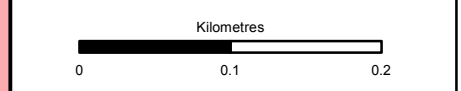


Mainline Option 2 (Combination of Northbound and Southbound Widening)

Bedrock Geology

MNDL1-GNP	MONADHLIATH PLUTON, PHASE 1 - GRANITE, PORPHYRITIC
MNDL2-MZGNB	MONADHLIATH PLUTON, PHASE 2 - MONZOGRANITE, BIOTITE
MNDL3-MCGN	MONADHLIATH PLUTON, PHASE 3 - MICROGRANITE
MNDL4-MCGNAP	MONADHLIATH PLUTON, PHASE 4 - MICROGRANITE, APLITIC-PORPHYRITIC
LLGN-PSAMI	LOCH LAGGAN PSAMMITE FORMATION - PSAMMITE, MICACEOUS



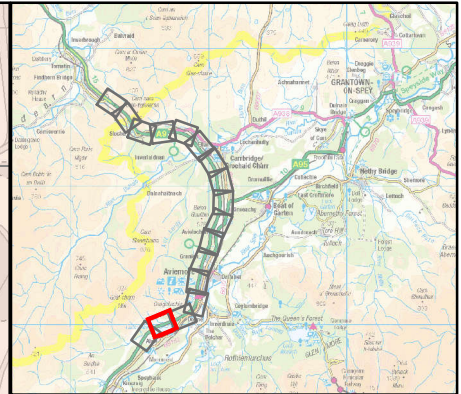
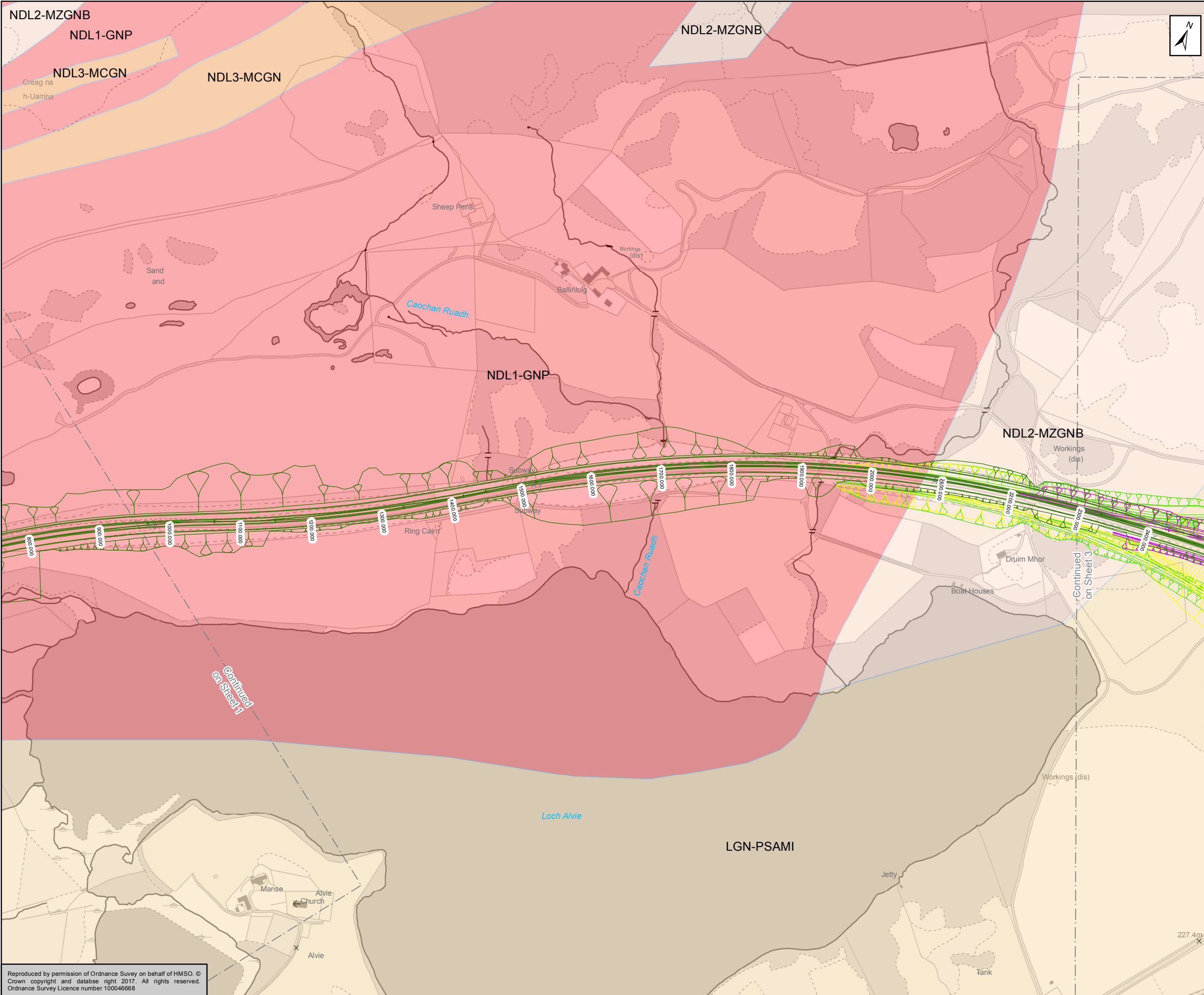
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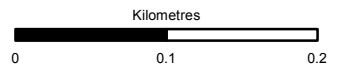
Figure 5.27a
Mainline Alignment Option 2
Solid Geology
Sheet 1 of 17

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

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- Mainline Option 2** (Combination of Northbound and Southbound Widening)
- Aviemore South Junction Options (Southbound Widening)**
- A02 - Half Cloverleaf - Quadrants 1 & 4
 - A09 - Diamond Left Right with Ghost Island
 - A18 - Left Right Stagger with B9152 Realigned
- Bedrock Geology**
- MNDL1-GNP: MONADHLIATH PLUTON, PHASE 1 - GRANITE, PORPHYRITIC
 - MNDL2-MZGNB: MONADHLIATH PLUTON, PHASE 2 - MONZOGRANITE, BIOTITE
 - MNDL3-MCGN: MONADHLIATH PLUTON, PHASE 3 - MICROGRANITE
 - LLGN-PSAMI: LOCH LAGGAN PSAMMITE FORMATION - PSAMMITE, MICACEOUS



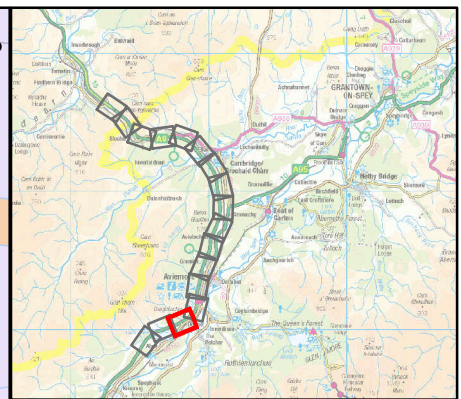
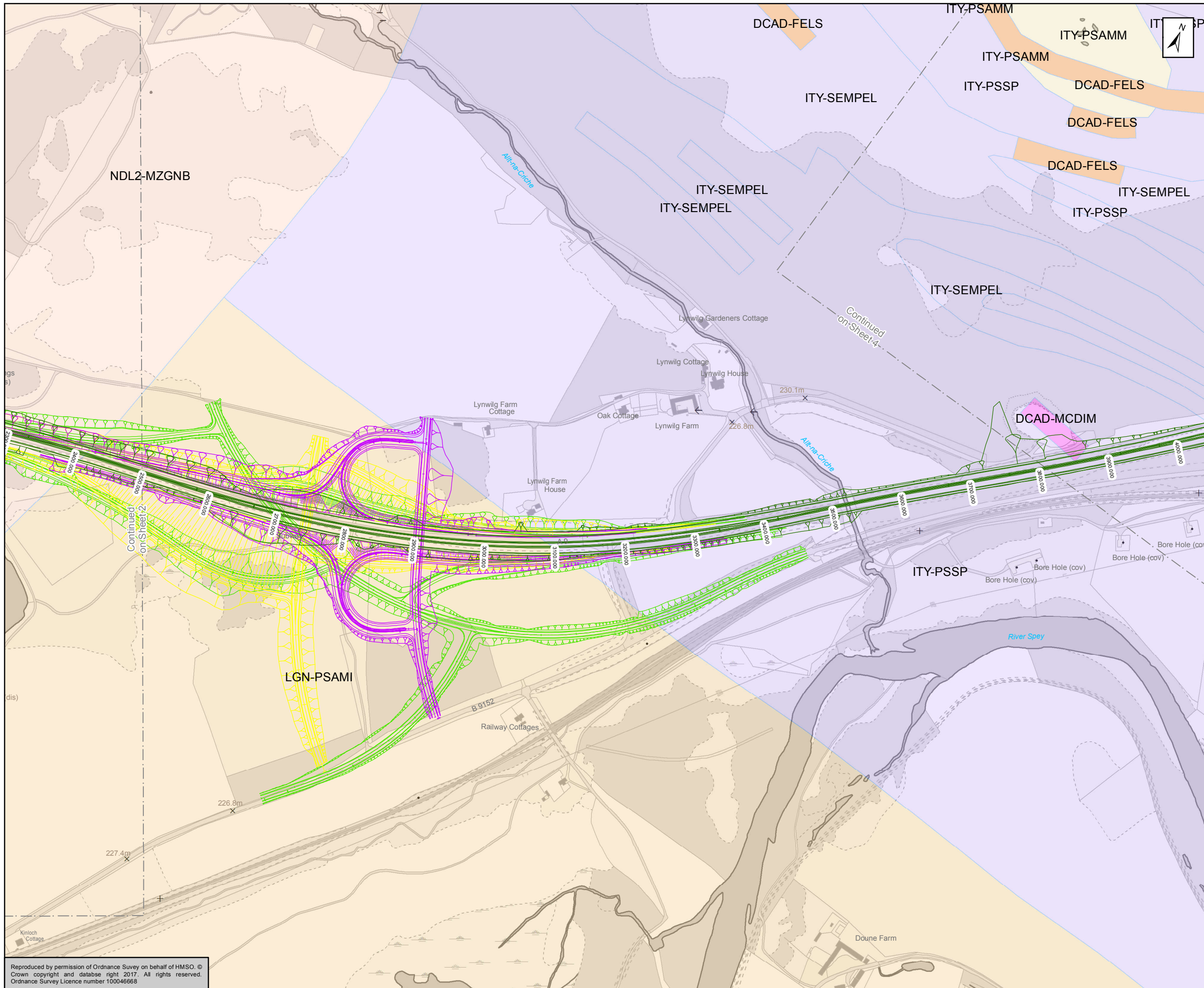
Status	FINAL	Suitability	B
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Figure 5.27b
Mainline Alignment Option 2
Solid Geology
Sheet 2 of 17

Scale	1:5,000	Drawn	JD	Checked	KP	Approved	MD	Authorised	RG
Document Number	A9P11-AMJ-EGT-F_ZZZZZ_XX-DR-GI-0020							Revision	P03
Project	Originator	Volume							
Location	Type	Role	Number						

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Mainline Option 2 (Combination of Northbound and Southbound Widening)

Aviemore South Junction Options (Southbound Widening)

- A02 - Half Cloverleaf - Quadrants 1 & 4
- A09 - Diamond Left Right with Ghost Island
- A18 - Left Right Stagger with B9152 Realigned

Bedrock Geology

- MNDL2-MZGNB: MONADHLIATH PLUTON, PHASE 2 - MONZOGRANITE, BIOTITE
- SDCAD-FELS: NORTH BRITAIN SILURO-DEVONIAN CALC-ALKALINE DYKE SUITE - FELSITE
- SDCAD-MCDIM: NORTH BRITAIN SILURO-DEVONIAN CALC-ALKALINE DYKE SUITE - MELAMICRODIORITE
- LLGN-PSAMI: LOCH LAGGAN PSAMMITE FORMATION - PSAMMITE, MICACEOUS
- PITY-PSAMM: PITYOULISH FORMATION - PSAMMITE
- PITY-PSSP: PITYOULISH FORMATION - PSAMMITE AND SEMIPELITE
- PITY-SEMPEL: PITYOULISH FORMATION - SEMIPELITE

Kilometres
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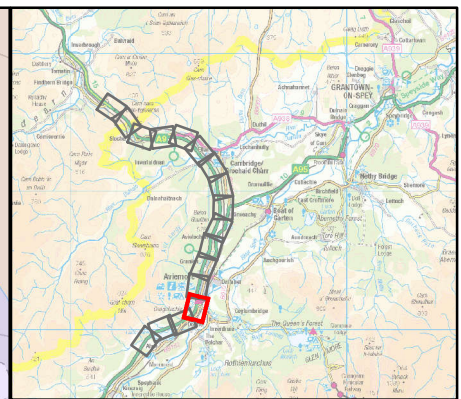
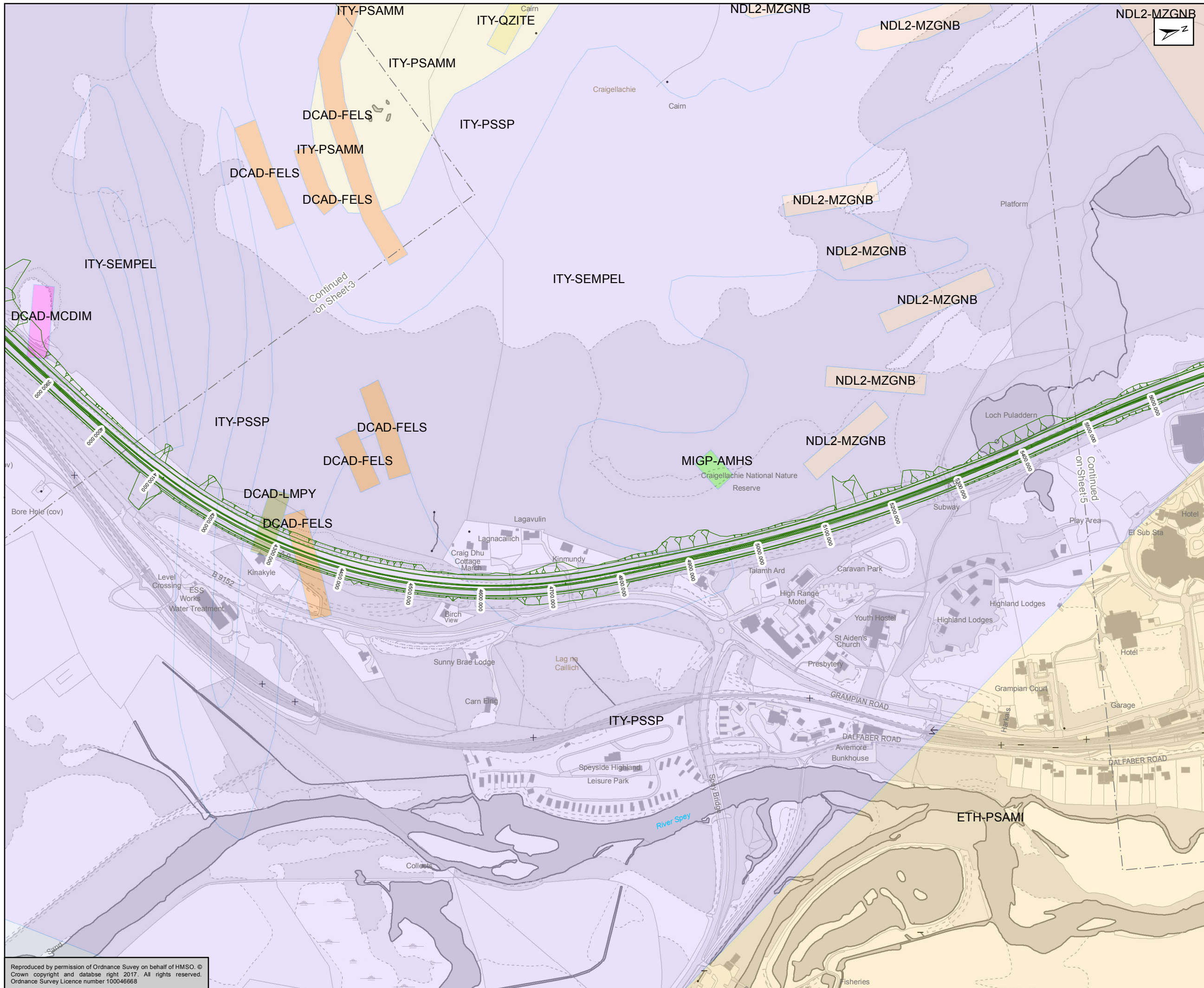
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Figure 5.27c
Mainline Alignment Option 2
Solid Geology
Sheet 3 of 17

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Project	Originator	Volume								
Location	Type	Role	Number							

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Mainline Option 2 (Combination of Northbound and Southbound Widening)

Bedrock Geology

- NDL2-MZGNB MONADHLIATH PLUTON, PHASE 2 - MONZOGRANITE, BIOTITE
- SDCAD-FELS NORTH BRITAIN SILURO-DEVONIAN CALC-ALKALINE DYKE SUITE - FELSITE
- SDCAD-LMPY NORTH BRITAIN SILURO-DEVONIAN CALC-ALKALINE DYKE SUITE - LAMPROPHYRES
- SDCAD-MCDIM NORTH BRITAIN SILURO-DEVONIAN CALC-ALKALINE DYKE SUITE - MELAMICRODIORITE
- DAVA-GPSP DAVA SUBGROUP - GNEISSOSE PSAMMITE AND GNEISSOSE SEMPELITE
- NETH-PSAMI NETHYBRIDGE PSAMMITE FORMATION - PSAMMITE, MICACEOUS
- PITY-PSAMM PITYOULISH FORMATION - PSAMMITE
- PITY-PSSP PITYOULISH FORMATION - PSAMMITE AND SEMPELITE
- PITY-QZITE PITYOULISH FORMATION - QUARTZITE
- PITY-SEMPEL PITYOULISH FORMATION - SEMPELITE
- UMIGP-AMHS UNNAMED METAMORPHOSED IGNEOUS ROCKS, PRE-CALEDONIAN TO CALEDONIAN - AMPHIBOLITE AND HORNBLLENDE SCHIST

Kilometres

0 0.1 0.2

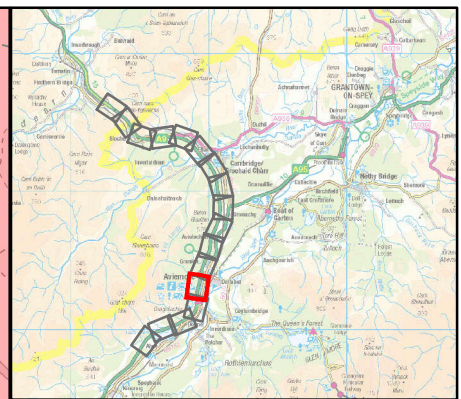
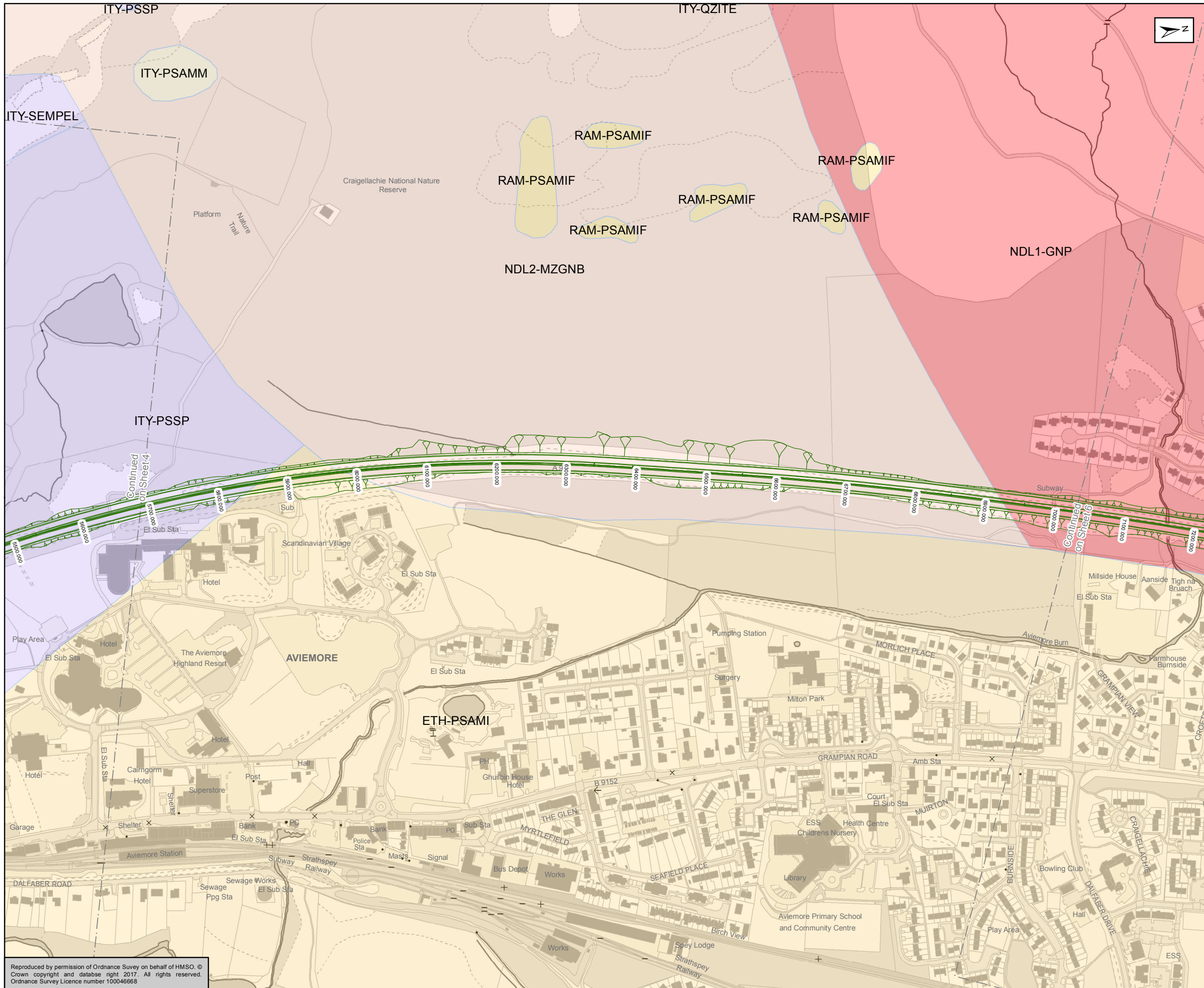
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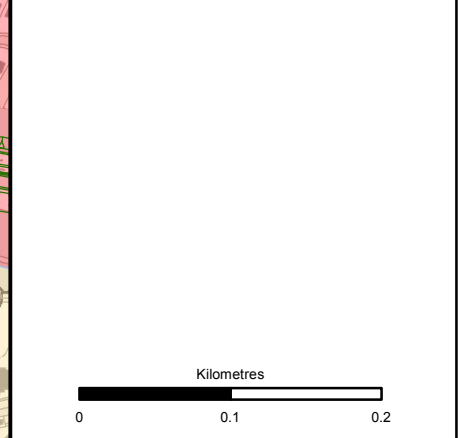
Figure 5.27d
Mainline Alignment Option 2
Solid Geology
Sheet 4 of 17

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Location	Type	Role	Number						

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- Mainline Option 2 (Combination of Northbound and Southbound Widening)**
- Bedrock Geology**
- MNDL1-GNP MONADHLIATH PLUTON, PHASE 1 - GRANITE, PORPHYRITIC
 - MNDL2-MZGNB MONADHLIATH PLUTON, PHASE 2 - MONZOGRANITE, BIOTITE
 - GRAM-PSAMIF GRAMPIAN GROUP - PSAMMITE, MICACEOUS-FLAGGY
 - NETH-PSAMI NETHYBRIDGE PSAMMITE FORMATION - PSAMMITE, MICACEOUS
 - PITY-PSAMM PITYOULISH FORMATION - PSAMMITE
 - PITY-PSSP PITYOULISH FORMATION - PSAMMITE AND SEMIPELITE
 - PITY-QZITE PITYOULISH FORMATION - QUARTZITE
 - PITY-SEMPEL PITYOULISH FORMATION - SEMIPELITE



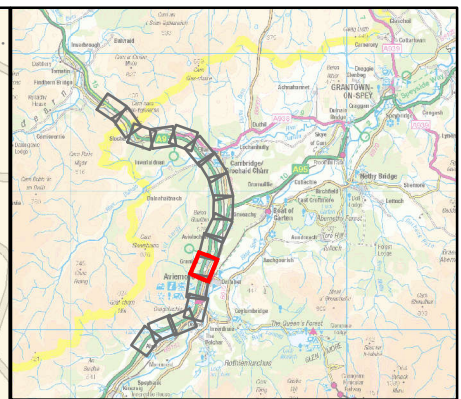
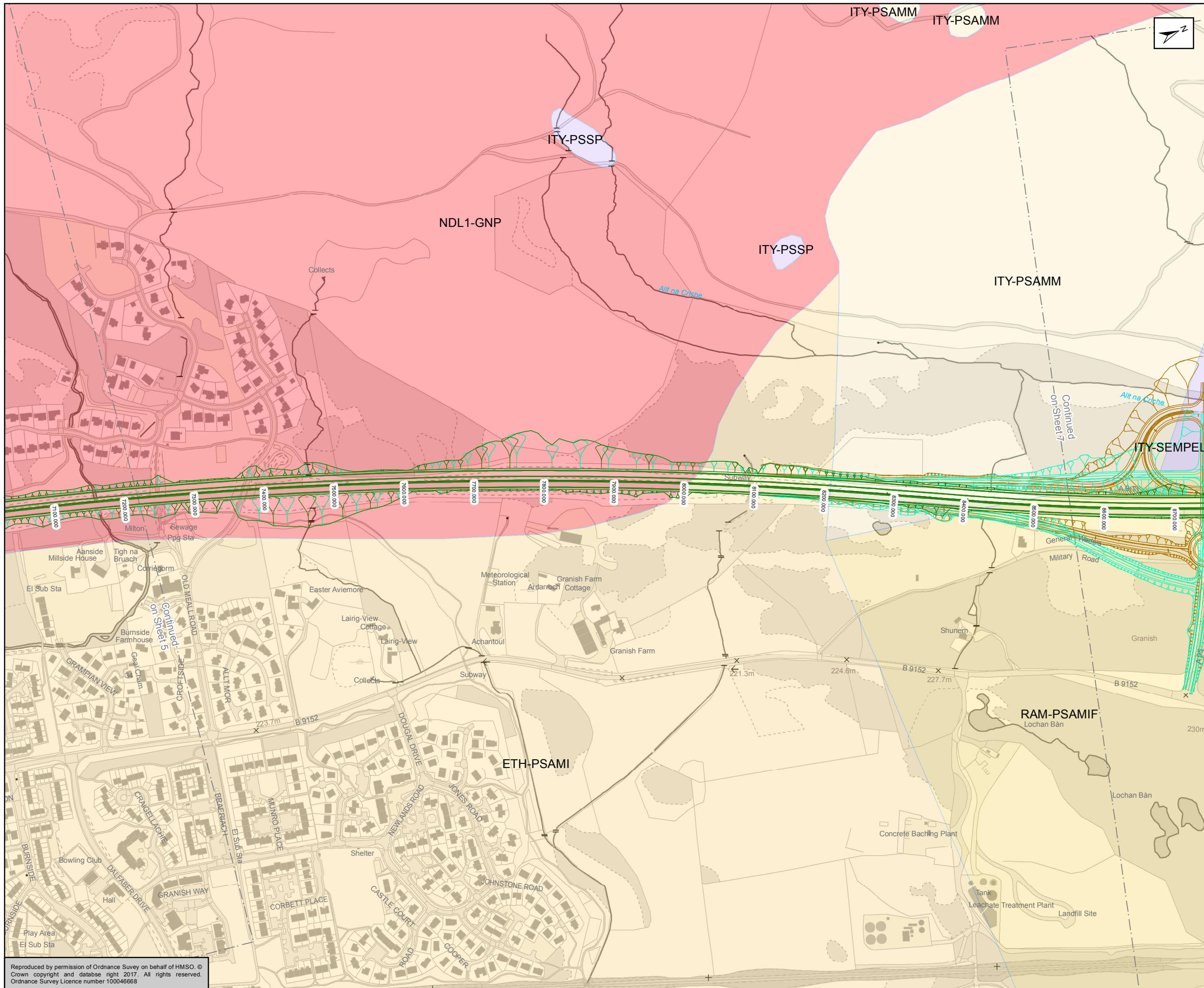
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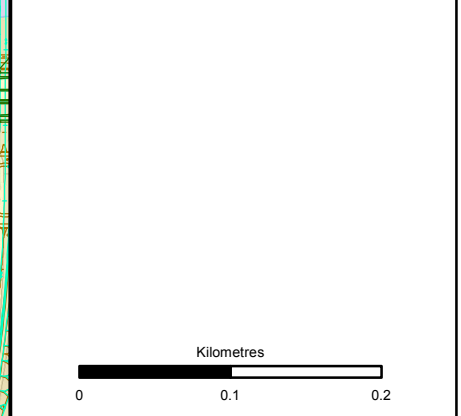
**Figure 5.27e
Mainline Alignment Option 2
Solid Geology
Sheet 5 of 17**

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- Mainline Option 2** (Combination of Northbound and Southbound Widening)
- Granish Junction Options (Northbound Widening)**
- C18 - Diamond
 - C21 - Half Dumbbell / Cloverleaf
- Bedrock Geology**
- NDL1-GNP: MONADHLIATH PLUTON, PHASE 1 - GRANITE, PORPHYRITIC
 - GRAM-PSAMIF: GRAMPIAN GROUP - PSAMMITE, MICACEOUS-FLAGGY
 - NETH-PSAMI: NETHYBRIDGE PSAMMITE FORMATION - PSAMMITE, MICACEOUS
 - PITY-PSAMM: PITYOULISH FORMATION - PSAMMITE
 - PITY-PSSP: PITYOULISH FORMATION - PSAMMITE AND SEMIPELITE
 - PITY-SEMPEL: PITYOULISH FORMATION - SEMIPELITE



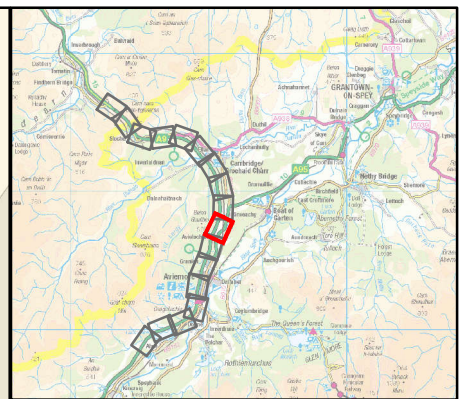
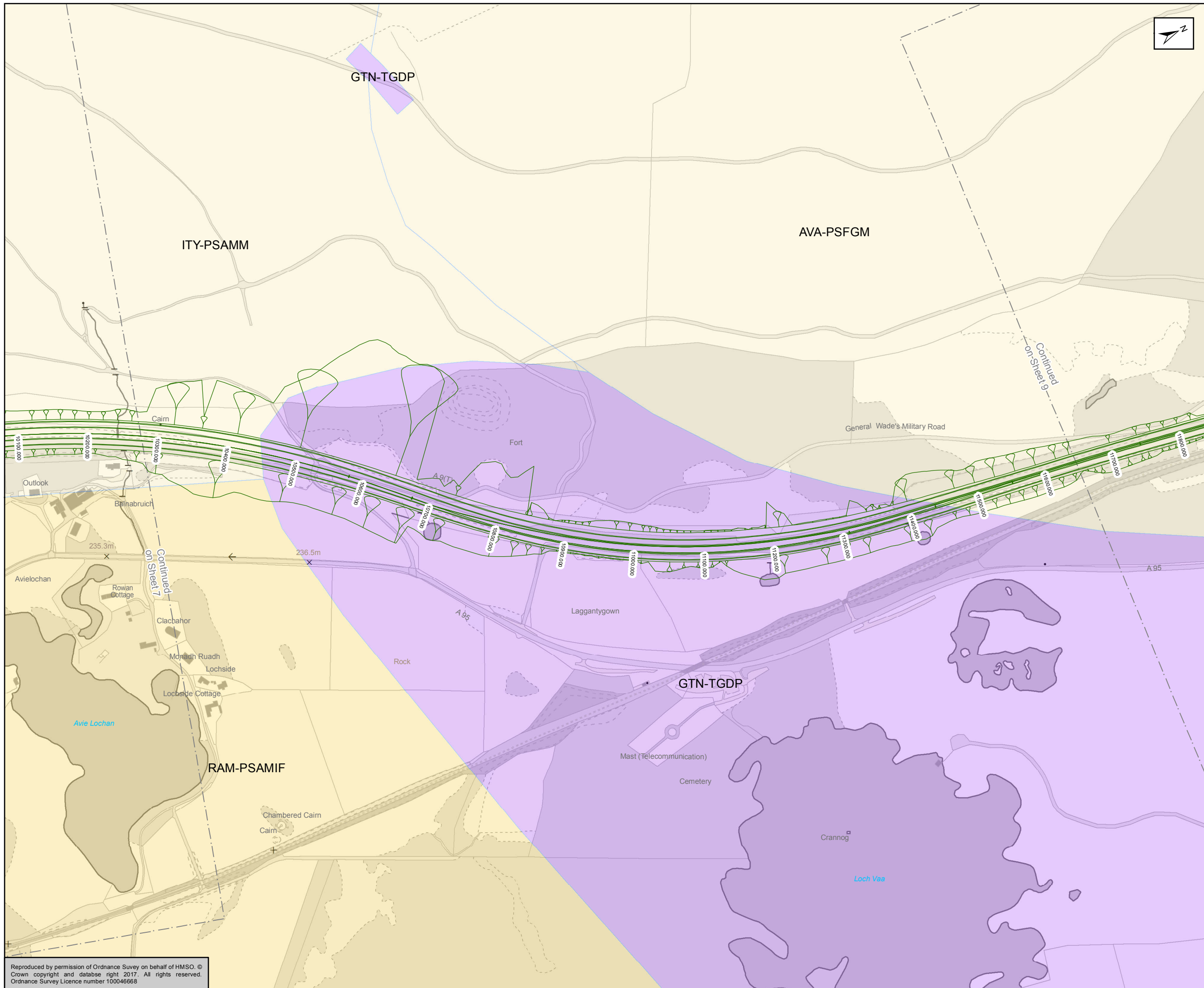
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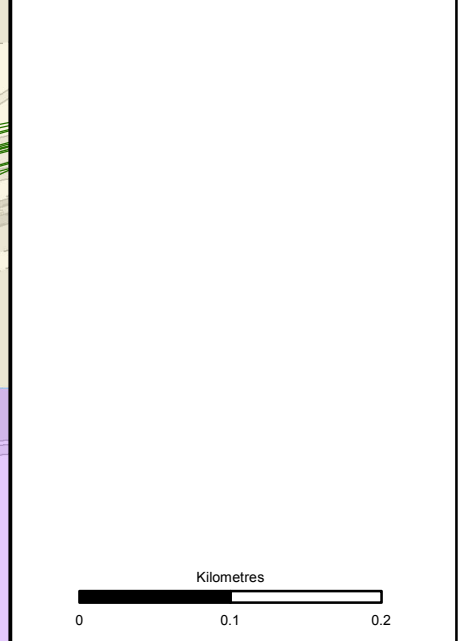
Figure 5.27f
Mainline Alignment Option 2
Solid Geology
Sheet 6 of 17

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**
- BGTN-TGDP** BOAT OF GARTEN PLUTON - PORPHYRIC TONALITE AND PORPHYRIC GRANODIORITE
 - DAVA-PSFGM** DAVA SUBGROUP - PSAMMITE, FELDSPATHIC-GNEISSO...
 - GRAM-PSAMIF** GRAMPIAN GROUP - PSAMMITE, MICACEOUS-FLAGGY
 - PITY-PSAMM** PITYOULISH FORMATION - PSAMMITE



Status: **FINAL** Sustainability: **B**

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

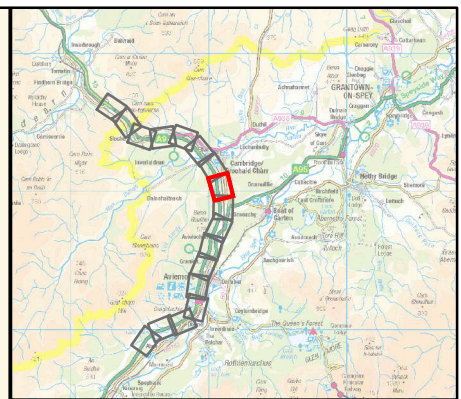
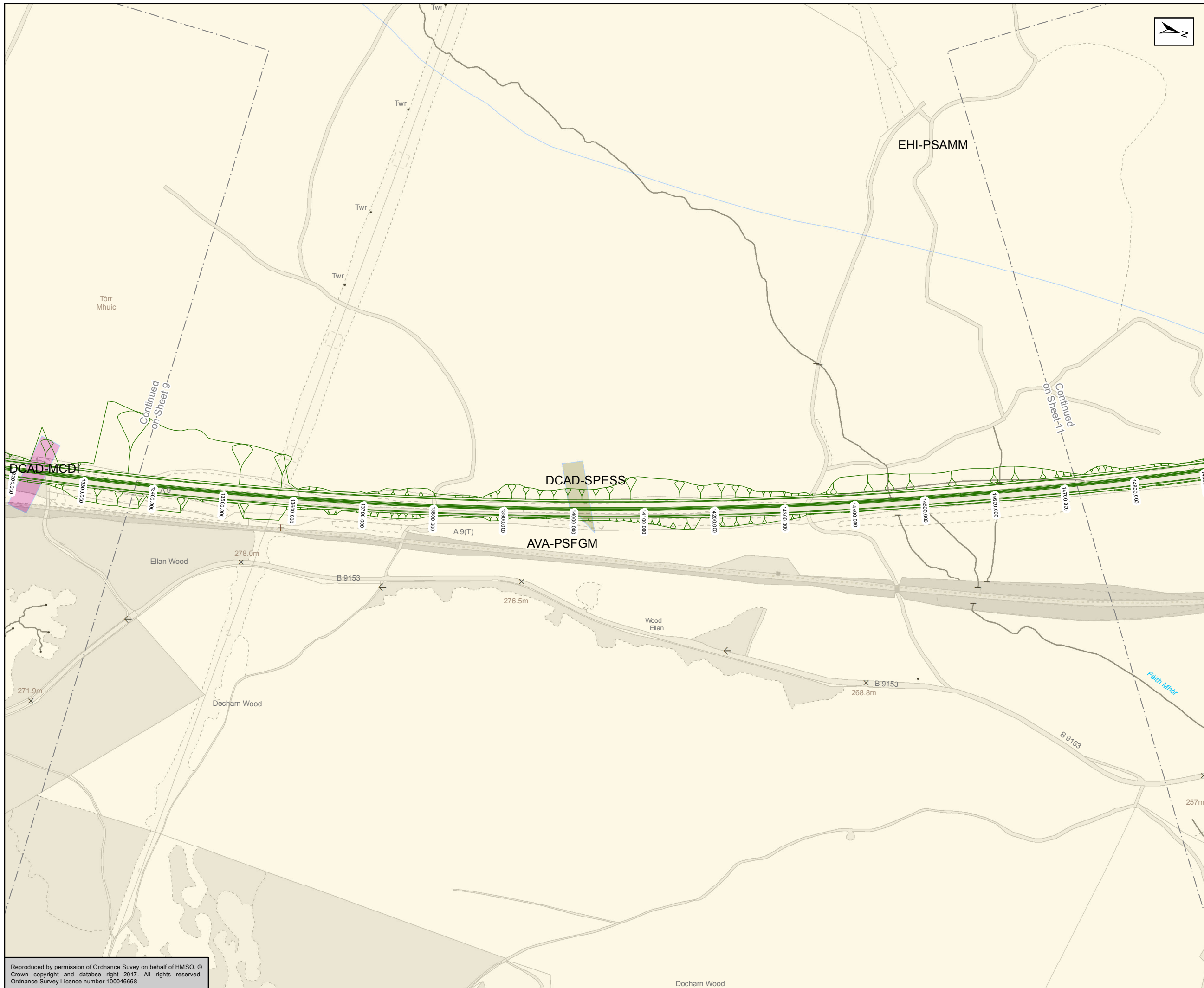


ATKINS mouchel

Figure 5.27h
Mainline Alignment Option 2
Solid Geology
Sheet 8 of 17

Scale: 1:5,000	Drawn: JD	Checked: KP	Approved: MD	Authorised: RG
Document Number: A9P11-AMJ-EGT-F_ZZZZZ_XZ-DR-GI-0026	Project Originator: Volume	Revision: P03		
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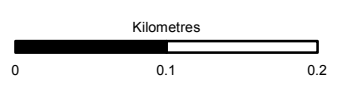
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Mainline Option 2 (Combination of Northbound and Southbound Widening)

Bedrock Geology

- DCAD-MCDI NORTH BRITAIN SILURO-DEVONIAN CALC-ALKALINE DYKE SUITE - MICRODIORITE
- DCAD-SPESS NORTH BRITAIN SILURO-DEVONIAN CALC-ALKALINE DYKE SUITE - SPESSARTITE
- CEHI-PSAMM CENTRAL HIGHLAND MIGMATITE COMPLEX - PSAMMITE
- DAVA-PSFGM DAVA SUBGROUP - PSAMMITE, FELDSPATHIC-GNEISSO...



Status	FINAL	Suitability	B
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Client: **TRANSPORT SCOTLAND**
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A9
DUALLING
 PERTH TO INVERNESS
 Dalraddy to Stochd

ATKINS mouchel

Figure 5.27j
 Mainline Alignment Option 2
 Solid Geology
 Sheet 10 of 17

Scale	1:5,000	Drawn	JD	Checked	KP	Approved	MD	Authorised	RG
Document Number	A9P11-AMJ-EGT-F_ZZZZZ_XX-DR-GI-0028							Revision	P03
Project	Originator	Volume							
Location	Type	Role	Number						

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