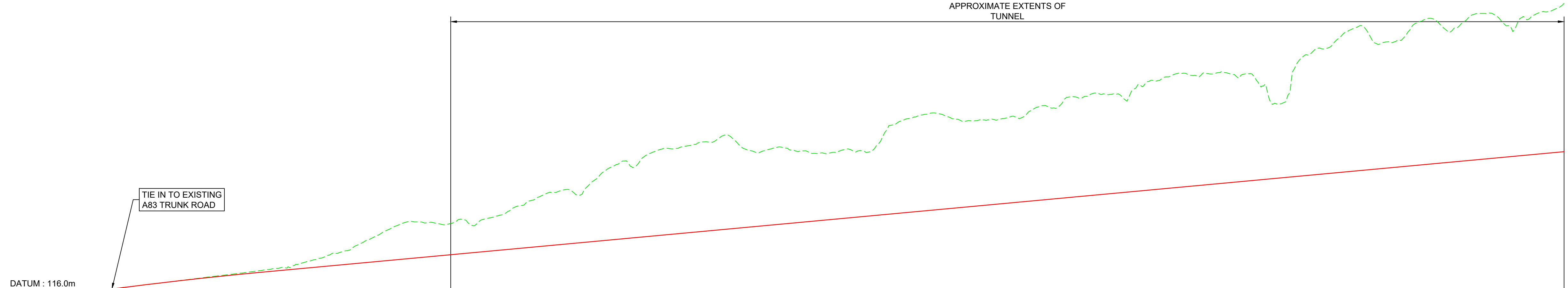
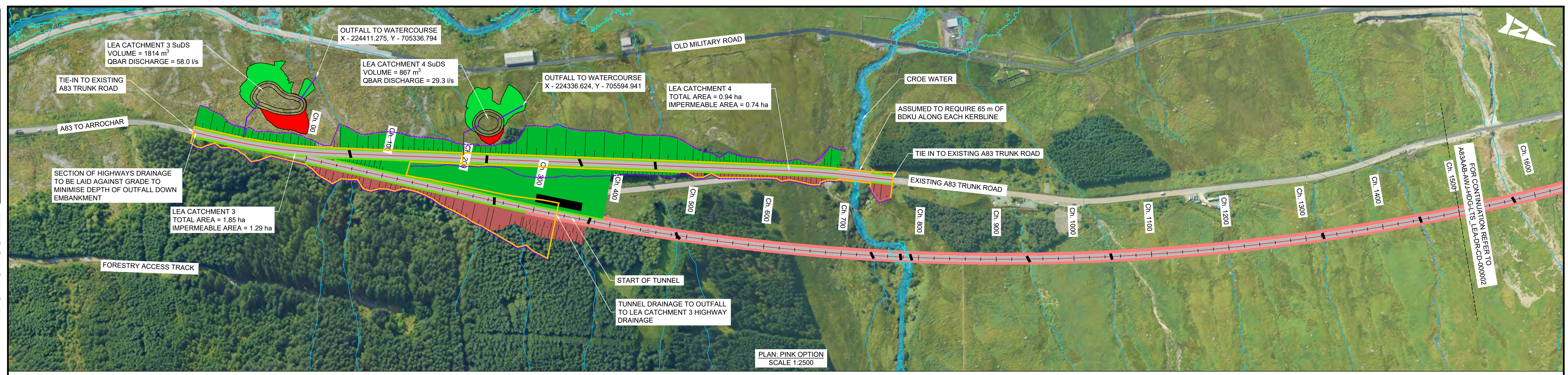


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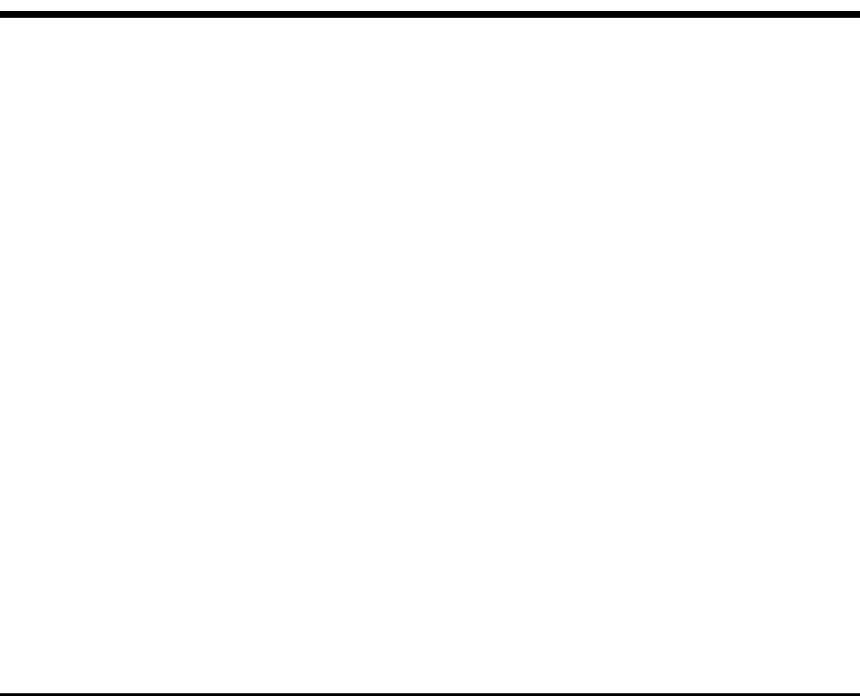
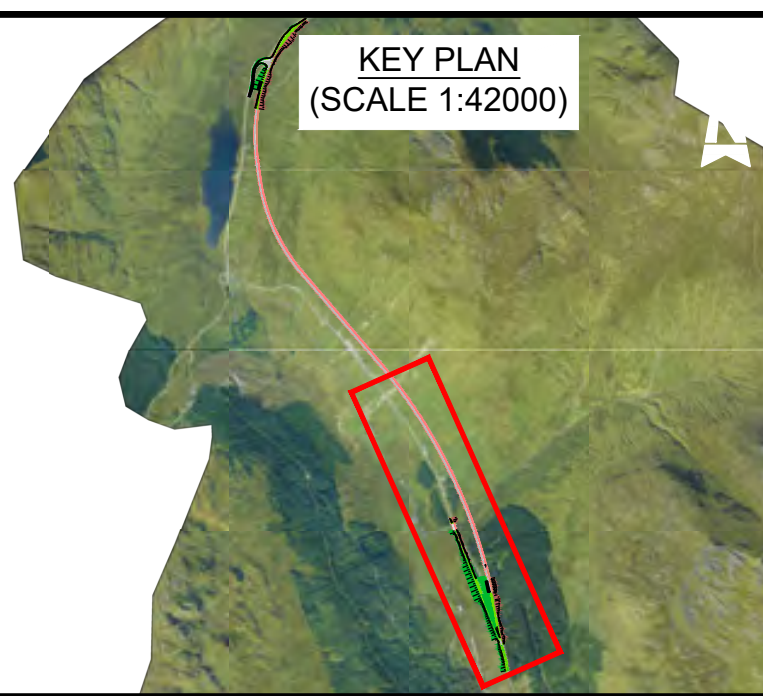
CHAINAGE	0.000	20.000	40.000	60.000	80.000	100.000	120.000	140.000	160.000	180.000	200.000	220.000	240.000	260.000	280.000	300.000	320.000	340.000	360.000	380.000	400.000	420.000	440.000	460.000	480.000	500.000	520.000	540.000	560.000	580.000	600.000	620.000	640.000	660.000	680.000	700.000	720.000	740.000	760.000	780.000	800.000	820.000	840.000	860.000	880.000	900.000	920.000	940.000	960.000	980.000	1000.000	1020.000	1040.000	1060.000	1080.000	1100.000	1120.000	1140.000	1160.000	1180.000	1200.000	1220.000	1240.000	1260.000	1280.000	1300.000	1320.000	1340.000	1360.000	1380.000	1400.000	1420.000	1440.000	1460.000	1480.000	1500.000
EXISTING LEVELS	128.584	129.599	130.548	131.528	132.517	133.535	134.484	135.468	136.583	137.219	138.711	141.932	144.186	147.972	152.019	155.675	156.190	155.310	157.421	156.695	158.954	162.817	166.430	168.654	167.464	173.878	179.712	178.888	185.250	186.458	188.146	189.170	191.114	186.357	186.032	185.060	184.552	186.397	184.961	193.997	200.701	200.208	197.742	198.401	198.977	199.371	204.218	204.616	207.337	209.137	209.031	212.995	214.583	217.492	216.658	217.635	216.895	216.082	205.020	218.559	228.394	229.085	235.704	232.620	230.734	235.218	240.363	234.950	240.057	242.407	237.295	243.033	246.272			
PROPOSED LEVELS	128.584	129.584	130.574	131.526	132.437	133.308	134.140	134.931	135.683	136.423	137.163	137.903	138.643	139.383	140.123	140.863	141.603	142.343	143.083	143.823	144.563	145.303	146.043	146.783	147.523	148.263	149.003	149.743	150.483	151.223	151.963	152.703	153.443	154.183	154.923	155.663	156.403	157.143	157.883	158.623	159.363	160.103	160.843	161.583	162.323	163.063	163.803	164.543	165.283	166.023	166.763	167.503	168.243	168.983	169.723	170.463	171.203	171.943	172.683	173.423	174.163	174.903	175.643	176.383	177.123	177.863	178.603	179.343	180.083	180.823	181.563	182.303	183.043	183.783	184.523	185.263
LEVEL DIFFERENCE	0.000	-0.015	0.026	-0.003	-0.080	-0.226	-0.344	-0.537	-0.909	-0.796	-2.548	-4.028	-5.543	-8.589	-11.896	-14.812	-14.587	-12.967	-14.337	-12.972	-14.391	-17.514	-20.387	-21.871	-19.941	-25.615	-30.709	-29.145	-34.767	-35.235	-36.183	-36.467	-37.670	-31.500	-31.433	-30.368	-28.657	-27.409	-28.514	-26.338	-34.634	-39.658	-38.624	-35.419	-35.338	-35.174	-34.828	-38.934	-38.593	-40.573	-41.634	-40.788	-44.012	-44.860	-47.029	-45.455	-45.691	-44.211	-42.559	-30.857	-43.655	-50.750	-52.702	-58.581	-54.757	-52.131	-55.675	-60.279	-54.127	-58.464	-60.103	-54.252	-56.589	-58.510	-61.209	
HORIZONTAL ALIGNMENT	D=267.06m										R=2880.00m L=1478.43m																																																																	
VERTICAL ALIGNMENT	G=5.00% L=25.49m K=100.0 L=130.18m										G=3.70% L=2961.91m																																																																	

NOTES:

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KEY - PLAN:

- CATCHMENT EXTENTS
- SuDS CUT EARTHWORKS
- SuDS FILL EARTHWORKS
- INDICATIVE CARRIER PIPE TO SuDS/OUTFALL
- PRE-EARTHWORKS DRAINAGE
- 200 YEAR+CC FLOOD PLAIN EXTENTS
- INDICATIVE WATERCOURSE/PED CROSSING
- WATERCOURSE



Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Stage 2 Issue	S4	P01	AK	GL	PG	IA	23/05/23

ATKINS **wsp**
Member of the SNC-Lavalin Group

TRANSPORT SCOTLAND
COMHDAIL ALBA

Project Stage / Design File: **DMRB Stage 2** State: **Preliminary**

Project Title: **A83 AAB**

Drawing Title: **PINK OPTION DRAINAGE PLAN AND PROFILE**

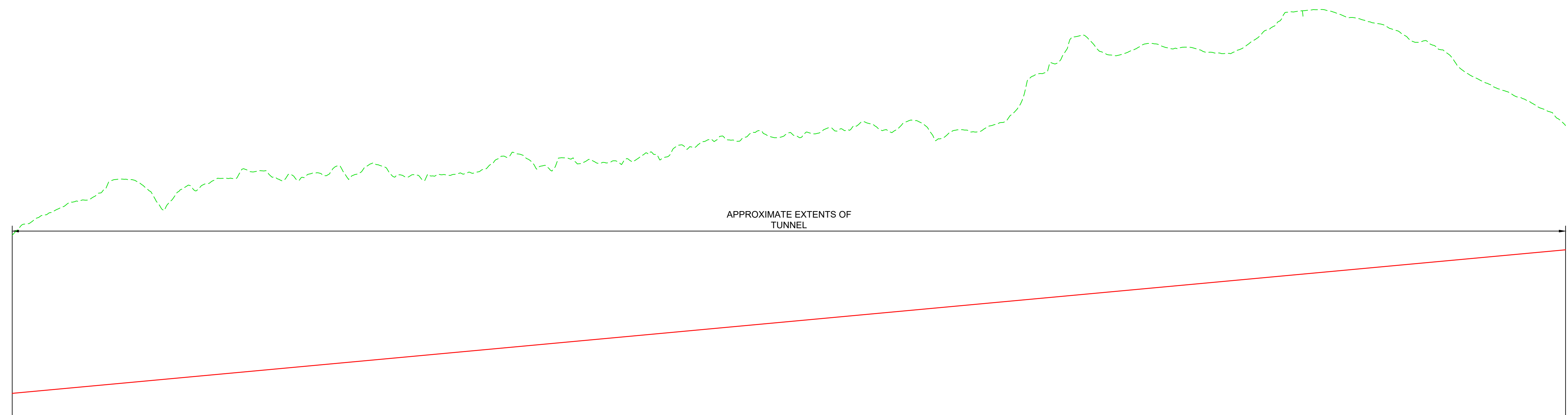
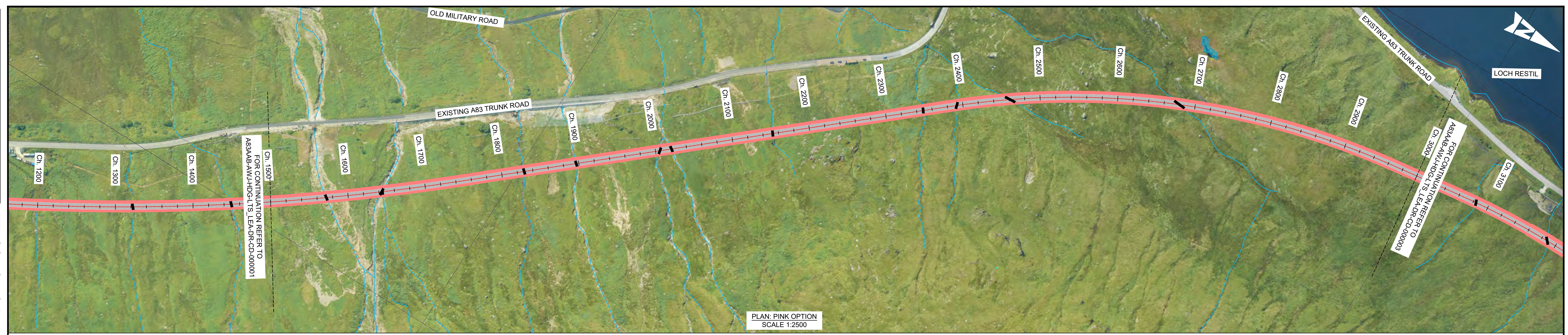
Drawing Number: **A83AAB - AWJ - HDG - LTS_LEA - DR-CD-000001**

Client: **TRANSPORT SCOTLAND**

Original Size: **A1** Scale: **AS SHOWN** Project Ref. No.: **5204594** Sheet: **1 of 3** Rev: **P01**

DO NOT SCALE

100
0 10
Millimetres



DATUM : 175.0m

CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS	LEVEL DIFFERENCE	HORIZONTAL ALIGNMENT	VERTICAL ALIGNMENT
1500.000	246.472	185.263	-61.209	R=2880.00m L=1478.43m	G=3.70% L=2961.91m
1520.000	251.980	186.003	-65.977		
1540.000	255.649	186.743	-68.906	D=622.61m	
1560.000	259.352	187.483	-71.868		
1580.000	261.505	188.223	-73.282	L=35.00m	
1600.000	267.946	188.963	-78.983		
1620.000	267.248	189.703	-77.545	R=1020.00m L=546.08m	
1640.000	259.068	190.443	-68.625		
1660.000	263.147	191.183	-71.963	L=35.00m	
1680.000	264.307	191.923	-72.384		
1700.000	266.370	192.663	-73.707		
1720.000	270.771	193.403	-77.367		
1740.000	271.330	194.143	-77.187		
1760.000	267.490	194.883	-72.607		
1780.000	268.796	195.623	-73.172		
1800.000	269.596	196.363	-73.233		
1820.000	270.775	197.103	-73.672		
1840.000	272.521	197.843	-74.678		
1860.000	272.688	198.583	-74.105		
1880.000	268.768	199.323	-68.445		
1900.000	268.998	200.063	-68.935		
1920.000	269.670	200.803	-68.867		
1940.000	270.629	201.543	-69.086		
1960.000	273.097	202.283	-70.814		
1980.000	276.824	203.023	-73.801		
2000.000	275.326	203.763	-71.563		
2020.000	271.474	204.503	-66.971		
2040.000	275.916	205.243	-70.673		
2060.000	275.357	205.983	-69.374		
2080.000	275.120	206.723	-68.397		
2100.000	274.959	207.463	-67.496		
2120.000	277.627	208.203	-69.424		
2140.000	280.367	208.943	-71.424		
2160.000	280.546	209.683	-70.863		
2180.000	283.162	210.423	-72.738		
2200.000	282.722	211.163	-71.568		
2220.000	286.756	211.903	-74.852		
2240.000	284.179	212.643	-71.536		
2260.000	284.162	213.383	-70.779		
2280.000	286.060	214.123	-71.936		
2300.000	287.559	214.863	-72.696		
2320.000	290.187	215.603	-74.584		
2340.000	288.860	216.343	-70.516		
2360.000	289.613	217.083	-72.530		
2380.000	289.292	217.823	-71.469		
2400.000	284.276	218.563	-65.713		
2420.000	287.036	219.303	-67.733		
2440.000	287.829	220.043	-67.786		
2460.000	290.612	220.783	-69.829		
2480.000	305.733	221.523	-84.210		
2500.000	310.192	222.263	-87.929		
2520.000	320.355	223.003	-97.352		
2540.000	321.919	223.743	-98.176		
2560.000	316.078	224.483	-91.594		
2580.000	317.680	225.223	-92.457		
2600.000	320.541	225.963	-94.577		
2620.000	318.439	226.703	-91.736		
2640.000	316.847	227.443	-91.404		
2660.000	316.956	228.183	-88.775		
2680.000	317.225	228.923	-88.301		
2700.000	322.006	229.663	-92.342		
2720.000	327.733	230.403	-97.330		
2740.000	332.910	231.143	-101.767		
2760.000	333.571	231.883	-101.687		
2780.000	332.059	232.623	-99.436		
2800.000	330.123	233.363	-96.760		
2820.000	328.129	234.103	-94.025		
2840.000	324.876	234.843	-89.033		
2860.000	321.101	235.583	-85.518		
2880.000	318.092	236.323	-81.769		
2900.000	310.312	237.063	-73.248		
2920.000	305.656	237.803	-68.033		
2940.000	302.343	238.543	-63.800		
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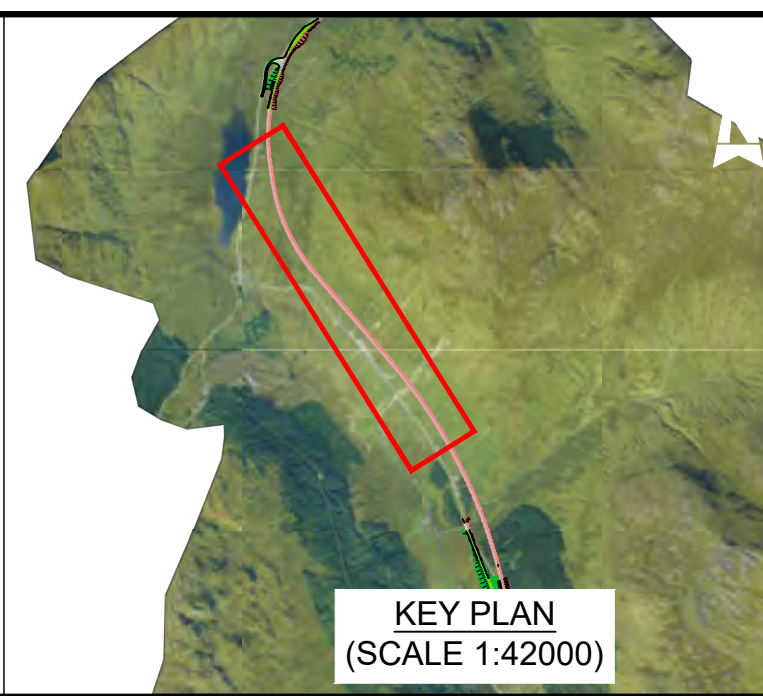
PROFILE: PINK OPTION
SCALE: H 1:2500, V 1:1000

NOTES:

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- PRE-EARTHWORKS DRAINAGE
- 200 YEAR+CC FLOOD PLAIN EXTENTS
- INDICATIVE WATERCOURSE/PED CROSSING
- WATERCOURSE



Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Stage 2 Issue	S4	P01	AK	GL	PG	IA	23/05/23

Status		Drawing Suitability	
S4	FOR STAGE APPROVAL		

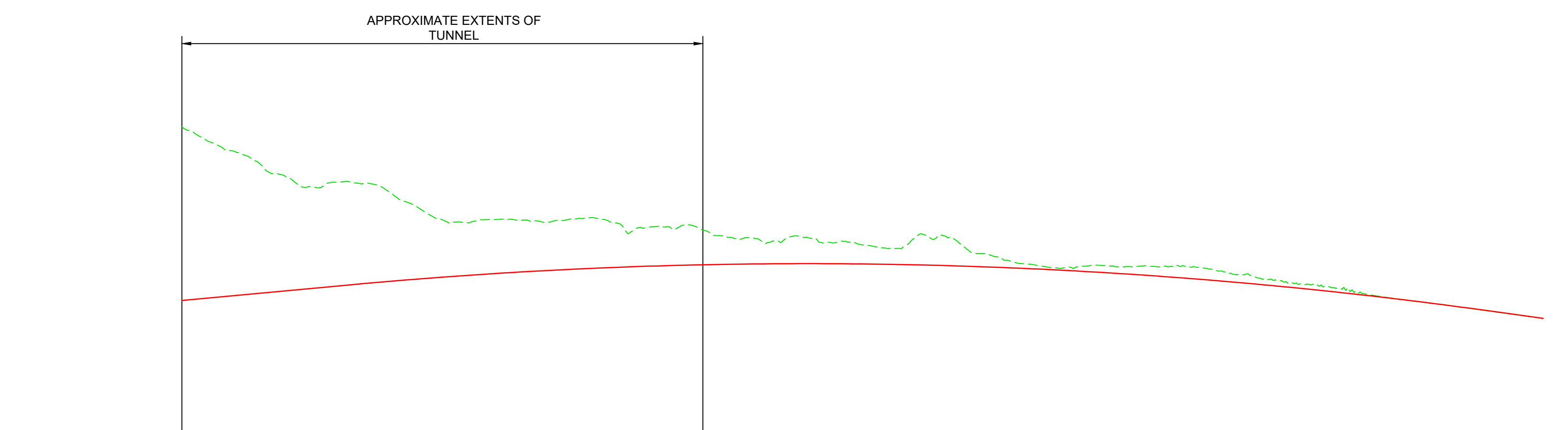
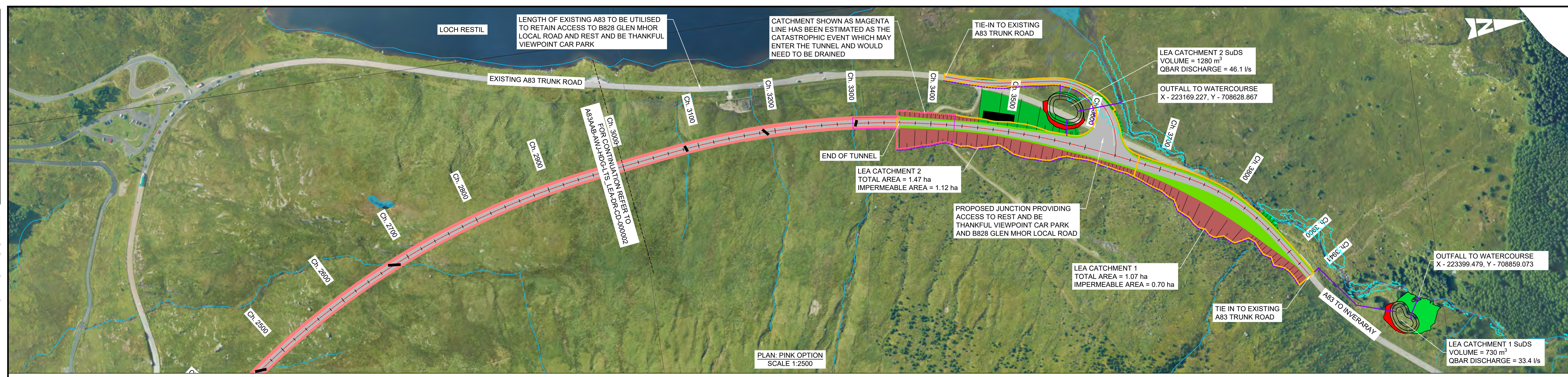
ATKINS *wsp*

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TRANSPORT SCOTLAND
COMHDAIL ALBA

Project Stage / Design Fix	DMRB Stage 2	State	Preliminary
Project Title	A83 AAB		
Drawing Title	PINK OPTION DRAINAGE PLAN AND PROFILE		
Drawing Number	Project	Originator	Volume
A83AAB - AWJ - HDG - LTS_LEA - DR-CD-000002			
Location	Type	Role	Number
A1	AS SHOWN		
Original Size	Scale	Project Ref. No.	Sheet / Rev
A1	AS SHOWN	6204594	2 of 3 / P01

DO NOT SCALE



CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS	LEVEL DIFFERENCE	HORIZONTAL ALIGNMENT	VERTICAL ALIGNMENT
3000.000	288.802	240.763	-48.039	D=58.23m L=35.00m	G=3.70% L=2961.91m
3020.000	284.503	241.503	-42.999		
3040.000	281.451	242.243	-39.208	R=1020.00m L=549.05m	K=85.0 L=790.61m
3060.000	276.234	242.983	-33.251		
3080.000	272.880	243.723	-29.157	D=29.61m L=35.00m	K=85.0 L=790.61m
3100.000	273.089	244.463	-28.626		
3120.000	273.233	245.203	-28.030	L=78.00m	G=-5.60% L=32.54m
3140.000	271.639	245.914	-25.726		
3160.000	267.156	246.577	-20.579	D=28.31m	G=-5.60% L=32.54m
3180.000	263.077	247.194	-15.883		
3200.000	262.465	247.764	-14.701		
3220.000	263.208	248.286	-14.922		
3240.000	262.779	248.762	-14.017		
3260.000	262.843	249.190	-13.653		
3280.000	263.552	249.572	-13.980		
3300.000	262.219	249.906	-12.313		
3320.000	260.833	250.193	-10.640		
3340.000	260.429	250.433	-9.996		
3360.000	260.231	250.626	-9.605		
3380.000	258.129	250.773	-7.357		
3400.000	257.301	250.872	-6.430		
3420.000	258.287	250.924	-7.363		
3440.000	256.915	250.928	-5.986		
3460.000	256.835	250.886	-5.949		
3480.000	255.549	250.797	-4.752		
3500.000	255.826	250.661	-5.165		
3520.000	257.731	250.477	-7.254		
3540.000	255.654	250.247	-5.407		
3560.000	253.100	249.970	-3.131		
3580.000	250.934	249.645	-1.289		
3600.000	249.870	249.274	-0.596		
3620.000	250.140	248.855	-1.285		
3640.000	250.348	248.389	-1.959		
3660.000	250.144	247.876	-2.267		
3680.000	250.197	247.317	-2.880		
3700.000	250.035	246.710	-3.325		
3720.000	248.660	246.056	-2.604		
3740.000	247.536	245.355	-2.181		
3760.000	246.226	244.607	-1.620		
3780.000	245.053	243.812	-1.242		
3800.000	244.107	242.970	-1.137		
3820.000	242.374	242.080	-0.294		
3840.000	241.173	241.144	-0.029		
3860.000	240.121	240.161	0.040		
3880.000	239.105	239.130	0.025		
3900.000	238.013	238.053	0.040		
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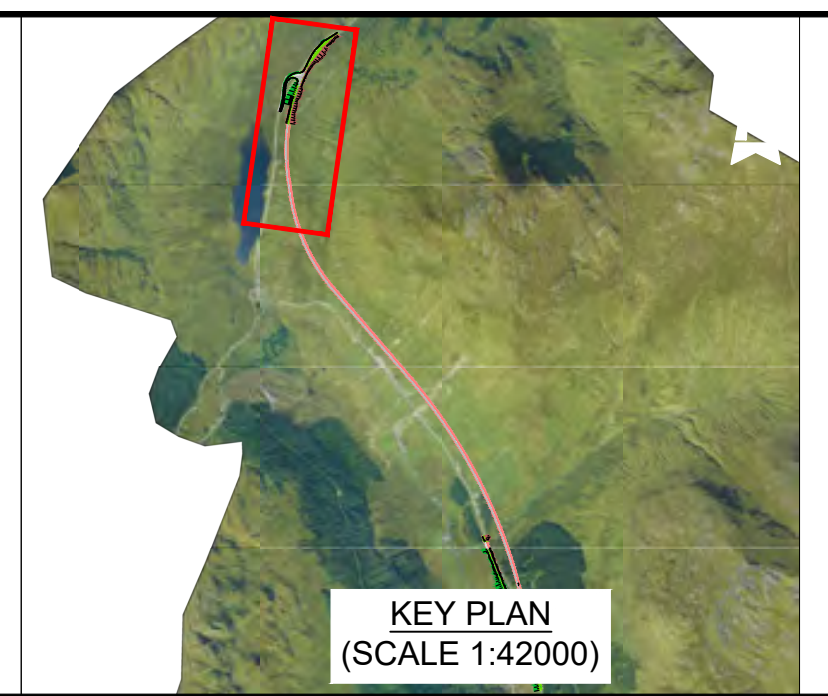
PROFILE: PINK OPTION
SCALE: H 1:2500, V 1:1000

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Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Stage 2 Issue	S4	P01	AK	GL	PG	IA	23/05/23

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TRANSPORT SCOTLAND
COMHDAIL ALBA

Status	S4	Drawing Suitability	FOR STAGE APPROVAL
Project Title	A83 AAB		
Drawing Title	PINK OPTION DRAINAGE PLAN AND PROFILE		
Drawing Number	A83AAB - AWJ - HDG - LTS_LEA - DR-CD-000003	Originator	Volume
Location		Type	Number
Original Size	A1	Scale	AS SHOWN
Project Ref. No.	6204594	Sheet	3 of 3
Rev.	P01		

Project Stage / Design File: **DMRB Stage 2** State: **Preliminary**

Project Title: **A83 AAB**

Drawing Title: **PINK OPTION DRAINAGE PLAN AND PROFILE**

Drawing Number: **A83AAB - AWJ - HDG - LTS_LEA - DR-CD-000003**

Original Size: **A1** Scale: **AS SHOWN** Project Ref. No.: **6204594** Sheet: **3 of 3** Rev: **P01**

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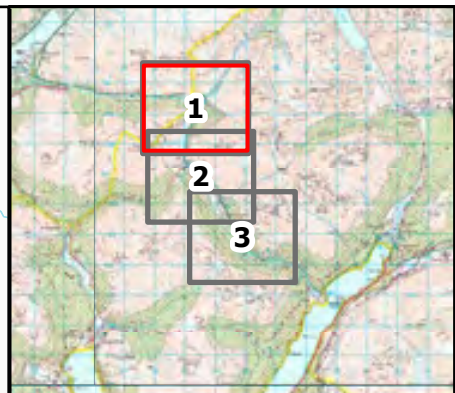
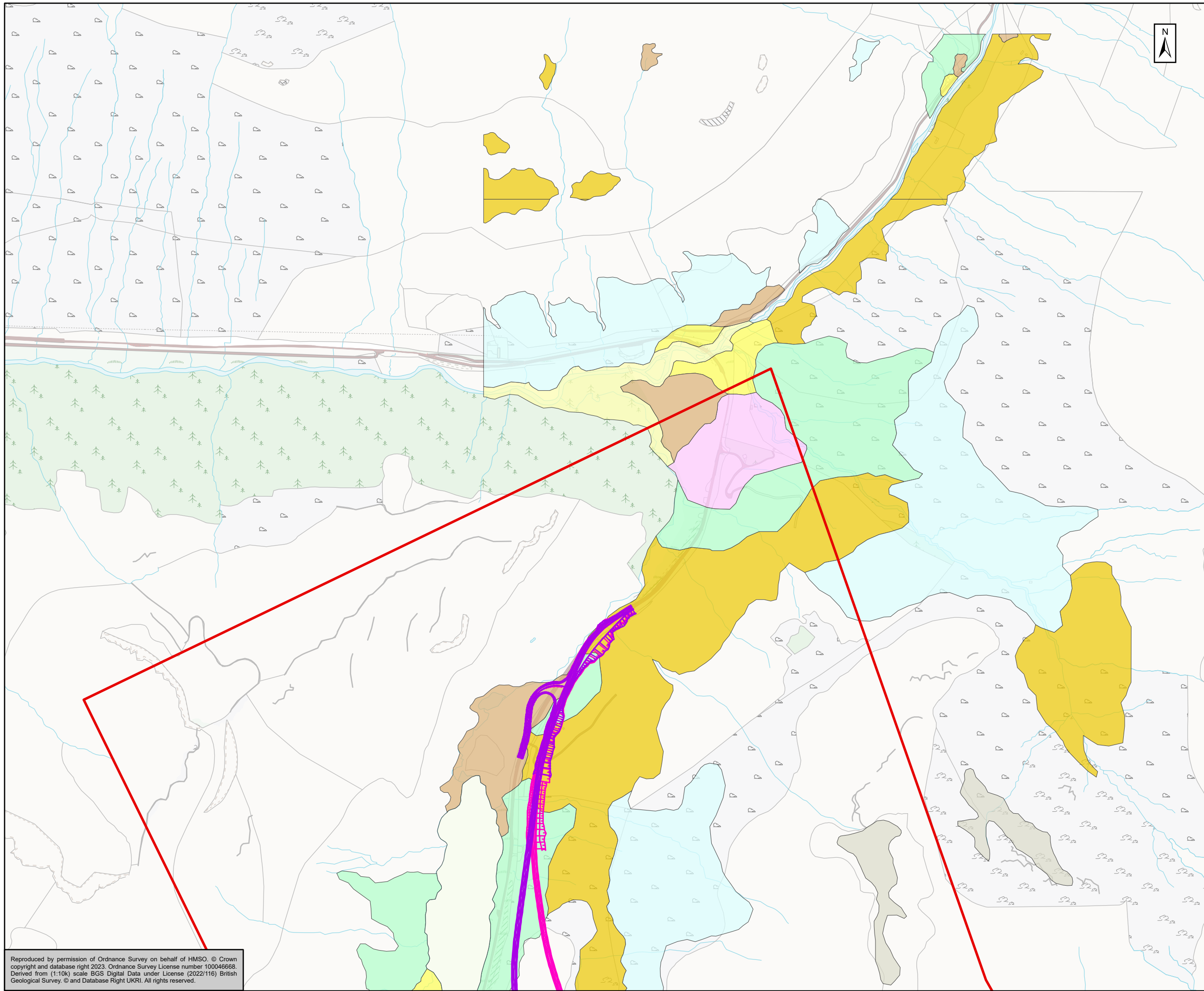
6. Geology and Geotechnical Plans

Geology

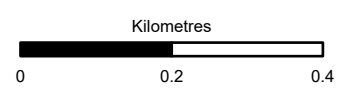
[A83AAB-AWJ-EGT-LTS_GEN-DR-VT-000125](#) – Superficial Geology

[A83AAB-AWJ-EGT-LTS_GEN-DR-VT-000124](#) – Solid Geology

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- Preferred Corridor
 - Pink Option
 - Green Option
 - Brown Option
 - Yellow Option
 - Purple Option
- Superficial Geology**
- Alluvial fan deposits-Sand, gravel and boulders
 - Alluvium-Clay, silt, sand and gravel
 - Colluvium-Gravel, sand and silt
 - Debris flow deposits-Sand, gravel and boulders
 - Glaciofluvial ice contact deposits-Gravel, sand and silt
 - Hummocky (Moundy) Glacial Deposits-Diamicton, sand and gravel
 - Peat-Peat
 - River Terrace Deposits (Undifferentiated)-Sand and gravel
 - Superficial deposits-Unknown/unclassified entry
 - Talus-Rock fragments, angular, undifferentiated source rock
 - Till-Diamicton



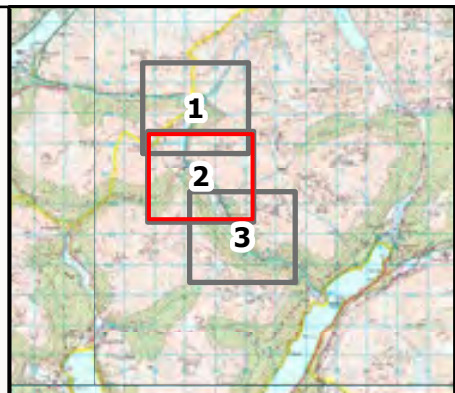
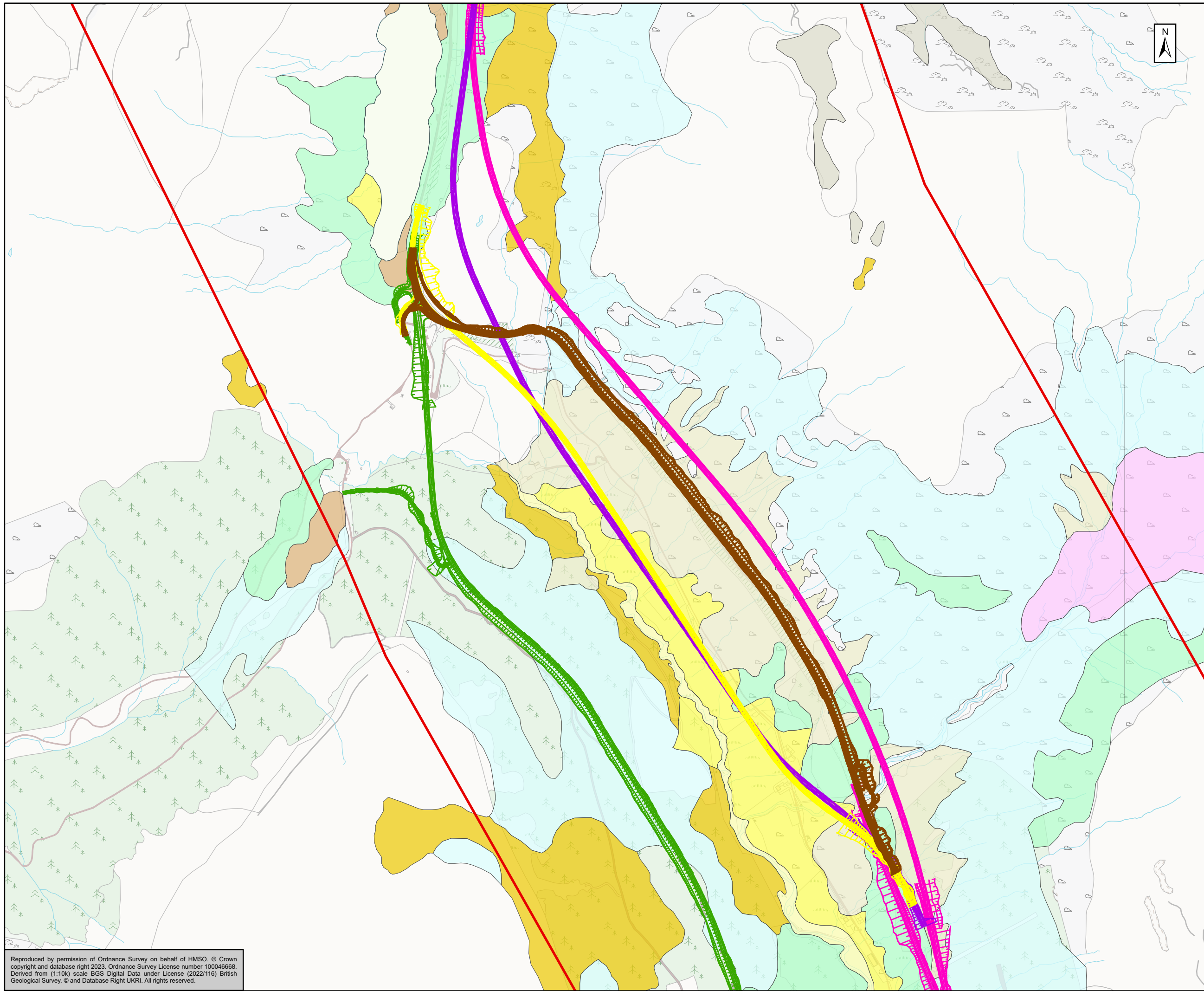
For Stage Approval S4



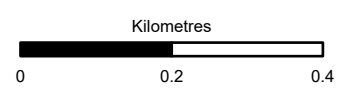
Superficial Geology (BGS 1:10k)
Sheet 1 of 3

Scale 1:10,000	Drawn HM	Checked MA	Approved CP	Authorised HR
Document Number A83AAB-AWJ-EGT-LTS_GEN-DR-VT-000125				Revision P01
Location	Type	Role	Number	

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- Superficial Geology**
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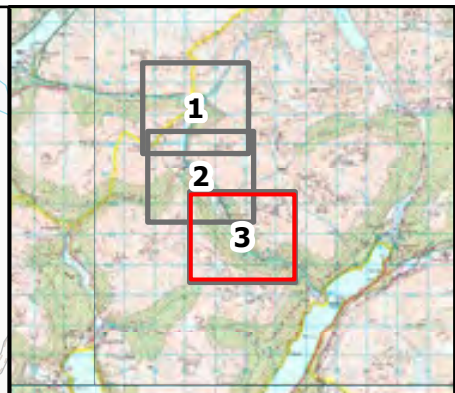
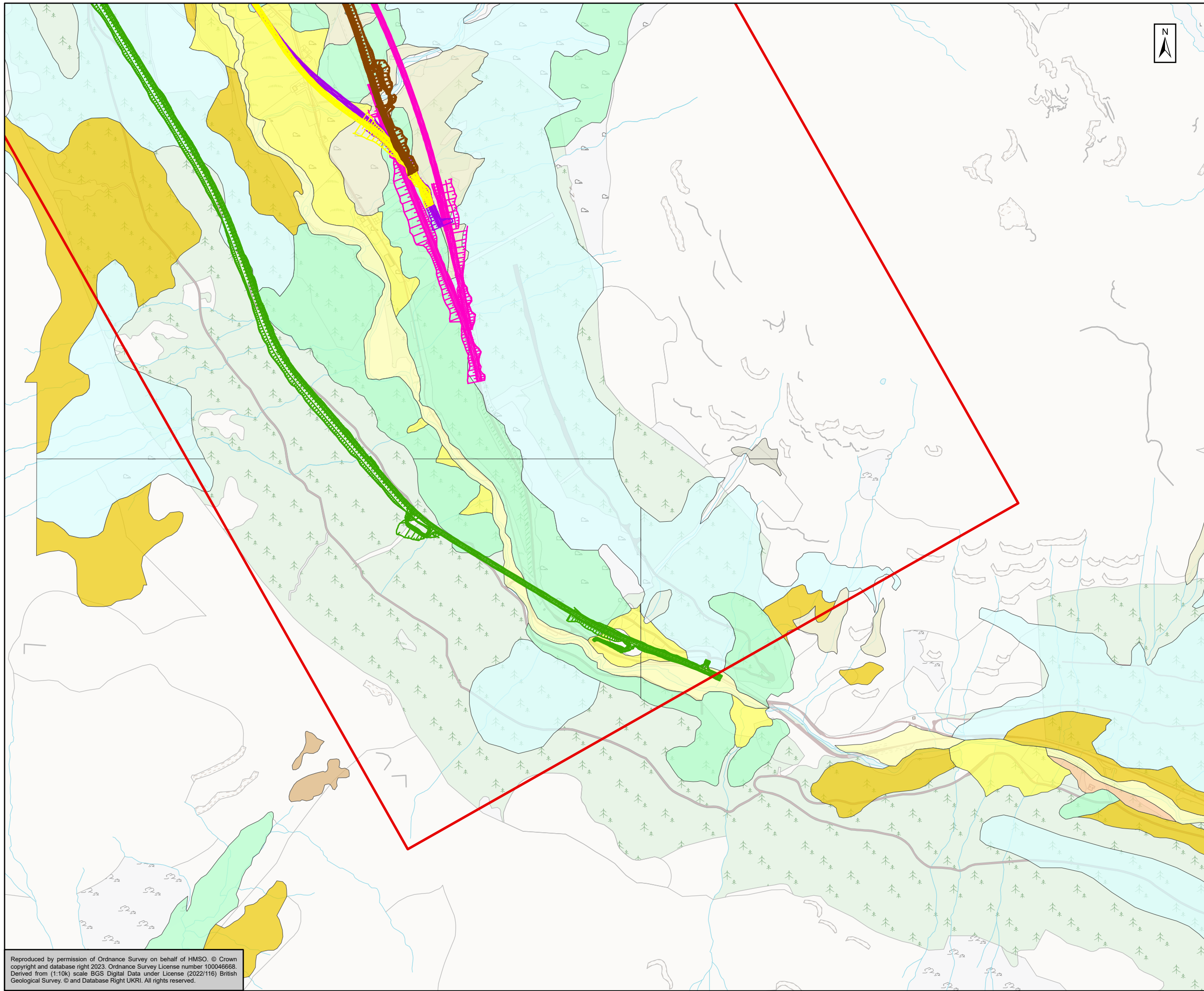
Subsidiary For Stage Approval Status S4



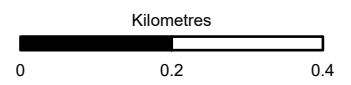
Superficial Geology (BGS 1:10k)
Sheet 2 of 3

Scale 1:10,000	Drawn HM	Checked MA	Approved CP	Authorised HR
Document Number A83AAB-AWJ-EGT-LTS_GEN-DR-VT-000125	Project A83AAB-AWJ-EGT-LTS_GEN-DR-VT-000125	Originator A83AAB-AWJ-EGT-LTS_GEN-DR-VT-000125	Volume A83AAB-AWJ-EGT-LTS_GEN-DR-VT-000125	Revision P01
Location	Type	Role	Number	

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- Preferred Corridor
 - Pink Option
 - Green Option
 - Brown Option
 - Yellow Option
 - Purple Option
- Superficial Geology**
- Alluvial fan deposits-Sand, gravel and boulders
 - Alluvium-Clay, silt, sand and gravel
 - Colluvium-Gravel, sand and silt
 - Debris flow deposits-Sand, gravel and boulders
 - Glaciofluvial ice contact deposits-Gravel, sand and silt
 - Hummocky (Moundy) Glacial Deposits-Diamicton, sand and gravel
 - Peat-Peat
 - River Terrace Deposits (Undifferentiated)-Sand and gravel
 - Superficial deposits-Unknown/unclassified entry
 - Talus-Rock fragments, angular, undifferentiated source rock
 - Till-Diamicton



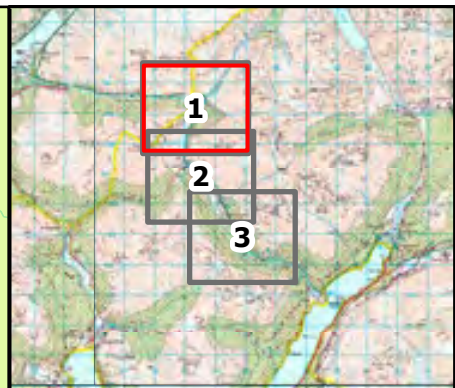
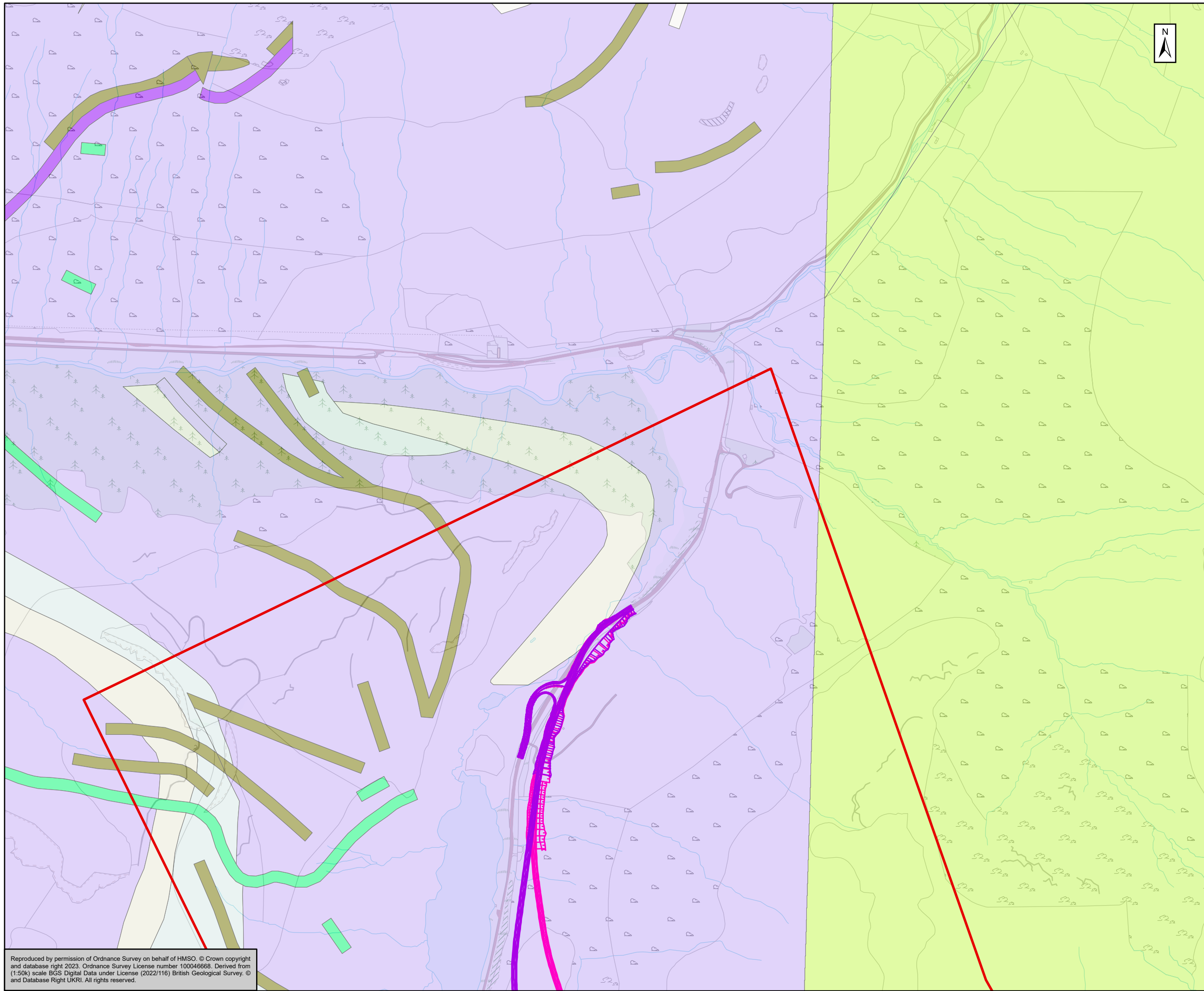
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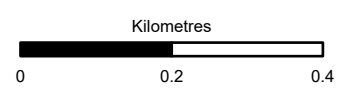
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Superficial Geology (BGS 1:10k)
 Sheet 3 of 3

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Location	Type	Role	Number	

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- Preferred Corridor
 - Pink Option
 - Green Option
 - Brown Option
 - Yellow Option
 - Purple Option
- Soild Geology**
- CSTD-MCQGB
Central Scotland Late Carboniferous Tholeiitic Dyke Swarm - Quartz-microgabbro
 - SDCAD-LMPY
North Britain Siluro-Devonian Calc-Alkaline Dyke Suite - Lamprophyre
 - SDCAD-MDAN
North Britain Siluro-Devonian Calc-Alkaline Dyke Suite - Microdiorite and andesite
 - DCBB-MWACKE
Beinn Bheula Schist Formation - Metawacke
 - DCBB-PSPE
Beinn Bheula Schist Formation - Psammite and pelite
 - DCBB-PSPP
Beinn Bheula Schist Formation - Pelite, semipelite and psammite
 - DCBB-SCH
Beinn Bheula Schist Formation - Schist



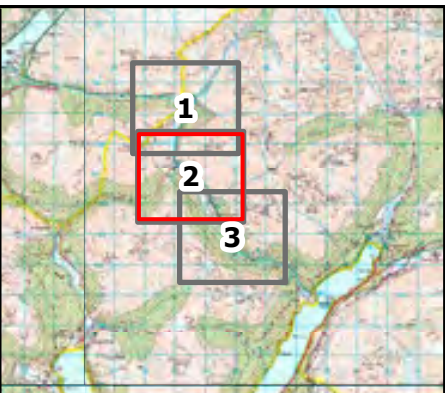
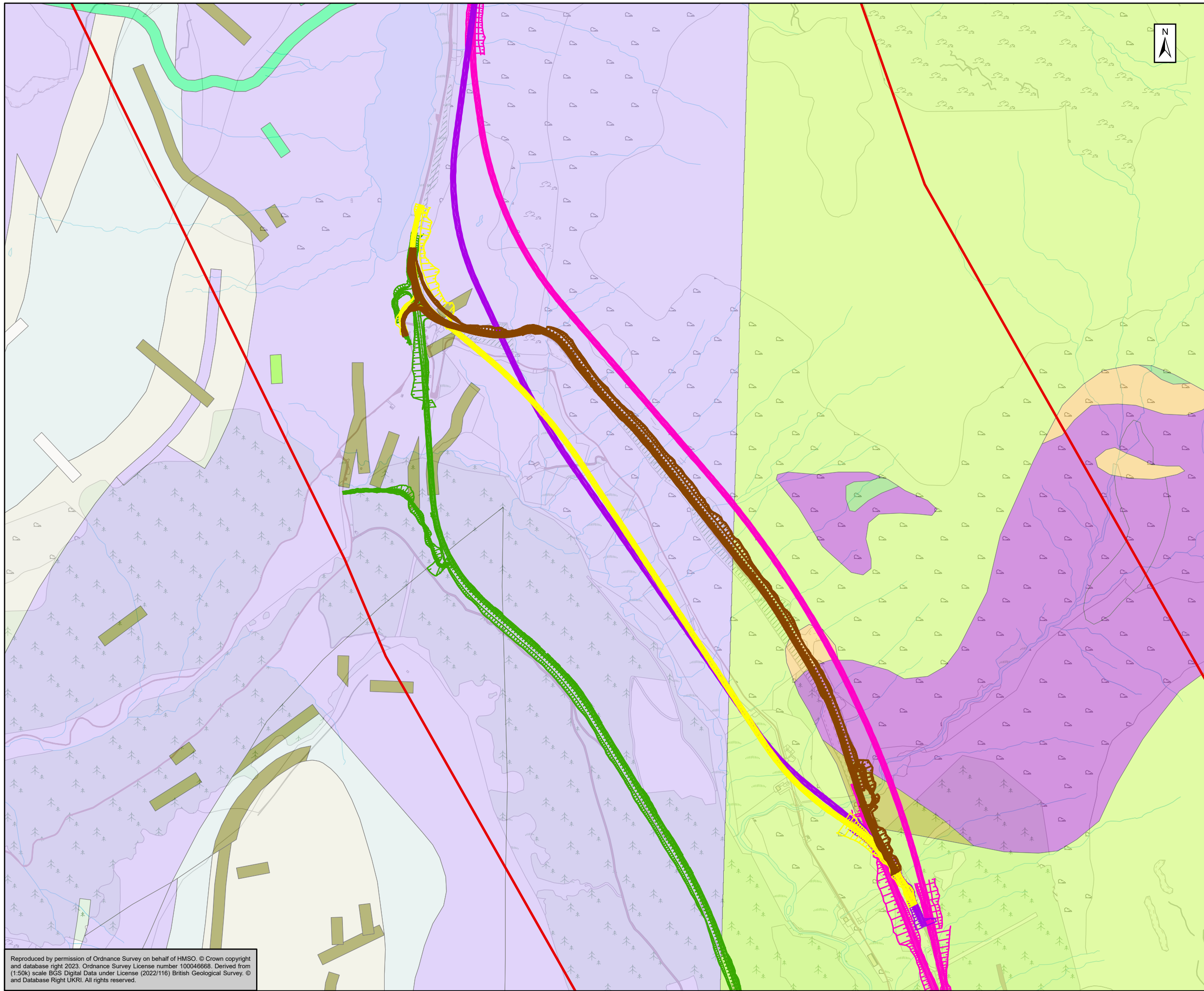
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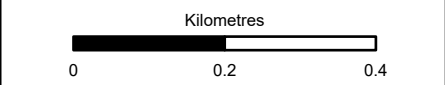
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Sheet 1 of 3

Scale: 1:10,000	Drawn: HM	Checked: MA	Approved: CP	Authorised: HR
Document Number: A83AAB-AWJ-EGT-LTS_GEN-DR-VT-000124	Project: A83AAB-AWJ-EGT-LTS	Originator: GEN-DR	Volume: VT	Revision: P01
Location:	Type:	Role:	Number:	

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- Preferred Corridor
 - Pink Option
 - Green Option
 - Brown Option
 - Yellow Option
 - Purple Option
- Soild Geology**
- MULD-BAMG Mull Dyke-Swarm - Basalt and microgabbro
 - CSTD-MCQGB Central Scotland Late Carboniferous Tholeiitic Dyke Swarm - Quartz-microgabbro
 - SSCGR-IBTFST South Of Scotland Granitic Suite - Intrusion-breccia and tuffsite
 - SSCGR-MLDI South Of Scotland Granitic Suite - Meladiorite
 - SSCGR-PXMDI South Of Scotland Granitic Suite - Pyroxene-mica diorite
 - SSCGR-TO South Of Scotland Granitic Suite - Tonalite
 - SDCAD-LMPY North Britain Siluro-Devonian Calc-Alkaline Dyke Suite - Lamprophyre
 - DCBB-MWACKE Beinn Bheula Schist Formation - Metawacke
 - DCBB-PSPE Beinn Bheula Schist Formation - Psammite and pelite
 - DCBB-PSPP Beinn Bheula Schist Formation - Pelite, semipelite and psammite
 - DCBB-SCH Beinn Bheula Schist Formation - Schist



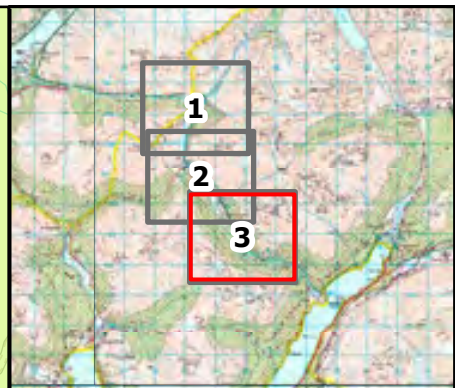
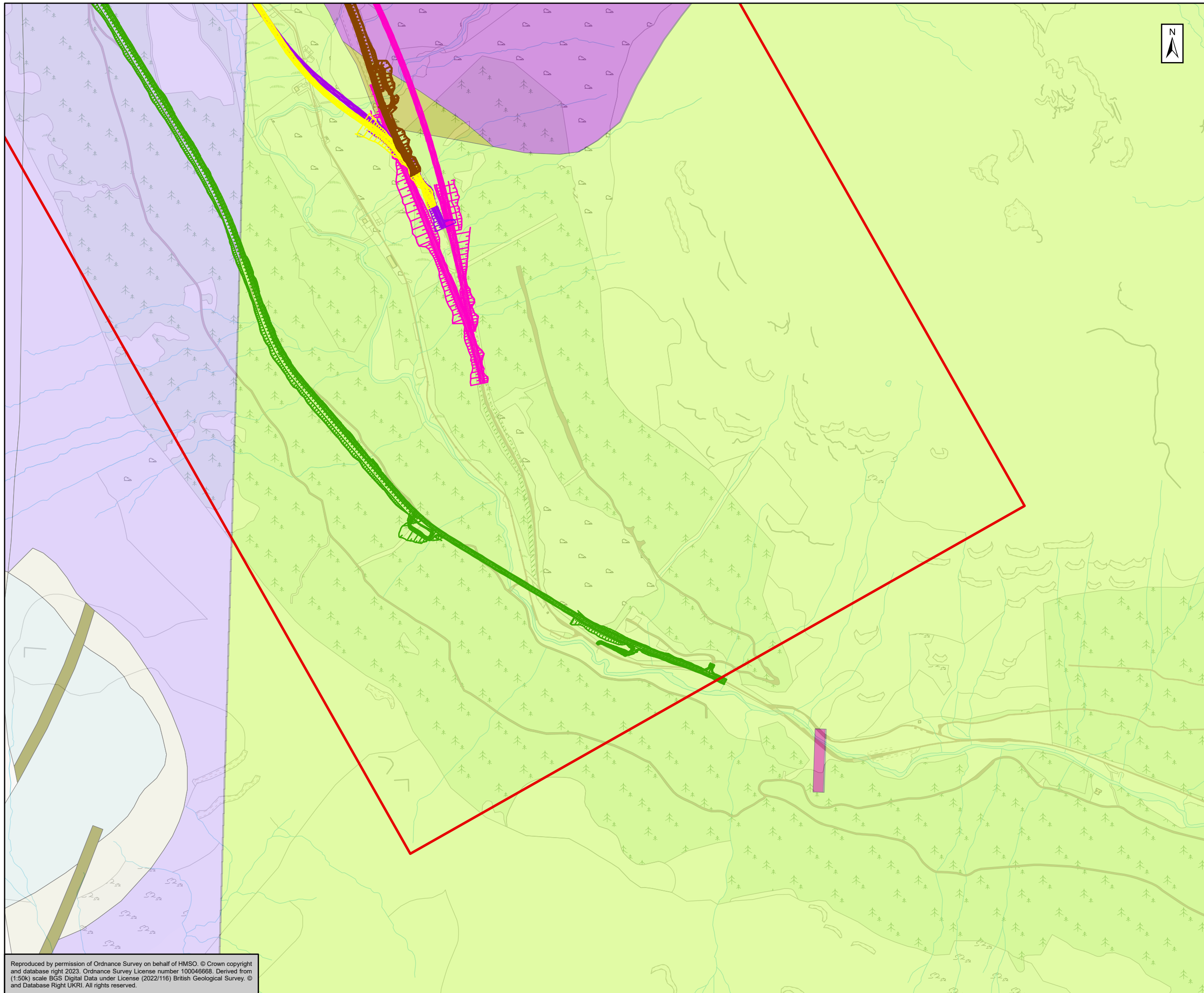
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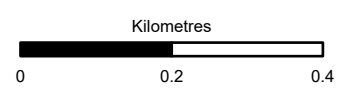
Solid Geology (BGS 1:50k)
Sheet 2 of 3

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Document Number	Project		Originator		Volume		Revision		
	A83AAB-AWJ-EGT-LTS_GEN-DR-VT-000124						P01		
Location	Type	Role	Number						

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	Preferred Corridor	
	Pink Option	
	Green Option	
	Brown Option	
	Yellow Option	
	Purple Option	
Solid Geology		
	SSCGR-IBTFS	South of Scotland Granitic Suite - Intrusion-breccia and tuffsite
	SSCGR-PXMDI	South of Scotland Granitic Suite - Pyroxene-mica diorite
	SDCAD-LMPY	North Britain Siluro-Devonian Calc-Alkaline Dyke Suite - Lamprophyre
	SDCAD-MCDI	North Britain Siluro-Devonian Calc-Alkaline Dyke Suite - Microdiorite
	DCBB-MWACKE	Beinn Bheula Schist Formation - Metawacke
	DCBB-PSPE	Beinn Bheula Schist Formation - Psammite and pelite
	DCBB-PSPP	Beinn Bheula Schist Formation - Pelite, semipelite and psammite
	DCBB-SCH	Beinn Bheula Schist Formation - Schist



Subsidiary	For Stage Approval	Status	S4
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Solid Geology (BGS 1:50k)
Sheet 3 of 3

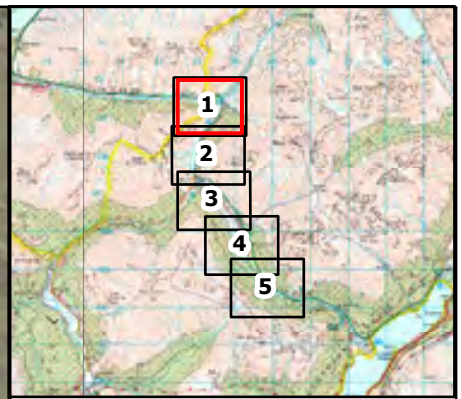
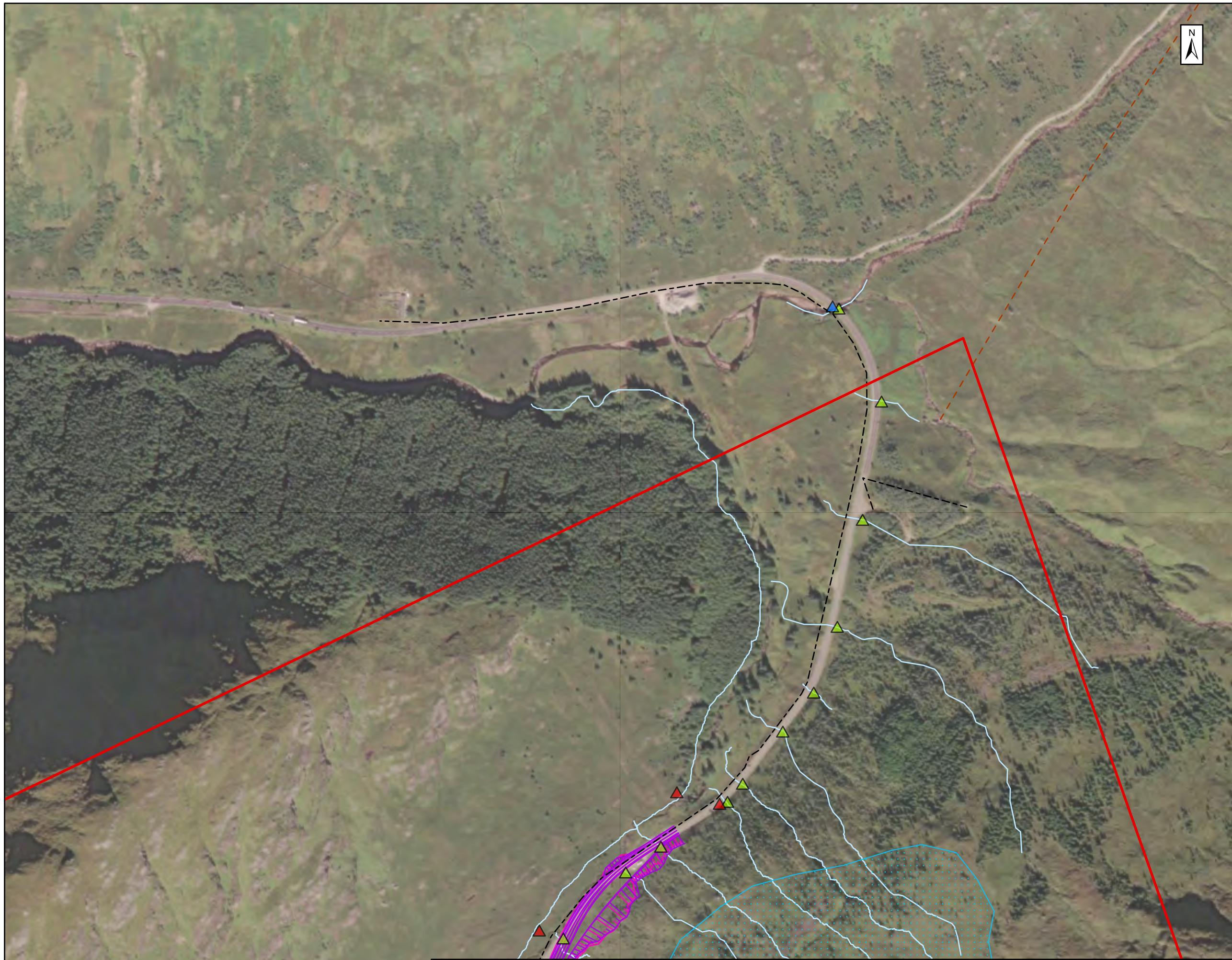
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Project	Originator	Volume							
Location	Type	Role							

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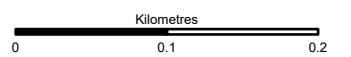
Geotechnical

[A83AAB-AWJ-EGT-LTS_GEN-DR-VT-000123](#) – Geotechnical Constraints and Hazards

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- ▬ Preferred Corridor
- ▬ Watercourses
- - - Inferred Fault
- Alignment Options**
- ▬ Brown Option
- ▬ Yellow Option
- ▬ Purple Option
- ▬ Green Option
- ▬ Pink Option
- Geohazards**
- ▭ Historical Mass Movement Deposits
- BEAR - Past Failures**
- ▭ Channelised Debris Flow
- ▭ Debris Slide
- ▭ Embankment Failure
- ▭ Hillslope Debris Flow
- Existing Structures**
- ▲ Retaining Walls
- ▲ Bridge
- ▲ Culverts
- ▬ Hesco Barrier
- Utilities**
- Telecommunication Masts
- - - BT Underground Cables
- - - SSE Overhead Cables
- Historical Quarrying**
- ▭ Disused Quarry
- ▭ Possible Historical Pit
- Historical and Preliminary Exploratory Holes - Geotechnical Risk**
- ◆ Organic/ Peat
- ◆ Loose/Soft



Subsidiary: For Stage Approval Status: S4



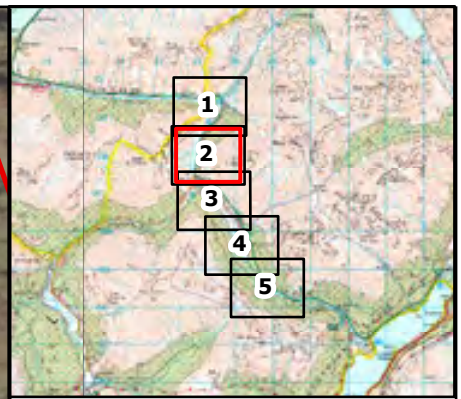
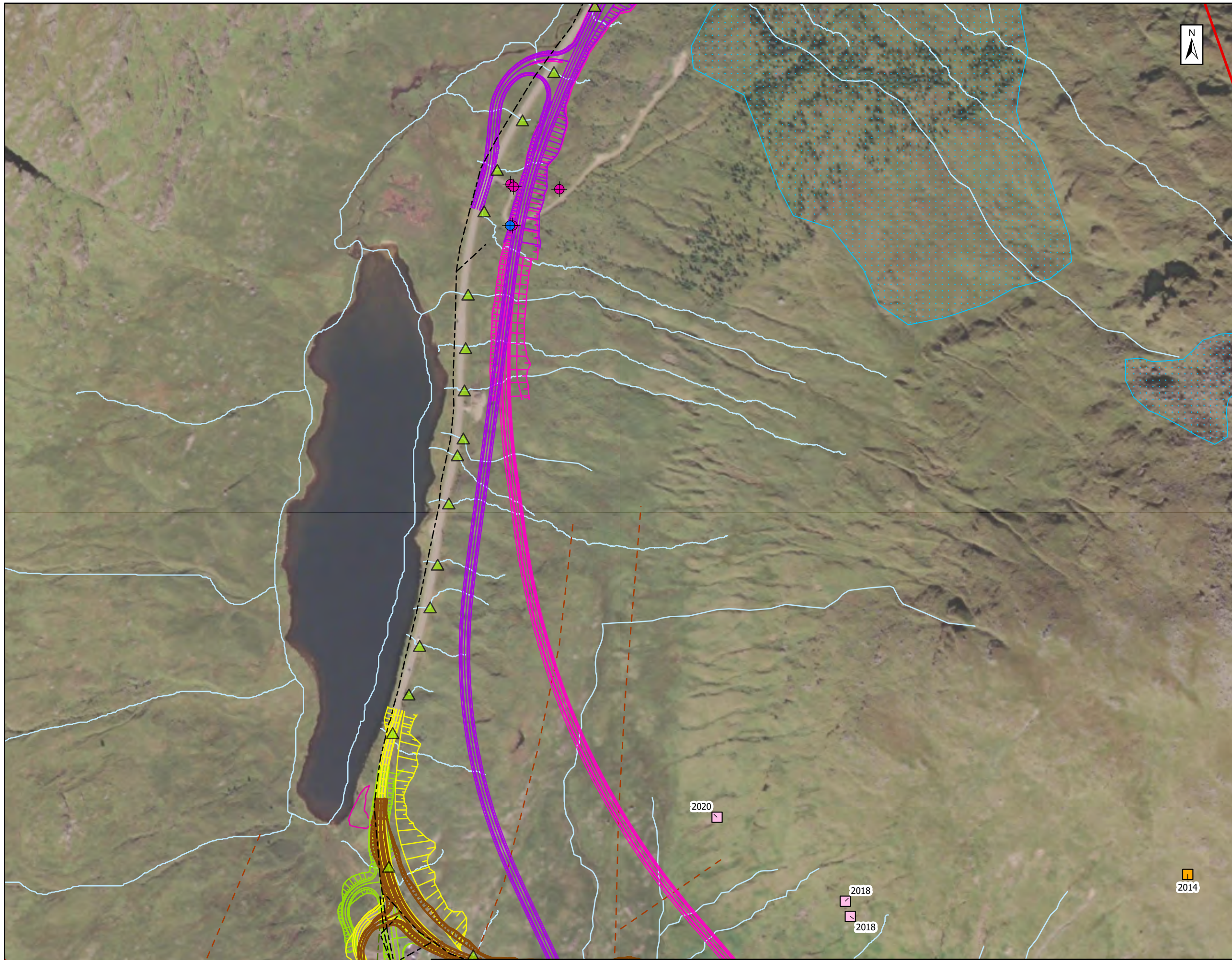
Geotechnical Constraints
Sheet 1 of 5

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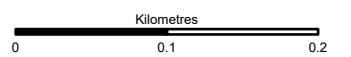
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Scale: 1:5,000	Drawn: HM	Checked: MA	Approved: CP	Authorised: HR
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Location: [Blank]	Type: [Blank]	Role: [Blank]	Number: [Blank]	[Blank]

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- Preferred Corridor
- Watercourses
- - - Inferred Fault
- Alignment Options**
- Brown Option
- Yellow Option
- Purple Option
- Green Option
- Pink Option
- Geohazards**
- Historical Mass Movement Deposits
- BEAR - Past Failures**
- Channelised Debris Flow
- Debris Slide
- Embankment Failure
- Hillslope Debris Flow
- Existing Structures**
- ▲ Retaining Walls
- ▲ Bridge
- ▲ Culverts
- Hesco Barrier
- Utilities**
- Telecommunication Masts
- - - BT Underground Cables
- - - SSE Overhead Cables
- Historical Quarrying**
- Disused Quarry
- Possible Historical Pit
- Historical and Preliminary Exploratory Holes - Geotechnical Risk**
- Organic/ Peat
- Loose/Soft



Subsidiary Status

For Stage Approval S4



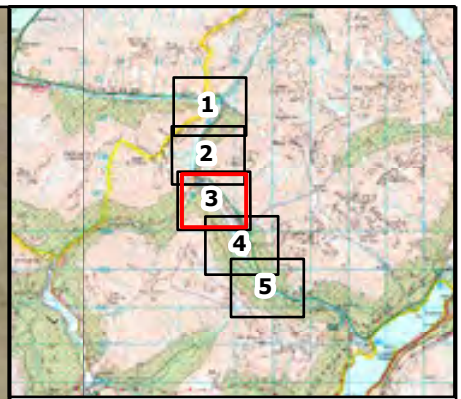
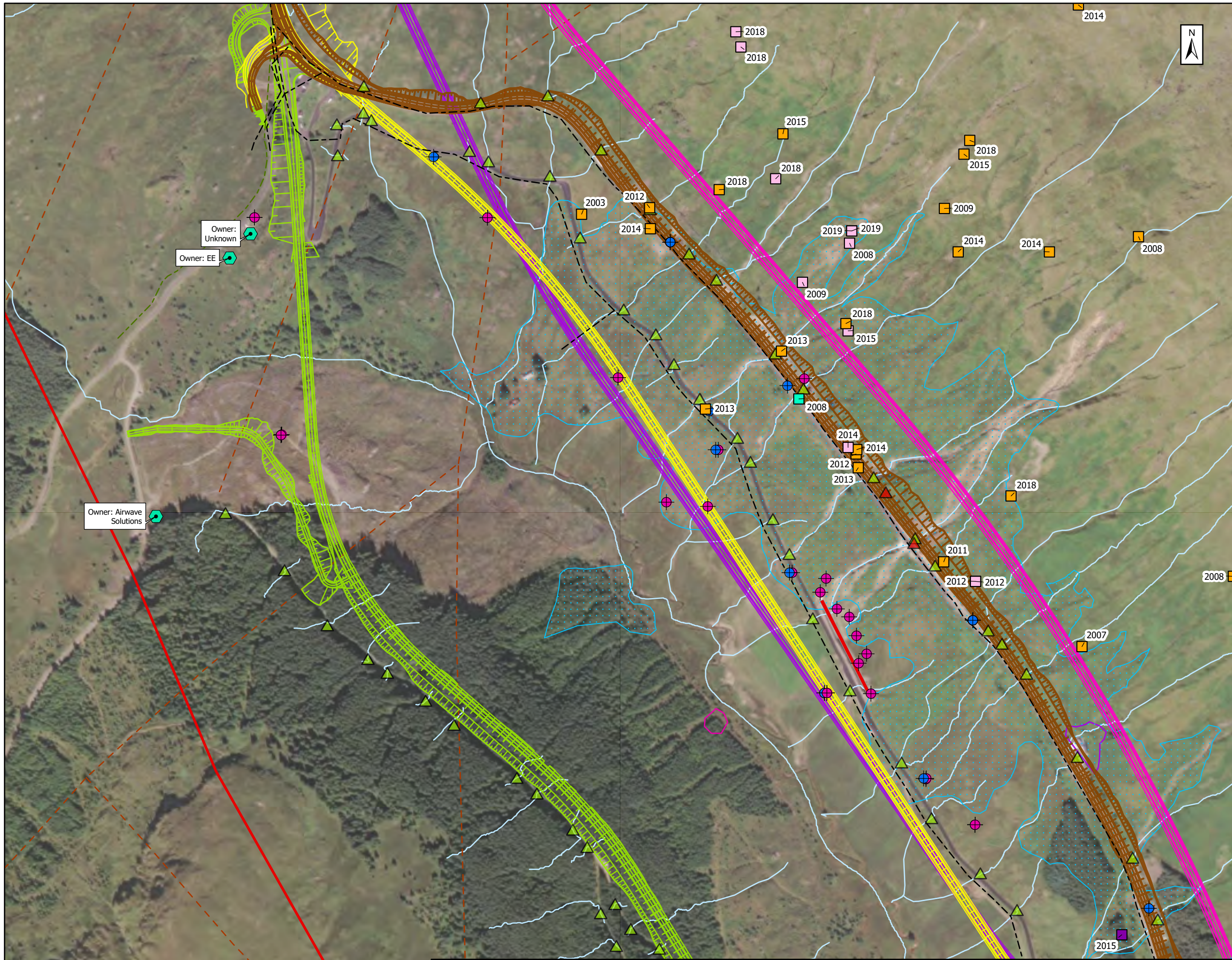
Geotechnical Constraints

Sheet 2 of 5

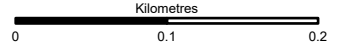
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Document Number	Originator	Volume	Revision	
A83AAB-AWJ-EGT-LTS_GEN-DR-VT-000123			P01	
Location	Type	Role	Number	

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- ▭ Preferred Corridor
- Watercourses
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- Brown Option
- Yellow Option
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- ▭ Disused Quarry
- ▭ Possible Historical Pit
- Historical and Preliminary Exploratory Holes - Geotechnical Risk**
- Organic/ Peat
- Loose/Soft



For Stage Approval S4



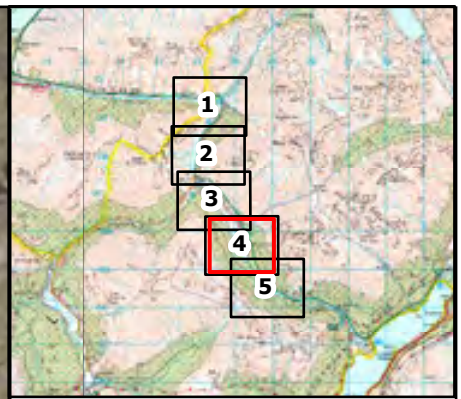
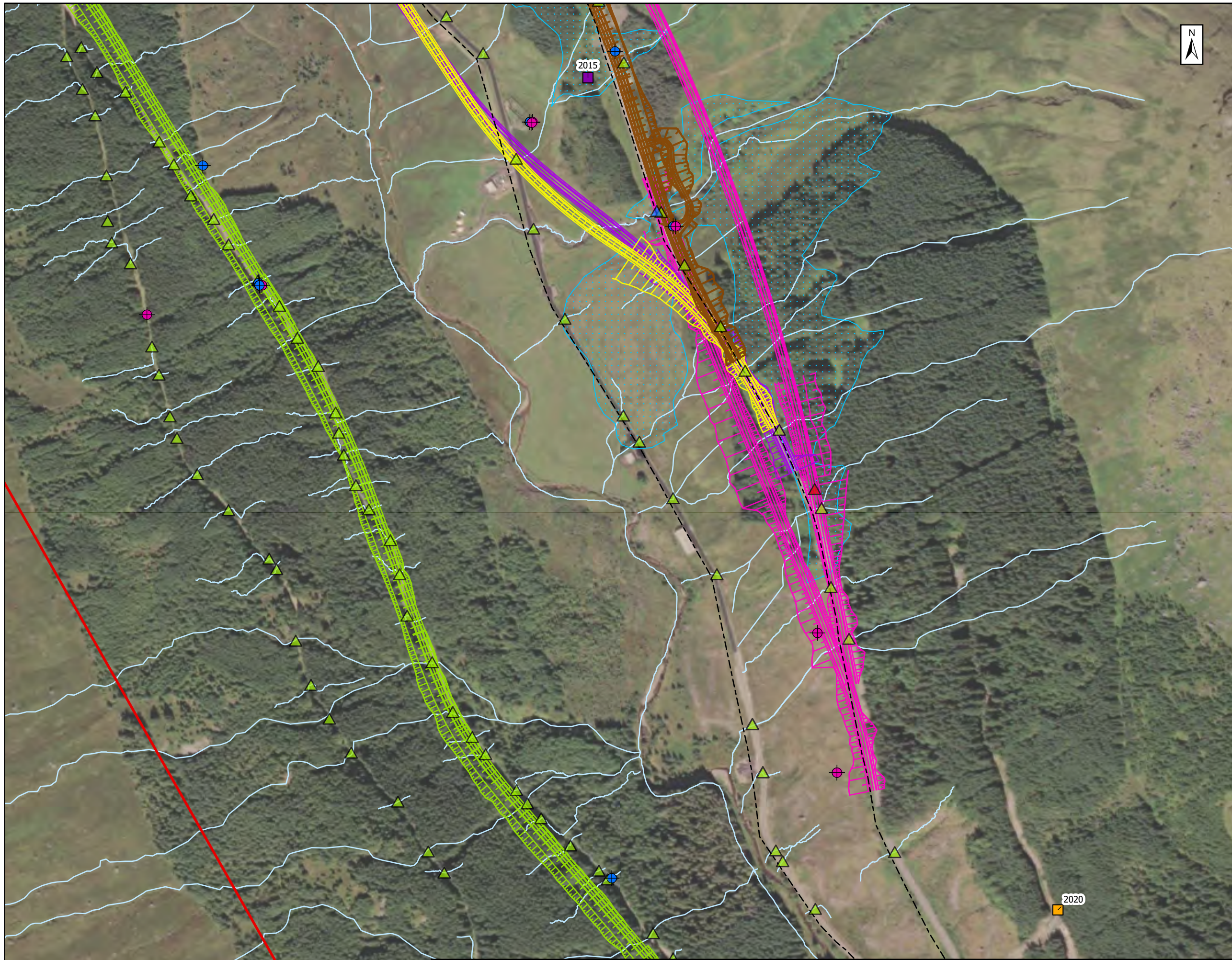
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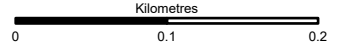
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Document Number	Project		Originator		Volume		Revision		
A83AAB-AWJ-EGT-LTS_GEN-DR-VT-000123		P01							
Location	Type	Role	Number						

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- ▬ Preferred Corridor
- ▬ Watercourses
- - - Inferred Fault
- Alignment Options**
- ▬ Brown Option
- ▬ Yellow Option
- ▬ Purple Option
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- ▭ Hillslope Debris Flow
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- ▭ Disused Quarry
- ▭ Possible Historical Pit
- Historical and Preliminary Exploratory Holes - Geotechnical Risk**
- Organic/ Peat
- Loose/Soft



Subsidiary: For Stage Approval Status: S4



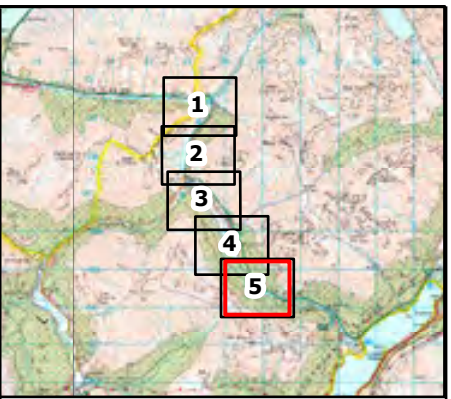
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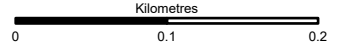
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Document Number: A83AAB-AWJ-EGT-LTS_GEN-DR-VT-000123	Project: A83AAB-AWJ-EGT-LTS_GEN-DR-VT-000123	Originator: P01	Volume: P01	Revision: P01
Location:	Type:	Role:	Number:	

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- ▬ Preferred Corridor
- ▬ Watercourses
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- Alignment Options**
- ▬ Brown Option
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- ▭ Embankment Failure
- ▭ Hillslope Debris Flow
- Existing Structures**
- ▴ Retaining Walls
- ▴ Bridge
- ▴ Culverts
- ▬ Hesco Barrier
- Utilities**
- Telecommunication Masts
- - - BT Underground Cables
- ▬ SSE Overhead Cables
- Historical Quarrying**
- ▭ Disused Quarry
- ▭ Possible Historical Pit
- Historical and Preliminary Exploratory Holes - Geotechnical Risk**
- Organic/ Peat
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Subsidiary: For Stage Approval Status: S4



Geotechnical Constraints
Sheet 5 of 5

Scale: 1:5,000	Drawn: HM	Checked: MA	Approved: CP	Authorised: HR
Document Number: A83AAB-AWJ-EGT-LTS_GEN-DR-VT-000123	Project: A83AAB-AWJ-EGT-LTS_GEN-DR-VT-000123	Originator: HR	Volume: P01	Revision: P01
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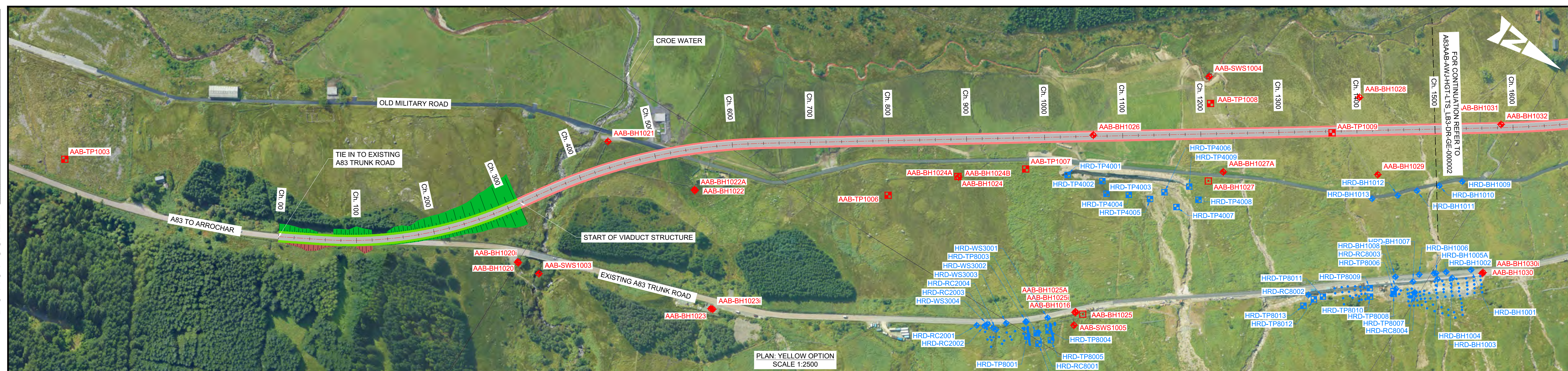
Yellow Option

[A83AAB-AWJ-HGT-LTS_LB3-DR-GE-000001_P01.pdf](#) – Exploratory Hole Plan and Profile –
Sheet 1 of 2

[A83AAB-AWJ-HGT-LTS_LB3-DR-GE-000002_P01.pdf](#) – Exploratory Hole Plan and Profile –
Sheet 1 of 2

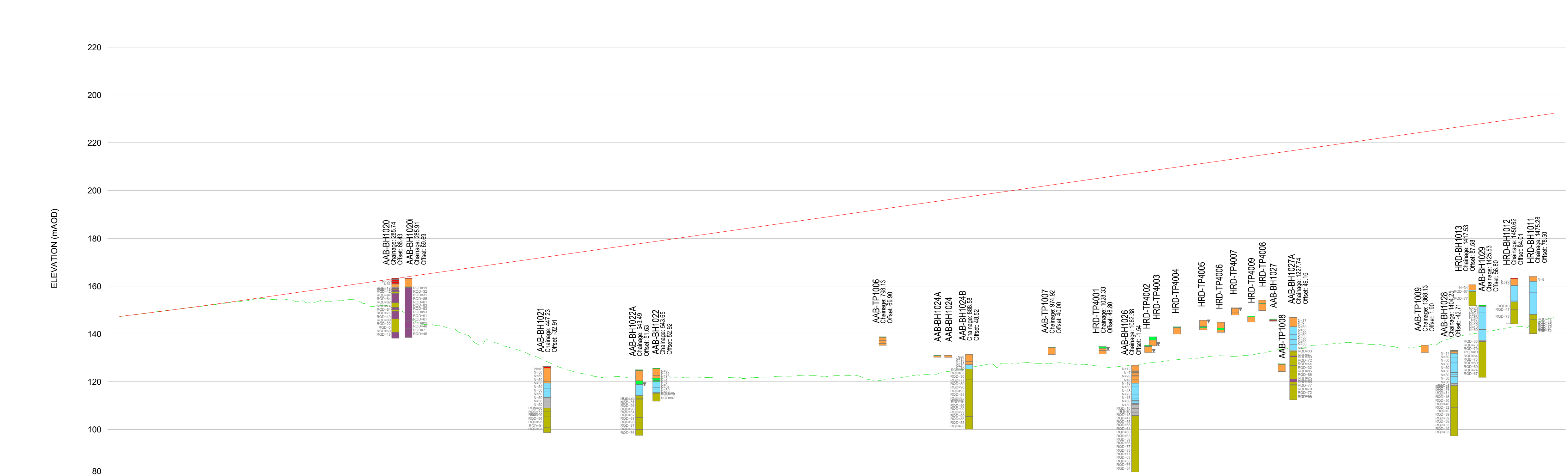
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100
0 10
DO NOT SCALE



PLAN: YELLOW OPTION
SCALE 1:2500

- KEY - PROFILE:**
- PROPOSED DESIGN PROFILE
 - - - EXISTING GROUND PROFILE
 - TOP SOIL
 - MADE GROUND
 - PEAT
 - ALLUVIUM
 - COLLUVIUM
 - GLACIAL TILL
 - WEATHERED ROCK
 - METAMORPHIC ROCK
 - IGNEOUS ROCK
 - UNDEFINED ROCK
 - WATER STRIKE RISE
 - WATER STRIKE
 - SPT 'N' VALUE
 - ROCK QUALITY DESIGNATION



CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS
0+000	147.274	147.274
20+000	148.267	148.274
40+000	149.275	149.275
60+000	150.300	150.300
80+000	151.365	151.365
100+000	152.470	152.470
120+000	153.608	153.608
140+000	154.748	154.748
160+000	155.888	155.888
180+000	157.028	157.028
200+000	158.168	158.168
220+000	159.308	159.308
240+000	160.449	160.449
260+000	161.589	161.589
280+000	162.729	162.729
300+000	163.869	163.869
320+000	165.009	165.009
340+000	166.149	166.149
360+000	167.289	167.289
380+000	168.429	168.429
400+000	169.570	169.570
420+000	170.710	170.710
440+000	171.850	171.850
460+000	172.990	172.990
480+000	174.130	174.130
500+000	175.270	175.270
520+000	176.410	176.410
540+000	177.550	177.550
560+000	178.691	178.691
580+000	179.831	179.831
600+000	180.971	180.971
620+000	182.111	182.111
640+000	183.251	183.251
660+000	184.391	184.391
680+000	185.531	185.531
700+000	186.671	186.671
720+000	187.812	187.812
740+000	188.952	188.952
760+000	190.092	190.092
780+000	191.232	191.232
800+000	192.372	192.372
820+000	193.512	193.512
840+000	194.652	194.652
860+000	195.792	195.792
880+000	196.933	196.933
900+000	198.073	198.073
920+000	199.213	199.213
940+000	200.353	200.353
960+000	201.493	201.493
980+000	202.633	202.633
1000+000	203.773	203.773
1020+000	204.913	204.913
1040+000	206.054	206.054
1060+000	207.194	207.194
1080+000	208.334	208.334
1100+000	209.474	209.474
1120+000	210.614	210.614
1140+000	211.754	211.754
1160+000	212.894	212.894
1180+000	214.034	214.034
1200+000	215.175	215.175
1220+000	216.315	216.315
1240+000	217.455	217.455
1260+000	218.595	218.595
1280+000	219.735	219.735
1300+000	220.875	220.875
1320+000	222.015	222.015
1340+000	223.155	223.155
1360+000	224.296	224.296
1380+000	225.436	225.436
1400+000	226.576	226.576
1420+000	227.716	227.716
1440+000	228.856	228.856
1460+000	229.996	229.996
1480+000	231.136	231.136
1500+000	232.276	232.276

PROFILE: YELLOW OPTION
SCALE: H 1:2500, V 1:1000

- NOTES:**
- ALL DIMENSIONS SHOWN ARE IN METRES UNLESS STATED OTHERWISE.
 - ALL DESIGNS ARE PRELIMINARY AND HAVE BEEN DEVELOPED FOR COMPARATIVE ASSESSMENT AT DMRB STAGE 2 ONLY.
- KEY - PLAN:**
- PROPOSED CARRIAGEWAY
 - PROPOSED VERGE
 - PROPOSED FOOTWAY
 - PROPOSED EARTHWORK EMBANKMENT
 - PROPOSED EARTHWORK CUTTING
 - ♦ 2022 PRELIMINARY GROUND INVESTIGATION LOCATIONS
 - ♦ HISTORICAL GROUND INVESTIGATION LOCATIONS
 - ♦ HISTORICAL PROBE HOLE LOCATIONS



Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Stage 2 Issue	S4	P01	ME	GM	HR	RHG	26/05/23

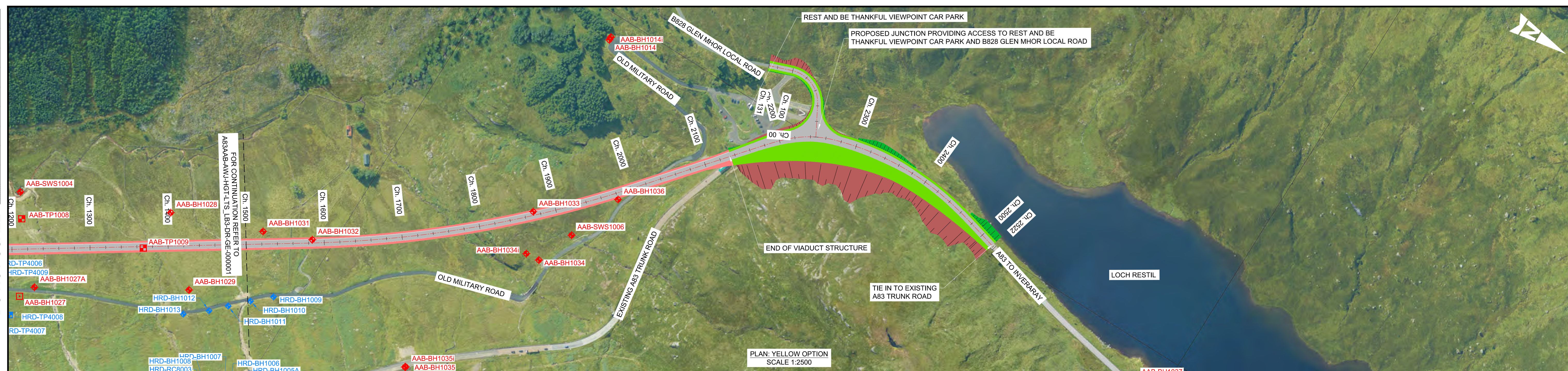
ATKINS **wsp**
Member of the SNC-Lavalin Group

TRANSPORT SCOTLAND
COMHDAIL ALBA

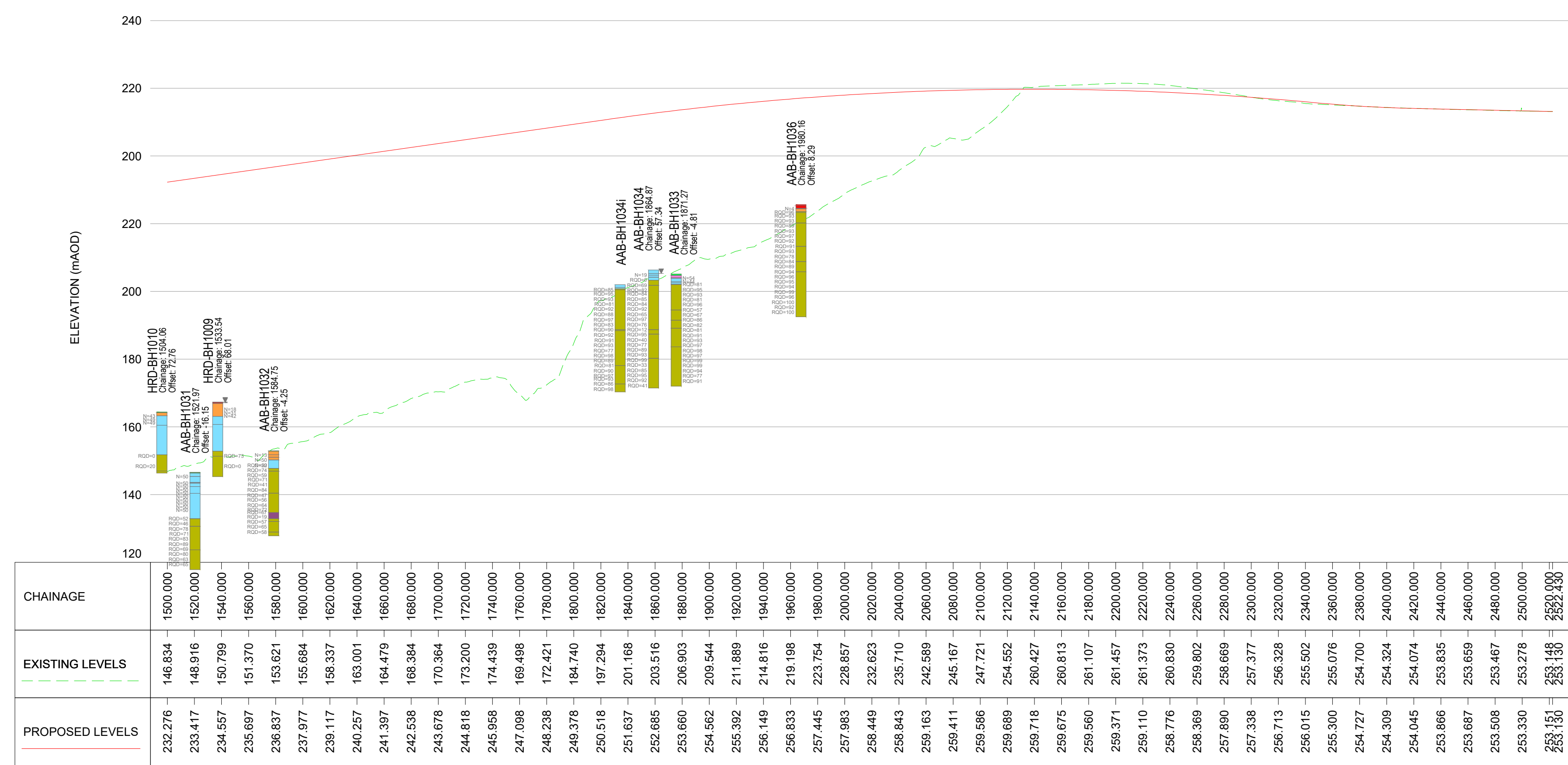
Project Stage / Design Fix	DMRB Stage 2	State	Preliminary
Project Title	A83 AAB		
Drawing Title	YELLOW OPTION EXPLORATORY HOLE PLAN AND PROFILE		
Drawing Number	Project	Originator	Volume
A83AAB - AWJ - HGT - LTS_LB3	- DR-GE-00001		
Location	Type	Role	Number
A1	AS SHOWN	5204594	1 of 2
Scale	AS SHOWN	Project Ref. No.	Sheet
1:2500	1:2500	5204594	1 of 2
Project Ref. No.	Sheet	Rev.	Number
5204594	1 of 2	P01	

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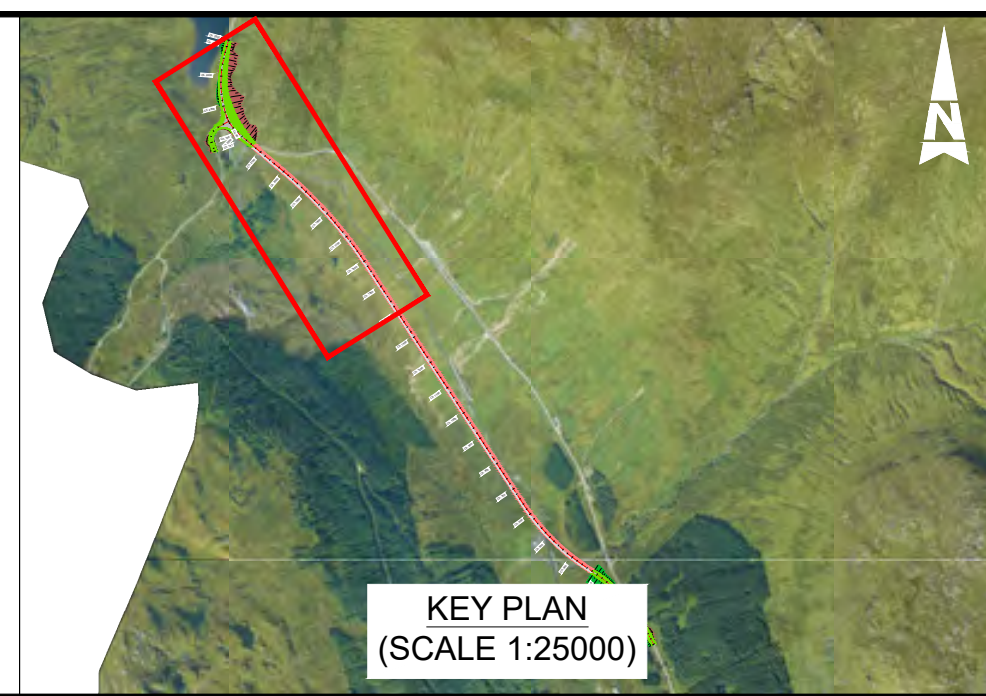
- KEY - PROFILE:**
- PROPOSED DESIGN PROFILE
 - EXISTING GROUND PROFILE
 - TOP SOIL
 - MADE GROUND
 - PEAT
 - ALLUVIUM
 - COLLUVIUM
 - GLACIAL TILL
 - WEATHERED ROCK
 - METAMORPHIC ROCK
 - IGNEOUS ROCK
 - UNDEFINED ROCK
 - WATER STRIKE RISE
 - WATER STRIKE
 - SPT 'N' VALUE
 - ROCK QUALITY DESIGNATION



CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS
1500.000	146.834	232.276
1520.000	148.916	233.417
1540.000	150.799	234.557
1560.000	151.370	235.697
1580.000	153.621	236.837
1600.000	155.684	237.977
1620.000	158.337	239.117
1640.000	163.001	240.257
1660.000	164.479	241.397
1680.000	168.384	242.538
1700.000	170.364	243.678
1720.000	173.200	244.818
1740.000	174.439	245.958
1760.000	169.498	247.098
1780.000	172.421	248.238
1800.000	184.740	249.378
1820.000	197.294	250.518
1840.000	201.168	251.657
1860.000	203.516	252.797
1880.000	206.903	253.937
1900.000	209.544	255.077
1920.000	211.889	256.217
1940.000	214.816	257.357
1960.000	219.198	258.497
1980.000	223.754	259.637
2000.000	228.857	260.777
2020.000	232.623	261.917
2040.000	235.710	263.057
2060.000	242.589	264.197
2080.000	245.167	265.337
2100.000	247.721	266.477
2120.000	254.552	267.617
2140.000	260.427	268.757
2160.000	260.813	269.897
2180.000	261.107	271.037
2200.000	261.457	272.177
2220.000	261.373	273.317
2240.000	260.830	274.457
2260.000	259.802	275.597
2280.000	258.669	276.737
2300.000	257.377	277.877
2320.000	256.328	279.017
2340.000	255.502	280.157
2360.000	255.076	281.297
2380.000	254.700	282.437
2400.000	254.324	283.577
2420.000	254.074	284.717
2440.000	253.835	285.857
2460.000	253.659	286.997
2480.000	253.467	288.137
2500.000	253.278	289.277
2520.000	253.148	290.417
2522.330	253.130	291.557

PROFILE: YELLOW OPTION
SCALE: H 1:2500, V 1:1000

- NOTES:**
- ALL DIMENSIONS SHOWN ARE IN METRES UNLESS STATED OTHERWISE.
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- KEY - PLAN:**
- PROPOSED CARRIAGEWAY
 - PROPOSED VERGE
 - PROPOSED FOOTWAY
 - PROPOSED EARTHWORK EMBANKMENT
 - PROPOSED EARTHWORK CUTTING
 - 2022 PRELIMINARY GROUND INVESTIGATION LOCATIONS
 - HISTORICAL GROUND INVESTIGATION LOCATIONS
 - HISTORICAL PROBE HOLE LOCATIONS



Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Stage 2 Issue	S4	P01	ME	GM	HR	RHG	26/05/23

Status: S4
Drawing Suitability: FOR STAGE APPROVAL

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TRANSPORT SCOTLAND
COMHDAIL ALBA

Project Stage / Design File: DMRB Stage 2	Status: Preliminary
Project Title: A83 AAB	Drawing Title: YELLOW OPTION EXPLORATORY HOLE PLAN AND PROFILE
Drawing Number: A83AAB - AWJ - HGT - LTS_LB3 - DR-GE-00002	Originator: Volume
Location: Type: Role: Number	Original Size: A1
Scale: AS SHOWN	Project Ref. No.: 6204594
Sheet: 2 of 2	Rev: P01

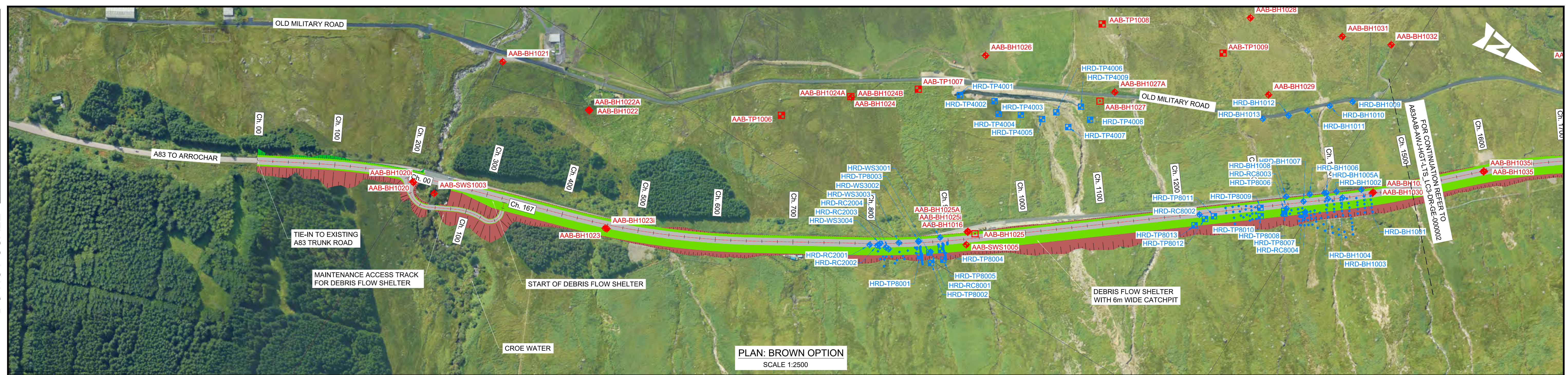
Brown Option

[A83AAB-AWJ-HGT-LTS LC3-DR-GE-000001_P01.pdf](#) – Exploratory Hole Plan and Profile
– Sheet 1 of 2

[A83AAB-AWJ-HGT-LTS LC3-DR-GE-000002_P01.pdf](#) – Exploratory Hole Plan and Profile
– Sheet 1 of 2

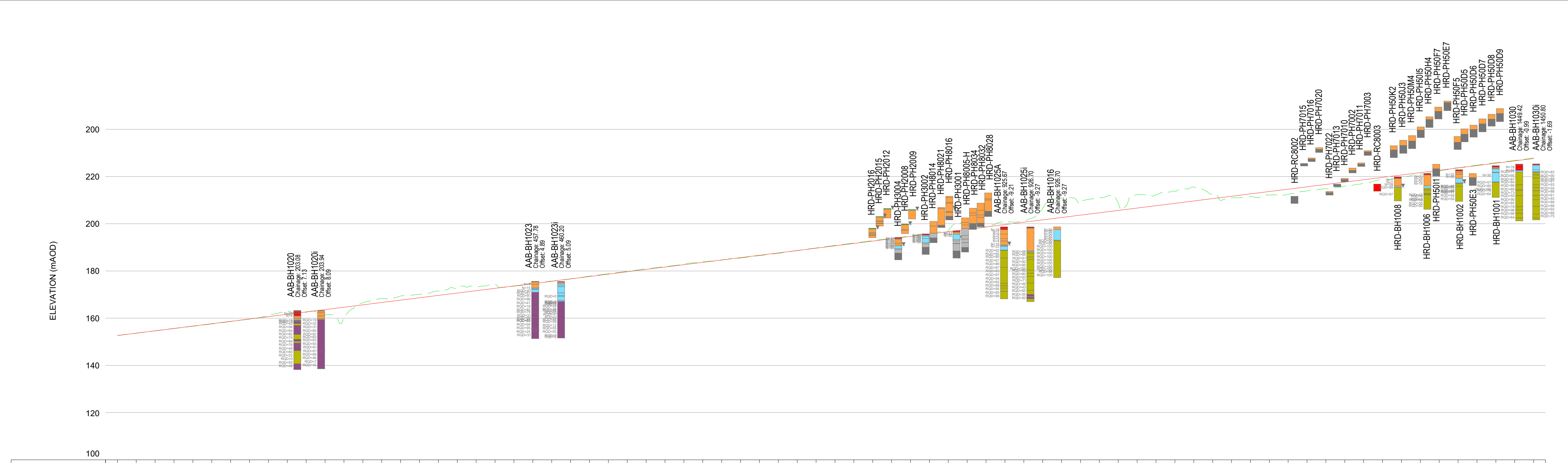
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DO NOT SCALE



KEY - PROFILE:

- PROPOSED DESIGN PROFILE
- EXISTING GROUND PROFILE
- █ TOP SOIL
- █ MADE GROUND
- █ PEAT
- █ ALLUVIUM
- █ COLLUVIUM
- █ GLACIAL TILL
- █ WEATHERED ROCK
- █ METAMORPHIC ROCK
- █ IGNEOUS ROCK
- █ UNDEFINED ROCK
- █ WATER STRIKE RISE
- █ WATER STRIKE
- █ SPT 'N' VALUE
- █ ROCK QUALITY DESIGNATION



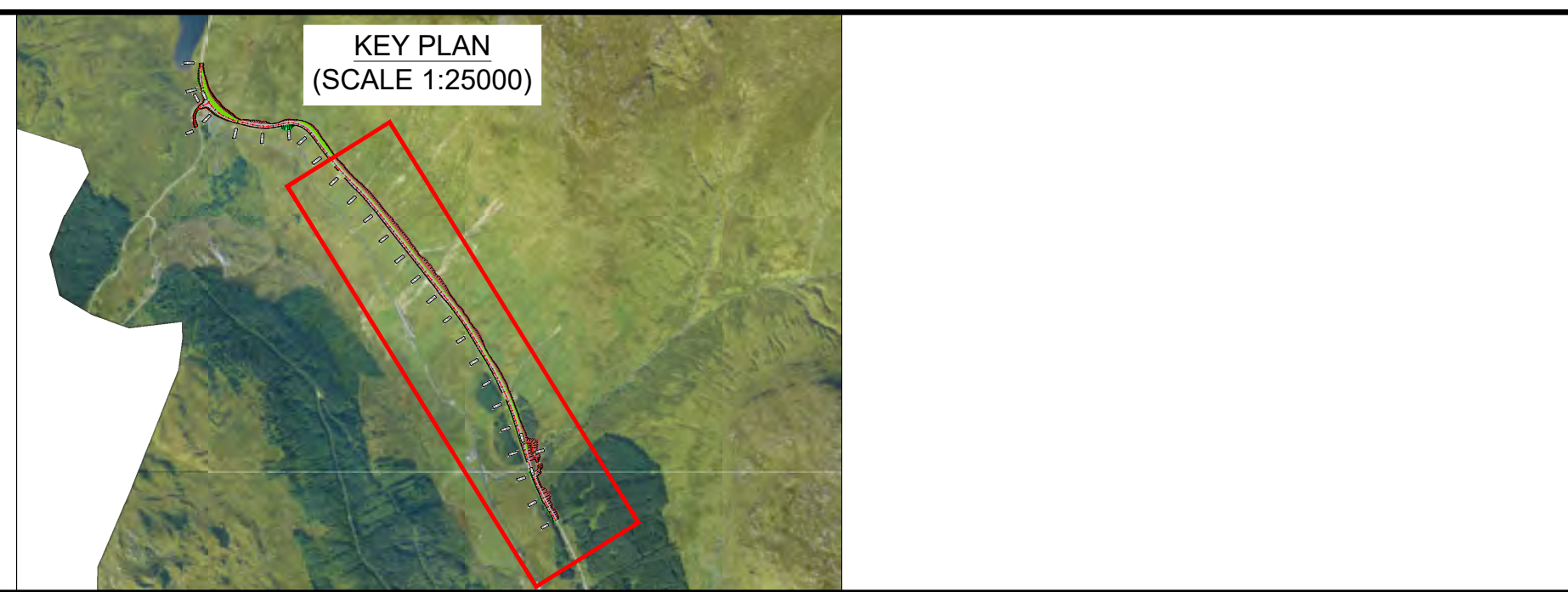
CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS
0.000	152.640	152.640
20.000	153.652	153.640
40.000	154.628	154.640
60.000	155.624	155.640
80.000	156.585	156.640
100.000	157.560	157.640
120.000	158.579	158.640
140.000	159.567	159.640
160.000	160.972	160.640
180.000	163.117	161.640
200.000	162.518	162.640
220.000	161.378	163.640
240.000	160.202	164.640
260.000	166.444	165.640
280.000	168.351	166.640
300.000	168.380	167.640
320.000	170.069	168.640
340.000	171.461	168.640
360.000	172.795	170.640
380.000	173.396	171.640
400.000	174.290	172.640
420.000	173.581	173.640
440.000	174.477	174.640
460.000	175.642	176.640
480.000	176.632	177.640
500.000	177.793	178.640
520.000	178.843	179.640
540.000	179.886	180.640
560.000	180.933	181.640
580.000	181.833	182.640
600.000	182.797	183.640
620.000	184.024	184.640
640.000	184.615	185.640
660.000	185.475	186.640
680.000	186.506	187.640
700.000	187.563	188.640
720.000	188.586	189.640
740.000	189.722	190.640
760.000	190.823	191.640
780.000	191.822	192.640
800.000	192.890	193.640
820.000	193.863	194.640
840.000	194.828	195.640
860.000	196.102	196.640
880.000	196.978	197.640
900.000	200.084	198.640
920.000	198.592	199.640
940.000	201.292	200.640
960.000	201.182	201.640
980.000	206.548	202.640
1000.000	210.839	203.640
1020.000	208.845	204.640
1040.000	210.988	205.640
1060.000	208.729	206.640
1080.000	212.342	207.640
1100.000	212.227	208.640
1120.000	213.729	209.640
1140.000	215.494	210.640
1160.000	212.544	211.640
1180.000	210.954	212.640
1200.000	211.482	213.640
1220.000	212.159	214.640
1240.000	212.482	215.640
1260.000	213.893	216.640
1280.000	214.787	217.640
1300.000	215.914	218.640
1320.000	217.181	219.640
1340.000	218.736	220.640
1360.000	218.824	221.640
1380.000	221.049	222.640
1400.000	222.352	223.640
1420.000	223.712	224.640
1440.000	224.844	225.640
1460.000	225.876	226.640
1480.000	226.801	227.640
1500.000	227.870	227.623

NOTES:

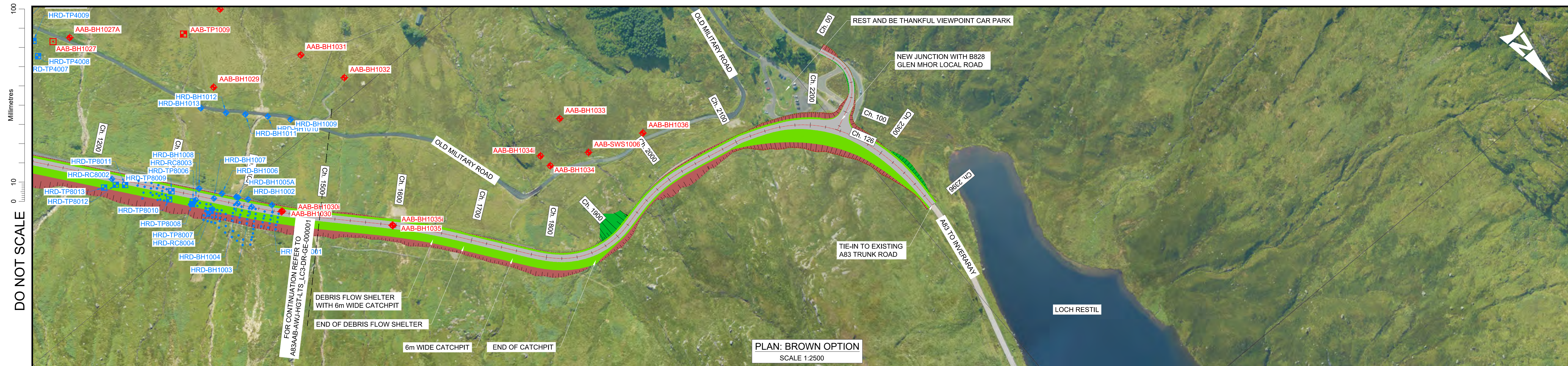
- ALL DIMENSIONS SHOWN ARE IN METRES UNLESS STATED OTHERWISE.
- ALL DESIGNS ARE PRELIMINARY AND HAVE BEEN DEVELOPED FOR COMPARATIVE ASSESSMENT AT DMRB STAGE 2 ONLY.

KEY - PLAN:

- █ PROPOSED CARRIAGEWAY
- █ PROPOSED VERGE
- █ PROPOSED FOOTWAY
- █ PROPOSED EARTHWORK EMBANKMENT
- █ PROPOSED EARTHWORK CUTTING
- ♦ 2022 PRELIMINARY GROUND INVESTIGATION LOCATIONS
- ♦ HISTORICAL GROUND INVESTIGATION LOCATIONS
- ♦ HISTORICAL PROBE HOLE LOCATIONS

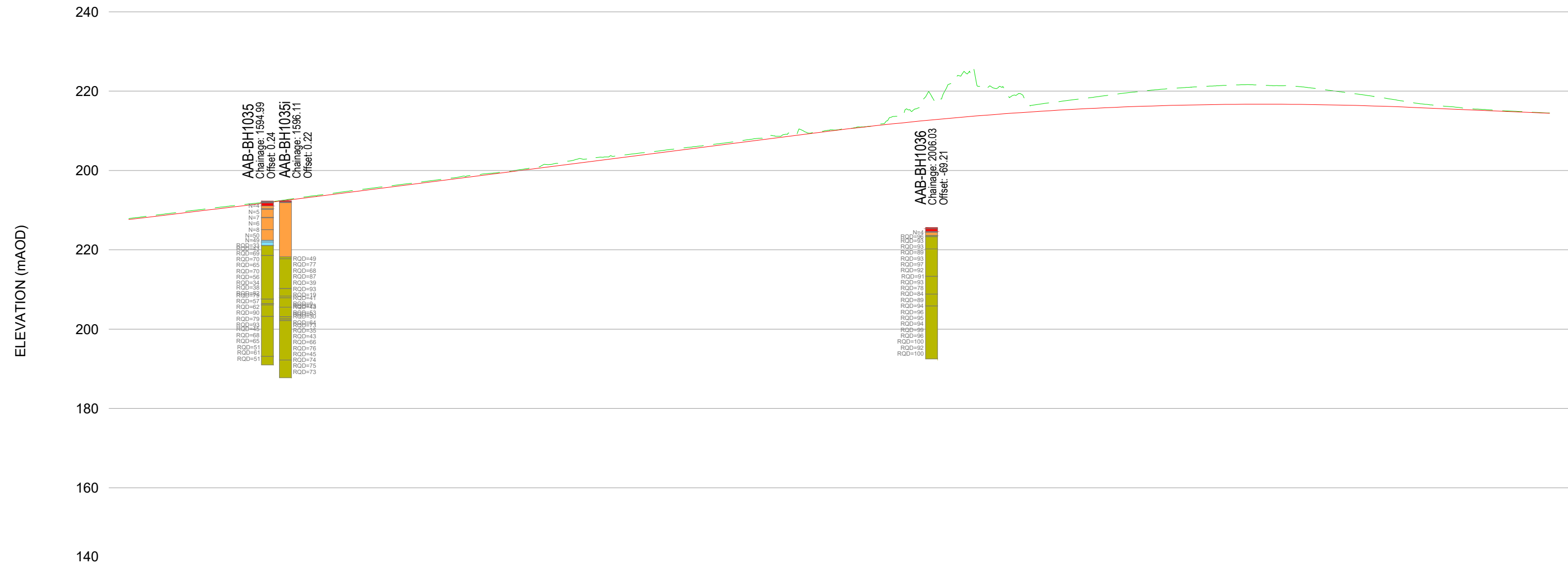


Description		Status	Drawing Suitability		Project Stage / Design File	DMRB Stage 2		State		Preliminary		
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	S4		FOR STAGE APPROVAL		A83 AAB	
Description												
Description												
Description		BROWN OPTION EXPLORATORY HOLE PLAN AND PROFILE										
Description		Drawing Number: A83AAB - AWJ - HGT - LTS_LC3 - DR-GE-00001 Originator: [blank] Volume: [blank] Location: [blank] Type: [blank] Role: [blank] Number: [blank]										
Description		Original Size: A1 Scale: AS SHOWN Project Ref. No.: 5204594 Sheet: 1 of 2 Rev: P01										



PLAN: BROWN OPTION
SCALE 1:2500

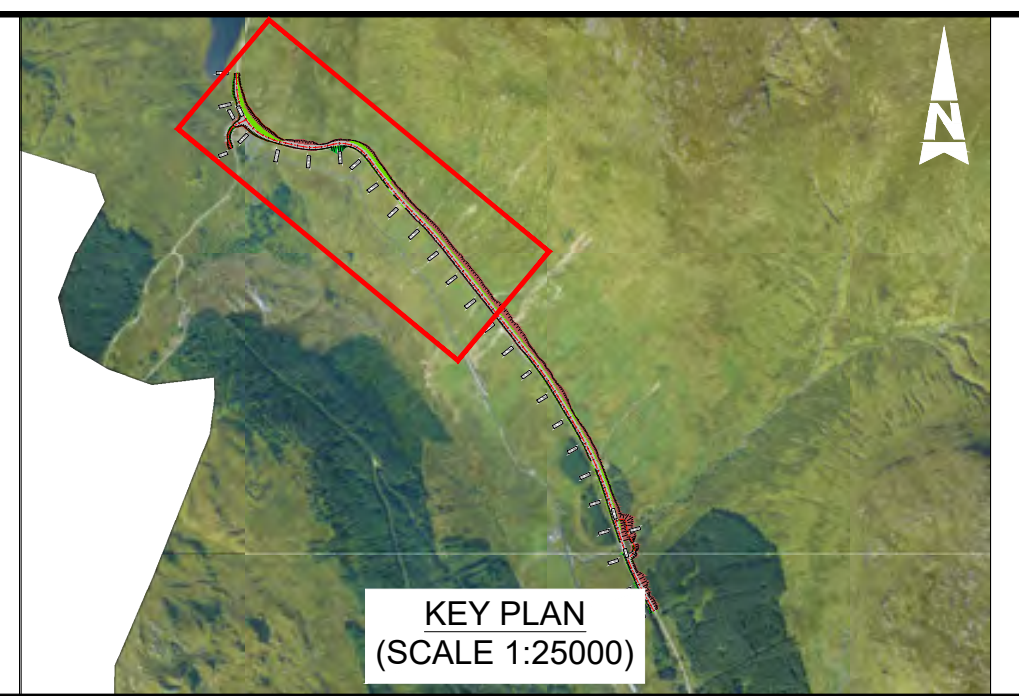
- KEY - PROFILE:**
- PROPOSED DESIGN PROFILE
 - EXISTING GROUND PROFILE
 - TOP SOIL
 - MADE GROUND
 - PEAT
 - ALLUVIUM
 - COLLUVIUM
 - GLACIAL TILL
 - WEATHERED ROCK
 - METAMORPHIC ROCK
 - IGNEOUS ROCK
 - UNDEFINED ROCK
 - WATER STRIKE RISE
 - WATER STRIKE
 - SPT 'N' VALUE
 - ROCK QUALITY DESIGNATION



CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS
1500.000	227.870	227.623
1520.000	228.883	228.592
1540.000	229.884	229.552
1560.000	230.849	230.515
1580.000	231.730	231.495
1600.000	232.666	232.486
1620.000	233.602	233.515
1640.000	234.858	234.533
1660.000	235.872	235.553
1680.000	236.874	236.573
1700.000	237.891	237.593
1720.000	238.920	238.613
1740.000	239.799	239.633
1760.000	241.170	240.653
1780.000	242.519	241.673
1800.000	243.391	242.693
1820.000	244.270	243.713
1840.000	245.223	244.733
1860.000	246.152	245.753
1880.000	247.151	246.773
1900.000	248.035	247.793
1920.000	249.111	248.813
1940.000	250.085	249.830
1960.000	250.983	250.794
1980.000	251.372	251.685
2000.000	252.647	252.503
2020.000	262.719	253.248
2040.000	261.202	253.921
2060.000	259.149	254.521
2080.000	257.030	255.048
2100.000	258.045	255.503
2120.000	259.105	255.884
2140.000	260.042	256.193
2160.000	260.748	256.430
2180.000	261.228	256.593
2200.000	261.587	256.684
2220.000	261.396	256.702
2240.000	261.058	256.648
2260.000	260.032	256.520
2280.000	258.946	256.320
2300.000	257.707	256.048
2320.000	256.573	255.714
2340.000	255.808	255.374
2360.000	255.228	255.034
2380.000	254.791	254.694
2395.636	254.487	254.428

PROFILE: BROWN OPTION
SCALE: H 1:2500, V 1:1000

- NOTES:**
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 - PROPOSED VERGE
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 - PROPOSED EARTHWORK CUTTING
 - 2022 PRELIMINARY GROUND INVESTIGATION LOCATIONS
 - HISTORICAL GROUND INVESTIGATION LOCATIONS
 - HISTORICAL PROBE HOLE LOCATIONS



Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Stage 2 Issue	S4	P01	ME	GM	HR	RHG	26/05/23

Status: S4
Drawing Suitability: FOR STAGE APPROVAL

ATKINS **wsp**
Member of the SNC-Lavalin Group

TRANSPORT SCOTLAND
COMHDAIL ALBA

Project Stage / Design File: DMRB Stage 2	State: Preliminary
Project Title: A83 AAB	Drawing Title: BROWN OPTION EXPLORATORY HOLE PLAN AND PROFILE
Drawing Number: A83AAB - AWJ - HGT - LTS_LC3 - DR-GE-000002	Originator: Volume
Location: A83AAB - AWJ - HGT - LTS_LC3 - DR-GE-000002	Type: Role: Number
Original Size: A1	Scale: AS SHOWN
Project Ref. No.: 6204594	Sheet: 2 of 2
Rev: P01	

Green Option

[A83AAB-AWJ-HGT-LTS LA0-DR-GE-000001_P02.pdf](#) – Exploratory Hole Plan and Profile –
Sheet 1 of 3

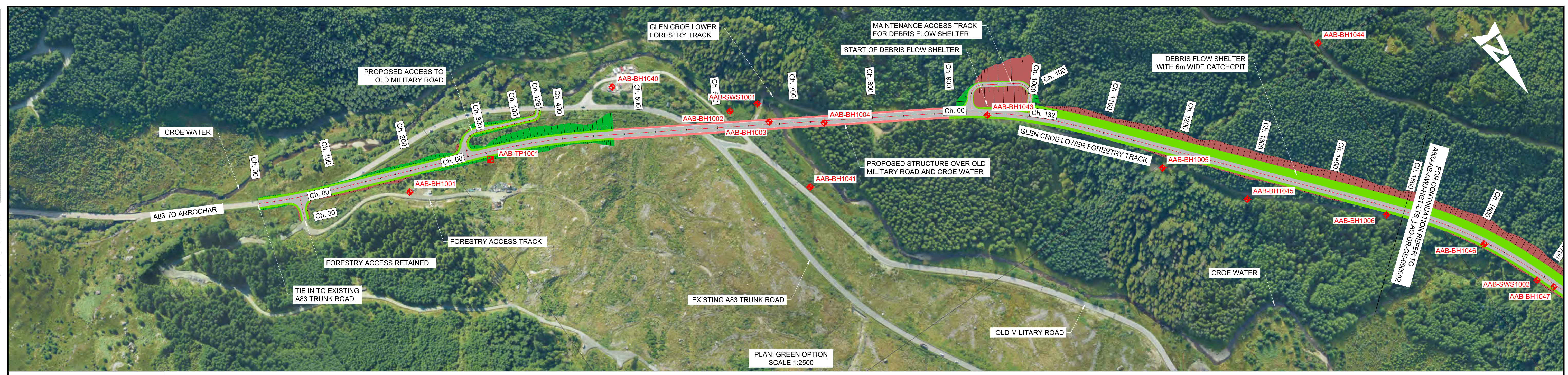
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Sheet 2 of 3

[A83AAB-AWJ-HGT-LTS LA0-DR-GE-000003_P01.pdf](#) – Exploratory Hole Plan and Profile –
Sheet 3 of 3

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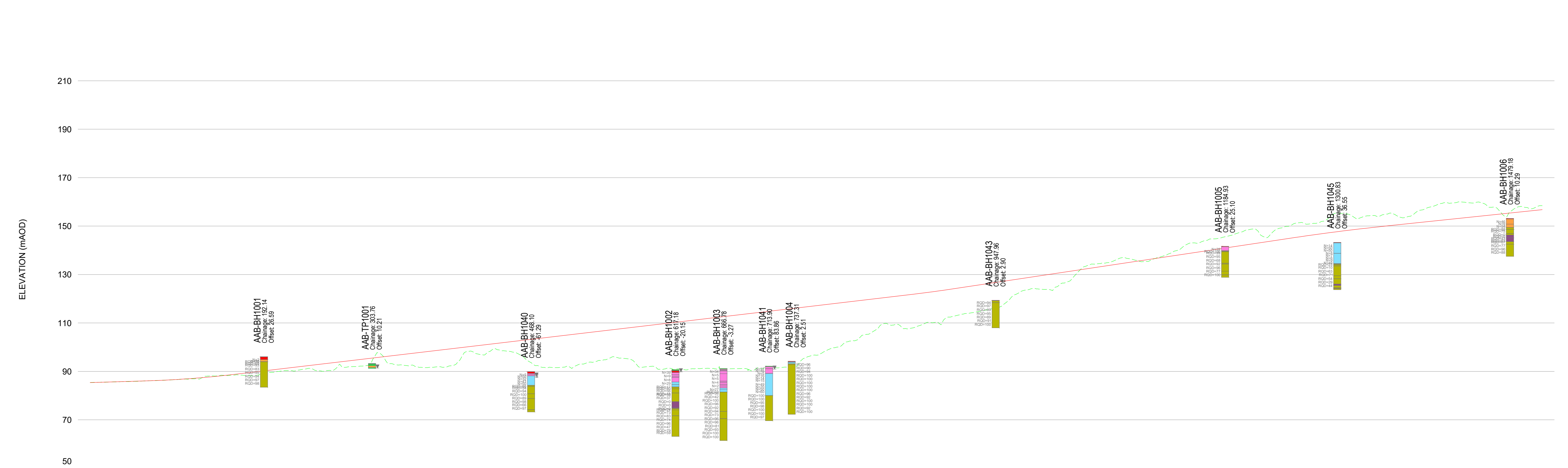
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PLAN: GREEN OPTION
SCALE 1:2500

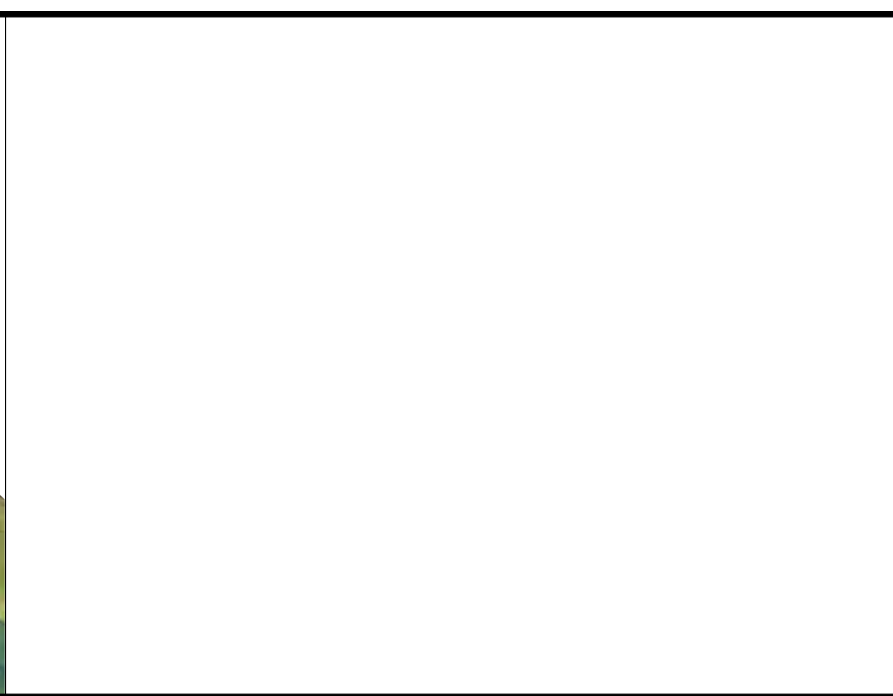
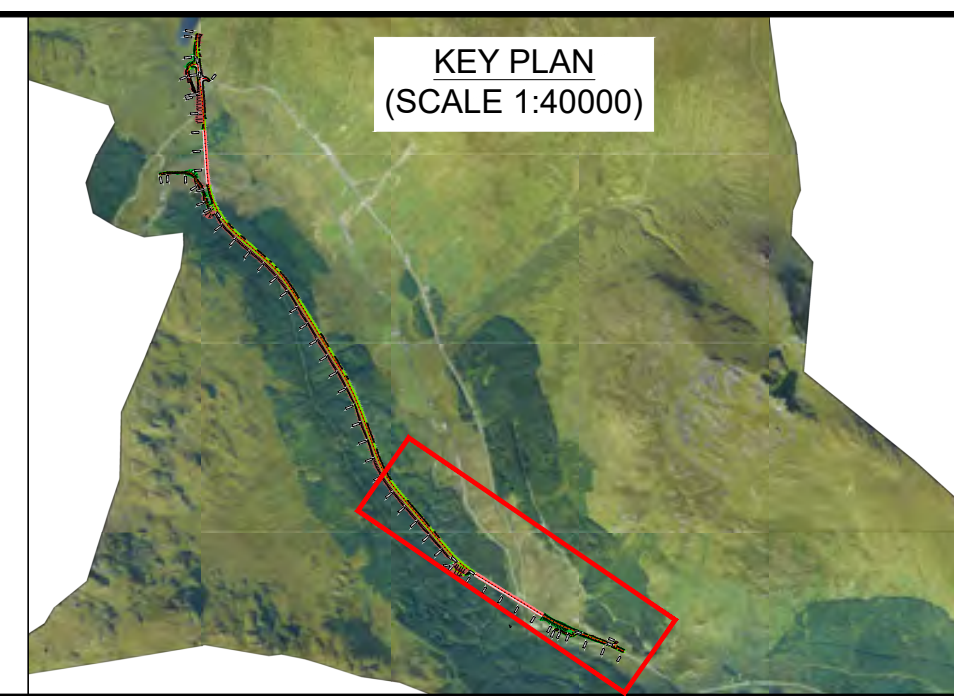
- KEY - PROFILE:**
- PROPOSED DESIGN PROFILE
 - EXISTING GROUND PROFILE
 - TOP SOIL
 - MADE GROUND
 - PEAT
 - ALLUVIUM
 - COLLUVIUM
 - GLACIAL TILL
 - WEATHERED ROCK
 - METAMORPHIC ROCK
 - IGNEOUS ROCK
 - UNDEFINED ROCK
 - WATER STRIKE RISE
 - WATER STRIKE
 - SPT 'N' VALUE
 - ROCK QUALITY DESIGNATION



PROFILE: GREEN OPTION
SCALE: H 1:2500, V 1:1000

CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS
0.000	85.393	85.389
20.000	85.622	85.632
40.000	85.816	85.874
60.000	86.122	86.117
80.000	86.441	86.448
100.000	86.810	86.934
120.000	87.992	87.573
140.000	88.397	88.366
160.000	88.357	88.292
180.000	89.226	90.235
200.000	90.330	91.179
220.000	90.845	92.123
240.000	90.045	93.067
260.000	91.965	94.010
280.000	92.201	94.954
300.000	97.336	95.898
320.000	92.693	96.842
340.000	91.635	97.785
360.000	91.978	98.729
380.000	93.880	99.673
400.000	97.240	100.617
420.000	99.080	101.560
440.000	97.732	102.504
460.000	92.403	103.448
480.000	91.539	104.391
500.000	92.055	105.335
520.000	93.842	106.279
540.000	96.076	107.223
560.000	94.663	108.166
580.000	92.105	109.110
600.000	91.212	110.054
620.000	91.066	110.998
640.000	91.218	111.941
660.000	91.091	112.885
680.000	90.788	113.829
700.000	91.618	114.773
720.000	91.797	115.716
740.000	95.835	116.660
760.000	98.414	117.604
780.000	101.904	118.547
800.000	105.114	119.491
820.000	109.733	120.435
840.000	107.684	121.379
860.000	109.417	122.323
880.000	109.995	123.425
900.000	113.548	124.621
920.000	114.876	125.821
940.000	116.669	127.021
960.000	122.672	128.221
980.000	123.991	129.421
1000.000	125.260	130.621
1020.000	130.857	131.821
1040.000	134.361	133.021
1060.000	136.113	134.221
1080.000	135.894	135.421
1100.000	136.617	136.621
1120.000	139.663	137.821
1140.000	143.059	139.021
1160.000	144.710	140.221
1180.000	146.317	141.421
1200.000	148.770	142.621
1220.000	146.855	143.821
1240.000	150.178	145.021
1260.000	150.920	146.177
1280.000	153.535	147.261
1300.000	154.877	148.272
1320.000	154.261	149.211
1340.000	154.983	150.077
1360.000	153.764	150.917
1380.000	157.321	151.757
1400.000	159.743	152.597
1420.000	159.837	153.437
1440.000	159.248	154.277
1460.000	154.395	155.117
1480.000	157.957	155.957
1500.000	158.454	156.797

- NOTES:**
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- KEY - PLAN:**
- PROPOSED CARRIAGEWAY
 - PROPOSED VERGE
 - PROPOSED FOOTWAY
 - PROPOSED EARTHWORK EMBANKMENT
 - PROPOSED EARTHWORK CUTTING
 - ♦ / □ 2022 PRELIMINARY GROUND INVESTIGATION LOCATIONS
 - ♦ / □ HISTORICAL GROUND INVESTIGATION LOCATIONS
 - HISTORICAL PROBE HOLE LOCATIONS



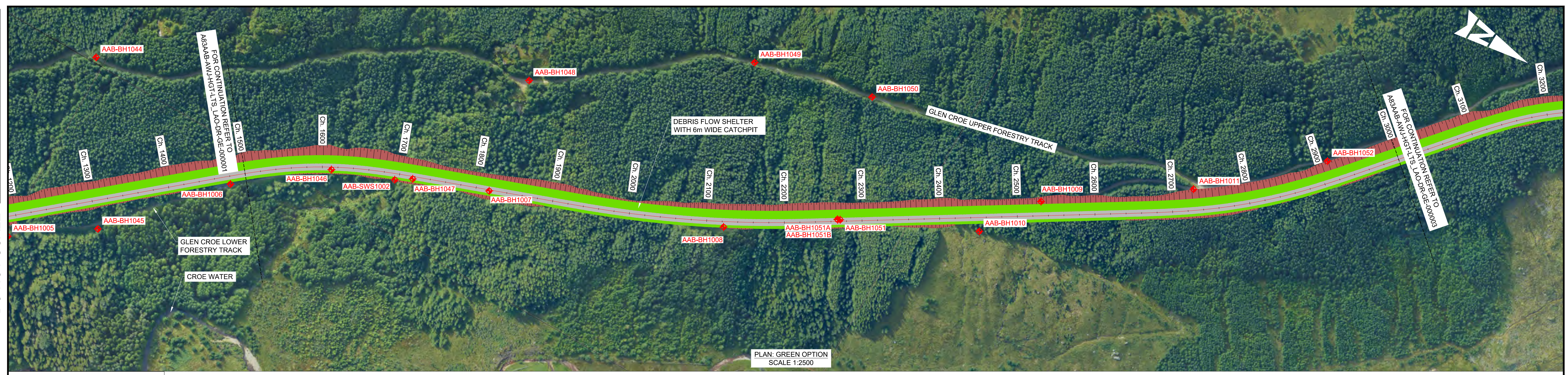
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
First Issue	S3	P01	SP	GM	HR	---	12/05/23
Stage 2 Issue	S4	P02	ME	GM	HR	RHG	26/05/23

ATKINS **wsp**
Member of the SNC-Lavalin Group

TRANSPORT SCOTLAND
COMHDAIL ALBA

Project Stage / Design File	DMRB Stage 2	State	Preliminary
Project Title	A83 AAB		
Drawing Title	GREEN OPTION EXPLORATORY HOLE PLAN AND PROFILE		
Drawing Number	A83AAB - AWJ - HGT - LTS_LA0	Originator	Volume
Project	- DR-GE-000001		
Location		Type	Role
Original Size: A1	Scale: AS SHOWN	Project Ref. No.: 6204594	Sheet: 1 of 3
			Rev: P02

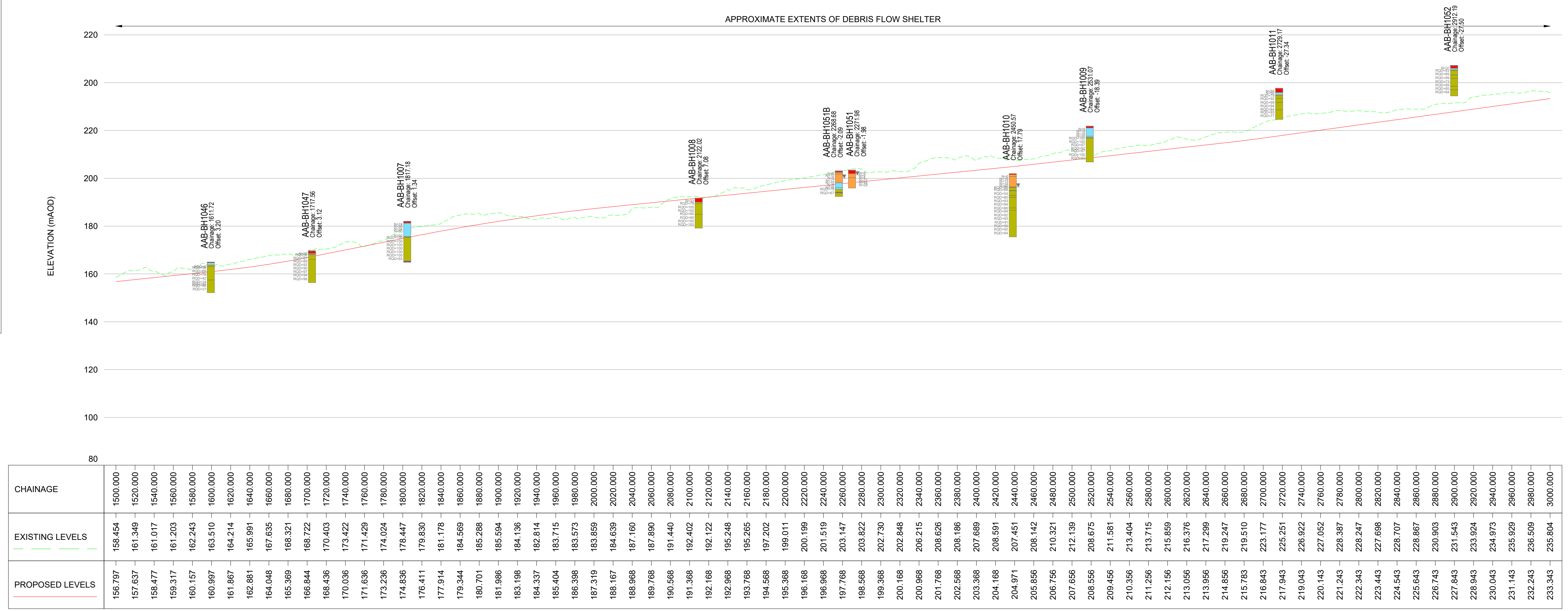
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PLAN: GREEN OPTION
SCALE 1:2500

KEY - PROFILE:

- PROPOSED DESIGN PROFILE
- EXISTING GROUND PROFILE
- TOP SOIL
- MADE GROUND
- PEAT
- ALLUVIUM
- COLLUVIUM
- GLACIAL TILL
- WEATHERED ROCK
- METAMORPHIC ROCK
- IGNEOUS ROCK
- UNDEFINED ROCK
- WATER STRIKE RISE
- WATER STRIKE
- SPT 'N' VALUE
- ROCK QUALITY DESIGNATION



PROFILE: GREEN OPTION
SCALE: H 1:2500, V 1:1000

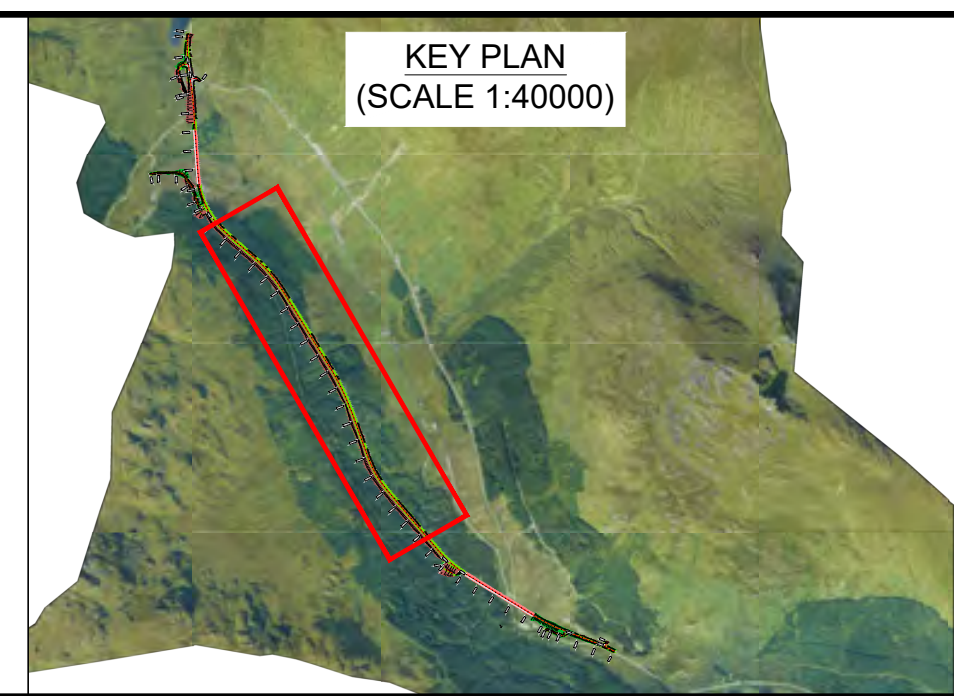
CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS
1500.000	158.454	156.797
1520.000	161.349	157.637
1540.000	161.017	158.477
1560.000	161.203	159.317
1580.000	162.243	160.157
1600.000	163.510	160.997
1620.000	164.214	161.867
1640.000	165.991	162.881
1660.000	167.635	164.048
1680.000	168.321	165.369
1700.000	168.722	166.844
1720.000	170.403	168.436
1740.000	173.422	170.036
1760.000	171.429	171.636
1780.000	174.024	173.236
1800.000	178.447	174.836
1820.000	179.830	176.411
1840.000	181.178	177.914
1860.000	184.569	179.344
1880.000	185.288	180.701
1900.000	185.594	181.986
1920.000	184.136	183.198
1940.000	182.814	184.337
1960.000	183.715	185.404
1980.000	183.573	186.398
2000.000	183.859	187.319
2020.000	184.639	188.167
2040.000	187.160	188.968
2060.000	187.890	189.768
2080.000	191.440	190.568
2100.000	192.402	191.368
2120.000	192.122	192.168
2140.000	195.248	192.968
2160.000	195.265	193.768
2180.000	197.202	194.568
2200.000	199.011	195.368
2220.000	200.199	196.168
2240.000	201.519	196.968
2260.000	203.147	197.768
2280.000	203.822	198.568
2300.000	202.730	199.368
2320.000	202.848	200.168
2340.000	206.215	200.968
2360.000	208.626	201.768
2380.000	208.166	202.568
2400.000	207.689	203.368
2420.000	208.591	204.168
2440.000	207.451	204.971
2460.000	208.142	205.856
2480.000	210.321	206.756
2500.000	212.139	207.656
2520.000	208.675	208.556
2540.000	211.581	209.456
2560.000	213.404	210.356
2580.000	213.715	211.256
2600.000	215.559	212.156
2620.000	216.376	213.056
2640.000	217.298	213.956
2660.000	219.247	214.856
2680.000	219.510	215.763
2700.000	223.177	216.843
2720.000	225.251	217.943
2740.000	226.922	219.043
2760.000	227.652	220.143
2780.000	228.387	221.243
2800.000	228.247	222.343
2820.000	227.698	223.443
2840.000	228.707	224.543
2860.000	228.867	225.643
2880.000	230.903	226.743
2900.000	231.543	227.843
2920.000	233.924	228.943
2940.000	234.973	230.043
2960.000	235.929	231.143
2980.000	236.509	232.243
3000.000	235.804	233.343

NOTES:

- ALL DIMENSIONS SHOWN ARE IN METRES UNLESS STATED OTHERWISE.
- ALL DESIGNS ARE PRELIMINARY AND HAVE BEEN DEVELOPED FOR COMPARATIVE ASSESSMENT AT DMRB STAGE 2 ONLY.

KEY - PLAN:

- PROPOSED CARRIAGEWAY
- PROPOSED VERGE
- PROPOSED FOOTWAY
- PROPOSED EARTHWORK EMBANKMENT
- PROPOSED EARTHWORK CUTTING
- ◆ 2022 PRELIMINARY GROUND INVESTIGATION LOCATIONS
- ◆ HISTORICAL GROUND INVESTIGATION LOCATIONS
- ◆ HISTORICAL PROBE HOLE LOCATIONS



Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
DESCRIPTION	S4	PO1	ME	GM	HR	RHG	26/05/23

ATKINS **wsp**
Member of the SNC-Lavalin Group

TRANSPORT SCOTLAND
COMHDAIL ALBA

Project Stage / Design File: DMRB Stage 2		State: Preliminary	
Client: A83 AAB		Project Title: A83 AAB	
Drawing Number: A83AAB - AWJ - HGT - LTS_LA0		Drawing Title: GREEN OPTION EXPLORATORY HOLE PLAN AND PROFILE	
Originator: AWJ	Volume: LTS_LA0	Project Ref. No.: 6204594	Sheet: 2 of 3
Scale: AS SHOWN	Role: ME	Number: DR-GE-000002	Rev: P02

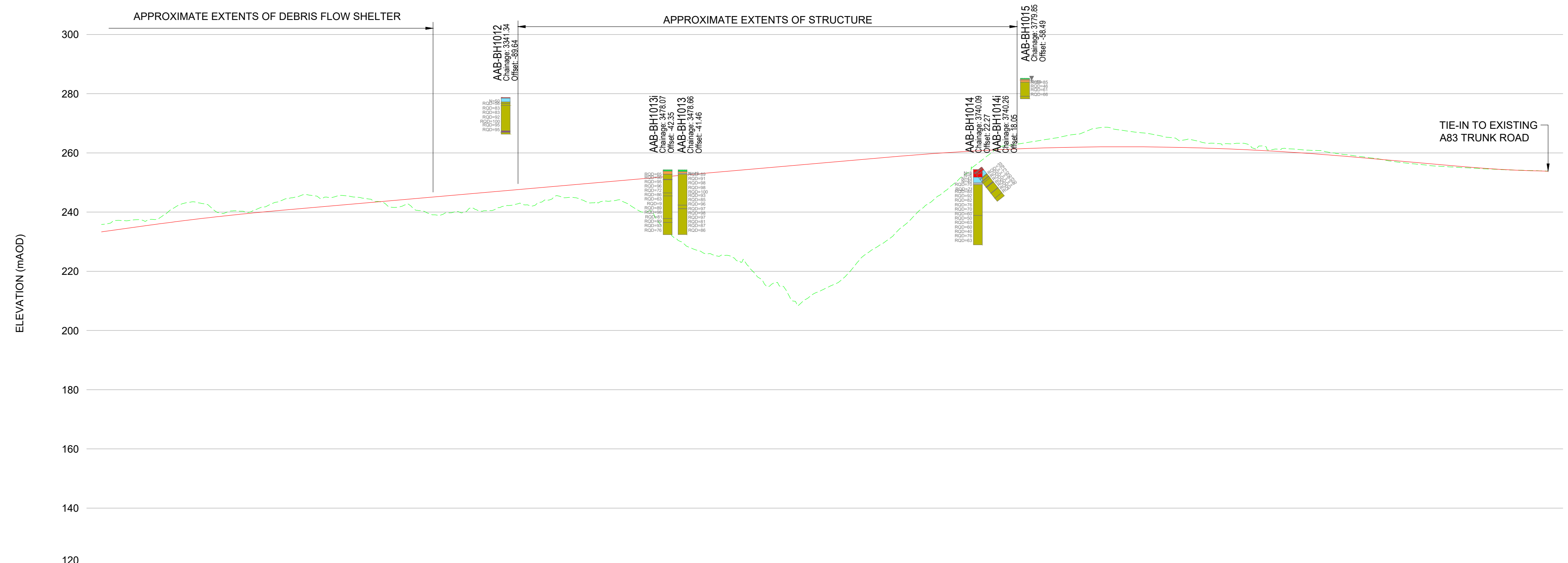
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Millimetres



PLAN: GREEN OPTION
SCALE 1:2500

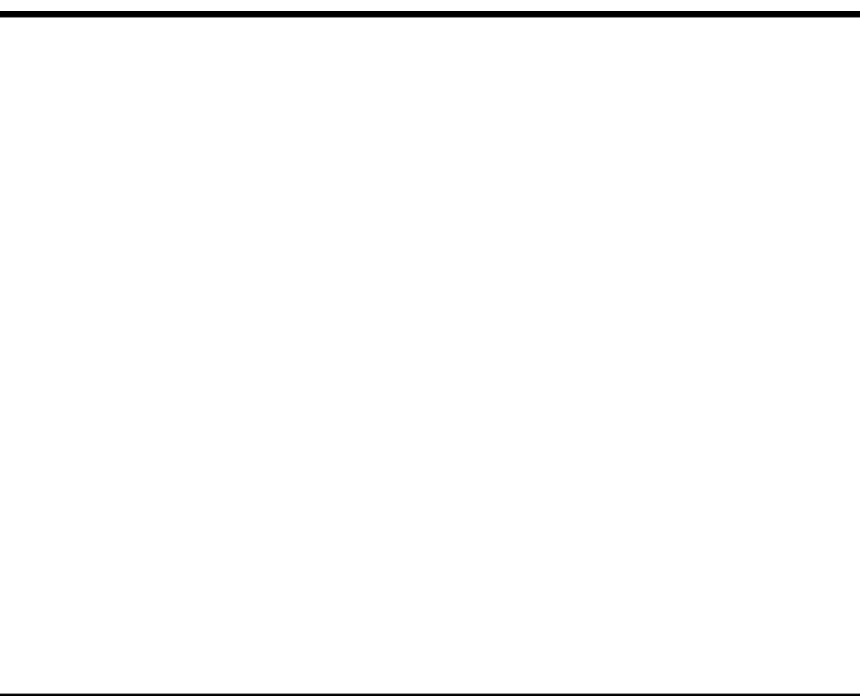
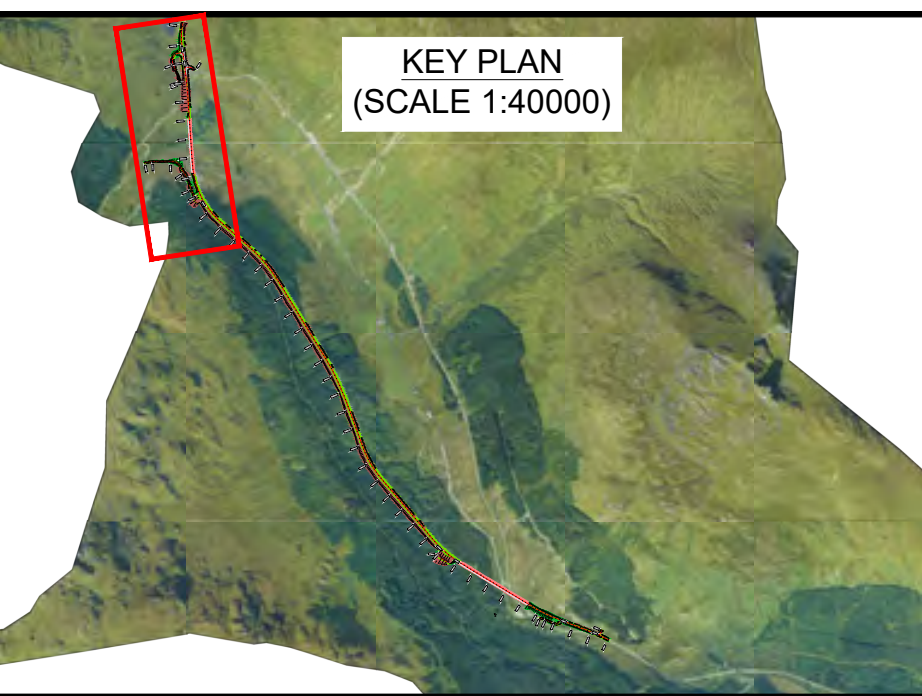
- KEY - PROFILE:**
- PROPOSED DESIGN PROFILE
 - EXISTING GROUND PROFILE
 - TOP SOIL
 - MADE GROUND
 - PEAT
 - ALLUVIUM
 - COLLUVIUM
 - GLACIAL TILL
 - WEATHERED ROCK
 - METAMORPHIC ROCK
 - IGNEOUS ROCK
 - UNDEFINED ROCK
 - WATER STRIKE RISE
 - WATER STRIKE
 - SPT 'N' VALUE
 - ROCK QUALITY DESIGNATION



CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS
3000.000	235.804	233.343
3020.000	237.092	234.443
3040.000	237.415	236.543
3060.000	241.110	238.613
3080.000	243.313	237.610
3100.000	239.735	238.535
3120.000	240.245	239.386
3140.000	242.066	240.166
3160.000	244.787	240.878
3180.000	245.503	241.578
3200.000	245.581	242.278
3220.000	244.767	242.978
3240.000	242.725	243.678
3260.000	242.458	244.378
3280.000	239.066	245.078
3300.000	240.245	245.778
3320.000	240.425	246.478
3340.000	242.014	247.178
3360.000	242.402	247.878
3380.000	244.381	248.578
3400.000	244.870	249.278
3420.000	243.197	249.978
3440.000	243.597	250.678
3460.000	239.950	251.378
3480.000	232.930	252.078
3500.000	227.508	252.778
3520.000	225.171	253.478
3540.000	223.004	254.178
3560.000	215.622	254.878
3580.000	212.183	255.578
3600.000	212.028	256.278
3620.000	215.822	256.978
3640.000	223.789	257.678
3660.000	229.476	258.378
3680.000	236.231	259.078
3700.000	243.277	259.778
3720.000	249.650	260.478
3740.000	256.508	261.178
3760.000	262.182	261.878
3780.000	263.392	262.578
3800.000	264.683	263.278
3820.000	266.159	263.978
3840.000	266.330	264.678
3860.000	267.746	265.378
3880.000	266.733	266.078
3900.000	265.284	266.778
3920.000	264.503	267.478
3940.000	263.270	268.178
3960.000	263.267	268.878
3980.000	262.355	269.578
4000.000	261.500	270.278
4020.000	260.893	270.978
4040.000	260.011	271.678
4060.000	258.925	272.378
4080.000	257.851	273.078
4100.000	256.643	273.778
4120.000	255.801	274.478
4140.000	255.260	275.178
4160.000	254.832	275.878
4180.000	254.414	276.578
4200.000	254.128	277.278
4220.000	253.871	277.978
4221.544	253.850	278.000

PROFILE: GREEN OPTION
SCALE: H 1:2500, V 1:1000

- NOTES:**
- ALL DIMENSIONS SHOWN ARE IN METRES UNLESS STATED OTHERWISE.
 - ALL DESIGNS ARE PRELIMINARY AND HAVE BEEN DEVELOPED FOR COMPARATIVE ASSESSMENT AT DMRB STAGE 2 ONLY.
- KEY - PLAN:**
- PROPOSED CARRIAGEWAY
 - PROPOSED VERGE
 - PROPOSED FOOTWAY
 - PROPOSED EARTHWORK EMBANKMENT
 - PROPOSED EARTHWORK CUTTING
 - ◆ 2022 PRELIMINARY GROUND INVESTIGATION LOCATIONS
 - ◆ HISTORICAL GROUND INVESTIGATION LOCATIONS
 - ◆ HISTORICAL PROBE HOLE LOCATIONS



Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
	S4						26/05/23

ATKINS **wsp**
Member of the SNC-Lavalin Group

TRANSPORT SCOTLAND
COMHDAIL ALBA

Project Stage / Design File	DMRB Stage 2	State	Preliminary
Project Title	A83 AAB		
Drawing Title	GREEN OPTION EXPLORATORY HOLE PLAN AND PROFILE		
Drawing Number	A83AAB - AWJ - HGT - LTS_LA0	Originator	DR-GE-000003
Location		Type	
Original Size	A1	Scale	AS SHOWN
Project Ref. No.	6204594	Sheet	3 of 3
Rev.	P01		

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Purple Option

[A83AAB-AWJ-HGT-LTS_LD1-DR-GE-000001_P01.pdf](#) – Exploratory Hole Plan and Profile
– Sheet 1 of 3

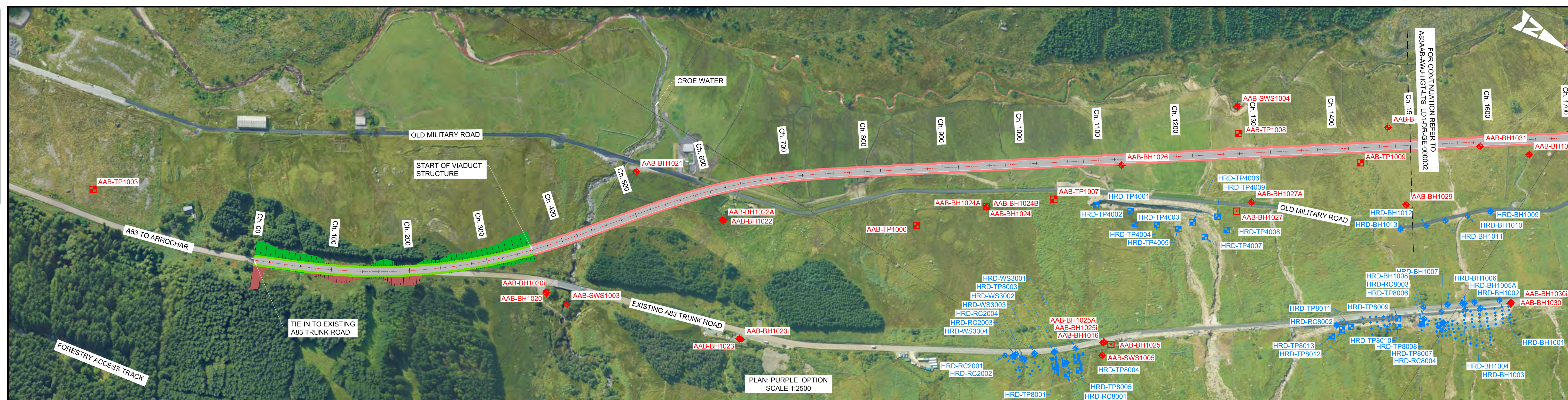
[A83AAB-AWJ-HGT-LTS_LD1-DR-GE-000002_P01.pdf](#) – Exploratory Hole Plan and Profile
– Sheet 2 of 3

[A83AAB-AWJ-HGT-LTS_LD1-DR-GE-000003_P01.pdf](#) – Exploratory Hole Plan and Profile
– Sheet 3 of 3

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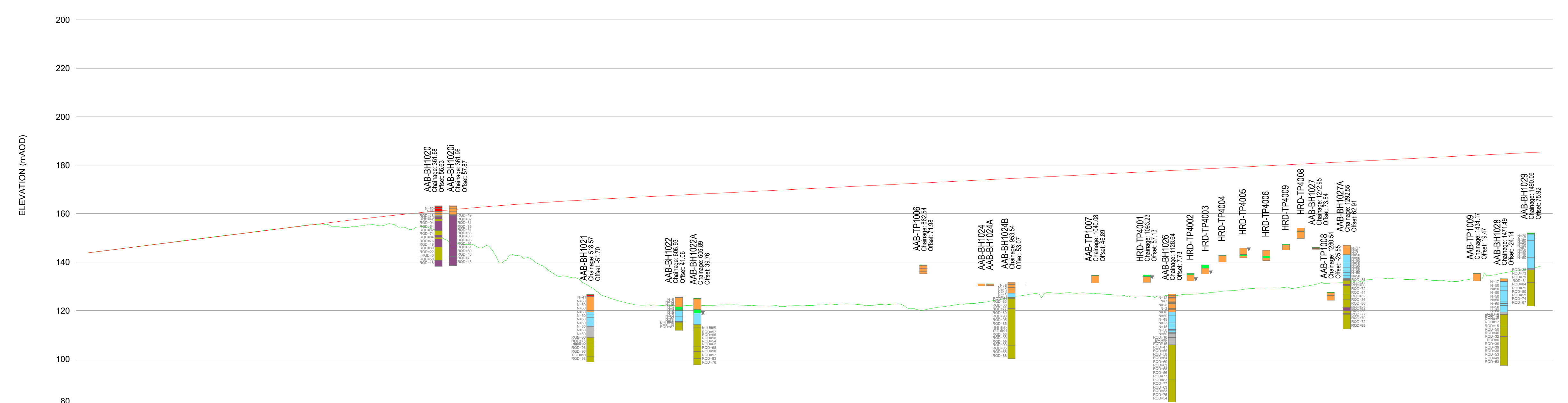
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PLAN: PURPLE OPTION
SCALE 1:2500

KEY - PROFILE:

- PROPOSED DESIGN PROFILE
- EXISTING GROUND PROFILE
- █ TOP SOIL
- █ MADE GROUND
- █ PEAT
- █ ALLUVIUM
- █ COLLUVIUM
- █ GLACIAL TILL
- █ WEATHERED ROCK
- █ METAMORPHIC ROCK
- █ IGNEOUS ROCK
- █ UNDEFINED ROCK
- █ WATER STRIKE RISE
- █ WATER STRIKE
- █ SPT 'N' VALUE
- █ ROCK QUALITY DESIGNATION

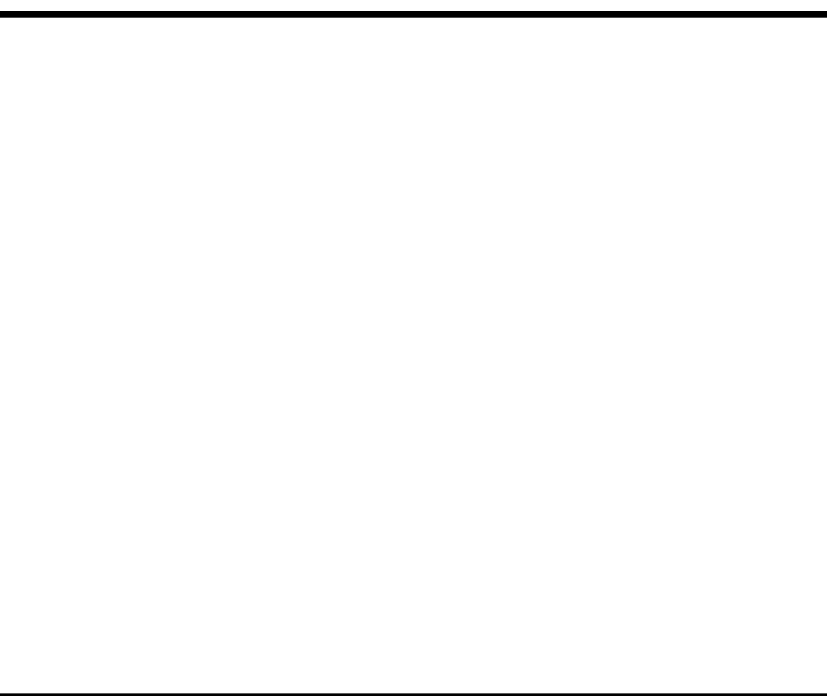
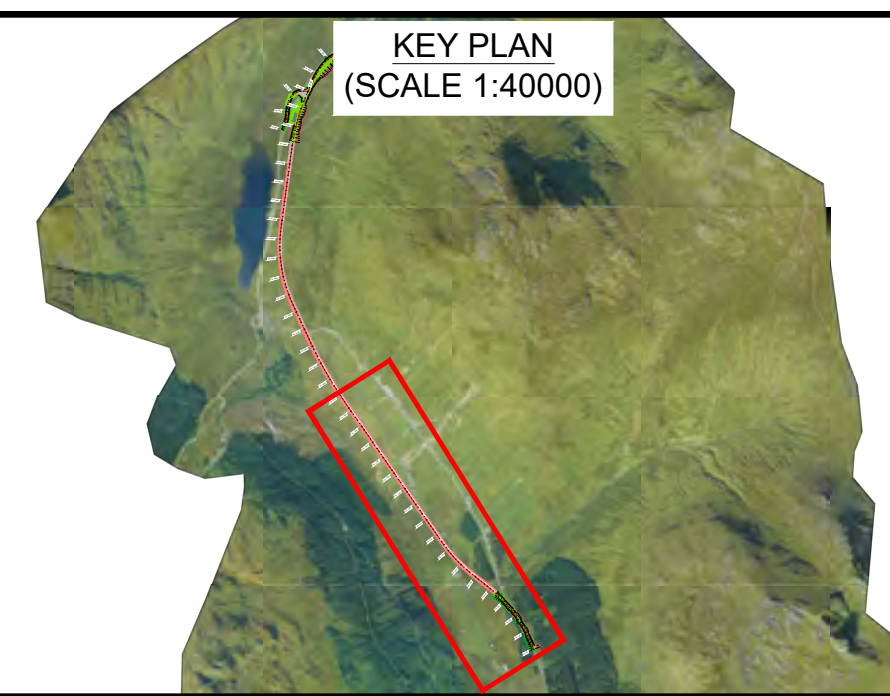


CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS
0+00	143.830	143.830
20+00	144.827	144.830
40+00	145.853	145.830
60+00	146.875	146.830
80+00	147.860	147.830
100+00	148.950	148.830
120+00	149.943	149.830
140+00	150.934	150.830
160+00	151.865	151.830
180+00	152.941	152.830
200+00	153.894	153.830
220+00	154.931	154.830
240+00	155.354	155.825
260+00	156.802	156.802
280+00	157.734	157.734
300+00	158.627	158.627
320+00	159.479	159.479
340+00	160.292	160.292
360+00	161.064	161.064
380+00	161.797	161.797
400+00	162.489	162.489
420+00	163.142	163.142
440+00	163.754	163.754
460+00	164.327	164.327
480+00	164.859	164.859
500+00	165.352	165.352
520+00	165.804	165.804
540+00	166.217	166.217
560+00	166.617	166.617
580+00	167.017	167.017
600+00	167.417	167.417
620+00	167.817	167.817
640+00	168.217	168.217
660+00	168.617	168.617
680+00	169.017	169.017
700+00	169.417	169.417
720+00	169.817	169.817
740+00	170.217	170.217
760+00	170.617	170.617
780+00	171.017	171.017
800+00	171.417	171.417
820+00	171.817	171.817
840+00	172.217	172.217
860+00	172.617	172.617
880+00	173.017	173.017
900+00	173.417	173.417
920+00	173.817	173.817
940+00	174.217	174.217
960+00	174.617	174.617
980+00	175.017	175.017
1000+00	175.417	175.417
1020+00	175.817	175.817
1040+00	176.217	176.217
1060+00	176.617	176.617
1080+00	177.017	177.017
1100+00	177.417	177.417
1120+00	177.817	177.817
1140+00	178.217	178.217
1160+00	178.617	178.617
1180+00	179.017	179.017
1200+00	179.417	179.417
1220+00	179.817	179.817
1240+00	180.217	180.217
1260+00	180.617	180.617
1280+00	181.017	181.017
1300+00	181.417	181.417
1320+00	181.817	181.817
1340+00	182.217	182.217
1360+00	182.617	182.617
1380+00	183.017	183.017
1400+00	183.417	183.417
1420+00	183.817	183.817
1440+00	184.217	184.217
1460+00	184.617	184.617
1480+00	185.017	185.017
1500+00	185.417	185.417

PROFILE: PURPLE OPTION
SCALE: H 1:2500, V 1:1000

NOTES:
1. ALL DIMENSIONS SHOWN ARE IN METRES UNLESS STATED OTHERWISE.
2. ALL DESIGNS ARE PRELIMINARY AND HAVE BEEN DEVELOPED FOR COMPARATIVE ASSESSMENT AT DMRB STAGE 2 ONLY.

KEY - PLAN:
█ PROPOSED CARRIAGEWAY
█ PROPOSED VERGE
█ PROPOSED FOOTWAY
█ PROPOSED EARTHWORK EMBANKMENT
█ PROPOSED EARTHWORK CUTTING
█ 2022 PRELIMINARY GROUND INVESTIGATION LOCATIONS
█ HISTORICAL GROUND INVESTIGATION LOCATIONS
█ HISTORICAL PROBE HOLE LOCATIONS



Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Stage 2 Issue	S4	P01	ME	GM	HR	RHG	26/05/23

Status: S4 Drawing Suitability: FOR STAGE APPROVAL

ATKINS **wsp**
Member of the SNC-Lavalin Group

Client: **TRANSPORT SCOTLAND**
COMHDAIL ALBA

Project Stage / Design File: DMRB Stage 2 / State: Preliminary

Project Title: A83 AAB

Drawing Title: PURPLE OPTION EXPLORATORY HOLE PLAN AND PROFILE

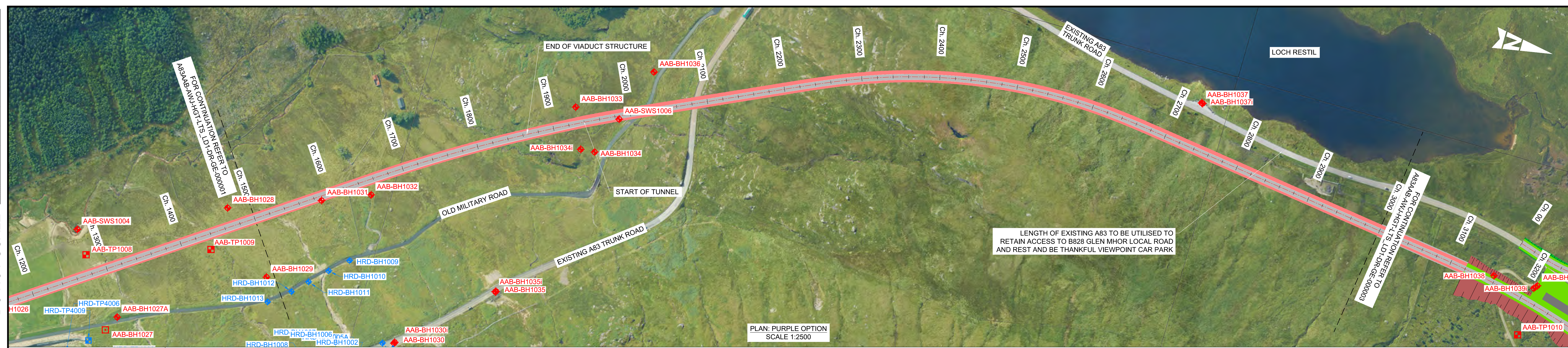
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Originator: Volume: Project: A83AAB - AWJ - HGT - LTS_LD1 - DR-GE-00001

Location: Type: Role: Number: Original Size: A1 Scale: AS SHOWN Project Ref. No.: 5204594 Sheet: 1 of 3 Rev: P01

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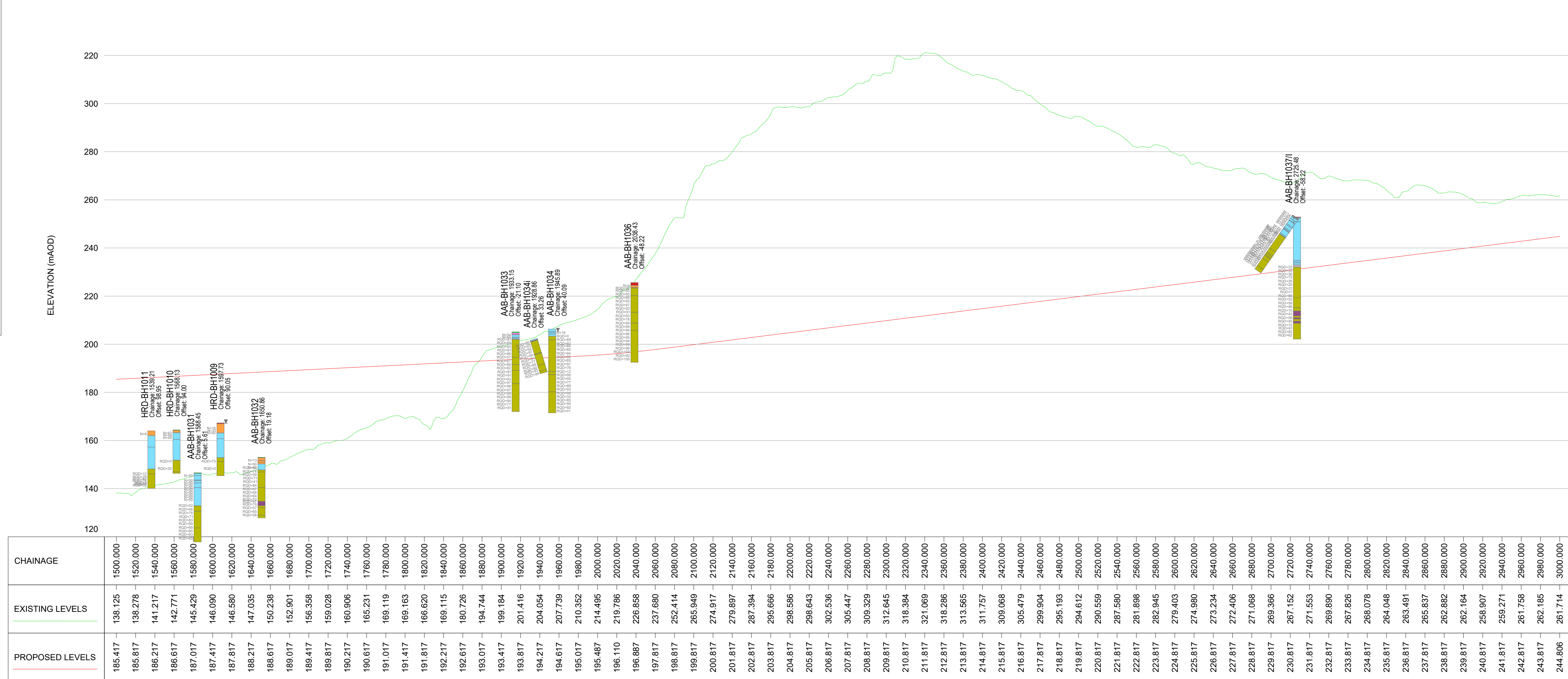
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Millimetres



PLAN: PURPLE OPTION
SCALE 1:2500

KEY - PROFILE:

- PROPOSED DESIGN PROFILE
- EXISTING GROUND PROFILE
- TOP SOIL
- MADE GROUND
- PEAT
- ALLUVIUM
- COLLUVIUM
- GLACIAL TILL
- WEATHERED ROCK
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- IGNEOUS ROCK
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- WATER STRIKE RISE
- WATER STRIKE
- SPT 'N' VALUE
- ROCK QUALITY DESIGNATION



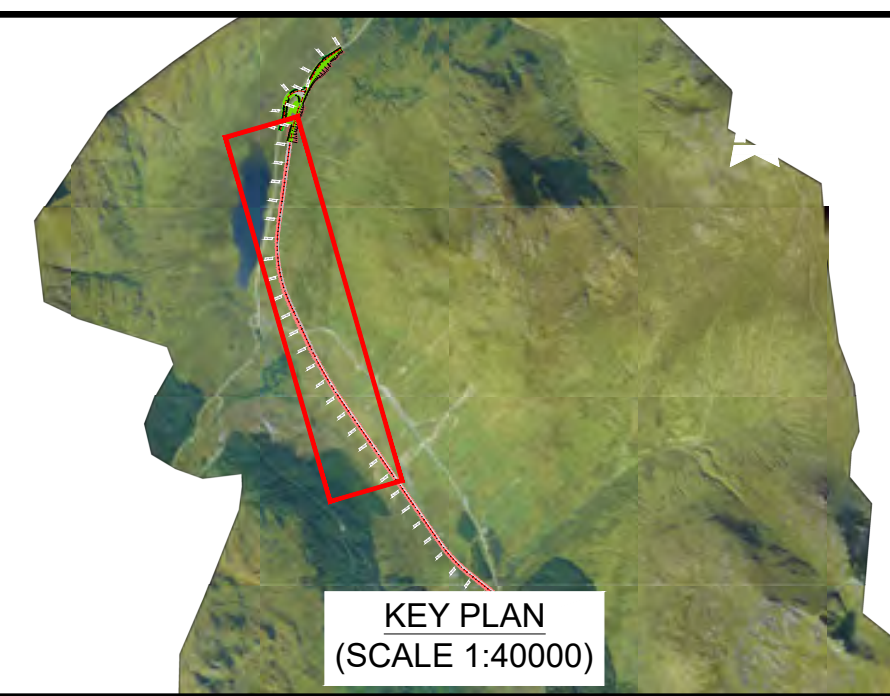
PROFILE: PURPLE OPTION
SCALE: H 1:2500, V 1:1000

NOTES:

- ALL DIMENSIONS SHOWN ARE IN METRES UNLESS STATED OTHERWISE.
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KEY - PLAN:

- PROPOSED CARRIAGEWAY
- PROPOSED VERGE
- PROPOSED FOOTWAY
- PROPOSED EARTHWORK EMBANKMENT
- PROPOSED EARTHWORK CUTTING
- ♦ 2022 PRELIMINARY GROUND INVESTIGATION LOCATIONS
- ♦ HISTORICAL GROUND INVESTIGATION LOCATIONS
- HISTORICAL PROBE HOLE LOCATIONS



Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
FOR STAGE APPROVAL	S4		ME	GM	HR	RHG	26/05/23

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
FOR STAGE APPROVAL	S4		ME	GM	HR	RHG	26/05/23

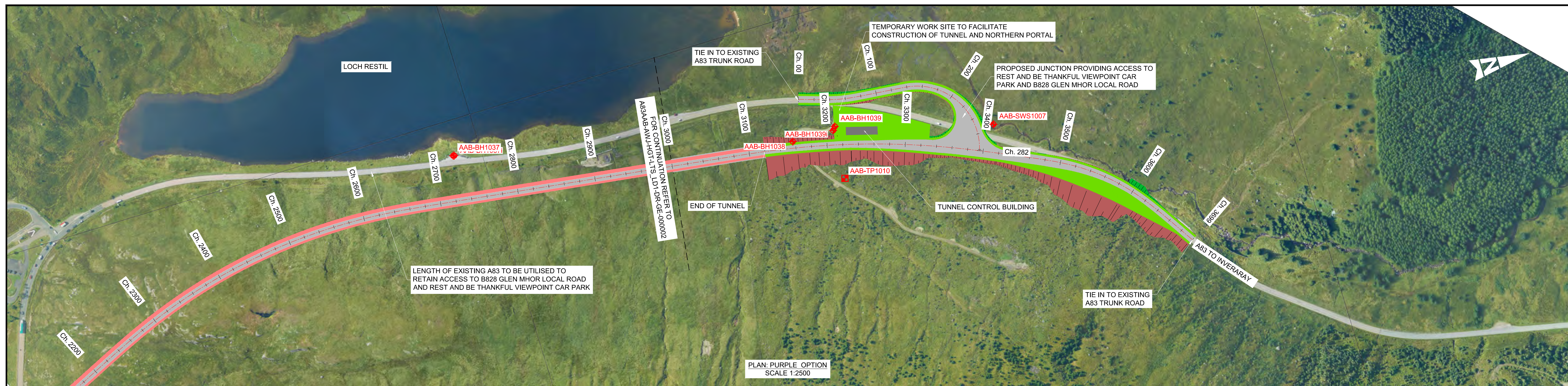
ATKINS **wsp**
Member of the SNC-Lavalin Group

TRANSPORT SCOTLAND
COMHDAIL ALBA

Project Stage / Design File	DMRB Stage 2	State	Preliminary
Project Title	A83 AAB		
Drawing Title	PURPLE OPTION EXPLORATORY HOLE PLAN AND PROFILE		
Drawing Number	A83AAB - AWJ - HGT - LTS_LD1 - DR-GE-000002	Originator	Volume
Project		Type	Number
Location		Role	Number
Original Size: A1	Scale: AS SHOWN	Project Ref. No: 5204594	Sheet: 2 of 3 Rev: P01

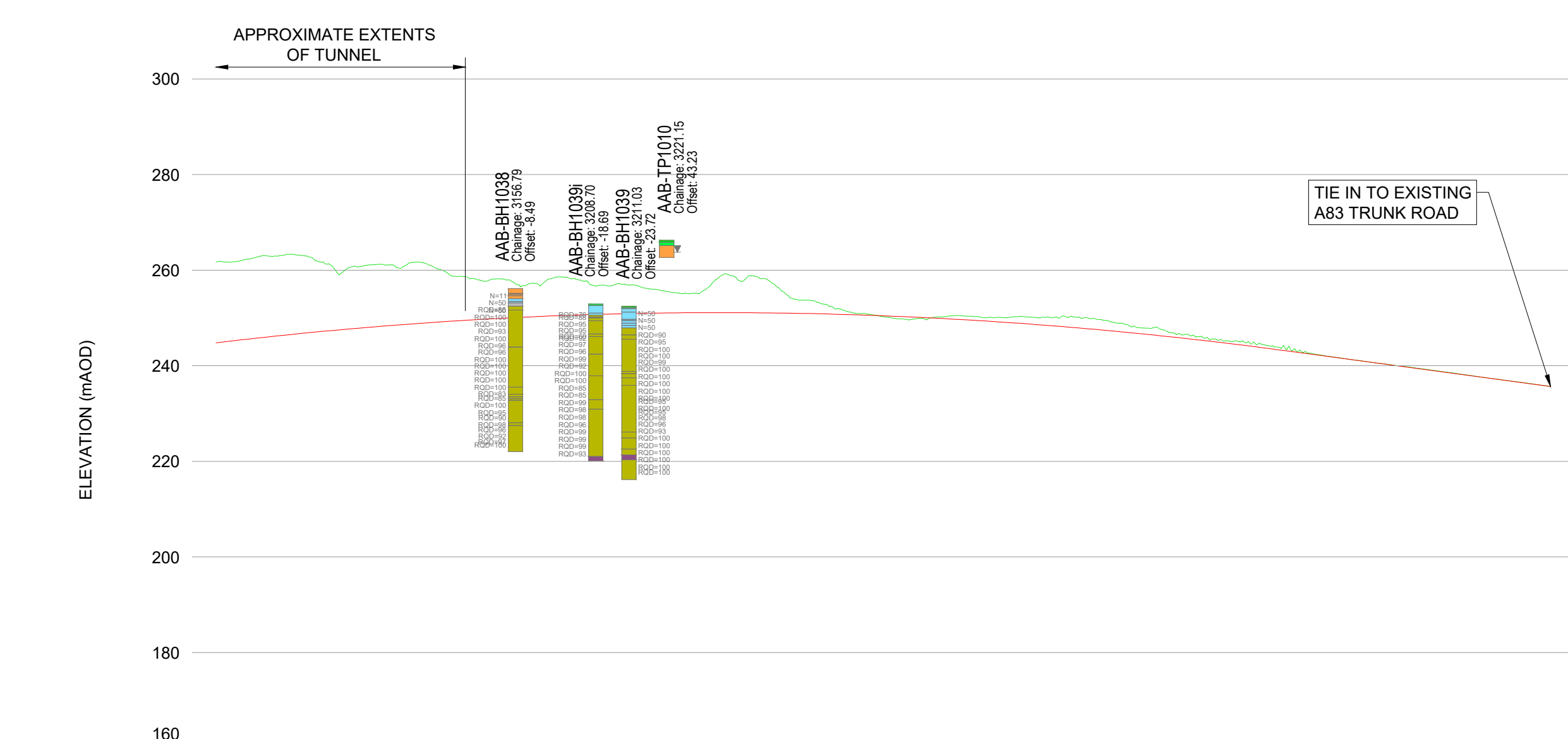
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Millimetres



KEY - PROFILE:

- PROPOSED DESIGN PROFILE
- EXISTING GROUND PROFILE
- TOP SOIL
- MADE GROUND
- PEAT
- ALLUVIUM
- COLLUVIUM
- GLACIAL TILL
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- UNDEFINED ROCK
- WATER STRIKE RISE
- WATER STRIKE
- SPT N' VALUE
- ROCK QUALITY DESIGNATION



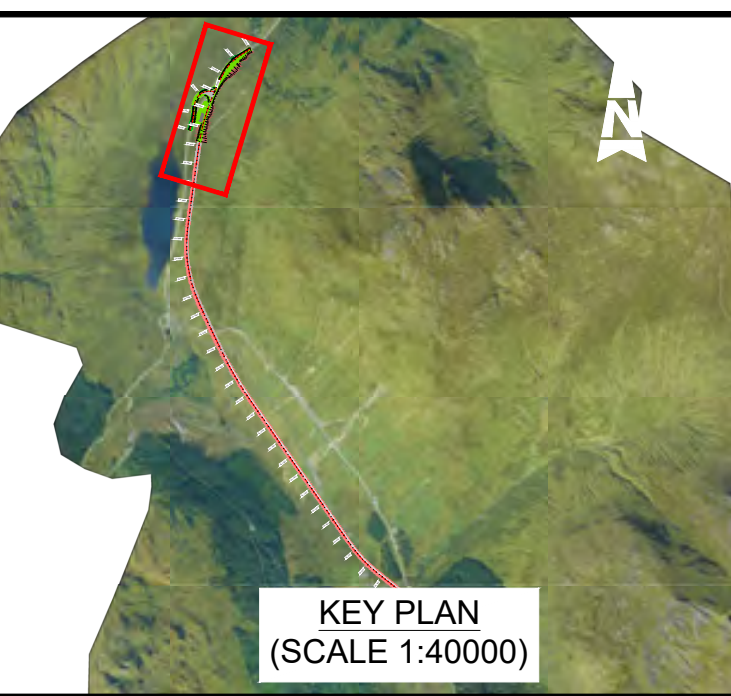
CHAINAGE	EXISTING LEVELS	PROPOSED LEVELS
3000.000	261.714	244.806
3020.000	262.577	245.728
3040.000	263.370	246.577
3060.000	261.051	247.354
3080.000	261.098	248.058
3100.000	261.159	248.690
3120.000	259.697	249.248
3140.000	257.650	249.734
3160.000	256.660	250.147
3180.000	258.612	250.488
3200.000	256.789	250.755
3220.000	256.815	250.950
3240.000	255.308	251.073
3260.000	257.459	251.122
3280.000	258.845	251.099
3300.000	254.429	251.003
3320.000	252.708	250.834
3340.000	250.916	250.593
3360.000	249.772	250.279
3380.000	250.226	249.892
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3420.000	250.280	248.900
3440.000	250.183	248.295
3460.000	249.856	247.617
3480.000	248.244	246.867
3500.000	246.901	246.044
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3560.000	243.456	243.138
3580.000	242.145	242.058
3600.000	241.001	240.078
3620.000	239.952	239.899
3640.000	238.887	238.818
3660.000	237.782	237.738
3680.000	236.681	236.658
3698.653	235.655	235.655

NOTES:

- ALL DIMENSIONS SHOWN ARE IN METRES UNLESS STATED OTHERWISE.
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KEY - PLAN:

- PROPOSED CARRIAGEWAY
- PROPOSED VERGE
- PROPOSED FOOTWAY
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- PROPOSED EARTHWORK CUTTING
- ♦ 2022 PRELIMINARY GROUND INVESTIGATION LOCATIONS
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- ♦ HISTORICAL PROBE HOLE LOCATIONS



Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
	S4	P01	ME	GM	HR	RHG	26/05/23

Status: S4 FOR STAGE APPROVAL

ATKINS wsp
Member of the SNC-Lavalin Group

TRANSPORT SCOTLAND
COMHDAIL ALBA

Project Stage / Design File	DMRB Stage 2	State	Preliminary
Project Title	A83 AAB		
Drawing Title	PURPLE OPTION EXPLORATORY HOLE PLAN AND PROFILE		
Drawing Number	A83AAB - AWJ - HGT - LTS_LD1	Originator	- DR-GE-000003
Location		Type	
Original Size	A1	Scale	AS SHOWN
Project Ref. No.	6204594	Sheet	3 of 3
Rev.	P01		

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Pink Option

[A83AAB-AWJ-HGT-LTS_LEA-DR-GE-000001_P01.pdf](#) – Exploratory Hole Plan and Profile
– Sheet 1 of 3

[A83AAB-AWJ-HGT-LTS_LEA-DR-GE-000002_P01.pdf](#) – Exploratory Hole Plan and Profile
– Sheet 2 of 3

[A83AAB-AWJ-HGT-LTS_LEA-DR-GE-000003_P01.pdf](#) – Exploratory Hole Plan and Profile
– Sheet 3 of 3

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