

### KEY TO GEOLOGICAL SYMBOLS AND COLOURS

#### DRIFT

- Worked ground (sand and gravel)
- Made ground, including reclaimed tidal flats
- Landfill

#### FLANDRIAN

- Sere: accumulation of angular rock fragments
- Head, including Downwash and Solifluction Deposits: mainly diamict interbedded with sand and gravel
- Blown Sand: mainly stabilised dunes of fine to medium sand
- Peat: mainly a blanket accumulation of wet, acidic, partially decomposed vegetation
- Alluvium: deposits of present river floodplains (mainly gravel) and enclosed basins (mainly sand, silt and clay)
- Alluvial Fan Deposits: clayey sand and gravel
- River Terrace Deposits: dissected remnants of former river floodplains, mainly sand and gravel
- Present Shoreface and Beach Deposits: medium sand and well-rounded gravel
- Present Tidal Flat Deposits: silt, clay and organic mud, locally strewn with boulders
- Present Saltmarsh Deposits: silt, clay and peat
- Beach ridges formed of well-rounded shingle
- Raised Shoreface and Beach Deposits: medium sand and well-rounded shingle
- Raised Brackish Lagoon Deposits: silt and clay with lenses of gravel

#### LATE DEVONIAN

- Raised Shoreface and Beach Deposits: mainly medium sand and well-rounded shingle
- Raised Tidal Flat Deposits: fine sand, silt and clay with lenses of gravel
- Raised Marine Fan-Delta Deposits: sand and gravel
- Raised Glaciomarine Deposits: Alturle Gravels Formation: mainly cross-bedded sand and well-rounded gravel capped locally by marine-washed shingle
- Raised Glaciomarine Deposits: Ardaraier Silts Formation: mainly silt diamict with lenses of gravel and clay, capped by rhythmically bedded silt and fine sand; locally contorted glaciotechnically
- Glaciofluvial Sheet Deposits: mainly terraced spreads of gravel with lenses of sand
- Glaciofluvial Fan and Fan-Delta Deposits: sand and gravel, typically coarsening upwards
- Glaciofluvial Ice-contact Deposits: undulating spreads and mounds of sand and gravel, including flat-topped mounds
- Eskers (steep-sided ridges of gravel)
- Glaciolacustrine Deposits: very fine sand, silt and clay typically thinly laminated and with dropstones and lenses of diamict
- Hummocky Glacial Deposits: poorly stratified, sandy diamict, sand, gravel, silt and rock debris
- Ridges of till or sandstone rubble, typically about 2m high
- Tills, undifferentiated: stiff, stony, sandy, clayey diamict, typically massive, but stratified and more sandy locally, including lenses of gravel

#### MID DEVONIAN

- Glaciomarine Deposits: Clava Shelly Formation: glacially transported rafts of shelly silt clay, fine sand and shelly diamict (on Drummore of Clava inset map only)

----- Geological boundary, Drift

----- boundary; arrowheads denote uphill side

----- Marked break in slope; arrowheads denote uphill side

----- Backfeature marking abandoned cliffline; Cliffline backing Flandrian deposits are mainly Flandrian (Postglacial) in age, others are of Late Devonian (Late-glacial) age

----- Late Devonian marine limit, conjectural

----- Glacial striae, bar shows orientation, but direction of ice flow not clear

----- Glacial striae, arrow shows direction of ice flow

----- Crag and tail, arrow shows direction of ice flow

----- Roche moutonnée with striae; arrow shows direction of ice flow

----- Glacial meltwater channel, showing inferred direction of flow

----- Margin of large glacial meltwater channel

----- Approximate margin of buried valley or cliff

- Site of the "contorted silt" of Ardaraier
- Type section of the Clava Shelly Clay, a large glacially transported raft
- Site of the interglacial deposits at Dalcharn
- Site of the interstitial deposits at All Odhar, Moy
- Site of "Jamieson's Pit", Kirkton; glaciotechnised shelly clay
- Site of "Kirkton Section", glaciomarine silts

### SEDIMENTARY ROCKS

See Generalized Vertical Section

#### INTRUSIVE IGNEOUS ROCKS

Sheets, dykes and minor intrusions

- F: Felsite
- F<sup>o</sup>: Microgranite
- F<sup>sp</sup>: Quartz-feldspar porphyry
- M: Microdiorite
- L: Lamprophyre
- A: Appinitic diorite
- G: Granitic rocks, undifferentiated
- P: Pegmatite

**Balfreish Microgranite**

**Carn Odhar Granite Cupolas**

**Saddle Hill Granite**

**Auchnahillin Monzonite**

**Findhorn Granite Complex**

**Moy Granite**

**Quilichan Granodiorite Vein Complex**

#### METAMORPHIC ROCKS

Rocks of uncertain status and stratigraphical position

**Central Highland Migmatite Complex**

Mostly migmatitic metasedimentary rocks (not in stratigraphical order)

- Q<sup>s</sup>: Psammite, micaceous psammite and gneissose semipelite
- Q: Psammite and micaceous psammite, locally gneissose
- Q<sup>i</sup>: Psammite with thin quartzite units (mostly less than 1m in thickness), where differentiated
- Q<sup>z</sup>: Quartzitic gneiss
- S: Gneissose semipelite, mostly coarsely migmatitic with ironhyemtic segregations
- Q<sup>s</sup>: Laminated schistose psammite and semipelite

Geological Key relating to Fortrose Sheet 84W

Geological Key relating to Nairn Sheet 84E

### EXPLANATION

#### DRIFT

- Blown sand
- Peat
- Alluvium of floodplains and undifferentiated alluvium
- River terraces (2, 3, 4 etc from low to high)
- Alluvial cone
- Present beach deposits
- Deposits of low (post-Glacial) raised beach
- Deposits of intermediate raised beaches
- Deposits of high (late-Glacial) raised beach
- Fluvio-glacial sand and gravel
- Glacial sand and gravel and morainic gravels
- Moraines and morainic drift
- Boulder clay and undifferentiated drift

#### SOLID SEDIMENTARY ROCKS

- Sandstone
- Sandstone fish bands
- Basal breccia and conglomerate

#### METAMORPHIC ROCKS

- Undifferentiated schists and gneisses
- Siliceous schist and granulite
- Pelitic gneiss and schist

#### IGNEOUS AND VEIN ROCKS

INTRUSIVE Later than the Caledonian folding

- Lamprophyre
- Felsite, quartz-porphyr and granophyre
- Porphyrite
- Diorite
- Granite with local basic modifications

VEIN ROCKS Later than, or coincident with, the Caledonian folding

- Pegmatite

METAMORPHOSED IGNEOUS ROCKS Early Caledonian or pre-Caledonian

- Epidiorite and hornblende-schist (probably original basic sheets and dykes)

#### BEDDING

- Inclined, dip in degrees
- Gently inclined
- Highly inclined
- Vertical, long bar indicates strike
- General dip, where undulating
- Dip with contorted strike
- Vertical with contorted strike
- Inclined, dip in degrees
- Glacial striae: arrow shows direction of ice-flow
- Fossil locality in Clava Shelly Clay

#### FOLIATION

- Geological boundary (drift)
- Geological boundary (solid)
- Geological boundary (solid) where uncertain
- Fault, crossmark on downthrow side
- Fault, where uncertain, crossmark on downthrow side
- Dry valleys and overflow channels: mainly of glacial origin

A	April 2014	DMRB Stage 2 Report	HR	IMM	SJD	EBH
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Project: **A96 DUALLING**  
 INVERNESS TO NAIRN  
 (incl. Malm. bypass)

Drawing title: **DMRB STAGE 2 KEY TO GEOLOGICAL MAP EXTRACTS**

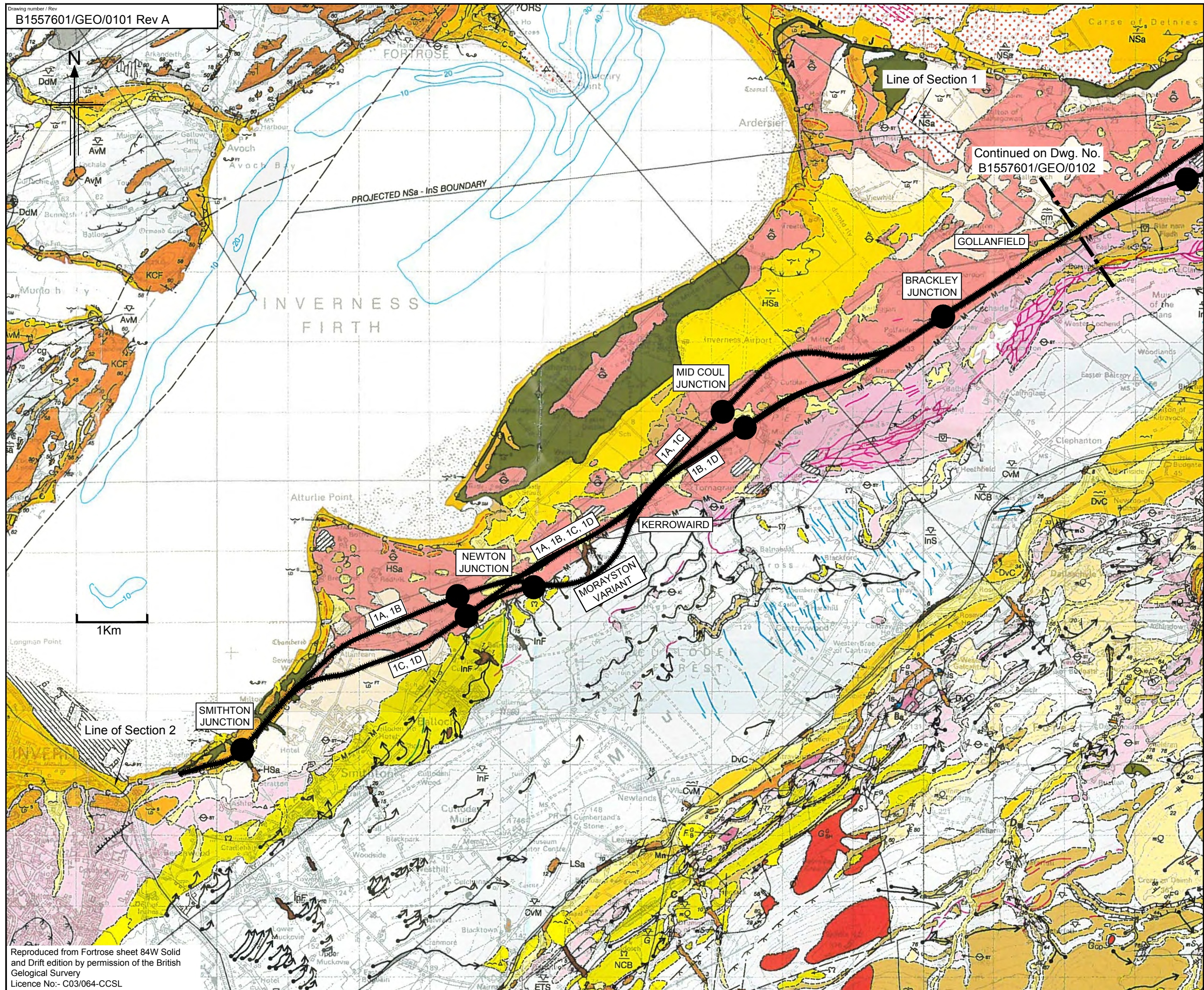
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Jacobs No. B155760

Drawing number: **B1557601/GEO/0100** Rev **A**

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- Notes:-
1. Drawing to be read in conjunction with key drawing B1557601/GEO/0100
  2. Refer to Drawing No. B1557601/GEO/0103 for geological cross sections.

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Project title  
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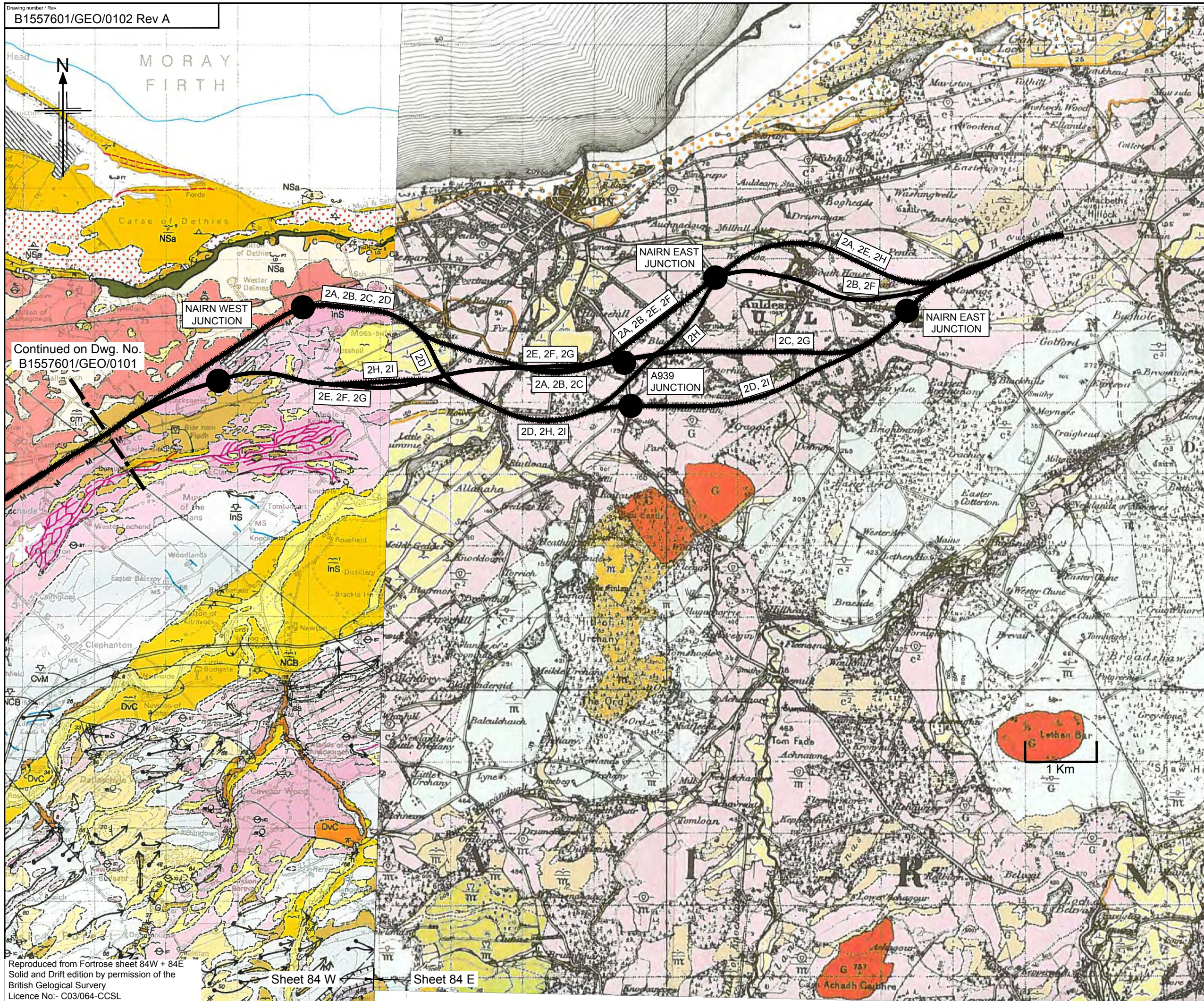
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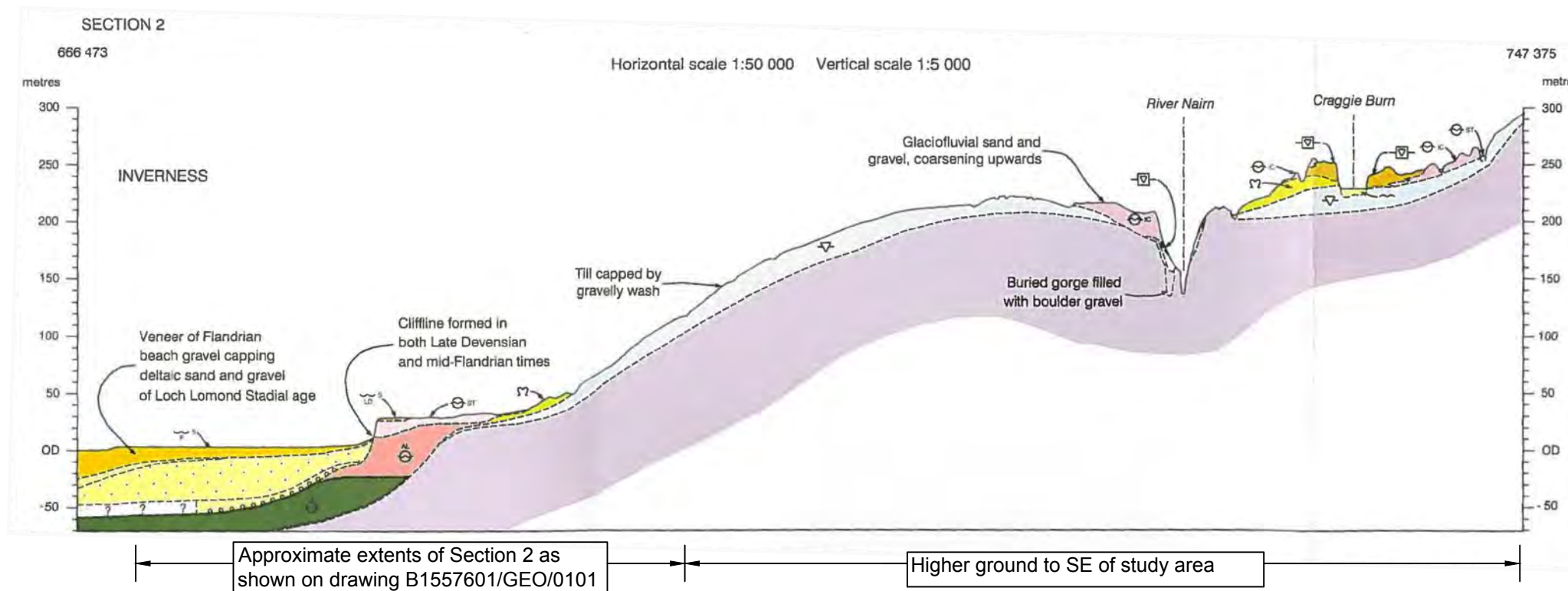
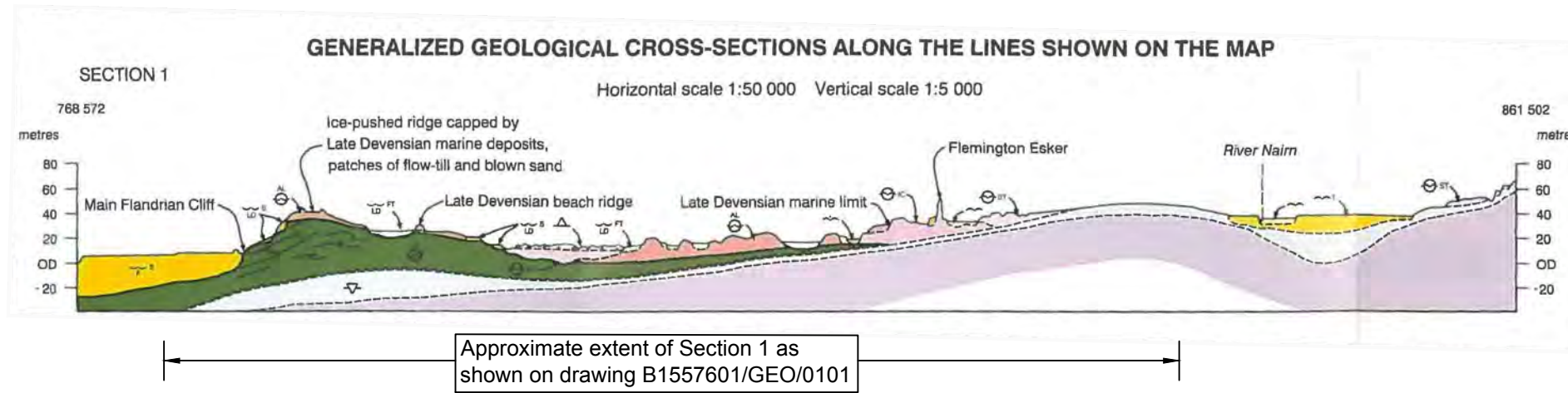


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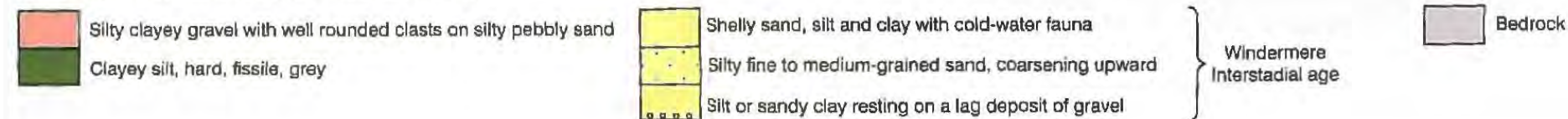
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Notes:  
1. For full geological key please refer to drawing number:- B1557601/GEO/0100



**KEY TO DEPOSITS NOT DEPICTED IN MAIN LEGEND**



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Drawing title  
**DMRB STAGE 2  
GEOLOGICAL CROSS SECTIONS  
SUPERFICIAL DEPOSITS  
(EXTRACTS FROM GEOLOGICAL MAP)**

Drawing status  
**PRELIMINARY**

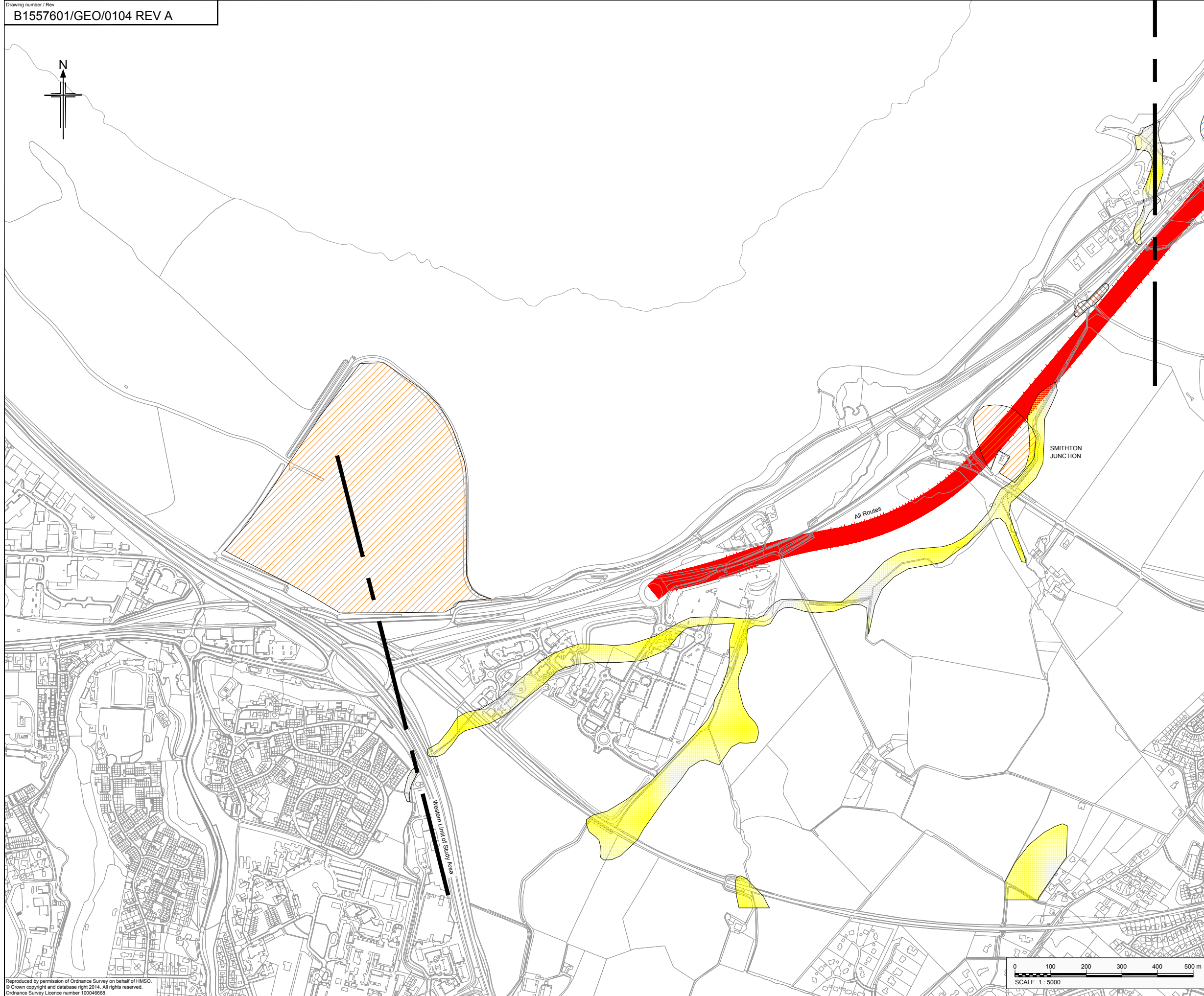
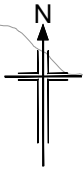
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- Notes
- Boundaries shown are based on the source document indicated. Boundaries may differ between sources.
  - For details of contaminated land refer to Figures 12.1 to 12.9 of Volume 3.
  - Area of potentially compressible glacial/late glacial deposits not shown.

Legend

Source - Geological Maps

- Area of Made Ground
- Area of Worked Ground
- Area of Worked Ground and Made Ground
- Alluvium
- Peat

Source - The Highland Council (THC)  
 A96 Inshes to Nairn DMRB Stage 2 Assessment

- Gravel Pit
- Refuse Tip

Source - Atkins, March 2010  
 Geotechnical Preliminary Sources Study Report

- Area of Made Ground
- Old Pit/Quarry

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**DMRB STAGE 2  
 GEOTECHNICAL CONSTRAINTS  
 PLAN  
 SHEET 1 OF 10**

Drawing status  
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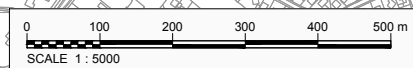
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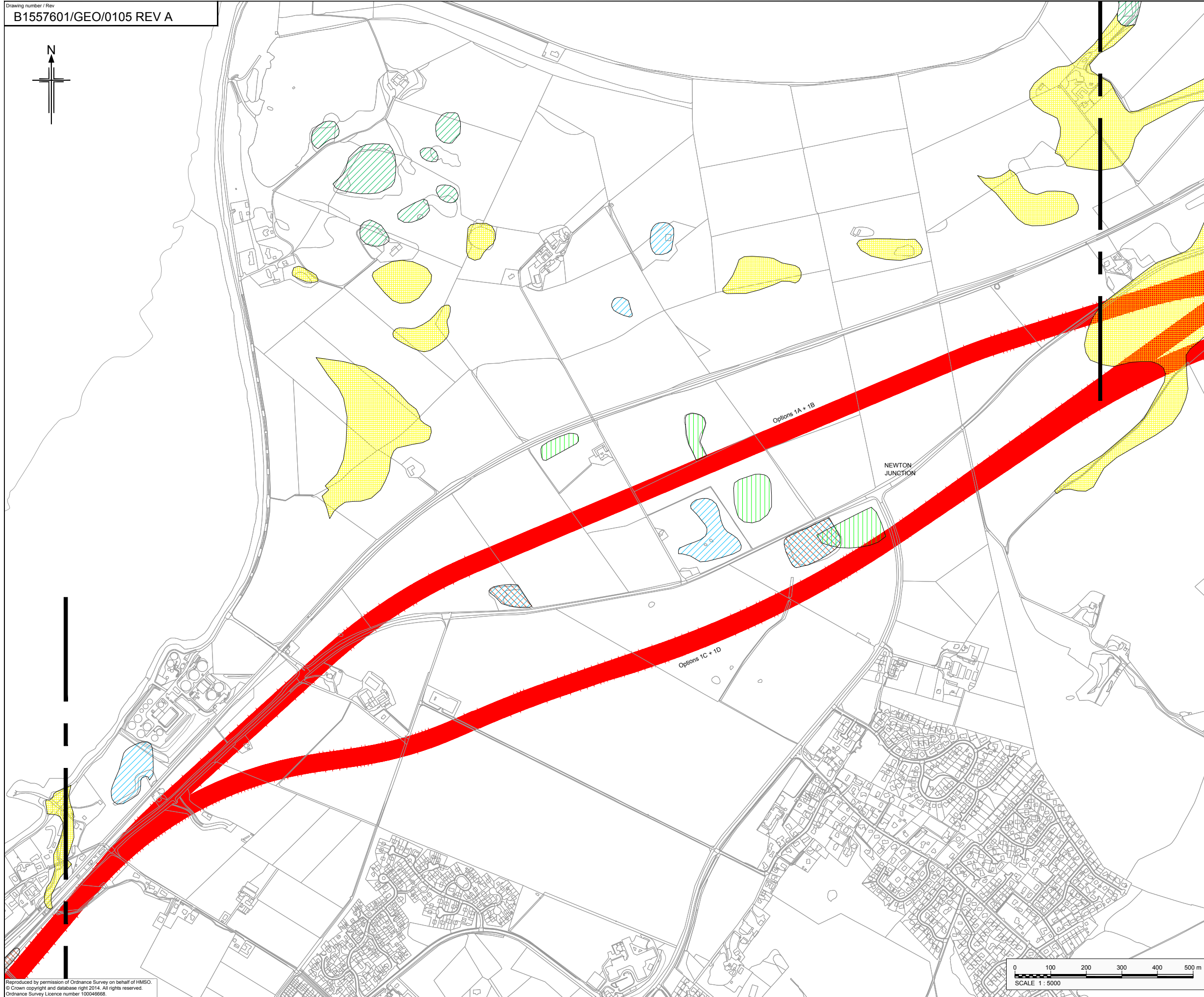
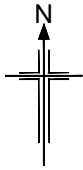
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Drawing number  
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**Legend**

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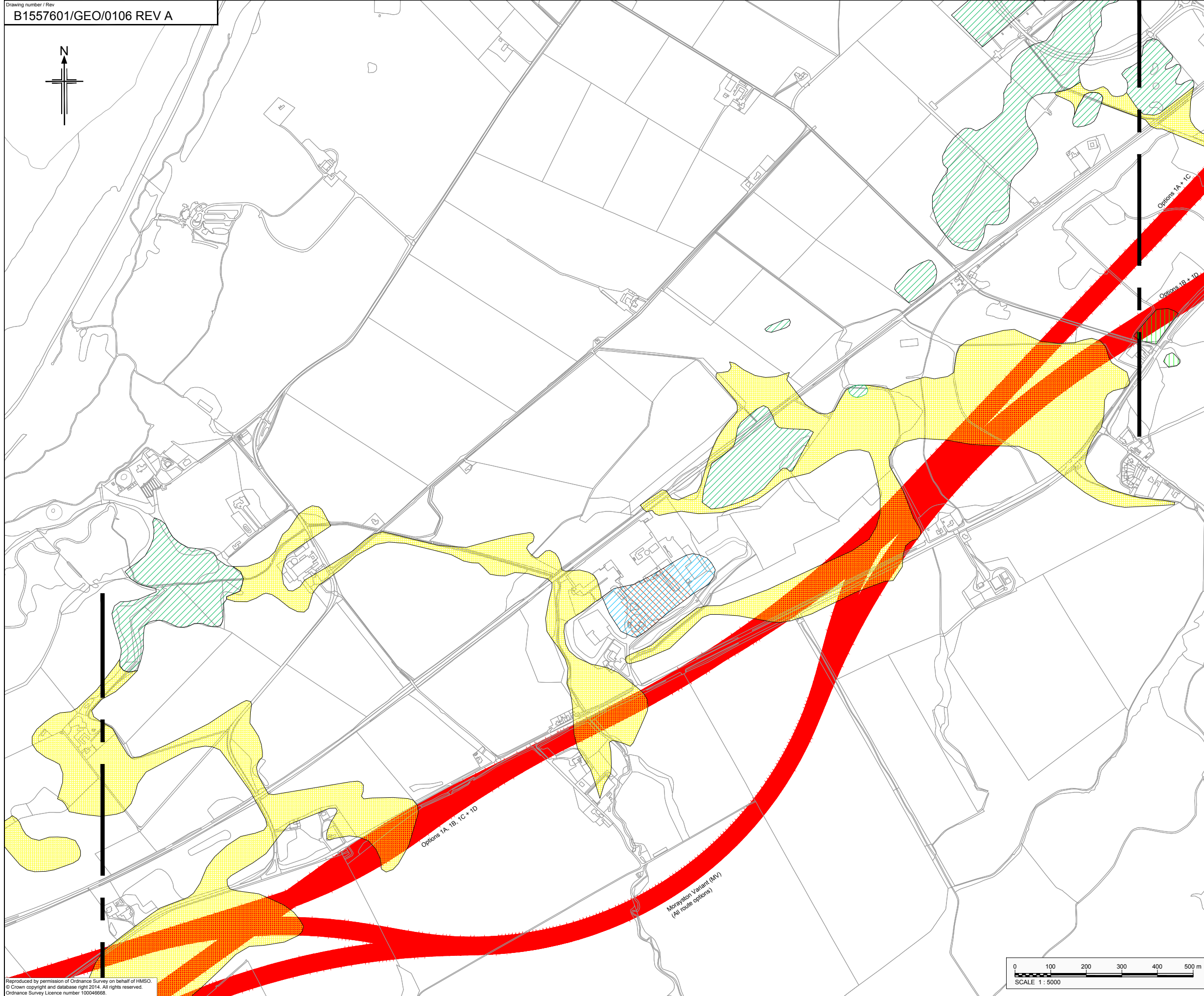
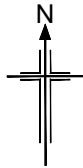
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A96  
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Drawing title  
**DMRB STAGE 2  
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- Gravel Pit
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 Geotechnical Preliminary Sources Study Report
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 GEOTECHNICAL CONSTRAINTS  
 PLAN  
 SHEET 3 OF 10**

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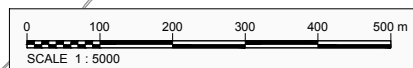
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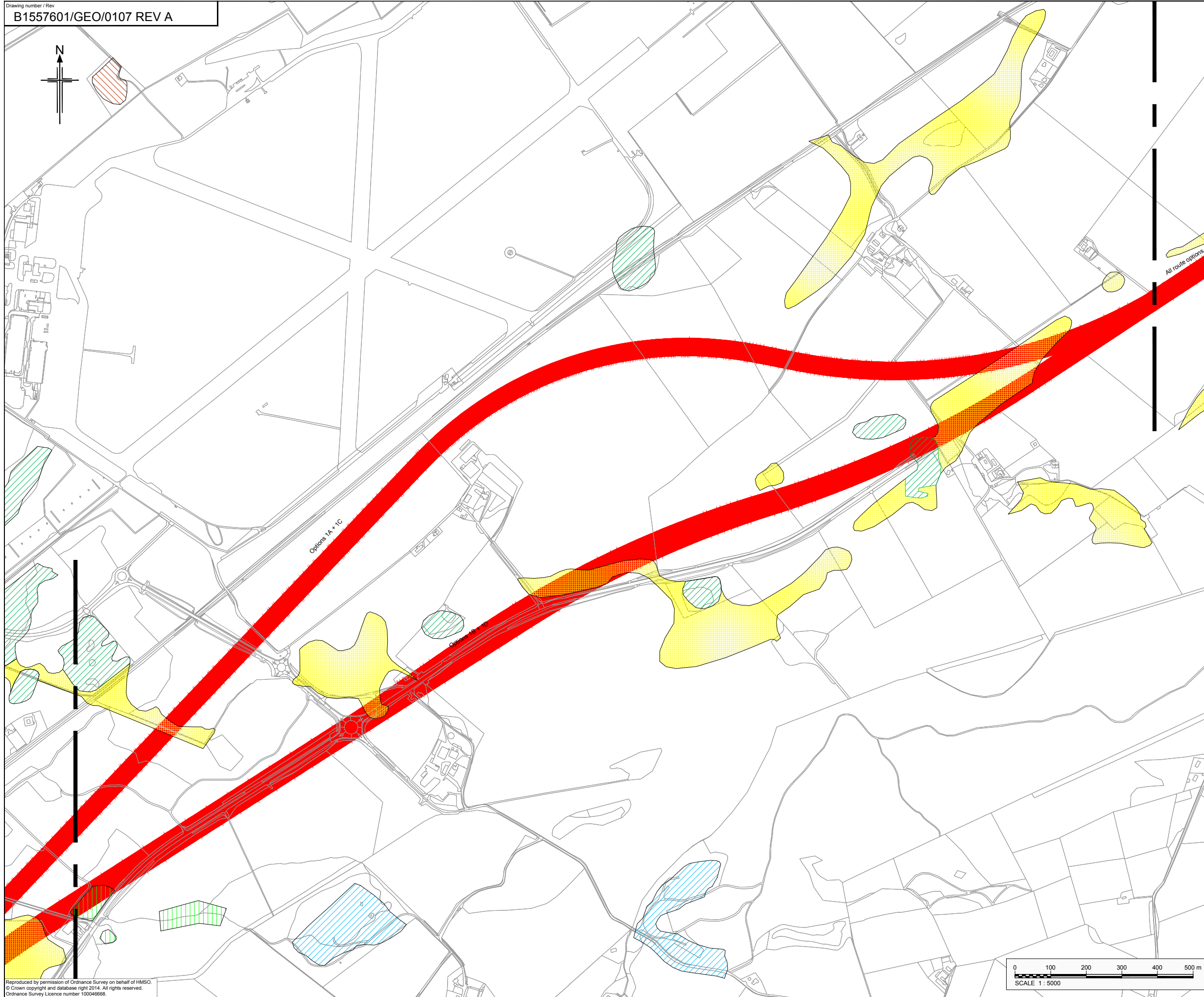
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- Legend**
- Source - Geological Maps
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  - Area of Worked Ground
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  - Alluvium
  - Peat
- Source - The Highland Council (THC)  
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**DMRB STAGE 2  
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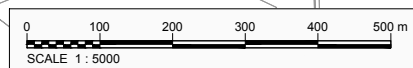
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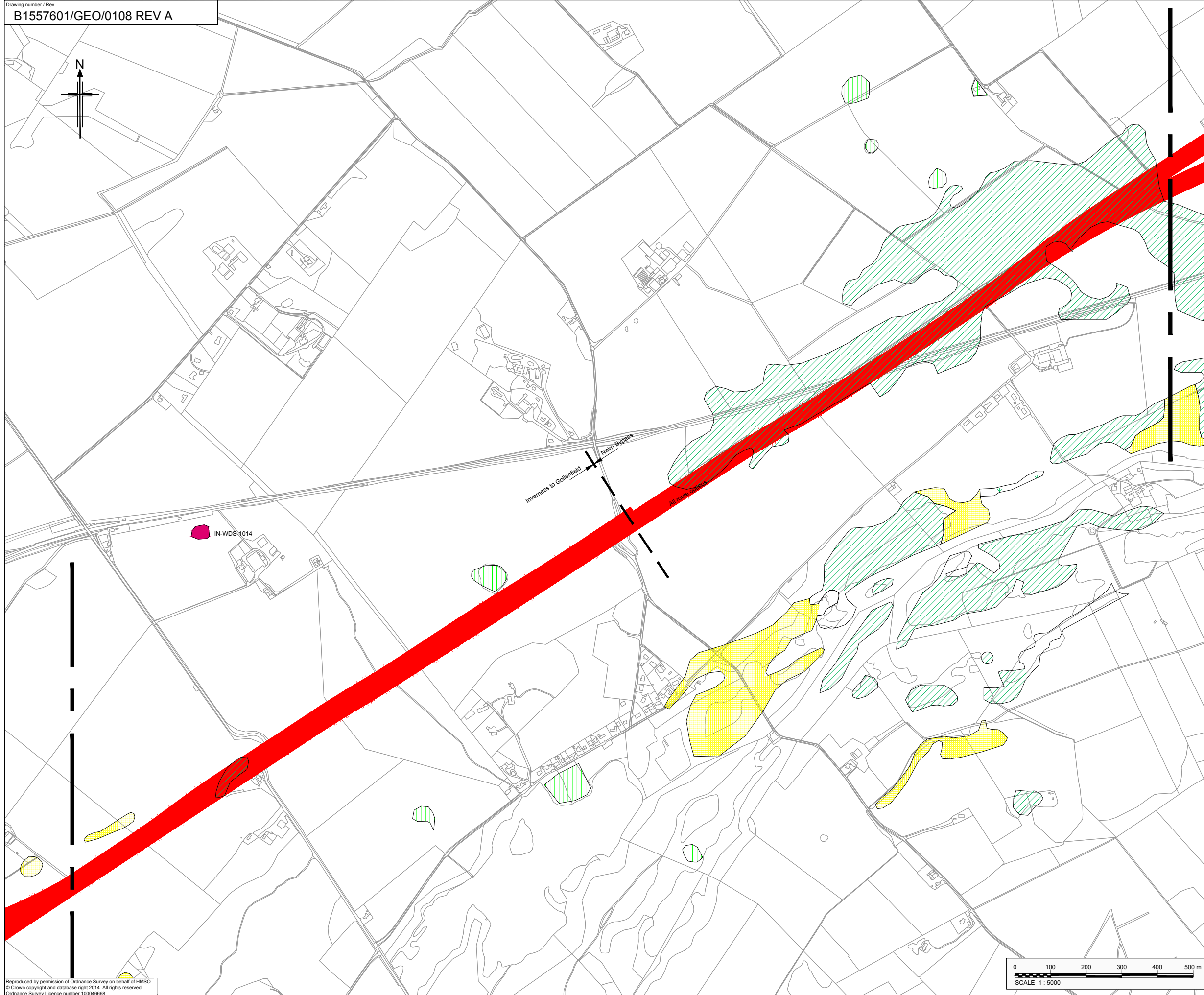
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Legend

Source - Geological Maps

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- Area of Worked Ground and Made Ground
- Alluvium
- Peat

Source - The Highland Council (THC)  
 A96 Inshes to Nairn DMRB Stage 2 Assessment

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Source - Atkins, March 2010  
 Geotechnical Preliminary Sources Study Report

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 SHEET 5 OF 10**

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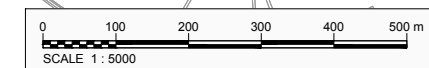
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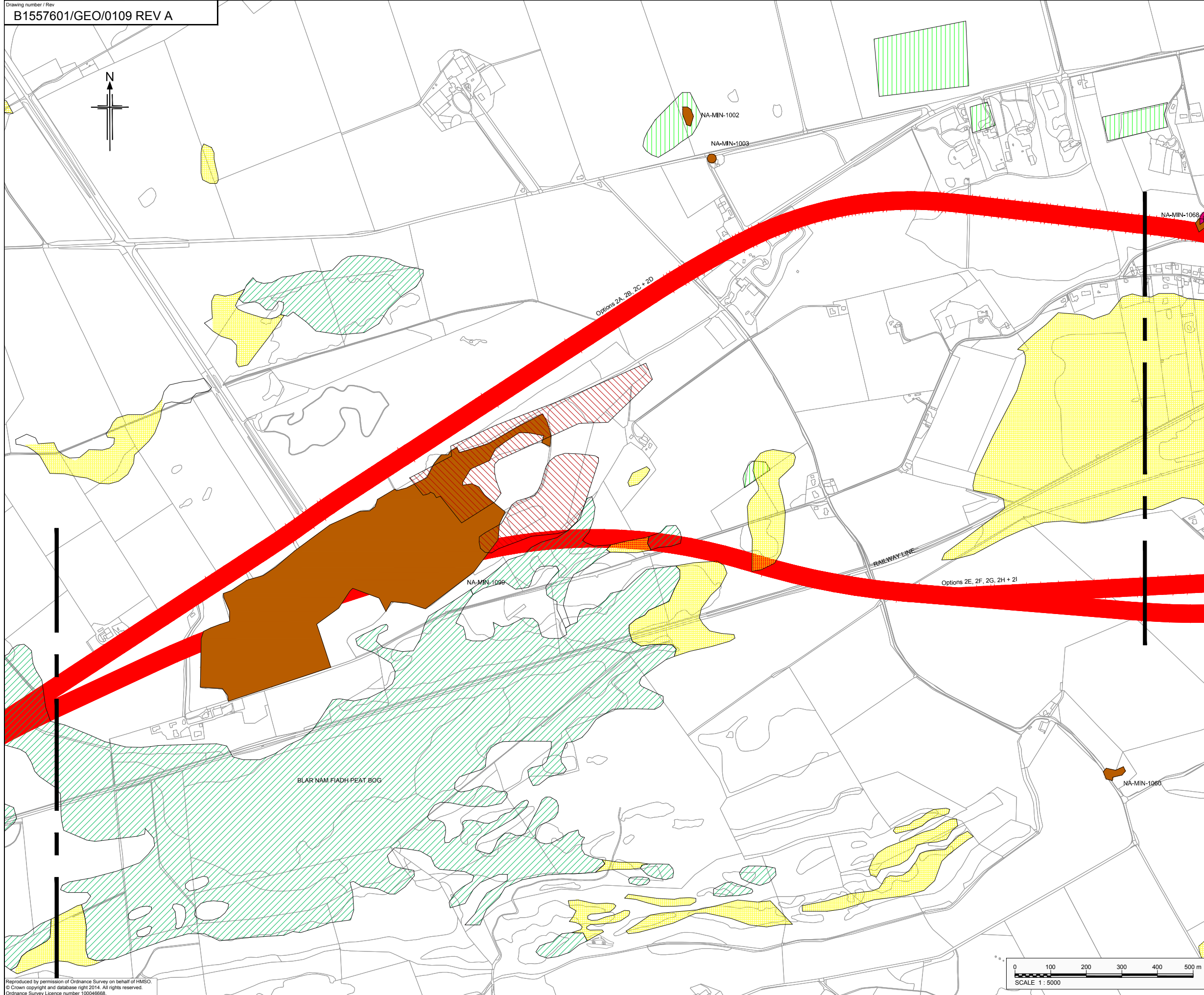
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- Legend
- Source - Geological Maps
- Area of Made Ground
  - Area of Worked Ground
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  - Alluvium
  - Peat
- Source - The Highland Council (THC)  
A96 Inshes to Nairn DMRB Stage 2 Assessment
- Gravel Pit
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- Source - Atkins, March 2010  
Geotechnical Preliminary Sources Study Report
- Area of Made Ground
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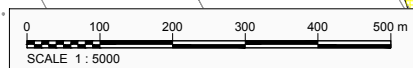
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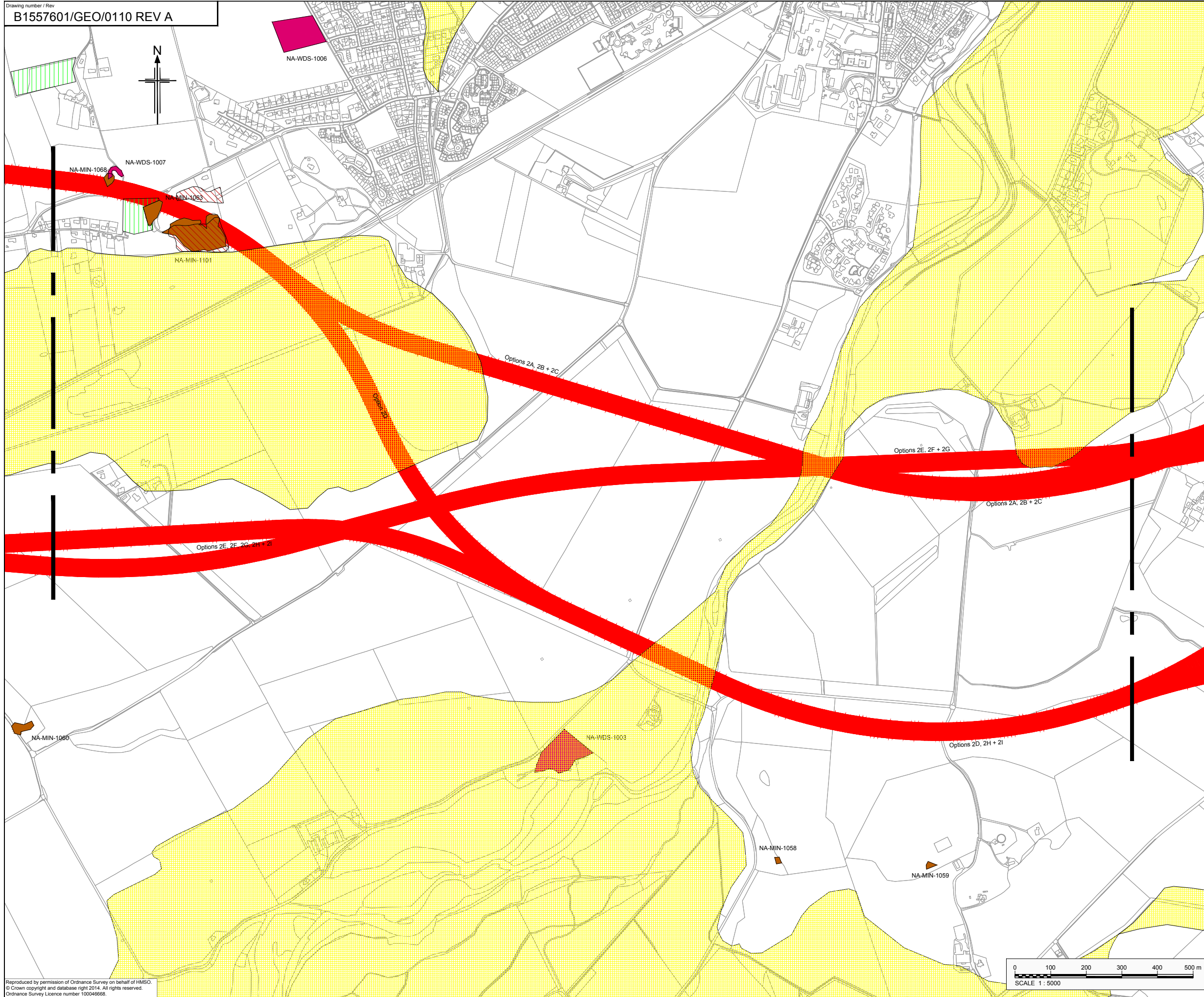
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Legend

Source - Geological Maps

- Area of Made Ground
- Area of Worked Ground
- Area of Worked Ground and Made Ground
- Alluvium
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**DMRB STAGE 2  
GEOTECHNICAL CONSTRAINTS  
PLAN  
SHEET 7 OF 10**

Drawing status

PRELIMINARY

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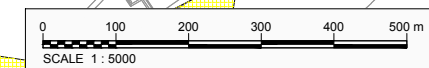
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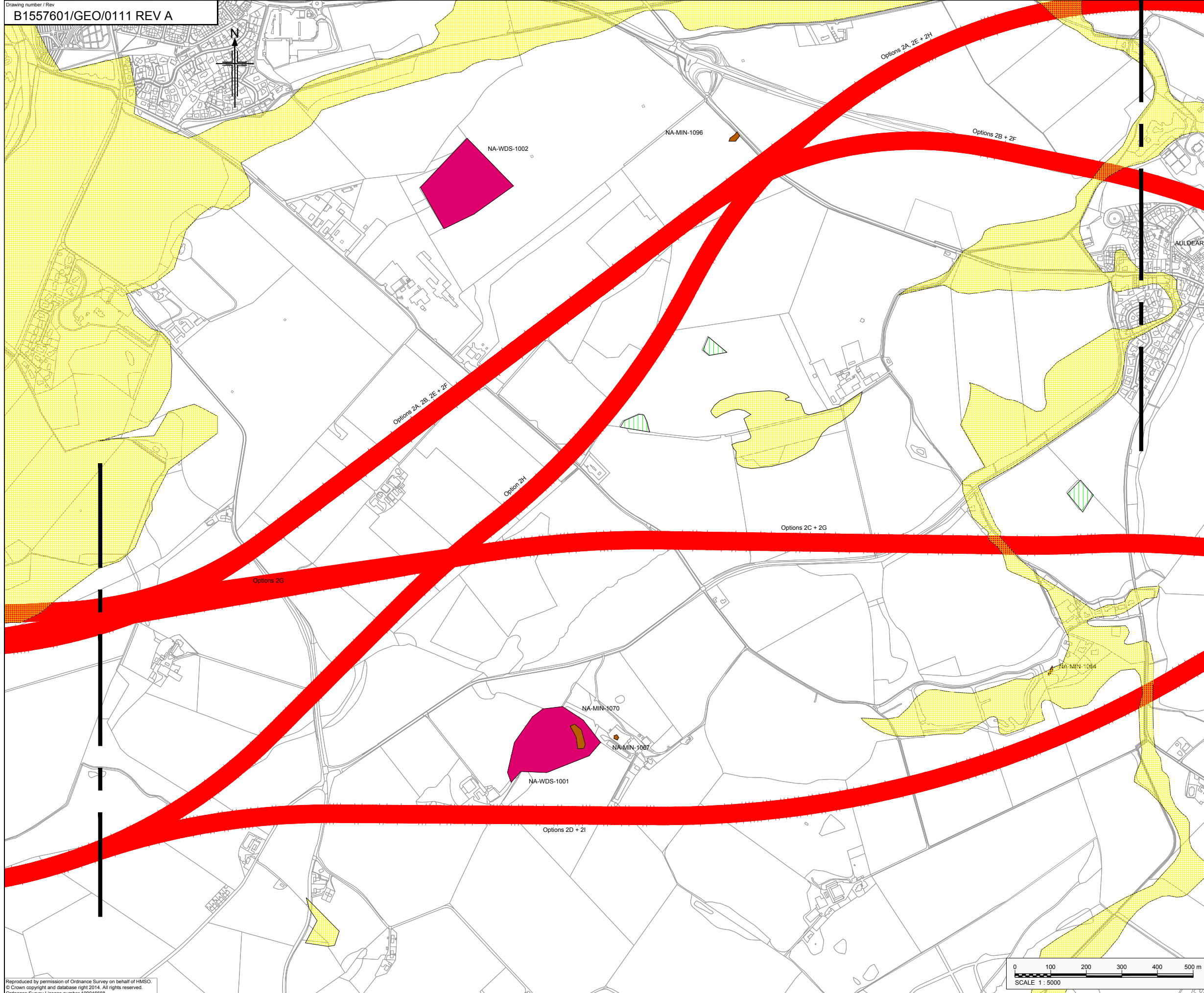
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A





- Notes**
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  - For details of contaminated land refer to Figures 12.1 to 12.9 of Volume 3.
  - Area of potentially compressible glacial/late glacial deposits not shown.

**Legend**

Source - Geological Maps

- Area of Made Ground
- Area of Worked Ground
- Area of Worked Ground and Made Ground
- Alluvium
- Peat

Source - The Highland Council (THC)  
 A96 Inshes to Nairn DMRB Stage 2 Assessment

- Gravel Pit
- Refuse Tip

Source - Atkins, March 2010  
 Geotechnical Preliminary Sources Study Report

- Area of Made Ground
- Old Pit/Quarry

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A	Jan 2014	DMRB Stage 2 Report	CC	IMM	SJD	EHB
Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Approv'd

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Client

**TRANSPORT SCOTLAND**  
 CÒMHAIL ALBA

Project

**A96 DUALLING**  
 INVERNESS TO NAIRN  
 (incl. Nairn Bypass)

Drawing title  
**DMRB STAGE 2  
 GEOTECHNICAL CONSTRAINTS  
 PLAN  
 SHEET 8 OF 10**

Drawing status  
**PRELIMINARY**

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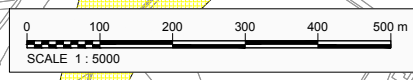
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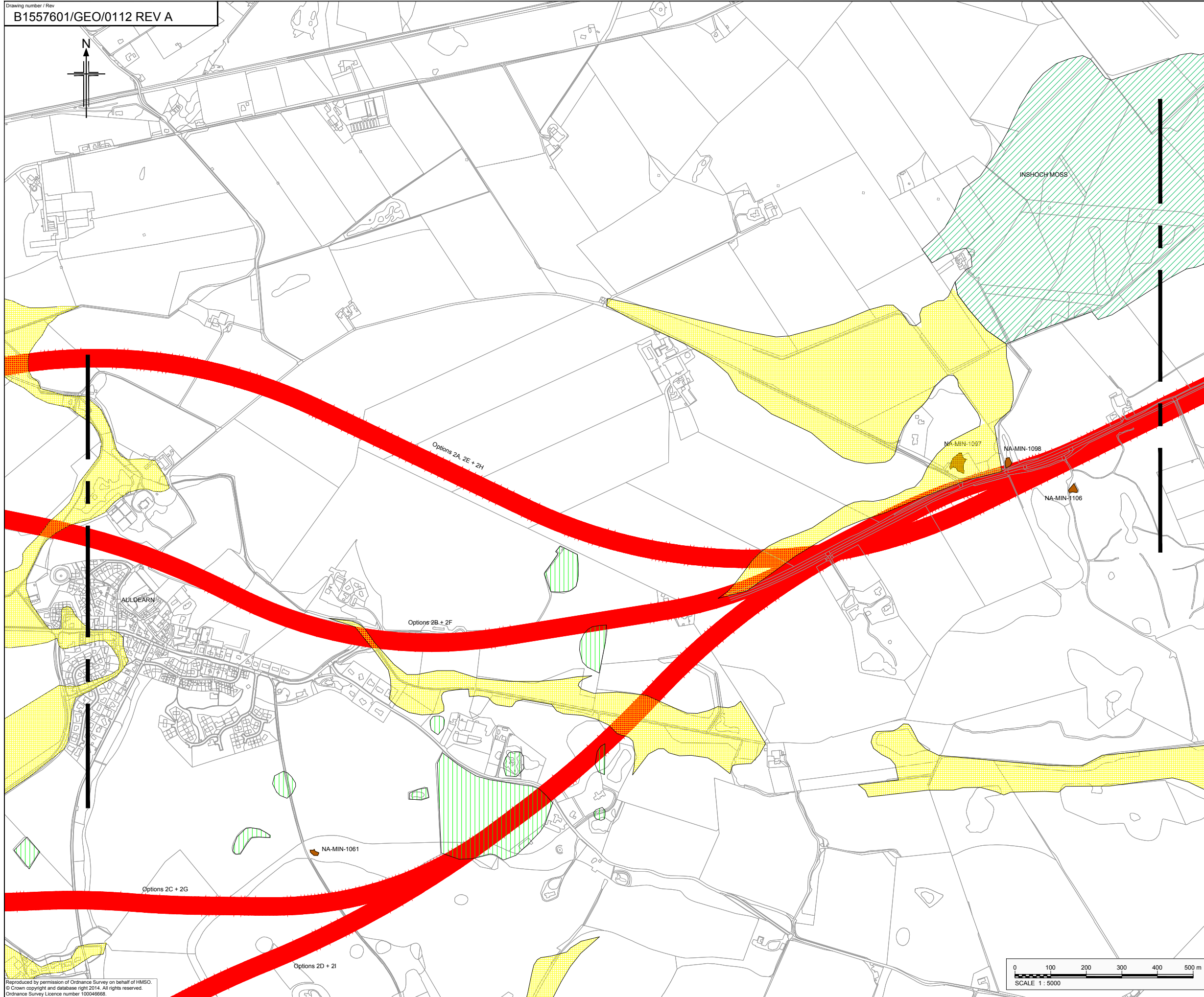
Client no.

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- Legend
- Source - Geological Maps
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  - Area of Worked Ground
  - Area of Worked Ground and Made Ground
  - Alluvium
  - Peat
- Source - The Highland Council (THC)  
A96 Inshes to Nairn DMRB Stage 2 Assessment
- Gravel Pit
  - Refuse Tip
- Source - Atkins, March 2010  
Geotechnical Preliminary Sources Study Report
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Drawing title  
**DMRB STAGE 2  
GEOTECHNICAL CONSTRAINTS  
PLAN  
SHEET 9 OF 10**

Drawing status  
**PRELIMINARY**

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Jacobs No.  
B1557601

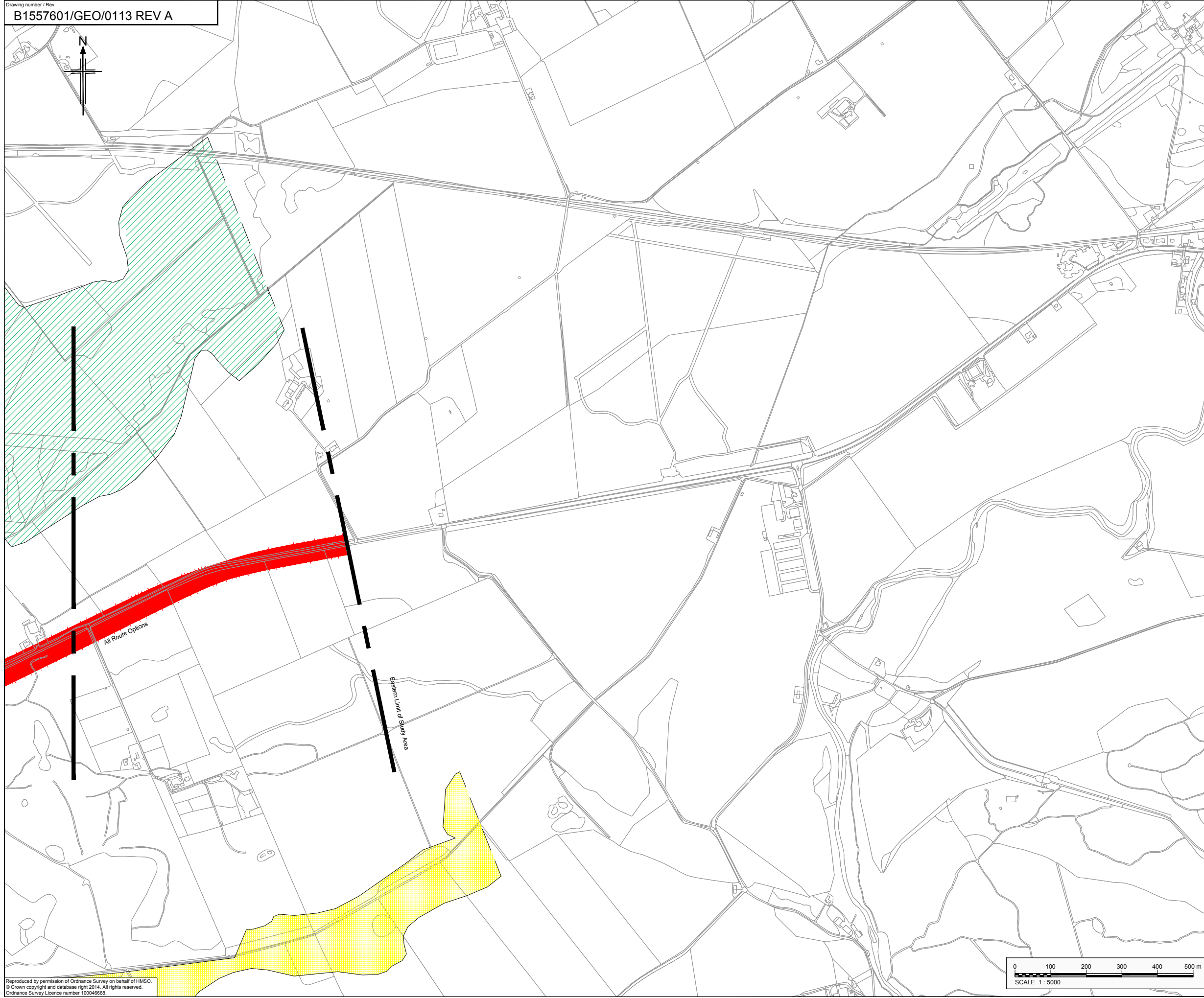
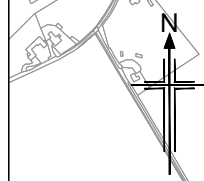
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Drawing number  
**B1557601/GEO/0112**

Rev  
**A**

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- Legend**
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  - Area of Worked Ground and Made Ground
  - Alluvium
  - Peat
- Source - The Highland Council (THC)  
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  - Refuse Tip
- Source - Atkins, March 2010  
 Geotechnical Preliminary Sources Study Report
- Area of Made Ground
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Rev	Rev. Date	Purpose of revision	Drawn	Checked	Rev'd	Apprv'd
A	Jan 2014	DMRB Stage 2 Report	CC	IMM	SJD	EHB

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Drawing title  
**DMRB STAGE 2  
 GEOTECHNICAL CONSTRAINTS  
 PLAN  
 SHEET 10 OF 10**

Drawing status  
**PRELIMINARY**

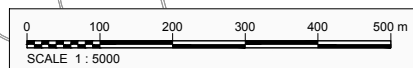
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Drawing number  
**B1557601/GEO/0113**

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