

PLAN
SCALE 1:1000

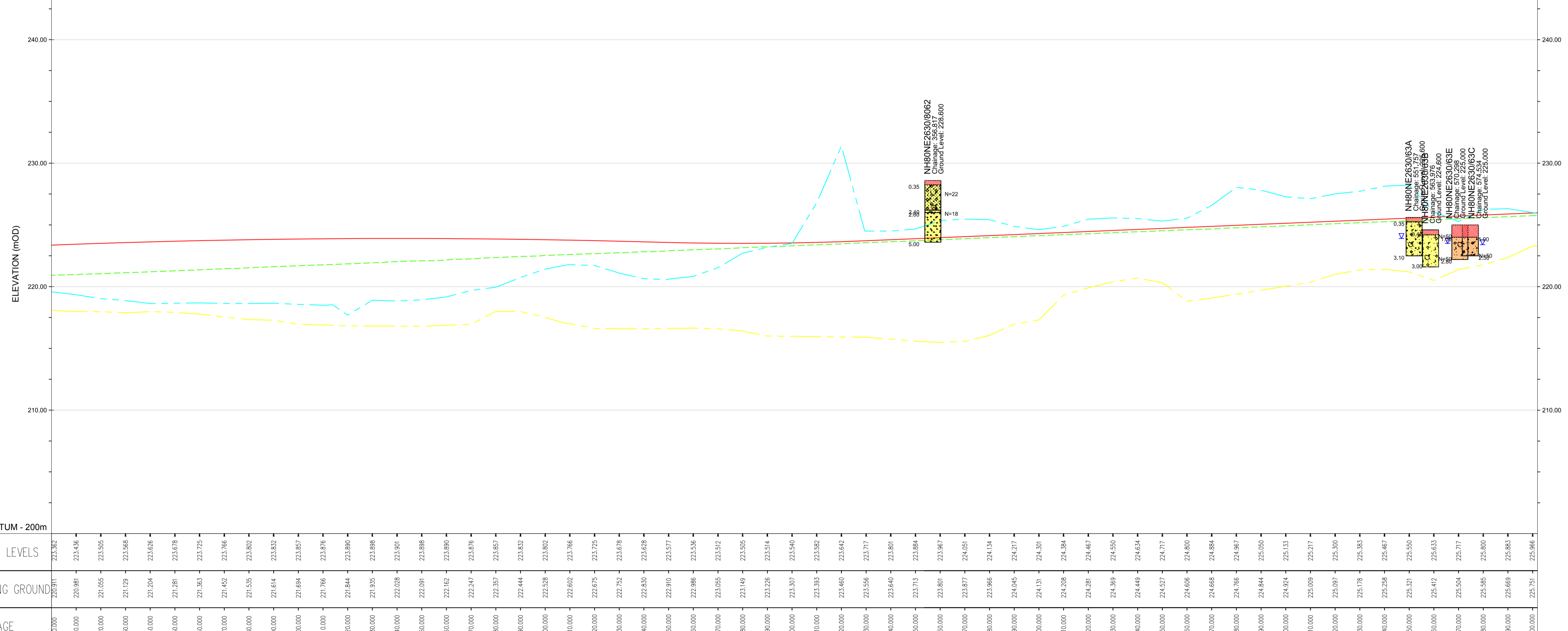
- NOTES:
- ALL LEVELS IN mAOD UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
 - ALL DEPTHS SHOWN ARE IN METRES.
 - HISTORICAL BOREHOLE POSITIONS AND LEVELS INFERRED FROM BGS DATABASE TO ACCURACY ± 10m.

- KEY:
- EXISTING A9
- BGS HISTORICAL GROUND INVESTIGATION:
- | | |
|-----------------------|-----------------------|
| NH82NW 1973 BOREHOLE | NH80NE 1978 BOREHOLE |
| NH82NW 1973 CORE | NH80NE 1978 CORE |
| NH82NW 1973 TRIAL PIT | NH80NE 1978 TRIAL PIT |
| NH91NW 1977 BOREHOLE | NH81SE 2003 BOREHOLE |
| NH91NW 1977 CORE | NH81SE 2003 CORE |
| NH91NW 1977 TRIAL PIT | NH81SE 2003 TRIAL PIT |
| NH81SE 1964 BOREHOLE | NH81SE 1999 BOREHOLE |
| NH81SE 1964 CORE | NH81SE 1999 CORE |
| NH81SE 1964 TRIAL PIT | NH81SE 1999 TRIAL PIT |
| NH82SE 1993 BOREHOLE | NH81SE 1999 BOREHOLE |
| NH82SE 1993 CORE | NH81SE 1999 CORE |
| NH82SE 1993 TRIAL PIT | NH81SE 1999 TRIAL PIT |
| NH82SE 2008 BOREHOLE | NH82SE 2008 BOREHOLE |
| NH82SE 2008 CORE | NH82SE 2008 CORE |
| NH82SE 2008 TRIAL PIT | NH82SE 2008 TRIAL PIT |

- GEOTECHNICAL LONG SECTION KEY:
- | | |
|---------------------------------|-------------|
| TOPSOIL | TOPSOIL |
| MADE GROUND | MADE GROUND |
| PEAT | SAND |
| ALLUVIUM GRANULAR | GRAVEL |
| RIVER TERRACE DEPOSITS COHESIVE | SILT |
| RIVER TERRACE DEPOSITS GRANULAR | CLAY |
| GLACIAL FLUVIAL GRANULAR | BOULDERS |
| GLACIAL TILL COHESIVE | BEDROCK |
| GLACIAL TILL GRANULAR | |
| ROCK | |

NOTE:
COMPOSITE SOIL TYPES WILL BE SIGNIFIED BY COMBINED SYMBOLS E.G. SILTY SAND
DEPTHS (m BGL) ARE GENERALLY PRESENTED TO THE LEFT OF THE BOREHOLE LOGS ON THE GEOLOGICAL SECTION.

- WATER STRIKE
- RISE TO IN 20 MINS
- PROPOSED ROAD LEVEL
- EXISTING GROUND LEVEL
- SOUTHBOUND EARTHWORKS LEVEL
- NORTHBOUND EARTHWORKS LEVEL



ELEVATION
SCALE 1:1000 H 1:200 V

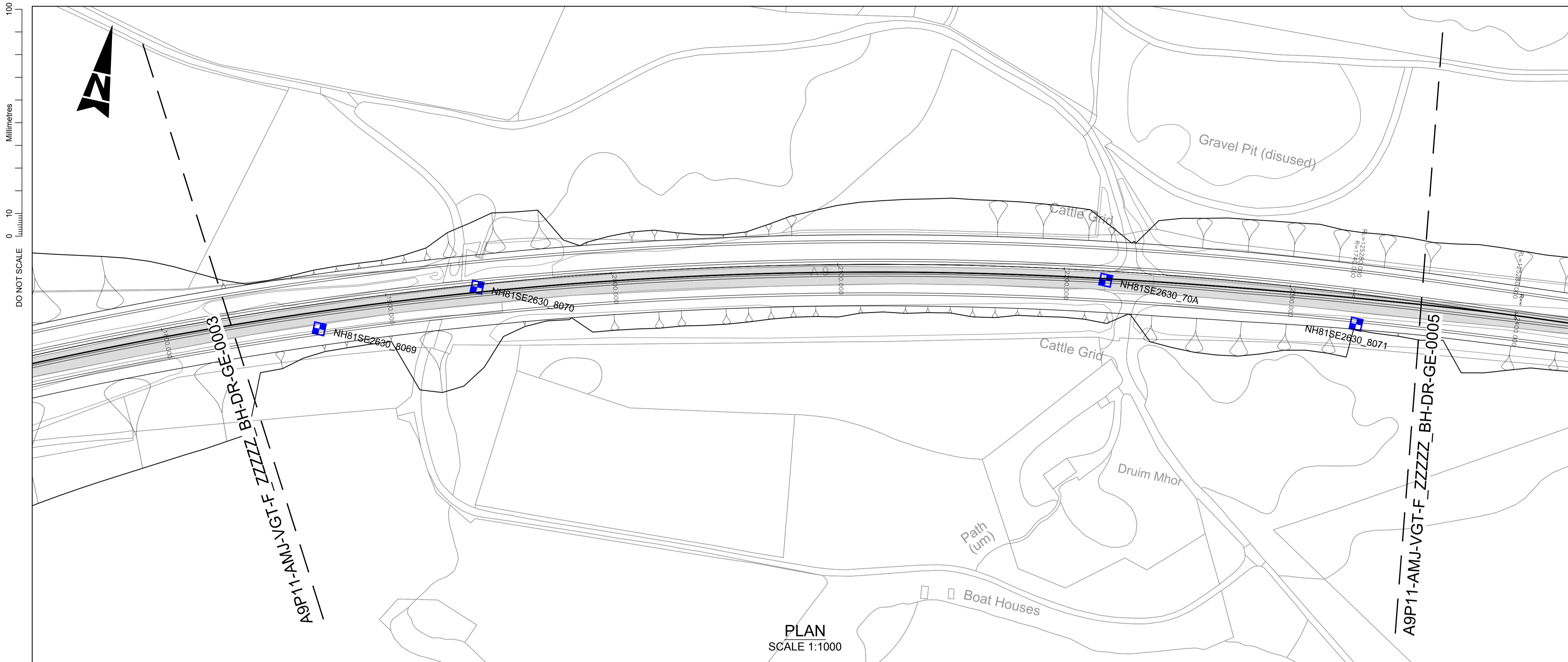
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FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B

Client				
 An agency of The Scottish Government				
 Dalraddy to Slouch				

Drawing Title				
FIGURE 5.21-MAINLINE ALIGNMENT OPTION 2 BOREHOLE PLAN AND LONG SECTION (SHEET 1 OF 41)				
Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	CC	KP	KP	RG
Original Size	Date	Date	Date	Date
A1	02/08/16	03/08/16	03/08/16	05/08/16
Drawing Number				
Project	Originator	Volume	Revision	
A9P11 - AMJ - VGT - F_ZZZZ_BH - DR - GE - 0001			P01	
Location	Type	Role	Number	

Plotlet: Mar 26, 2017 - 8:24pm by: CARR6635

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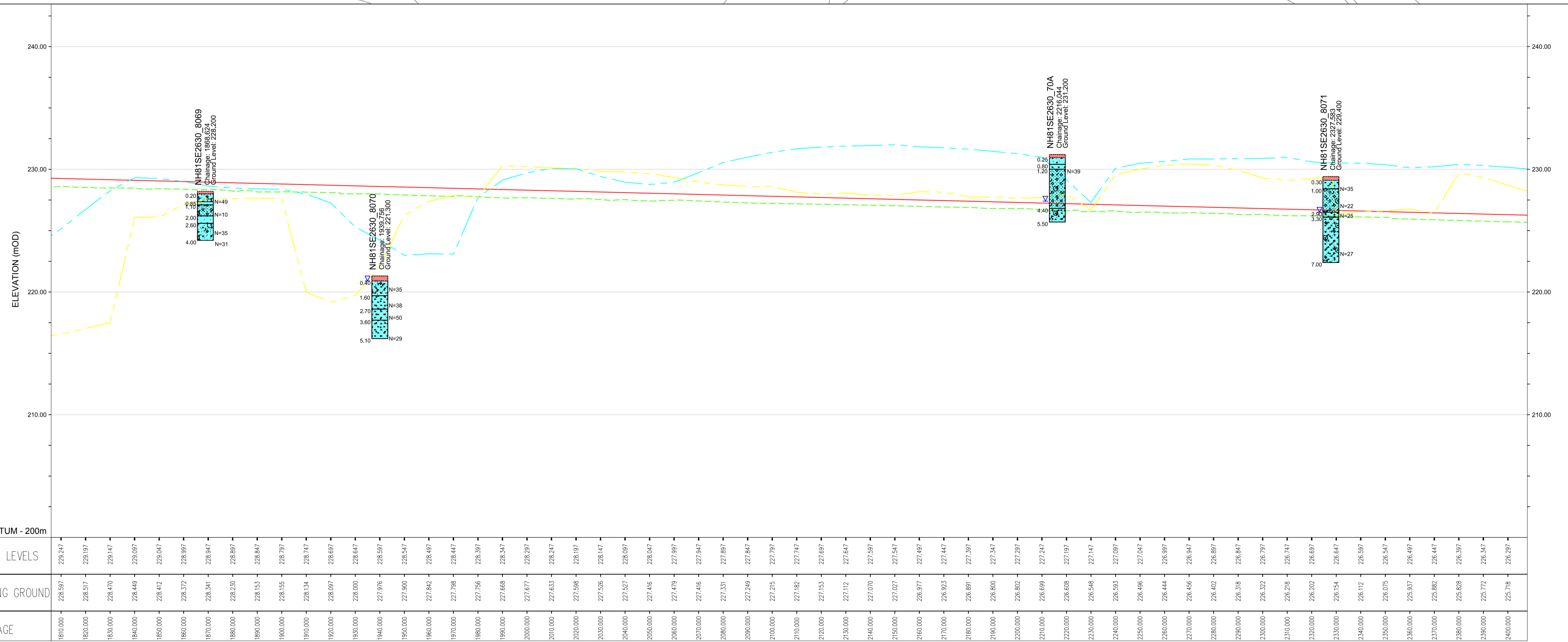
- KEY:**
- EXISTING A9
- BGS HISTORICAL GROUND INVESTIGATION:**
- | | |
|-----------------------|-----------------------|
| NH82NW 1973 BOREHOLE | NH80NE 1978 BOREHOLE |
| NH82NW 1973 CORE | NH80NE 1978 CORE |
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| NH91NW 1977 CORE | NH81SE 2003 CORE |
| NH81SE 1964 BOREHOLE | NH81SE 2003 TRIAL PIT |
| NH81SE 1964 CORE | NH81SE 1999 BOREHOLE |
| NH81SE 1964 TRIAL PIT | NH81SE 1999 CORE |
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| NH82SE 1993 CORE | NH81SE 1999 BOREHOLE |
| NH82SE 1993 TRIAL PIT | NH81SE 1999 CORE |
| NH82SE 2008 BOREHOLE | NH81SE 1999 TRIAL PIT |
| NH82SE 2008 CORE | |
| NH82SE 2008 TRIAL PIT | |

- GEOTECHNICAL LONG SECTION KEY:**
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- SOUTHBOUND EARTHWORKS LEVEL
- NORTHBOUND EARTHWORKS LEVEL

PLAN SCALE 1:1000



P01	CC	KP	KP	05/08/16
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B

Client				
 An agency of The Scottish Government				
 Dalraddy to Slouch				

Drawing Title
FIGURE 5.21-MAINLINE ALIGNMENT OPTION 2 BOREHOLE PLAN AND LONG SECTION (SHEET 4 OF 41)

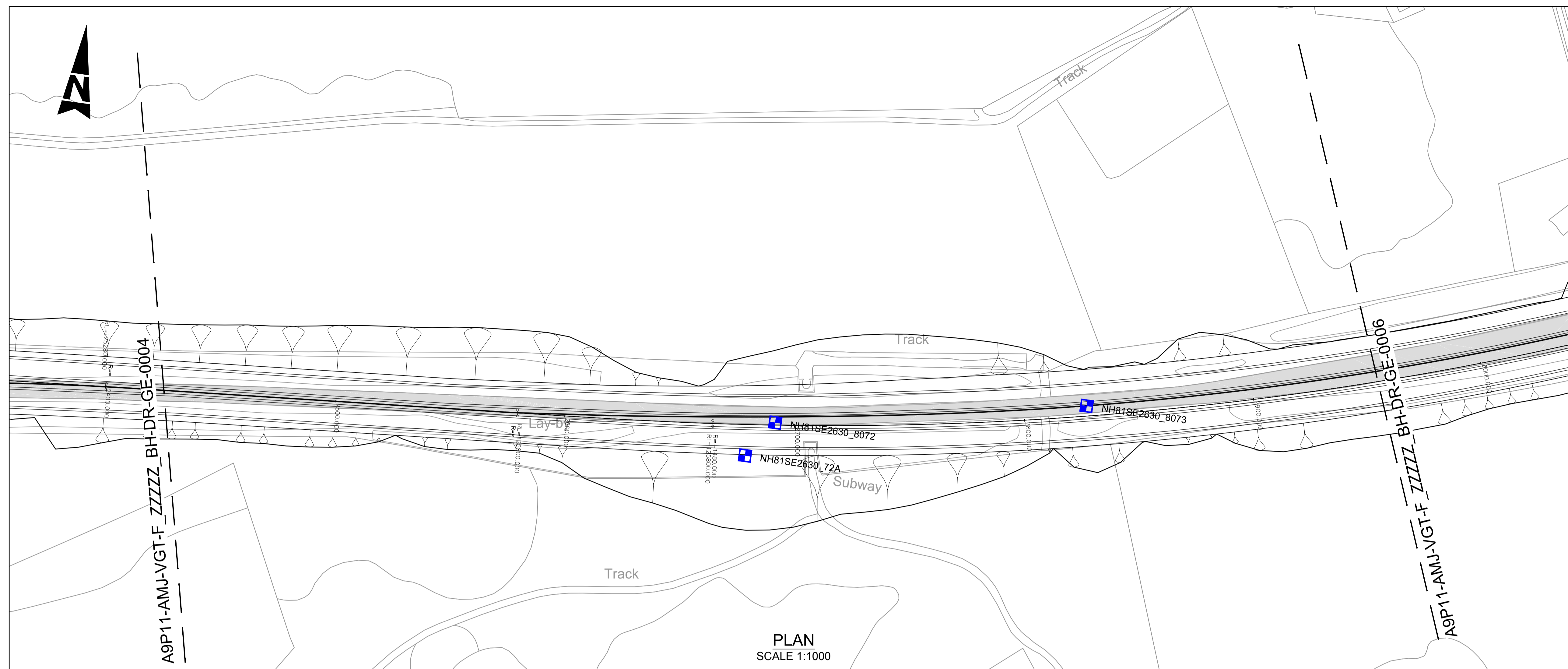
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A9P11 - AMJ - VGT - F_ZZZZ_BH - DR - GE - 0004			P01	
Location	Type	Role	Number	

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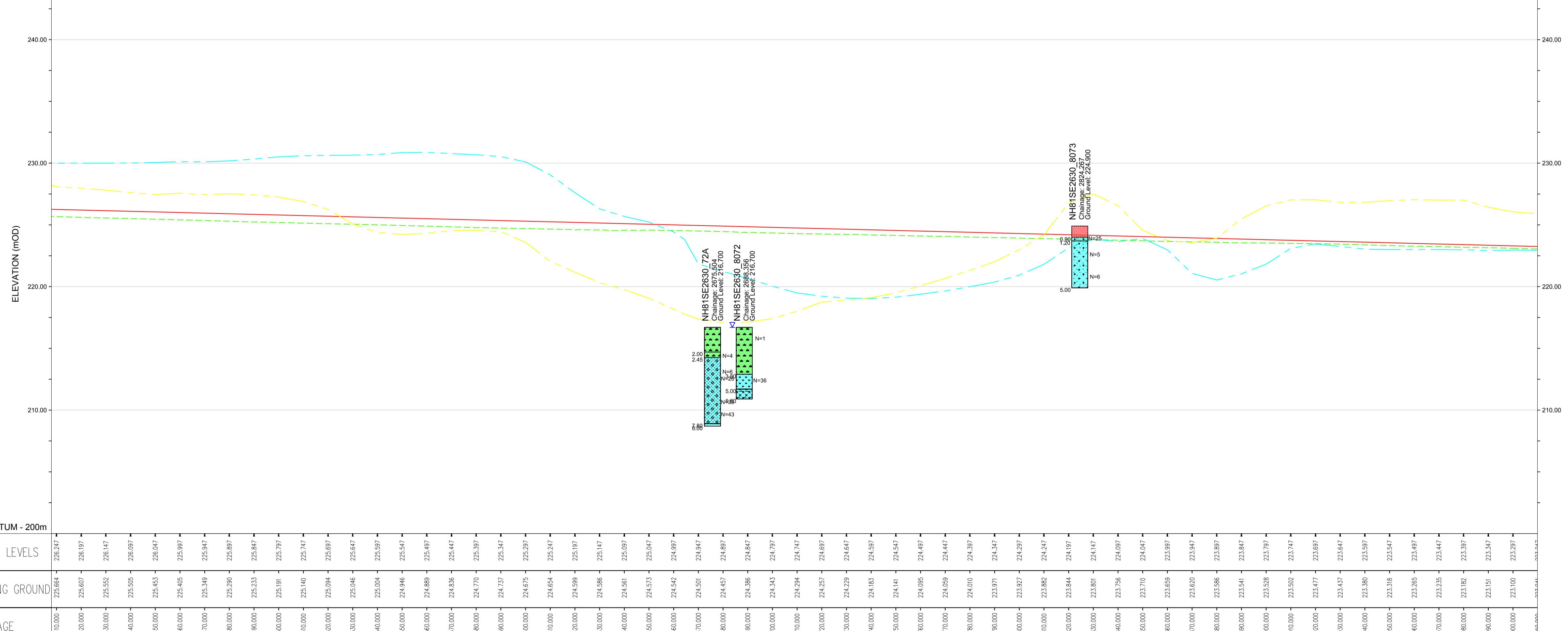
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Millimetres
DO NOT SCALE



PLAN
SCALE 1:1000

- NOTES:**
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- KEY:**
- EXISTING A9
- BGS HISTORICAL GROUND INVESTIGATION:**
- | | |
|-----------------------|-----------------------|
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| NH82NW 1973 CORE | NH80NE 1978 CORE |
| NH82NW 1973 TRIAL PIT | NH80NE 1978 TRIAL PIT |
| NH81NW 1977 BOREHOLE | NH81SE 2003 BOREHOLE |
| NH81NW 1977 CORE | NH81SE 2003 CORE |
| NH81NW 1977 TRIAL PIT | NH81SE 2003 TRIAL PIT |
| NH81SE 1964 BOREHOLE | NH81SE 1999 BOREHOLE |
| NH81SE 1964 CORE | NH81SE 1999 CORE |
| NH81SE 1964 TRIAL PIT | NH81SE 1999 TRIAL PIT |
| NH82SE 1993 BOREHOLE | NH81SE 1999 BOREHOLE |
| NH82SE 1993 CORE | NH81SE 1999 CORE |
| NH82SE 1993 TRIAL PIT | NH81SE 1999 TRIAL PIT |
| NH82SE 2008 BOREHOLE | NH82SE 2008 CORE |
| NH82SE 2008 CORE | NH82SE 2008 TRIAL PIT |
- GEOTECHNICAL LONG SECTION KEY:**
- | | |
|---------------------------------|-------------|
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| MADE GROUND | MADE GROUND |
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| ALLUVIUM GRANULAR | GRAVEL |
| RIVER TERRACE DEPOSITS COHESIVE | SILT |
| RIVER TERRACE DEPOSITS GRANULAR | CLAY |
| GLACIAL FLUVIAL GRANULAR | BOULDERS |
| GLACIAL TILL COHESIVE | BEDROCK |
| GLACIAL TILL GRANULAR | |
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 - SOUTHBOUND EARTHWORKS LEVEL
 - NORTHBOUND EARTHWORKS LEVEL



ELEVATION
SCALE 1:1000 H 1:200 V

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FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Subtibility
FINAL				B

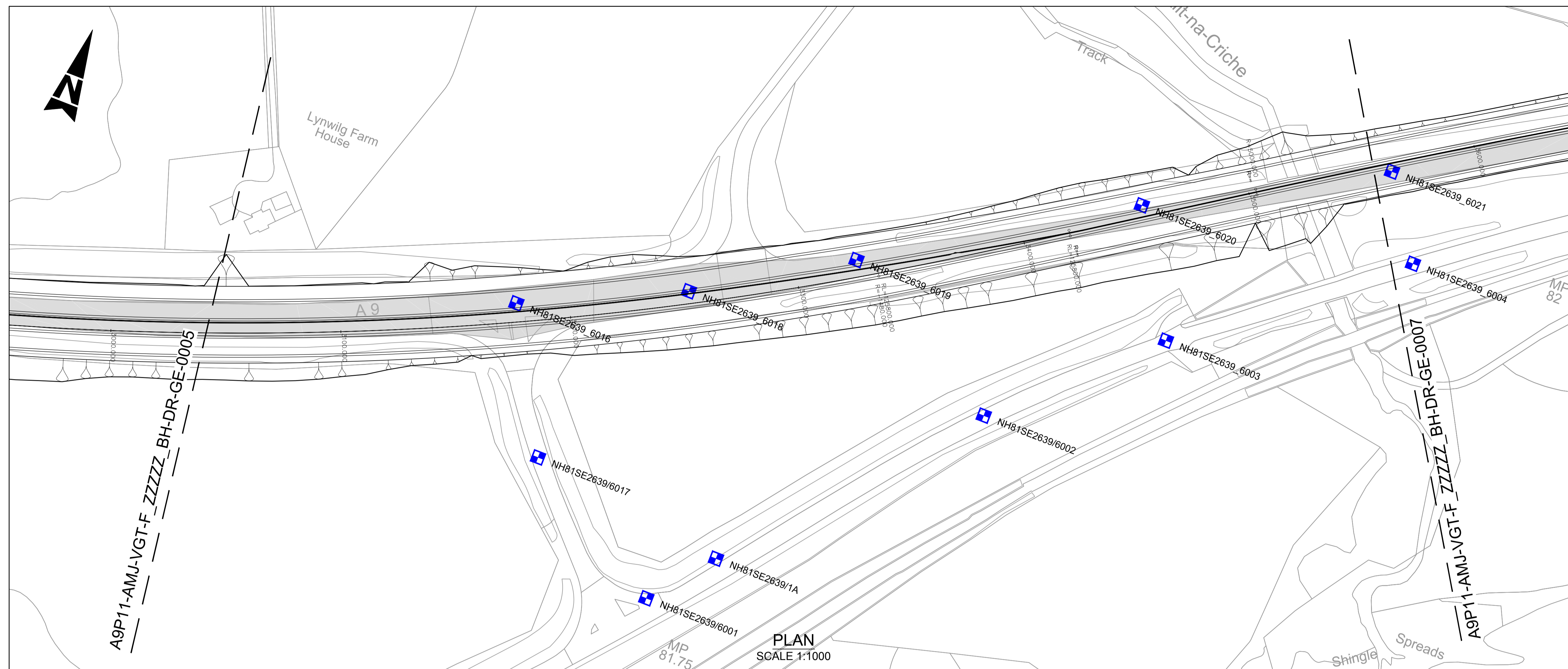
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 An agency of The Scottish Government				
 Dalraddy to Stochd				

Drawing Title				
FIGURE 5.21-MAINLINE ALIGNMENT OPTION 2 BOREHOLE PLAN AND LONG SECTION (SHEET 5 OF 41)				
Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	CC	KP	KP	RG
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A9P11 - AMJ - VGT - F_ZZZZ_BH - DR - GE - 0005			P01	
Location	Type	Role	Number	

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Millimetres
DO NOT SCALE



NOTES:

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- ALL DEPTHS SHOWN ARE IN METRES.
- HISTORICAL BOREHOLE POSITIONS AND LEVELS INFERRED FROM BGS DATABASE TO ACCURACY ± 10m.

KEY:

EXISTING A9

BGS HISTORICAL GROUND INVESTIGATION:

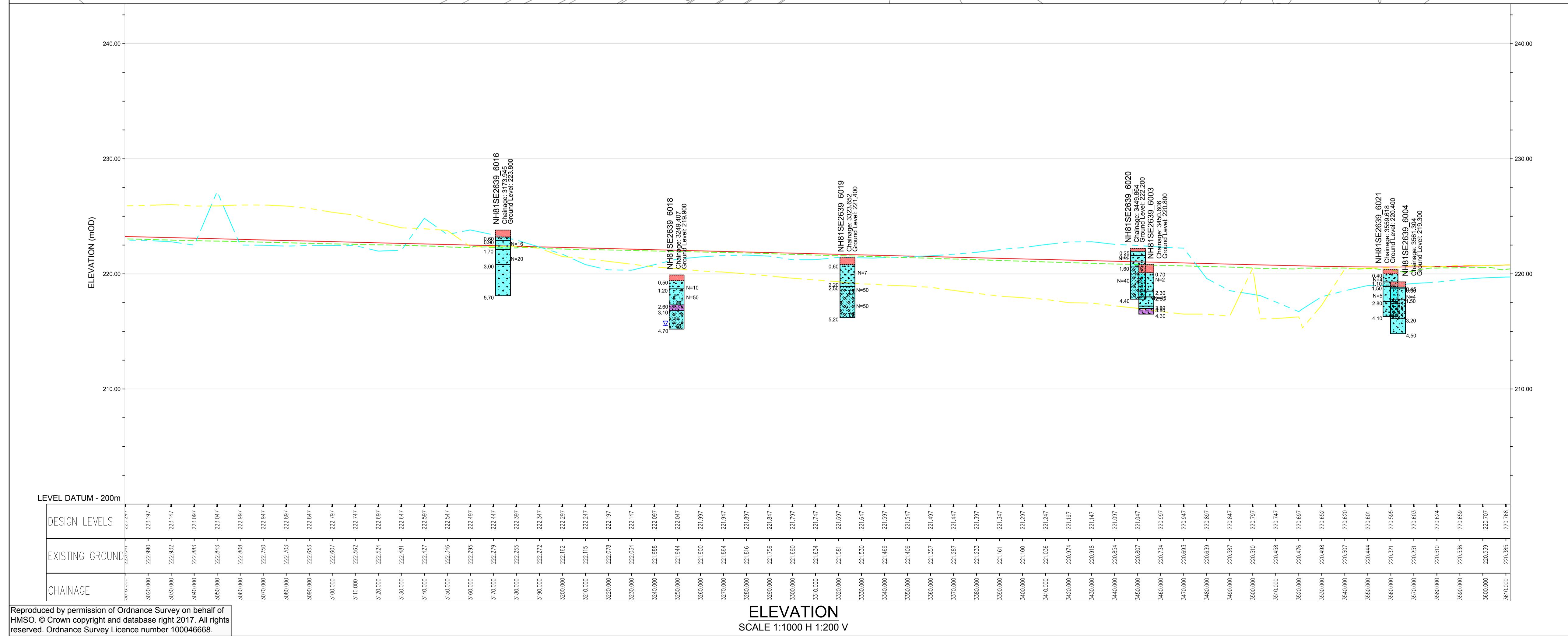
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NH82NW 1973 CORE	NH80NE 1978 CORE
NH82NW 1973 TRIAL PIT	NH81SE 1978 TRIAL PIT
NH91NW 1977 BOREHOLE	NH81SE 2003 BOREHOLE
NH91NW 1977 CORE	NH81SE 2003 CORE
NH91NW 1977 TRIAL PIT	NH81SE 2003 TRIAL PIT
NH81SE 1964 BOREHOLE	NH81SE 1999 BOREHOLE
NH81SE 1964 CORE	NH81SE 1999 CORE
NH81SE 1964 TRIAL PIT	NH81SE 1999 TRIAL PIT
NH82SE 1993 BOREHOLE	NH81SE 1999 BOREHOLE
NH82SE 1993 CORE	NH81SE 1999 CORE
NH82SE 1993 TRIAL PIT	NH81SE 1999 TRIAL PIT
NH82SE 2008 BOREHOLE	
NH82SE 2008 CORE	
NH82SE 2008 TRIAL PIT	

GEOTECHNICAL LONG SECTION KEY:

TOPSOIL	TOPSOIL
MADE GROUND	MADE GROUND
PEAT	SAND
ALLUVIUM GRANULAR	GRAVEL
RIVER TERRACE DEPOSITS COHESIVE	SILT
RIVER TERRACE DEPOSITS GRANULAR	CLAY
GLACIAL FLUVIAL GRANULAR	BOULDERS
GLACIAL TILL COHESIVE	BEDROCK
GLACIAL TILL GRANULAR	
ROCK	

NOTE:
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WATER STRIKE
 RISE TO IN 20 MINS
 PROPOSED ROAD LEVEL
 EXISTING GROUND LEVEL
 SOUTHBOUND EARTHWORKS LEVEL
 NORTHBOUND EARTHWORKS LEVEL



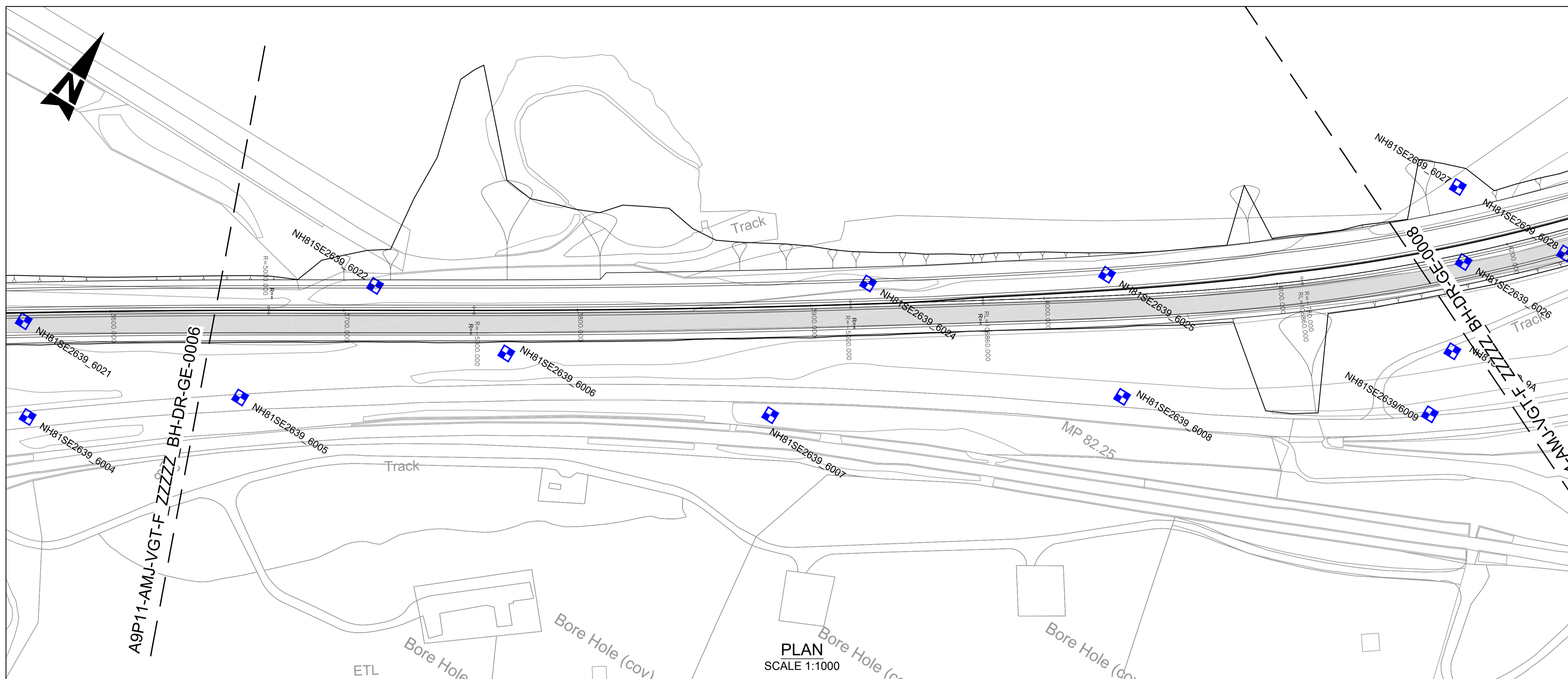
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FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
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Drawing Status				B
Client				
 An agency of The Scottish Government				
 Dalraddy to Slouch				
Drawing Title				
FIGURE 5.21-MAINLINE ALIGNMENT OPTION 2 BOREHOLE PLAN AND LONG SECTION (SHEET 6 OF 41)				
Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	CC	KP	KP	RG
Original Size	Date	Date	Date	Date
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Drawing Number				
Project	Originator	Volume	Revision	
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Plotfile: Mar 26, 2017 - 10:03pm by: CARR6655

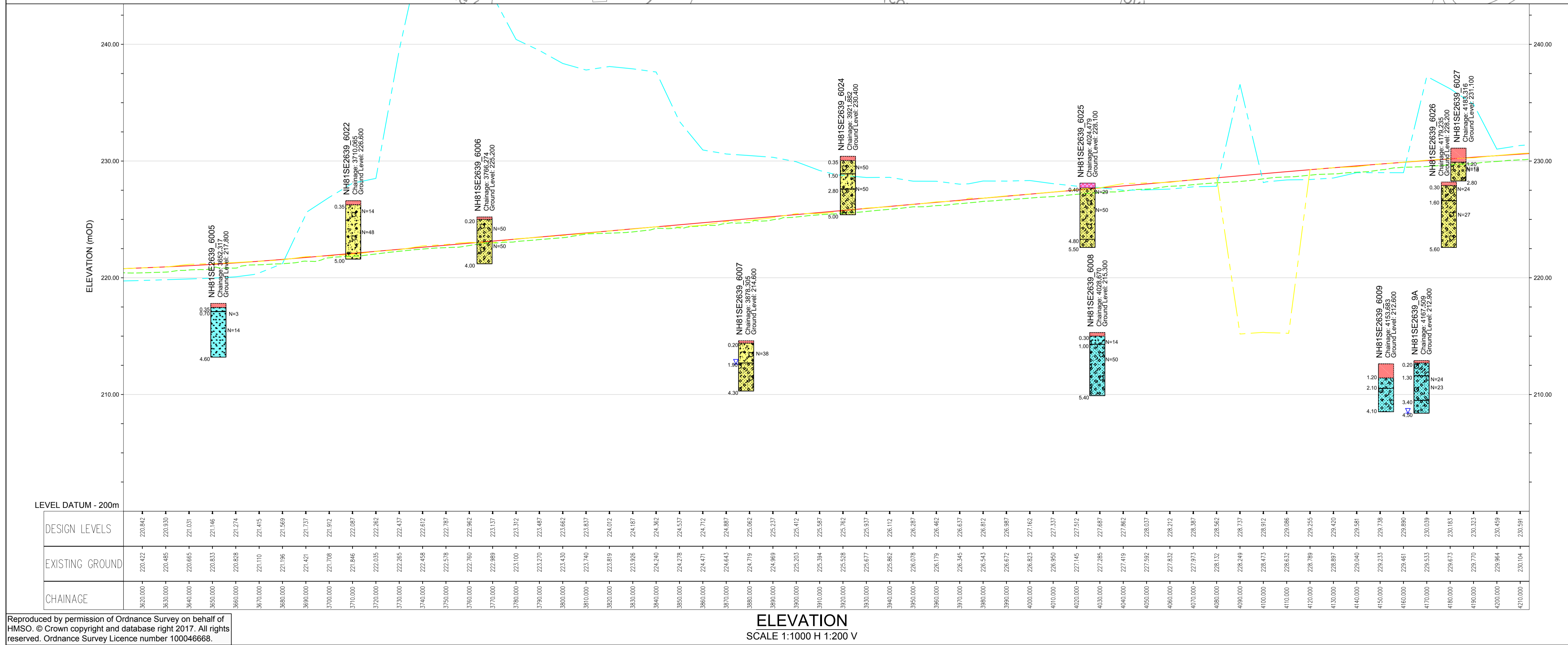
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ELEVATION
SCALE 1:1000 H 1:200 V

100
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Millimetres
DO NOT SCALE



- NOTES:**
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 - HISTORICAL BOREHOLE POSITIONS AND LEVELS INFERRED FROM BGS DATABASE TO ACCURACY ± 10m.
- KEY:**
- EXISTING A9
- BGS HISTORICAL GROUND INVESTIGATION:**
- | | |
|-----------------------|-----------------------|
| NH82NW 1973 BOREHOLE | NH80NE 1978 BOREHOLE |
| NH82NW 1973 CORE | NH80NE 1978 CORE |
| NH82NW 1973 TRIAL PIT | NH80NE 1978 TRIAL PIT |
| NH81NW 1977 BOREHOLE | NH81SE 2003 BOREHOLE |
| NH81NW 1977 CORE | NH81SE 2003 CORE |
| NH81NW 1977 TRIAL PIT | NH81SE 2003 TRIAL PIT |
| NH81SE 1964 BOREHOLE | NH81SE 1999 BOREHOLE |
| NH81SE 1964 CORE | NH81SE 1999 CORE |
| NH81SE 1964 TRIAL PIT | NH81SE 1999 TRIAL PIT |
| NH82SE 1993 BOREHOLE | NH81SE 1999 BOREHOLE |
| NH82SE 1993 CORE | NH81SE 1999 CORE |
| NH82SE 1993 TRIAL PIT | NH81SE 1999 TRIAL PIT |
| NH82SE 2008 BOREHOLE | NH81SE 1999 TRIAL PIT |
| NH82SE 2008 CORE | |
| NH82SE 2008 TRIAL PIT | |
- GEOTECHNICAL LONG SECTION KEY:**
- | | |
|---------------------------------|-------------|
| TOPSOIL | TOPSOIL |
| MADE GROUND | MADE GROUND |
| PEAT | SAND |
| ALLUVIUM GRANULAR | GRAVEL |
| RIVER TERRACE DEPOSITS COHESIVE | SILT |
| RIVER TERRACE DEPOSITS GRANULAR | CLAY |
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| GLACIAL TILL GRANULAR | |
| ROCK | |
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- LEGEND:**
- WATER STRIKE
 - RISE TO IN 20 MINS
 - PROPOSED ROAD LEVEL
 - EXISTING GROUND LEVEL
 - SOUTHBOUND EARTHWORKS LEVEL
 - NORTHBOUND EARTHWORKS LEVEL



P01	CC	KP	KP	05/08/16
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Subtability
FINAL				B



Drawing Title
FIGURE 5.21-MAINLINE ALIGNMENT OPTION 2 BOREHOLE PLAN AND LONG SECTION (SHEET 7 OF 41)

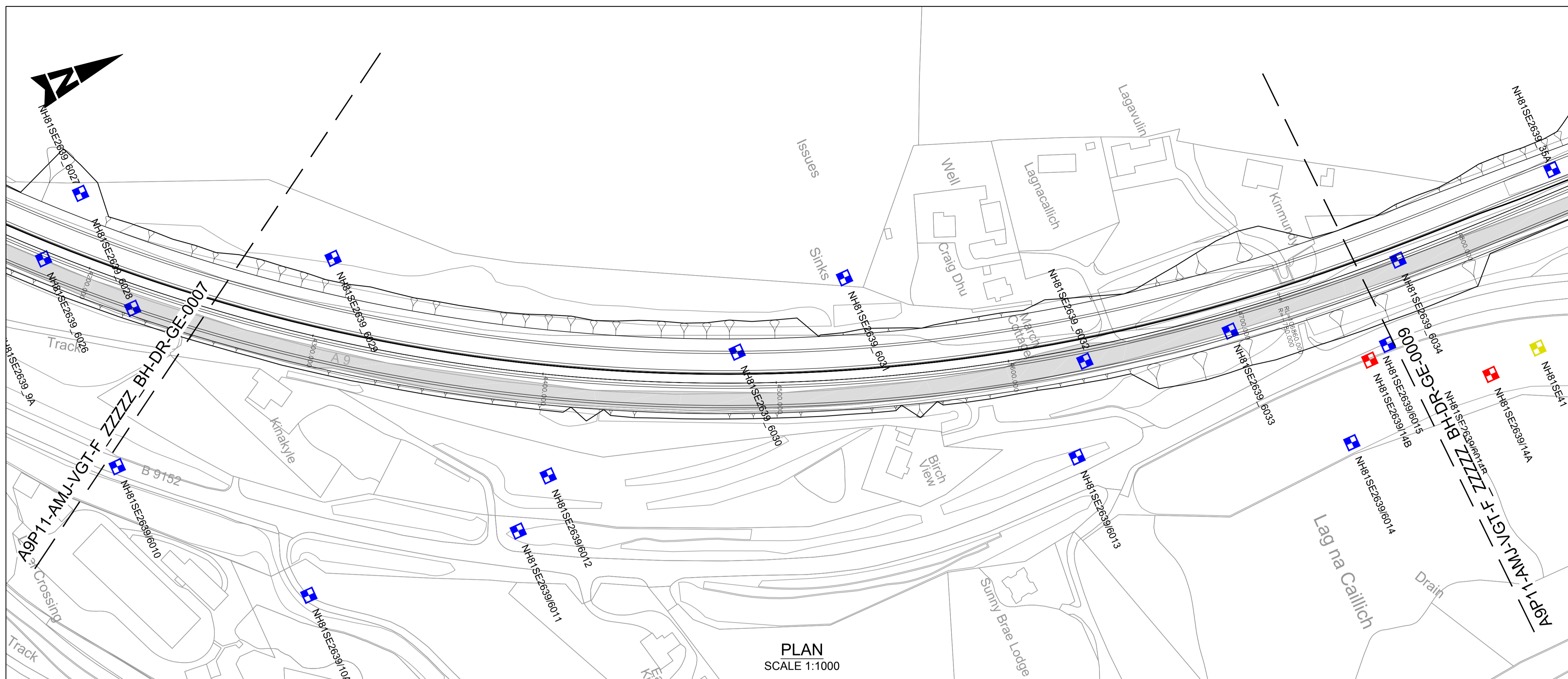
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Drawing Number	Project	Originator	Volume	Revision
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Location	Type	Role	Number	

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ELEVATION
SCALE 1:1000 H 1:200 V

100
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10
Millimetres
DO NOT SCALE



PLAN
SCALE 1:1000

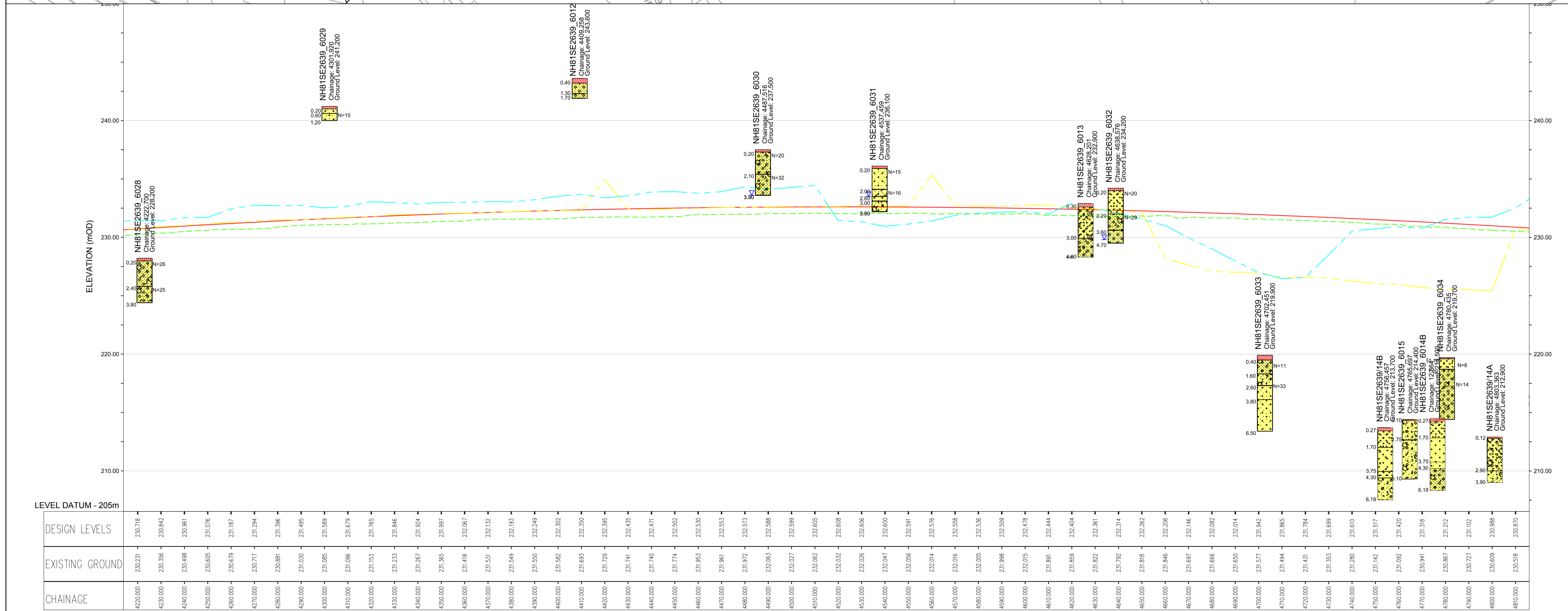
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- EXISTING A9
- BGS HISTORICAL GROUND INVESTIGATION:
- | | |
|-----------------------|-----------------------|
| NH82NW 1973 BOREHOLE | NH80NE 1978 BOREHOLE |
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| NH81SE 1964 BOREHOLE | NH81SE 1999 BOREHOLE |
| NH81SE 1964 CORE | NH81SE 1999 CORE |
| NH81SE 1964 TRIAL PIT | NH81SE 1999 TRIAL PIT |
| NH82SE 1993 BOREHOLE | NH81SE 1999 TRIAL PIT |
| NH82SE 1993 CORE | NH81SE 1999 TRIAL PIT |
| NH82SE 1993 TRIAL PIT | NH81SE 1999 TRIAL PIT |
| NH82SE 2008 BOREHOLE | NH81SE 1999 TRIAL PIT |
| NH82SE 2008 CORE | |
| NH82SE 2008 TRIAL PIT | |

- GEOTECHNICAL LONG SECTION KEY:
- | | |
|---------------------------------|-------------|
| TOPSOIL | TOPSOIL |
| MADE GROUND | MADE GROUND |
| PEAT | SAND |
| ALLUVIUM GRANULAR | GRAVEL |
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| RIVER TERRACE DEPOSITS GRANULAR | CLAY |
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ELEVATION
SCALE 1:1000 H 1:200 V

P01	CC	KP	KP	05/08/16
FIRST ISSUE				
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Drawing Status				B

Client
TRANSPORT SCOTLAND
An agency of The Scottish Government



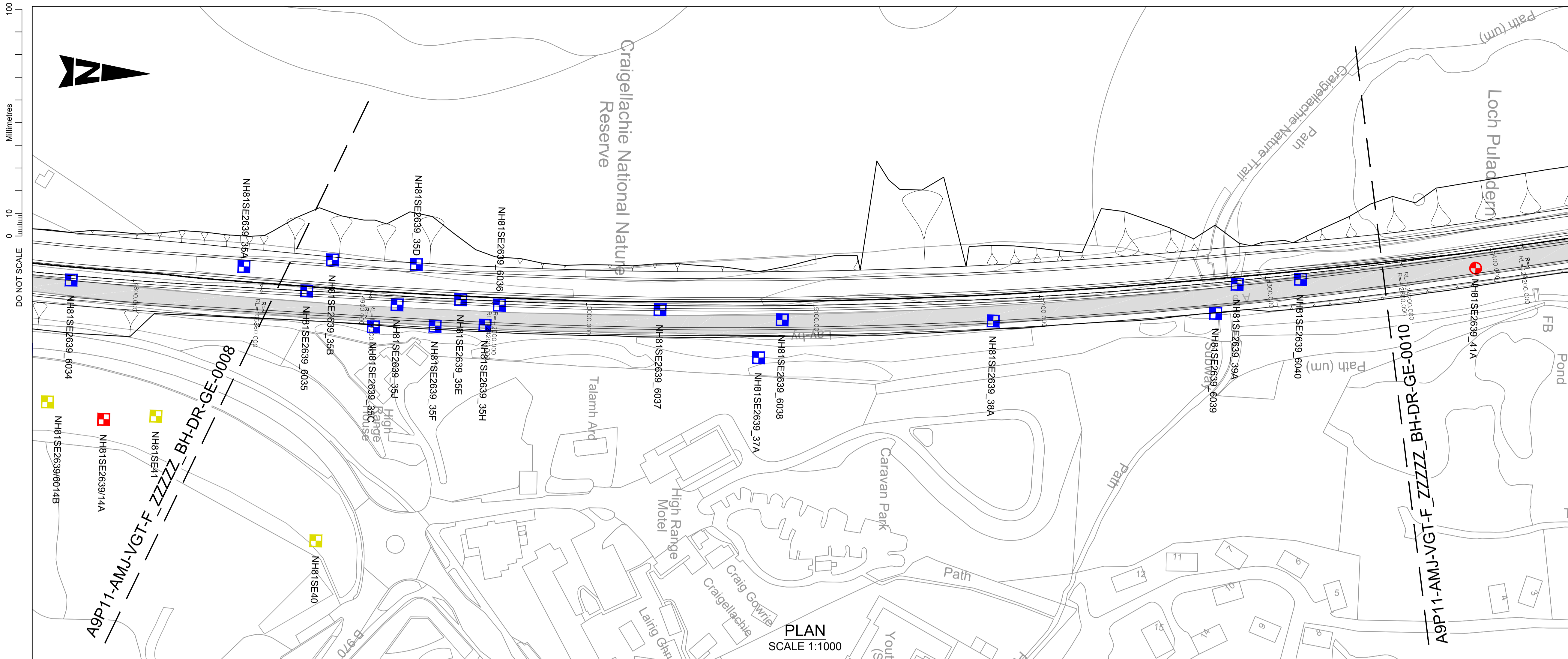
ATKINS mouchel

Drawing Title
FIGURE 5.21-MAINLINE ALIGNMENT OPTION 2 BOREHOLE PLAN AND LONG SECTION (SHEET 8 OF 41)

Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	CC	KP	KP	RG
Original Size	Date	Date	Date	Date
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Drawing Number	Project	Originator	Volume	Revision
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Location	Type	Role	Number	

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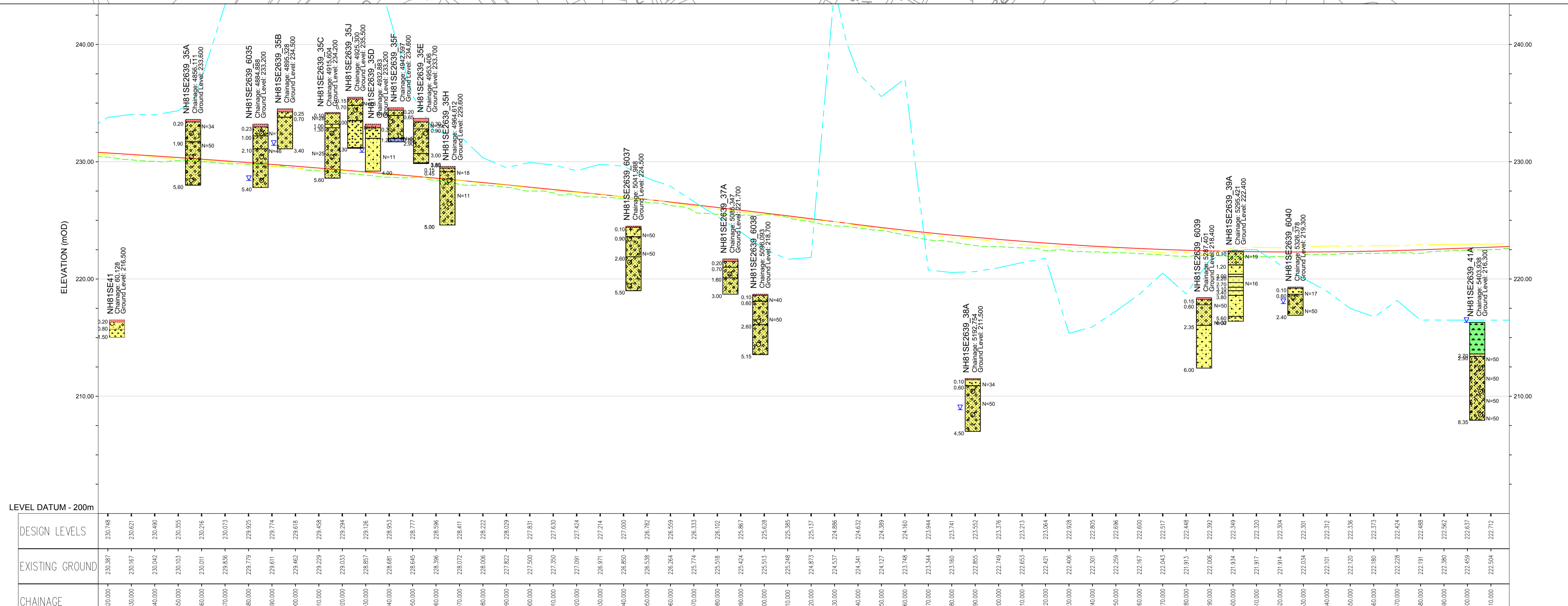
- NOTES:**
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- | | |
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| NH82SE 1993 CORE | NH81SE 1999 TRIAL PIT |
| NH82SE 1993 TRIAL PIT | NH81SE 1999 BOREHOLE |
| NH82SE 2008 BOREHOLE | NH81SE 1999 TRIAL PIT |
| NH82SE 2008 CORE | |
| NH82SE 2008 TRIAL PIT | |

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- | | |
|---------------------------------|-------------|
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- NORTHBOUND EARTHWORKS LEVEL

PLAN SCALE 1:1000



ELEVATION SCALE 1:1000 H 1:200 V

P01	CC	KP	KP	05/08/16
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B

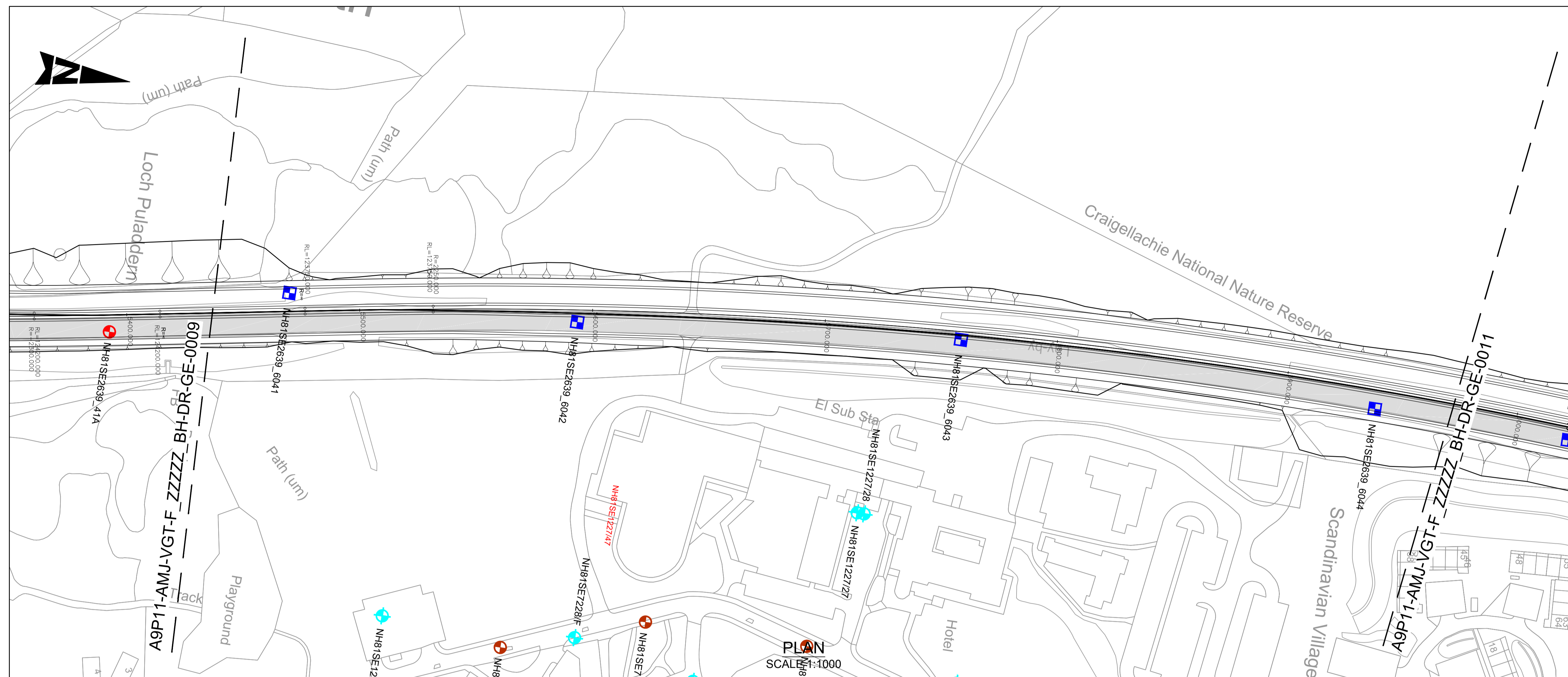
Client				
TRANSPORT SCOTLAND				
An agency of The Scottish Government				
A9 DUALLING PERTH TO INVERNESS Dalraddy to Stochd				
ATKINS mouchel				

Drawing Title				
FIGURE 5.21-MAINLINE ALIGNMENT OPTION 2 BOREHOLE PLAN AND LONG SECTION (SHEET 9 OF 41)				
Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	CC	KP	KP	RG
Original Size	Date	Date	Date	Date
A1	02/08/16	03/08/16	03/08/16	05/08/16
Drawing Number				
Project	Originator	Volume	Revision	
A9P11 - AMJ - VGT - F_ZZZZ_BH - DR - GE - 0009			P01	
Location	Type	Role	Number	

Plotted: Mar 26, 2017 - 10:36pm by: CARR6635

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100
0 10
Millimetres
DO NOT SCALE



NOTES:

- ALL LEVELS IN mAOD UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
- ALL DEPTHS SHOWN ARE IN METRES.
- HISTORICAL BOREHOLE POSITIONS AND LEVELS INFERRED FROM BGS DATABASE TO ACCURACY ± 10m.

KEY:

EXISTING A9

BGS HISTORICAL GROUND INVESTIGATION:

NH82NW 1973 BOREHOLE	NH80NE 1978 BOREHOLE
NH82NW 1973 CORE	NH80NE 1978 CORE
NH82NW 1973 TRIAL PIT	NH80NE 1978 TRIAL PIT
NH81NW 1977 BOREHOLE	NH81SE 2003 BOREHOLE
NH81NW 1977 CORE	NH81SE 2003 CORE
NH81NW 1977 TRIAL PIT	NH81SE 2003 TRIAL PIT
NH81SE 1964 BOREHOLE	NH81SE 1999 BOREHOLE
NH81SE 1964 CORE	NH81SE 1999 CORE
NH81SE 1964 TRIAL PIT	NH81SE 1999 TRIAL PIT
NH82SE 1993 BOREHOLE	NH81SE 1999 TRIAL PIT
NH82SE 1993 CORE	NH81SE 1999 TRIAL PIT
NH82SE 1993 TRIAL PIT	NH81SE 1999 TRIAL PIT
NH82SE 2008 BOREHOLE	NH81SE 1999 TRIAL PIT
NH82SE 2008 CORE	NH81SE 1999 TRIAL PIT
NH82SE 2008 TRIAL PIT	NH81SE 1999 TRIAL PIT

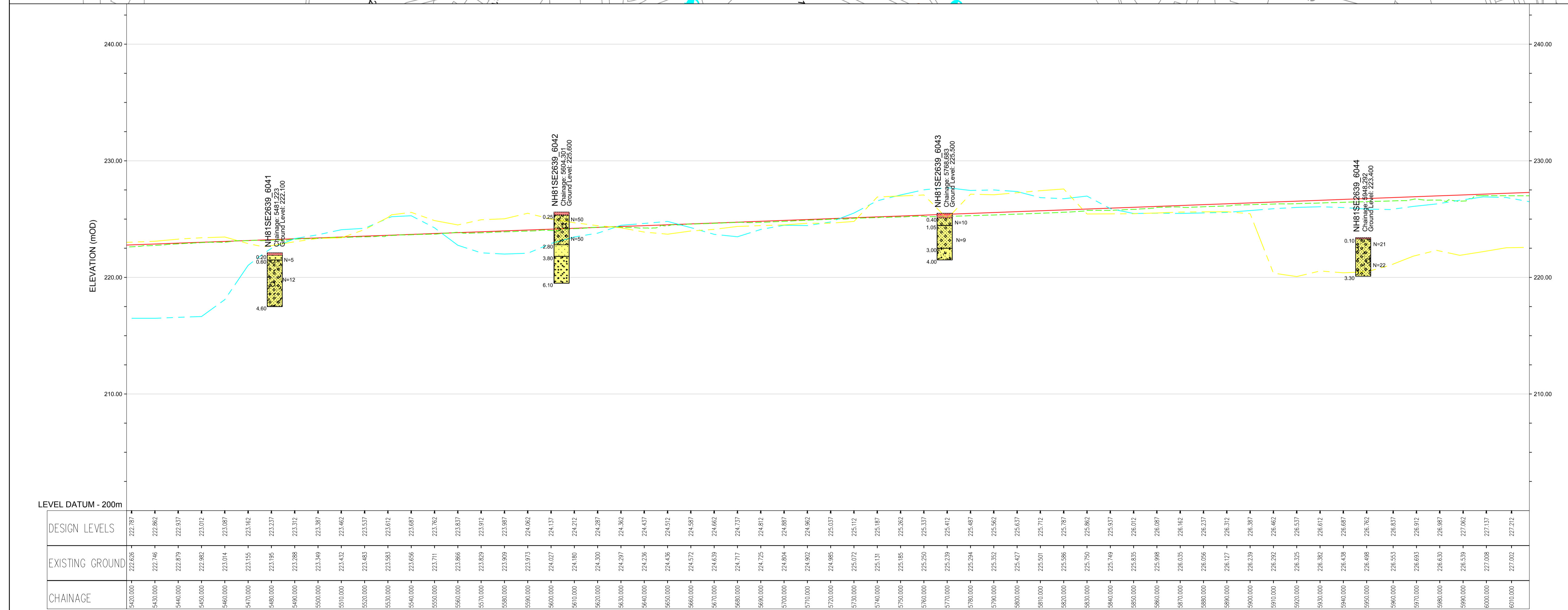
GEOTECHNICAL LONG SECTION KEY:

TOPSOIL	TOPSOIL
MADE GROUND	MADE GROUND
PEAT	SAND
ALLUVIUM GRANULAR	GRAVEL
RIVER TERRACE DEPOSITS COHESIVE	SILT
RIVER TERRACE DEPOSITS GRANULAR	CLAY
GLACIAL FLUVIAL GRANULAR	BOULDERS
GLACIAL TILL COHESIVE	BEDROCK
GLACIAL TILL GRANULAR	
ROCK	

NOTE:
COMPOSITE SOIL TYPES WILL BE SIGNIFIED BY COMBINED SYMBOLS E.G. SILTY SAND
DEPTHS (m BGL) ARE GENERALLY PRESENTED TO THE LEFT OF THE BOREHOLE LOGS ON THE GEOLOGICAL SECTION.

LEGEND:

- WATER STRIKE
- RISE TO IN 20 MINS
- PROPOSED ROAD LEVEL
- EXISTING GROUND LEVEL
- SOUTHBOUND EARTHWORKS LEVEL
- NORTHBOUND EARTHWORKS LEVEL



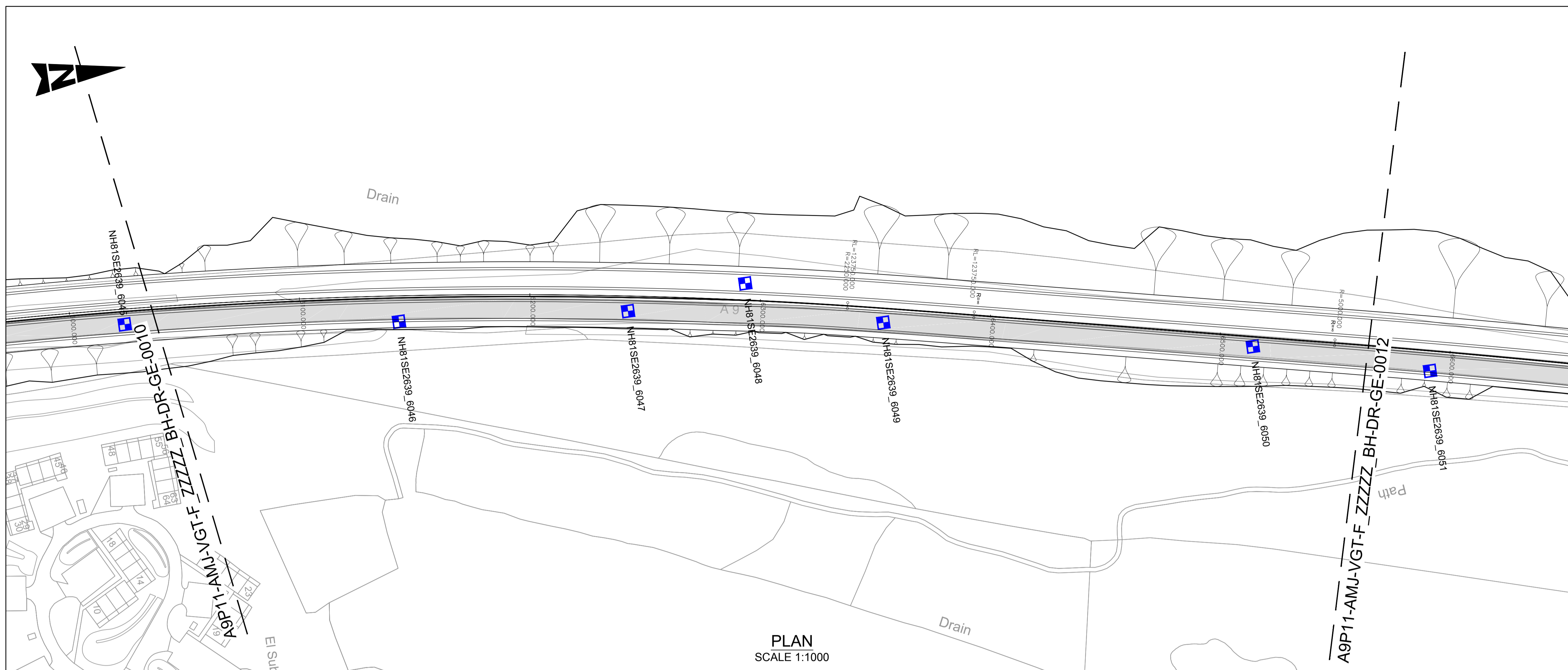
P01	CC	KP	KP	05/08/16
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Subtability
FINAL				B
Client				
 An agency of The Scottish Government				
 Dalraddy to Slouch				
Drawing Title				
FIGURE 5.21-MAINLINE ALIGNMENT OPTION 2 BOREHOLE PLAN AND LONG SECTION (SHEET 10 OF 41)				
Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	CC	KP	KP	RG
Original Size	Date	Date	Date	Date
A1	02/08/16	03/08/16	03/08/16	05/08/16
Drawing Number				
Project	Originator	Volume	Revision	
A9P11 - AMJ - VGT - F_ZZZZ_BH - DR - GE - 0010			P01	
Location	Type	Role	Number	

Plotfile: Mar 26, 2017 - 10:51pm by: CARR6655

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ELEVATION
SCALE 1:1000 H 1:200 V

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Millimetres
DO NOT SCALE



PLAN
SCALE 1:1000

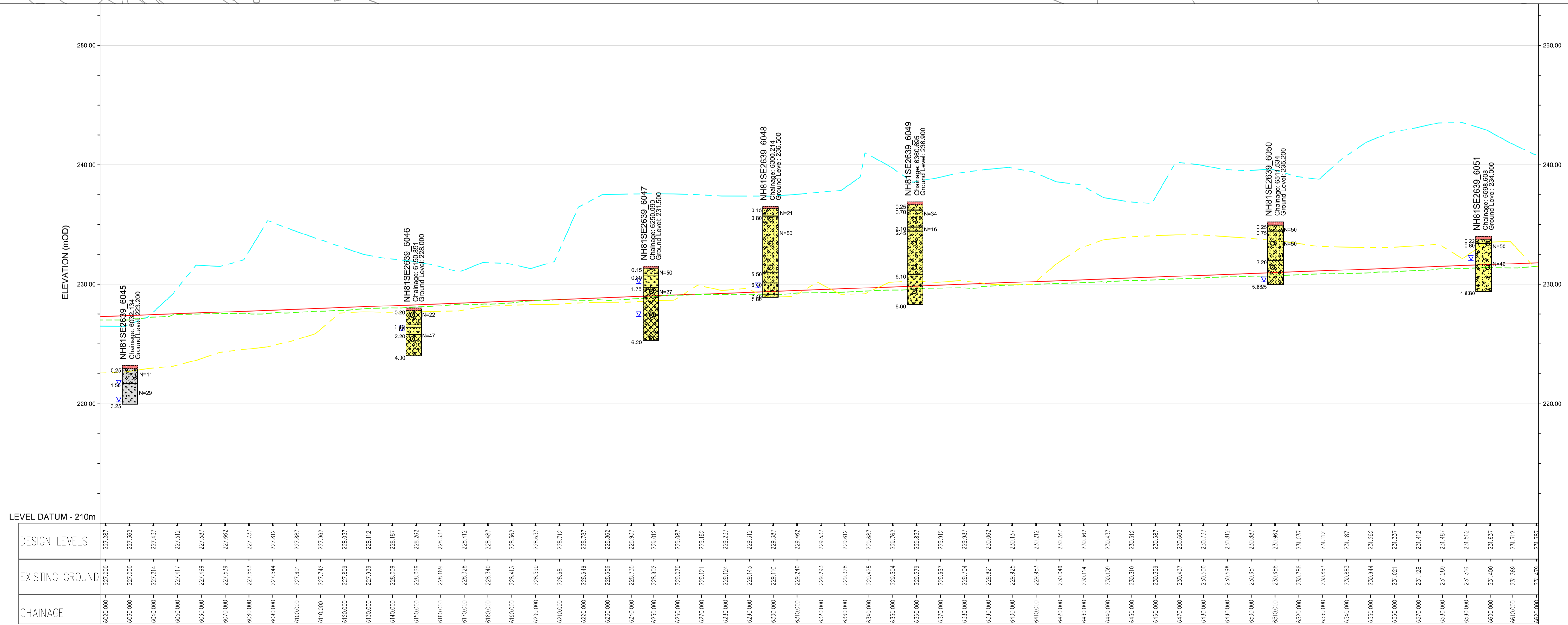
- NOTES:
- ALL LEVELS IN mAOD UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
 - ALL DEPTHS SHOWN ARE IN METRES.
 - HISTORICAL BOREHOLE POSITIONS AND LEVELS INFERRED FROM BGS DATABASE TO ACCURACY ± 10m.

- KEY:
- EXISTING A9
- BGS HISTORICAL GROUND INVESTIGATION:
- | | |
|-----------------------|-----------------------|
| NH82NW 1973 BOREHOLE | NH80NE 1978 BOREHOLE |
| NH82NW 1973 CORE | NH80NE 1978 CORE |
| NH82NW 1973 TRIAL PIT | NH80NE 1978 TRIAL PIT |
| NH81NW 1977 BOREHOLE | NH81SE 2003 BOREHOLE |
| NH81NW 1977 CORE | NH81SE 2003 CORE |
| NH81NW 1977 TRIAL PIT | NH81SE 2003 TRIAL PIT |
| NH81SE 1964 BOREHOLE | NH81SE 1999 BOREHOLE |
| NH81SE 1964 CORE | NH81SE 1999 CORE |
| NH81SE 1964 TRIAL PIT | NH81SE 1999 TRIAL PIT |
| NH82SE 1993 BOREHOLE | NH81SE 1999 BOREHOLE |
| NH82SE 1993 CORE | NH81SE 1999 CORE |
| NH82SE 1993 TRIAL PIT | NH81SE 1999 TRIAL PIT |
| NH82SE 2008 BOREHOLE | NH81SE 1999 TRIAL PIT |
| NH82SE 2008 CORE | |
| NH82SE 2008 TRIAL PIT | |

- GEOTECHNICAL LONG SECTION KEY:
- | | |
|---------------------------------|-------------|
| TOPSOIL | TOPSOIL |
| MADE GROUND | MADE GROUND |
| PEAT | SAND |
| ALLUVIUM GRANULAR | GRAVEL |
| RIVER TERRACE DEPOSITS COHESIVE | SILT |
| RIVER TERRACE DEPOSITS GRANULAR | CLAY |
| GLACIAL FLUVIAL GRANULAR | BOULDERS |
| GLACIAL TILL COHESIVE | BEDROCK |
| GLACIAL TILL GRANULAR | |
| ROCK | |

NOTE:
COMPOSITE SOIL TYPES WILL BE SIGNIFIED BY COMBINED SYMBOLS E.G. SILTY SAND
DEPTHS (m BGL) ARE GENERALLY PRESENTED TO THE LEFT OF THE BOREHOLE LOGS ON THE GEOLOGICAL SECTION.

- WATER STRIKE
- RISE TO IN 20 MINS
- PROPOSED ROAD LEVEL
- EXISTING GROUND LEVEL
- SOUTHBOUND EARTHWORKS LEVEL
- NORTHBOUND EARTHWORKS LEVEL



ELEVATION
SCALE 1:1000 H 1:200 V

P01	CC	KP	KP	05/08/16
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Subtability
FINAL				B

Client				
 An agency of The Scottish Government				
 Dalraddy to Slouch				

Drawing Title				
FIGURE 5.21-MAINLINE ALIGNMENT OPTION 2 BOREHOLE PLAN AND LONG SECTION (SHEET 11 OF 41)				
Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	CC	KP	KP	RG
Original Size	Date	Date	Date	Date
A1	02/08/16	03/08/16	03/08/16	05/08/16
Drawing Number				
Project	Originator	Volume	Revision	
A9P11 - AMJ - VGT - F_ZZZZ_BH - DR - GE - 0011			P01	
Location	Type	Role	Number	

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Millimetres
DO NOT SCALE



NOTES:

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- ALL DEPTHS SHOWN ARE IN METRES.
- HISTORICAL BOREHOLE POSITIONS AND LEVELS INFERRED FROM BGS DATABASE TO ACCURACY ± 10m.

KEY:

EXISTING A9

BGS HISTORICAL GROUND INVESTIGATION:

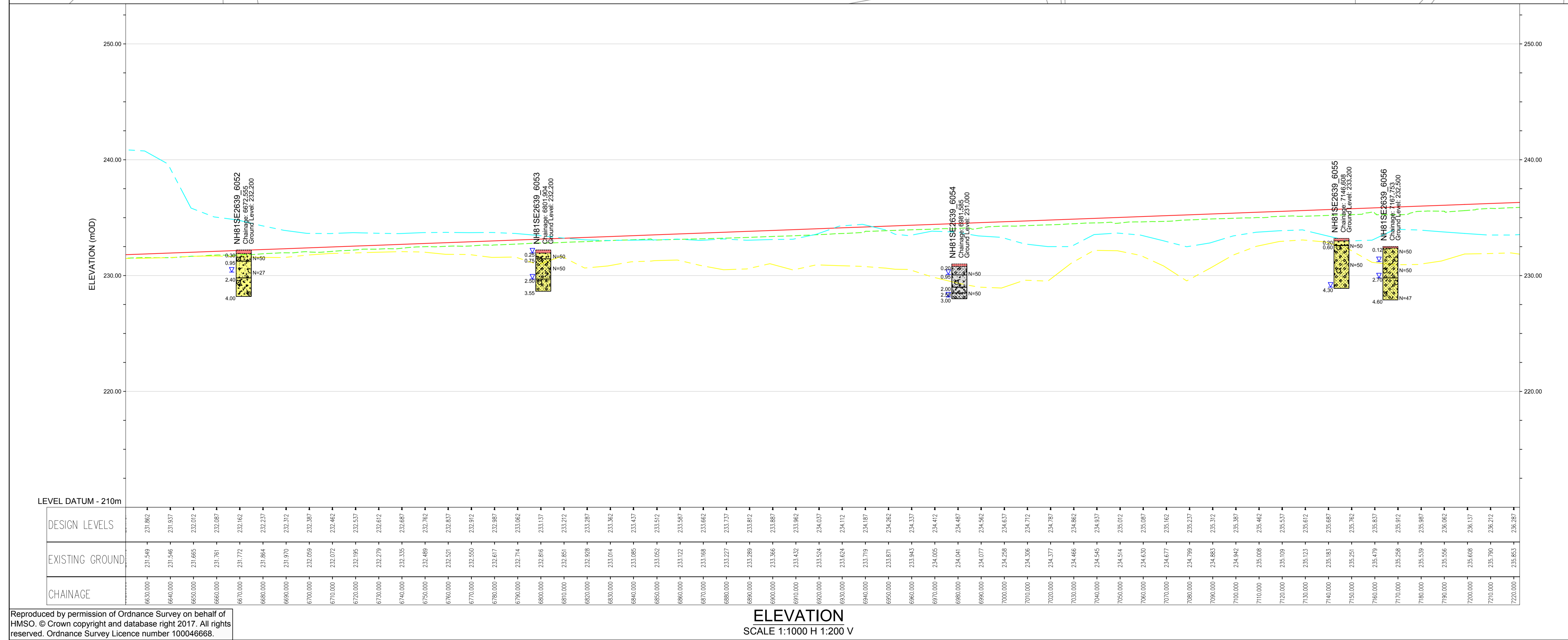
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NH82NW 1973 CORE	NH80NE 1978 CORE
NH82NW 1973 TRIAL PIT	NH80NE 1978 TRIAL PIT
NH91NW 1977 BOREHOLE	NH81SE 2003 BOREHOLE
NH91NW 1977 CORE	NH81SE 2003 CORE
NH91NW 1977 TRIAL PIT	NH81SE 2003 TRIAL PIT
NH81SE 1964 BOREHOLE	NH81SE 1999 BOREHOLE
NH81SE 1964 CORE	NH81SE 1999 CORE
NH81SE 1964 TRIAL PIT	NH81SE 1999 TRIAL PIT
NH82SE 1993 BOREHOLE	NH81SE 1999 BOREHOLE
NH82SE 1993 CORE	NH81SE 1999 CORE
NH82SE 1993 TRIAL PIT	NH81SE 1999 TRIAL PIT
NH82SE 2008 BOREHOLE	NH81SE 1999 TRIAL PIT
NH82SE 2008 CORE	
NH82SE 2008 TRIAL PIT	

GEOTECHNICAL LONG SECTION KEY:

TOPSOIL	TOPSOIL
MADE GROUND	MADE GROUND
PEAT	SAND
ALLUVIUM GRANULAR	GRAVEL
RIVER TERRACE DEPOSITS COHESIVE	SILT
RIVER TERRACE DEPOSITS GRANULAR	CLAY
GLACIAL FLUVIAL GRANULAR	BOULDERS
GLACIAL TILL COHESIVE	BEDROCK
GLACIAL TILL GRANULAR	
ROCK	

NOTE:
COMPOSITE SOIL TYPES WILL BE SIGNIFIED BY COMBINED SYMBOLS E.G. SILTY SAND
DEPTHS (m BGL) ARE GENERALLY PRESENTED TO THE LEFT OF THE BOREHOLE LOGS ON THE GEOLOGICAL SECTION.

WATER STRIKE
 RISE TO IN 20 MINS
 PROPOSED ROAD LEVEL
 EXISTING GROUND LEVEL
 SOUTHBOUND EARTHWORKS LEVEL
 NORTHBOUND EARTHWORKS LEVEL



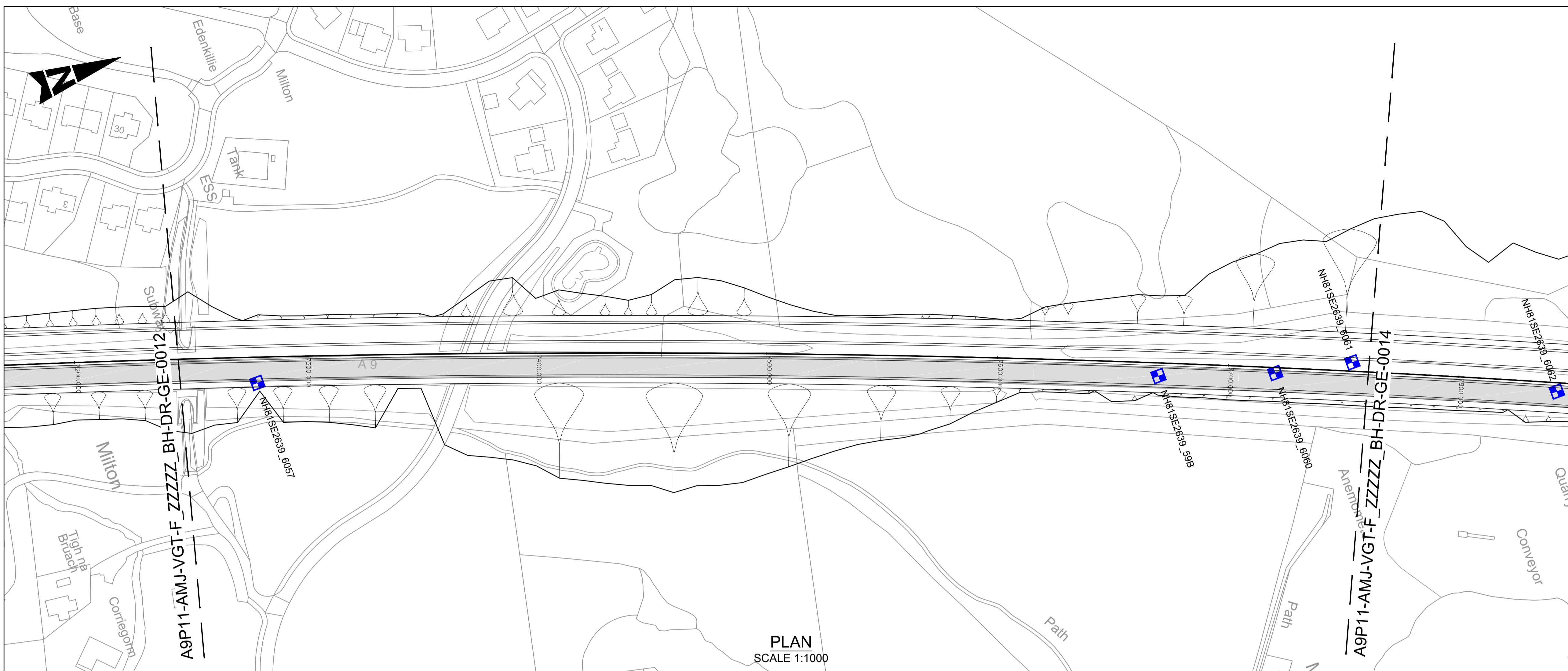
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FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status	FINAL			Suitability
				B
Client				
 An agency of The Scottish Government				
 Dalraddy to Stochd				
Drawing Title				
FIGURE 5.21-MAINLINE ALIGNMENT OPTION 2 BOREHOLE PLAN AND LONG SECTION (SHEET 12 OF 41)				
Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	CC	KP	KP	RG
Original Size	Date	Date	Date	Date
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Project	Originator	Volume	Revision	
A9P11 - AMJ - VGT - F_ZZZZ_BH - DR - GE - 0012			P01	
Location	Type	Role	Number	

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ELEVATION
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Millimetres
DO NOT SCALE

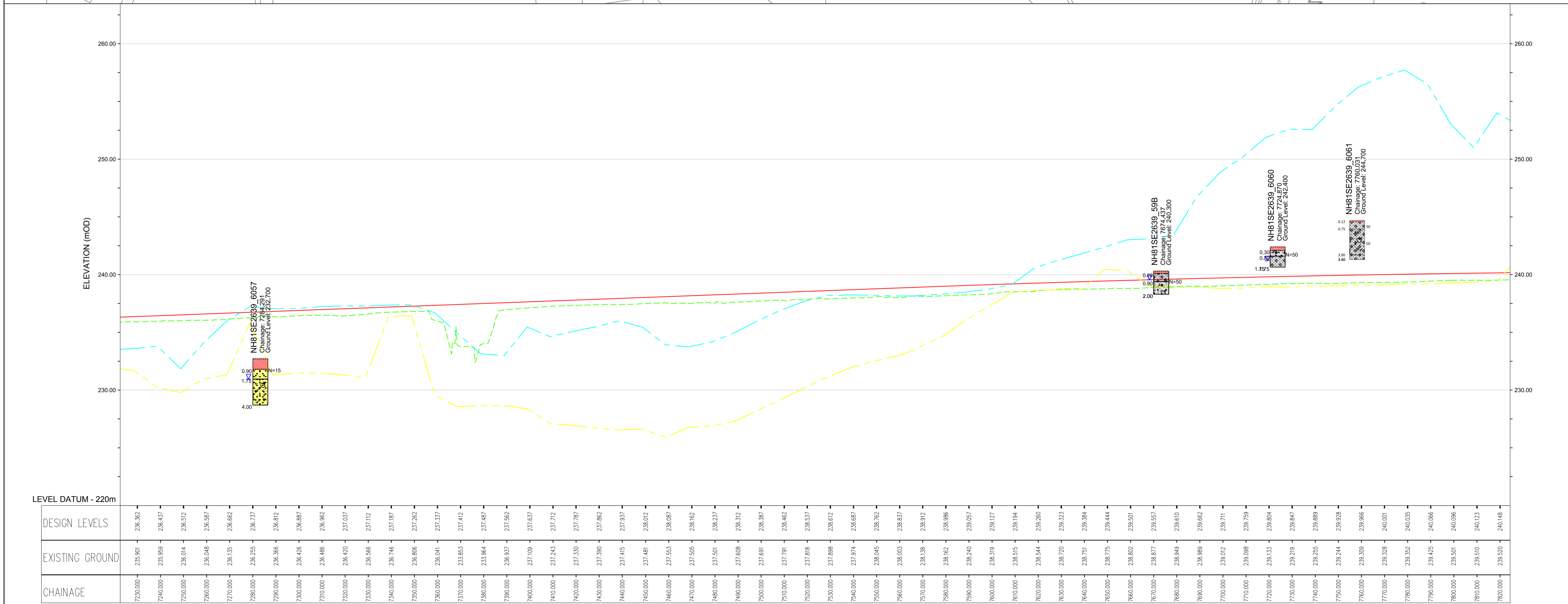


PLAN
SCALE 1:1000

- NOTES:**
- ALL LEVELS IN mAOD UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
 - ALL DEPTHS SHOWN ARE IN METRES.
 - HISTORICAL BOREHOLE POSITIONS AND LEVELS INFERRED FROM BGS DATABASE TO ACCURACY ± 10m.
- KEY:**
- EXISTING A9
- BGS HISTORICAL GROUND INVESTIGATION:**
- | | |
|-----------------------|-----------------------|
| NH82NW 1973 BOREHOLE | NH80NE 1978 BOREHOLE |
| NH82NW 1973 CORE | NH80NE 1978 CORE |
| NH82NW 1973 TRIAL PIT | NH80NE 1978 TRIAL PIT |
| NH91NW 1977 BOREHOLE | NH81SE 2003 BOREHOLE |
| NH91NW 1977 CORE | NH81SE 2003 CORE |
| NH91NW 1977 TRIAL PIT | NH81SE 2003 TRIAL PIT |
| NH81SE 1964 BOREHOLE | NH81SE 1999 BOREHOLE |
| NH81SE 1964 CORE | NH81SE 1999 CORE |
| NH81SE 1964 TRIAL PIT | NH81SE 1999 TRIAL PIT |
| NH82SE 1993 BOREHOLE | NH81SE 1999 BOREHOLE |
| NH82SE 1993 CORE | NH81SE 1999 CORE |
| NH82SE 1993 TRIAL PIT | NH81SE 1999 TRIAL PIT |
| NH82SE 2008 BOREHOLE | NH82SE 2008 CORE |
| NH82SE 2008 CORE | NH82SE 2008 TRIAL PIT |
| NH82SE 2008 TRIAL PIT | |

- GEOTECHNICAL LONG SECTION KEY:**
- | | |
|---------------------------------|-------------|
| TOPSOIL | TOPSOIL |
| MADE GROUND | MADE GROUND |
| PEAT | SAND |
| ALLUVIUM GRANULAR | GRAVEL |
| RIVER TERRACE DEPOSITS COHESIVE | SILT |
| RIVER TERRACE DEPOSITS GRANULAR | CLAY |
| GLACIAL FLUVIAL GRANULAR | BOULDERS |
| GLACIAL TILL COHESIVE | BEDROCK |
| GLACIAL TILL GRANULAR | |
| ROCK | |

- NOTE:**
COMPOSITE SOIL TYPES WILL BE SIGNIFIED BY COMBINED SYMBOLS E.G. SILTY SAND
DEPTHS (m BGL) ARE GENERALLY PRESENTED TO THE LEFT OF THE BOREHOLE LOGS ON THE GEOLOGICAL SECTION.
- WATER STRIKE
 - RISE TO IN 20 MINS
 - PROPOSED ROAD LEVEL
 - EXISTING GROUND LEVEL
 - SOUTHBOUND EARTHWORKS LEVEL
 - NORTHBOUND EARTHWORKS LEVEL



ELEVATION
SCALE 1:1000 H 1:200 V

P01	CC	KP	KP	05/08/16
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				Subtality
FINAL				B

Client				
 An agency of The Scottish Government				
 Dalraddy to Slouch				

Drawing Title				
FIGURE 5.21-MAINLINE ALIGNMENT OPTION 2 BOREHOLE PLAN AND LONG SECTION (SHEET 13 OF 41)				
Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	CC	KP	KP	RG
Original Size	Date	Date	Date	Date
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Project				P01
Originator				
Volume				
Location				
Type				
Role				
Number				

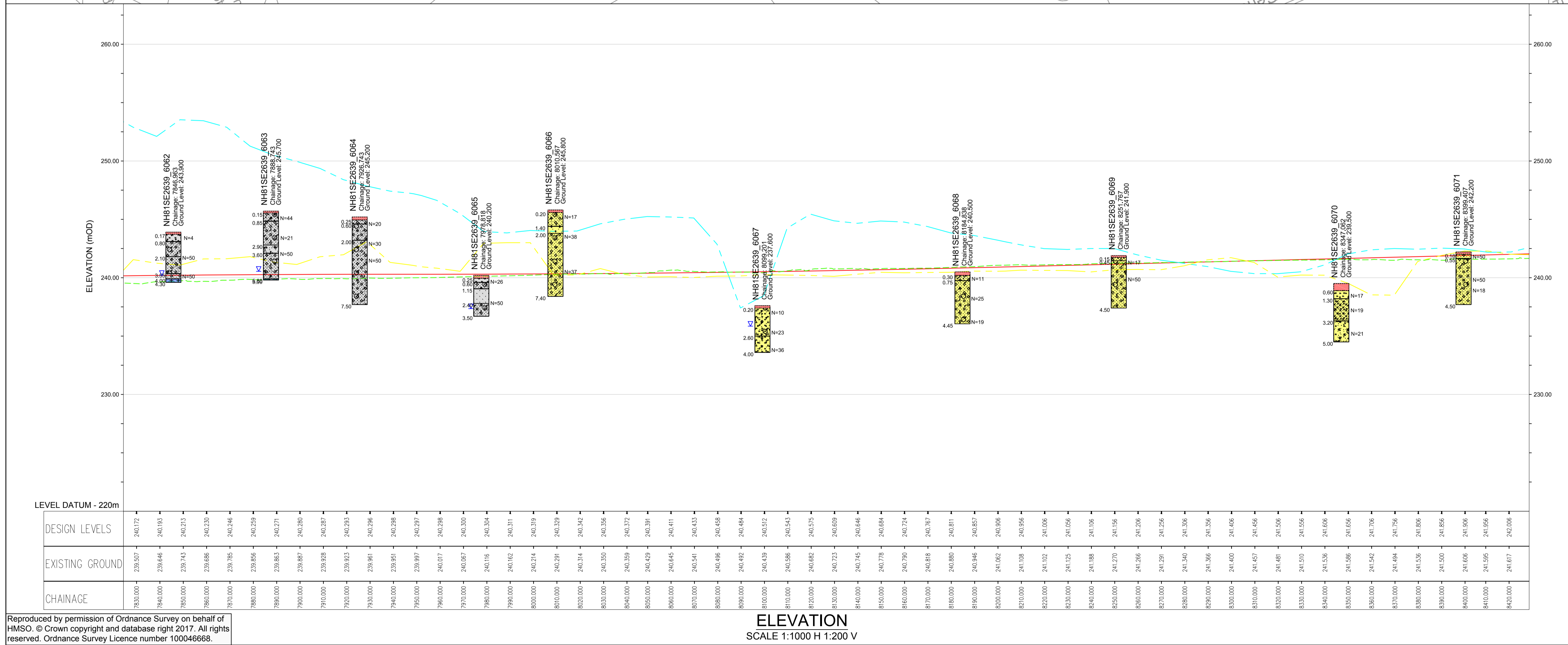
Plotted: Mar 26, 2017 - 11:30pm by: CARR6655

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- NOTES:**
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 - ALL DEPTHS SHOWN ARE IN METRES.
 - HISTORICAL BOREHOLE POSITIONS AND LEVELS INFERRED FROM BGS DATABASE TO ACCURACY ± 10m.
- KEY:**
- EXISTING A9
- BGS HISTORICAL GROUND INVESTIGATION:**
- | | |
|-----------------------|-----------------------|
| NH82NW 1973 BOREHOLE | NH80NE 1978 BOREHOLE |
| NH82NW 1973 CORE | NH80NE 1978 CORE |
| NH82NW 1973 TRIAL PIT | NH80NE 1978 TRIAL PIT |
| NH81NW 1977 BOREHOLE | NH81SE 2003 BOREHOLE |
| NH81NW 1977 CORE | NH81SE 2003 CORE |
| NH81NW 1977 TRIAL PIT | NH81SE 2003 TRIAL PIT |
| NH81SE 1964 BOREHOLE | NH81SE 1999 BOREHOLE |
| NH81SE 1964 CORE | NH81SE 1999 CORE |
| NH81SE 1964 TRIAL PIT | NH81SE 1999 TRIAL PIT |
| NH82SE 1993 BOREHOLE | NH81SE 1999 BOREHOLE |
| NH82SE 1993 CORE | NH81SE 1999 CORE |
| NH82SE 1993 TRIAL PIT | NH81SE 1999 TRIAL PIT |
| NH82SE 2008 BOREHOLE | NH81SE 1999 TRIAL PIT |
| NH82SE 2008 CORE | |
| NH82SE 2008 TRIAL PIT | |
- GEOTECHNICAL LONG SECTION KEY:**
- | | |
|---------------------------------|-------------|
| TOPSOIL | TOPSOIL |
| MADE GROUND | MADE GROUND |
| PEAT | SAND |
| ALLUVIUM GRANULAR | GRAVEL |
| RIVER TERRACE DEPOSITS COHESIVE | SILT |
| RIVER TERRACE DEPOSITS GRANULAR | CLAY |
| GLACIAL FLUVIAL GRANULAR | BOULDERS |
| GLACIAL TILL COHESIVE | BEDROCK |
| GLACIAL TILL GRANULAR | |
| ROCK | |
- NOTE:**
COMPOSITE SOIL TYPES WILL BE SIGNIFIED BY COMBINED SYMBOLS E.G. SILTY SAND
DEPTHS (m BGL) ARE GENERALLY PRESENTED TO THE LEFT OF THE BOREHOLE LOGS ON THE GEOLOGICAL SECTION.
- LEGEND:**
- WATER STRIKE
 - RISE TO IN 20 MINS
 - PROPOSED ROAD LEVEL
 - EXISTING GROUND LEVEL
 - SOUTHBOUND EARTHWORKS LEVEL
 - NORTHBOUND EARTHWORKS LEVEL



P01	CC	KP	KP	05/08/16
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B



Drawing Title
FIGURE 5.21-MAINLINE ALIGNMENT OPTION 2 BOREHOLE PLAN AND LONG SECTION (SHEET 14 OF 41)

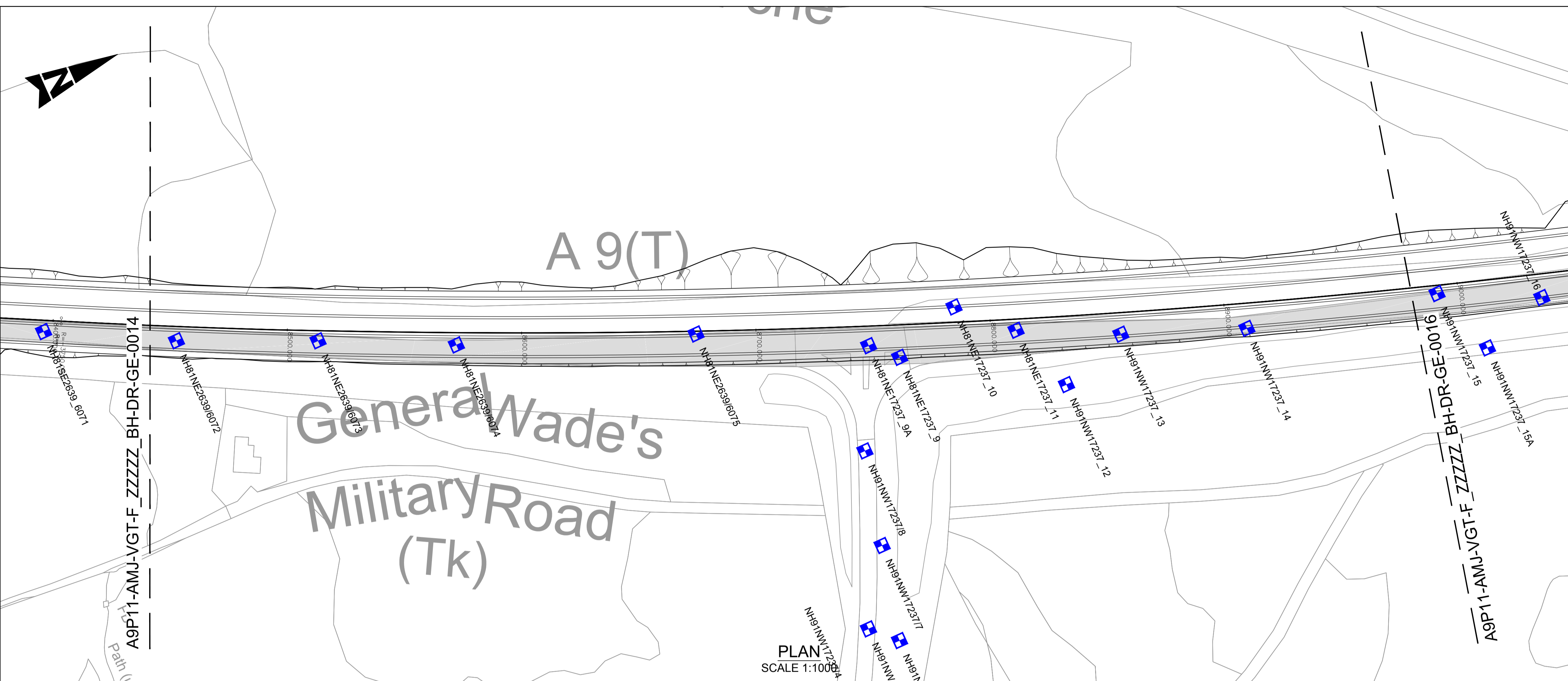
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Original Size	Date	Date	Date	Date
A1	02/08/16	03/08/16	03/08/16	05/08/16
Drawing Number	Project	Originator	Volume	Revision
	A9P11 - AMJ - VGT - F_ZZZZ_BH - DR - GE - 0014			P01
Location	Type	Role	Number	

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ELEVATION SCALE 1:1000 H 1:200 V

100
0 10
Millimetres
DO NOT SCALE



NOTES:

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- ALL DEPTHS SHOWN ARE IN METRES.
- HISTORICAL BOREHOLE POSITIONS AND LEVELS INFERRED FROM BGS DATABASE TO ACCURACY ± 10m.

KEY:

- EXISTING A9

BGS HISTORICAL GROUND INVESTIGATION:

NH82NW 1973 BOREHOLE	NH80NE 1978 BOREHOLE
NH82NW 1973 CORE	NH80NE 1978 CORE
NH82NW 1973 TRIAL PIT	NH80NE 1978 TRIAL PIT
NH81NW 1977 BOREHOLE	NH81SE 2003 BOREHOLE
NH81NW 1977 CORE	NH81SE 2003 TRIAL PIT
NH81NW 1977 TRIAL PIT	NH81SE 1999 BOREHOLE
NH81SE 1964 BOREHOLE	NH81SE 1999 TRIAL PIT
NH81SE 1964 CORE	NH81SE 1999 BOREHOLE
NH82SE 1993 BOREHOLE	NH81SE 1999 TRIAL PIT
NH82SE 1993 CORE	NH81SE 1999 BOREHOLE
NH82SE 1993 TRIAL PIT	NH81SE 1999 CORE
NH82SE 2008 BOREHOLE	NH81SE 1999 TRIAL PIT
NH82SE 2008 CORE	NH81SE 1999 BOREHOLE
NH82SE 2008 TRIAL PIT	NH81SE 1999 TRIAL PIT

GEOTECHNICAL LONG SECTION KEY:

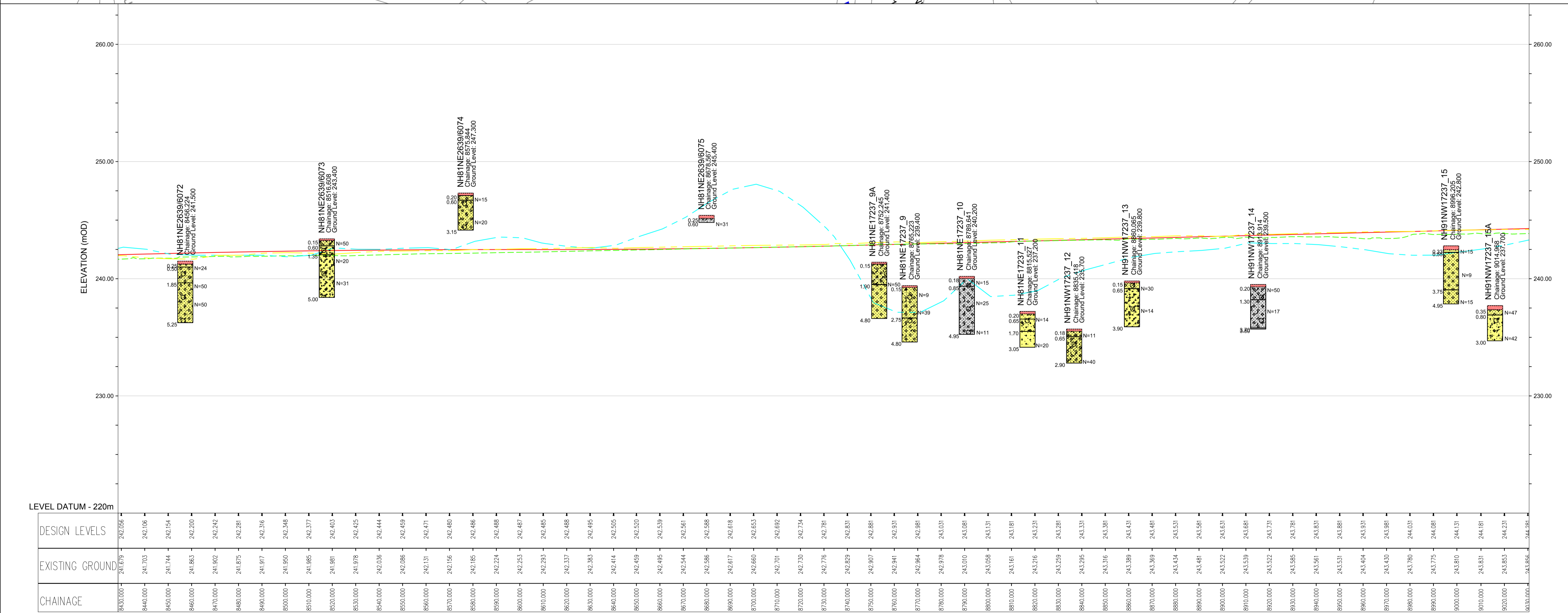
TOPSOIL	TOPSOIL
MADE GROUND	MADE GROUND
PEAT	SAND
ALLUVIUM GRANULAR	GRAVEL
RIVER TERRACE DEPOSITS COHESIVE	SILT
RIVER TERRACE DEPOSITS GRANULAR	CLAY
GLACIAL FLUVIAL GRANULAR	BOULDERS
GLACIAL TILL COHESIVE	BEDROCK
GLACIAL TILL GRANULAR	
ROCK	

NOTE:
COMPOSITE SOIL TYPES WILL BE SIGNIFIED BY COMBINED SYMBOLS E.G. SILTY SAND
DEPTHS (m BGL) ARE GENERALLY PRESENTED TO THE LEFT OF THE BOREHOLE LOGS ON THE GEOLOGICAL SECTION.

LEGEND:

- WATER STRIKE
- RISE TO IN 20 MINS
- PROPOSED ROAD LEVEL
- EXISTING GROUND LEVEL
- SOUTHBOUND EARTHWORKS LEVEL
- NORTHBOUND EARTHWORKS LEVEL

PLAN
SCALE 1:1000



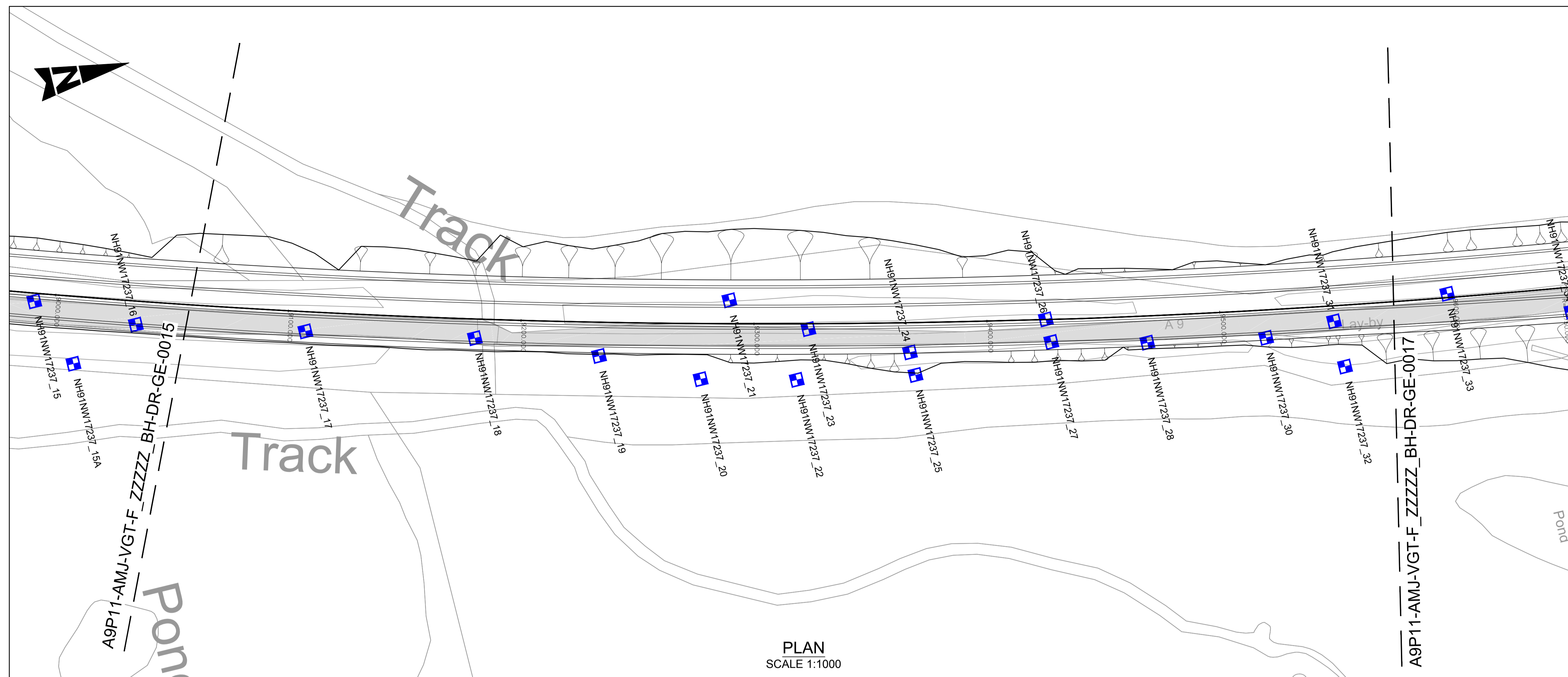
P01	CC	KP	KP	05/08/16
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status: FINAL				Subtability: B
Client: TRANSPORT SCOTLAND An agency of The Scottish Government				
Drawing Title: FIGURE 5.21-MAINLINE ALIGNMENT OPTION 2 BOREHOLE PLAN AND LONG SECTION (SHEET 15 OF 41)				
Scale: AS SHOWN	Designed / Drawn: CC	Checked: KP	Approved: KP	Authorised: RG
Original Size: A1	Date: 02/08/16	Date: 03/08/16	Date: 03/08/16	Date: 05/08/16
Drawing Number: Project: A9P11 - AMJ - VGT - F_ZZZZ_BH - DR - GE - 0015				Revision: P01
Location:	Type:	Role:	Number:	

Plotted: Mar 26, 2017 - 11:52pm by: CARR6655

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ELEVATION
SCALE 1:1000 H 1:200 V

100
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Millimetres
DO NOT SCALE



NOTES:

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- ALL DEPTHS SHOWN ARE IN METRES.
- HISTORICAL BOREHOLE POSITIONS AND LEVELS INFERRED FROM BGS DATABASE TO ACCURACY ± 10m.

KEY:

- EXISTING A9

BGS HISTORICAL GROUND INVESTIGATION:

NH82NW 1973 BOREHOLE	NH80NE 1978 BOREHOLE
NH82NW 1973 CORE	NH80NE 1978 CORE
NH82NW 1973 TRIAL PIT	NH81SE 2003 BOREHOLE
NH91NW 1977 BOREHOLE	NH81SE 2003 TRIAL PIT
NH91NW 1977 CORE	NH81SE 1999 BOREHOLE
NH91NW 1977 TRIAL PIT	NH81SE 1999 CORE
NH81SE 1964 BOREHOLE	NH81SE 1999 TRIAL PIT
NH81SE 1964 CORE	NH81SE 1999 BOREHOLE
NH82SE 1993 BOREHOLE	NH81SE 1999 CORE
NH82SE 1993 CORE	NH81SE 1999 TRIAL PIT
NH82SE 1993 TRIAL PIT	NH81SE 1999 BOREHOLE
NH82SE 2008 BOREHOLE	NH81SE 1999 CORE
NH82SE 2008 CORE	NH81SE 1999 TRIAL PIT
NH82SE 2008 TRIAL PIT	

GEOTECHNICAL LONG SECTION KEY:

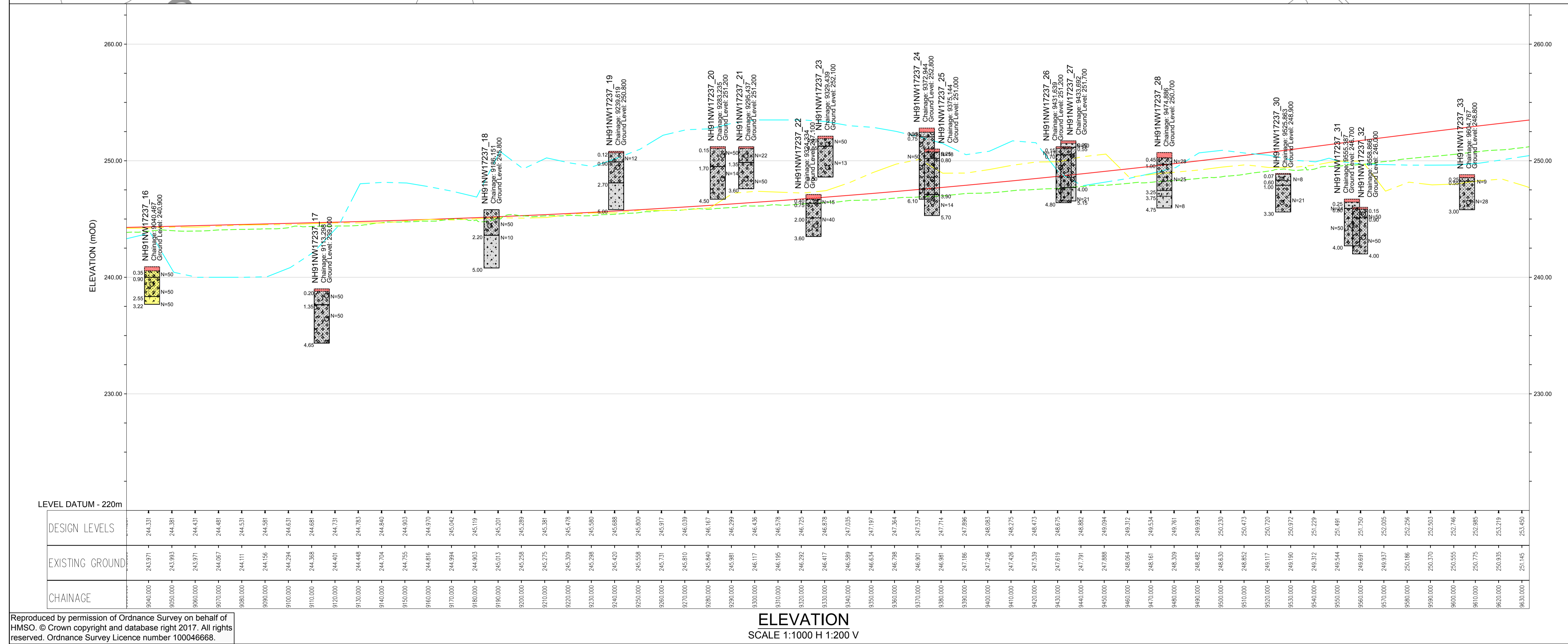
TOPSOIL	TOPSOIL
MADE GROUND	MADE GROUND
PEAT	SAND
ALLUVIUM GRANULAR	GRAVEL
RIVER TERRACE DEPOSITS COHESIVE	SILT
RIVER TERRACE DEPOSITS GRANULAR	CLAY
GLACIAL FLUVIAL GRANULAR	BOULDERS
GLACIAL TILL COHESIVE	BEDROCK
GLACIAL TILL GRANULAR	
ROCK	

NOTE:
COMPOSITE SOIL TYPES WILL BE SIGNIFIED BY COMBINED SYMBOLS E.G. SILTY SAND
DEPTHS (m BGL) ARE GENERALLY PRESENTED TO THE LEFT OF THE BOREHOLE LOGS ON THE GEOLOGICAL SECTION.

LEGEND:

- WATER STRIKE
- RISE TO IN 20 MINS
- PROPOSED ROAD LEVEL
- EXISTING GROUND LEVEL
- SOUTHBOUND EARTHWORKS LEVEL
- NORTHBOUND EARTHWORKS LEVEL

PLAN
SCALE 1:1000



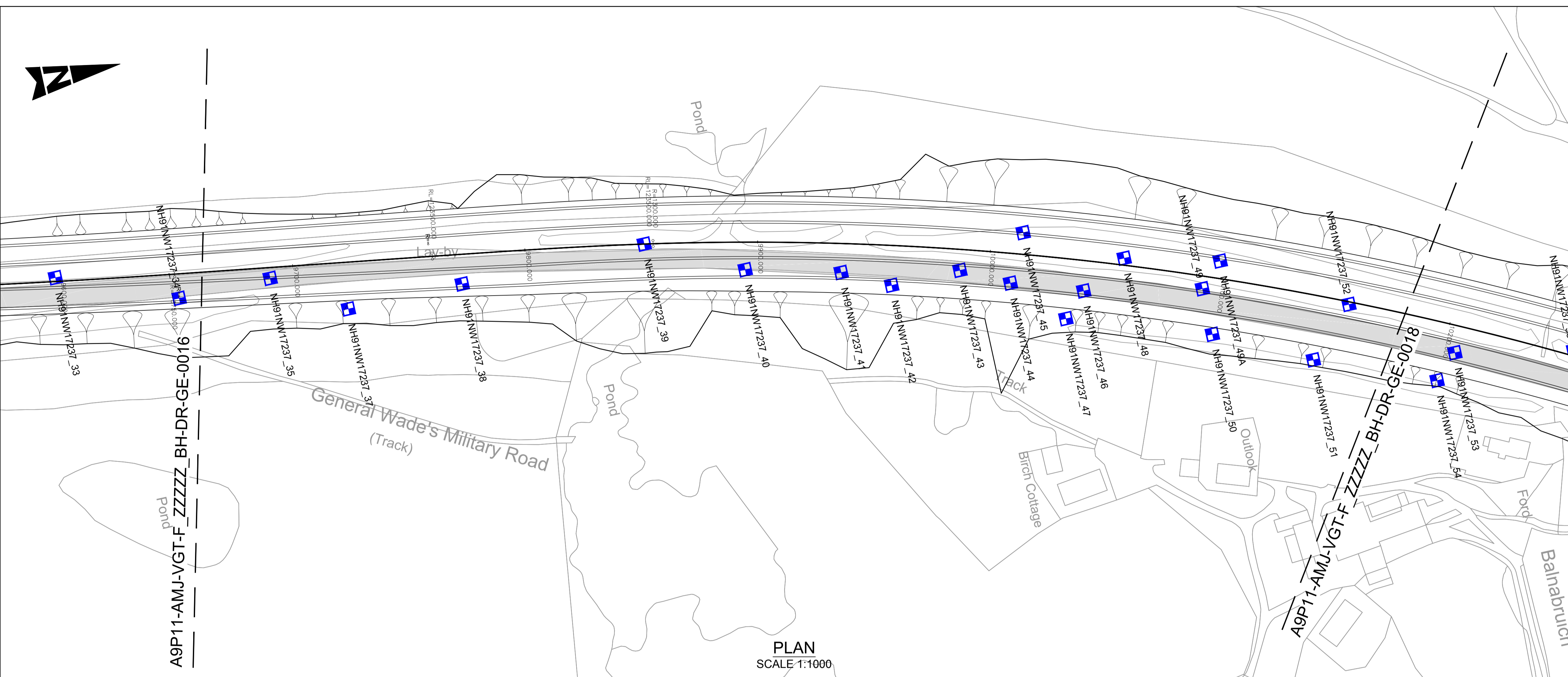
ELEVATION
SCALE 1:1000 H 1:200 V

P01	CC	KP	KP	05/08/16
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Subtality
FINAL				B
Client				
 An agency of The Scottish Government				
 Dalraddy to Stochd				
Drawing Title				
FIGURE 5.21-MAINLINE ALIGNMENT OPTION 2 BOREHOLE PLAN AND LONG SECTION (SHEET 16 OF 41)				
Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	CC	KP	KP	RG
Original Size	Date	Date	Date	Date
A1	02/08/16	03/08/16	03/08/16	05/08/16
Drawing Number				
Project	Originator	Volume	Revision	
A9P11 - AMJ - VGT - F_ZZZZ_BH - DR - GE - 0016			P01	
Location	Type	Role	Number	

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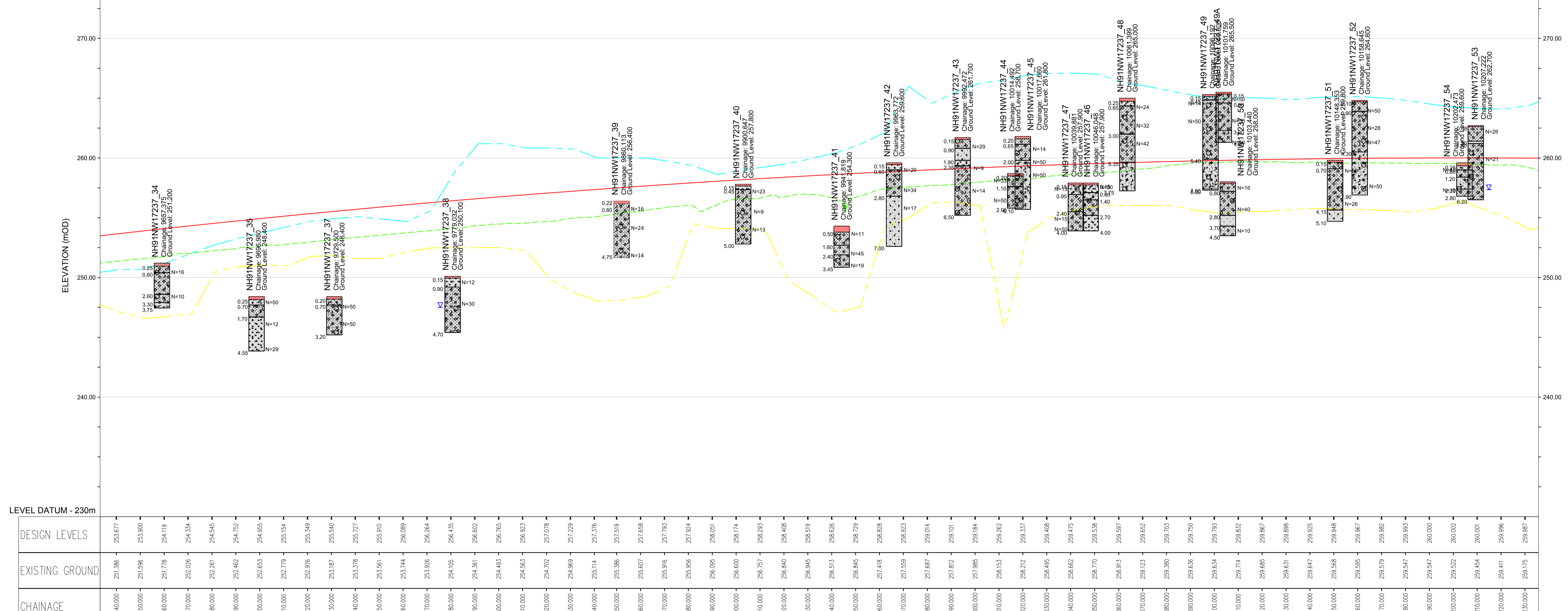
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Millimetres
DO NOT SCALE



- NOTES:**
- ALL LEVELS IN mAOD UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
 - ALL DEPTHS SHOWN ARE IN METRES.
 - HISTORICAL BOREHOLE POSITIONS AND LEVELS INFERRED FROM BGS DATABASE TO ACCURACY ± 10m.
- KEY:**
- EXISTING A9
- BGS HISTORICAL GROUND INVESTIGATION:**
- | | |
|-----------------------|-----------------------|
| NH82NW 1973 BOREHOLE | NH80NE 1978 BOREHOLE |
| NH82NW 1973 CORE | NH80NE 1978 CORE |
| NH82NW 1973 TRIAL PIT | NH80NE 1978 TRIAL PIT |
| NH91NW 1977 BOREHOLE | NH81SE 2003 BOREHOLE |
| NH91NW 1977 CORE | NH81SE 2003 CORE |
| NH91NW 1977 TRIAL PIT | NH81SE 2003 TRIAL PIT |
| NH81SE 1964 BOREHOLE | NH81SE 1999 BOREHOLE |
| NH81SE 1964 CORE | NH81SE 1999 CORE |
| NH81SE 1964 TRIAL PIT | NH81SE 1999 TRIAL PIT |
| NH82SE 1993 BOREHOLE | NH81SE 1999 BOREHOLE |
| NH82SE 1993 CORE | NH81SE 1999 CORE |
| NH82SE 1993 TRIAL PIT | NH81SE 1999 TRIAL PIT |
| NH82SE 2008 BOREHOLE | |
| NH82SE 2008 CORE | |
| NH82SE 2008 TRIAL PIT | |
- GEOTECHNICAL LONG SECTION KEY:**
- | | |
|---------------------------------|-------------|
| TOPSOIL | TOPSOIL |
| MADE GROUND | MADE GROUND |
| PEAT | SAND |
| ALLUVIUM GRANULAR | GRAVEL |
| RIVER TERRACE DEPOSITS COHESIVE | SILT |
| RIVER TERRACE DEPOSITS GRANULAR | CLAY |
| GLACIAL FLUVIAL GRANULAR | BOULDERS |
| GLACIAL TILL COHESIVE | BEDROCK |
| GLACIAL TILL GRANULAR | |
| ROCK | |
- NOTE:**
COMPOSITE SOIL TYPES WILL BE SIGNIFIED BY COMBINED SYMBOLS E.G. SILTY SAND
DEPTHS (m BGL) ARE GENERALLY PRESENTED TO THE LEFT OF THE BOREHOLE LOGS ON THE GEOLOGICAL SECTION.
- LEGEND:**
- WATER STRIKE
 - RISE TO IN 20 MINS
 - PROPOSED ROAD LEVEL
 - EXISTING GROUND LEVEL
 - SOUTHBOUND EARTHWORKS LEVEL
 - NORTHBOUND EARTHWORKS LEVEL

PLAN
SCALE 1:1000



ELEVATION
SCALE 1:1000 H 1:200 V

P01	CC	KP	KP	05/08/16
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
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FINAL				B

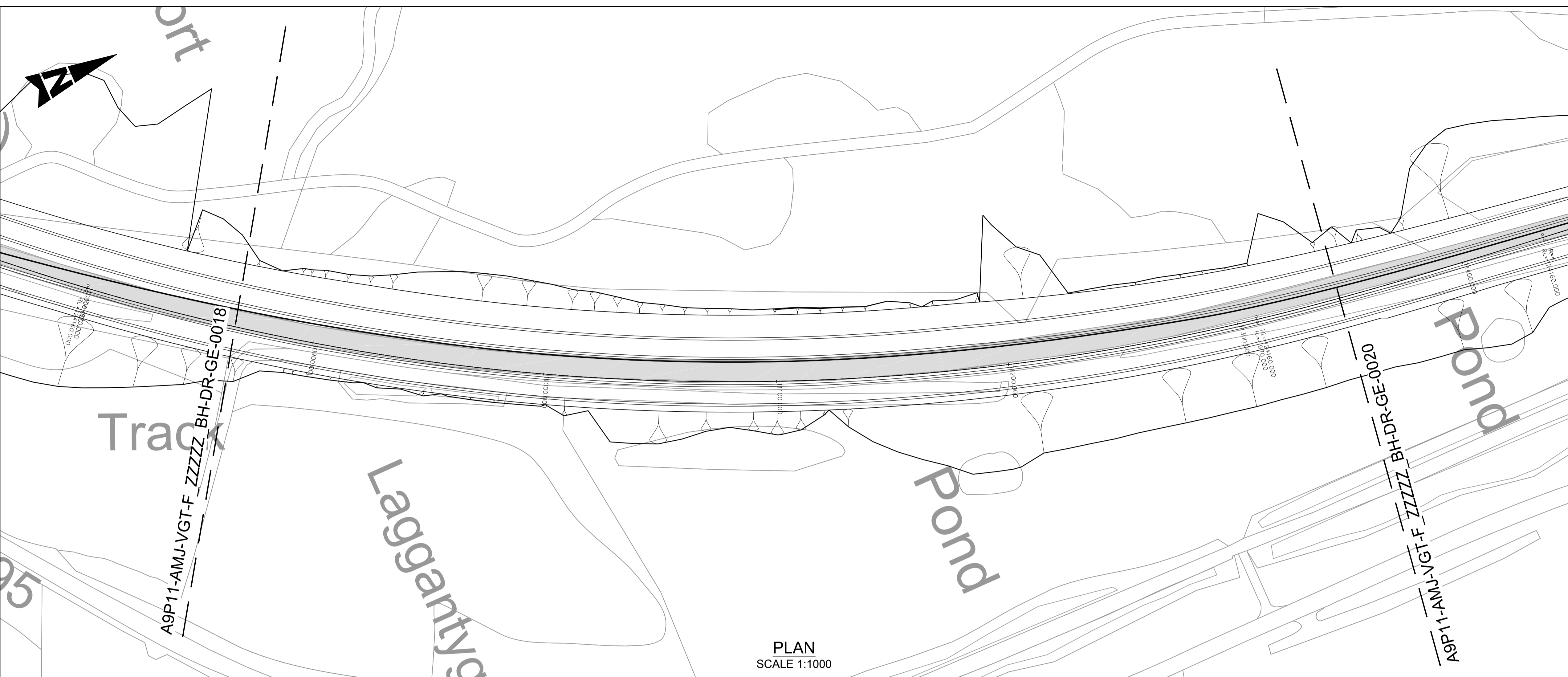
Client				
 An agency of The Scottish Government				
 Dalraddy to Slouch				

Drawing Title				
FIGURE 5.21-MAINLINE ALIGNMENT OPTION 2 BOREHOLE PLAN AND LONG SECTION (SHEET 17 OF 41)				
Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	CC	KP	KP	RG
Original Size	Date	Date	Date	Date
A1	02/08/16	03/08/16	03/08/16	05/08/16
Drawing Number				Revision
Project		Originator	Volume	
A9P11 - AMJ - VGT - F_ZZZZ_BH - DR - GE - 0017				P01
Location	Type	Role	Number	

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PLAN
SCALE 1:1000

- NOTES:**
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 - ALL DEPTHS SHOWN ARE IN METRES.
 - HISTORICAL BOREHOLE POSITIONS AND LEVELS INFERRED FROM BGS DATABASE TO ACCURACY ± 10m.

- KEY:**
- EXISTING A9
- BGS HISTORICAL GROUND INVESTIGATION:**
- | | |
|-----------------------|-----------------------|
| NH82NW 1973 BOREHOLE | NH80NE 1978 BOREHOLE |
| NH82NW 1973 CORE | NH80NE 1978 CORE |
| NH82NW 1973 TRIAL PIT | NH80NE 1978 TRIAL PIT |
| NH91NW 1977 BOREHOLE | NH81SE 2003 BOREHOLE |
| NH91NW 1977 CORE | NH81SE 2003 CORE |
| NH81SE 1964 BOREHOLE | NH81SE 2003 TRIAL PIT |
| NH81SE 1964 CORE | NH81SE 1999 BOREHOLE |
| NH81SE 1964 TRIAL PIT | NH81SE 1999 TRIAL PIT |
| NH82SE 1993 BOREHOLE | NH81SE 1999 BOREHOLE |
| NH82SE 1993 CORE | NH81SE 1999 CORE |
| NH82SE 1993 TRIAL PIT | NH81SE 1999 TRIAL PIT |
| NH82SE 2008 BOREHOLE | |
| NH82SE 2008 CORE | |
| NH82SE 2008 TRIAL PIT | |

- GEOTECHNICAL LONG SECTION KEY:**
- | | |
|---------------------------------|-------------|
| TOPSOIL | TOPSOIL |
| MADE GROUND | MADE GROUND |
| PEAT | SAND |
| ALLUVIUM GRANULAR | GRAVEL |
| RIVER TERRACE DEPOSITS COHESIVE | SILT |
| RIVER TERRACE DEPOSITS GRANULAR | CLAY |
| GLACIAL FLUVIAL GRANULAR | BOULDERS |
| GLACIAL TILL COHESIVE | BEDROCK |
| GLACIAL TILL GRANULAR | |
| ROCK | |

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COMPOSITE SOIL TYPES WILL BE SIGNIFIED BY COMBINED SYMBOLS E.G. SILTY SAND
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- WATER STRIKE
- RISE TO IN 20 MINS
- PROPOSED ROAD LEVEL
- EXISTING GROUND LEVEL
- SOUTHBOUND EARTHWORKS LEVEL
- NORTHBOUND EARTHWORKS LEVEL



ELEVATION
SCALE 1:1000 H 1:200 V

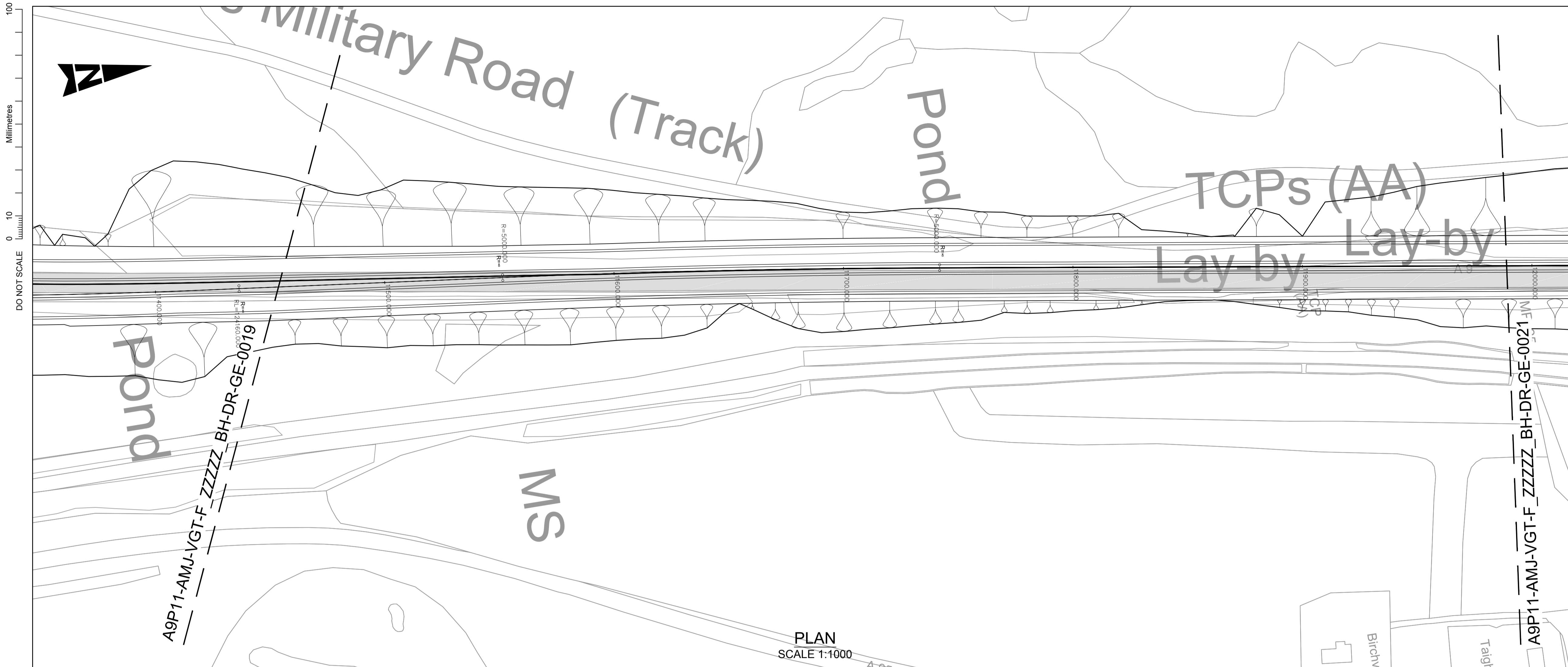
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FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Subtability
FINAL				B

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 Dalraddy to Stochd				

Drawing Title				
FIGURE 5.21-MAINLINE ALIGNMENT OPTION 2 BOREHOLE PLAN AND LONG SECTION (SHEET 19 OF 41)				
Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	CC	KP	KP	RG
Original Size	Date	Date	Date	Date
A1	02/08/16	03/08/16	03/08/16	05/08/16
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A9P11 - AMJ - VGT - F_ZZZZ_BH - DR - GE - 0019			P01	
Location	Type	Role	Number	

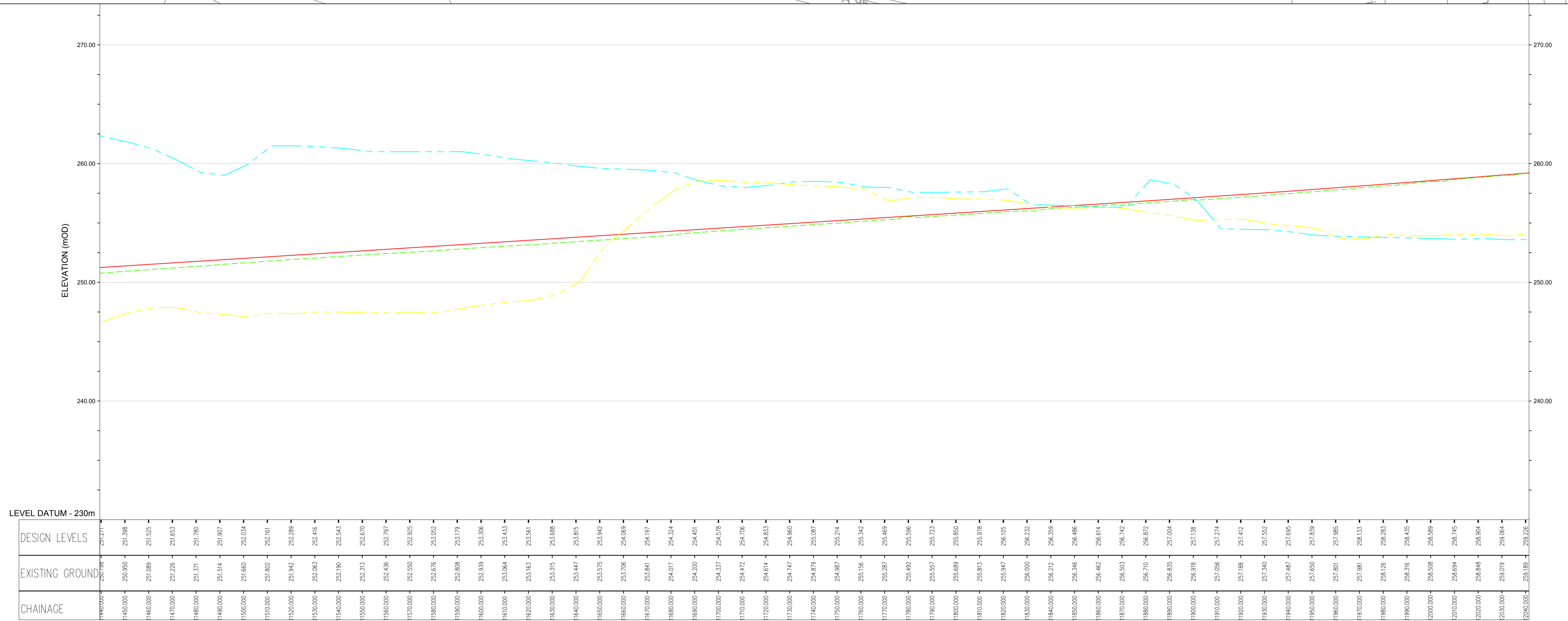
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- NOTES:**
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 - ALL DEPTHS SHOWN ARE IN METRES.
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- KEY:**
- EXISTING A9
- BGS HISTORICAL GROUND INVESTIGATION:**
- | | |
|-----------------------|-----------------------|
| NH82NW 1973 BOREHOLE | NH80NE 1978 BOREHOLE |
| NH82NW 1973 CORE | NH80NE 1978 CORE |
| NH82NW 1973 TRIAL PIT | NH80NE 1978 TRIAL PIT |
| NH91NW 1977 BOREHOLE | NH81SE 2003 BOREHOLE |
| NH91NW 1977 CORE | NH81SE 2003 CORE |
| NH91NW 1977 TRIAL PIT | NH81SE 2003 TRIAL PIT |
| NH81SE 1964 BOREHOLE | NH81SE 1999 BOREHOLE |
| NH81SE 1964 CORE | NH81SE 1999 CORE |
| NH81SE 1964 TRIAL PIT | NH81SE 1999 TRIAL PIT |
| NH82SE 1993 BOREHOLE | NH81SE 1999 TRIAL PIT |
| NH82SE 1993 CORE | NH81SE 1999 TRIAL PIT |
| NH82SE 1993 TRIAL PIT | NH81SE 1999 TRIAL PIT |
| NH82SE 2008 BOREHOLE | NH81SE 1999 TRIAL PIT |
| NH82SE 2008 CORE | |
| NH82SE 2008 TRIAL PIT | |
- GEOTECHNICAL LONG SECTION KEY:**
- | | |
|---------------------------------|-------------|
| TOPSOIL | TOPSOIL |
| MADE GROUND | MADE GROUND |
| PEAT | SAND |
| ALLUVIUM GRANULAR | GRAVEL |
| RIVER TERRACE DEPOSITS COHESIVE | SILT |
| RIVER TERRACE DEPOSITS GRANULAR | CLAY |
| GLACIAL FLUVIAL GRANULAR | BOULDERS |
| GLACIAL TILL COHESIVE | BEDROCK |
| GLACIAL TILL GRANULAR | |
| ROCK | |
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- WATER STRIKE
 - RISE TO IN 20 MINS
 - PROPOSED ROAD LEVEL
 - EXISTING GROUND LEVEL
 - SOUTHBOUND EARTHWORKS LEVEL
 - NORTHBOUND EARTHWORKS LEVEL

PLAN SCALE 1:1000



LEVEL DATUM - 230m	CHAINAGE	DESIGN LEVELS	EXISTING GROUND
230.00	1440000	251.338	251.338
230.00	1450000	251.525	251.525
230.00	1460000	251.653	251.653
230.00	1470000	251.780	251.780
230.00	1480000	251.907	251.907
230.00	1490000	252.034	252.034
230.00	1500000	252.161	252.161
230.00	1510000	252.289	252.289
230.00	1520000	252.416	252.416
230.00	1530000	252.543	252.543
230.00	1540000	252.670	252.670
230.00	1550000	252.797	252.797
230.00	1560000	252.924	252.924
230.00	1570000	253.051	253.051
230.00	1580000	253.178	253.178
230.00	1590000	253.305	253.305
230.00	1600000	253.432	253.432
230.00	1610000	253.559	253.559
230.00	1620000	253.686	253.686
230.00	1630000	253.813	253.813
230.00	1640000	253.940	253.940
230.00	1650000	254.067	254.067
230.00	1660000	254.194	254.194
230.00	1670000	254.321	254.321
230.00	1680000	254.448	254.448
230.00	1690000	254.575	254.575
230.00	1700000	254.702	254.702
230.00	1710000	254.829	254.829
230.00	1720000	254.956	254.956
230.00	1730000	255.083	255.083
230.00	1740000	255.210	255.210
230.00	1750000	255.337	255.337
230.00	1760000	255.464	255.464
230.00	1770000	255.591	255.591
230.00	1780000	255.718	255.718
230.00	1790000	255.845	255.845
230.00	1800000	255.972	255.972
230.00	1810000	260.100	260.100
230.00	1820000	260.227	260.227
230.00	1830000	260.354	260.354
230.00	1840000	260.481	260.481
230.00	1850000	260.608	260.608
230.00	1860000	260.735	260.735
230.00	1870000	260.862	260.862
230.00	1880000	260.989	260.989
230.00	1890000	261.116	261.116
230.00	1900000	261.243	261.243
230.00	1910000	261.370	261.370
230.00	1920000	261.497	261.497
230.00	1930000	261.624	261.624
230.00	1940000	261.751	261.751
230.00	1950000	261.878	261.878
230.00	1960000	262.005	262.005
230.00	1970000	262.132	262.132
230.00	1980000	262.259	262.259
230.00	1990000	262.386	262.386
230.00	2000000	262.513	262.513
230.00	2010000	262.640	262.640
230.00	2020000	262.767	262.767

ELEVATION SCALE 1:1000 H 1:200 V

P01	CC	KP	KP	05/08/16
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Subtability
FINAL				B
Client				
 TRANSPORT SCOTLAND <small>An agency of The Scottish Government</small>				
 A9 DUALLING PERTH TO INVERNESS <small>Dalraddy to Stochd</small>				
 ATKINS mouchel				
Drawing Title				
FIGURE 5.21-MAINLINE ALIGNMENT OPTION 2 BOREHOLE PLAN AND LONG SECTION (SHEET 20 OF 41)				
Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	CC	KP	KP	RG
Original Size	Date	Date	Date	Date
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Drawing Number				
Project	Originator	Volume	Revision	
A9P11 - AMJ - VGT - F_ZZZZ_BH - DR - GE - 0020			P01	
Location	Type	Role	Number	