

REDUCING THE ENVIRONMENTAL IMPACT OF ROADS THROUGH PLANNING & DESIGN

Hosted by:



Presented in partnership with:



Together with Jeremy Araki, P.Eng., of Onsite Engineering, Softree Technical Systems is hosting a free, multi-part webinar series to discuss the **environmental impact of roads**, important **design considerations**, & demonstrate how to use geometric design software to help **minimize their impact**.

Objective:

To highlight the environmental impacts of resource roads and help minimize these impacts by raising awareness of the importance of considerations and practices for planning, locating, designing, constructing, maintaining, and deactivating these roads.

Suggested Attendees:

Road Design Professionals & Practitioners, including resource road engineers, planners, surveyors, and contractors broadly.

**Concepts are applicable to other linear infrastructure engineering applications.*

Outcomes:

Provide participants with an overview & understanding of:

- the impacts of resource roads on the environment
- the primary objective of minimizing these impacts
- the aspects of resource roads that contribute to these impacts
- considerations in planning, design, construction, maintenance, and deactivation to mitigate impacts
- the expertise that is required – through education, training, and experience – to carry out these activities
- geometric modeling tools and their limitations that require significant judgment, based on operator education, training, and experience, to be used effectively.

Provide participants with an awareness of:

- considerations that they should think about when planning, locating, designing, constructing, maintaining, or deactivating a resource road
- individual limitations and the need to engage with additional professionals, with other skill sets, to assist in those considerations
- knowledge of additional reference resources & material.

Register online at:

www.softree.com/webinars

January 27

11:00am -12:00pm PST



PART 1 IMPACTS & CONSIDERATIONS

- Role Of Planning
- Impact Of Roads on the Land Base
- Risks & Hazards
- Elements At Risk & Consequences
- Defining a Sustainable Road
- Considerations

February 10

11:00am -12:00pm PST

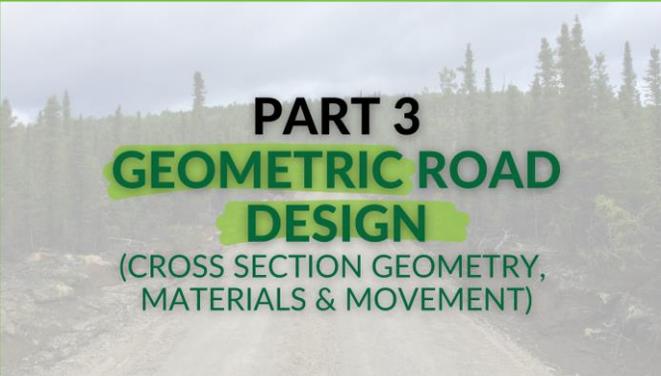


PART 2 PLANNING & LOCATING THE ROAD

- Road Use
- Landscape
- Local Geology
- Local Fish, Vegetation & Wildlife
- Local Climate
- Road Lifecycle

February 24

11:00am -12:00pm PST



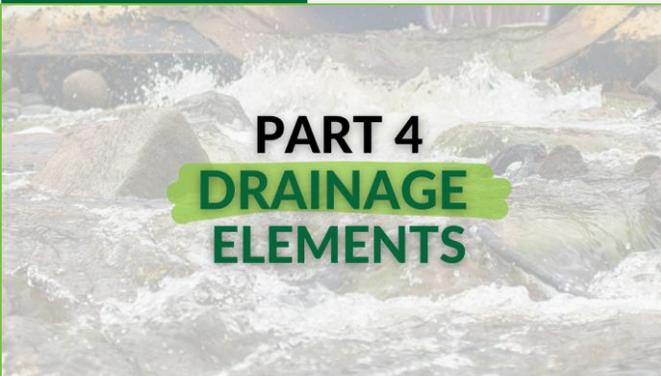
PART 3 GEOMETRIC ROAD DESIGN

(CROSS SECTION GEOMETRY,
MATERIALS & MOVEMENT)

- Materials & Properties
- Cross-Section Geometry
 - Cut and Fill Slopes
- Grades
- Material Movement
- Spoil & Borrow Sites

March 10

11:00am -12:00pm PST



PART 4 DRAINAGE ELEMENTS

- Culverts & Cross Drains
- Ditches
- Road Surface - Grade , Shape & Surfacing
- Sediment Management

All roads have an impact. Water impacts everything.
Join us to learn more about reducing the impact of roads through planning & design.