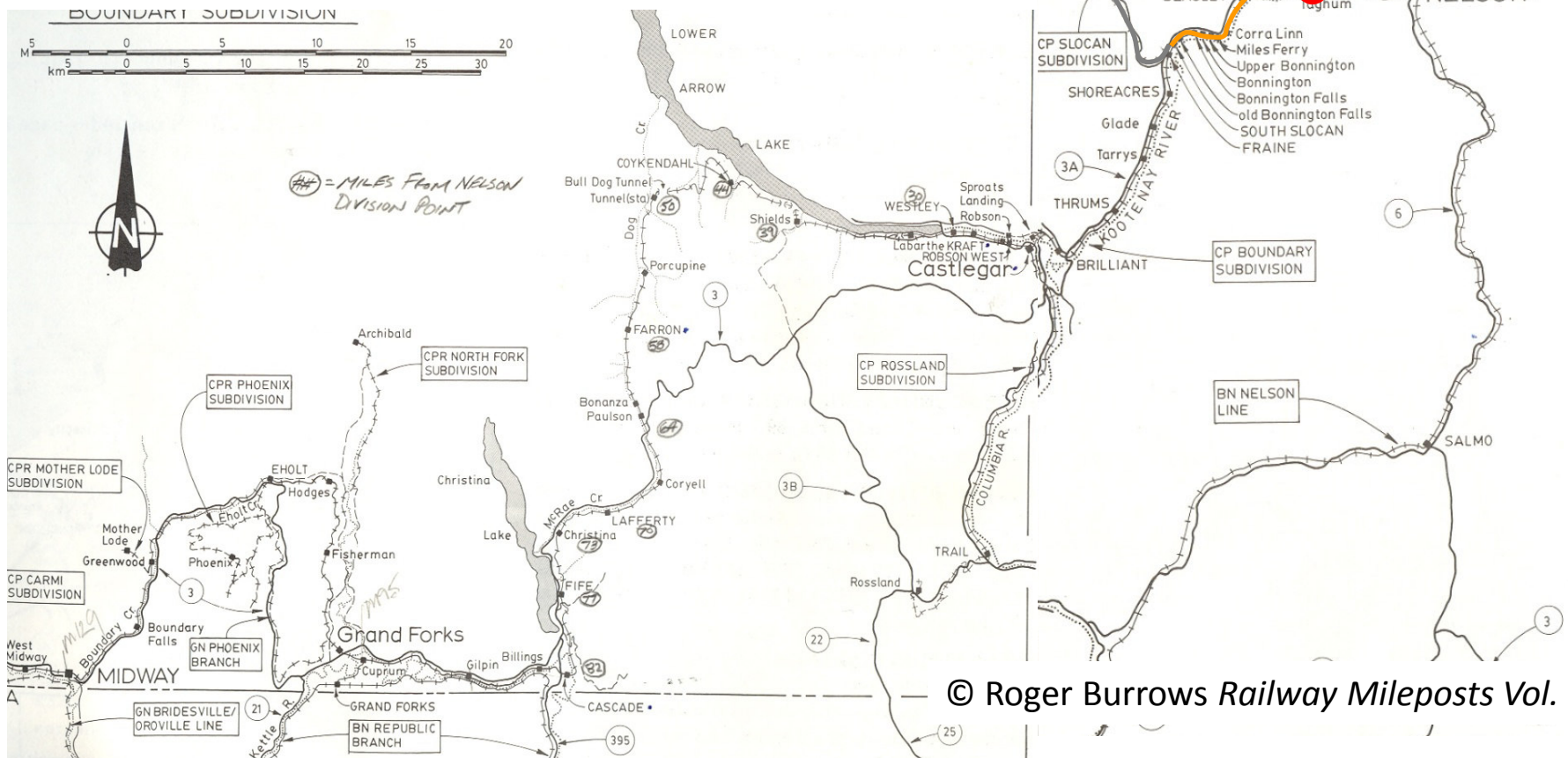
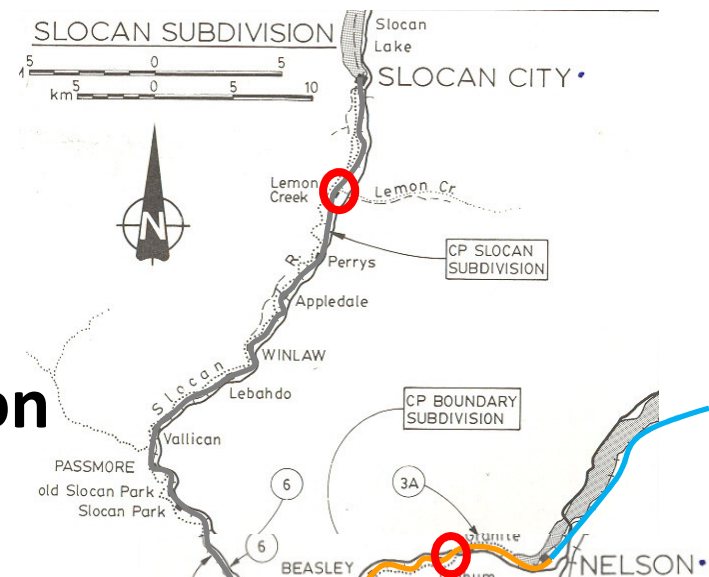




← ~3 1/2' →



Significant Bridges on The CPR's Boundary Subdivision



Lemon Creek

MP26.4 of the Slocan Sub

110' long through Pony Truss bridge

Model is scaled 100% of full size

LEMON CR. BRIDGE Mi 26.2 Slocan Sub. Sept 2007 Photo by; Scott Calvert



Lemon Creek



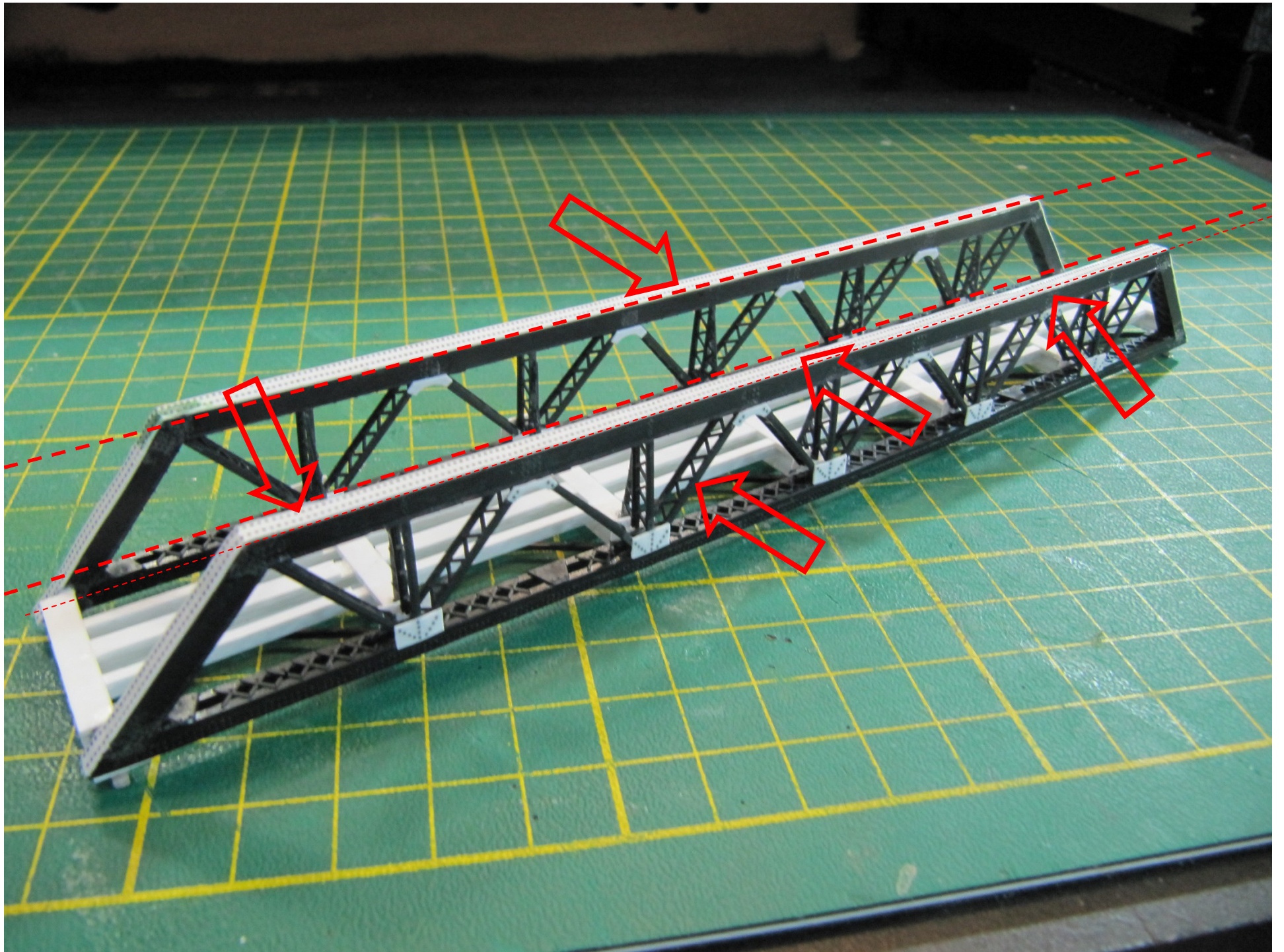
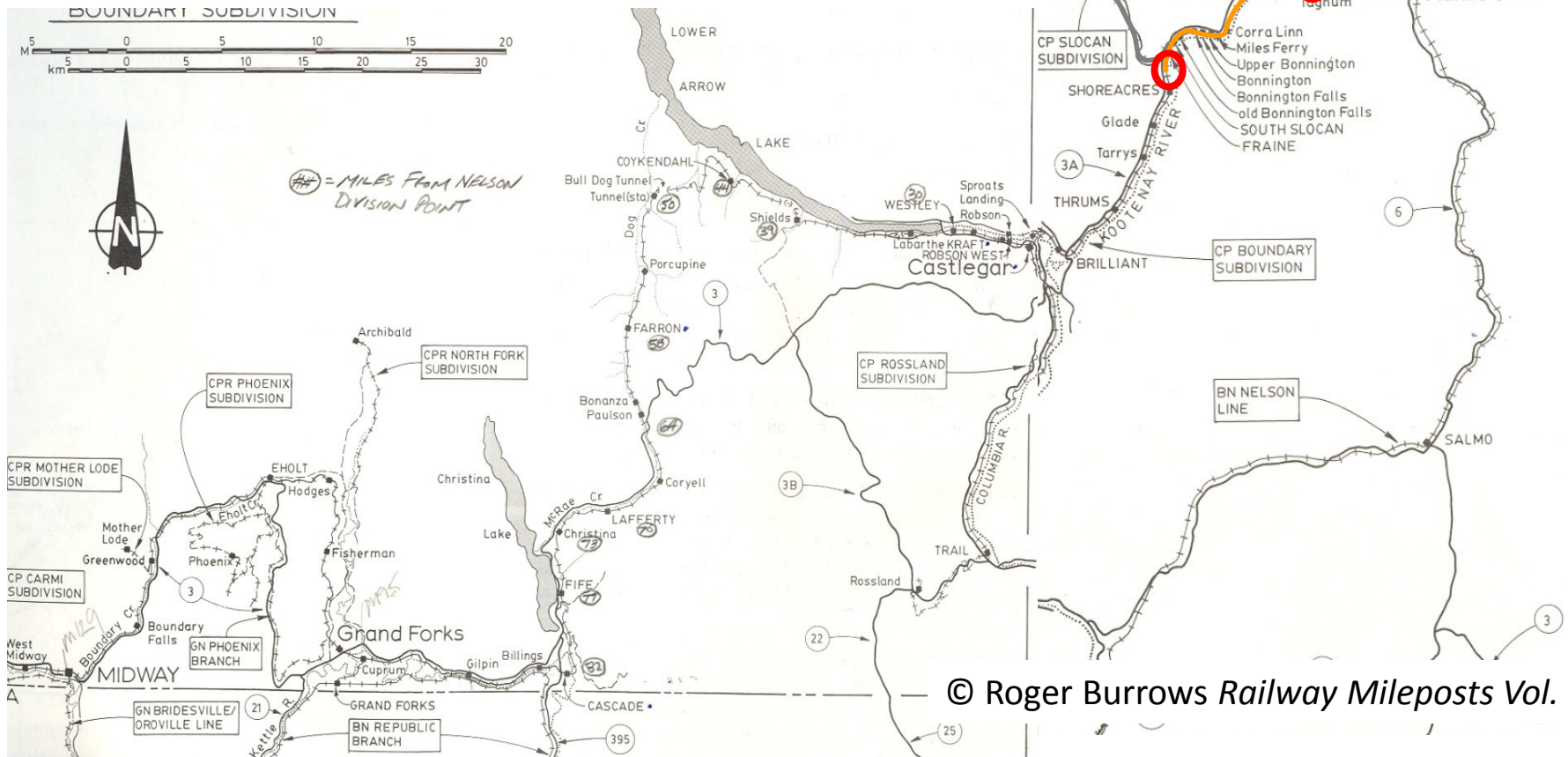
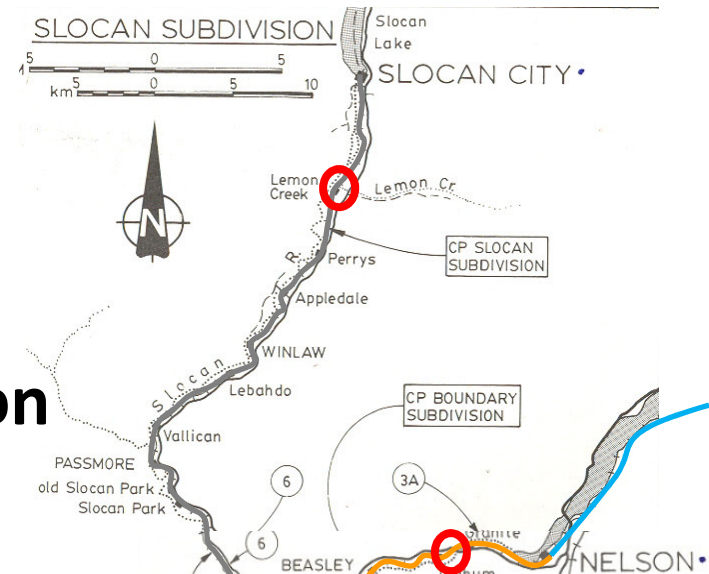






Photo by Tim Horton

Significant Bridges on The CPR's Boundary Subdivision



Slocan River

MP14.6 of the Boundary Sub

332' long x 69' High

Comprises east to west:

- 1 x 85' long deck plate girder bridges
 - 1 x 157' long deck truss bridge
- 1 x 85' long deck plate girder bridge
- Model is scaled down to 60% of full size

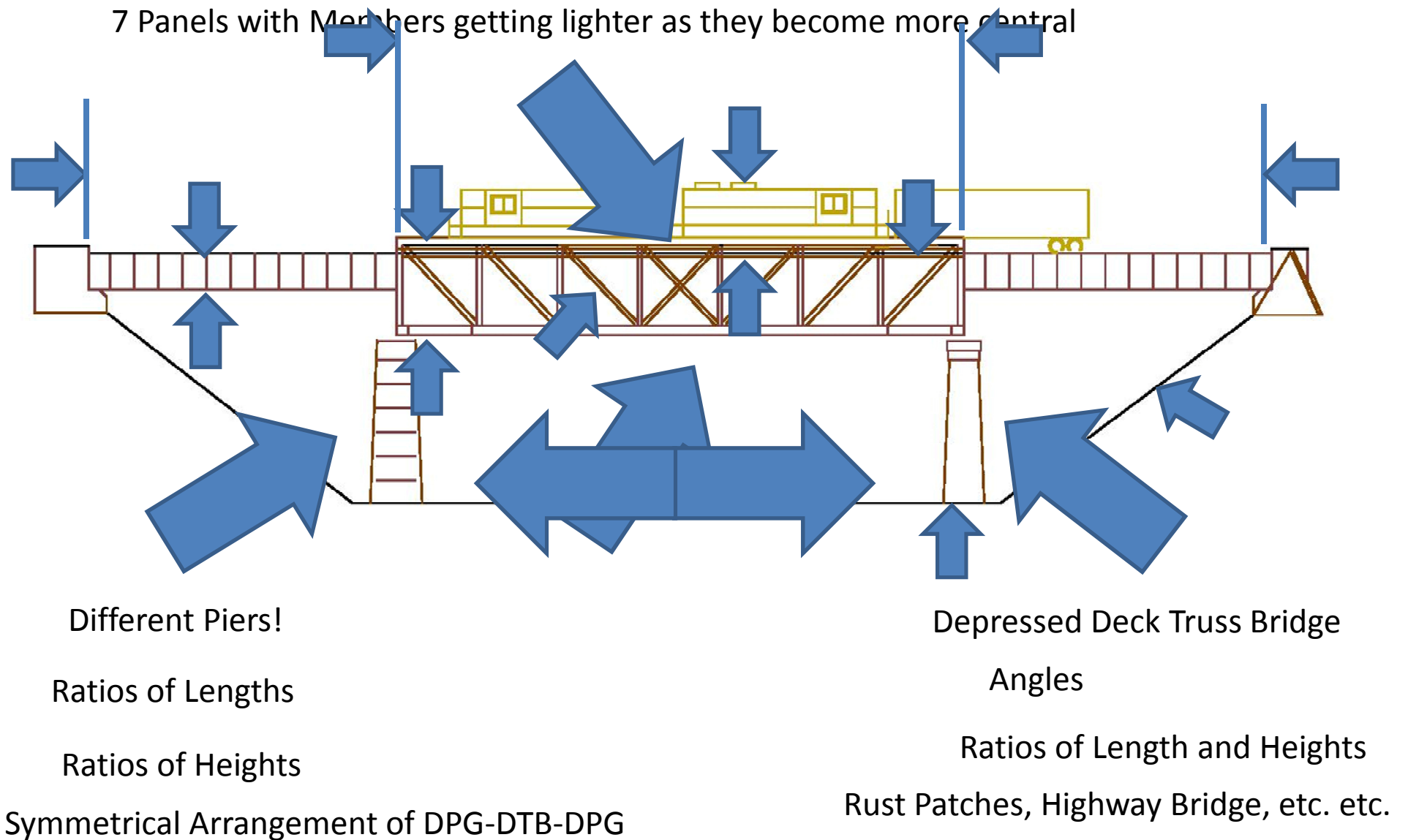


Slocan River

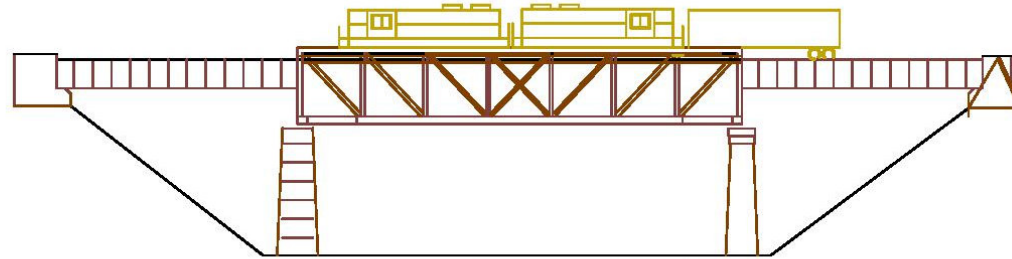
Photo by Matthew Hicks

Compression Test!

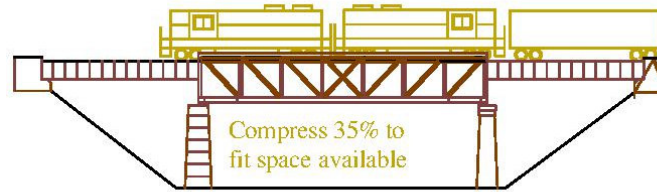
Key Characteristics (Spotting Features)



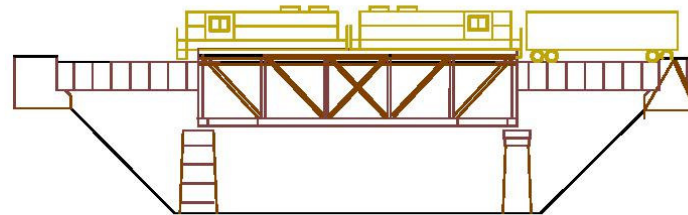
**Selective Compression
Options!**



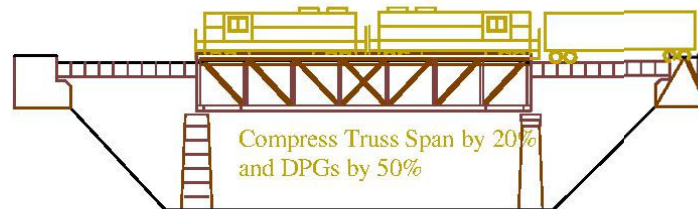
Prototype 332' long x 69' high



Option a) Uniform Compression

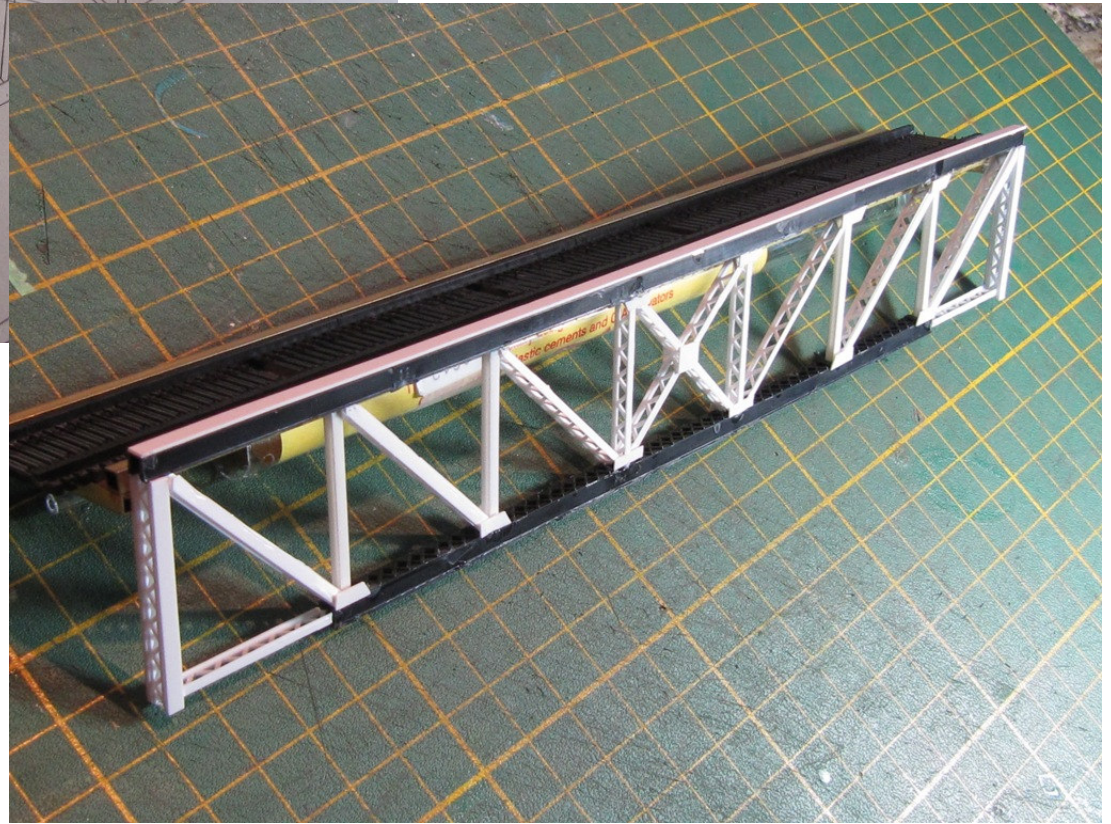
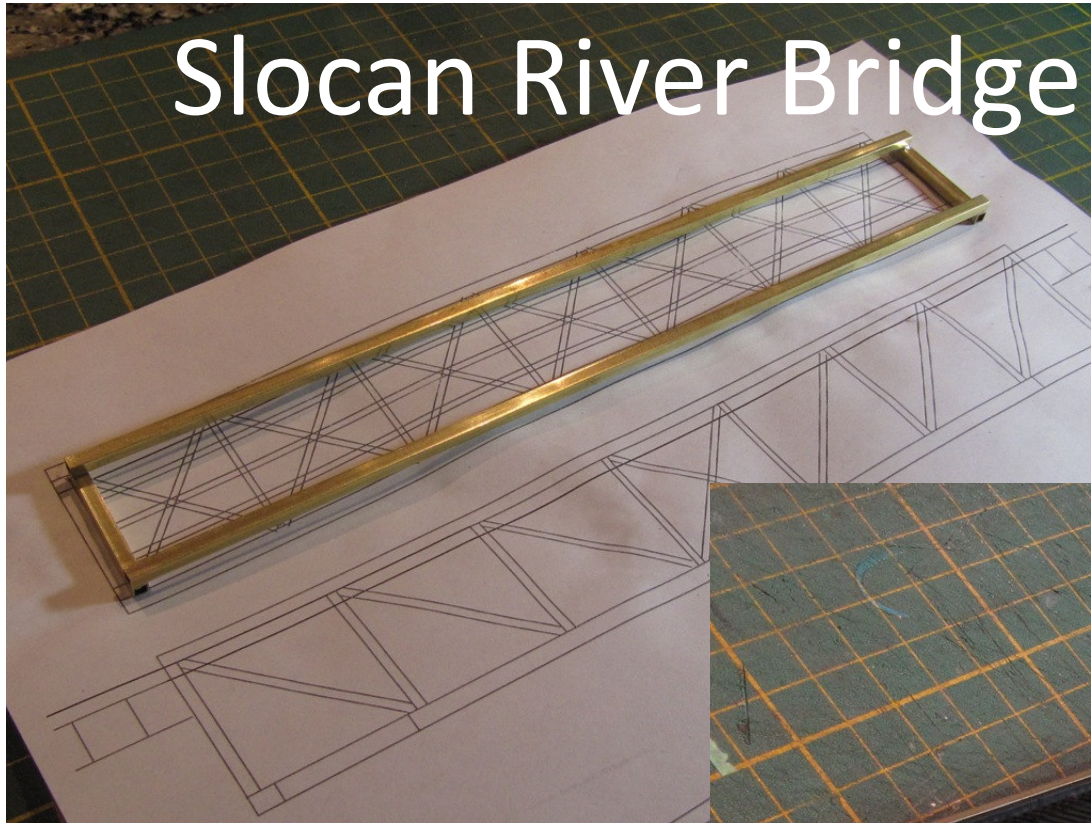


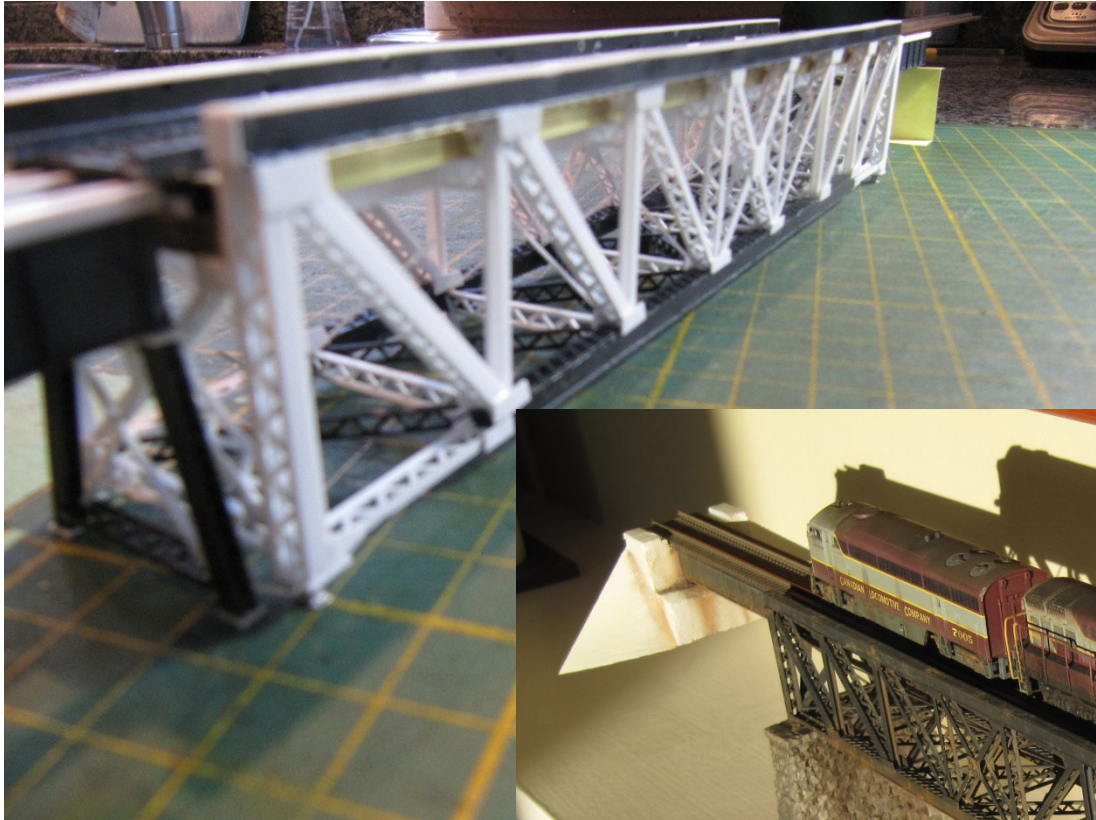
Option b) Selective Omission of Panels to Maintain the Bridge Depth



Option c) Non Uniform Compression

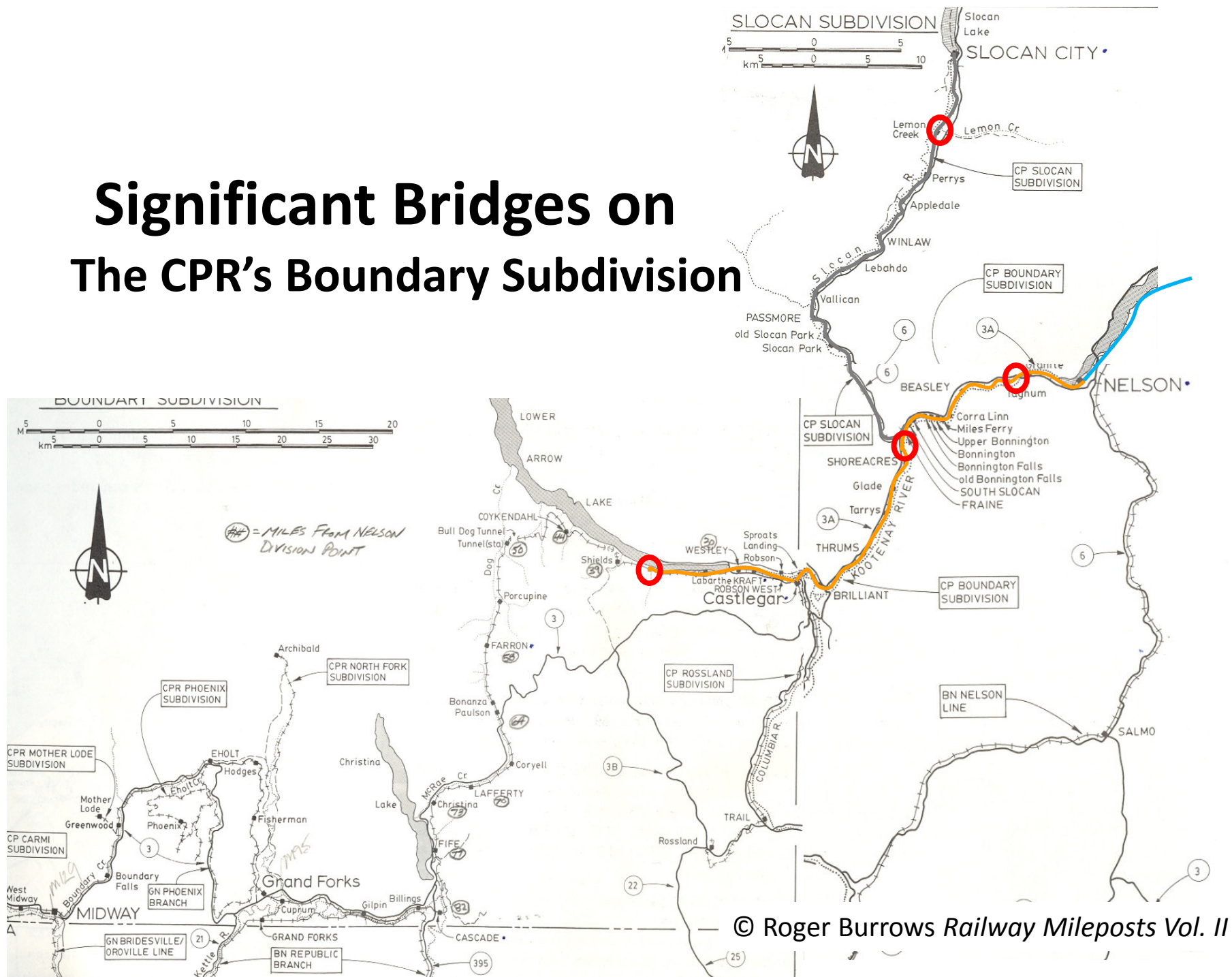
Slocan River Bridge in progress







Significant Bridges on The CPR's Boundary Subdivision



McCormack Creek

MP36.1 of the Boundary Sub

410' long x 190' High

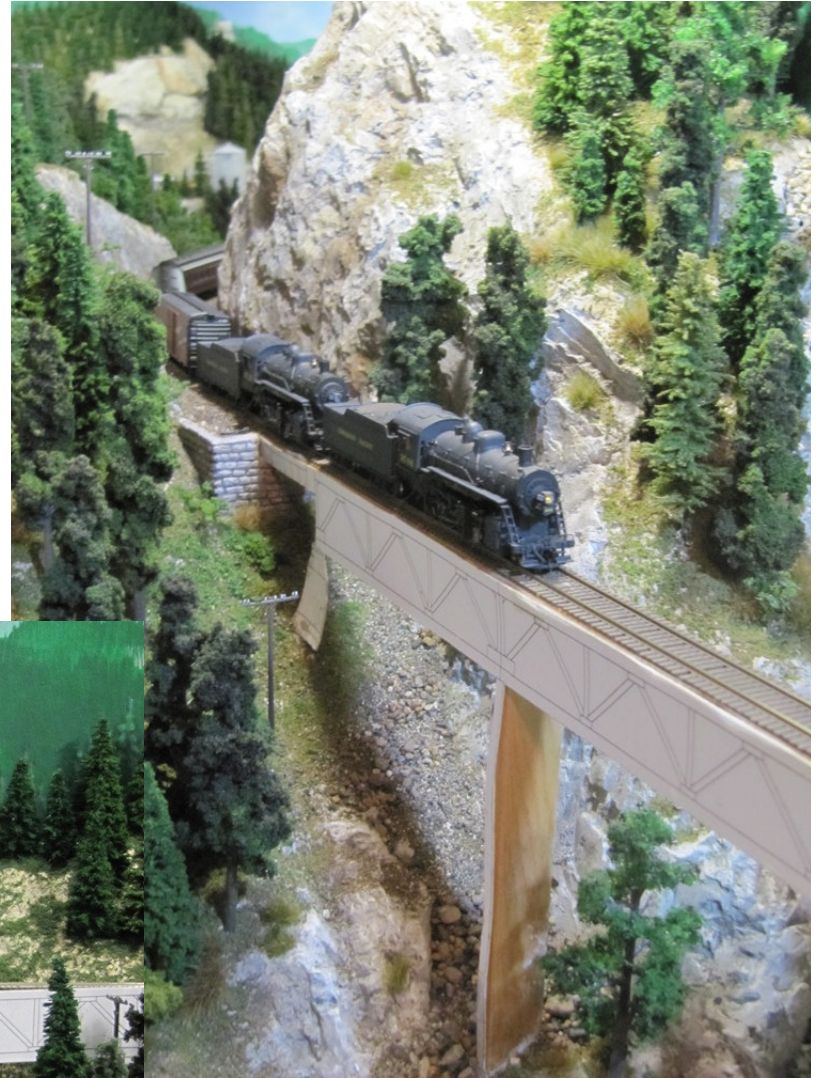
Comprises east to west:

- 2 x 80' long deck plate girder bridges
 - 3 x 85' long deck truss bridges
- Model is scaled down from 70% of full size

A long wooden trestle bridge spans a deep valley. The bridge is constructed with dark wood and features a complex truss structure of metal beams. The surrounding landscape is filled with dense evergreen forests on steep hillsides. The foreground shows some blurred green foliage and dry grass. The sky is bright and clear.

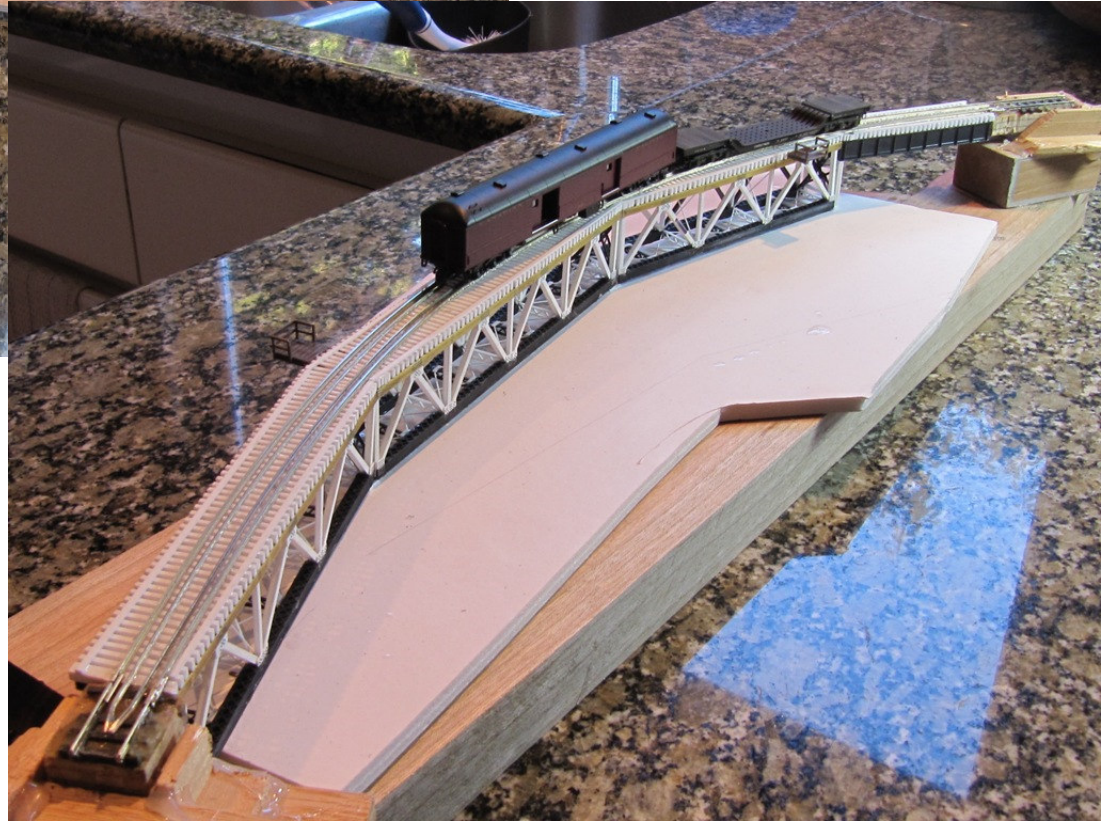
McCormack Creek

Photo by Al Reynish



**Mock Ups and
Stand-Ins!**

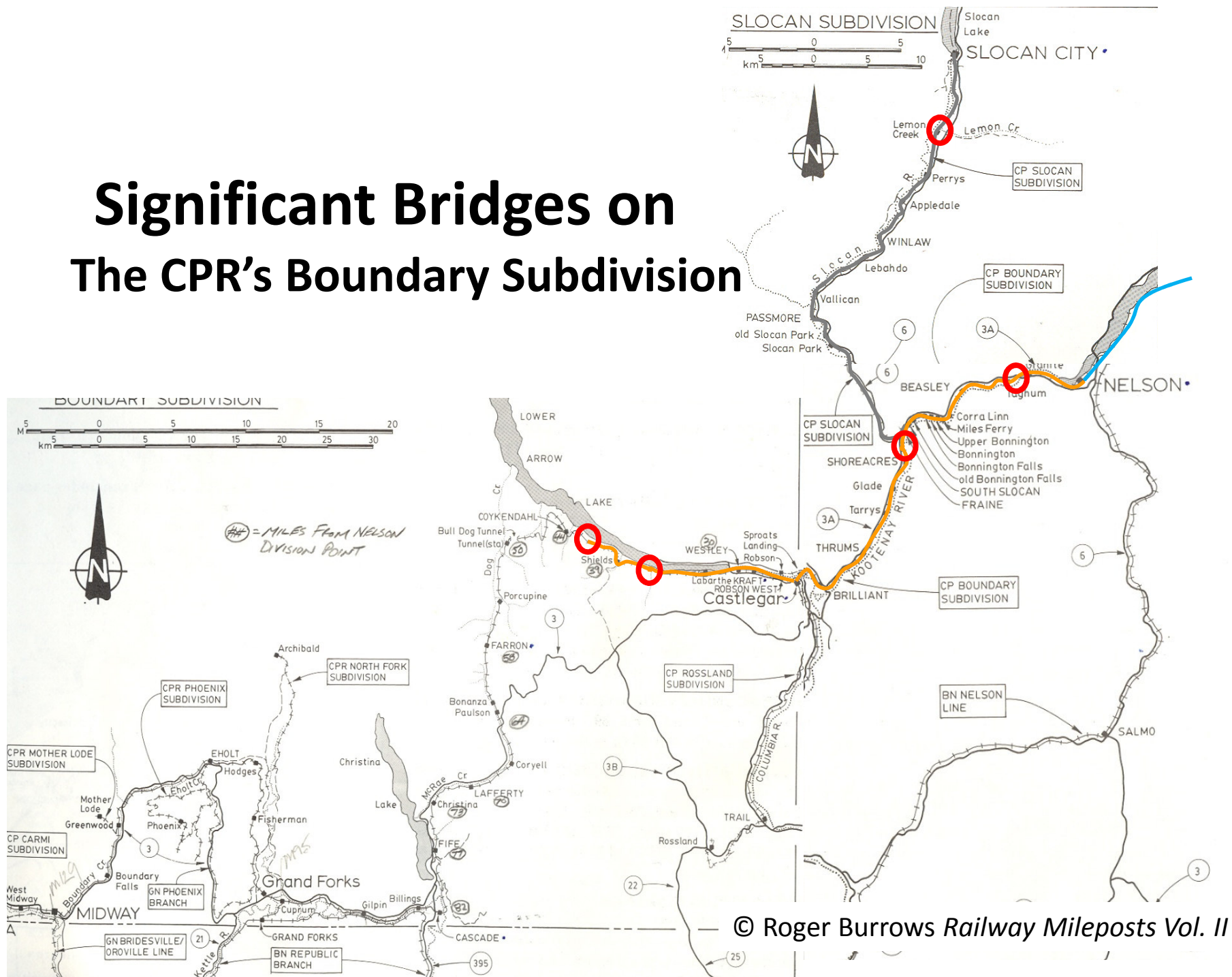
McCormack Creek Bridge in progress







Significant Bridges on The CPR's Boundary Subdivision



Farr Creek

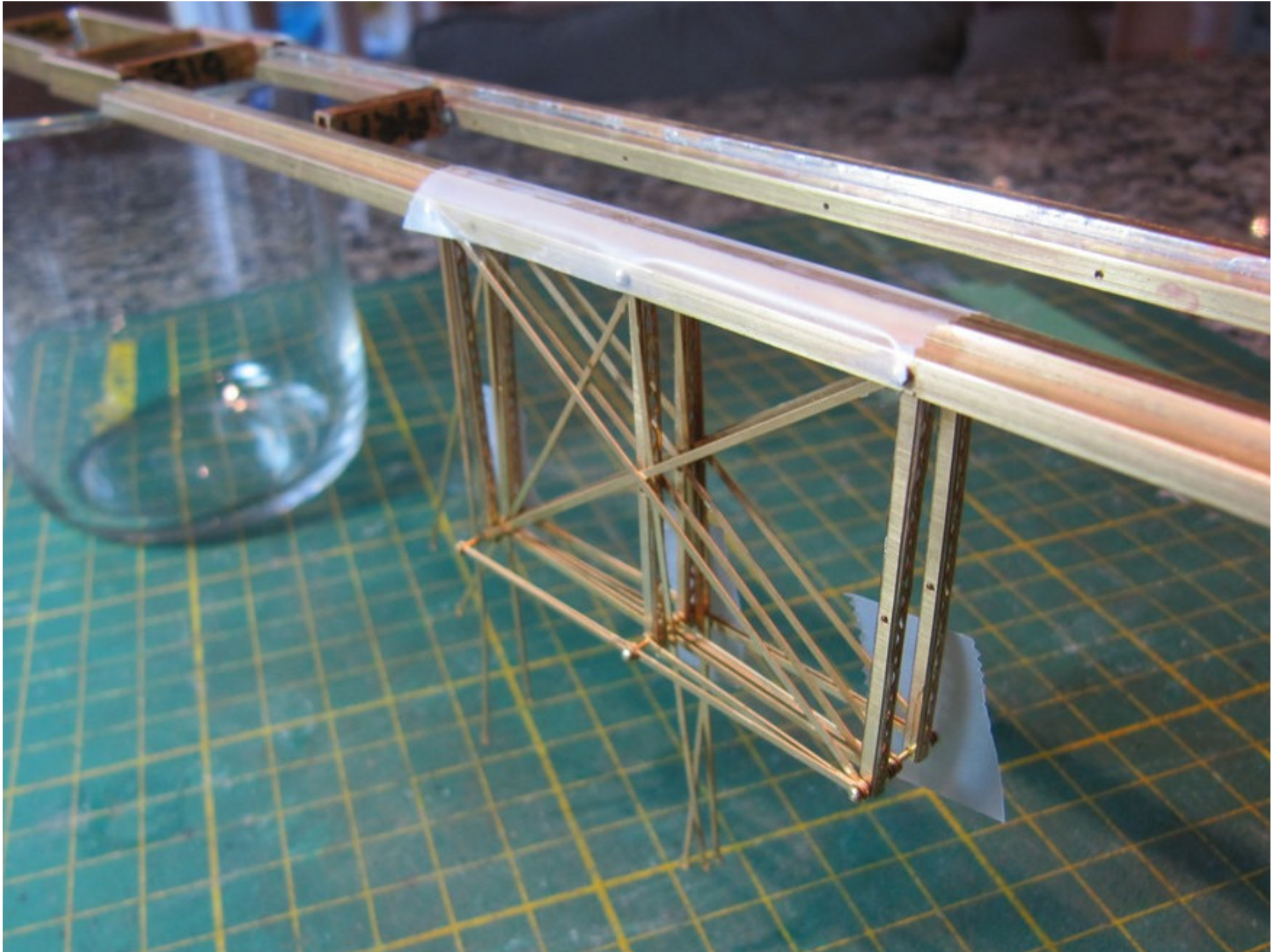
MP41.1 of the Boundary Sub

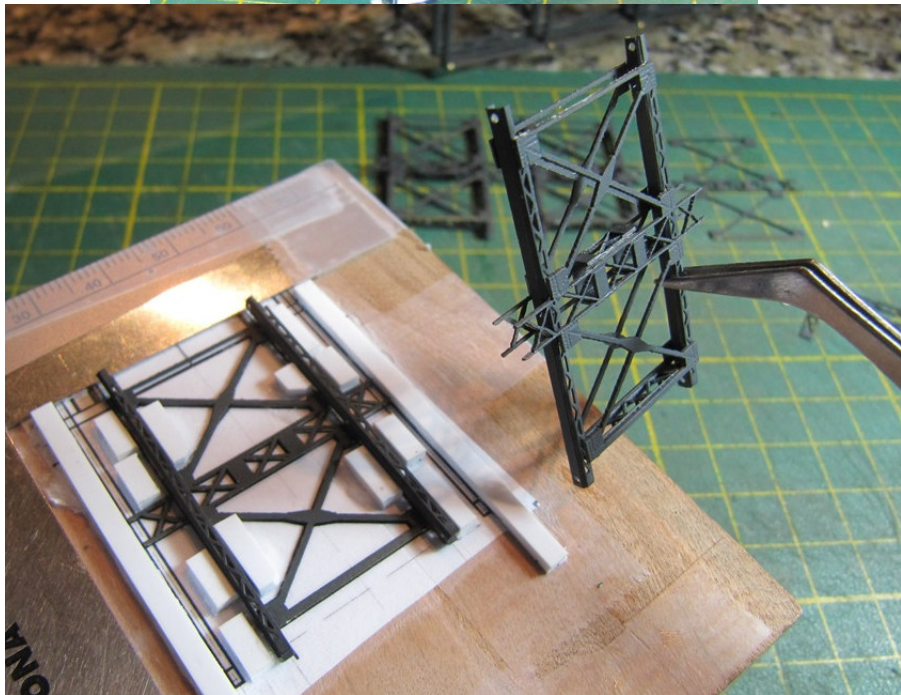
335' long pin connected truss bridge

- Originally located across the Bow River in Calgary east of Alyth
- Model is scaled down from 70% of full size



Farr Creek
Photo by Scott Calvert

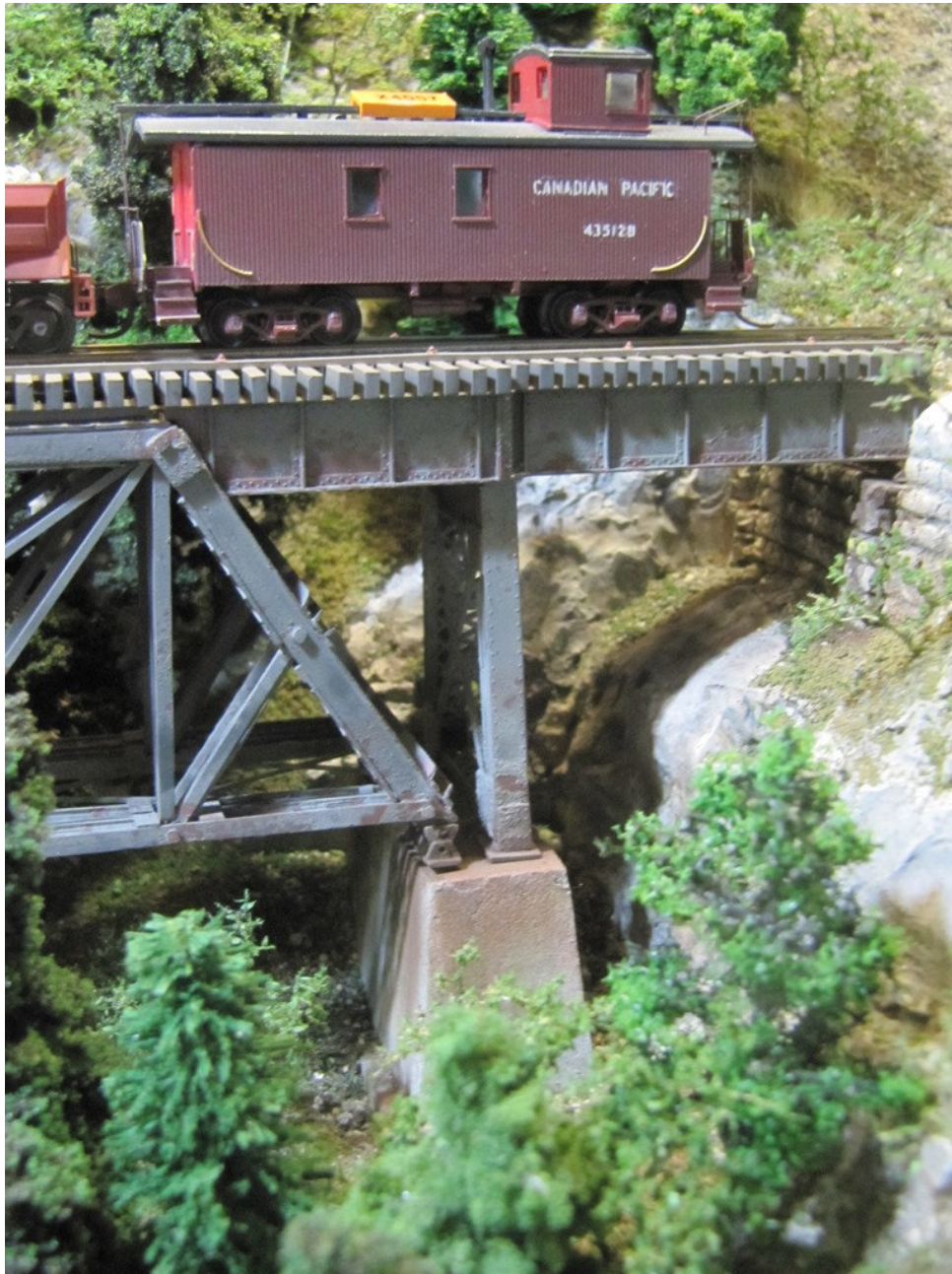












Salt Technique Weathering

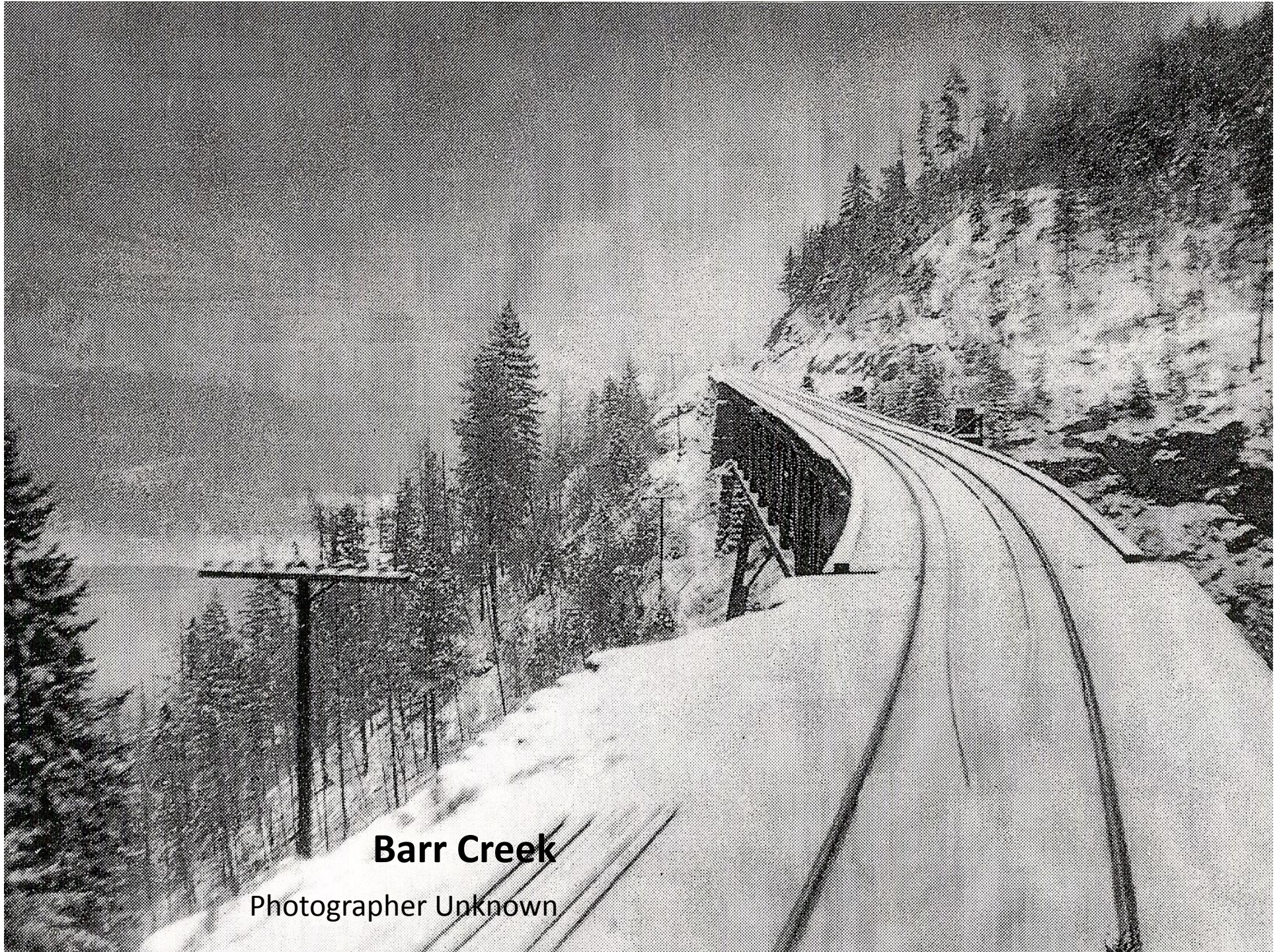
Barr Creek

MP41.7 of the Boundary Sub

410' long x 190' High

Comprises east to west:

- 2 x 80' long deck plate girder bridges
 - 3 x 85' long deck truss bridges



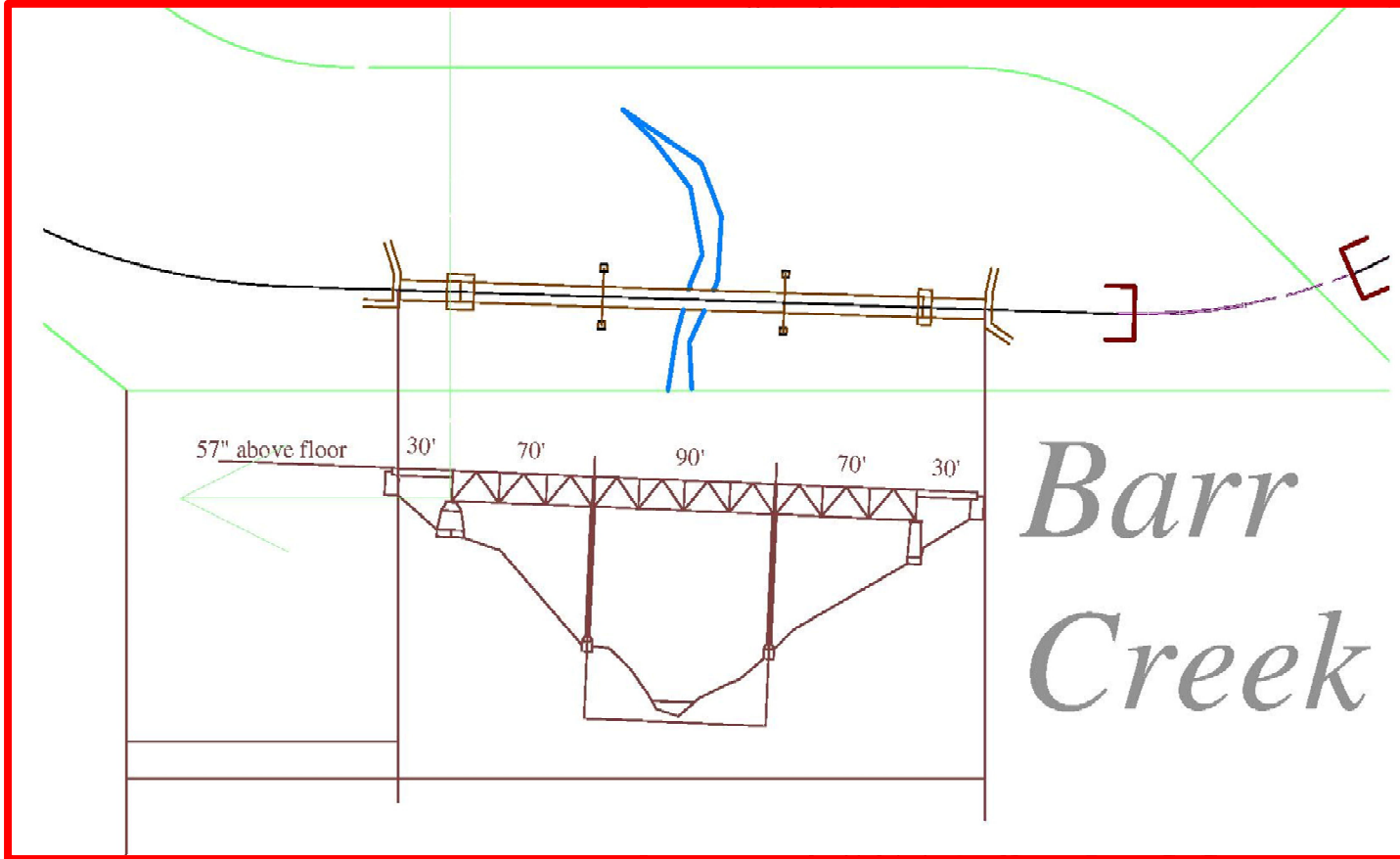
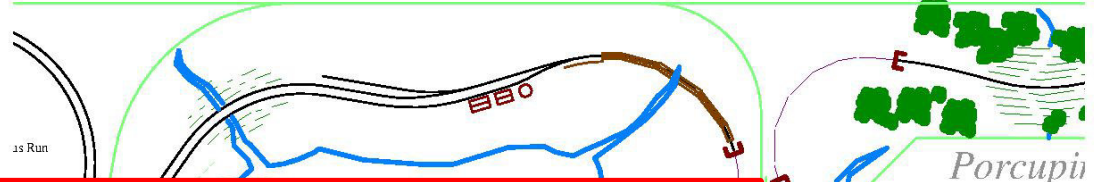
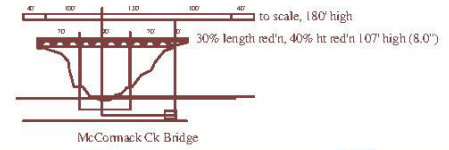
Barr Creek

Photographer Unknown

Barr Creek Bridge in progress



3 to Continuous run at Troup JN
Storage

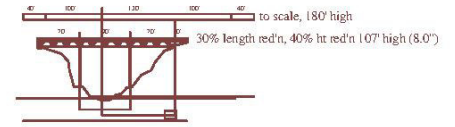


Exit Gate

Grass Creek

Coykendahl

s to Continuous run at Troup JN
Storage



Grass Creek

Coykendahl

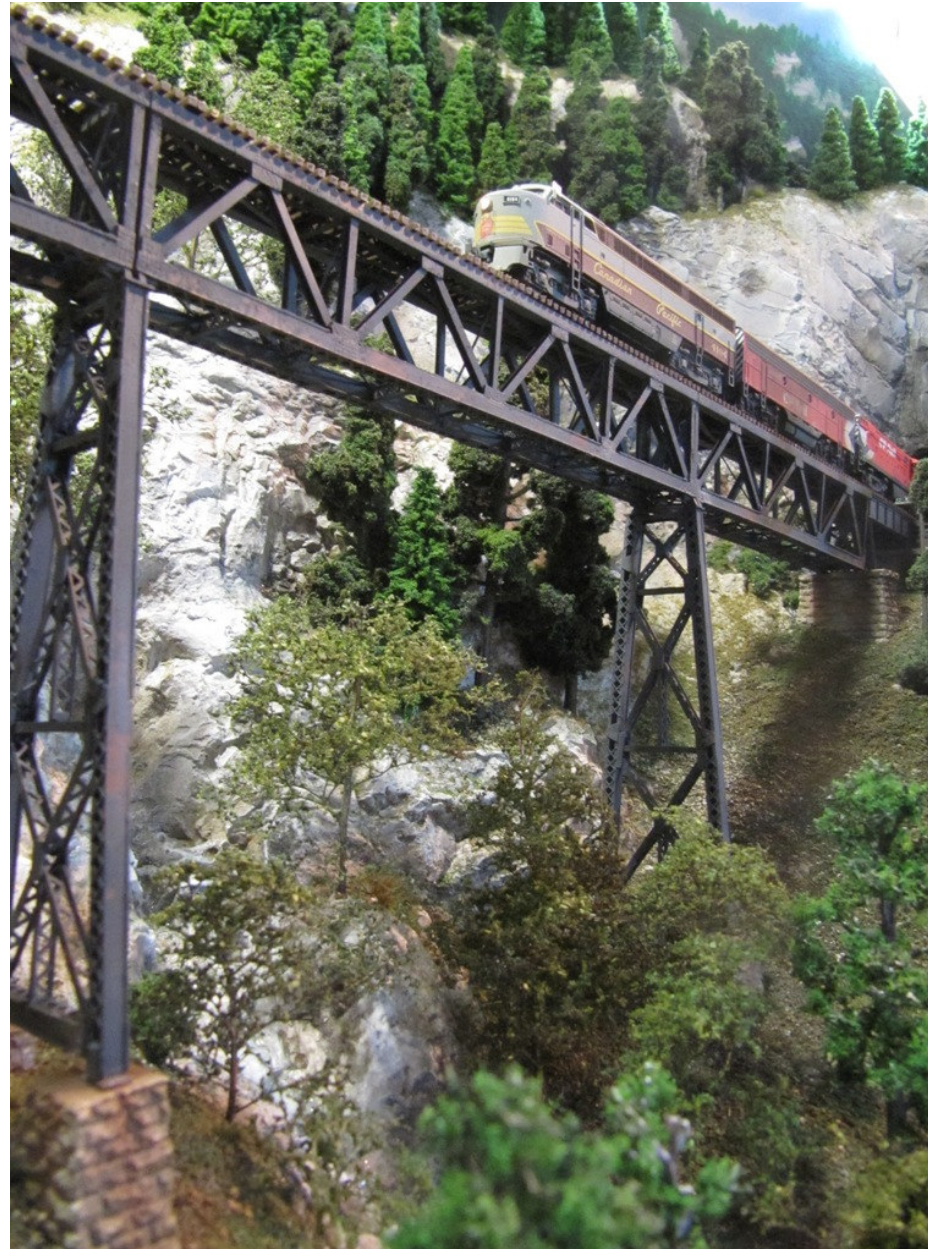


You Can **NEVER** have too many trees!

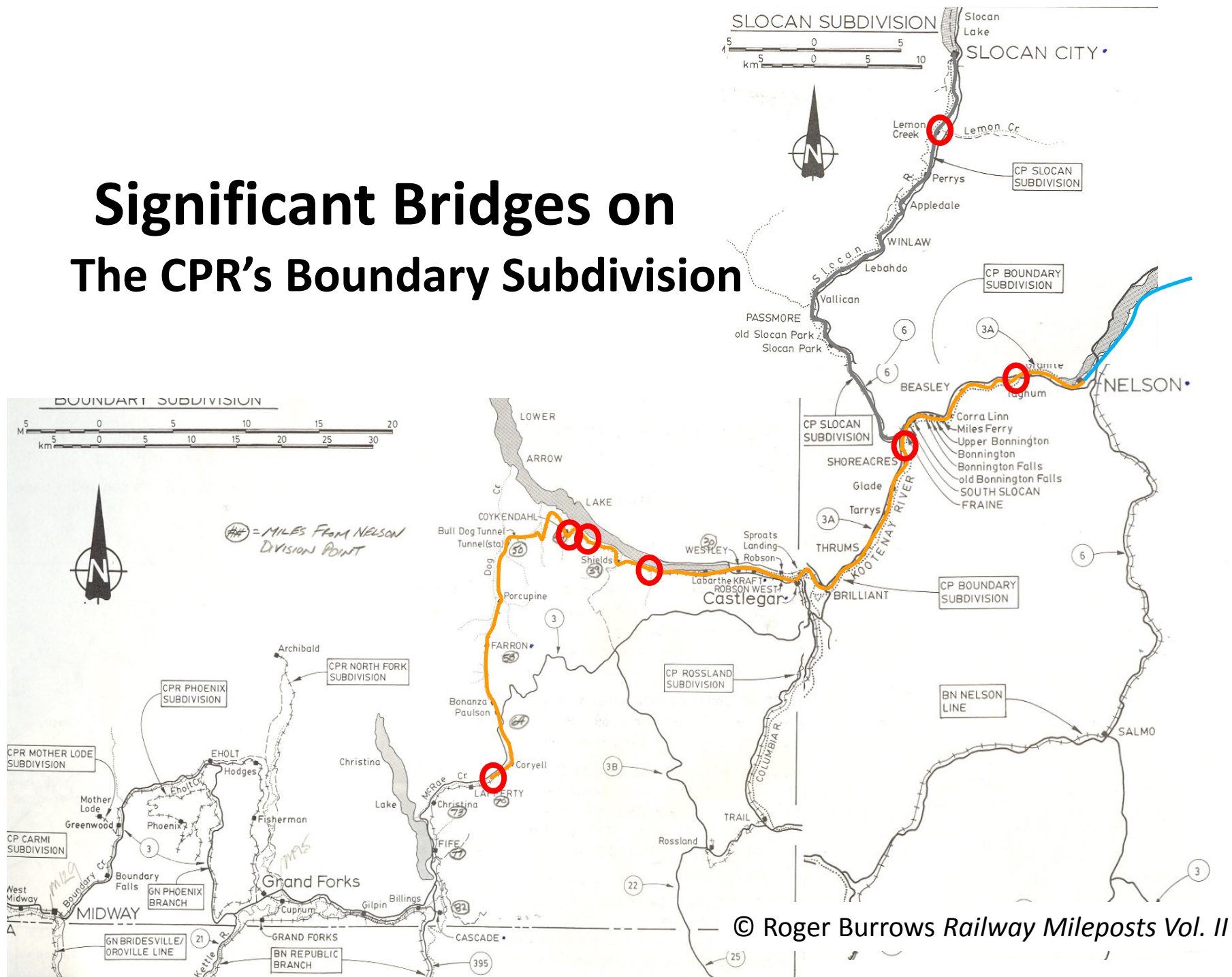




Photo by Tim Horton



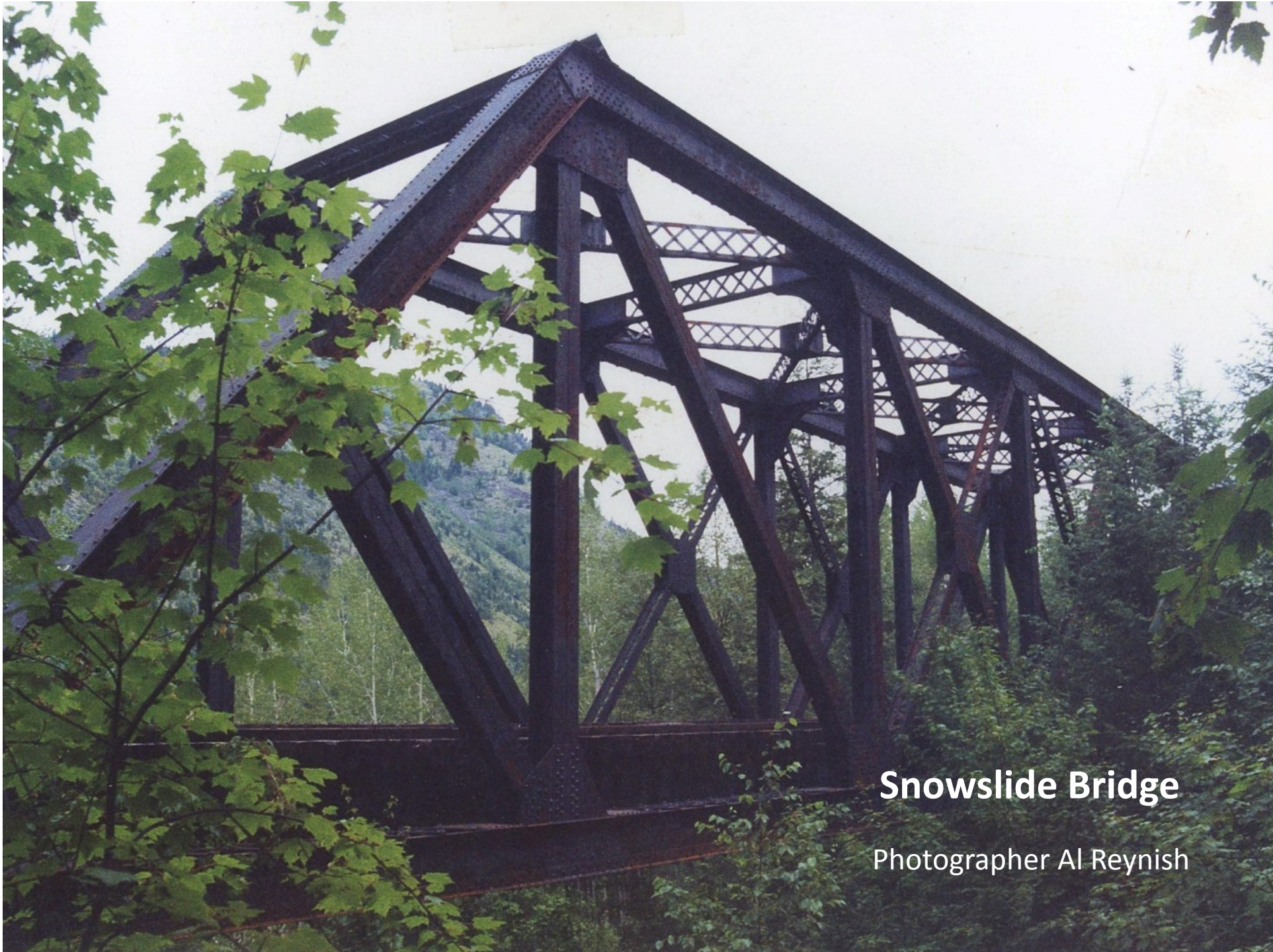
Significant Bridges on The CPR's Boundary Subdivision



Snowslide Bridge

MP69.3 of the Boundary Sub

- 1 x 135' long through truss bridge over a slide path
 - Model is scaled 110% of full size



Snowslide Bridge

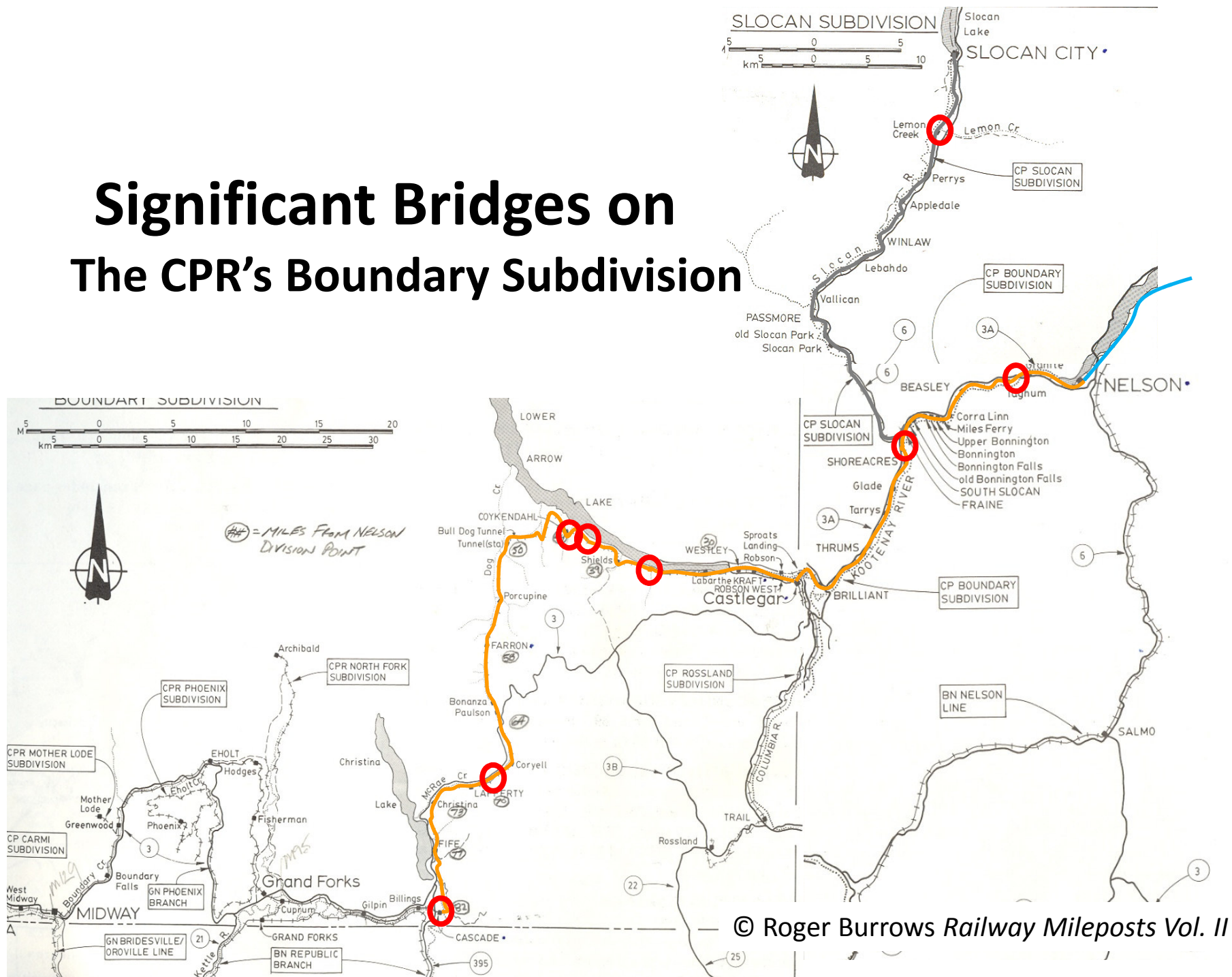
Photographer Al Reynish

Abutments and Ballast walls





Significant Bridges on The CPR's Boundary Subdivision



5th Crossing of the Kettle River

MP81.1 of the Boundary Sub

505' long x 80' High

Comprises east to west:

- 1 x 45' long deck girder bridge
- 1 x 85' long deck girder bridges
- 2 x 150' long deck truss bridges
- 1 x 75' long deck girder bridge
- Model is scaled down 100% from full size

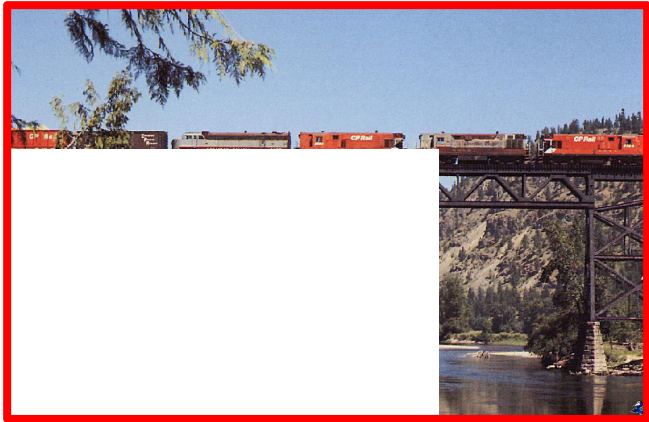


5th Crossing of the Kettle River

Kettle River trestle, near Cascade British Columbia, July 27, 1972

Photographer Unknown





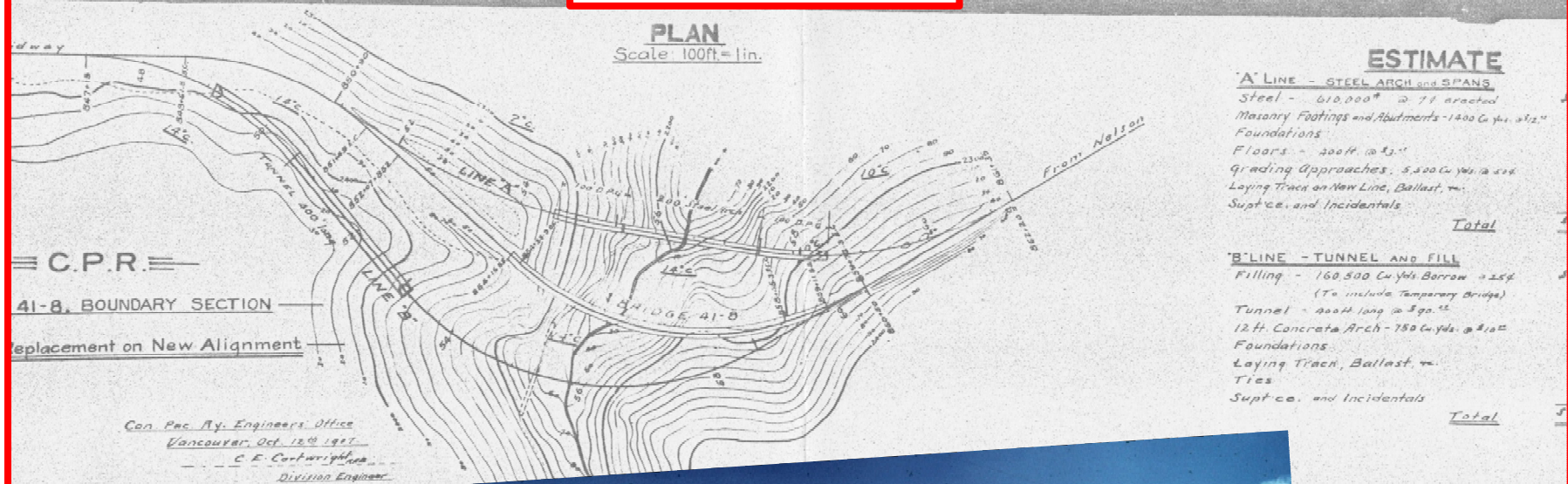
— ~ 6' —





Finally....

What-ifs!!



ESTIMATE

A' LINE - STEEL ARCH AND SPANS

- Steel - 610,000⁰⁰ @ 77 erected
- Masonry Footings and Abutments - 1400 Cu Yds. @ 12.00
- Foundations
- Floors - 200 ft. @ 43.00
- Grading Approaches - 5,500 Cu Yds. @ 2.00
- Laying Track on New Line, Ballast, etc.
- Supt. co. and Incidentals

Total

B' LINE - TUNNEL AND FILL

- Filling - 160,500 Cu Yds. Borrow @ 25.00
(To include Temporary Bridge)
- Tunnel - 400 ft. long @ 890.00
- 12 ft. Concrete Arch - 750 Cu Yds. @ 8.00
- Foundations
- Laying Track, Ballast, etc.
- Ties
- Supt. co. and Incidentals

Total



Trains & Bridges !



Bridges of the Boundary

**Thank You for
Coming!**

Any Questions?



Photos by the Presenter and Timothy J. Horton

Email: mark_dance@gmail.com

FLIKR Page <http://flic.kr/s/aHsjqN8fVQ>

YOUtube <http://www.youtube.com/user/markdance63>



Thanks for Coming!
Any Questions?

Photos by the Presenter and Timothy J. Horton

Email: mark.dance@gmail.com

FLIKR Page <http://flic.kr/s/aHsjqN8fVQ>

YOUtube <http://www.youtube.com/user/markdance63>