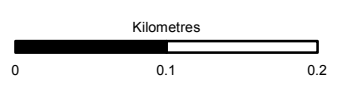


Mainline Option 2 (Combination of Northbound and Southbound Widening)

Bedrock Geology

- CEHI-PSAMM CENTRAL HIGHLAND MIGMATITE COMPLEX - PSAMMITE
- DAVA-PSFGM DAVA SUBGROUP - PSAMMITE, FELDSPATHIC-GNEISSO...



Status: FINAL Sustainability: B

Client: **TRANSPORT SCOTLAND**
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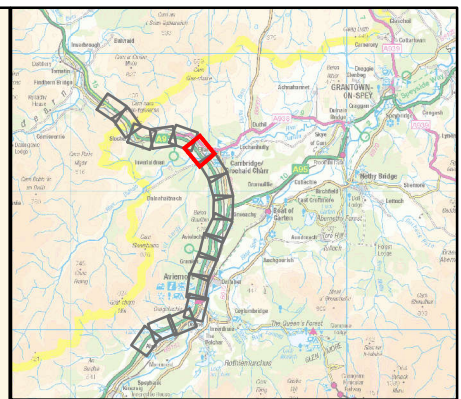
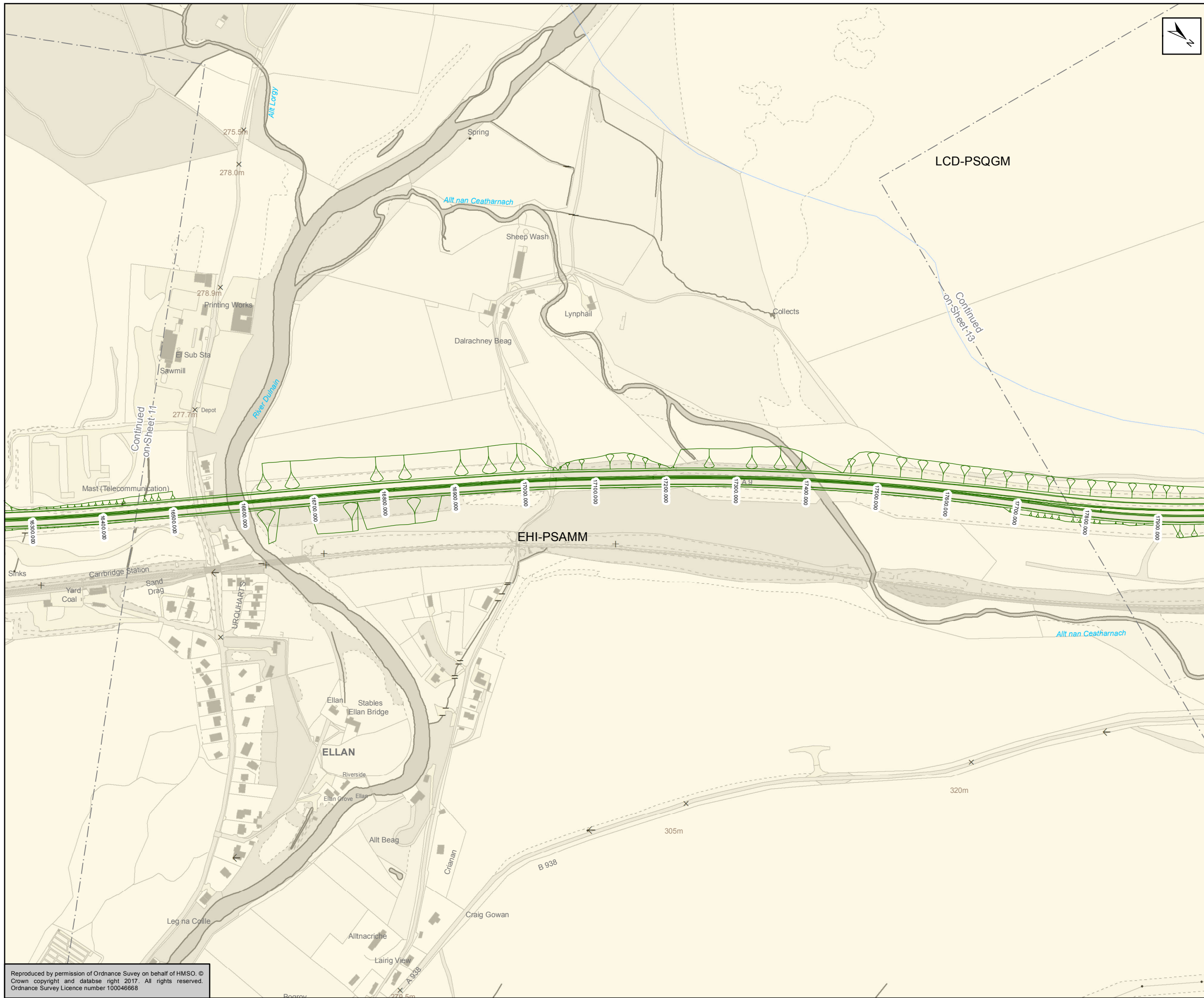


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Figure 5.27k
 Mainline Alignment Option 2
 Solid Geology
 Sheet 11 of 17

Scale: 1:5,000	Drawn: JD	Checked: KP	Approved: MD	Authorised: RG
Document Number: A9P11-AMJ-EGT-F_ZZZZZ_XX-DR-GI-0029	Project Originator: Volume	Revision: P03		
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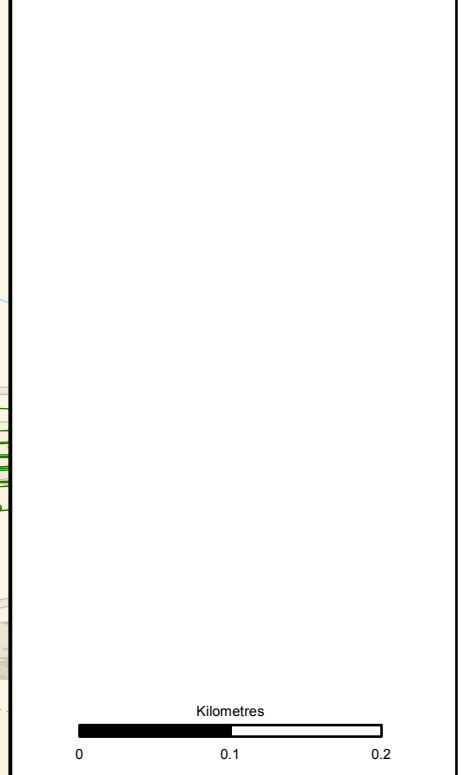
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Mainline Option 2 (Combination of Northbound and Southbound Widening)

Bedrock Geology

- CEHI-PSAMM CENTRAL HIGHLAND MIGMATITE COMPLEX - PSAMMITE
- SLCD-PSQGM SLOCHD PSAMMITE FORMATION - PSAMMITE, QUARTZOSE-GNEISSOS...



Status: FINAL Suitability: B

Client: **TRANSPORT SCOTLAND**
an agency of The Scottish Government



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Figure 5.271
 Mainline Alignment Option 2
 Solid Geology
 Sheet 12 of 17

Scale	1:5,000	Drawn	JD	Checked	KP	Approved	MD	Authorised	RG
Document Number	A9P11-AMJ-EGT-F_ZZZZZX-DR-GI-0030							Revision	P03
Project	Originator	Volume							
Location	Type	Role	Number						

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EHI-PSAMM

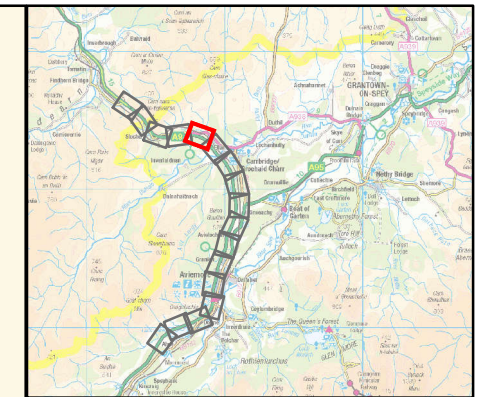
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AVA-PSFGM

LCD-PSQGM

Continued on Sheet 12

Continued on Sheet 14

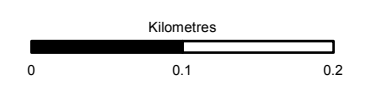


Mainline Option 2 (Combination of Northbound and Southbound Widening)

Black Mount Junction Options (Northbound Widening)

- D02 - Diamond with Left-Right Stagger
- D07 - Half Cloverleaf - Quadrants 2 & 4
- D13 - Restricted Movements Diamond

- Bedrock Geology
- CEHI-PSAMM CENTRAL HIGHLAND MIGMATITE COMPLEX - PSAMMITE
 - DAVA-PSFGM DAVA SUBGROUP - PSAMMITE, FELDSPATHIC-GNEISSO...
 - SLCD-PSQGM SLOCHD PSAMMITE FORMATION - PSAMMITE, QUARTZOSE-GNEISSO...



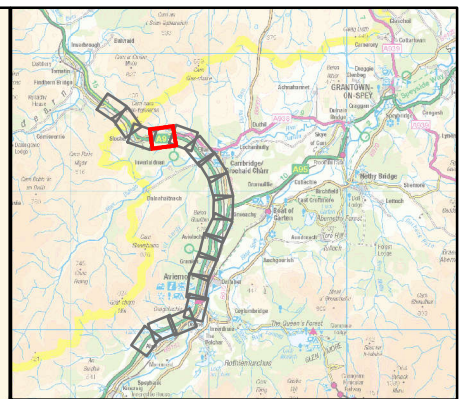
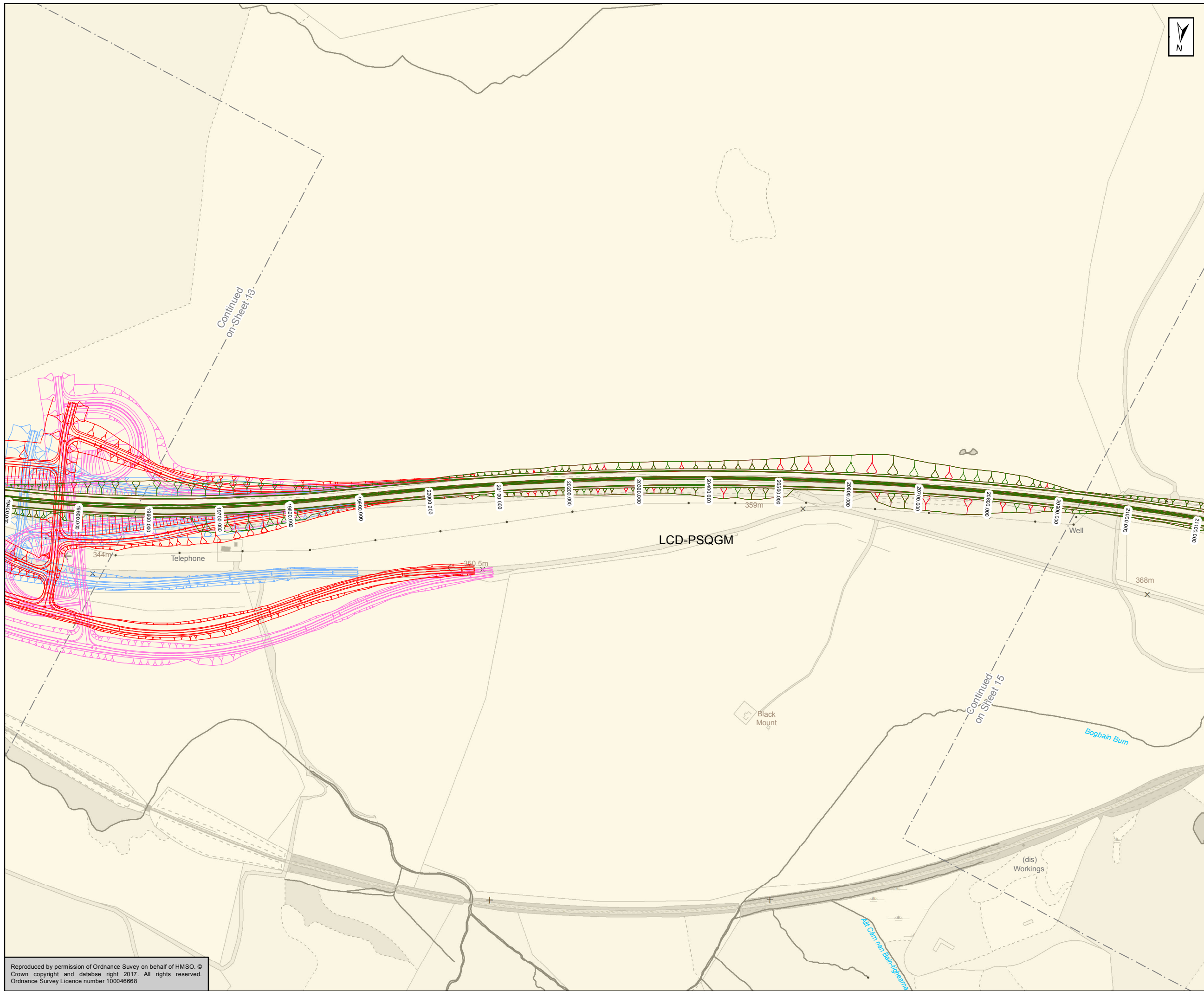
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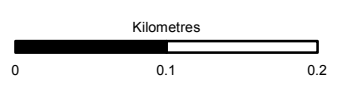
Figure 5.27m
Mainline Alignment Option 2
Solid Geology
Sheet 13 of 17

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Project	Originator	Volume							
Location	Type	Role	Number						

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- Mainline Option 2 (Combination of Northbound and Southbound Widening)
- Black Mount Junction Options (Northbound Widening)**
 - D02 - Diamond with Left-Right Stagger
 - D07 - Half Cloverleaf - Quadrants 2 & 4
 - D13 - Restricted Movements Diamond
- Bedrock Geology**
 - SLCD-PSQGM SLOCHD PSAMMITE FORMATION - PSAMMITE, QUARTZOSE-GNEISSOS...



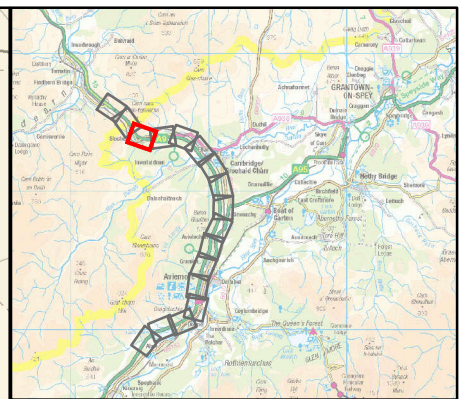
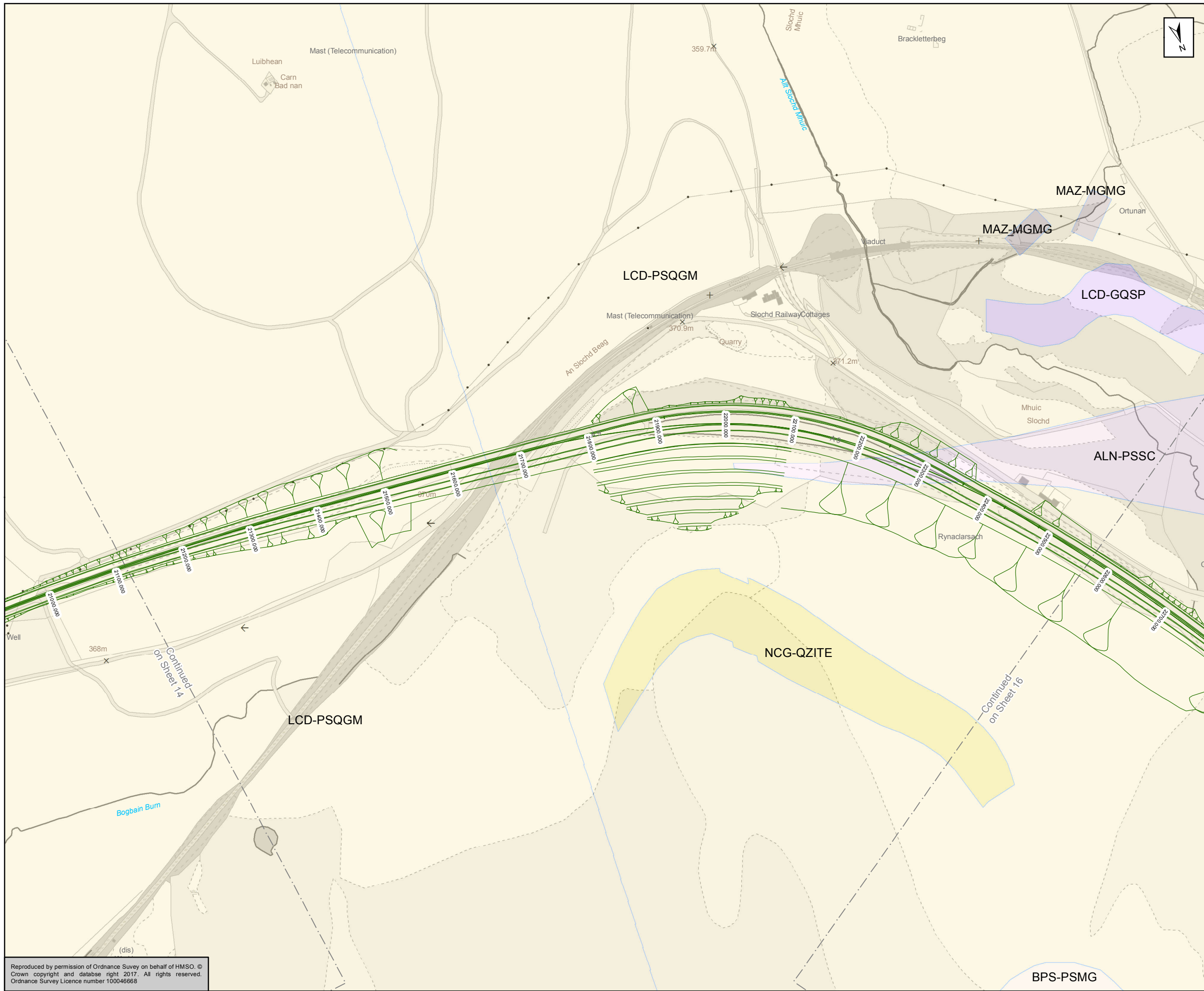
Status	FINAL	Suitability	B
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Figure 5.27n
Mainline Alignment Option 2
Solid Geology
Sheet 14 of 17

Scale	1:5,000	Drawn	JD	Checked	KP	Approved	MD	Authorised	RG
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Location	Type	Role	Number						

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Mainline Option 2 (Combination of Northbound and Southbound Widening)

Bedrock Geology

- BBPS-PSMG BEINN BHREAC PSAMMITE FORMATION - PSAMMITE GNEISSOSE-MICACEOUS
- DALN-PSSC DALRADIAN SUPERGROUP - PSAMMITE, SEMIPELITE AND CALCILICATE-ROCK
- KNCG-QZITE KINCRAIG FORMATION - QUARTZITE
- SLCD-GQSP SLOCHD PSAMMITE FORMATION - GNEISSOSE QUARTZITE AND GNEISSOSE SEMIPELITE
- SLCD-PSQGM SLOCHD PSAMMITE FORMATION - PSAMMITE, QUARTZOSE-GNEISSOS...
- UNNAMED METAMORPHIC ROCKS
- UMAZ-MGMG NEOPROTEROZOIC - METAGABBRO AND METAMICROGABBRO

Kilometres
0 0.1 0.2

Status	FINAL	Suitability	B
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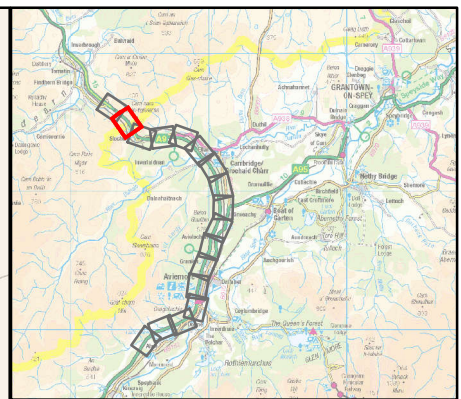
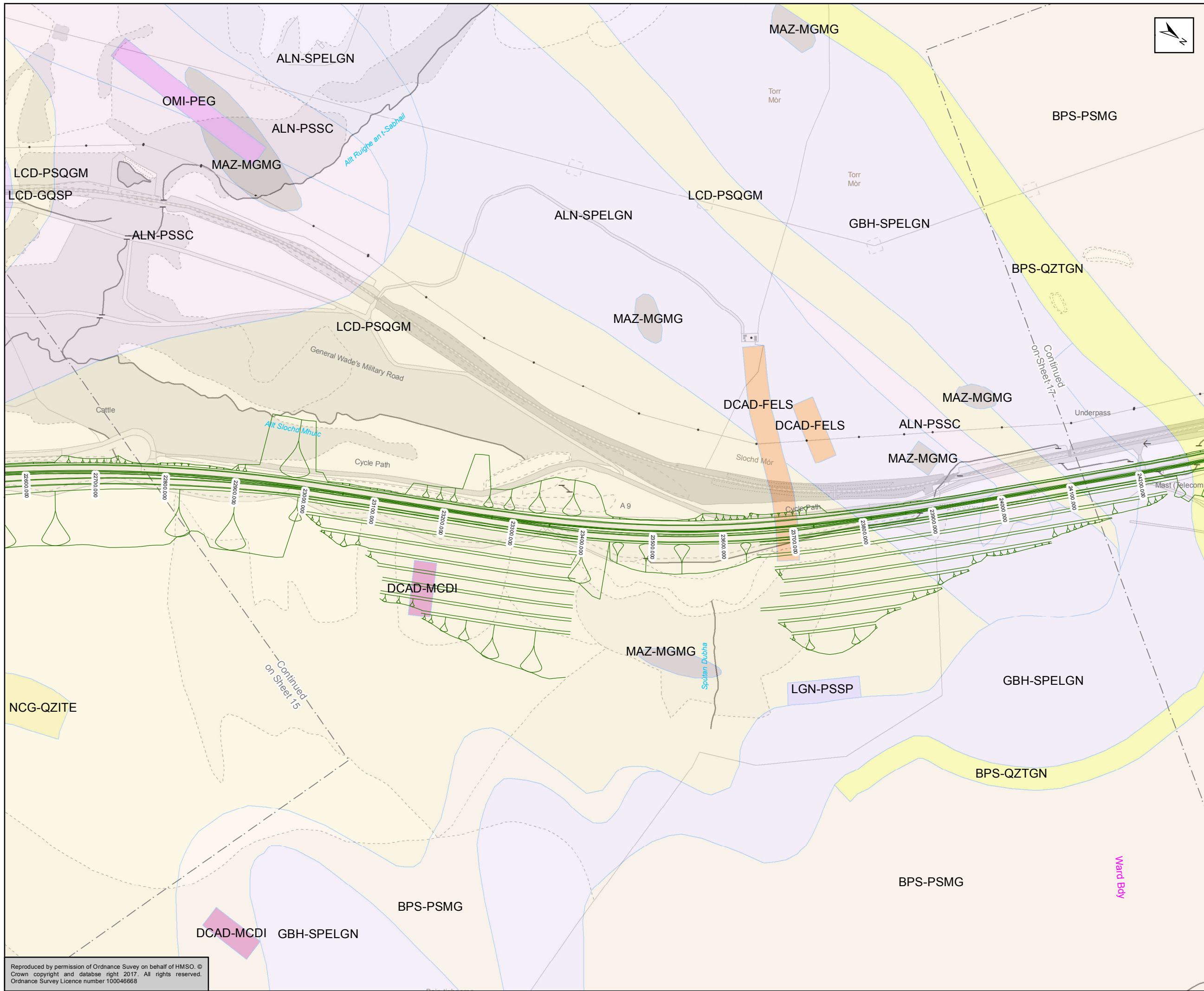
A9 DUALING
PERTH TO INVERNESS
Dalraddy to Slochd

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Figure 5.27o
Mainline Alignment Option 2
Solid Geology
Sheet 15 of 17

Scale	1:5,000	Drawn	JD	Checked	KP	Approved	MD	Authorised	RG
Document Number	A9P11-AMJ-EGT-F_ZZZZZX-DR-GI-0033							Revision	P03
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Location	Type	Role	Number						

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Mainline Option 2 (Combination of Northbound and Southbound Widening)

Bedrock Geology

SDCAD-FELS	NORTH BRITAIN SILURO-DEVONIAN CALC-ALKALINE DYKE SUITE - FELSITE
SDCAD-MCDI	NORTH BRITAIN SILURO-DEVONIAN CALC-ALKALINE DYKE SUITE - MICRODIORITE
HOMI-PEG	SCOTTISH HIGHLAND ORDOVICIAN MINOR INTRUSION SUITE - PEGMATITE
BBPS-PSMG	BEINN BHREAC PSAMMITE FORMATION - PSAMMITE, GNEISSOSE-MICACEOUS
BBPS-QZTGN	BEINN BHREAC PSAMMITE FORMATION - QUARTZITE, GNEISSOSE
CGBH-SPELGN	CREAG BUIDHE SEMIPELITE FORMATION - SEMIPELITE, GNEISSOSE
DALN-PSSC	DALRADIAN SUPERGROUP - PSAMMITE, SEMIPELITE AND CALC-SILICATE-ROCK
DALN-SPELGN	DALRADIAN SUPERGROUP - SEMIPELITE, GNEISSOSE
KNGC-QZITE	KINCRAIG FORMATION - QUARTZITE
LLGN-PSSP	LOCH LAGGAN PSAMMITE FORMATION - PSAMMITE AND SEMIPELITE
SLCD-GQSP	SLOCHD PSAMMITE FORMATION - GNEISSOSE QUARTZITE AND GNEISSOSE SEMIPELITE
SLCD-PSQGM	SLOCHD PSAMMITE FORMATION - PSAMMITE, QUARTZOSE-GNEISSOS...
UMAZ-MGMG	UNNAMED METAMORPHIC ROCKS, NEOPROTEROZOIC - METAGABBRO AND METAMICROGABBRO

Kilometres

0 0.1 0.2

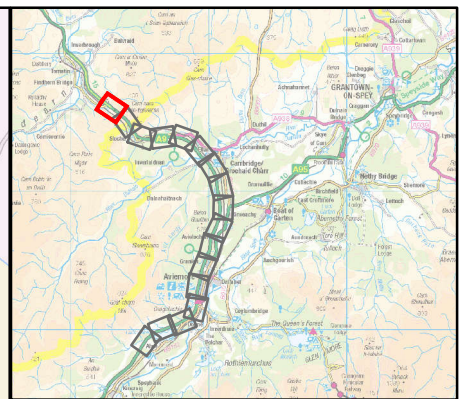
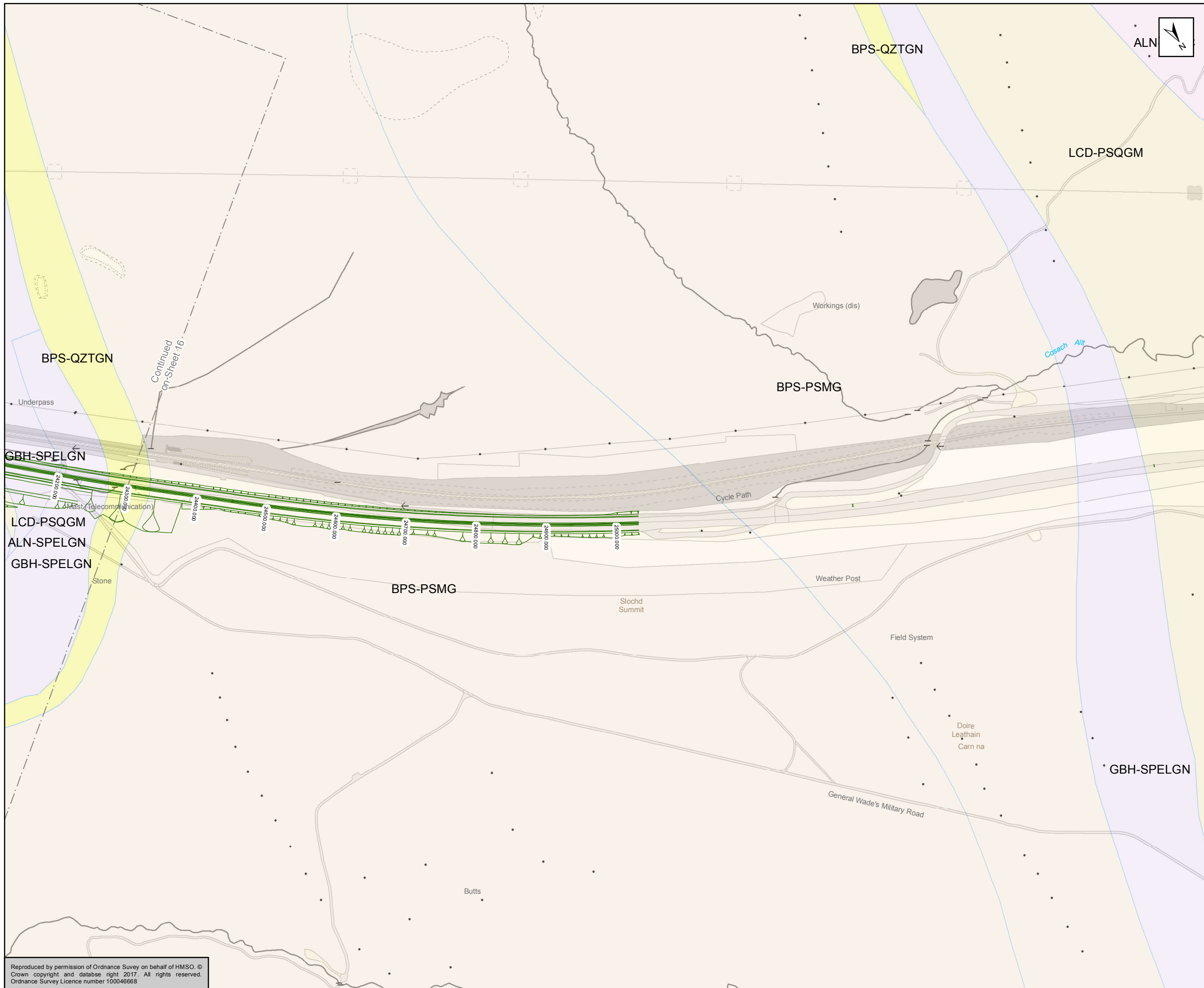
Status	FINAL	Suitability	B
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Figure 5.27p
Mainline Alignment Option 2
Solid Geology
Sheet 16 of 17

Scale	1:5,000	Drawn	JD	Checked	KP	Approved	MD	Authorised	RG	
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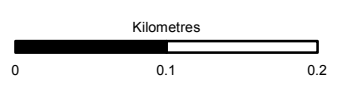
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Mainline Option 2 (Combination of Northbound and Southbound Widening)

Bedrock Geology

BBPS-PSMG	BEINN BHREAC PSAMMITE FORMATION - PSAMMITE, GNEISSOSE-MICACEOUS
BBPS-QZTGN	BEINN BHREAC PSAMMITE FORMATION - QUARTZITE, GNEISSOSE
CGBH-SPELGN	CREAG BUIDHE SEMIPELITE FORMATION - SEMIPELITE, GNEISSOSE
DALN-PSSC	DALRADIAN SUPERGROUP - PSAMMITE, SEMIPELITE AND CALCSILICATE-ROCK
DALN-SPELGN	DALRADIAN SUPERGROUP - SEMIPELITE, GNEISSOSE
SLCD-PSQGM	SLOCHD PSAMMITE FORMATION - PSAMMITE, QUARTZOSE-GNEISSOS...



Status	FINAL	Suitability	B
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Figure 5.27q
Mainline Alignment Option 2
Solid Geology
Sheet 17 of 17

Scale	1:5,000	Drawn	JD	Checked	KP	Approved	MD	Authorised	RG	
Document Number	A9P11-AMJ-EGT-F_ZZZZZ_XX-DR-GI-0035								Revision	P03
Project	Originator	Volume								
Location	Type	Role	Number							

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