



**SELWYN CHIHONG
MINING LTD.**

Howard's Pass Access Road Upgrade Project 2015 Land Use and Water Licence Application Package

June 2015

Volume 1: Applications

Part 3 of 4



**Howard's Pass Access Road (HPAR) Upgrade Project
Application Package
June 2015**

NOTE TO READER

This application package is divided into 3 Volumes:

- Volume 1 contains the formal application forms for the Mackenzie Valley Land and Water Board and Parks Canada and a number of attachments:
 - Attachment 1: Camp Layout Schematic Diagram
 - Attachment 2: Road Design Criteria
 - Attachment 3: Preliminary Road Design
 - Attachment 4: Land Use Permit Security Worksheet
- Volume 2 contains the 2015 Project Description Report
- Volume 3 contains Appendices to the Project Description Report:
 - Appendix I. Applicable Standard Operating Procedures
 - Appendix II. Waste Management Plan for the Howard's Pass Access Road
 - Appendix III. Spill Contingency Plan for the Northwest Territories
 - Appendix IV. Erosion and Sediment Control Plan
 - Appendix V. Avalanche Mitigation Strategy
 - Appendix VI. Geochemical Test Results for HPAR Borrow Site Samples
 - Appendix VII. Sample Quarry Operations Plan (2014)
 - Appendix VIII. Wildlife Mitigation and Monitoring Plan
 - Appendix IX. Community Engagement Plan
 - Appendix X. Community Engagement Report Appendices

Selwyn Chihong Mining Ltd. has produced an integrated application package for the upgrading of the Howards Pass Access Road. You will note that there are references throughout the application package to the Attachments in Volume 1, the Project Description Report in Volume 2 and a variety of Management Plans in Volume 3. These are all linked throughout the application package with the Project Description Report providing the overall details that support this submission.

For additional information or for clarification, please contact Doug Reeve, Manager, Permitting and Regulatory Affairs at dreeve@chihongmining.com.

ATTACHMENT 3. Preliminary Road Design Sheets 12 to 21

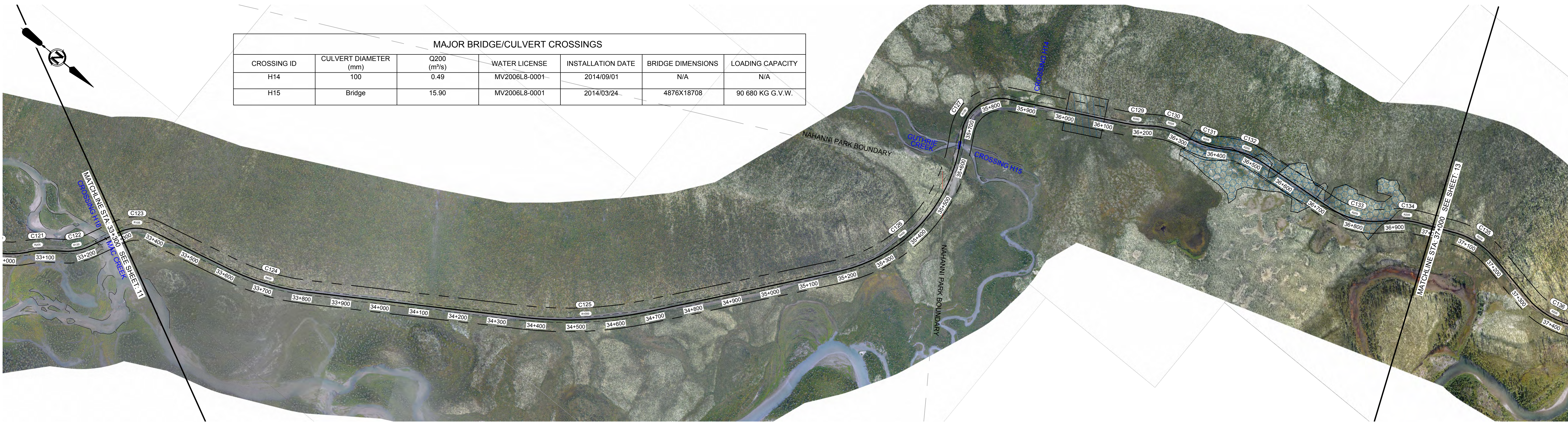
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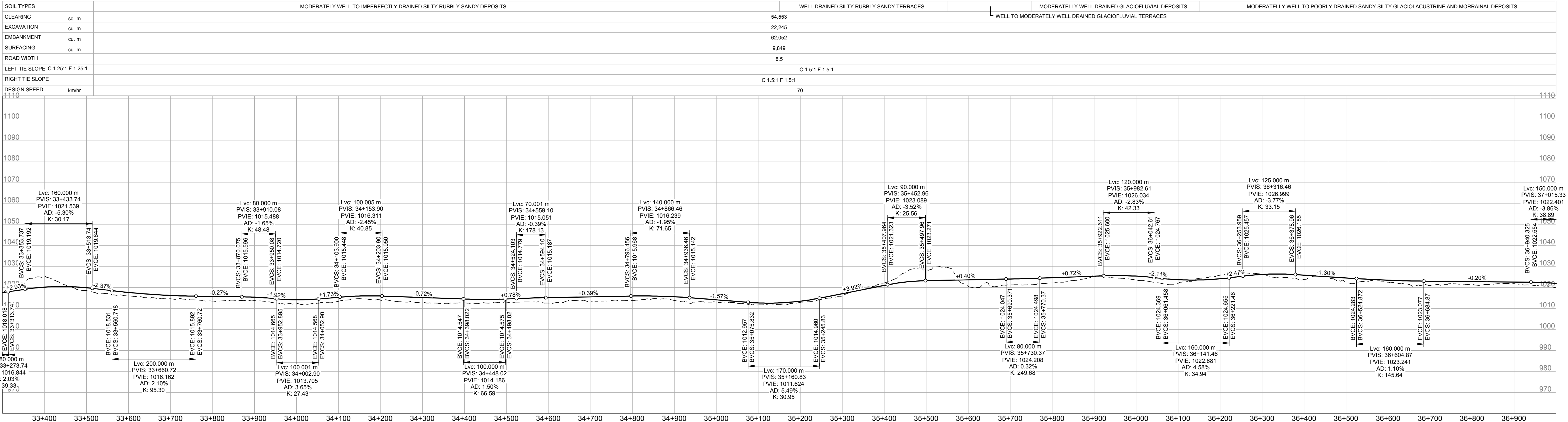
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MAJOR BRIDGE/CULVERT CROSSINGS						
CROSSING ID	CULVERT DIAMETER (mm)	Q200 (m³/s)	WATER LICENSE	INSTALLATION DATE	BRIDGE DIMENSIONS	LOADING CAPACITY
H14	100	0.49	MV2006L8-0001	2014/09/01	N/A	N/A
H15	Bridge	15.90	MV2006L8-0001	2014/03/24	4876X18708	90 680 KG G.V.W.



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B	2014DEC17	S. KING	J. FORD	ISSUED FOR REVIEW
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REV	DATE	DESIGN	DRAWN	DESCRIPTION

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HOWARD PASS ACCESS ROAD
PRELIMINARY ROAD DESIGN
20112946-01

SCALE: H=1:5,000, V=1:1,000

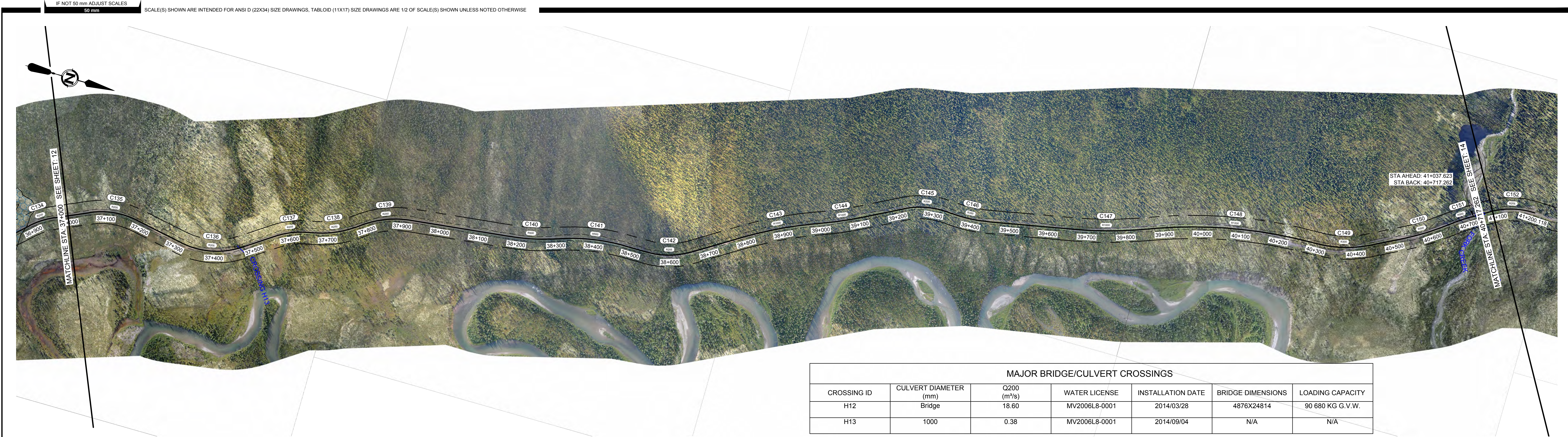


CIVIL
PLAN/PROFILE
STA 33+300 TO STA 37+000

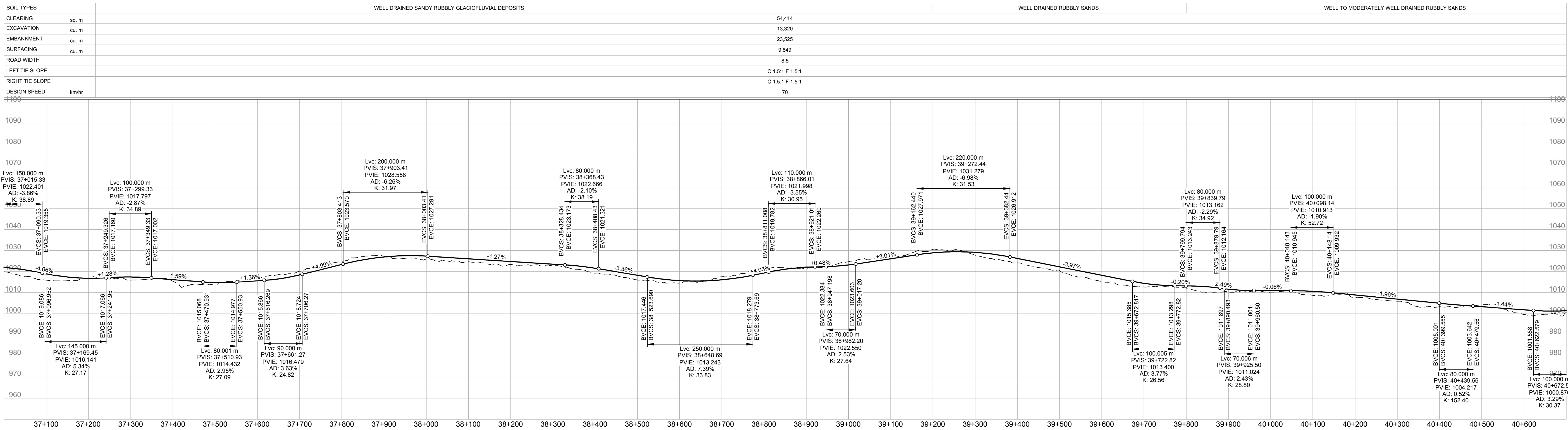
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MAJOR BRIDGE/CULVERT CROSSINGS						
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H12	Bridge	18.60	MV2006L8-0001	2014/03/28	4876X24814	90 680 KG G.V.W.
H13	1000	0.38	MV2006L8-0001	2014/09/04	N/A	N/A



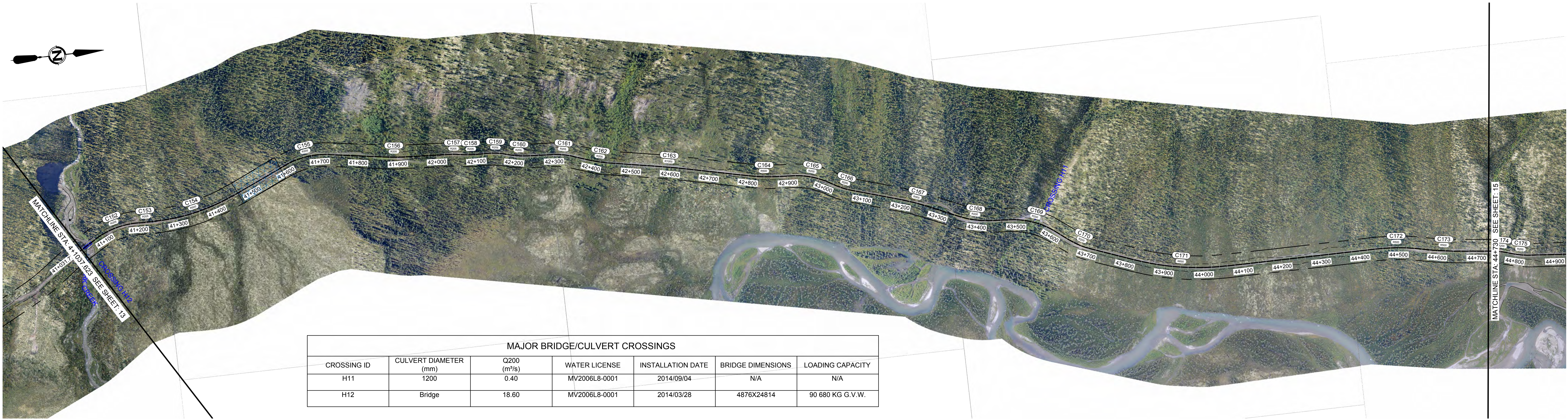
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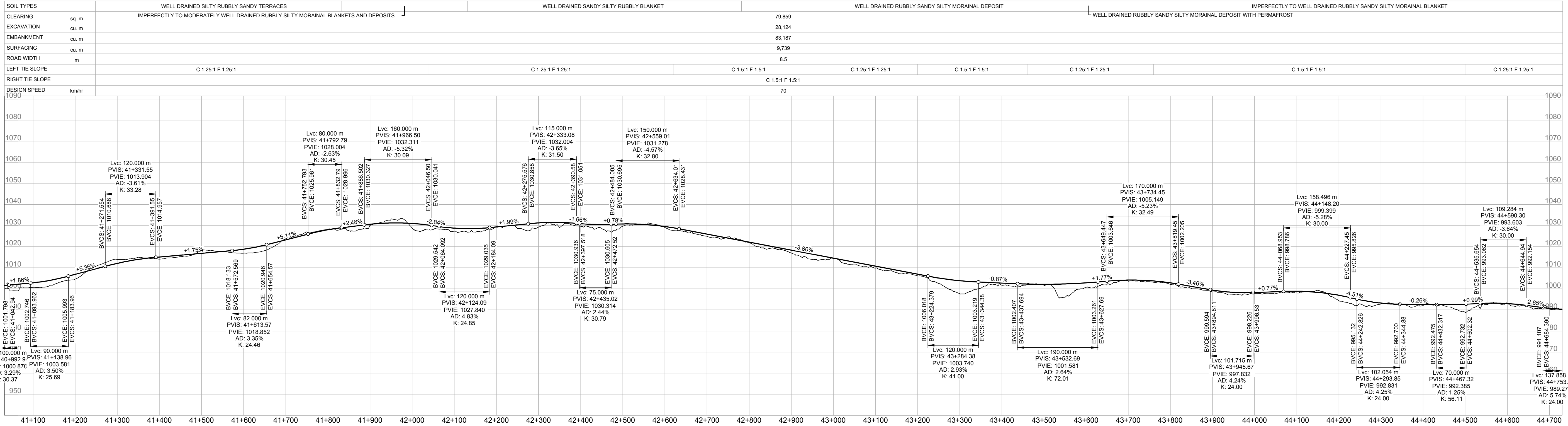
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H11	1200	0.40	MV2006L8-0001	2014/09/04	N/A
H12	Bridge	18.60	MV2006L8-0001	2014/03/28	4876X24814
					90 680 KG G.V.W.



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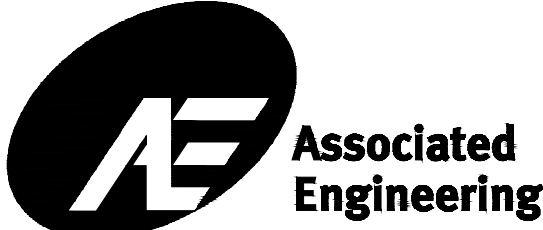
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PRELIMINARY ROAD DESIGN
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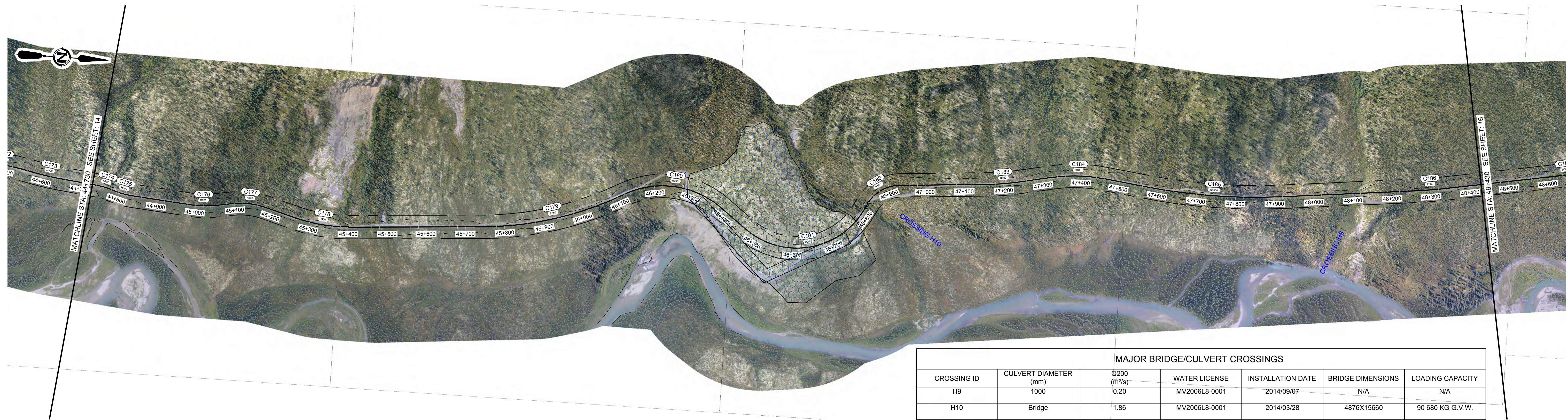


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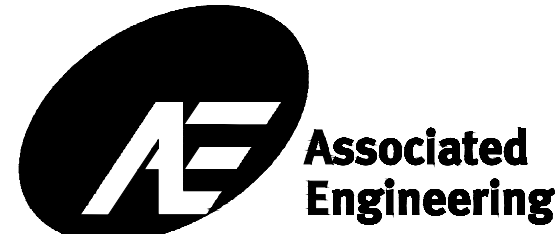
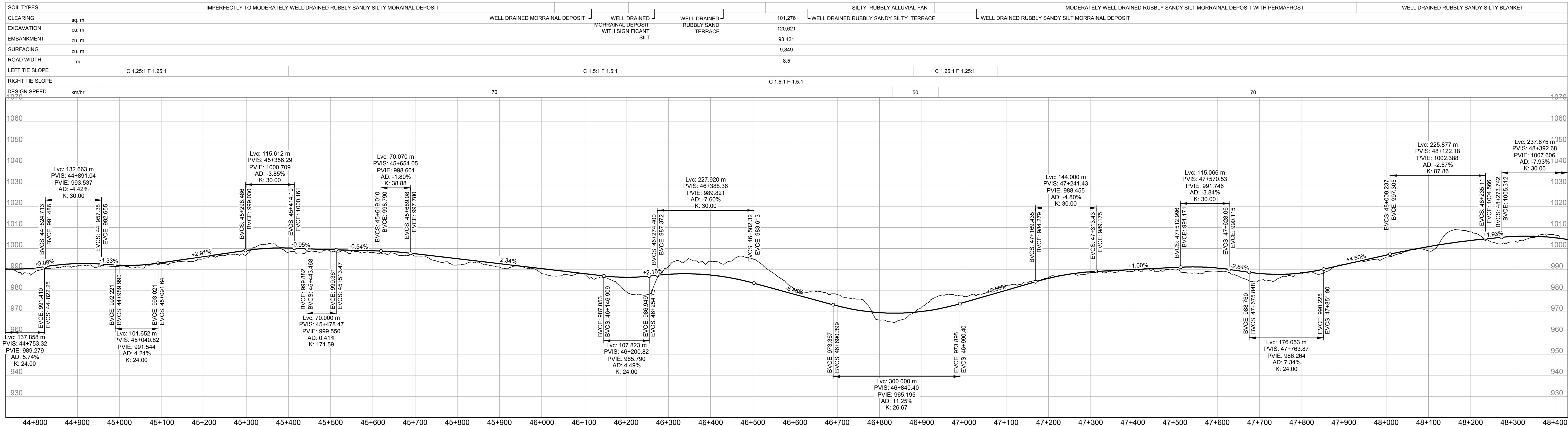
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MAJOR BRIDGE/CULVERT CROSSINGS						
CROSSING ID	CULVERT DIAMETER (mm)	Q200 (m³/s)	WATER LICENSE	INSTALLATION DATE	BRIDGE DIMENSIONS	LOADING CAPACITY
H9	1000	0.20	MV2006L8-0001	2014/09/07	N/A	N/A
H10	Bridge	1.86	MV2006L8-0001	2014/03/28	4876X15660	90 680 KG G.V.W.



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HOWARD PASS ACCESS ROAD
PRELIMINARY ROAD DESIGN
20112946-01

SCALE: H=1:5,000, V=1:1,000



CIVIL
PLAN/PROFILE
STA 44+730 TO STA 48+430

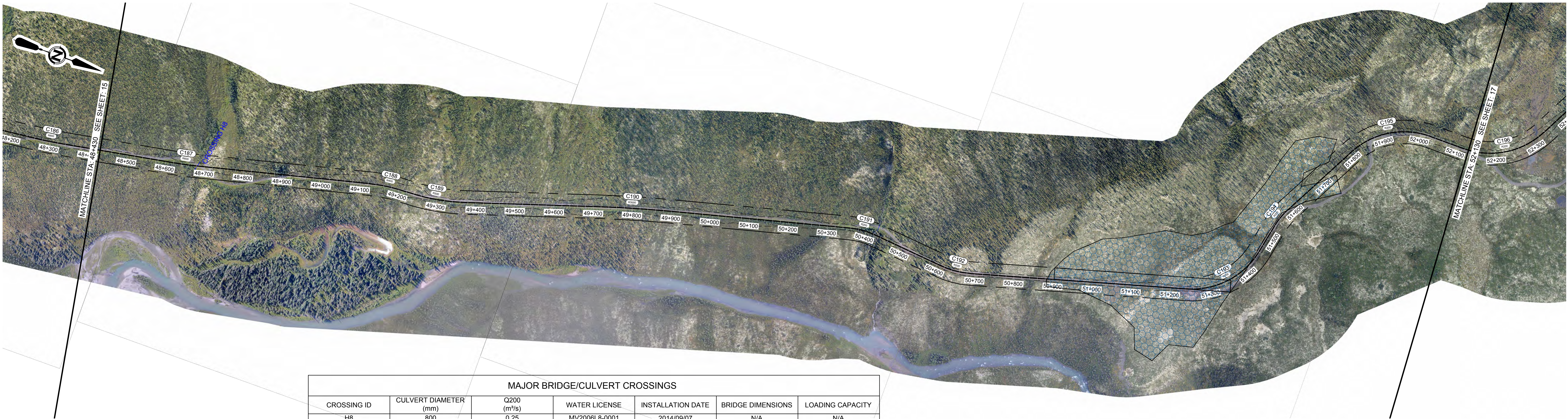
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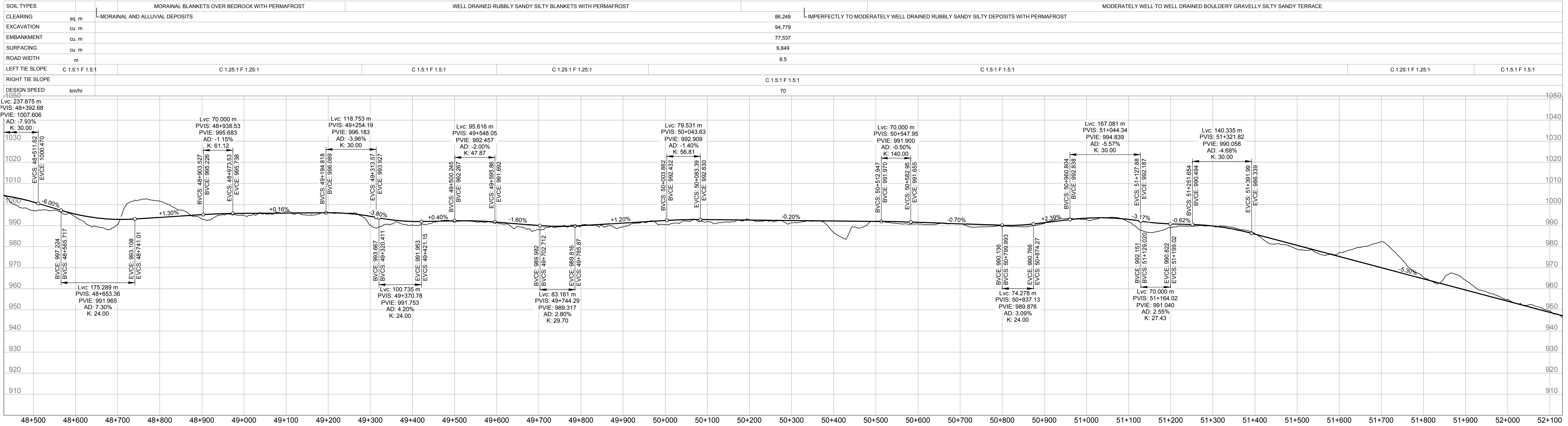
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MAJOR BRIDGE/CULVERT CROSSINGS					
CROSSING ID	CULVERT DIAMETER (mm)	Q200 (m³/s)	WATER LICENSE	INSTALLATION DATE	BRIDGE DIMENSIONS
H8	800	0.25	MV2006L8-0001	2014/09/07	N/A
					N/A



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PRELIMINARY ROAD DESIGN
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CIVIL
PLAN/PROFILE
STA 48+430 TO STA 52+130

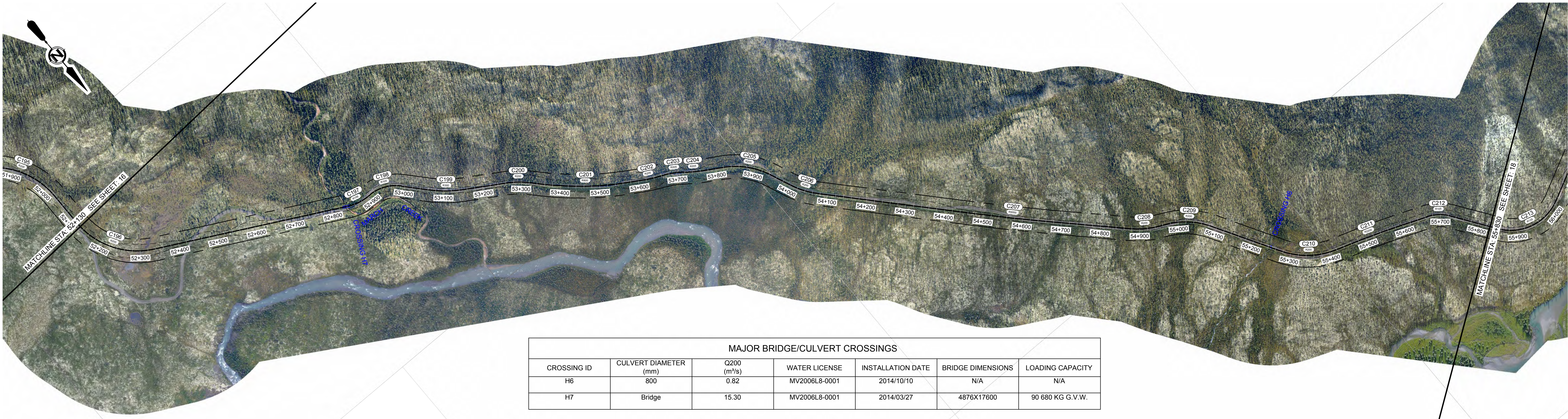
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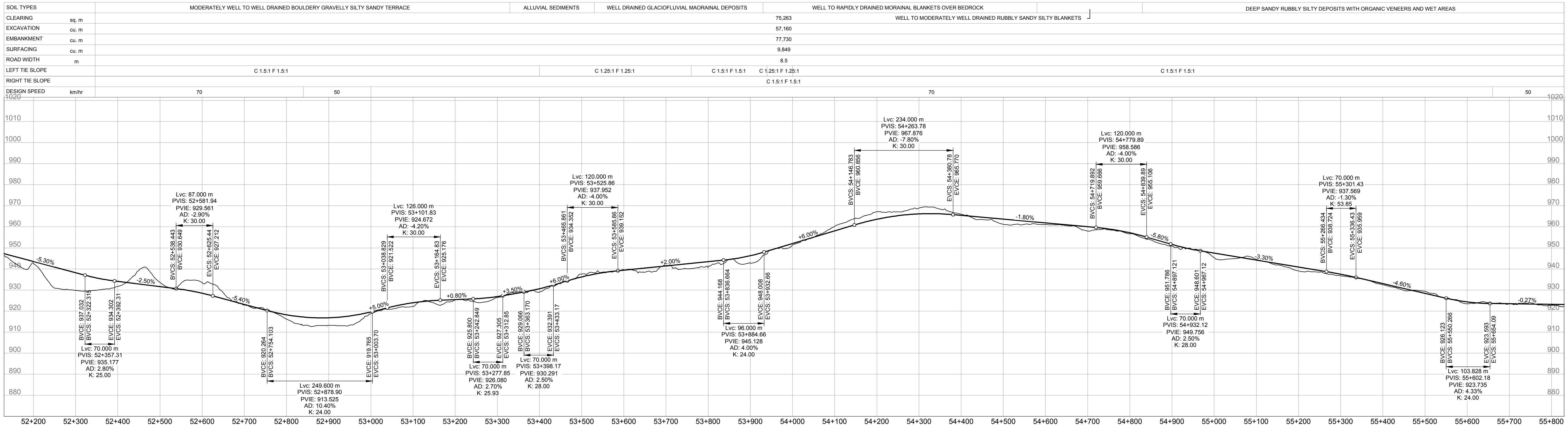
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CROSSING ID	CULVERT DIAMETER (mm)	Q200 (m³/s)	WATER LICENSE	INSTALLATION DATE	BRIDGE DIMENSIONS	LOADING CAPACITY
H6	800	0.82	MV2006L8-0001	2014/10/10	N/A	N/A
H7	Bridge	15.30	MV2006L8-0001	2014/03/27	4876X17600	90 680 KG G.V.W.



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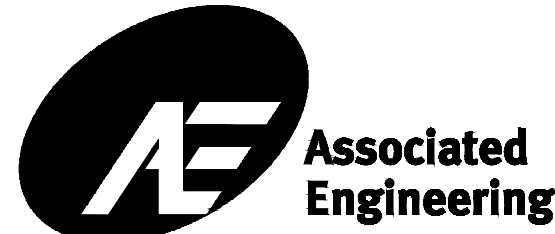
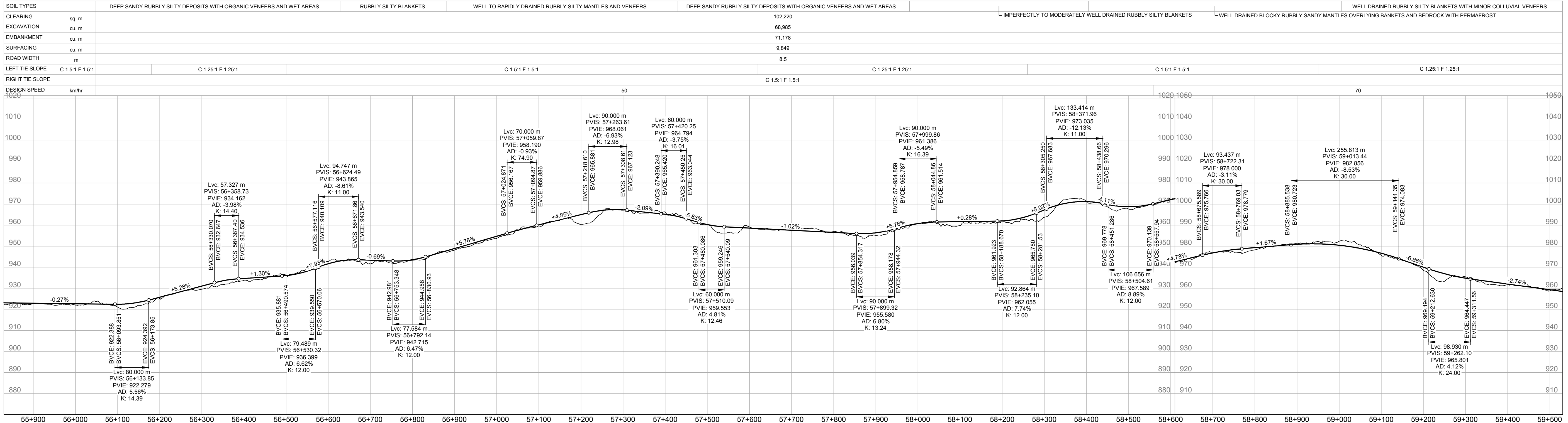
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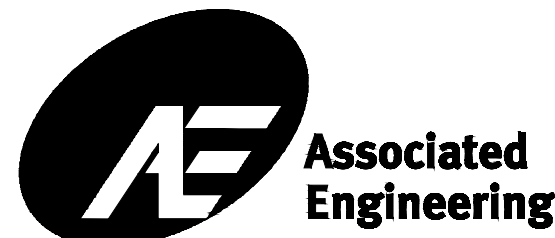
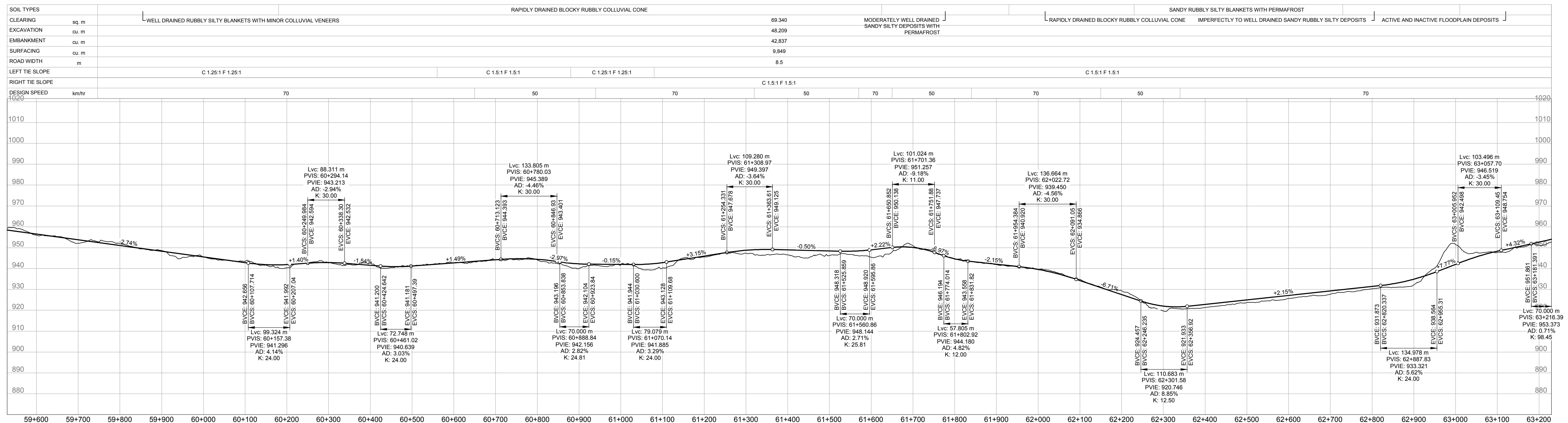
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CIVIL
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STA 55+830 TO STA 59+530

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MAJOR BRIDGE/CULVERT CROSSINGS						
CROSSING ID	CULVERT DIAMETER (mm)	Q200 (m³/s)	WATER LICENSE	INSTALLATION DATE	BRIDGE DIMENSIONS	LOADING CAPACITY
H5	Bridge	97.70	MV2006L8-0001	2014/03/26	4876X49239	90 680 KG G.V.W.



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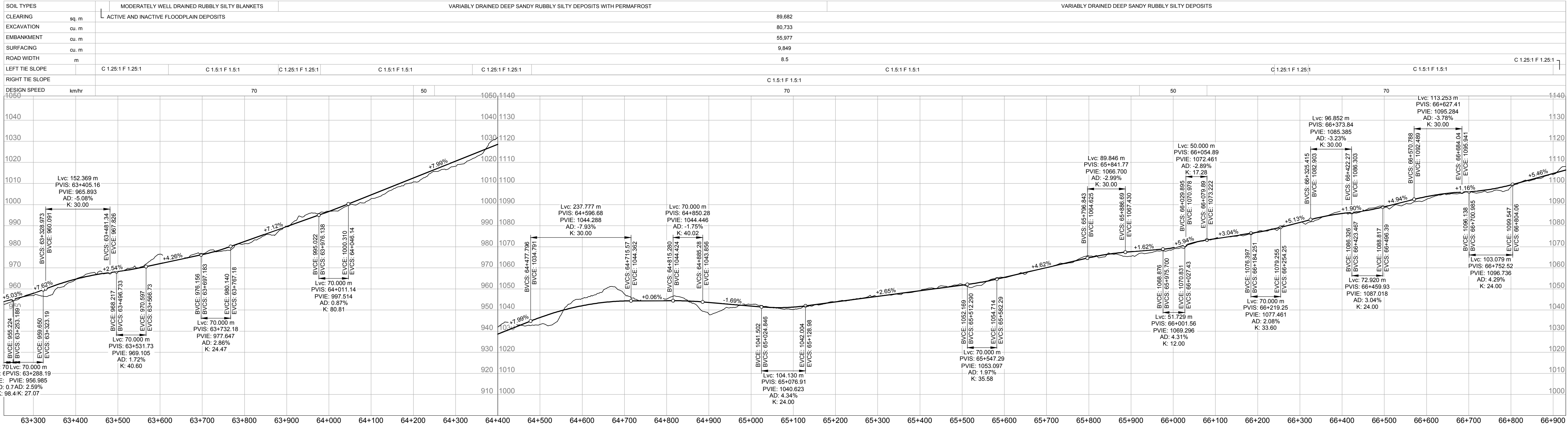
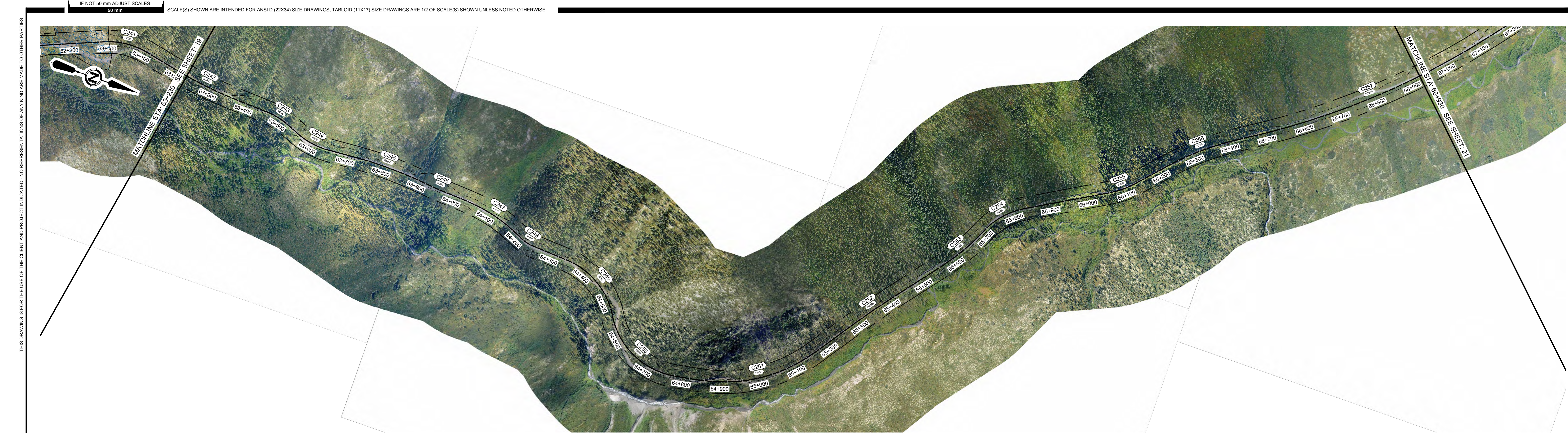
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CIVIL
PLAN/PROFILE
STA 59+530 TO STA 63+230

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Associated Engineering

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CIVIL
PLAN/PROFILE
STA 63+230 TO STA 66+930

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