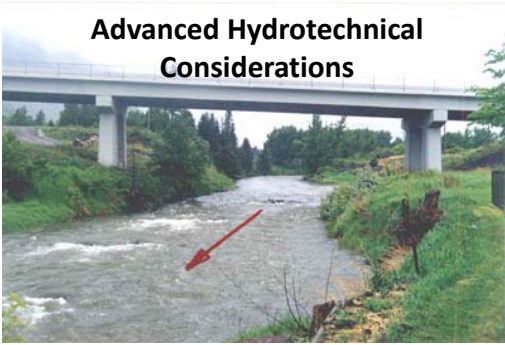




Advanced Hydrotechnical Considerations

Advanced Hydrotechnical Considerations






 Class A Bridge Inspection Course 1


Advanced Hydrotechnical Considerations

Overview

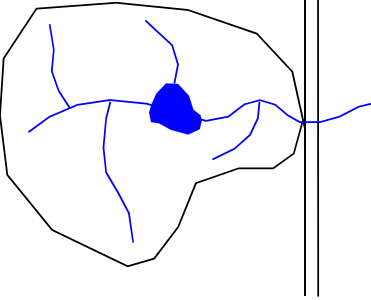
- Hydrotechnical Review
- Pier Scour Inspection
- RPW Inspection
- Case Study




 Class A Bridge Inspection Course 2


Advanced Hydrotechnical Considerations

Hydrotechnical Review

- Area
- Shape
- Slope
- Channel
- Storage
- Density
- Vegetation
- Soil Type
- Initial Moisture





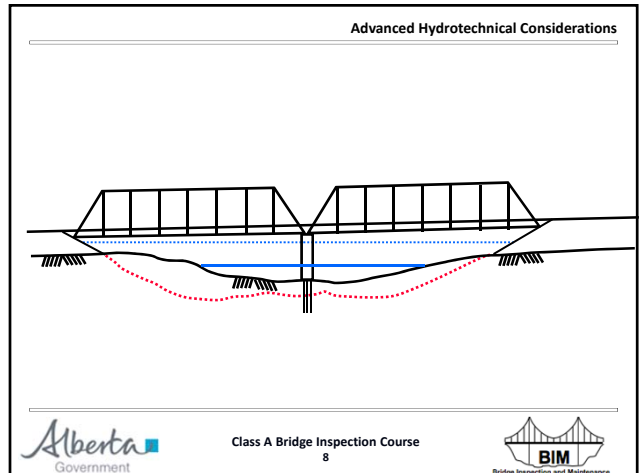
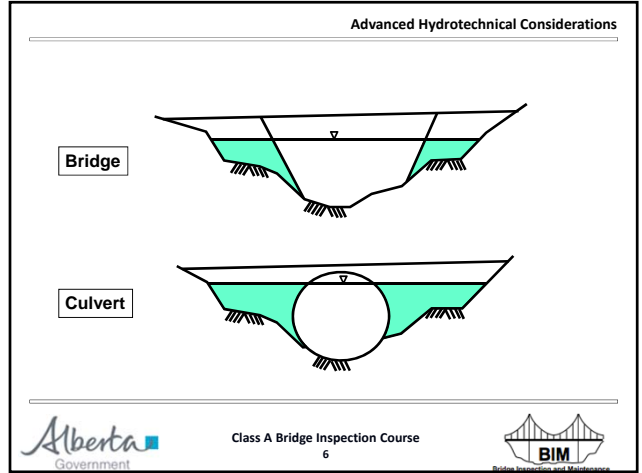
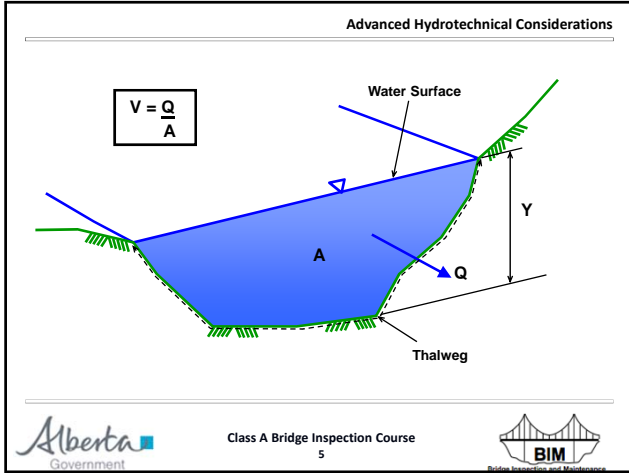

 Class A Bridge Inspection Course 3


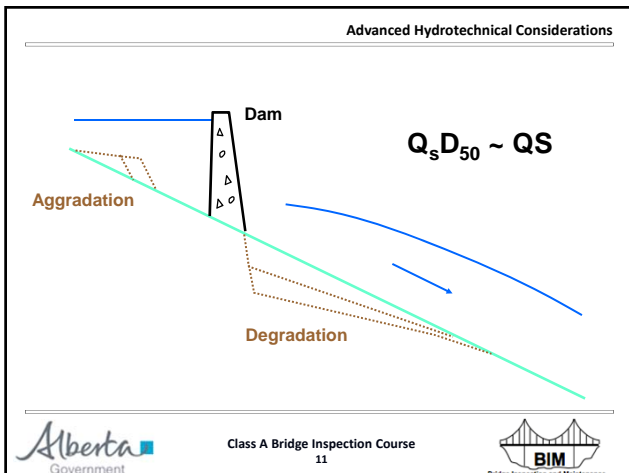
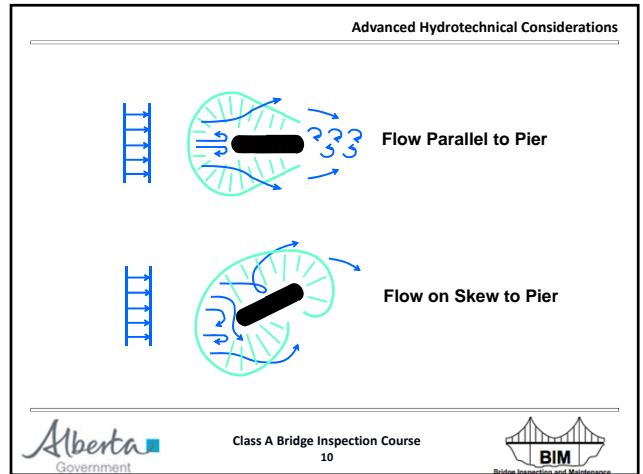
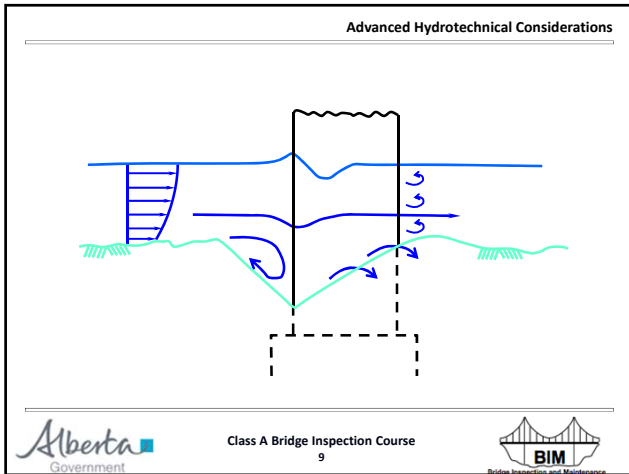
Advanced Hydrotechnical Considerations

Hydrotechnical Design Guidelines:

- Channel Capacity
- Historic Highwater Data
 - Drift, debris
 - Scars, erosion
 - Locals, photos
- Runoff Potential


 Class A Bridge Inspection Course 4






Advanced Hydrotechnical Considerations

High ← Relative Stability → Low

High ↑ Relative Stability ↓ Low

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Bridge Inspection and Maintenance

Advanced Hydrotechnical Considerations

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Bridge Inspection and Maintenance

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Bridge Inspection and Maintenance

Advanced Hydrotechnical Considerations

Pier Scour Survey

Alberta Government Class A Bridge Inspection Course 16 BIM
Bridge Inspection and Maintenance

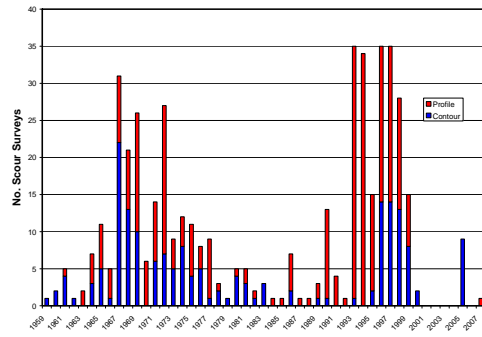
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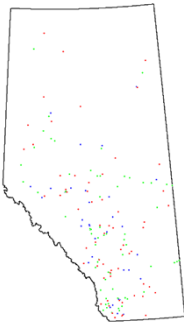
Advanced Hydrotechnical Considerations



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Advanced Hydrotechnical Considerations



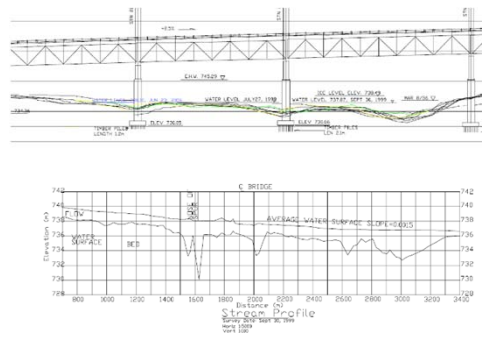
Priority	Number Of Structures	
	Initial	Latest
1	60	38
2	68	70
3	41	65



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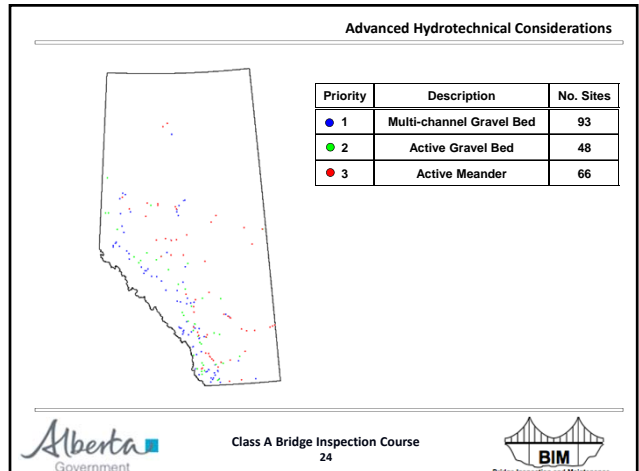
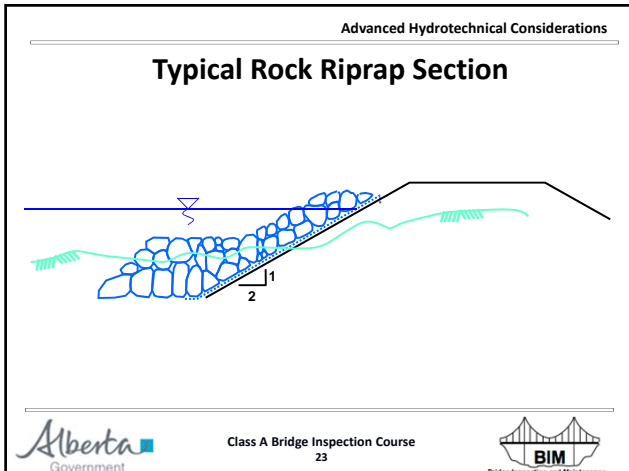
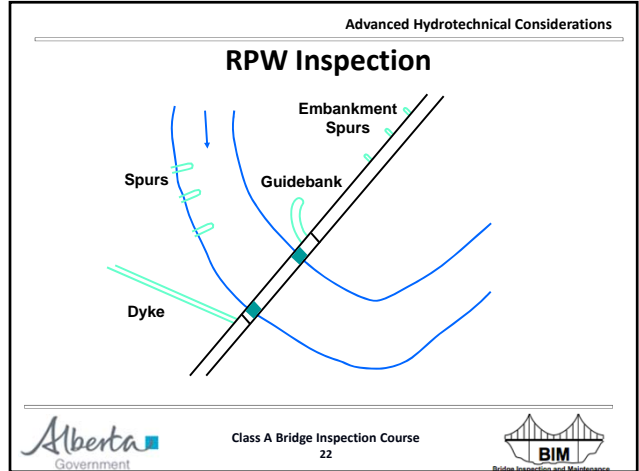
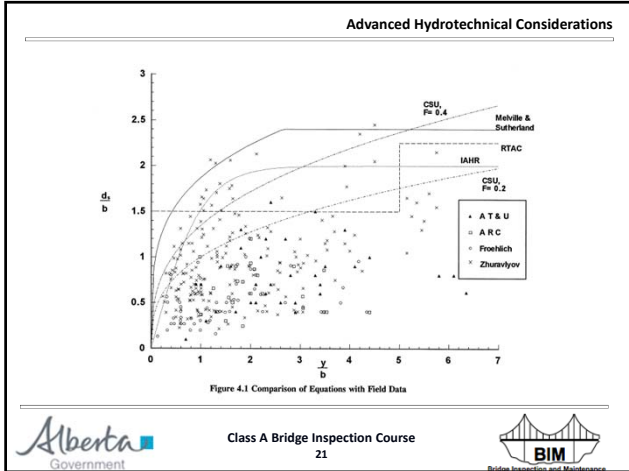


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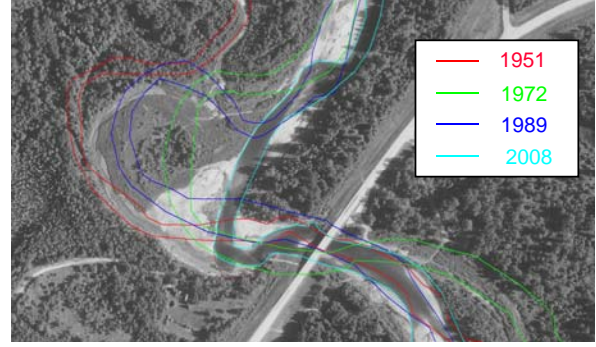
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Advanced Hydrotechnical Considerations



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Advanced Hydrotechnical Considerations



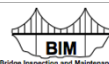
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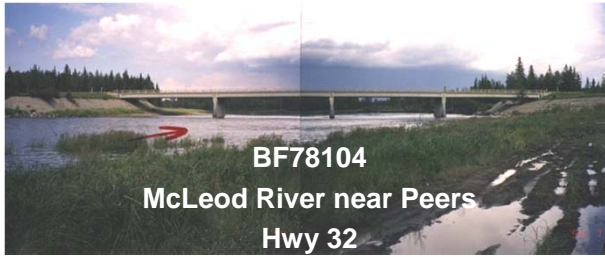
Advanced Hydrotechnical Considerations



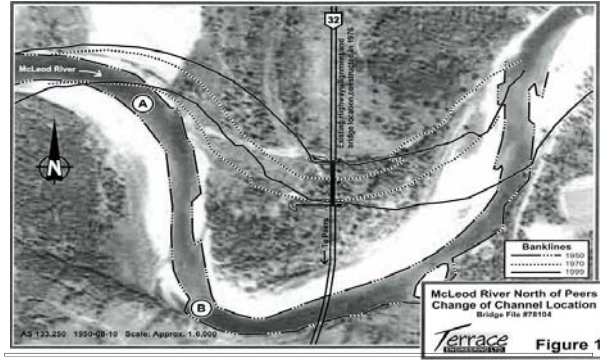
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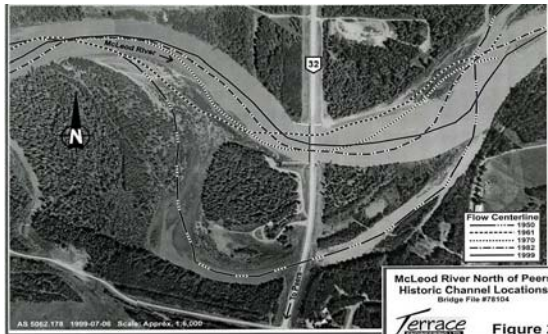
Case Study



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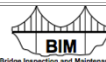
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Class A Bridge Inspection Course
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Class A Bridge Inspection Course
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Class A Bridge Inspection Course
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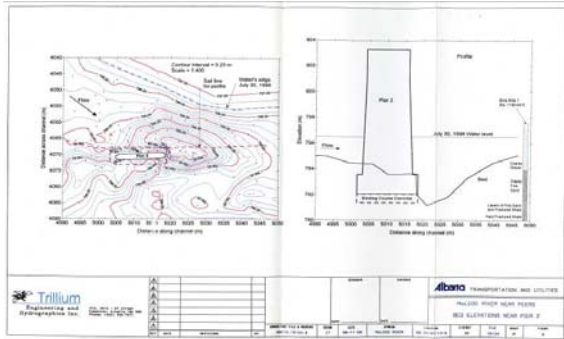
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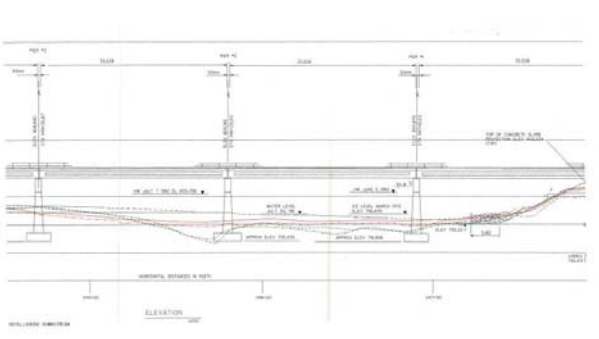
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Advanced Hydrotechnical Considerations



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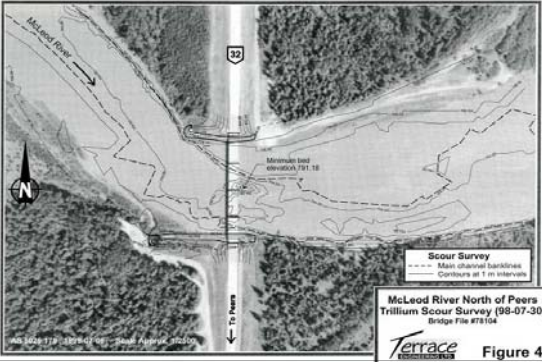


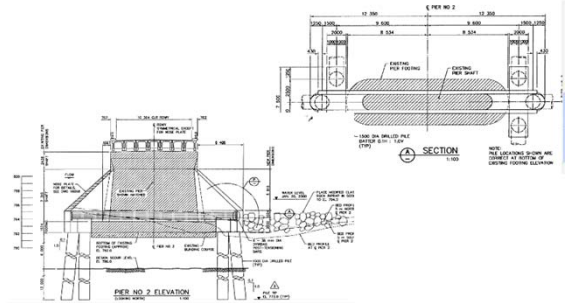
Figure 4



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...Questions?



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