



**MINISTRY OF TRANSPORTATION AND INFRASTRUCTURE  
ROCKWORK ENGINEERING**

**June 2024**

**SITE REFERENCE INFORMATION**

**PROJECT NO. 86002-0252 ROCK SLOPE STABILIZATION  
THREE VALLEY GAP BLUFF ZONES 13 TO 15, HWY 1**

Information provided in the site reference material is intended to be used by the Ministry of Transportation and Infrastructure in conjunction with other data relevant to the site. Although reasonable care has been exercised in collecting and assembling the site reference photographs and other data, the Ministry does not warrant the information for accuracy or reliability. The conditions shown are representative of the locations at the time the photos were taken, and other data collected. These conditions are subject to change with time. Any interpretation placed on this information by the Contractor will be at the Contractor's own risk.

Three Valley Gap Bluff Zones 13 to 15, Highway #1

RFI Landmark No.: 24770, RFI Landmark Name: Rutherford Beach East, RFI Offset: 1.743 to 1.906 km

LKI Segment: 1812, LKI Segment Name: Sicamous to Revelstoke, LKI km: 51.3 to 51.5

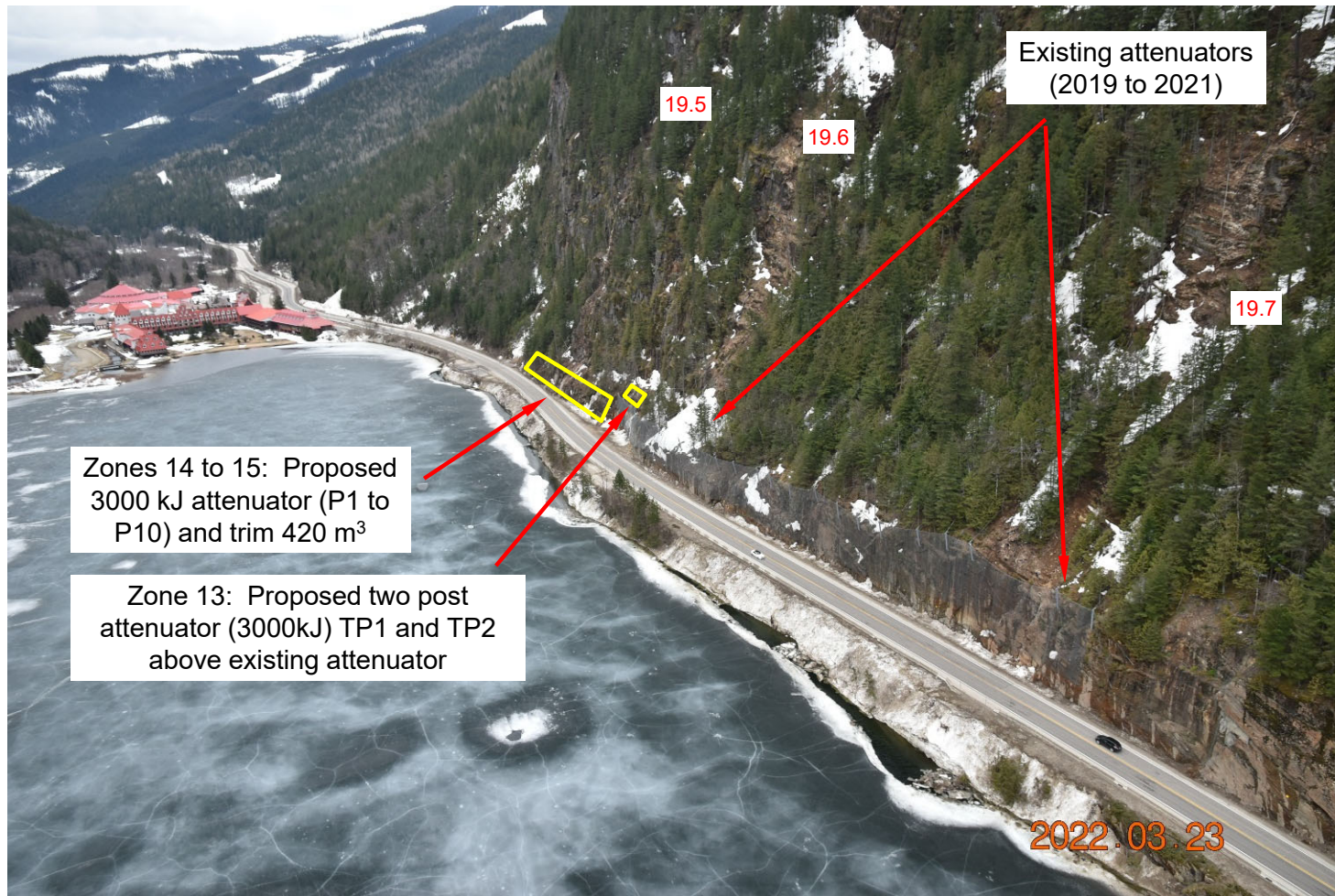


Photo #1: Overall view of site showing location of proposed work in avalanche path 19.5

Ref# 12708 SCP Mar 23, 2022



Three Valley Gap Bluff Zones 13 to 15, Highway #1

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Work Summary:

Zone 13

Two post attenuator 15 m

Posts TP1 to TP2

Nets 17 m x 12 m

Zone 14

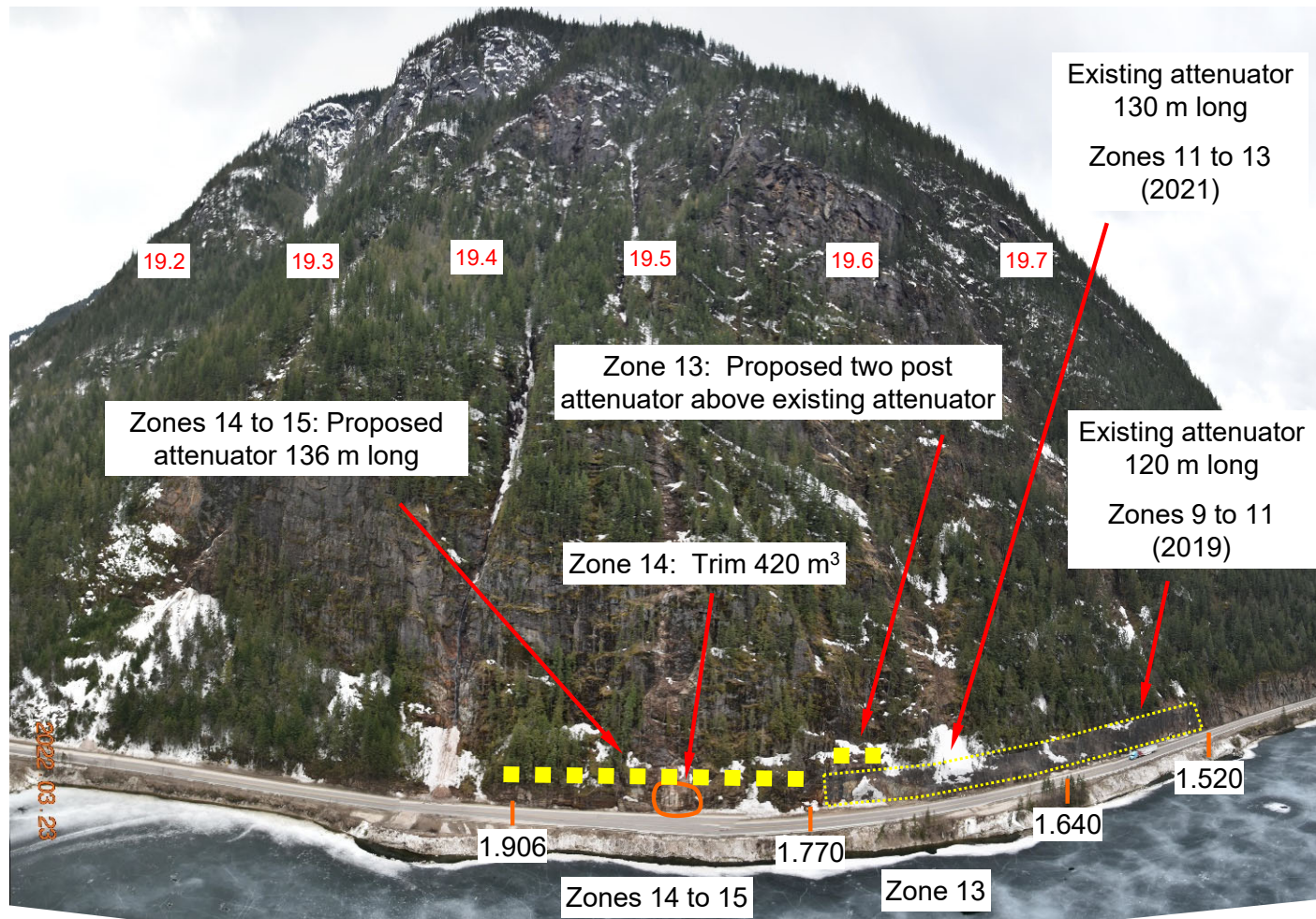
Trim 420 m<sup>3</sup>

Zones 14 to 15

Attenuator 136 m

Posts P1 to P10

Nets 136 m x 12 m



Photos #2: Overall view of site showing location of proposed work in avalanche path 19.5

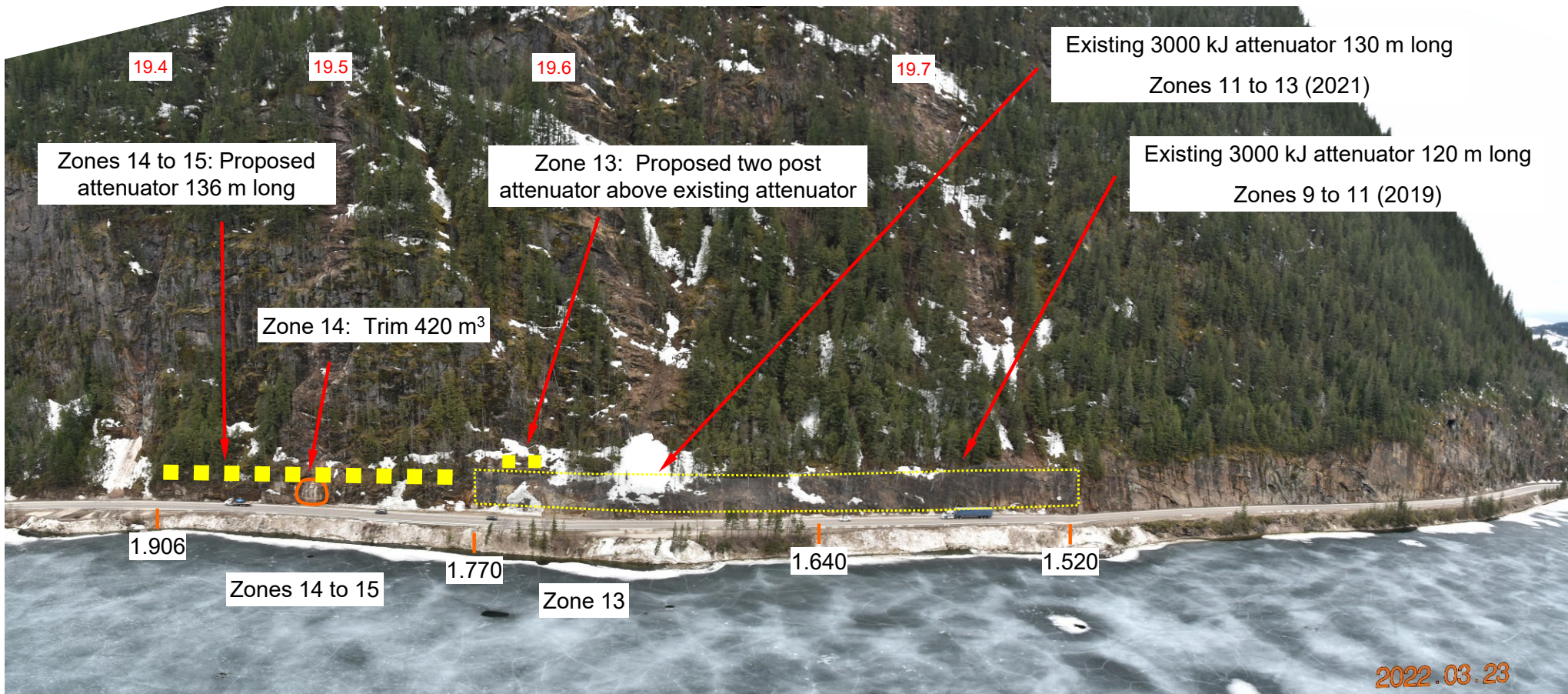
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Three Valley Gap Bluff Zones 13 to 15, Highway #1

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Photos #3: Overall view of site showing location of proposed work

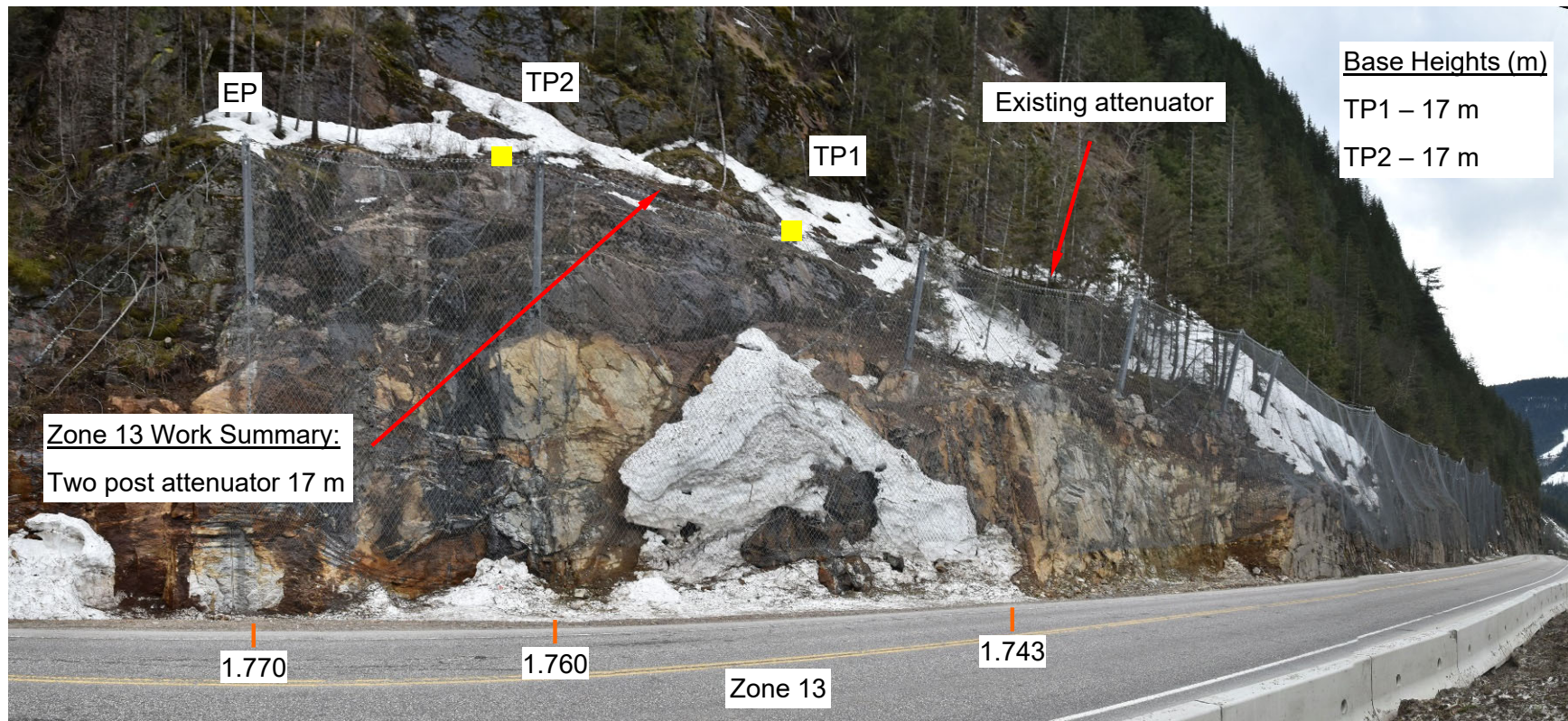
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Three Valley Gap Bluff Zones 13 to 15, Highway #1

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Photos #4: View of site showing location of proposed work

EP = Existing post

Ref# 12708 SCP Mar 23, 2022

Posts TP1 and TP2 are 5 m long from 3000 kJ catch fence system

Primary and secondary net height is 12 m. Primary net goes on the inside (closest to bluff) and secondary net on the outside.



Three Valley Gap Bluff Zones 13 to 15, Highway #1

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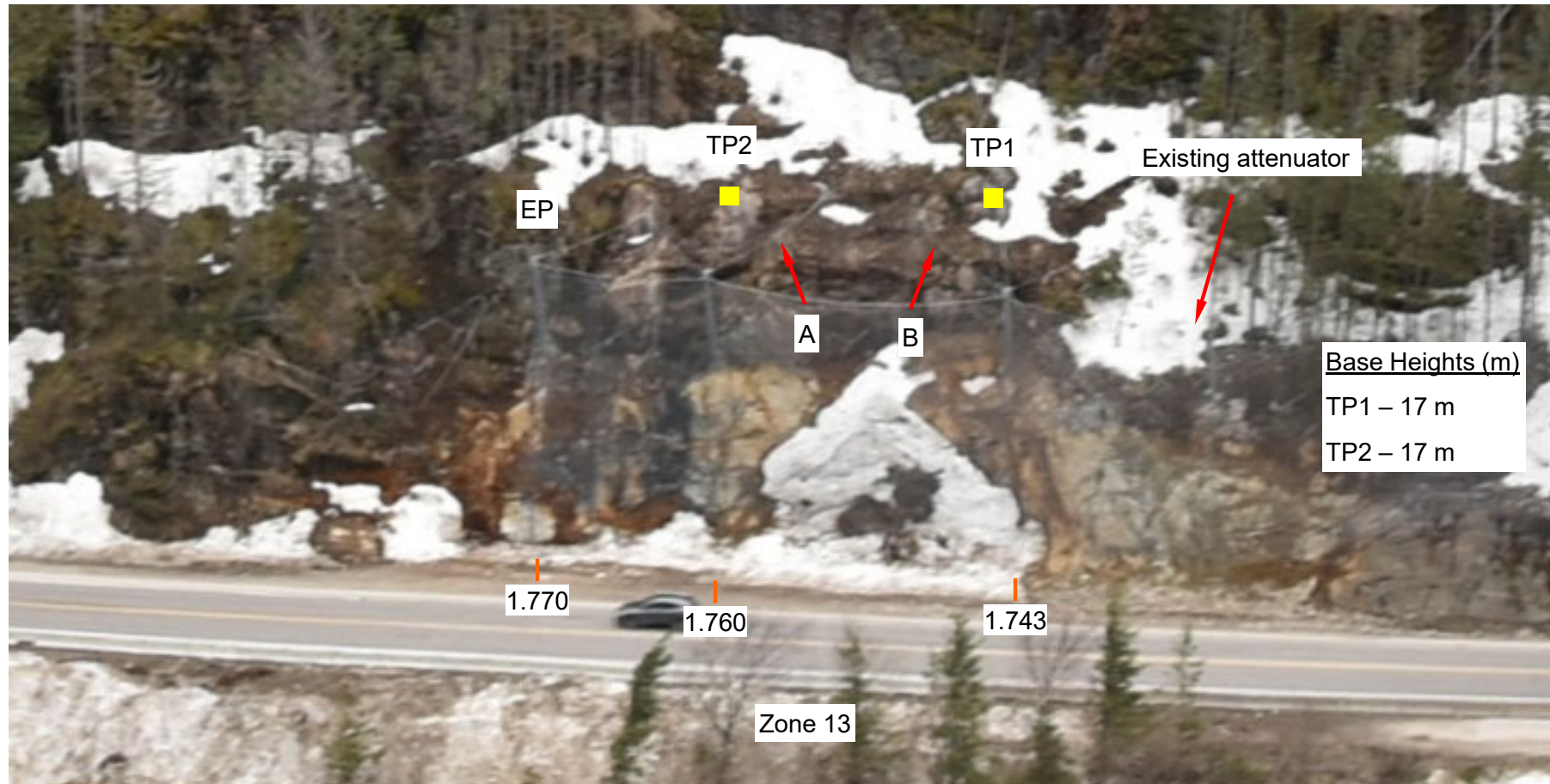


Photo #5: View of site showing location of proposed work

EP = Existing post

Ref# 12708 SCP Mar 23, 2022

File: 0252\_Three\_Valley\_Gap\_Photos\_19\_5\_Proposed\_Work\_Mar\_23\_2022.pptx

March 23, 2022

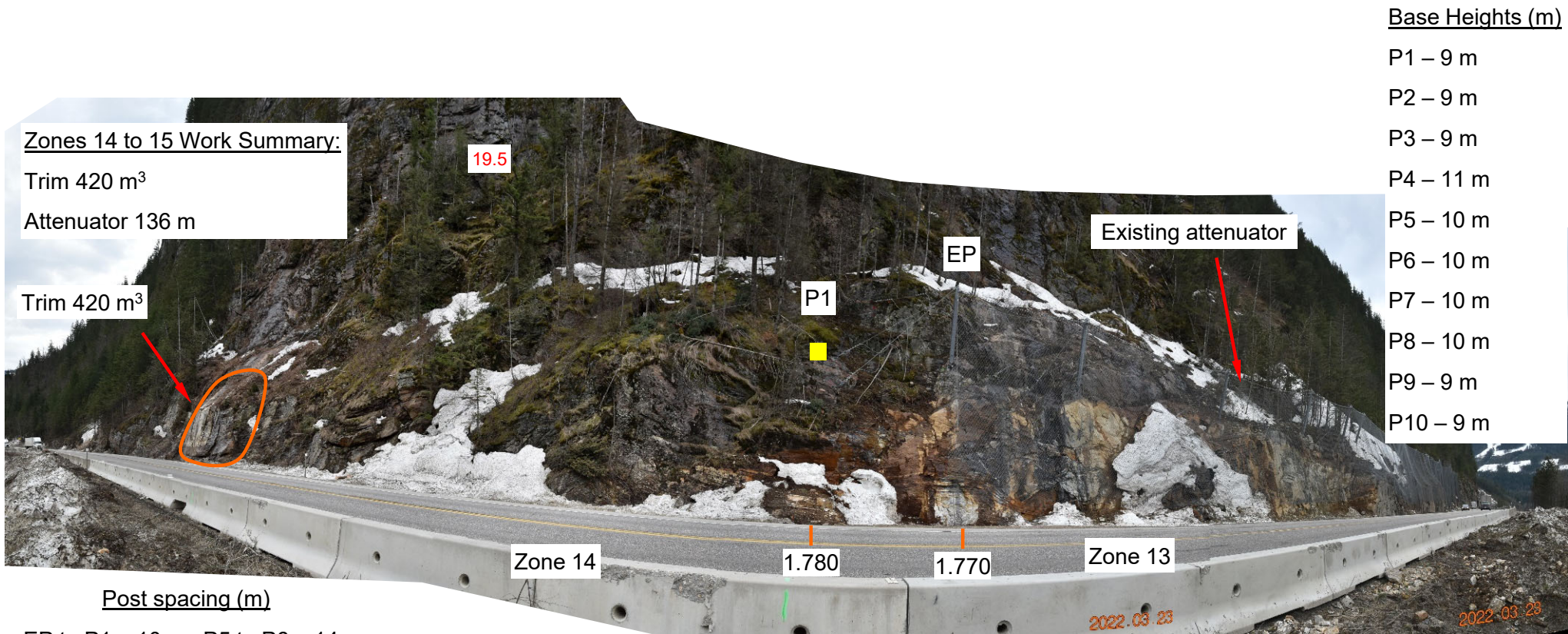
Proposed bases for TP1 and TP2 to be about the same elevation as existing tieback anchors

Remove two existing internal tieback cables labelled A and B

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Base Heights (m)

- P1 – 9 m
- P2 – 9 m
- P3 – 9 m
- P4 – 11 m
- P5 – 10 m
- P6 – 10 m
- P7 – 10 m
- P8 – 10 m
- P9 – 9 m
- P10 – 9 m

Post spacing (m)

- EP to P1 – 10 m    P5 to P6 – 14 m
- P1 to P2 – 10 m    P6 to P7 – 13 m
- P2 to P3 – 13 m    P7 to P8 – 16 m
- P3 to P4 – 16 m    P8 to P9 – 11 m
- P4 to P5 – 21 m    P9 to P10 – 12 m

Photos #6: View of site showing location of proposed work

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EP = Existing post

Posts P1 to P10 are 5 m long from 3000 kJ catch fence system  
 Post base height above pavement is 9 m to 11 m. Post spacing is 10 m to 21 m as shown.

Primary and secondary net height is 12 m. Primary net goes on the inside (closest to bluff) and secondary net on the outside.



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Photos #7: View of site showing location of proposed work

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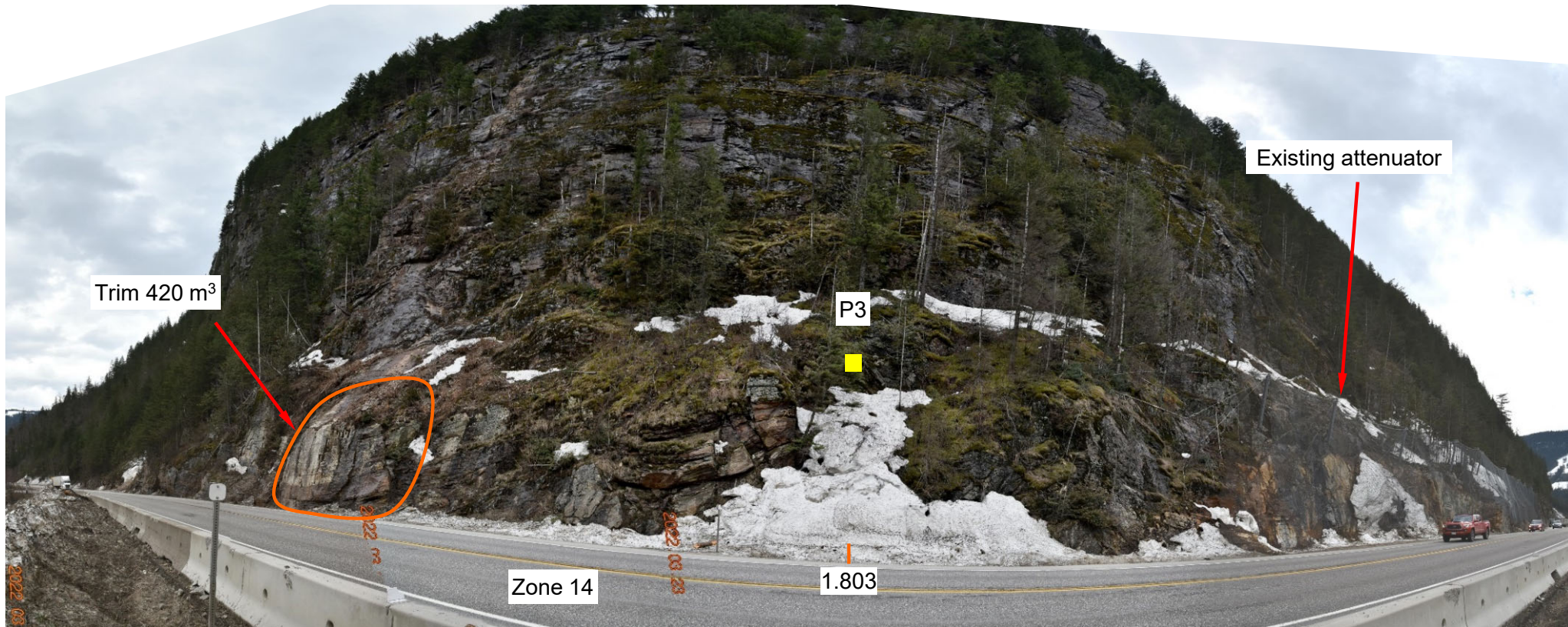


Three Valley Gap Bluff Zones 13 to 15, Highway #1

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Photos #8: View of site showing location of proposed work

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Three Valley Gap Bluff Zones 13 to 15, Highway #1

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Photos #9: View of site showing location of proposed work

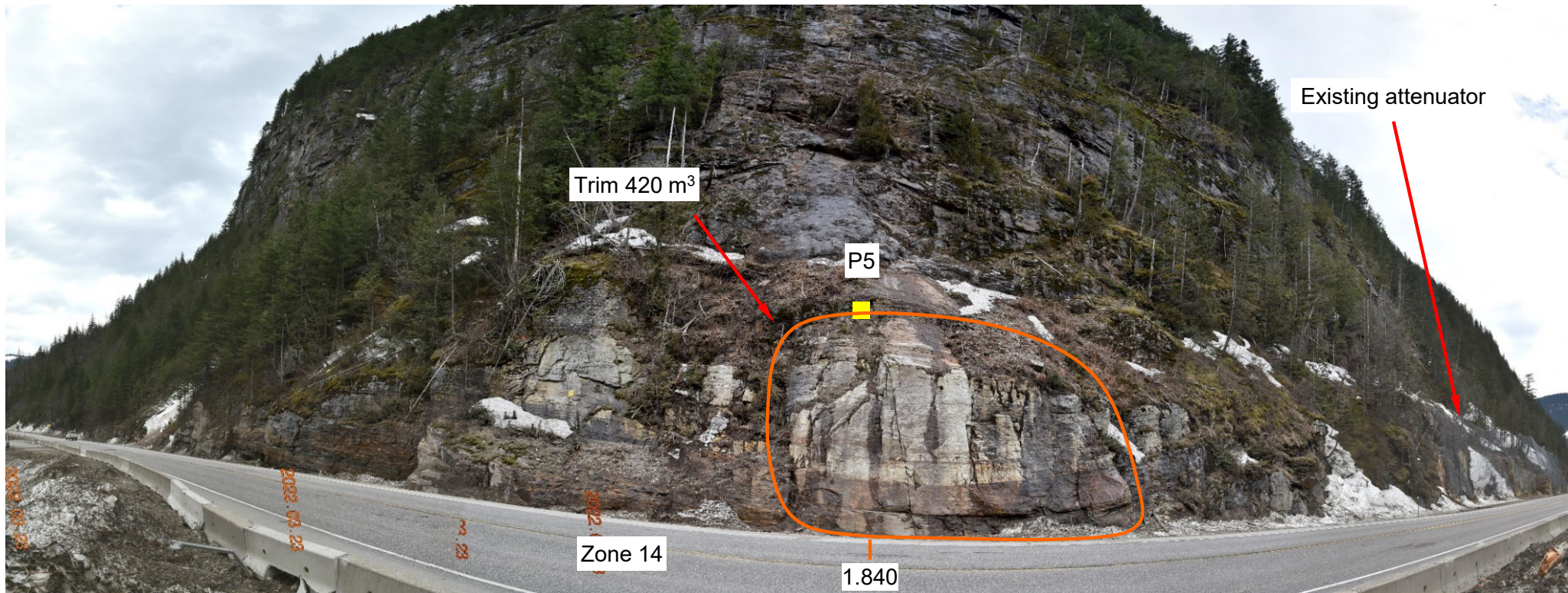
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Three Valley Gap Bluff Zones 13 to 15, Highway #1

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Photos #10: View of site showing location of proposed work

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File: 0252\_Three\_Valley\_Gap\_Photos\_19\_5\_Proposed\_Work\_Mar\_23\_2022.pptx

March 23, 2022

Excavate rock to level of existing ditch bottom

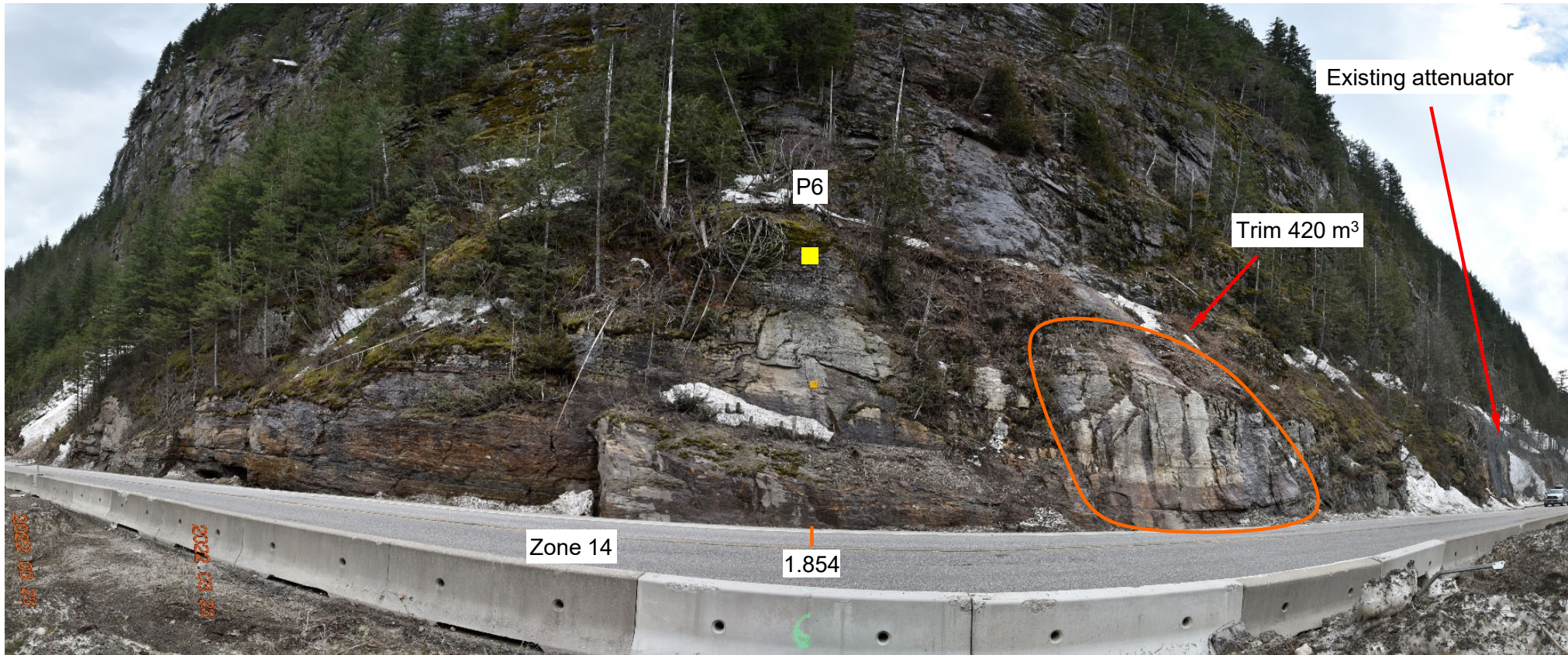
Rock excavation shatter zone to be 1 m below ditch bottom



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Photos #11: View of site showing location of proposed work

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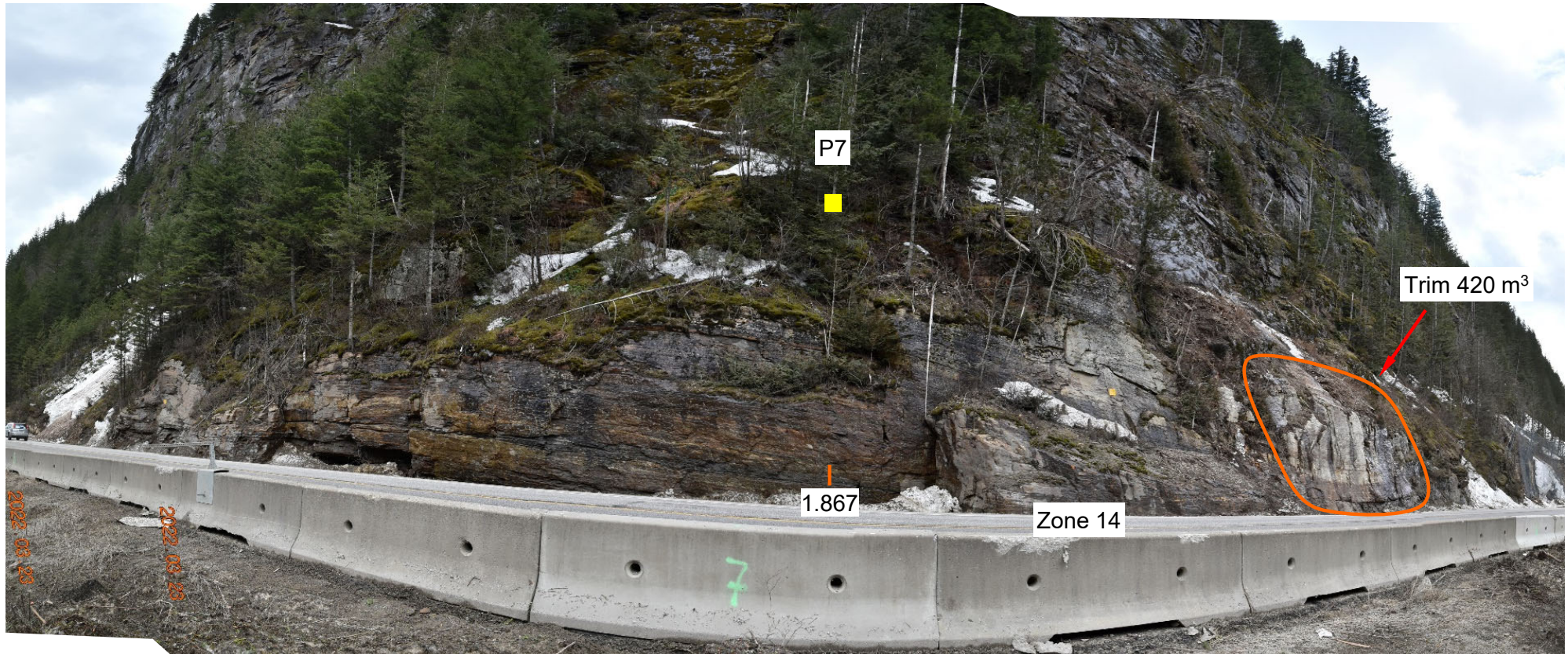


Three Valley Gap Bluff Zones 13 to 15, Highway #1

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Photos #12: View of site showing location of proposed work

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March 23, 2022

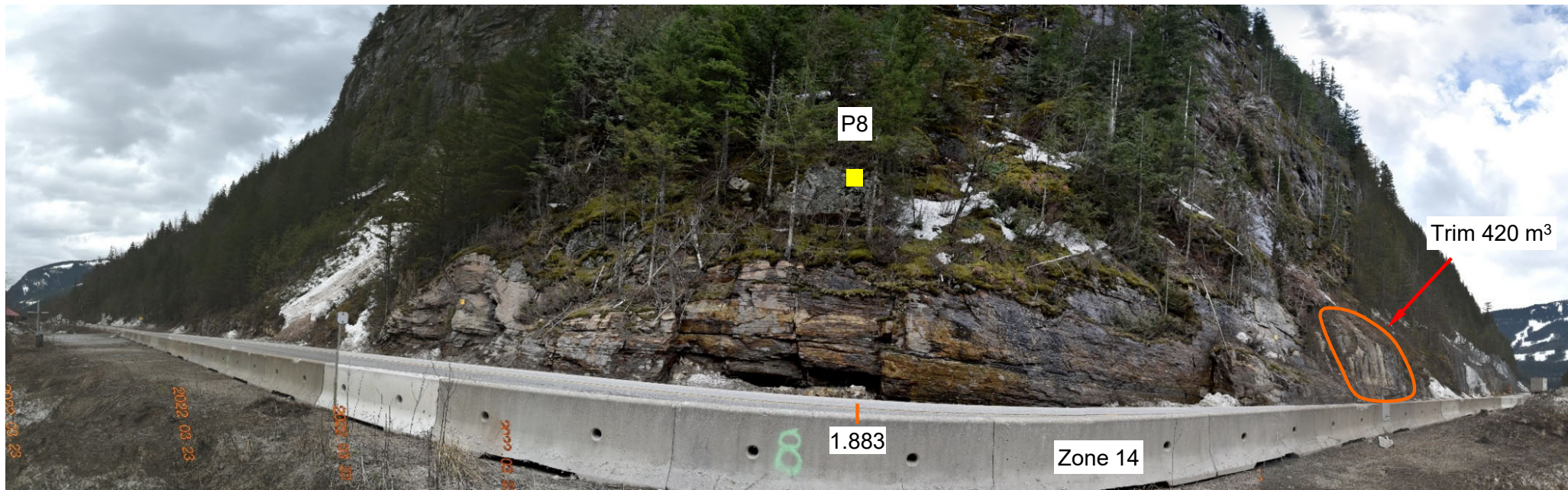


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Photos #13: View of site showing location of proposed work

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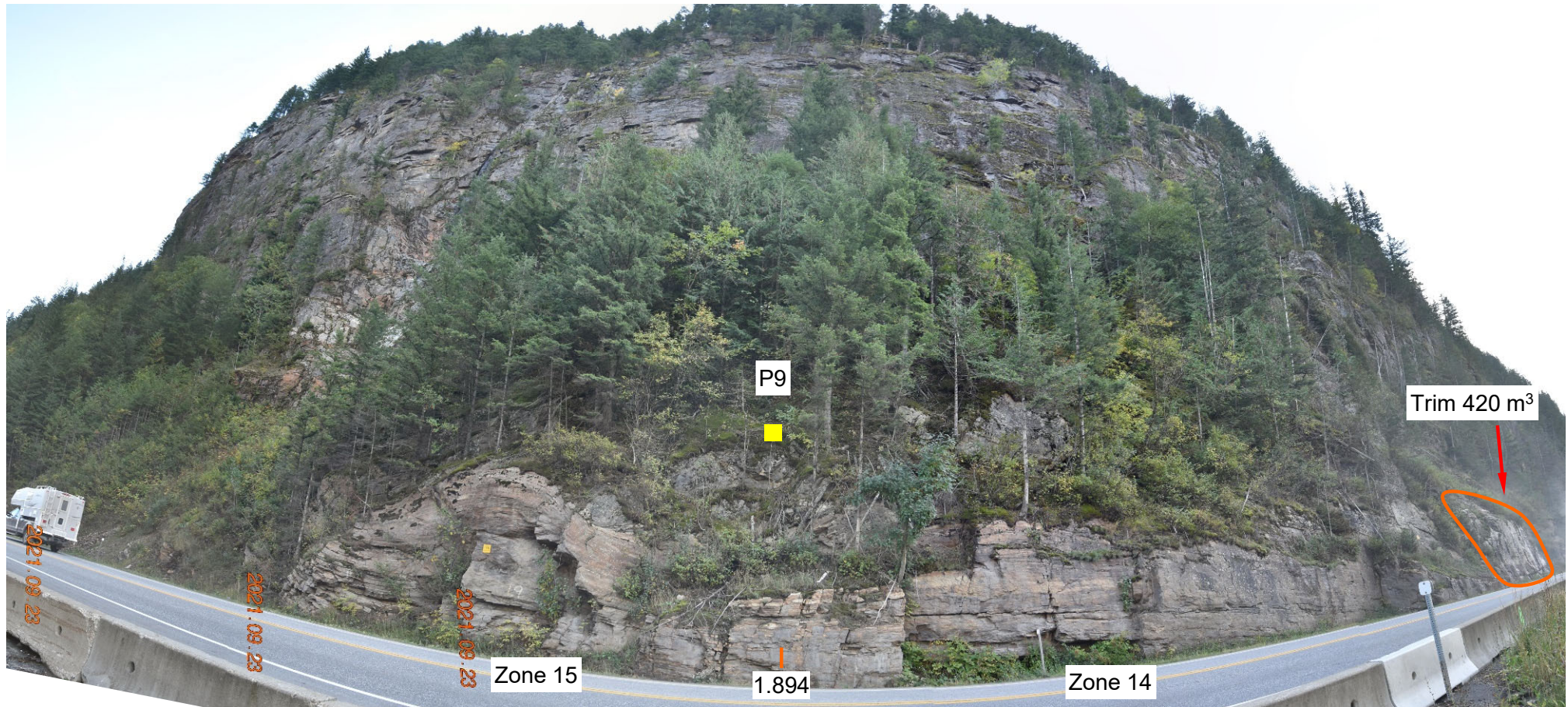


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Photos #14: View of site showing location of proposed work

Ref# 12581 Sep 23, 2021

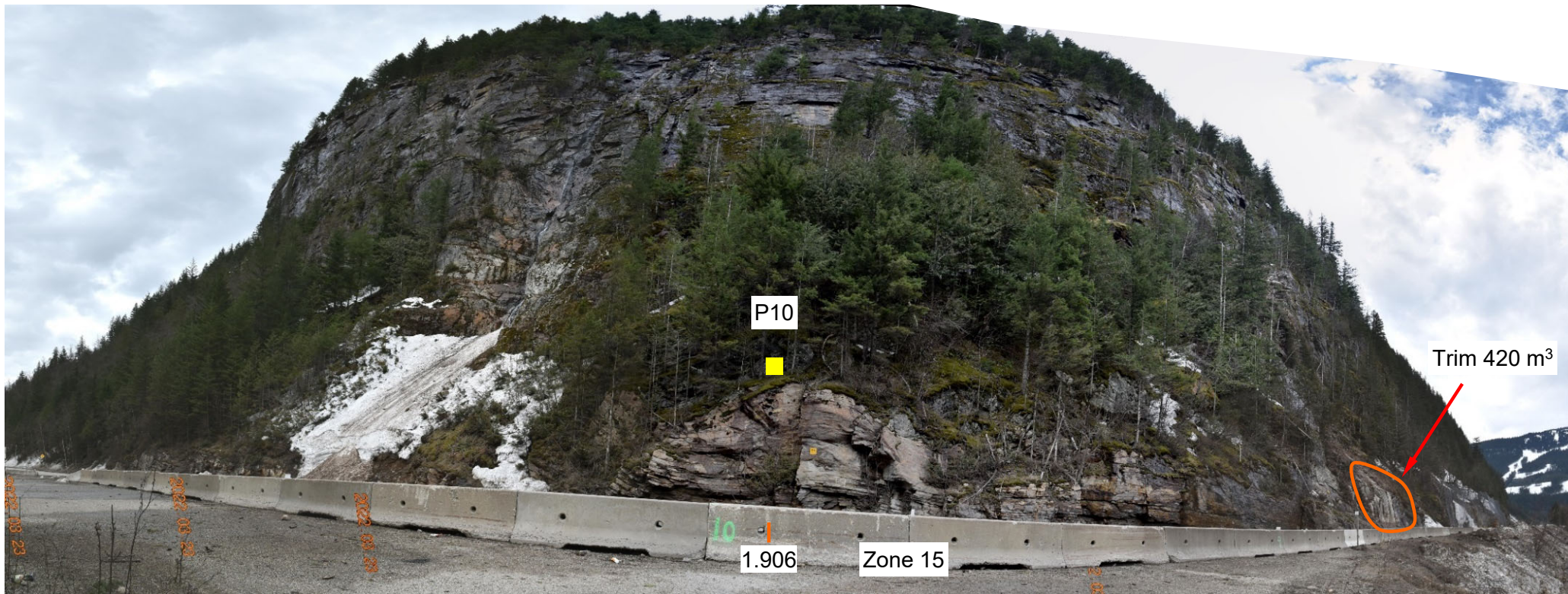


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Photos #15: View of site showing location of proposed work

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