Geometric Design in Canada



2016 TII National Roads Conference Mullingar, Ireland, September 2016 Keith Boddy, P. Eng, NSTIR



142 x Size

1M km

1600AD

-63C to 45C

35M

100K km

1500 BC

-19C to 33C

4.7M





Linking settlements



Linking settlements



Safe-rapid-economical



300'-500'-1000'-1500'-2500'





Transportation System





Outside influences



Terrain



Weather



Winter



Wildlife



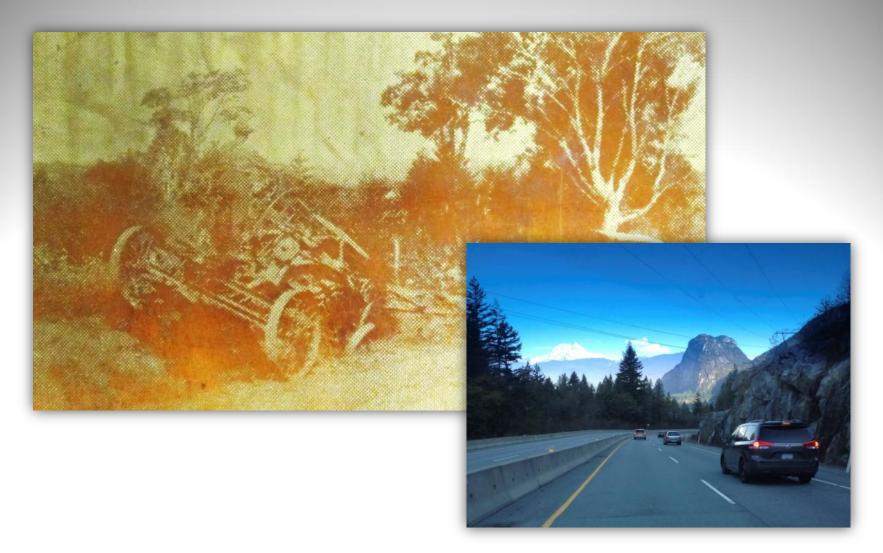
Wildlife



Improvements



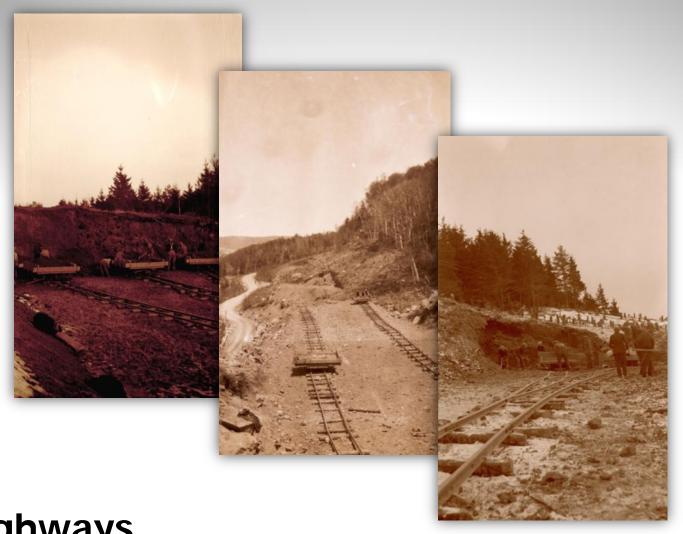
Extravagance vs weakness



Increased Speed



Landowners



Highways

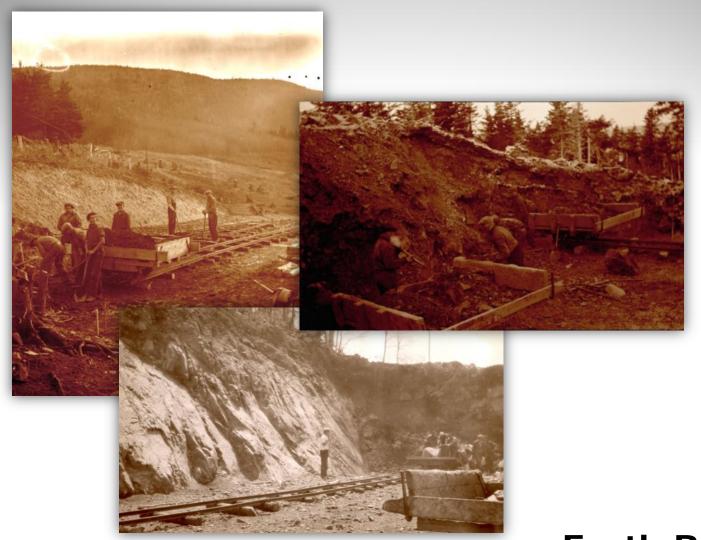


Standard Specification





Ease of movement



Earth Balance



Earth Balance



Sight distance



Widen and correct



Gradual improvement





Highway expert

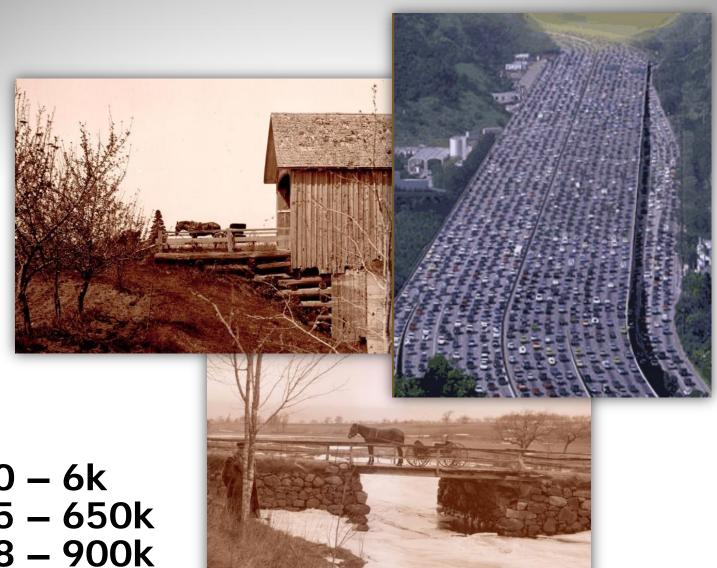


Ditch widths





Multimodal shift



1900 - 6k 1925 - 650k 1928 - 900k 2015 - 24M

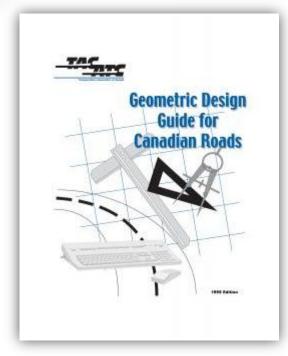






Road Safety





Intersection sight distance

Roadside design

Modern roundabout design

Context sensitive design

Design speed principles



Fiscal policy



Vulnerable road users

Design flexibility

Human factors science

Low volume & resource roads

Performance-based design: Safety outcomes

Enhanced roundabout guidance

the cook imagn is active value in cetakeyn shees doners a new experimentation of the constant of the constant

