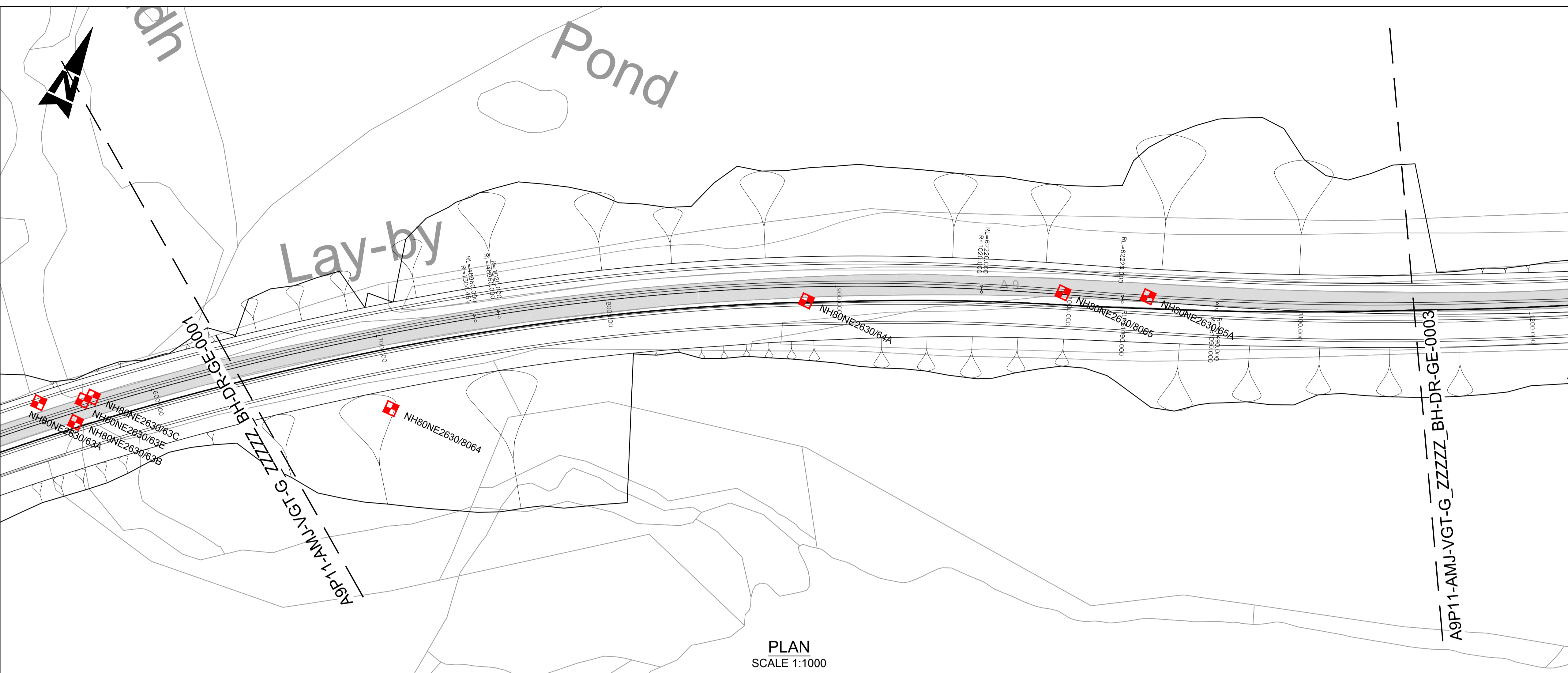


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PLAN
SCALE 1:1000

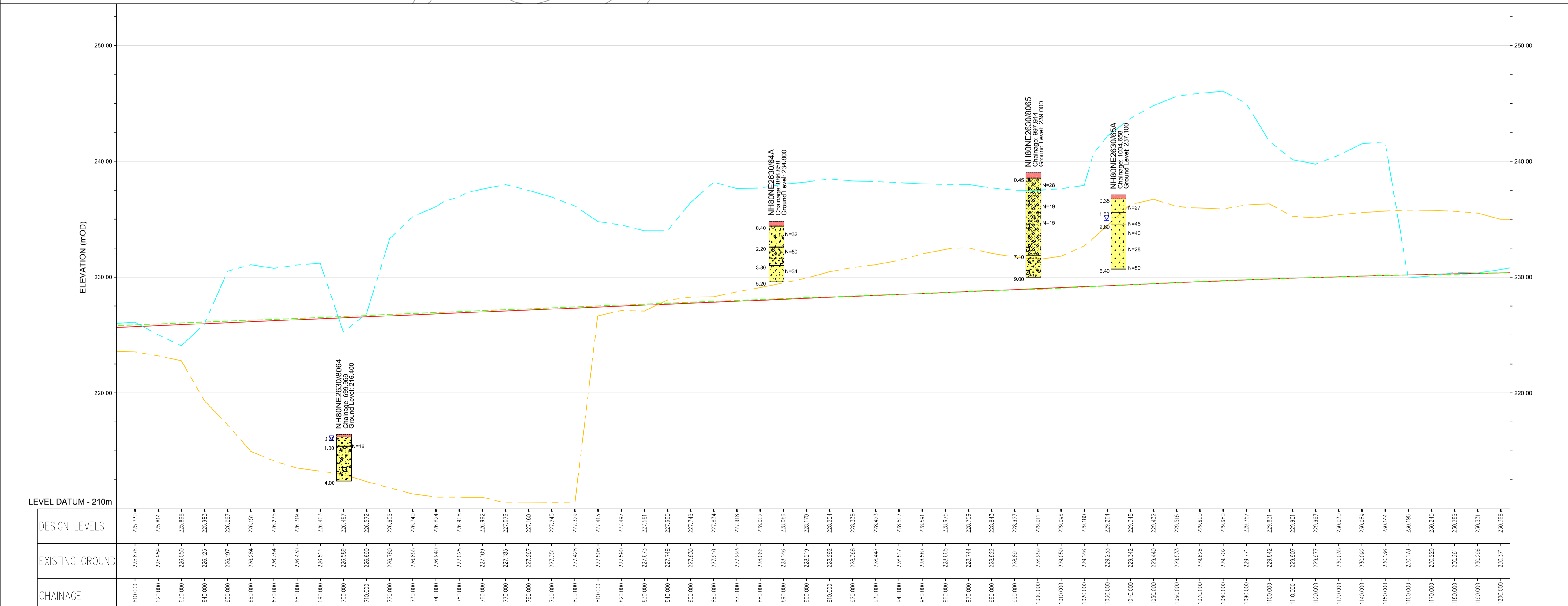
- NOTES:
- ALL LEVELS IN mAOD UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
 - ALL DEPTHS SHOWN ARE IN METRES.
 - HISTORICAL BOREHOLE POSITIONS AND LEVELS INFERRED FROM BGS DATABASE TO ACCURACY ± 10m.

- 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 | 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				
Drawing Status				Subtability
FINAL				B

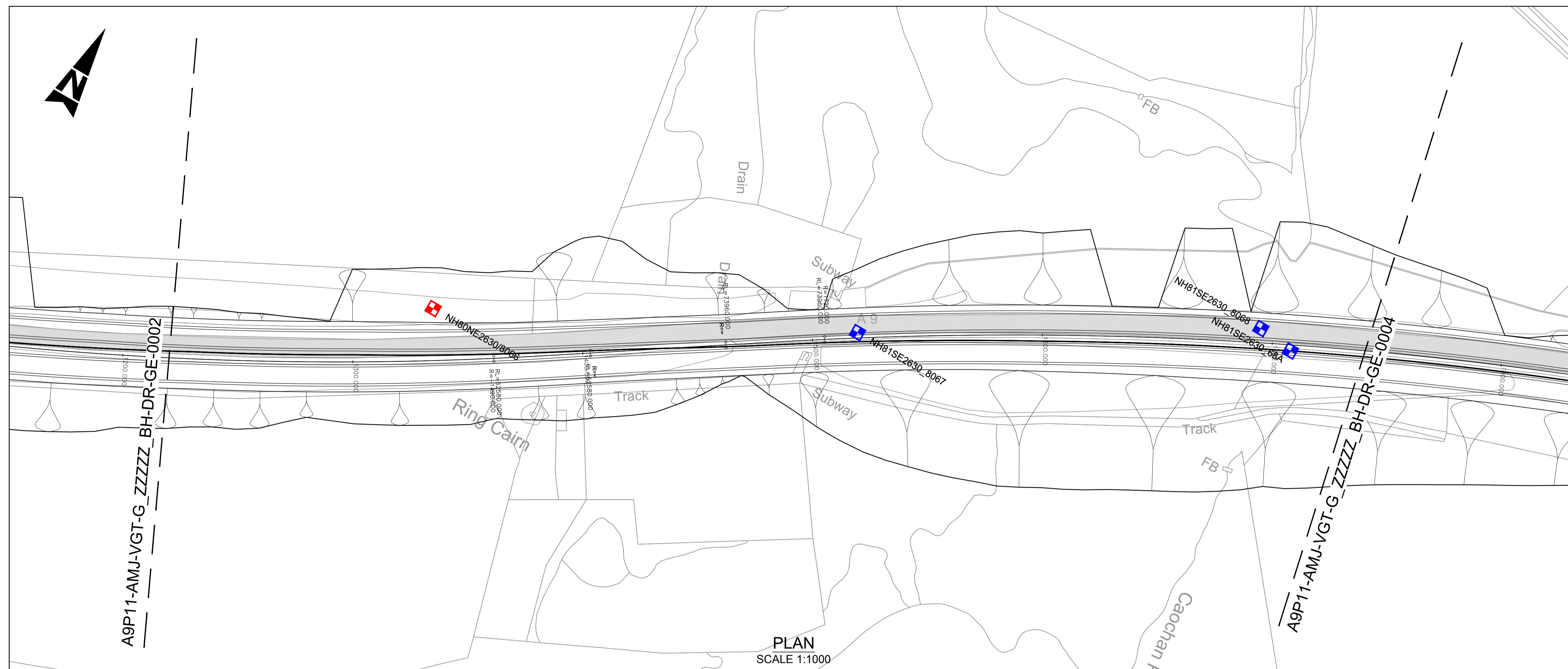
Client				
 An agency of The Scottish Government				
 Dalraddy to Stochd				

Drawing Title				
FIGURE 5.20-MAINLINE ALIGNMENT OPTION 1A BOREHOLE PLAN AND LONG SECTION (SHEET 2 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 - G_ZZZZ_BH - DR - GE - 0002			P01	
Location	Type	Role	Number	

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DO NOT SCALE

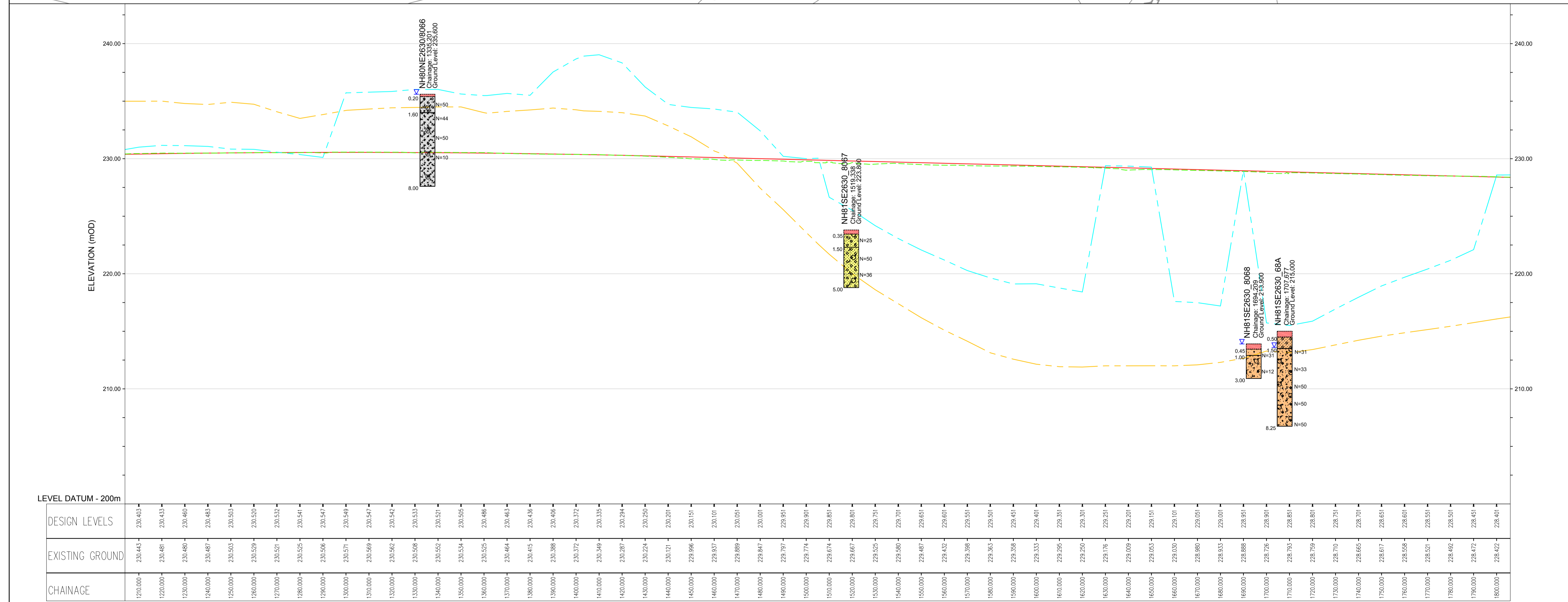


PLAN
SCALE 1:1000

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

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

- NOTE:**
- COMPOSITE SOIL TYPES WILL BE SIGNIFIED BY COMBINED SYMBOLS E.G. SILTY SAND
- DEPTH (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				Subtality
FINAL				B

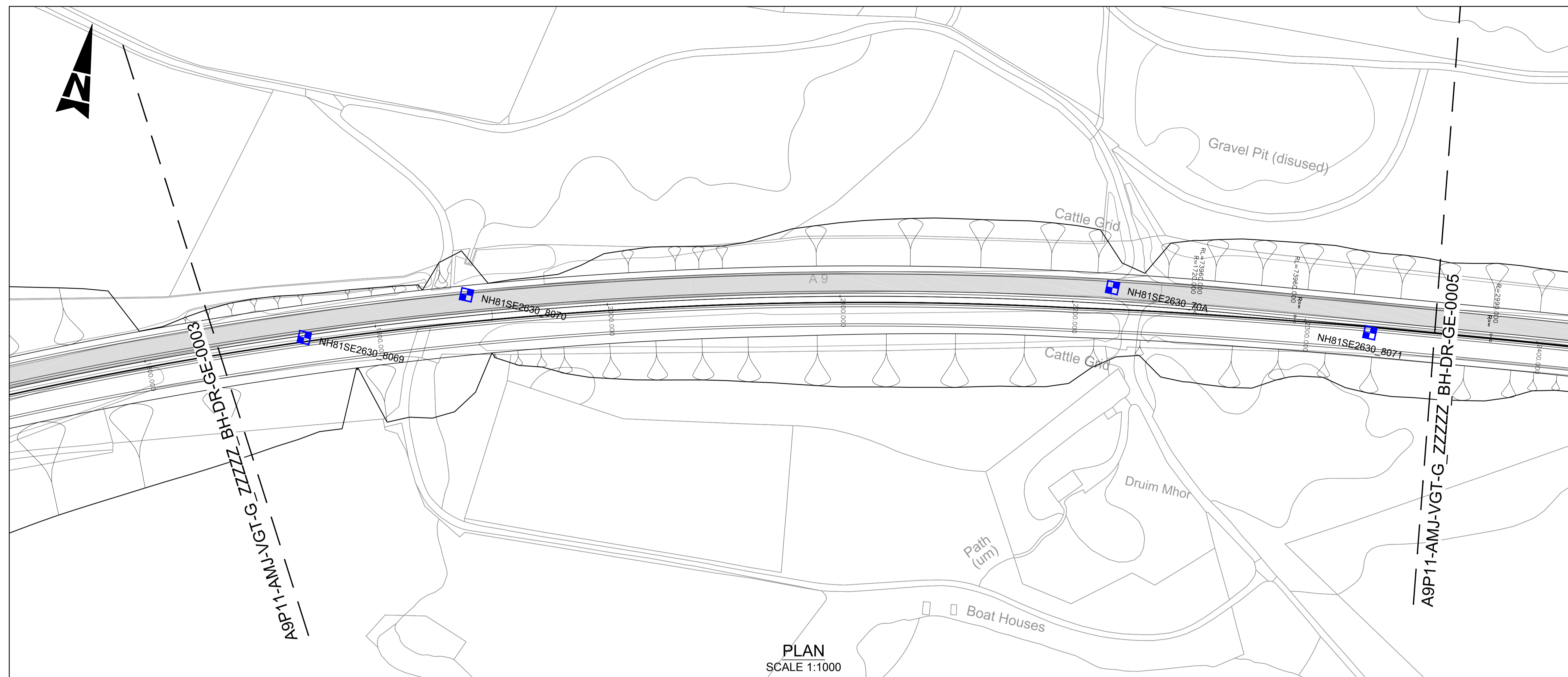
Client				
 An agency of The Scottish Government				
 Dalraddy to Slouch				

Drawing Title				
FIGURE 5.20-MAINLINE ALIGNMENT OPTION 1A BOREHOLE PLAN AND LONG SECTION (SHEET 3 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 - G_ZZZZ_BH - DR - GE - 0003		A9P11 - AMJ - VGT - G_ZZZZ_BH - DR - GE - 0003		P01
Location	Type	Role	Number	

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Millimetres
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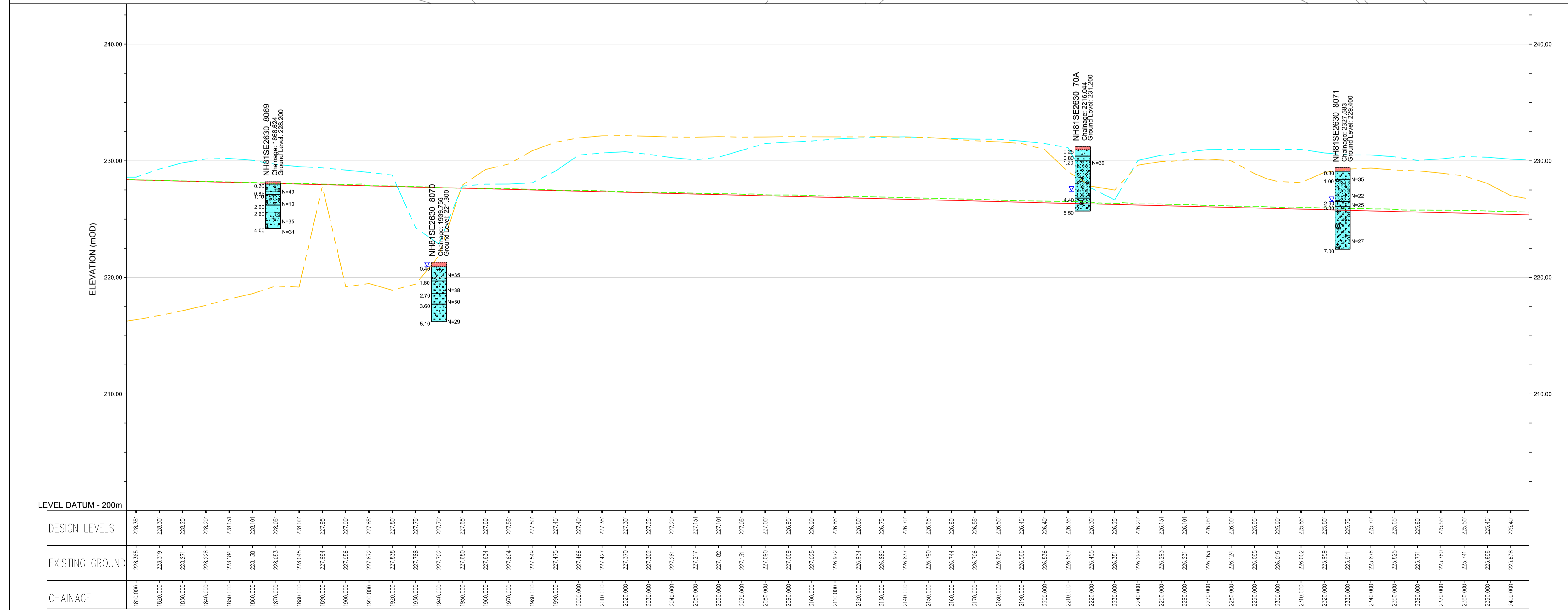
- NOTES:**
- ALL LEVELS IN mAOD UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
 - ALL DEPTHS SHOWN ARE IN METRES.
 - HISTORICAL BOREHOLE POSITIONS AND LEVELS INFERRED FROM BGS DATABASE TO ACCURACY ± 10m.
- KEY:**
- EXISTING A9
- BGS HISTORICAL GROUND INVESTIGATION:**
- | | |
|-----------------------|-----------------------|
| 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 | |
| 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

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				Subtability
FINAL				B

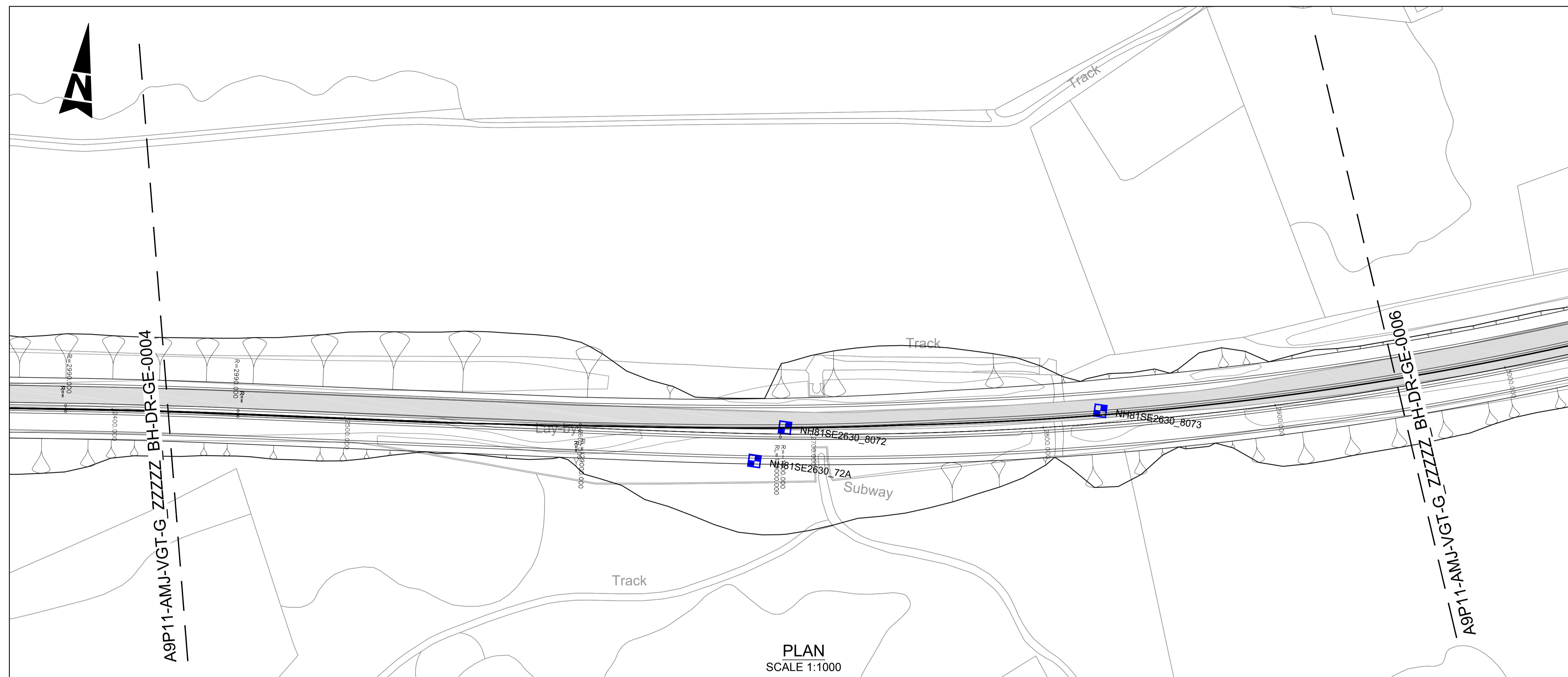
Client				
 An agency of The Scottish Government				
 Dalraddy to Slouch				

Drawing Title				
FIGURE 5.20-MAINLINE ALIGNMENT OPTION 1A BOREHOLE PLAN AND LONG SECTION (SHEET 4 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 - G_ZZZZ_BH - DR - GE - 0004			P01	
Location	Type	Role	Number	

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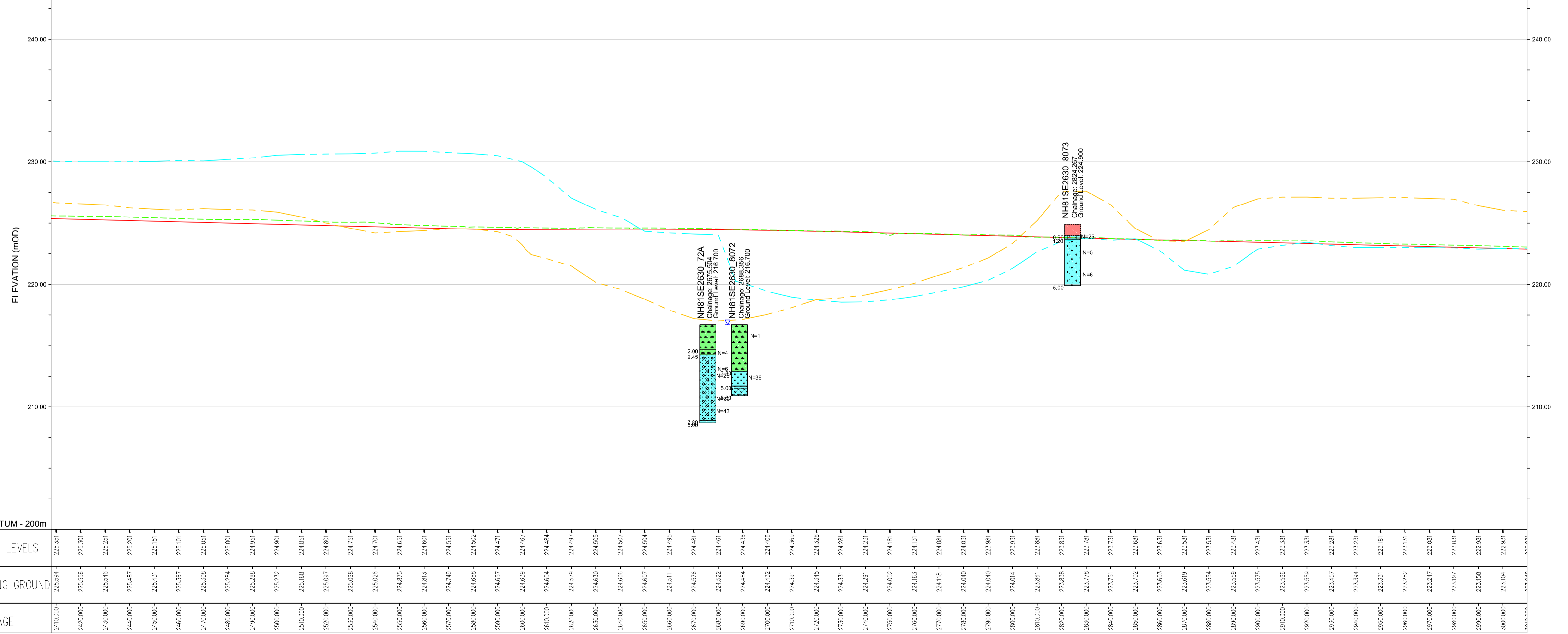
- NOTES:
- ALL LEVELS IN mAOD UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
 - ALL DEPTHS SHOWN ARE IN METRES.
 - HISTORICAL BOREHOLE POSITIONS AND LEVELS INFERRED FROM BGS DATABASE TO ACCURACY ± 10m.

- 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 | NH82SE 2008 CORE |
| 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

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

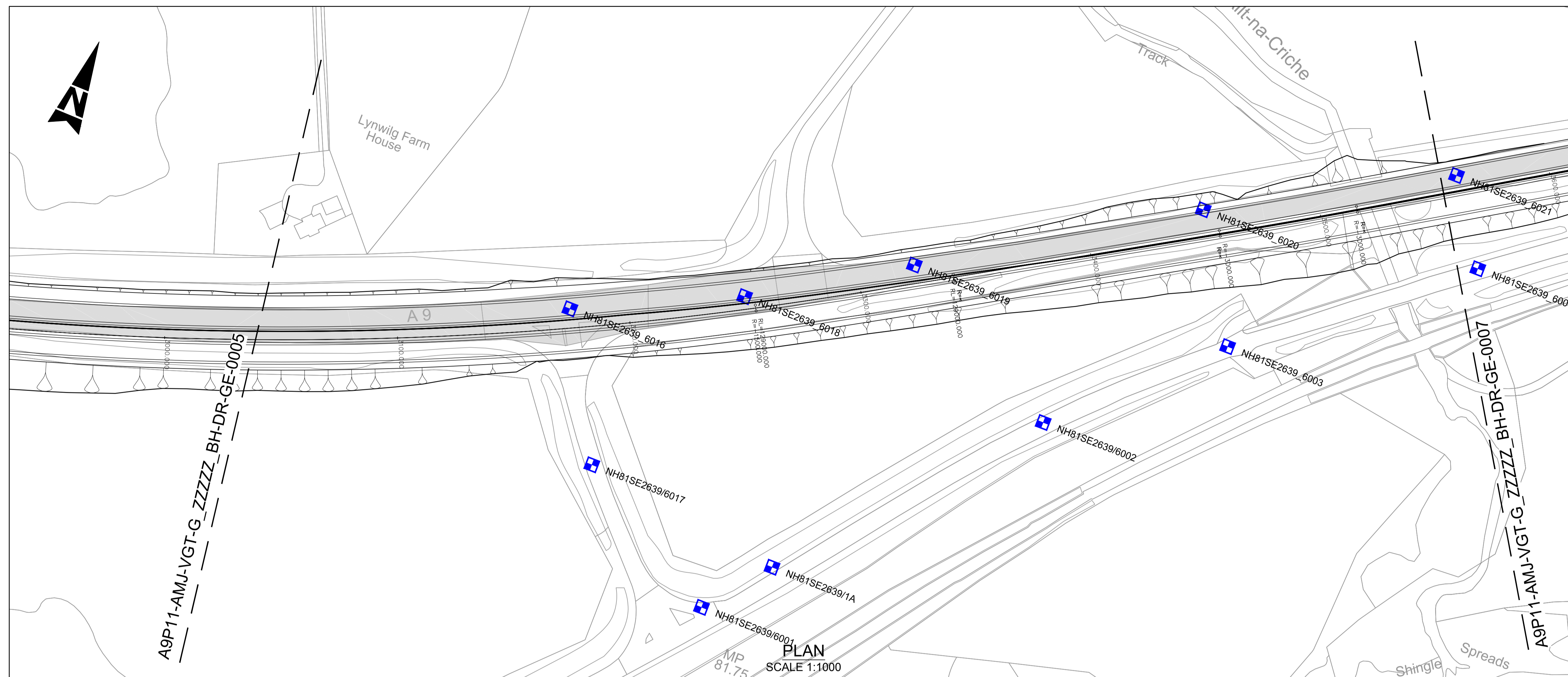
Client				
 An agency of The Scottish Government				
 Dalraddy to Stochd				

Drawing Title				
FIGURE 5.20-MAINLINE ALIGNMENT OPTION 1A BOREHOLE PLAN AND LONG SECTION (SHEET 5 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 - G_ZZZZ_BH - DR - GE - 0005			P01	
Location	Type	Role	Number	

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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:

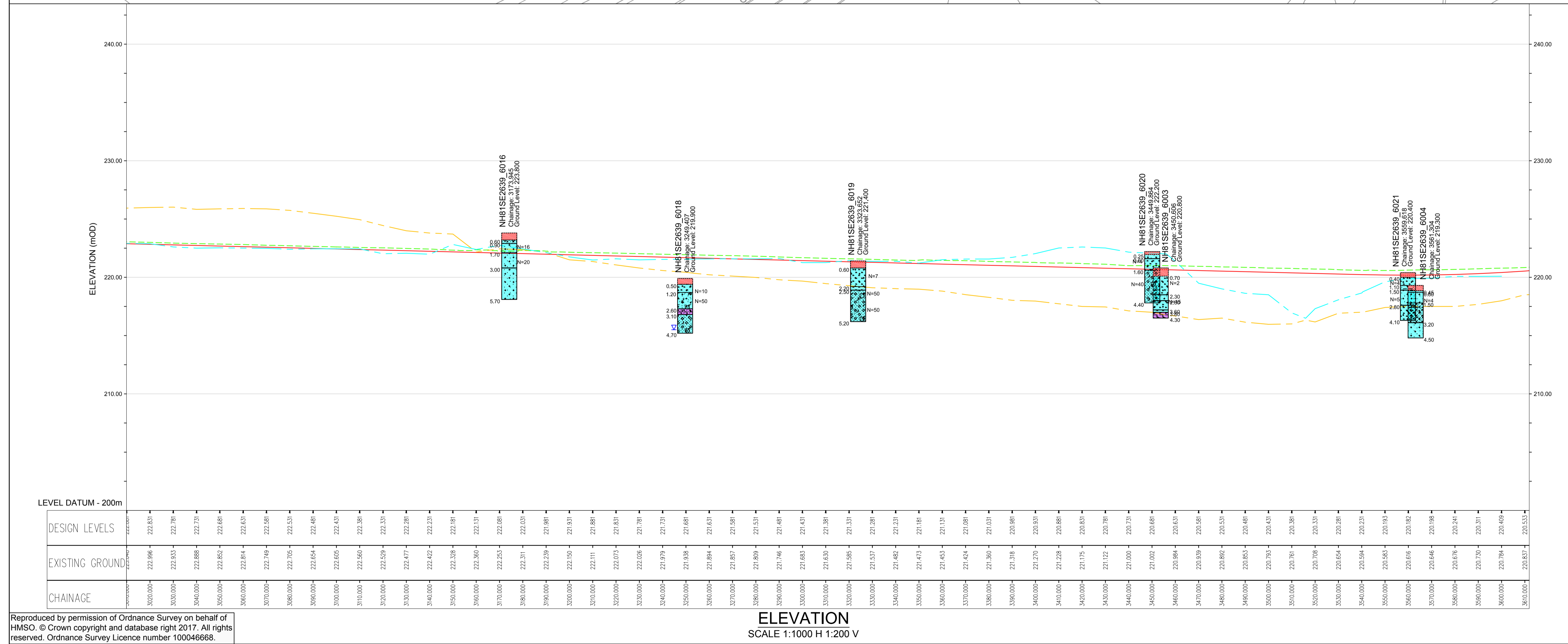
NH82NW 1973 BOREHOLE	NH80NE 1978 BOREHOLE
NH82NW 1973 CORE	NH80NE 1978 CORE
NH82NW 1973 TRIAL PIT	NH80NE 1978 TRIAL PIT
NH91NW 1977 BOREHOLE	NH81SE 2003 BOREHOLE
NH91NW 1977 CORE	NH81SE 2003 CORE
NH91NW 1977 TRIAL PIT	NH81SE 2003 TRIAL PIT
NH81SE 1964 BOREHOLE	NH81SE 1999 BOREHOLE
NH81SE 1964 CORE	NH81SE 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.

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



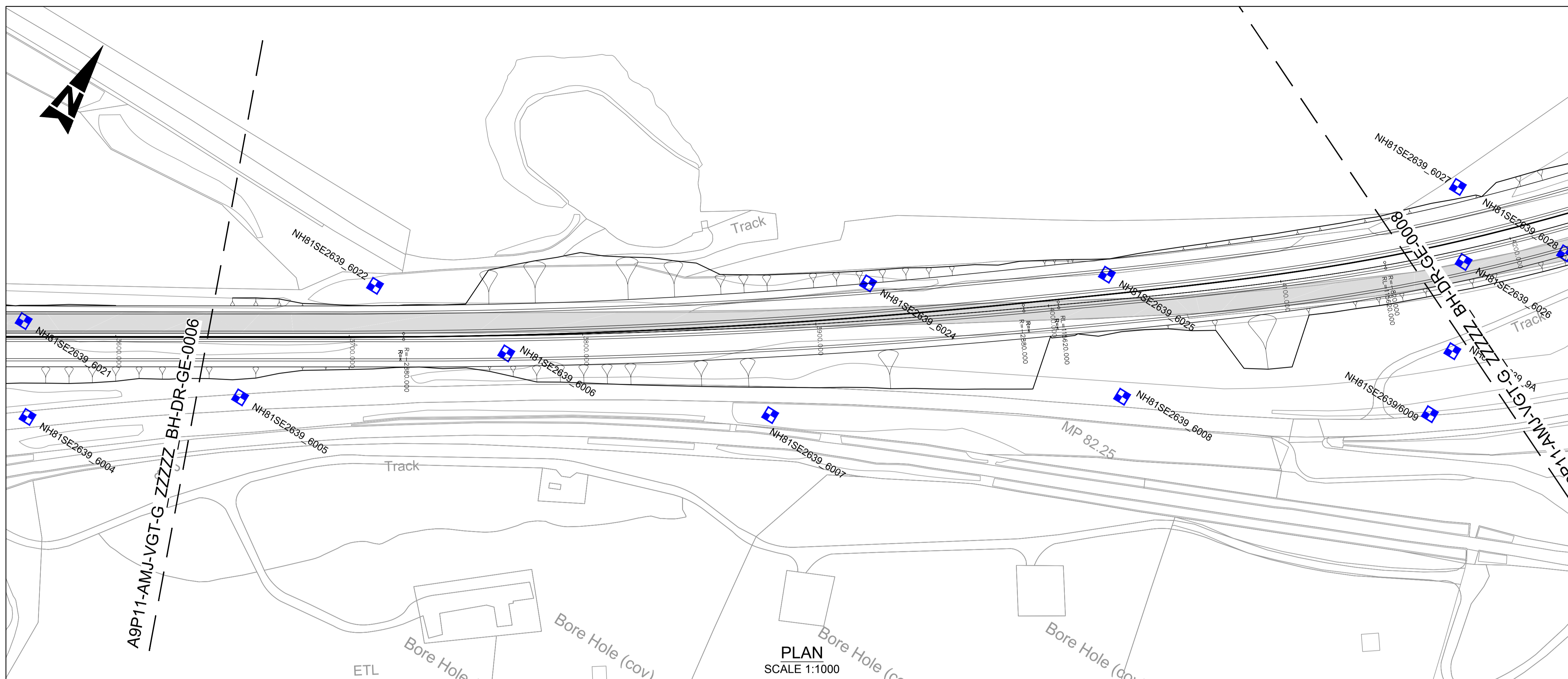
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Description				
Drawing Status				Subtability
FINAL				B
Client				
 An agency of The Scottish Government				
 Dalraddy to Slochd				
Drawing Title				
FIGURE 5.20-MAINLINE ALIGNMENT OPTION 1A BOREHOLE PLAN AND LONG SECTION (SHEET 6 OF 41)				
Scale	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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Location	Type	Role	Number	

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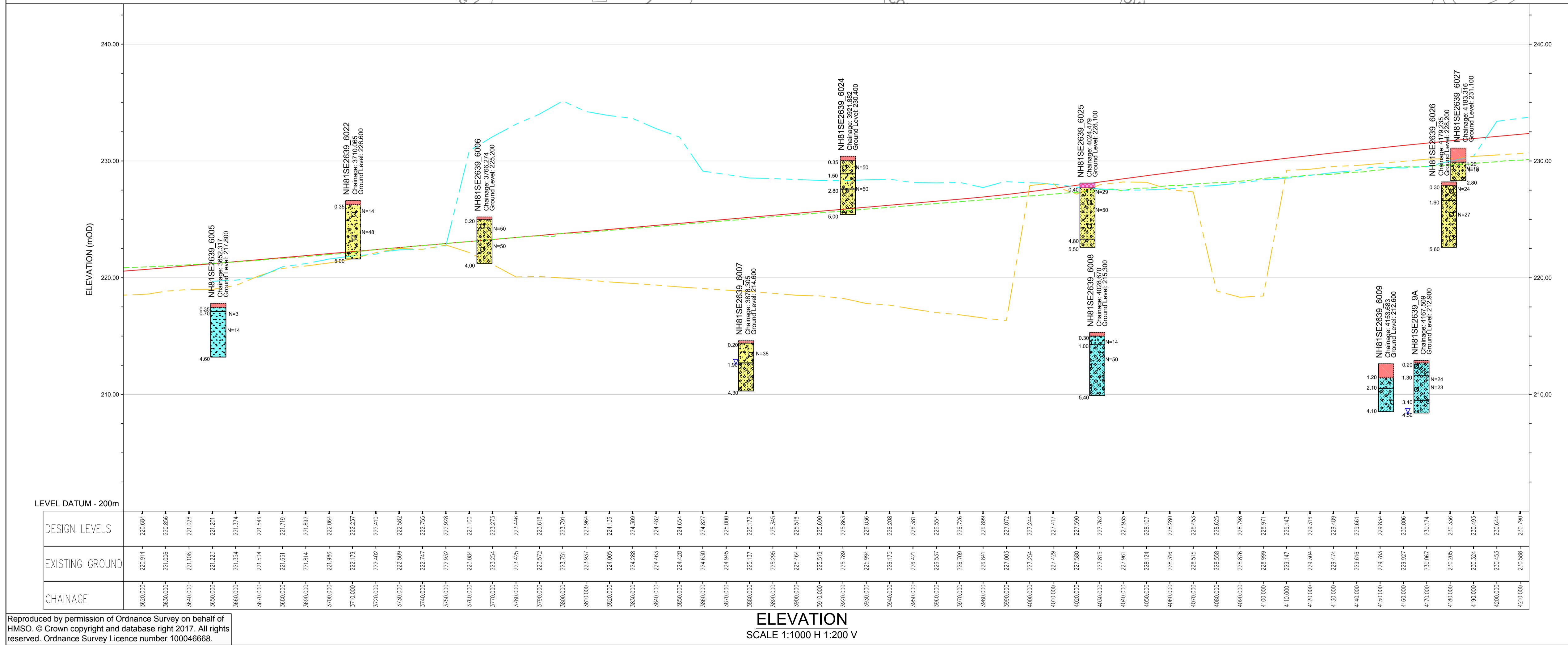
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ELEVATION
SCALE 1:1000 H 1:200 V

100
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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 |
| 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 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 LEVELS
 - SOUTHBOUND EARTHWORKS LEVEL
 - NORTHBOUND EARTHWORKS LEVEL

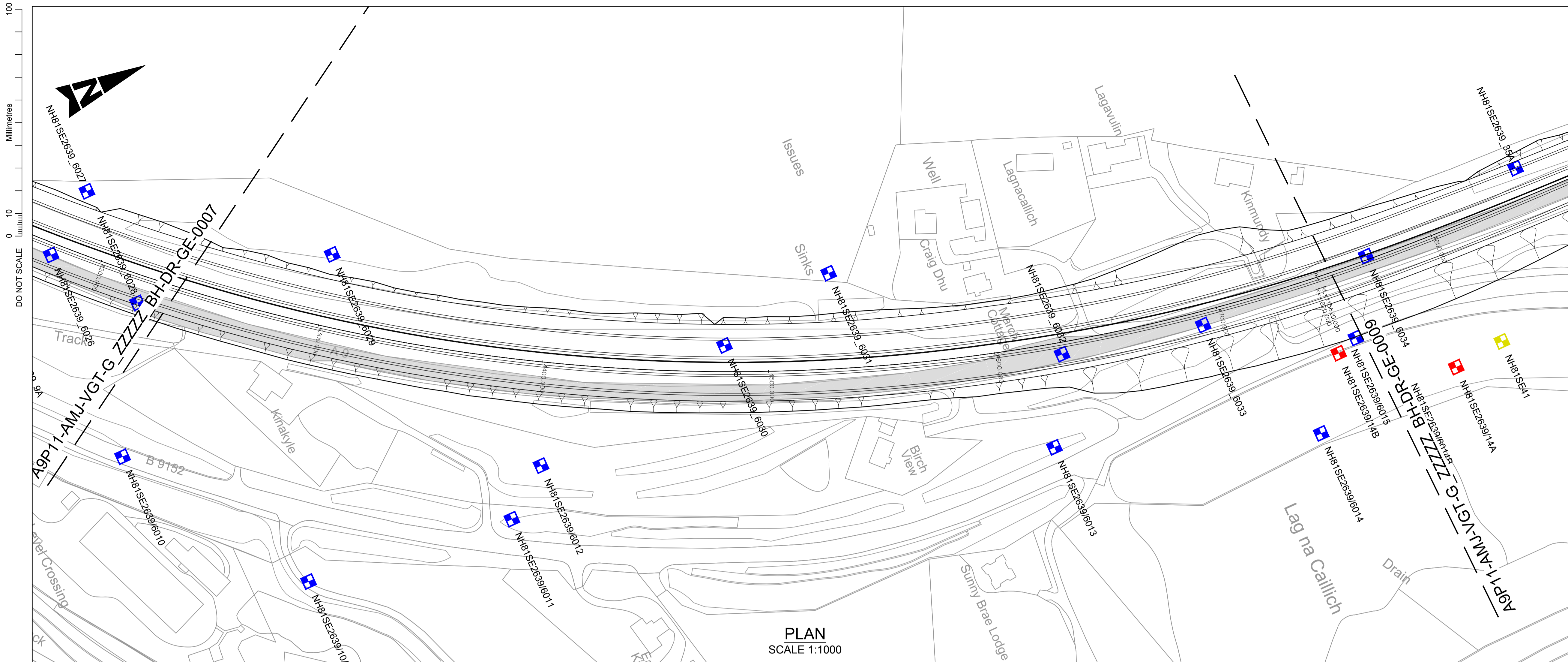


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Drawing Status				Subtability
FINAL				B
Client				
 An agency of The Scottish Government				
 Dalraddy to Slochd				
Drawing Title				
FIGURE 5.20-MAINLINE ALIGNMENT OPTION 1A BOREHOLE PLAN AND LONG SECTION (SHEET 7 OF 41)				
Scale	Designed / Drawn	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	

Plotted: Mar 28, 2017 - 11:06am by: CARR6655

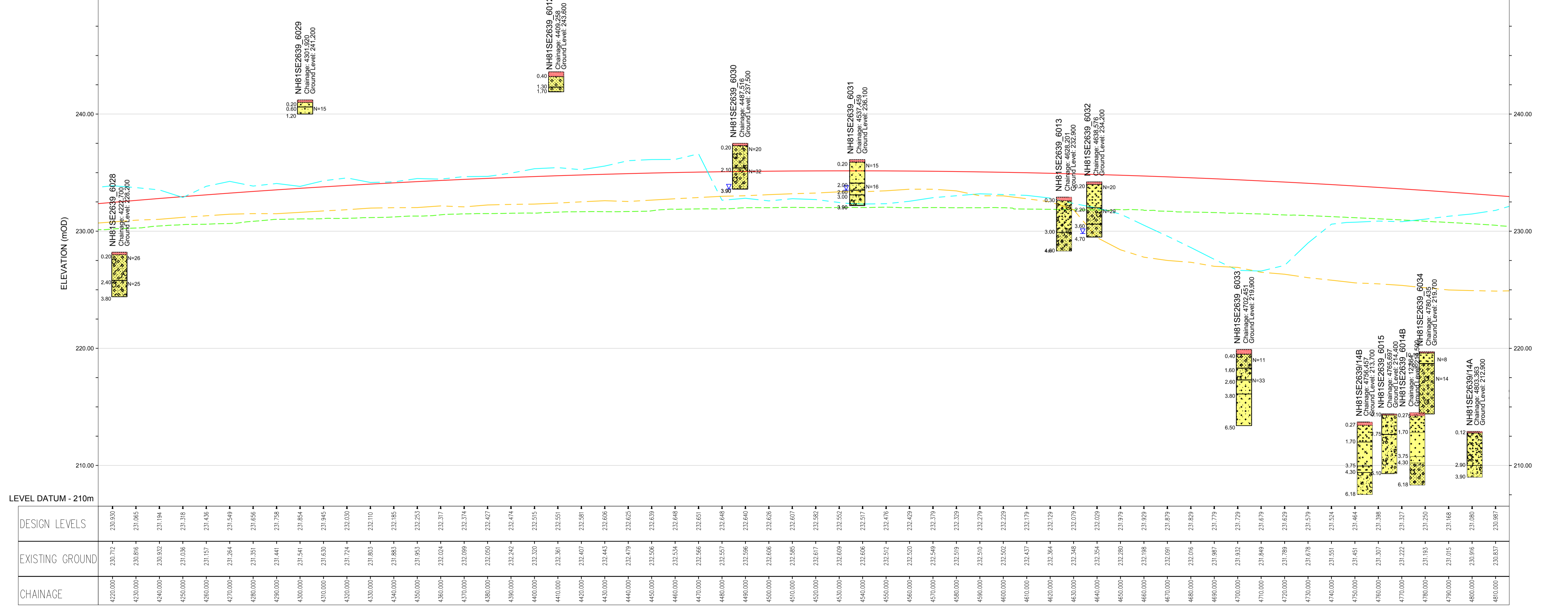
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ELEVATION
SCALE 1:1000 H 1:200 V



- 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 | NH82SE 2008 CORE |
| 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

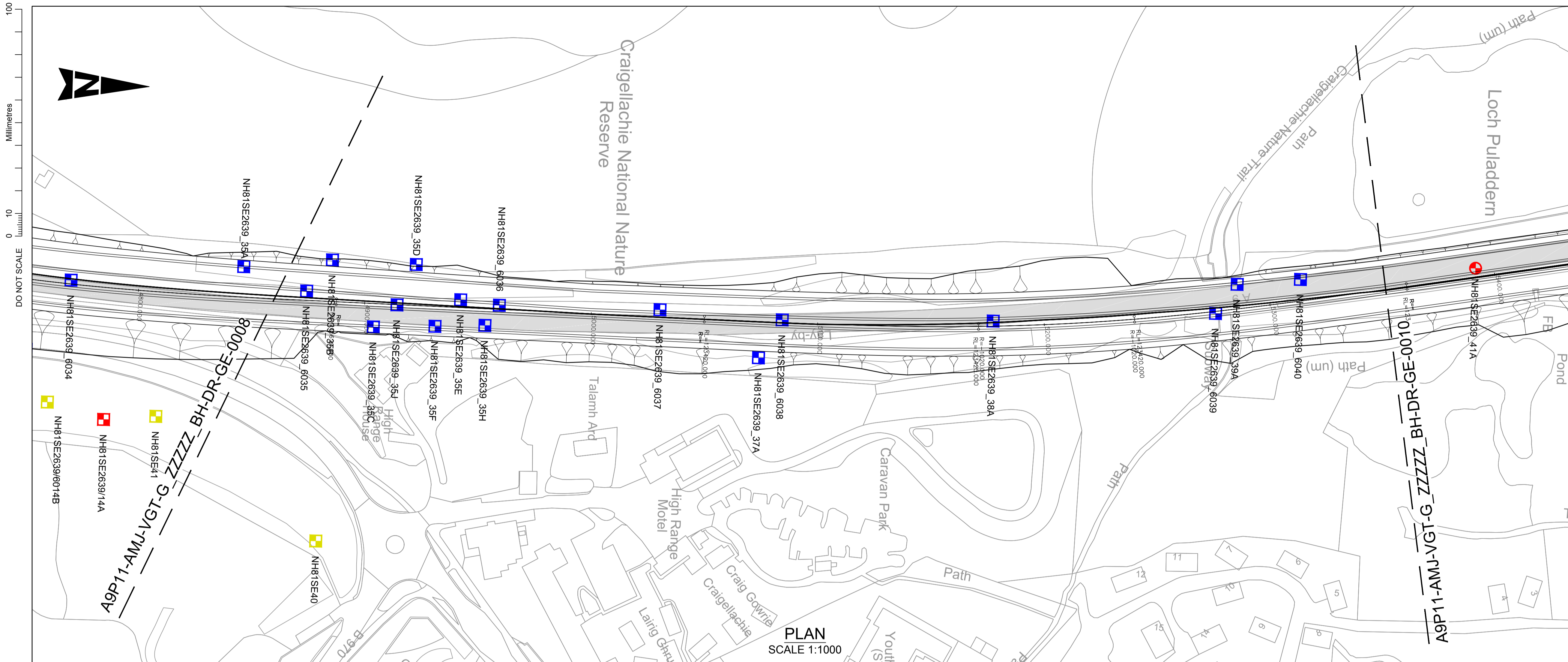
P01	CC	KP	KP	05/08/16
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Subtality
FINAL				B

Client				
 An agency of The Scottish Government				
 Dalraddy to Stochd				

Drawing Title				
FIGURE 5.20-MAINLINE ALIGNMENT OPTION 1A 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
A1	02/08/16	03/08/16	03/08/16	05/08/16
Drawing Number				Revision
Project		Originator		Volume
A9P11 - AMJ - VGT -		G_ZZZZ_BH - DR - GE - 0008		P01
Location	Type	Role	Number	

Plotted: Mar 28, 2017 - 11:16am by: CARR6635

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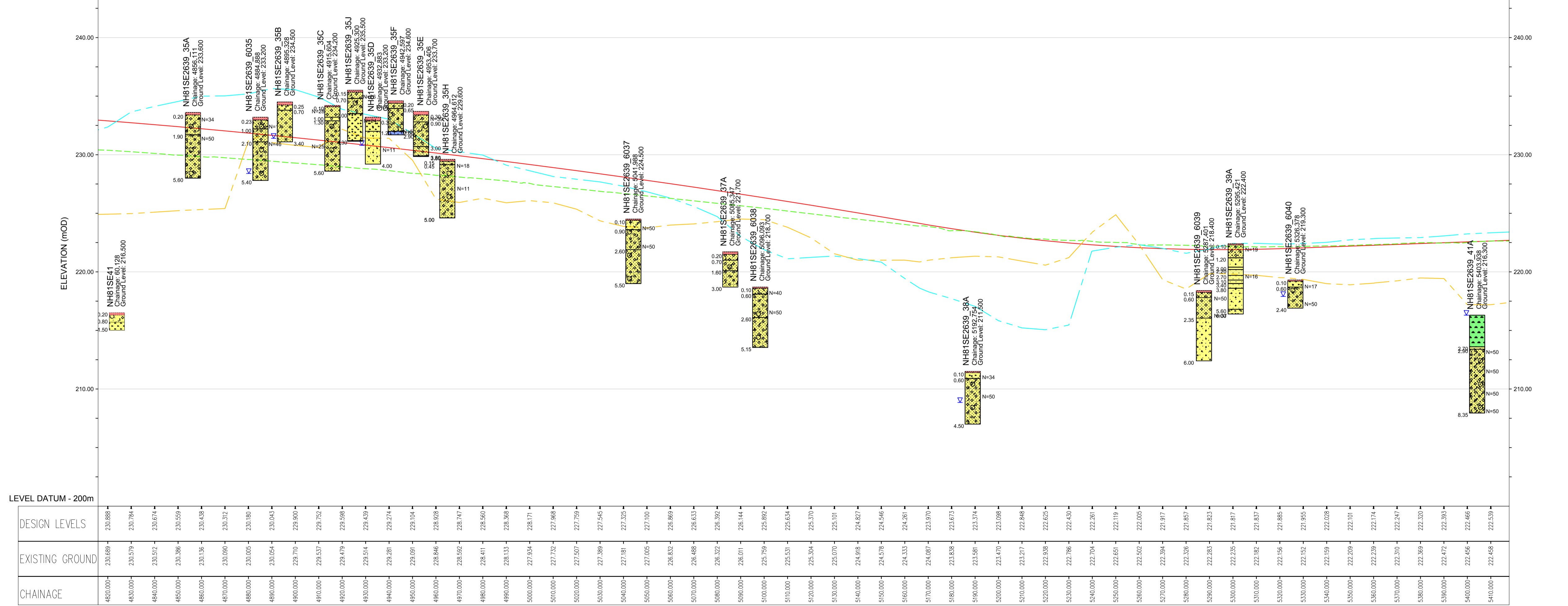


- NOTES:**
- ALL LEVELS IN mAOD UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
 - ALL DEPTHS SHOWN ARE IN METRES.
 - HISTORICAL BOREHOLE POSITIONS AND LEVELS INFERRED FROM BGS DATABASE TO ACCURACY ± 10m.
- KEY:**
- EXISTING A9
- BGS HISTORICAL GROUND INVESTIGATION:**
- NH82NW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

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

- 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

PLAN SCALE 1:1000



LEVEL DATUM - 200m	DESIGN LEVELS	EXISTING GROUND	CHAINAGE
230.888	230.888	230.888	4820.000
230.784	230.784	230.784	4830.000
230.674	230.674	230.674	4840.000
230.559	230.559	230.559	4850.000
230.438	230.438	230.438	4860.000
230.312	230.312	230.312	4870.000
230.190	230.190	230.190	4880.000
230.064	230.064	230.064	4890.000
229.930	229.930	229.930	4900.000
229.792	229.792	229.792	4910.000
229.653	229.653	229.653	4920.000
229.516	229.516	229.516	4930.000
229.374	229.374	229.374	4940.000
229.231	229.231	229.231	4950.000
229.091	229.091	229.091	4960.000
228.944	228.944	228.944	4970.000
228.797	228.797	228.797	4980.000
228.650	228.650	228.650	4990.000
228.503	228.503	228.503	5000.000
228.356	228.356	228.356	5010.000
228.211	228.211	228.211	5020.000
228.068	228.068	228.068	5030.000
227.927	227.927	227.927	5040.000
227.788	227.788	227.788	5050.000
227.651	227.651	227.651	5060.000
227.516	227.516	227.516	5070.000
227.382	227.382	227.382	5080.000
227.244	227.244	227.244	5090.000
227.101	227.101	227.101	5100.000
226.961	226.961	226.961	5110.000
226.823	226.823	226.823	5120.000
226.687	226.687	226.687	5130.000
226.552	226.552	226.552	5140.000
226.418	226.418	226.418	5150.000
226.285	226.285	226.285	5160.000
226.154	226.154	226.154	5170.000
226.024	226.024	226.024	5180.000
225.895	225.895	225.895	5190.000
225.767	225.767	225.767	5200.000
225.641	225.641	225.641	5210.000
225.516	225.516	225.516	5220.000
225.392	225.392	225.392	5230.000
225.269	225.269	225.269	5240.000
225.147	225.147	225.147	5250.000
225.026	225.026	225.026	5260.000
224.906	224.906	224.906	5270.000
224.787	224.787	224.787	5280.000
224.669	224.669	224.669	5290.000
224.552	224.552	224.552	5300.000
224.436	224.436	224.436	5310.000
224.321	224.321	224.321	5320.000
224.207	224.207	224.207	5330.000
224.094	224.094	224.094	5340.000
223.982	223.982	223.982	5350.000
223.871	223.871	223.871	5360.000
223.761	223.761	223.761	5370.000
223.651	223.651	223.651	5380.000
223.542	223.542	223.542	5390.000
223.434	223.434	223.434	5400.000
223.326	223.326	223.326	5410.000

ELEVATION SCALE 1:1000 H 1:200 V

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

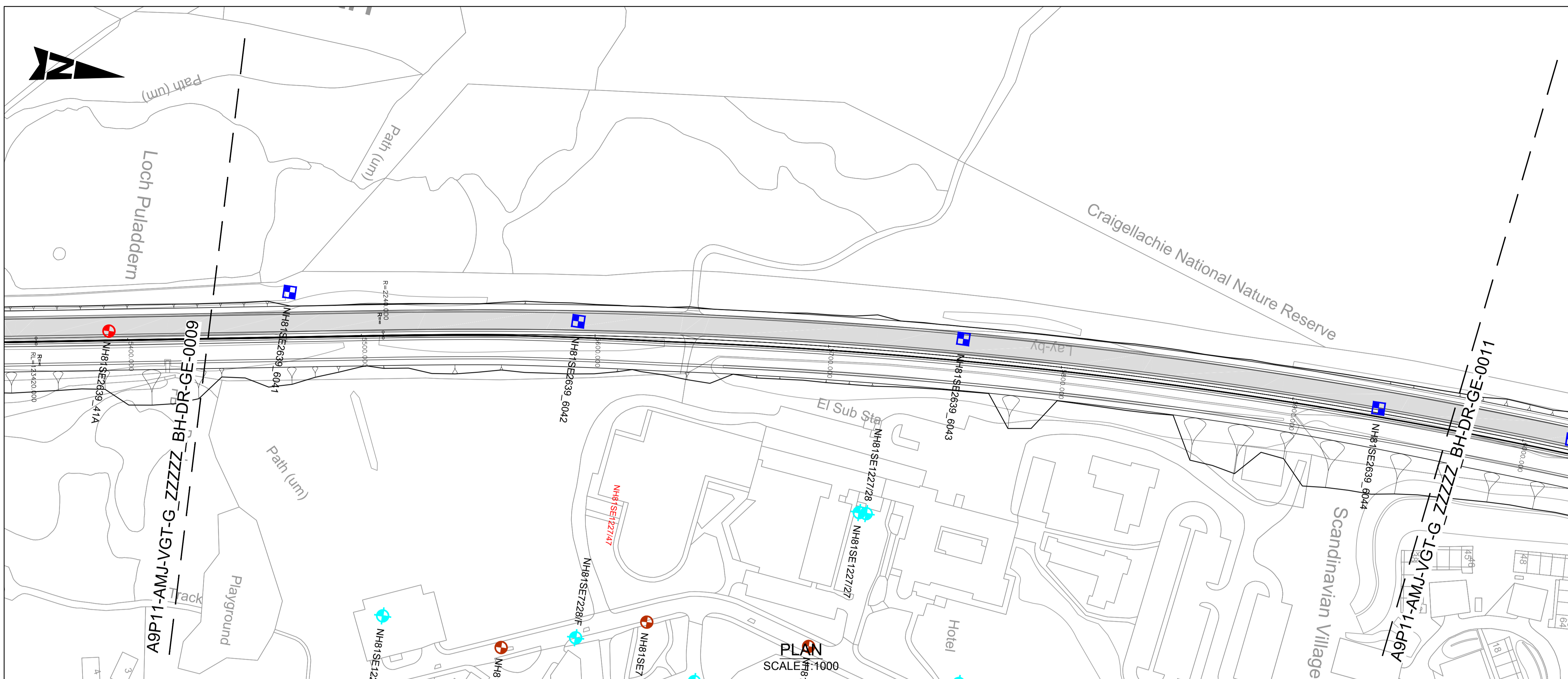
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FINAL	B



Drawing Title
FIGURE 5.20-MAINLINE ALIGNMENT OPTION 1A BOREHOLE PLAN AND LONG SECTION (SHEET 9 OF 41)

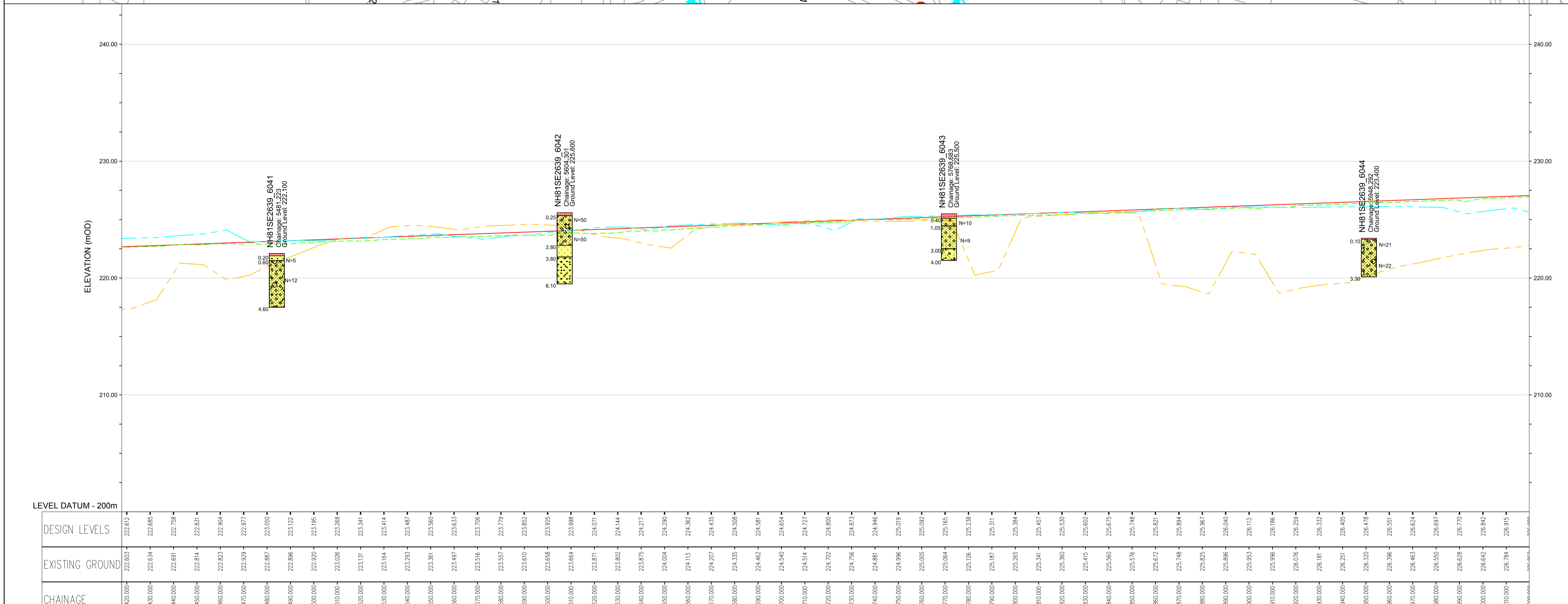
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Original Size	Date	Date	Date	Date
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Drawing Number	Project	Originator	Volume	Revision
	A9P11 - AMJ - VGT - G_ZZZZ_BH - DR - GE - 0009			P01
Location	Type	Role	Number	

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 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				
Drawing Status				Suitability
FINAL				B

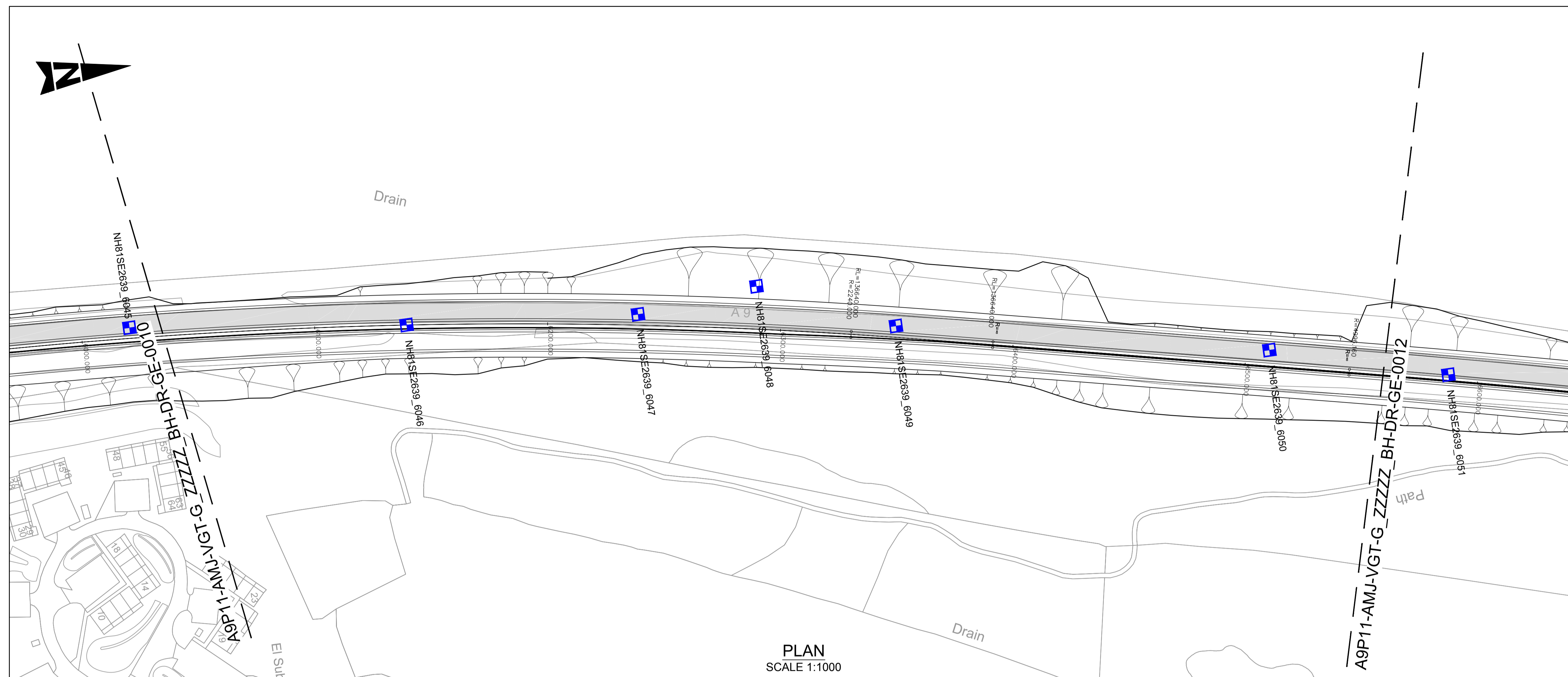
Client				
 An agency of The Scottish Government				
 Dalraddy to Stochd				

Drawing Title				
FIGURE 5.20-MAINLINE ALIGNMENT OPTION 1A 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
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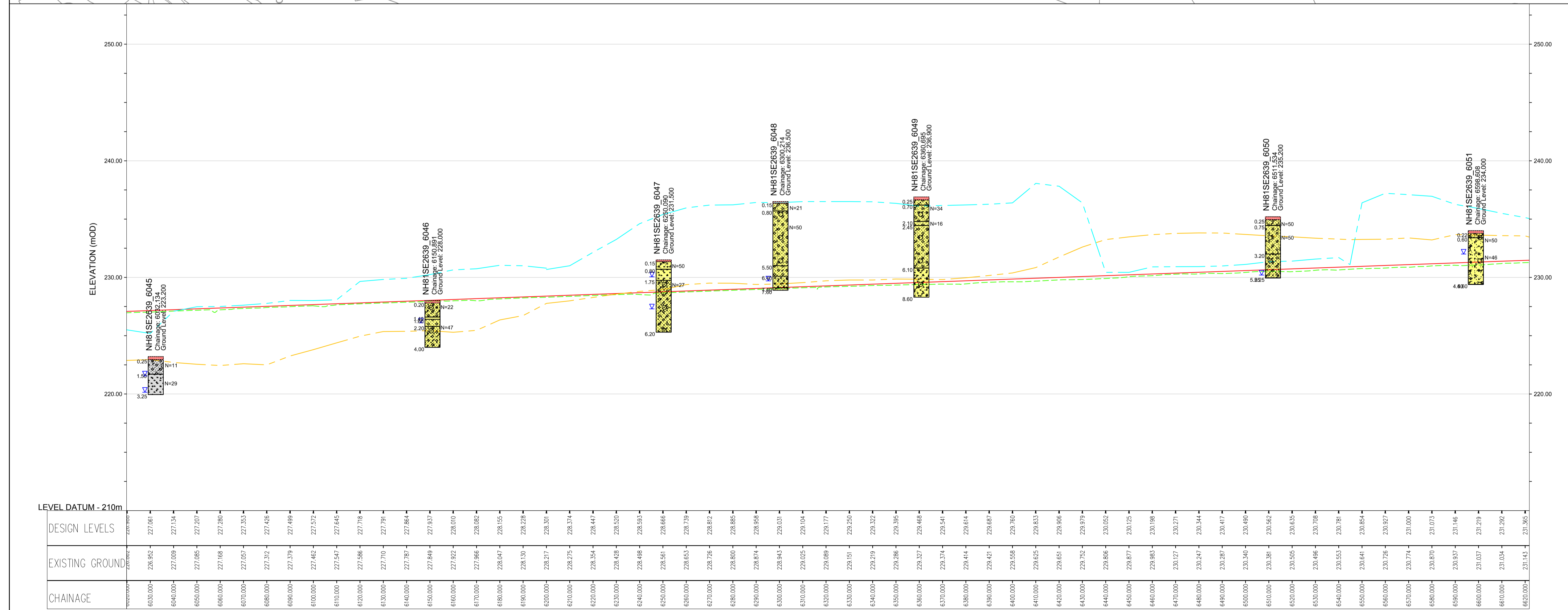
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100
0 10
Millimetres
DO NOT SCALE



- 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 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



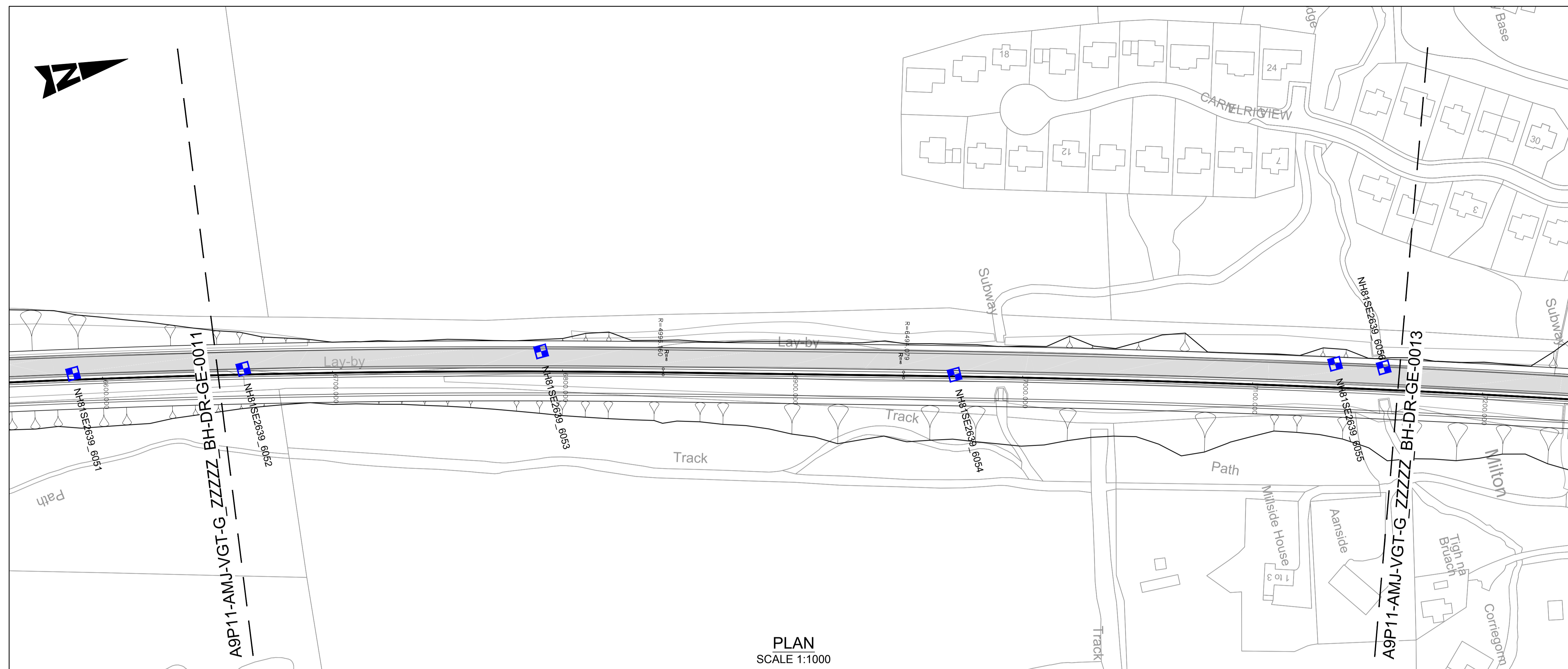
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FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B
Client				
 An agency of The Scottish Government				
 Dalraddy to Slouch				
Drawing Title				
FIGURE 5.20-MAINLINE ALIGNMENT OPTION 1A BOREHOLE 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
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Drawing Number				
Project	Originator	Volume	Revision	
A9P11 - AMJ - VGT - G_ZZZZ_BH - DR - GE - 0011			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:

- 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 TRIAL PIT
NH82NW 1973 TRIAL PIT	NH81SE 2003 BOREHOLE
NH91NW 1977 BOREHOLE	NH81SE 2003 TRIAL PIT
NH91NW 1977 CORE	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 TRIAL PIT	NH82SE 2008 BOREHOLE
NH82SE 2008 BOREHOLE	NH82SE 2008 CORE
NH82SE 2008 CORE	NH82SE 2008 TRIAL PIT

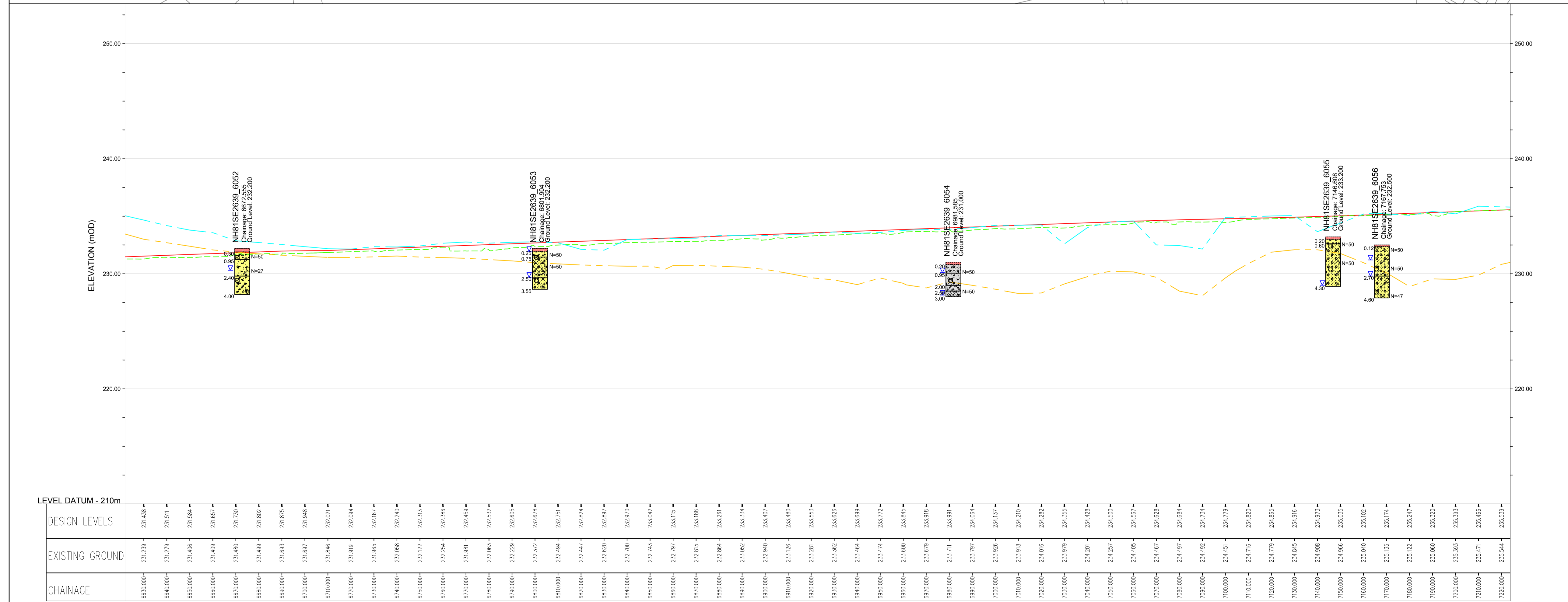
GEOTECHNICAL LONG SECTION KEY:

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



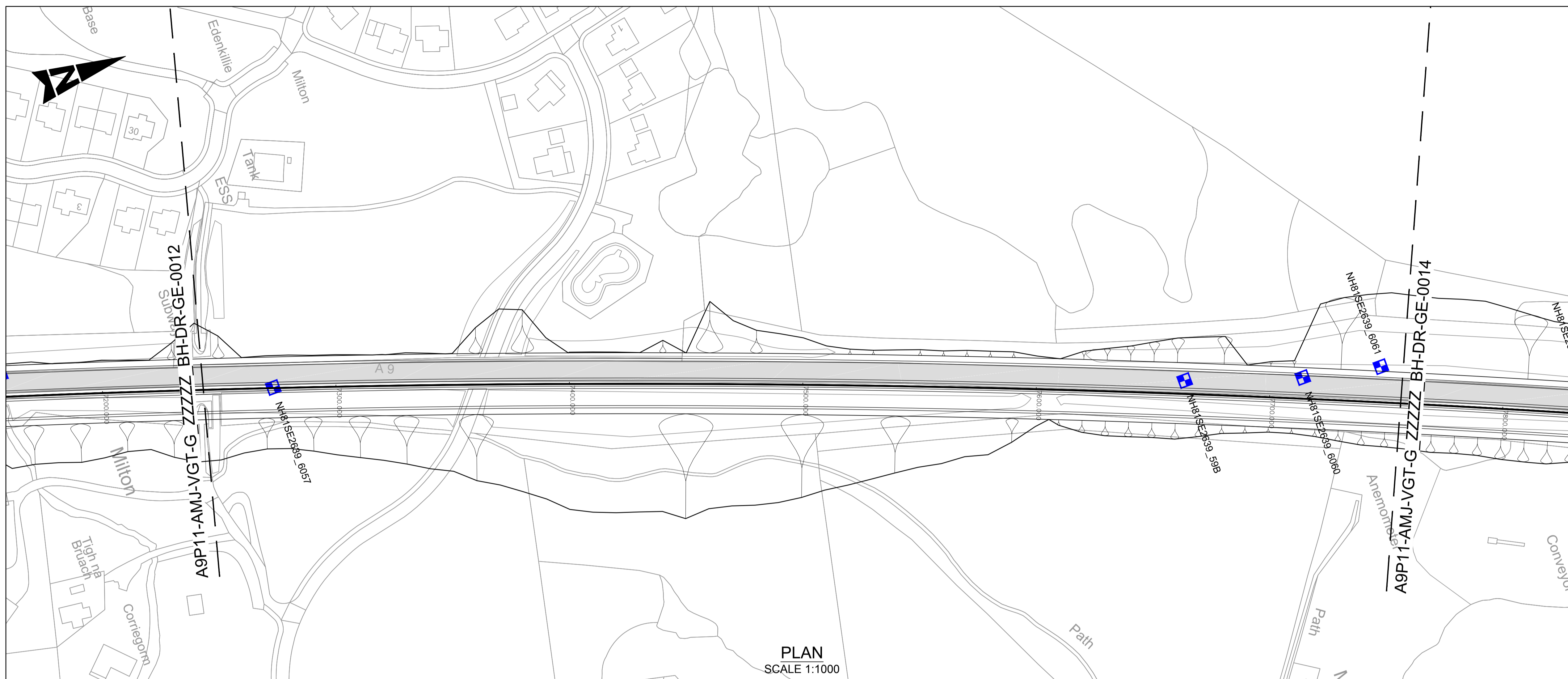
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FIRST ISSUE				
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Description				
Drawing Status				Suitability
FINAL				B
Client				
 An agency of The Scottish Government				
 Dalraddy to Stochd				
Drawing Title				
FIGURE 5.20-MAINLINE ALIGNMENT OPTION 1A 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
A1	02/08/16	03/08/16	03/08/16	05/08/16
Drawing Number				
Project	Originator	Volume	Revision	
A9P11 - AMJ - VGT - G_ZZZZ_BH - DR - GE - 0012			P01	
Location	Type	Role	Number	

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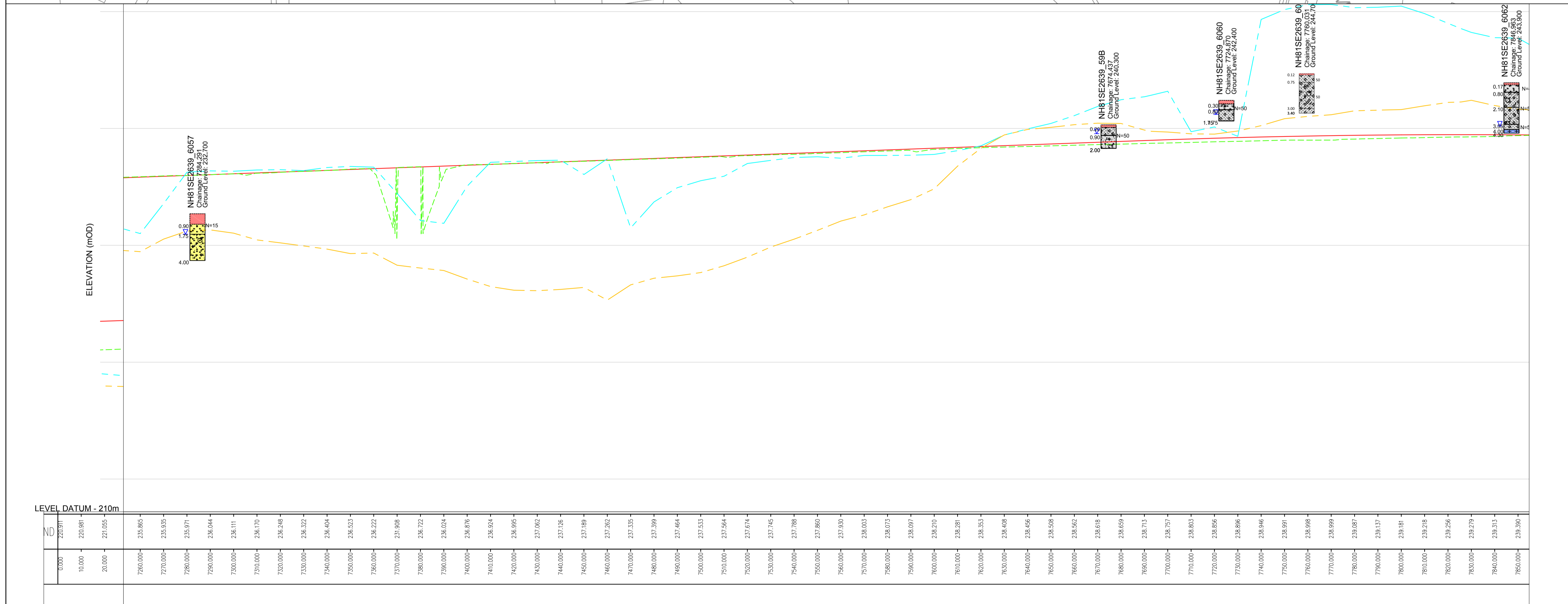
ELEVATION
SCALE 1:1000 H 1:200 V

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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 |
| NH81NW 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 |
| NH81SE 1964 BOREHOLE | NH81SE 1999 CORE |
| NH81SE 1964 CORE | NH81SE 1999 TRIAL PIT |
| NH81SE 1964 TRIAL PIT | 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 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:**
- WATER STRIKE
 - RISE TO IN 20 MINS
 - PROPOSED ROAD LEVEL
 - EXISTING GROUND LEVEL
 - SOUTHBOUND EARTHWORKS LEVEL
 - NORTHBOUND EARTHWORKS LEVEL

PLAN
SCALE 1:1000



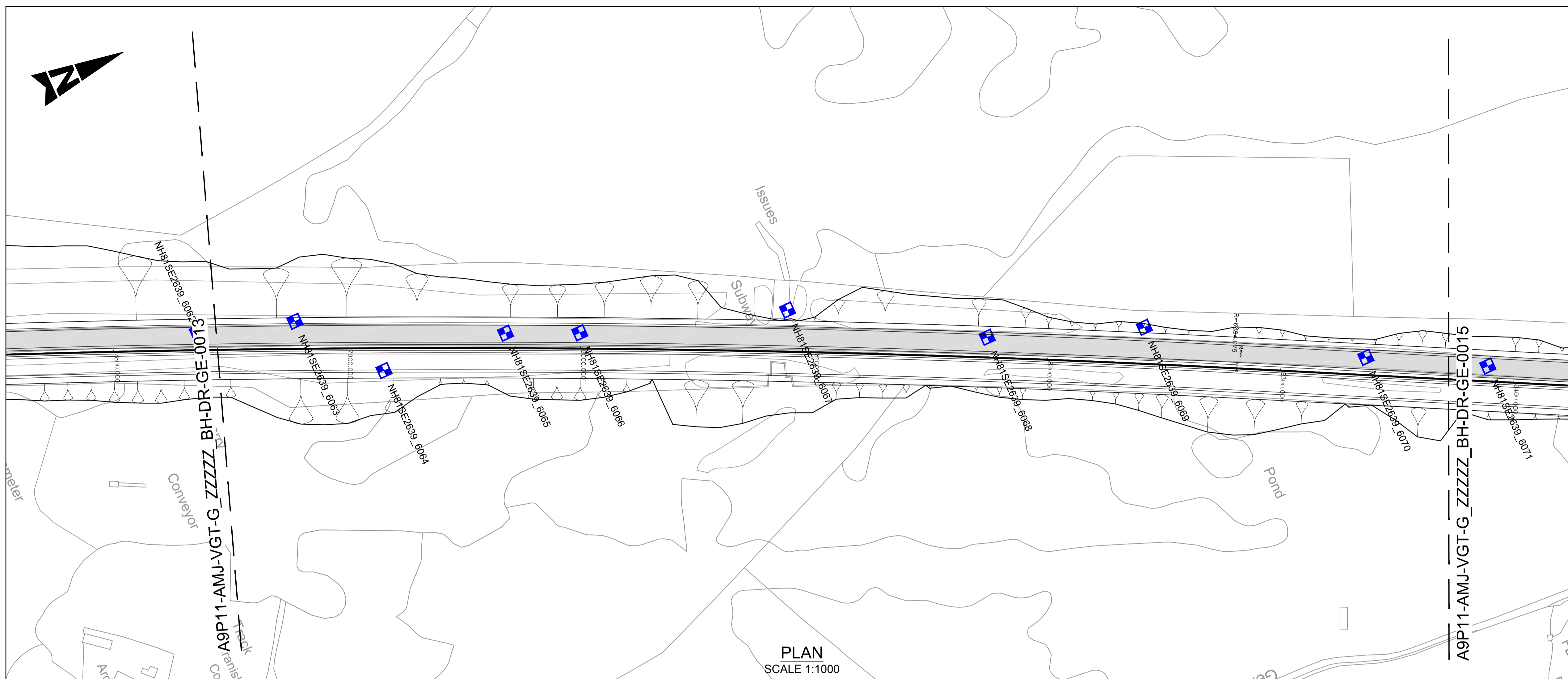
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SCALE 1:1000 H 1:200 V

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				
 Dairdery to Slouch				
Drawing Title				
FIGURE 5.20-MAINLINE ALIGNMENT OPTION 1A 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
A1	02/08/16	03/08/16	03/08/16	05/08/16
Drawing Number				
Project	Originator	Volume	Revision	
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Location	Type	Role	Number	

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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:

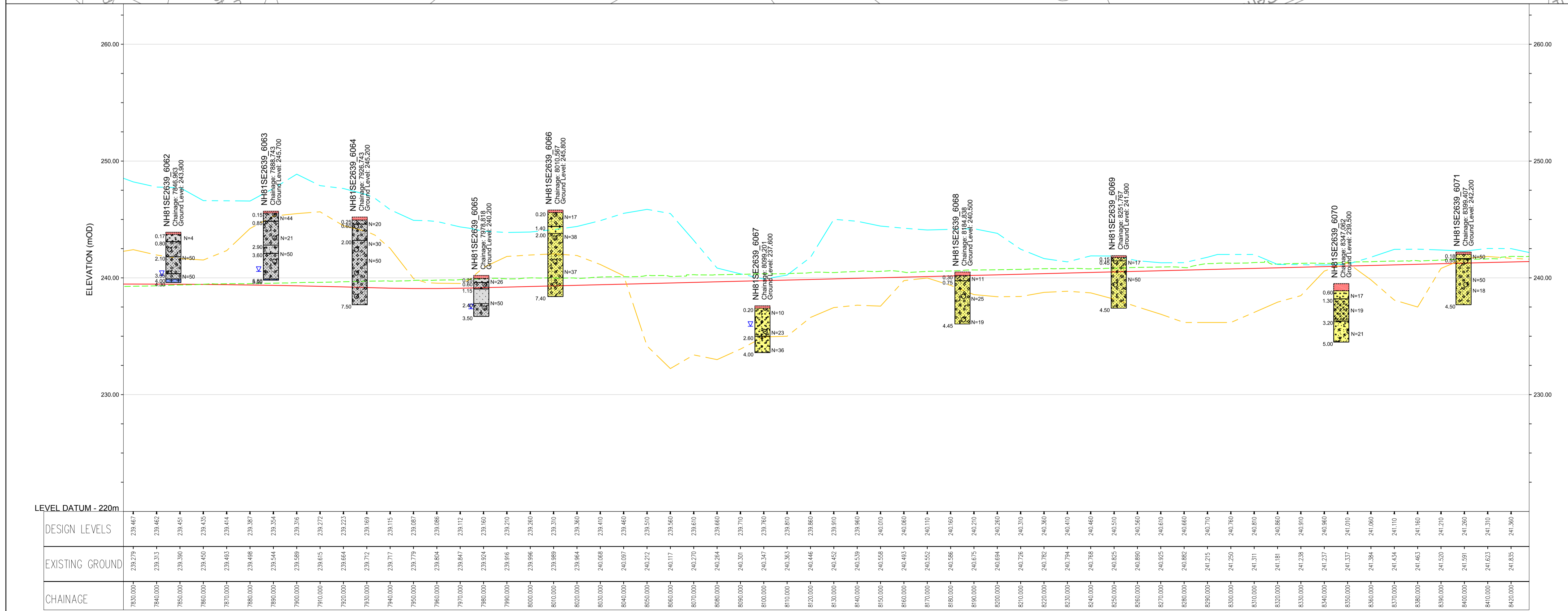
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NH82NW 1973 CORE	NH80NE 1978 CORE
NH82NW 1973 TRIAL PIT	NH80NE 1978 TRIAL PIT
NH81NW 1977 BOREHOLE	NH81SE 2003 BOREHOLE
NH81NW 1977 CORE	NH81SE 2003 CORE
NH81NW 1977 TRIAL PIT	NH81SE 2003 TRIAL PIT
NH81SE 1964 BOREHOLE	NH81SE 1999 BOREHOLE
NH81SE 1964 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 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
DEPTH (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



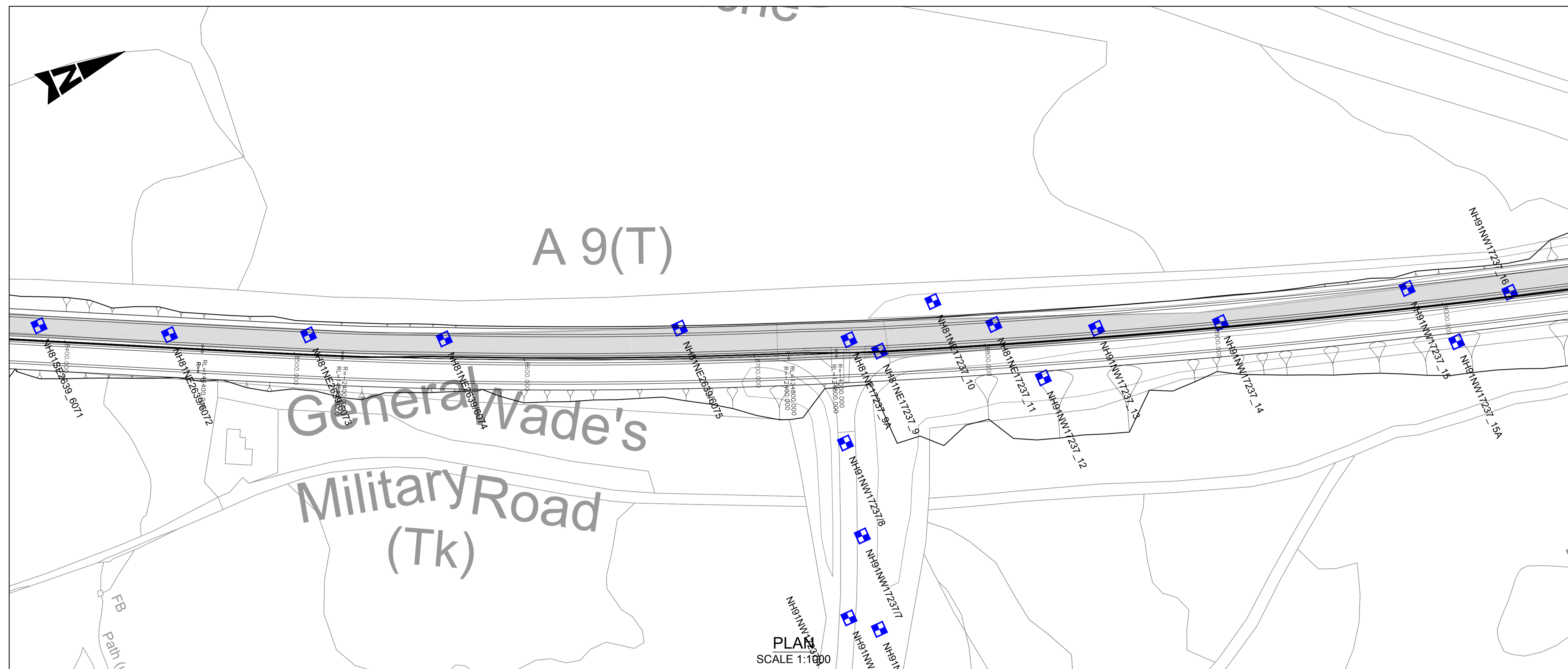
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FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Suitability
FINAL				B
Client				
 An agency of The Scottish Government				
 Dalraddy to Stochd				
Drawing Title				
FIGURE 5.20-MAINLINE ALIGNMENT OPTION 1A BOREHOLE PLAN AND LONG SECTION (SHEET 14 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 - G_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:

- 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 TRIAL PIT
NH91NW 1977 TRIAL PIT	NH81SE 1999 BOREHOLE
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	NH82SE 2008 BOREHOLE
NH82SE 2008 BOREHOLE	NH82SE 2008 CORE
NH82SE 2008 CORE	NH82SE 2008 TRIAL PIT

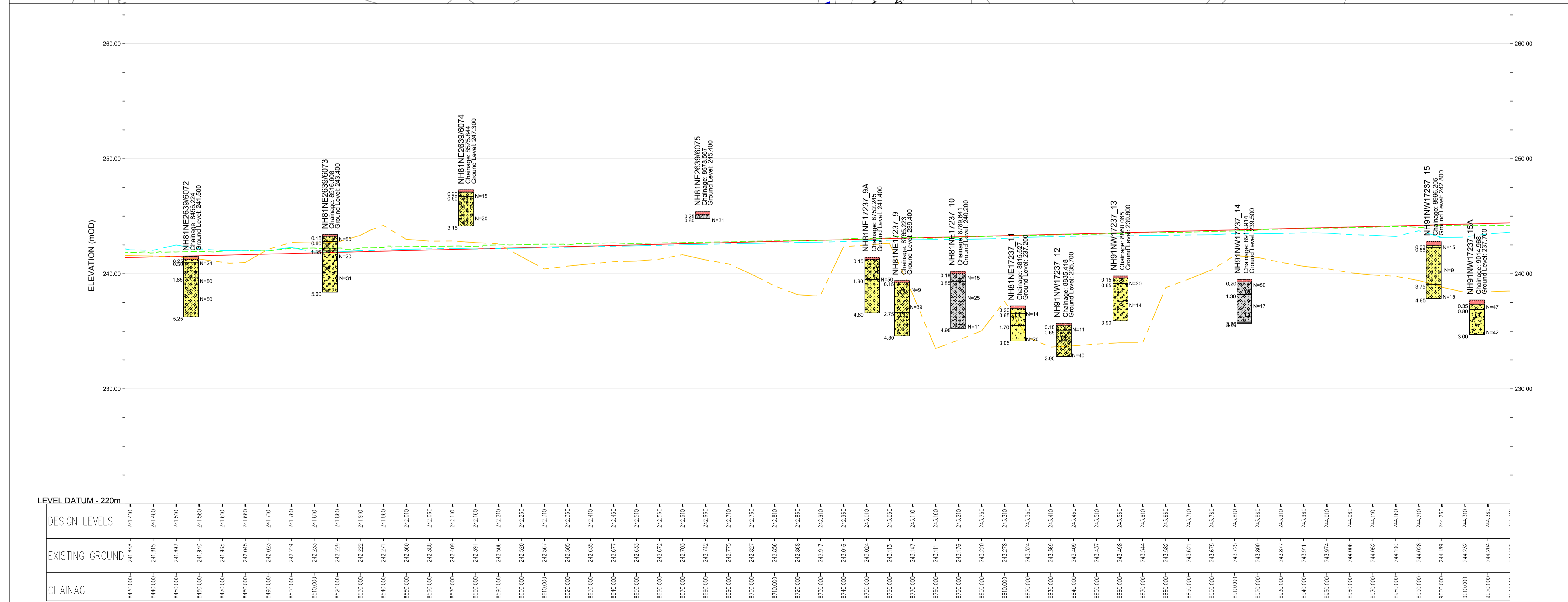
GEOTECHNICAL LONG SECTION KEY:

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

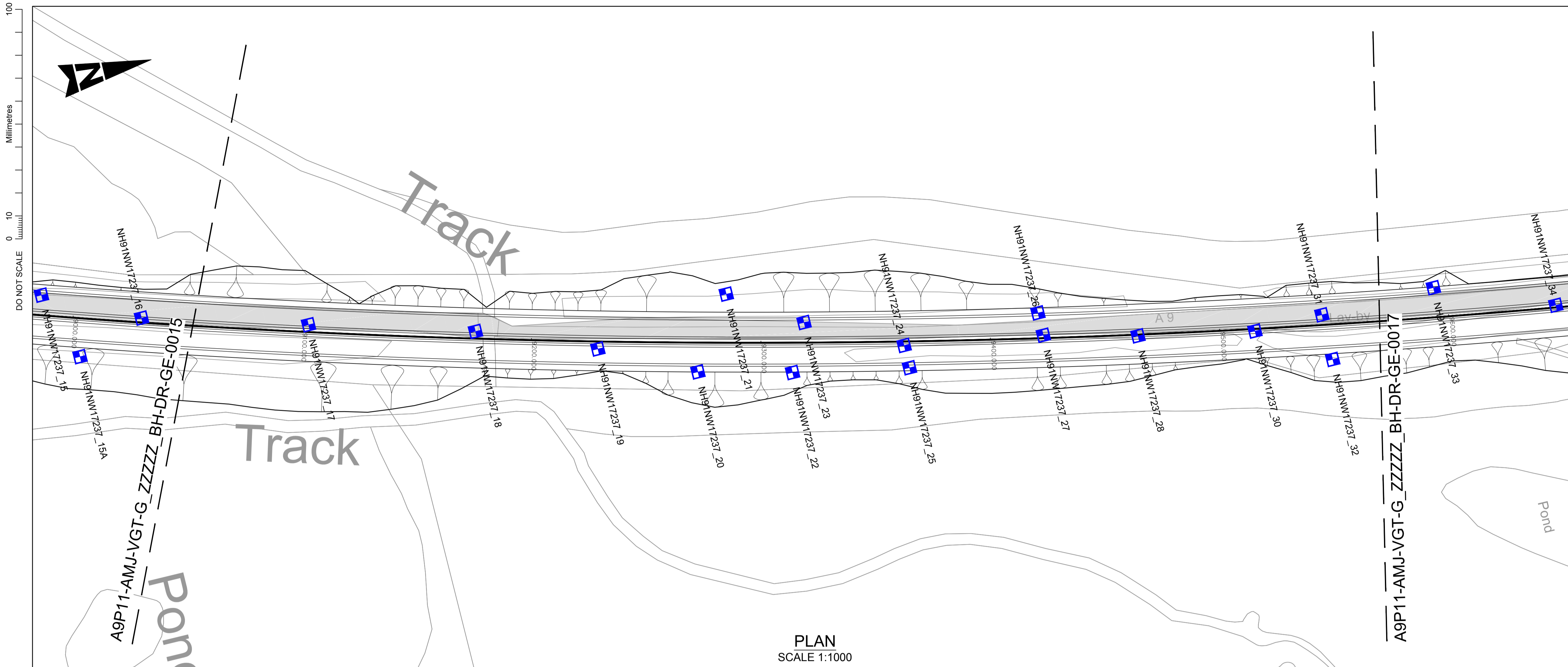


P01	CC	KP	KP	05/08/16
FIRST ISSUE				
Rev	Drawn / Des	Checked	Approved	Date
Description				
Drawing Status				Subtability
FINAL				B
Client				
 An agency of The Scottish Government				
 Dalraddy to Stochd				
Drawing Title				
FIGURE 5.20-MAINLINE ALIGNMENT OPTION 1A BOREHOLE PLAN AND LONG SECTION (SHEET 15 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 -	G_ZZZZ_BH - DR - GE - 0015		P01	
Location	Type	Role	Number	

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ELEVATION
SCALE 1:1000 H:1:200 V



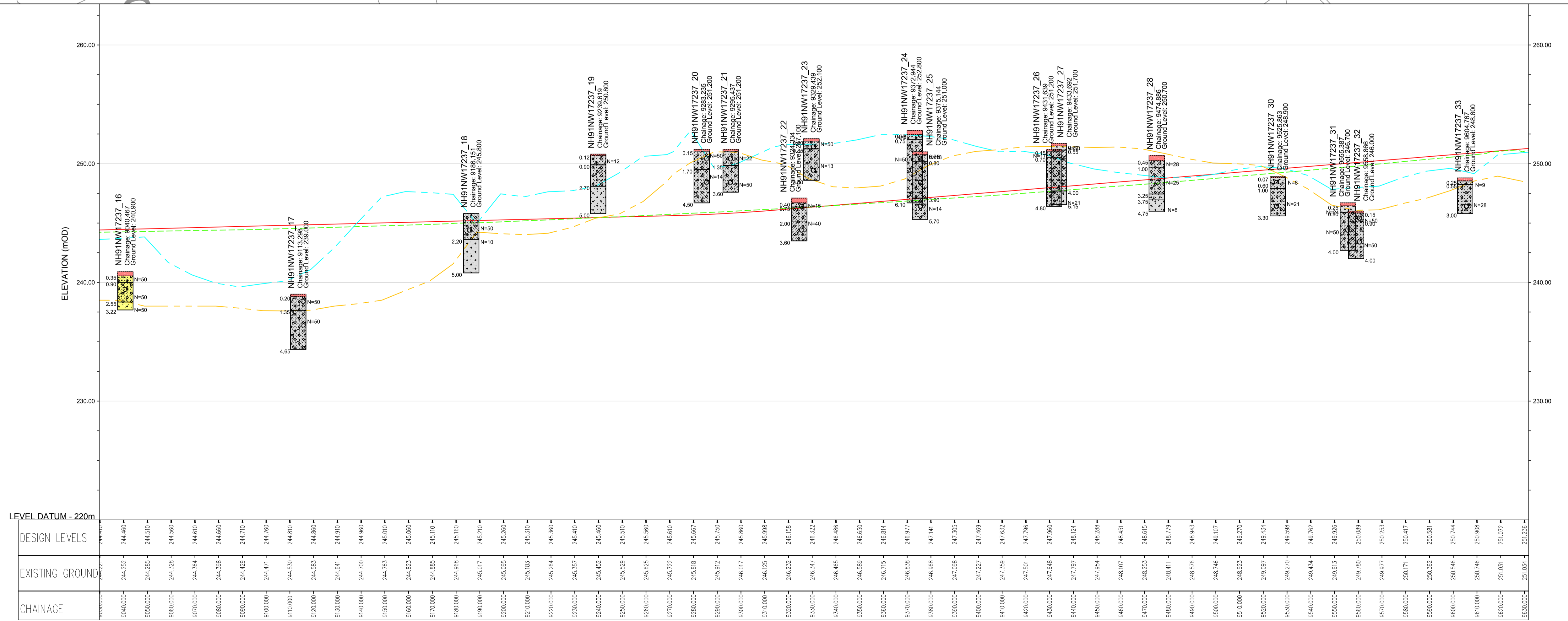
- NOTES:
- ALL LEVELS IN mAOD UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
 - ALL DEPTHS SHOWN ARE IN METRES.
 - HISTORICAL BOREHOLE POSITIONS AND LEVELS INFERRED FROM BGS DATABASE TO ACCURACY ± 10m.

- 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 | 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
DEPTH (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



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

Client
TRANSPORT SCOTLAND
An agency of The Scottish Government



ATKINS mouchel

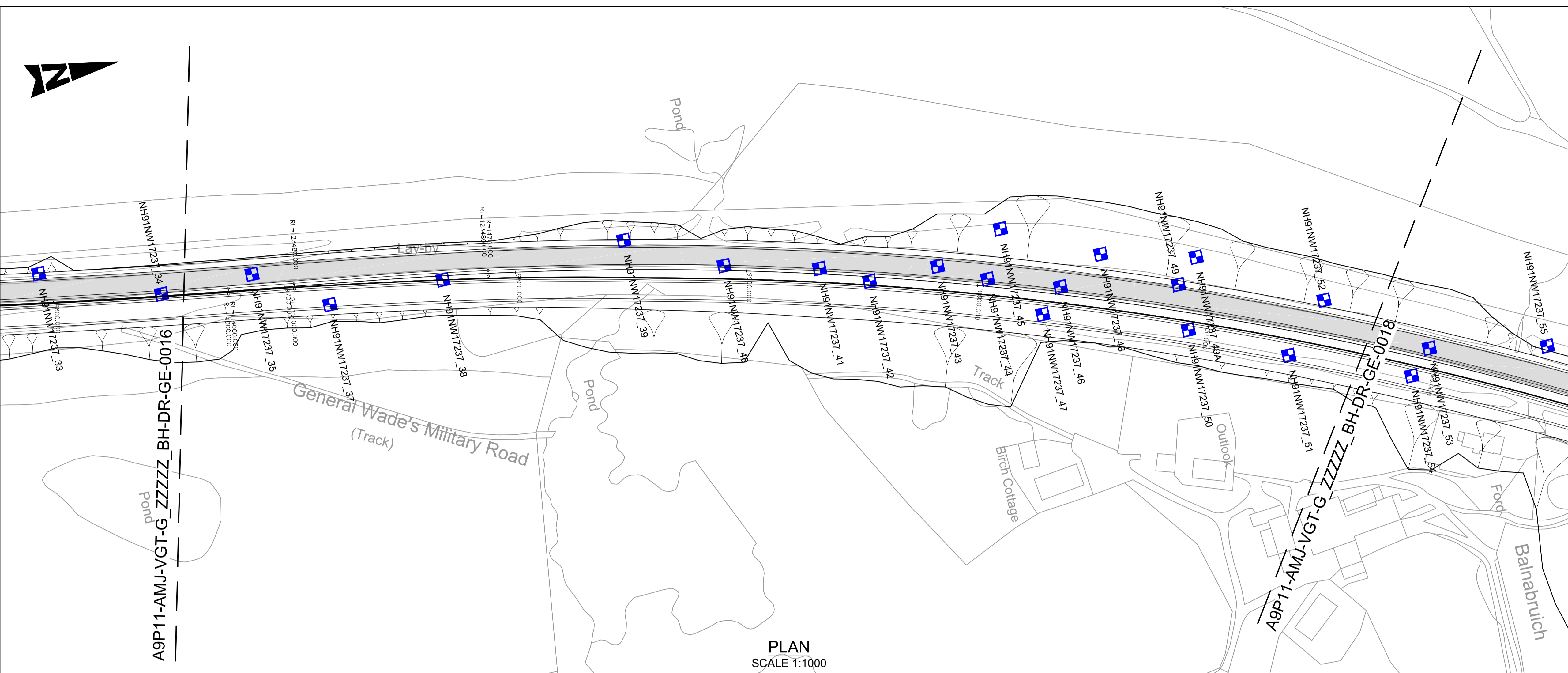
Drawing Title
FIGURE 5.20-MAINLINE ALIGNMENT OPTION 1A BOREHOLE PLAN AND LONG SECTION (SHEET 16 OF 41)

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

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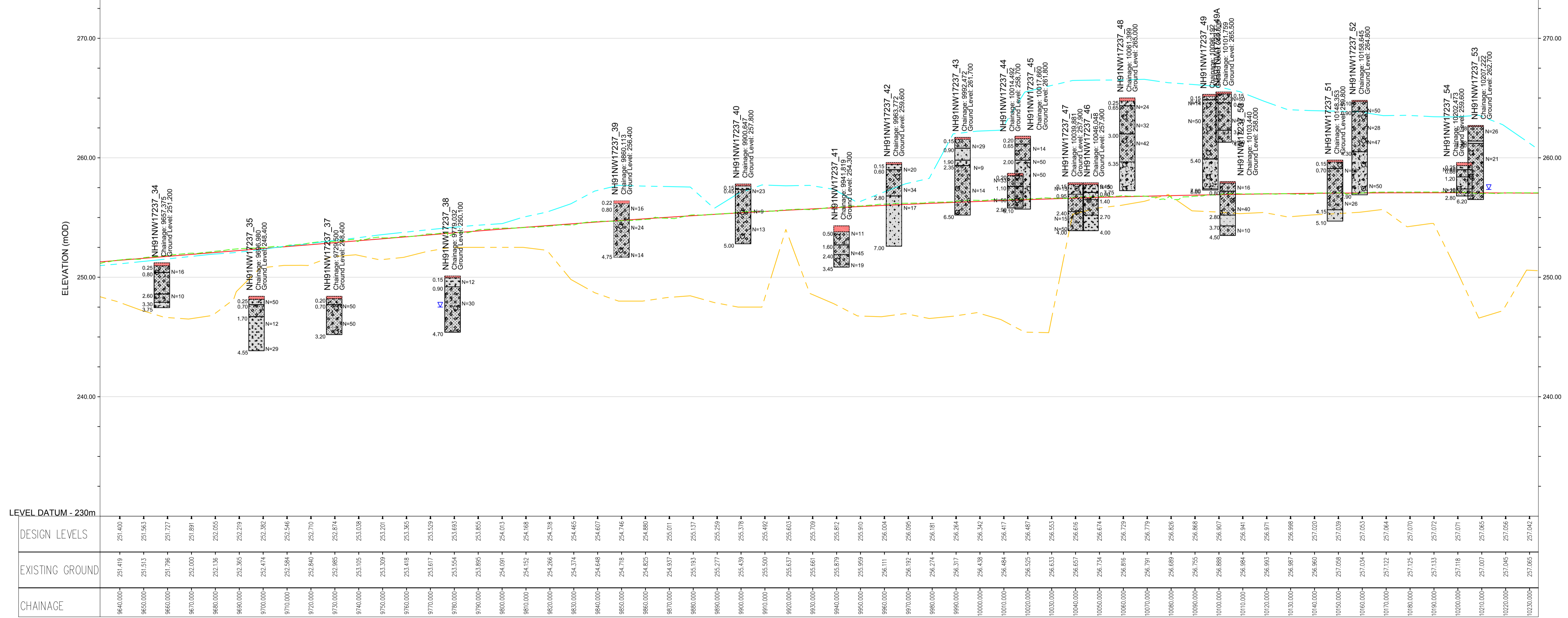
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100
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Millimetres
DO NOT SCALE



PLAN
SCALE 1:1000

- NOTES:**
- ALL LEVELS IN m AOD 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 | 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



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



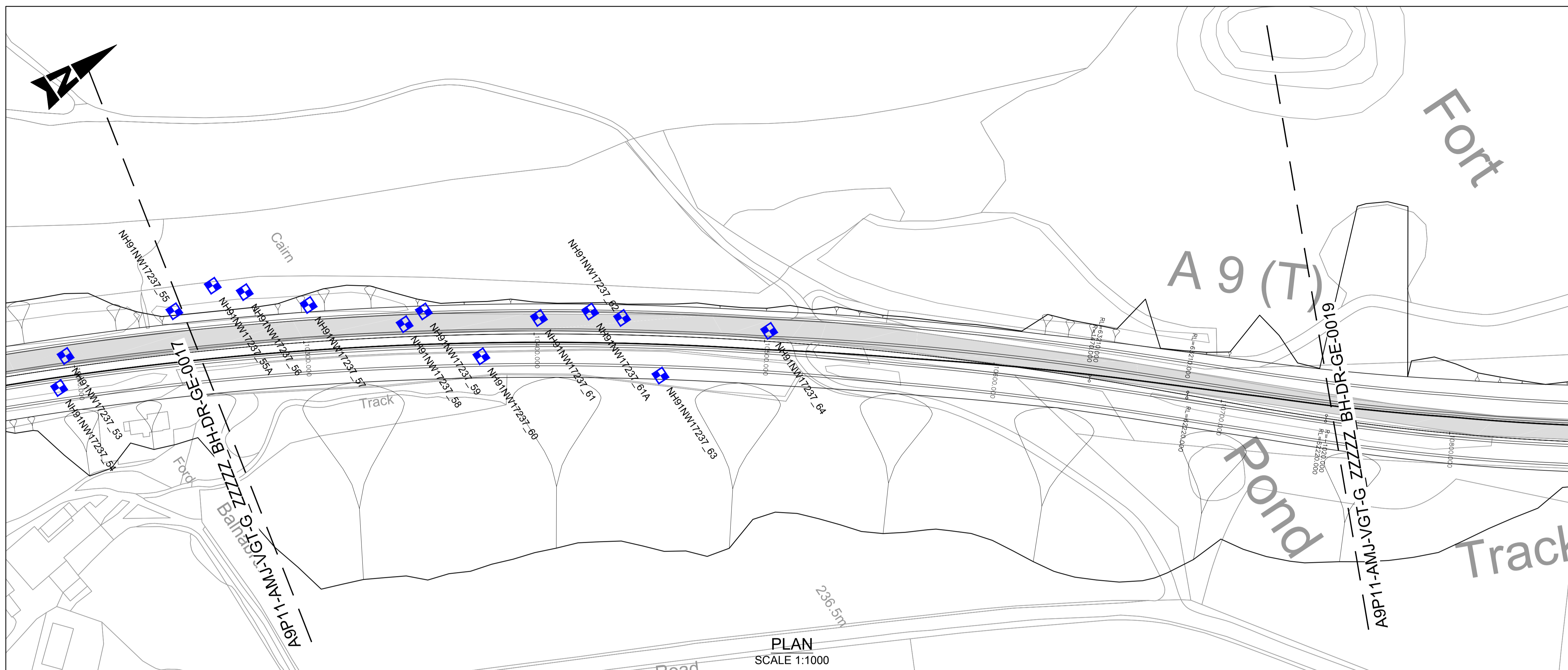
FIGURE 5.20-MAINLINE ALIGNMENT OPTION 1A
BOREHOLE PLAN AND LONG SECTION
(SHEET 17 OF 41)

Scale	Designed / Drawn	Checked	Approved	Authorised
AS SHOWN	CC	KP	KP	RG
Original Size	Date	Date	Date	Date
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Location	Type	Role	Number	

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Millimetres
DO NOT SCALE

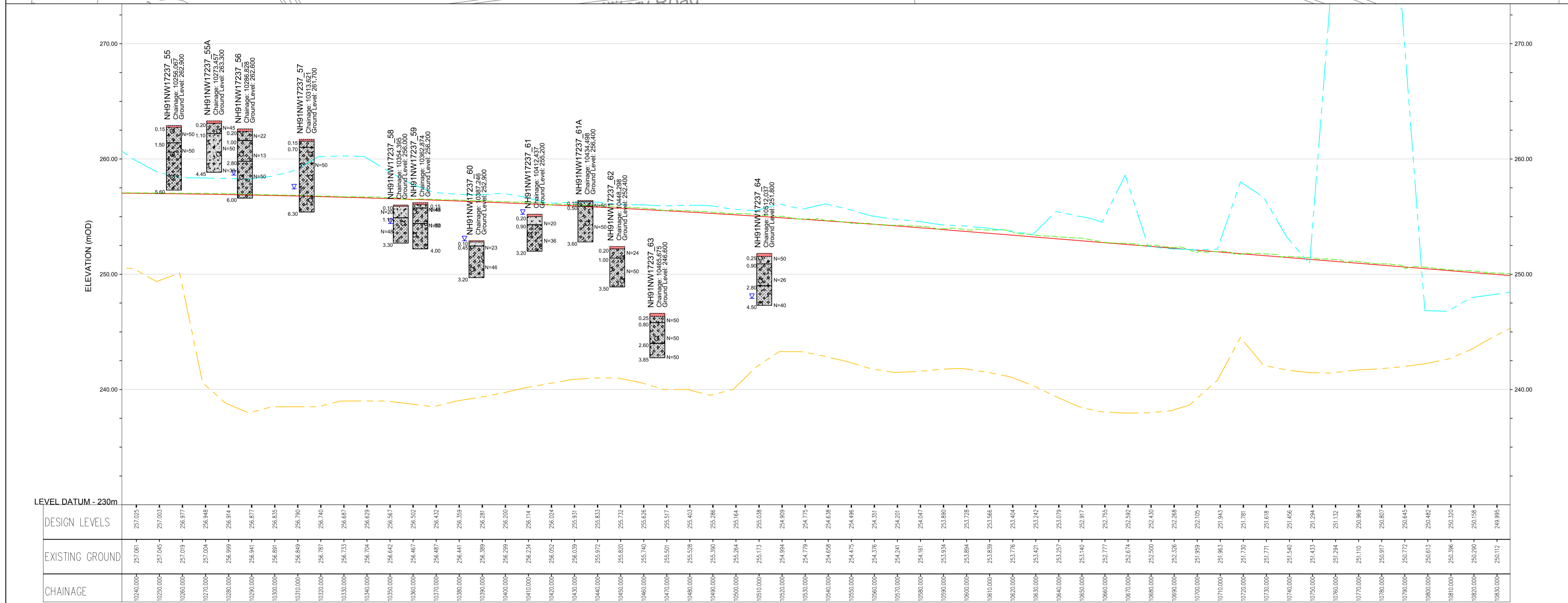


- NOTES:
- ALL LEVELS IN mAOD UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
 - ALL DEPTHS SHOWN ARE IN METRES.
 - HISTORICAL BOREHOLE POSITIONS AND LEVELS INFERRED FROM BGS DATABASE TO ACCURACY ± 10m.

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

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

- NOTE:
- COMPOSITE SOIL TYPES WILL BE SIGNIFIED BY COMBINED SYMBOLS E.G. SILTY SAND
- DEPTH (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



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



Drawing Title
FIGURE 5.20-MAINLINE ALIGNMENT OPTION 1A
BOREHOLE PLAN AND LONG SECTION
(SHEET 18 OF 41)

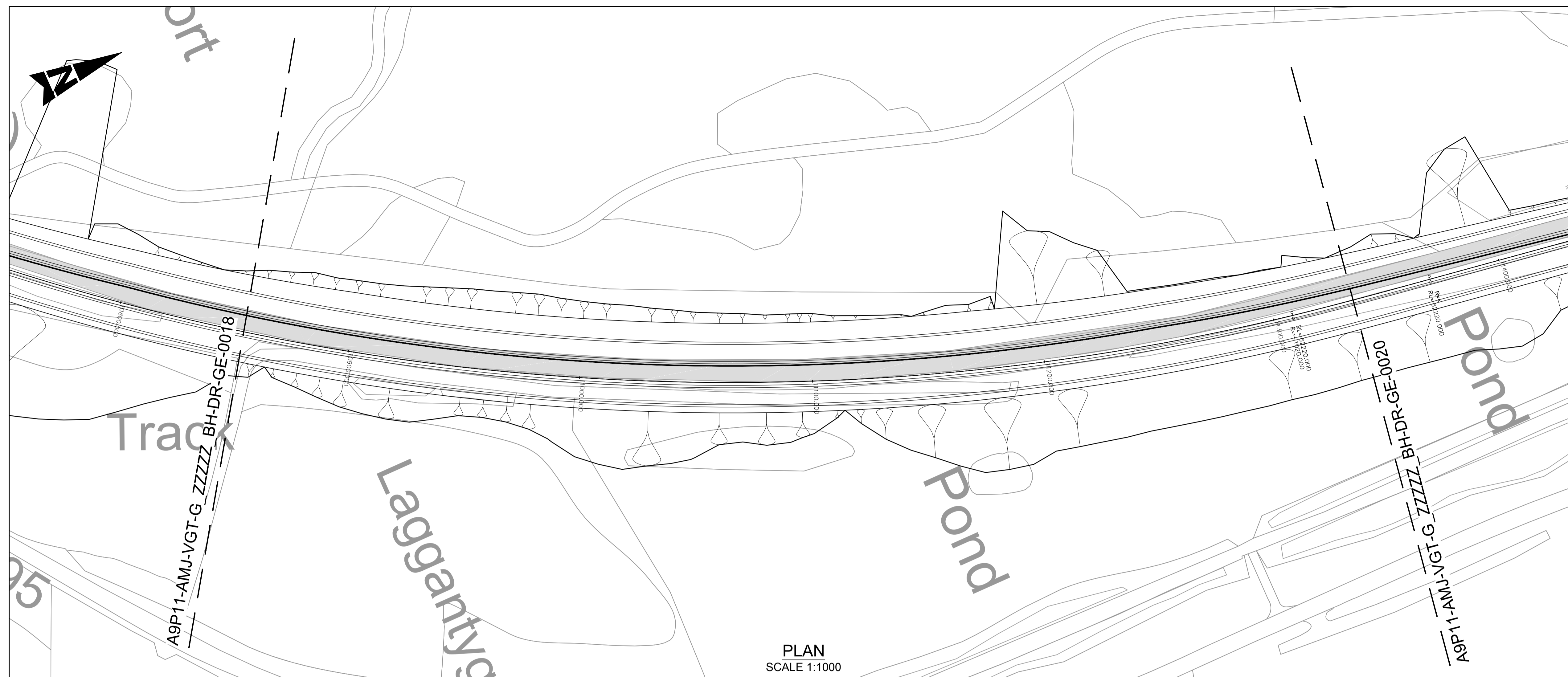
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Original Size	Date	Date	Date	Date
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Drawing Number	Project	Originator	Volume	Revision
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Location	Type	Role	Number	

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ELEVATION
SCALE 1:1000 H 1:200 V

100
0 10
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 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

LEVEL DATUM - 230m	DESIGN LEVELS	EXISTING GROUND	CHAINAGE
	248.833	250.017	10840.000
	249.671	249.833	10850.000
	249.508	249.678	10860.000
	249.346	249.466	10870.000
	249.184	249.326	10880.000
	249.022	249.146	10890.000
	248.859	248.977	10900.000
	248.697	248.858	10910.000
	248.535	248.713	10920.000
	248.372	248.535	10930.000
	248.210	248.451	10940.000
	248.048	248.306	10950.000
	247.885	248.231	10960.000
	247.723	248.051	10970.000
	247.561	247.979	10980.000
	247.398	247.907	10990.000
	247.236	247.858	11000.000
	247.084	247.789	11010.000
	246.959	246.655	11020.000
	246.861	246.644	11030.000
	246.789	247.613	11040.000
	246.745	247.602	11050.000
	246.728	247.521	11060.000
	246.738	247.539	11070.000
	246.775	247.494	11080.000
	246.839	247.481	11090.000
	246.930	247.515	11100.000
	247.047	247.511	11110.000
	247.174	247.500	11120.000
	247.301	247.544	11130.000
	247.428	247.595	11140.000
	247.555	247.705	11150.000
	247.682	247.767	11160.000
	247.809	247.781	11170.000
	247.936	247.918	11180.000
	248.063	247.931	11190.000
	248.190	248.004	11200.000
	248.317	248.028	11210.000
	248.444	248.208	11220.000
	248.570	248.327	11230.000
	248.697	248.421	11240.000
	248.824	248.597	11250.000
	248.951	248.677	11260.000
	249.078	248.844	11270.000
	249.205	248.958	11280.000
	249.332	249.038	11290.000
	249.459	249.183	11300.000
	249.586	249.335	11310.000
	249.713	249.511	11320.000
	249.840	249.547	11330.000
	249.967	249.709	11340.000
	250.094	249.754	11350.000
	250.221	249.816	11360.000
	250.348	249.901	11370.000
	250.475	250.000	11380.000
	250.602	250.099	11390.000
	250.729	250.229	11400.000
	250.855	250.391	11410.000
	250.982	250.527	11420.000
	251.109	250.641	11430.000

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

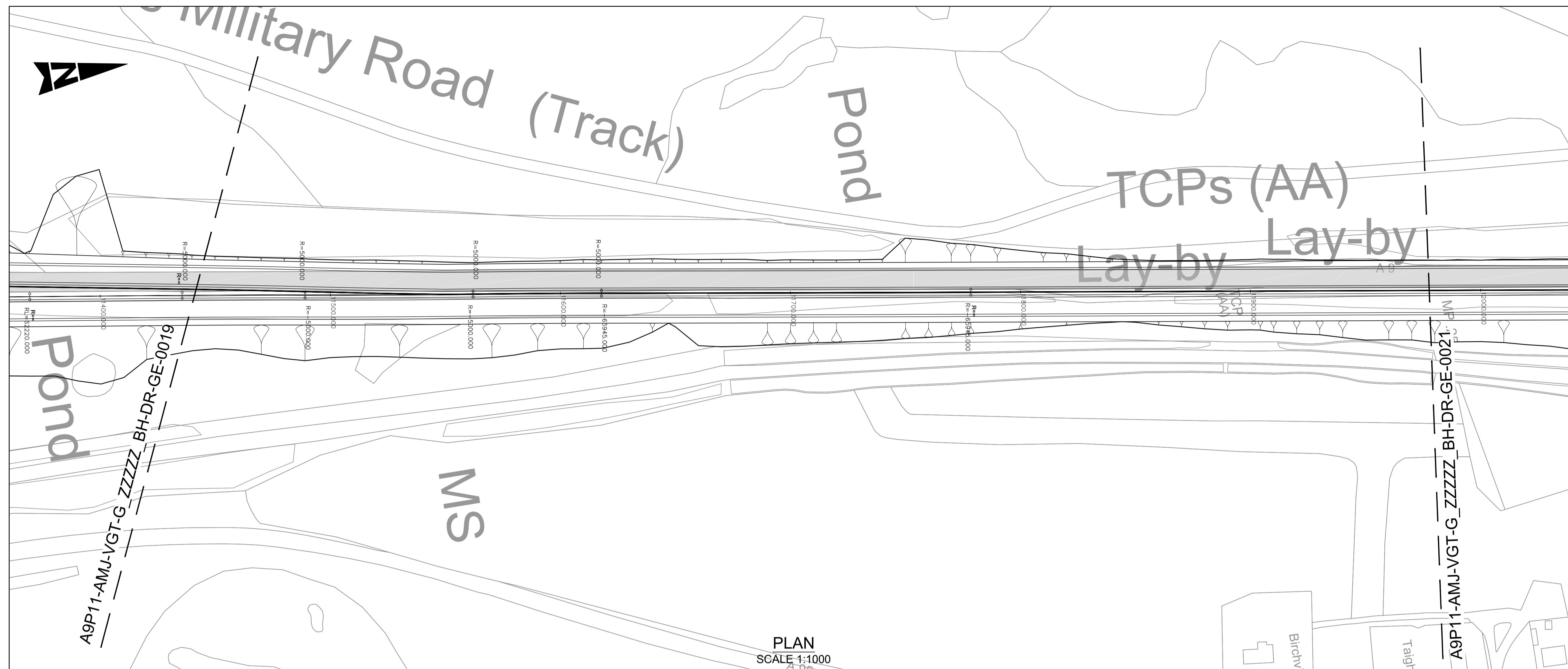
Client				
 An agency of The Scottish Government				
 Dalraddy to Stochd				

**FIGURE 5.20-MAINLINE ALIGNMENT OPTION 1A
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
Drawing Number				
Project	Originator	Volume	Revision	
A9P11 - AMJ - VGT - G_ZZZZ_BH - DR - GE - 0019			P01	
Location	Type	Role	Number	

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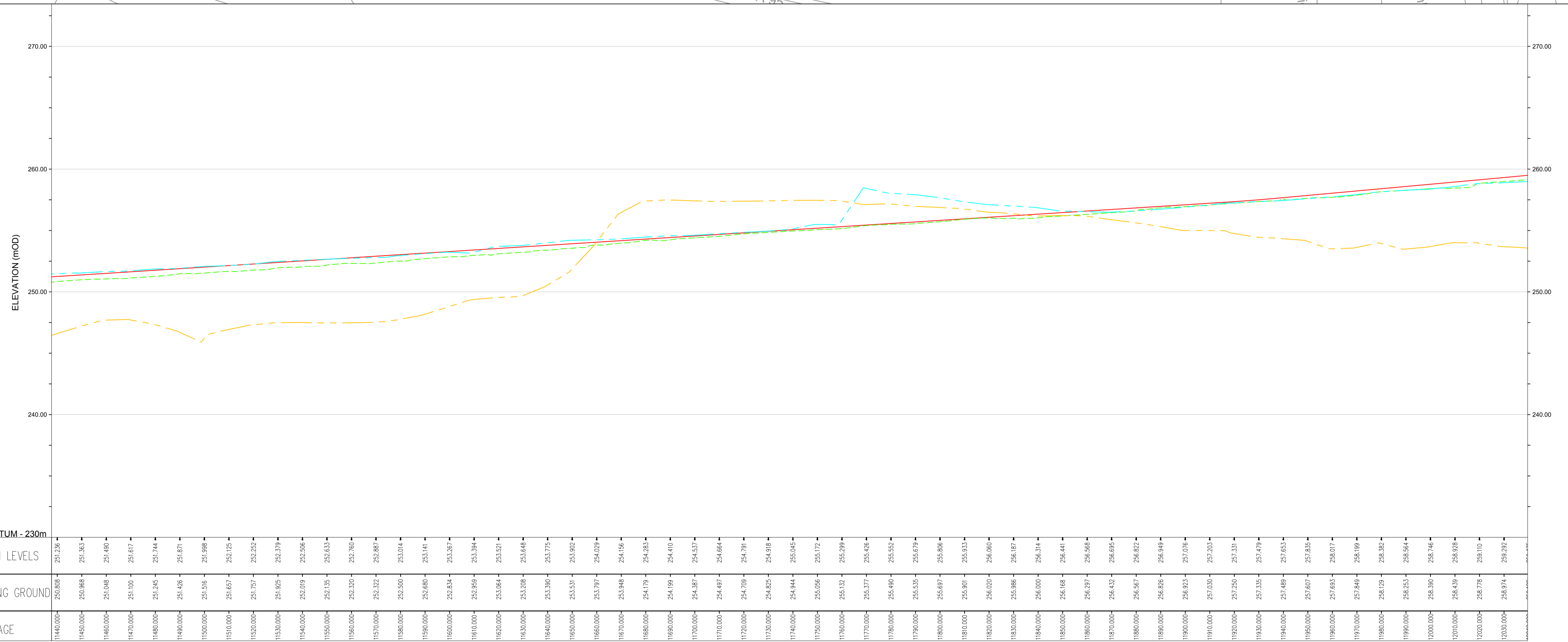
PLAN
SCALE 1:1000

- NOTES:**
- ALL LEVELS IN mAOD UNLESS OTHERWISE NOTED. ALL DIMENSIONS ARE IN METRES UNLESS OTHERWISE NOTED.
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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 | NH81SE 1978 TRIAL PIT |
| NH91NW 1977 BOREHOLE | NH81SE 2003 BOREHOLE |
| NH91NW 1977 CORE | NH81SE 2003 CORE |
| NH91NW 1977 TRIAL PIT | NH81SE 1999 BOREHOLE |
| NH81SE 1964 BOREHOLE | NH81SE 1999 CORE |
| NH81SE 1964 CORE | 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.

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



LEVEL DATUM - 230m	CHAINAGE	DESIGN LEVELS	EXISTING GROUND
	11440.000	251.236	250.808
	11450.000	251.383	250.966
	11460.000	251.048	251.048
	11470.000	251.617	251.100
	11480.000	251.744	251.245
	11490.000	251.420	251.420
	11500.000	251.516	251.516
	11510.000	251.657	251.657
	11520.000	251.757	252.262
	11530.000	251.920	252.379
	11540.000	252.019	252.506
	11550.000	252.139	252.633
	11560.000	252.230	252.760
	11570.000	252.327	252.887
	11580.000	252.500	253.014
	11590.000	252.680	253.141
	11600.000	252.834	253.267
	11610.000	252.959	253.394
	11620.000	253.064	253.521
	11630.000	253.208	253.648
	11640.000	253.330	253.775
	11650.000	253.533	253.902
	11660.000	253.707	254.029
	11670.000	253.946	254.156
	11680.000	254.179	254.283
	11690.000	254.199	254.410
	11700.000	254.387	254.537
	11710.000	254.407	254.664
	11720.000	254.700	254.791
	11730.000	254.820	254.918
	11740.000	254.944	255.045
	11750.000	255.056	255.172
	11760.000	255.132	255.299
	11770.000	255.377	255.426
	11780.000	255.490	255.552
	11790.000	255.535	255.679
	11800.000	255.697	255.806
	11810.000	255.901	255.933
	11820.000	256.020	256.060
	11830.000	256.096	256.187
	11840.000	256.000	256.314
	11850.000	256.168	256.441
	11860.000	256.291	256.568
	11870.000	256.437	256.695
	11880.000	256.597	256.822
	11890.000	256.820	256.949
	11900.000	256.921	257.076
	11910.000	257.020	257.203
	11920.000	257.250	257.330
	11930.000	257.330	257.479
	11940.000	257.489	257.653
	11950.000	257.607	257.835
	11960.000	257.693	258.017
	11970.000	257.840	258.189
	11980.000	258.129	258.362
	11990.000	258.253	258.544
	12000.000	258.390	258.716
	12010.000	258.439	258.928
	12020.000	258.778	259.110
	12030.000	258.974	259.292

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
Drawing Status				B



FIGURE 5.20-MAINLINE ALIGNMENT OPTION 1A
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
A1	02/08/16	03/08/16	03/08/16	05/08/16
Drawing Number	Project	Originator	Volume	Revision
	A9P11 - AMJ - VGT - G_ZZZZ_BH - DR - GE - 0020			P01
Location	Type	Role	Number	

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