

A1 in Northumberland: Morpeth to Ellingham

Scheme Number: TR010041

6.1 Environmental Statement Appendix 2.2 Technical Drawings

APFP Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed
Forms and Procedure) Regulations 2009

June 2020

Infrastructure Planning

Planning Act 2008

**The Infrastructure Planning
(Applications: Prescribed Forms and
Procedure) Regulations 2009**

**The A1 in Northumberland: Morpeth to Ellingham
Development Consent Order 20[xx]**

Environmental Statement

Regulation Reference:	APFP Regulation 5(2)(a)
Planning Inspectorate Scheme Reference	TR010041
Application Document Reference	TR010041/APP/6.1
Author:	A1 in Northumberland: Morpeth to Ellingham Project Team, Highways England

Version	Date	Status of Version
Rev 0	June 2020	Application Issue

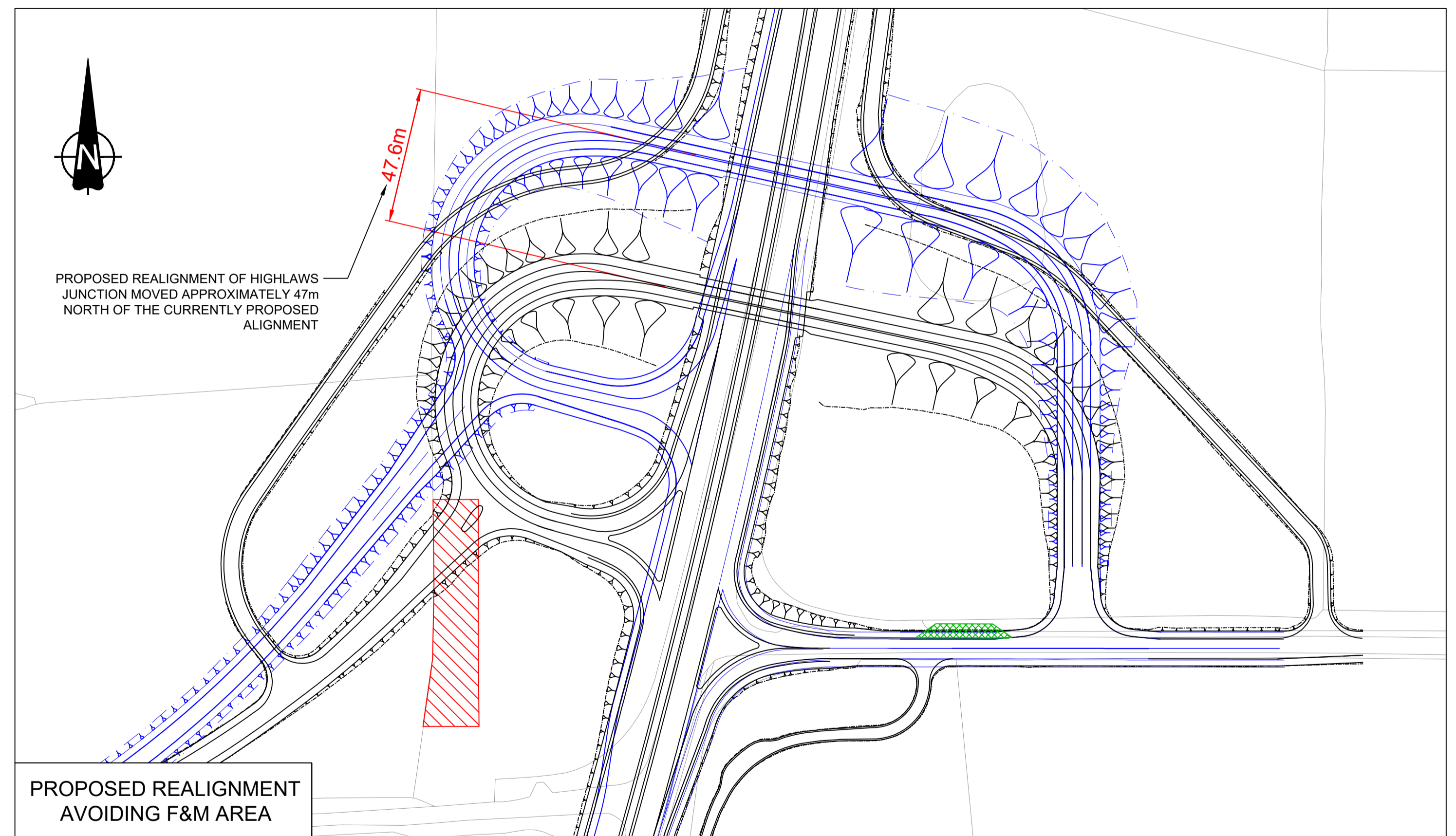
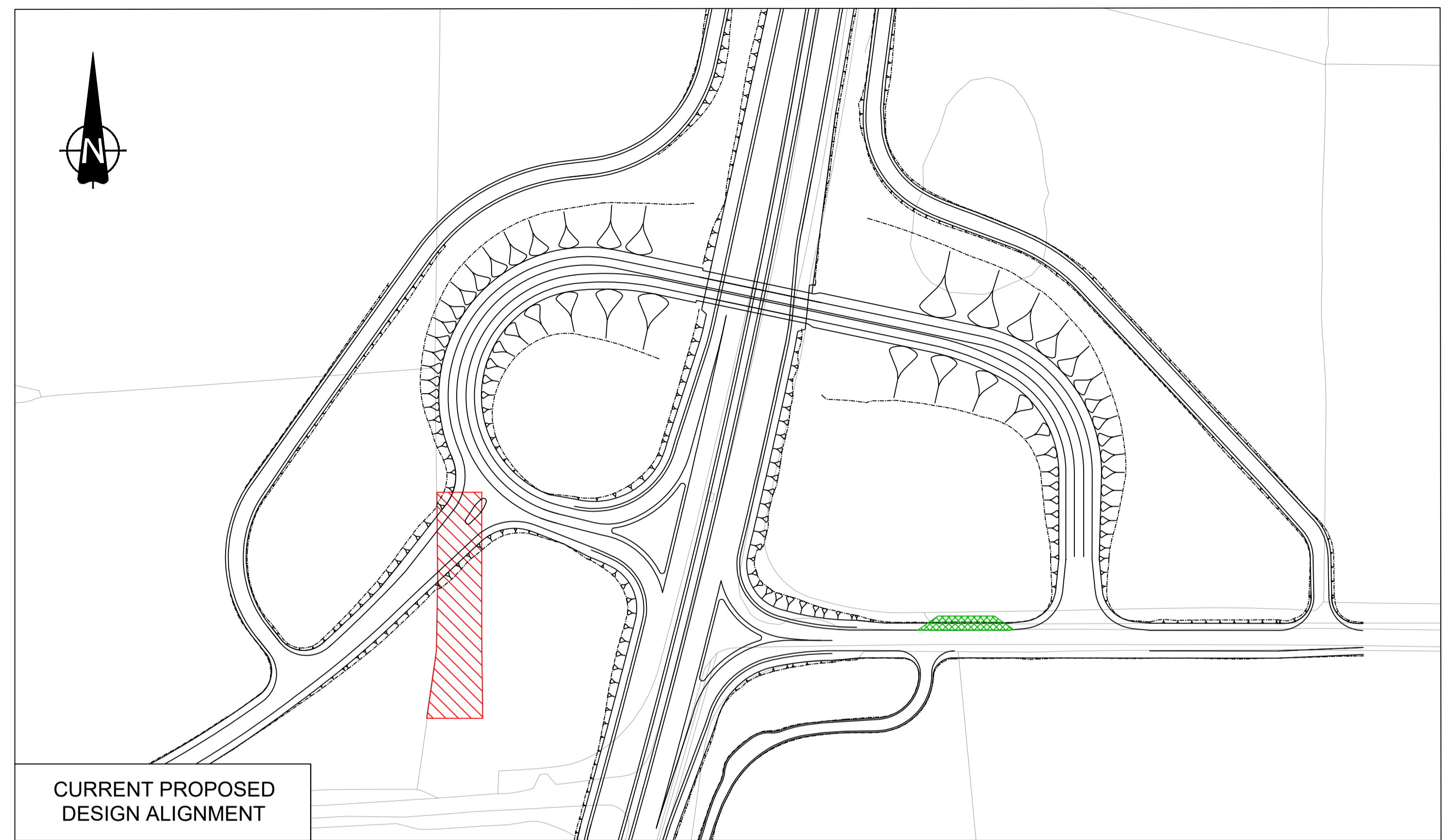
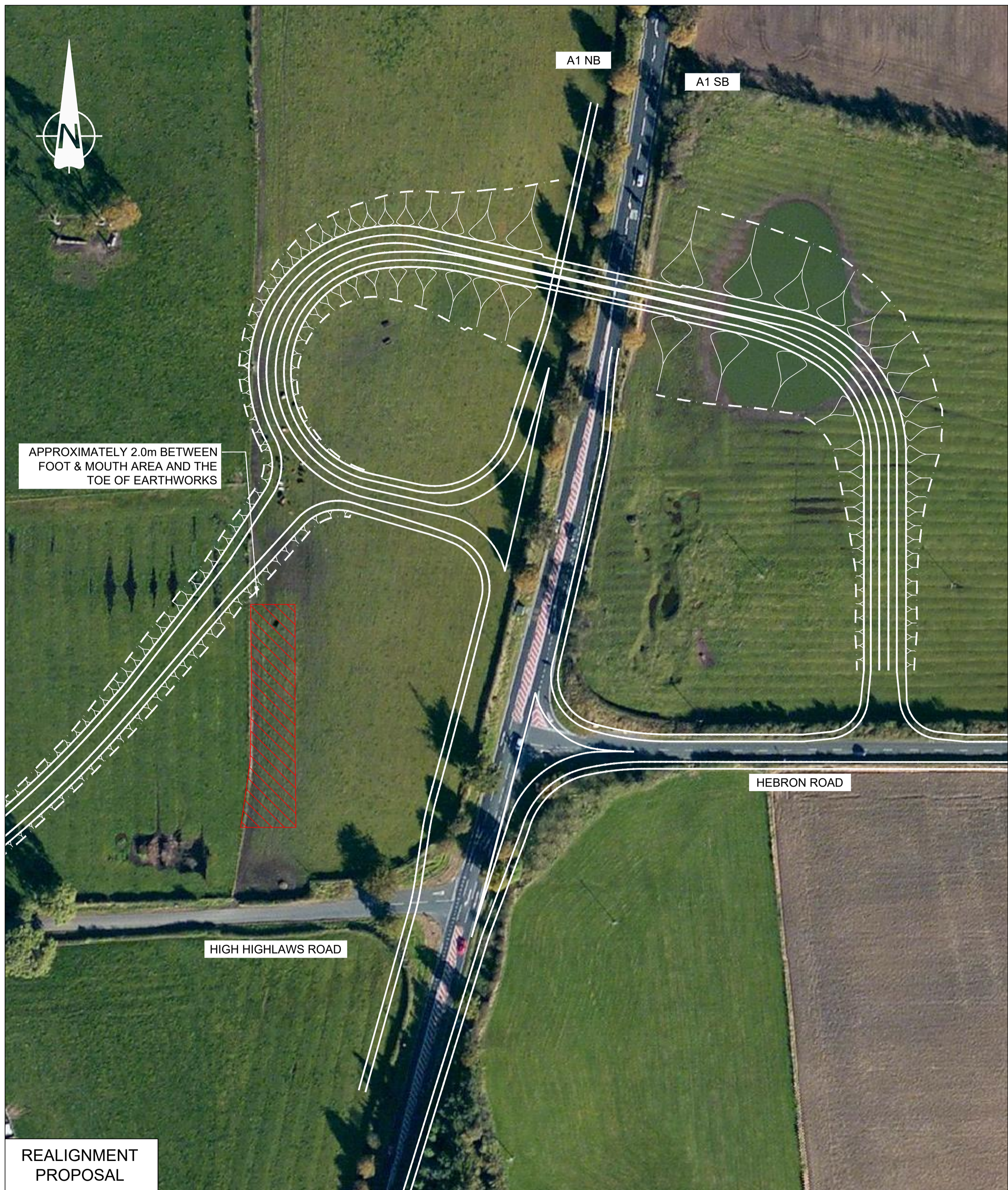
Technical Drawings

A1 in Northumberland: Morpeth to Ellingham

Part A: Morpeth to Felton

DO NOT SCALE

100
0 10
Millimetres



PLAN KEY

- APPROXIMATE LOCATION OF FOOT & MOUTH BURIAL SITE
- PROPOSED REALIGNMENT TO AVOID FOOT & MOUTH SITE
- CURRENTLY PROPOSED DESIGN

NOTES

- REALIGNMENT SHOWN IS INDICATIVE AND FOR SKETCH PURPOSES ONLY
- EARTHWORKS SHOWN ARE APPROXIMATE/INDICATIVE ONLY
- ALL ROAD MARKINGS SHOWN ARE INDICATIVE

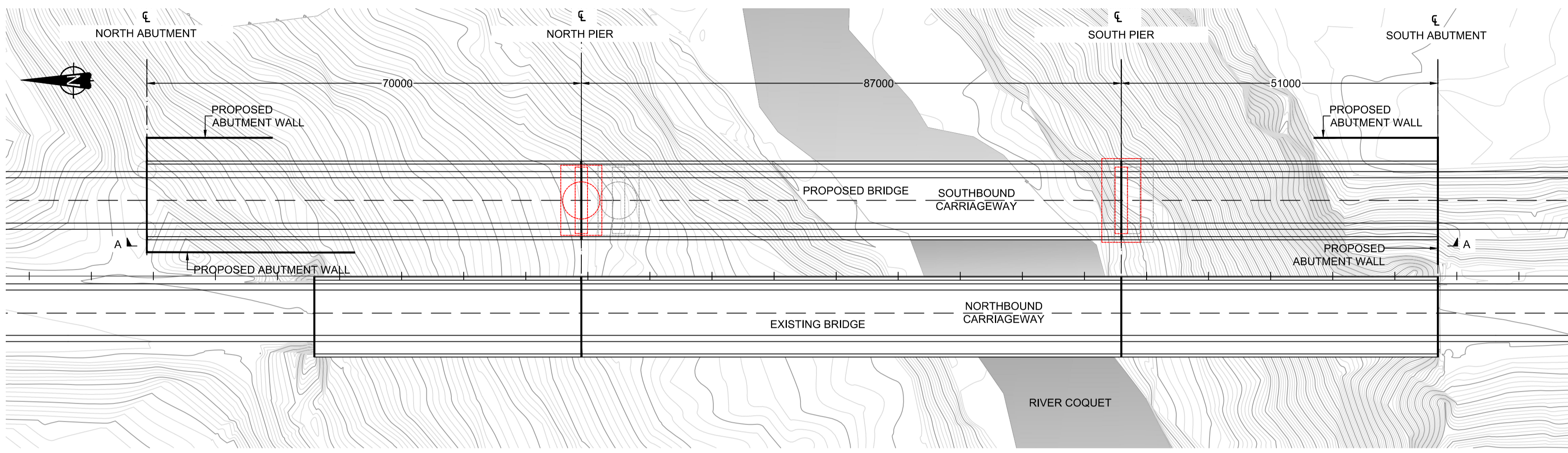
Rev.	Date	Description	By	Eng' Chk	Disc' Chk	HA
P01	05/11/18	FIRST ISSUE				

FOR INFORMATION		Status	Project Title			
		S2	A1 IN NORTHUMBERLAND MORPETH TO FELTON			
Queen Street Manchester M2 5JB, UK T+ 44 (0) 161 832 4542 wsp.com		Drawing Title PROPOSED REALIGNMENT OPTION HIGHLAWS JUNCTION TO AVOID FOOT & MOUTH BURIAL SITE				
Scale	Drawn	Eng. Check	Approved	Authorised		
NTS	SN	MM	CH	HA		
Original Size	Date	Date	Date	Date		
A1	05/11/18	05/11/18	05/11/18	05/11/18		
Drawing Number		Originator	Volume	Revision		
HE551459		WSP	HGN	P01		
Project		M2F	SK	CH	1614	
Section		Direction	Type	Role	Number	
		ID				

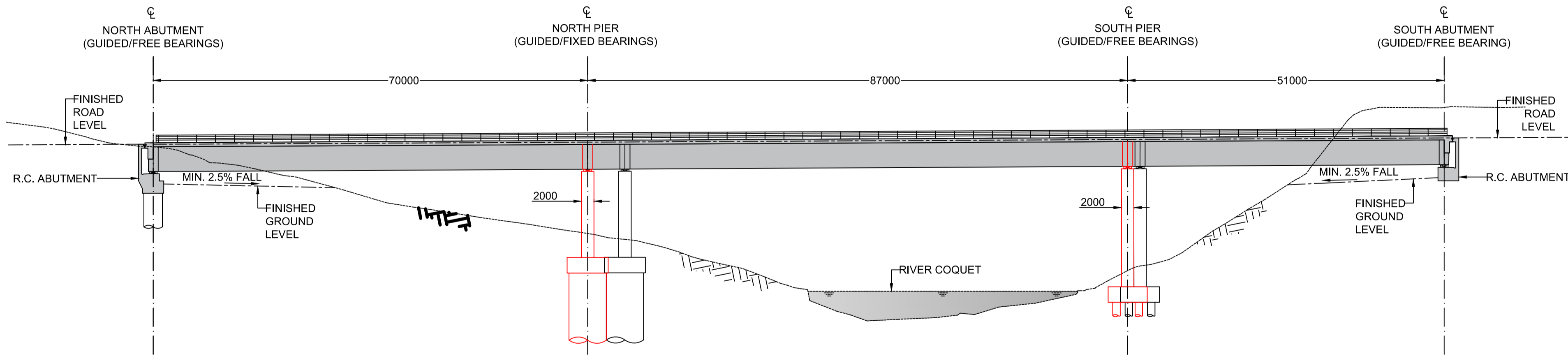
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Millimetres
0 10 100



LOCATION PLAN
SCALE 1:500



ELEVATION A - A
SCALE 1:500

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- NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
 - THE DIMENSIONS OF PROPOSED BRIDGES, EMBANKMENTS, CUTTINGS, TUNNELS, CULVERTS AND SUBWAYS ARE INDICATIVE ONLY

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
0	19/05/20	FIRST ISSUE		DDN	MM	MM DM

Suitability: FOR INFORMATION
Status: S2

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Project Title: A1 in Northumberland: Morpeth to Ellingham Part A					
Drawing Title: PARAMETER 10 - EXTENT OF PIER MOVEMENT TO THE NORTH					
Scale: AS SHOWN	Drawn: DDN	Eng. Check: MM	Approved: MM	Authorised: DM	
Original Size: A1	Date: 19/05/20	Date: 19/05/20	Date: 19/05/20	Date: 19/05/20	
Drawing Number: HE551459	Project: WSP	Originator: WSP	Volume: GEN	Revision: 0	PW Stage Code
Section:	Type:	ID:	Direction: M2F	Type: SK	Role: CH
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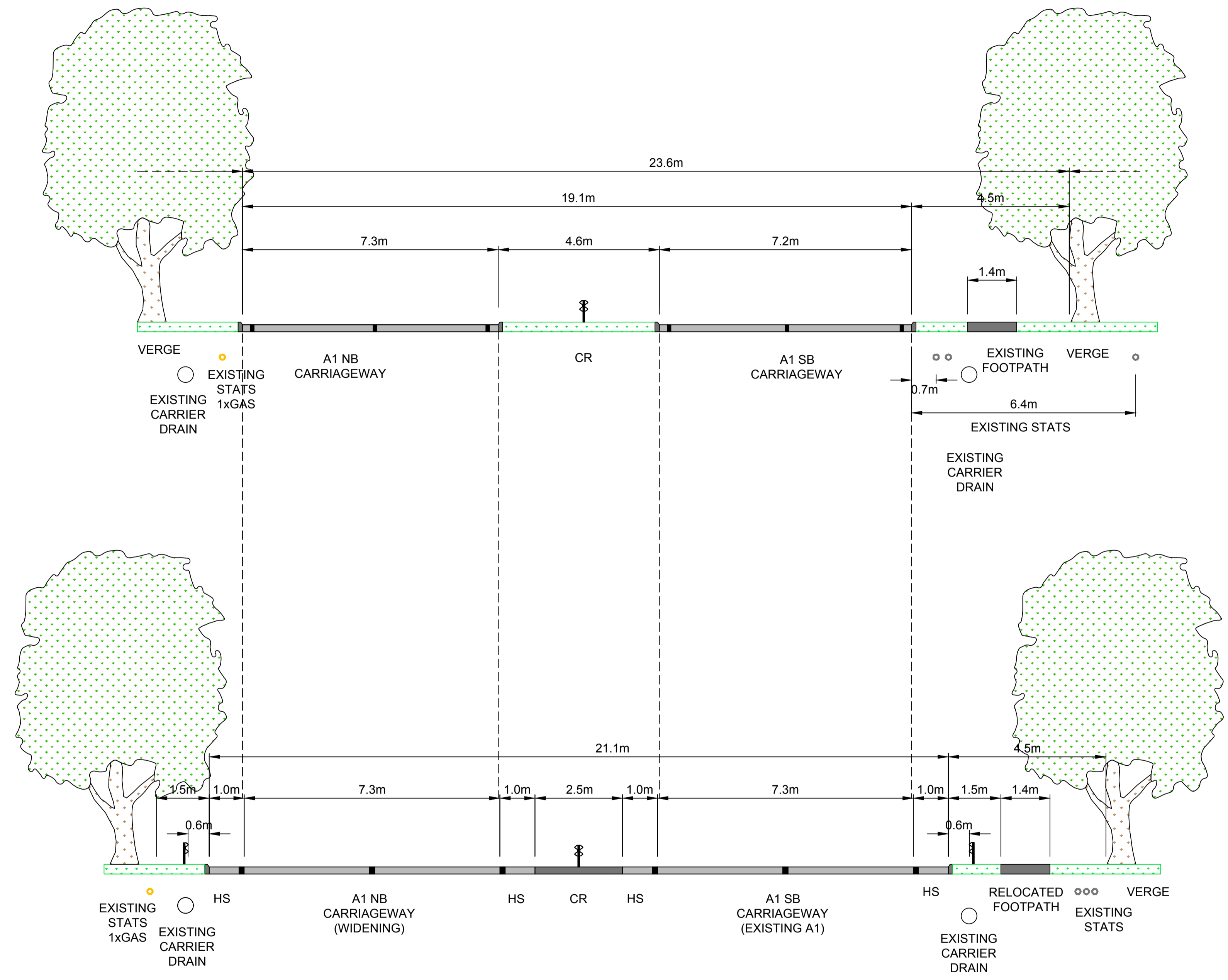
Millimetres

ONLINE - SOUTH SECTION

CH 10790 - 10850

SOUTHERN TIE-IN POINT OF EXISTING CARRIAGEWAY CH 10680

PROPOSED SECTION FOLLOWING TRANSITION



STATS

- TELECOMS - BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

NOTES - Assumptions:

Area 14 requirements

- 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales).
- 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline.
- Where the carriageway is in cutting and superelevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.
- Field drain only shown where land drainage is required by the drainage team.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.

Contractor

- Haul road for offline section to be within footprint of new carriageway.
- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Environmental

- Mitigation hedges required to be within highway boundary.
- Non-mitigation hedges to be located in private land.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH DM

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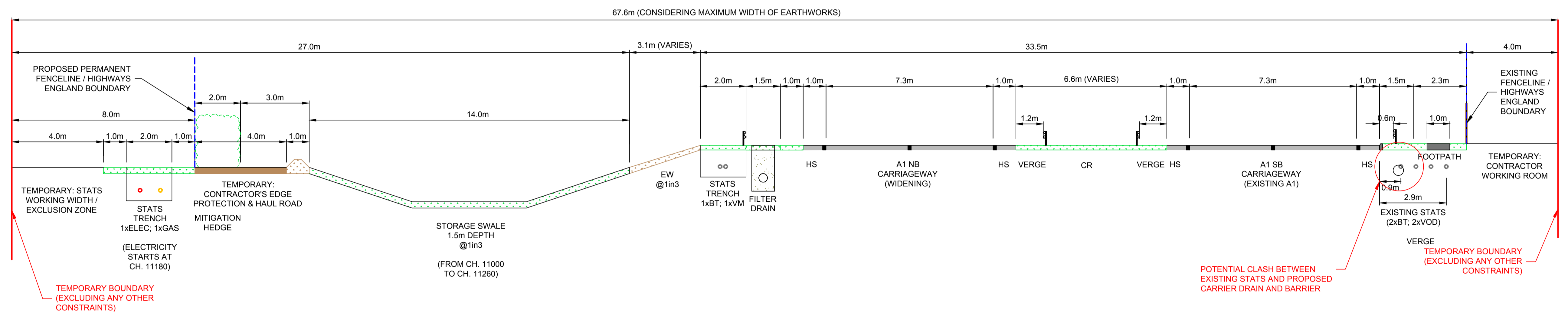
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Project Title		A1 IN NORTHUMBERLAND MORPETH TO FELTON			
Drawing Title		INDICATIVE CROSS SECTIONS SECTION 1			
Scale	Drawn	Eng. Check	Approved	Authorised	
NTS	DDN	MM	CH	DM	
Original Size	Date	Date	Date	Date	
A1	05/11/18	05/11/18	05/11/18	05/11/18	
Drawing Number	Project	Originator	Volume	Revision	
HE551459		WSP	HGN	P01	
Section	Type	ID	Direction	Type	Role
					Number
					1090

DO NOT SCALE

ONLINE - SOUTH SECTION

CH 10990 - 11215



STATS

- TELECOMS - BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

NOTES - Assumptions:

Area 14 requirements

- 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales).
- 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline.
- Where the carriageway is in cutting and superelevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.
- Field drain only shown where land drainage is required by the drainage team.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.

Contractor

- Haul road for offline section to be within footprint of new carriageway.
- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Environmental

- Mitigation hedges required to be within highway boundary.
- Non-mitigation hedges to be located in private land.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd	
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH	DM

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S2

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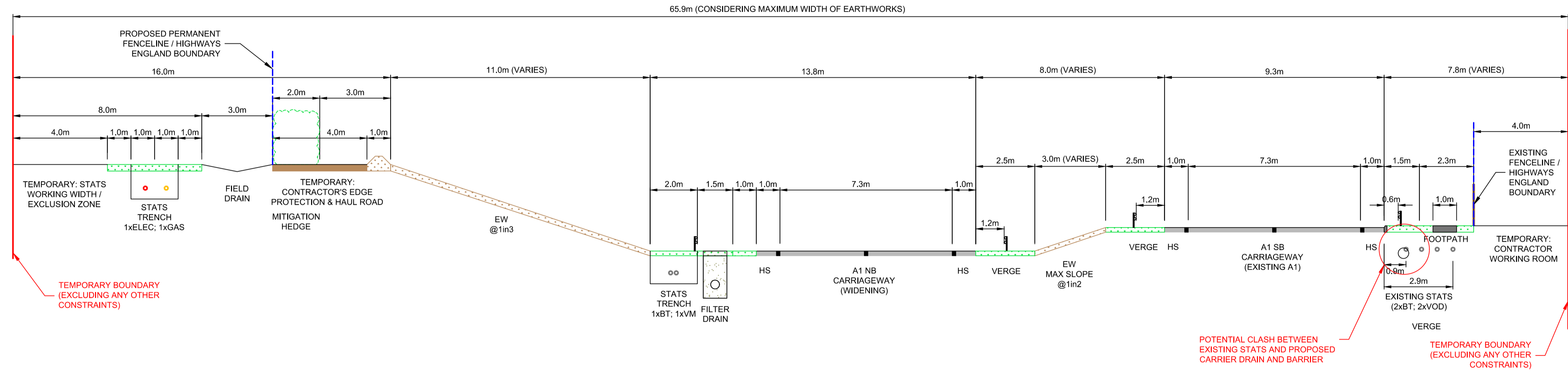
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Project Title		A1 IN NORTHUMBERLAND MORPETH TO FELTON			
Drawing Title		INDICATIVE CROSS SECTIONS SECTION 2			
Scale	Drawn	Eng. Check	Approved	Authorised	
NTS	DDN	MM	CH	DM	
Original Size	Date	Date	Date	Date	
A1	05/11/18	05/11/18	05/11/18	05/11/18	
Project	Originator	Volume		Revision	
HE551459	WSP	HGN		P01	
Section	Type	Direction	Type	Role	Number
		M2F	DR	CH	1091

DO NOT SCALE

ONLINE - SOUTH SECTION CH 11215 - 11320



STATS

- TELECOMS - BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

STORAGE SWALE ENDS AT CH. 11260, SEE SECTION 2

NOTES - Assumptions:

Area 14 requirements

- 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales).
- 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline.
- Where the carriageway is in cutting and superelevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.
- Field drain only shown where land drainage is required by the drainage team.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.

Contractor

- Haul road for offline section to be within footprint of new carriageway.
- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Environmental

- Mitigation hedges required to be within highway boundary.
- Non-mitigation hedges to be located in private land.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd	
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH	DM

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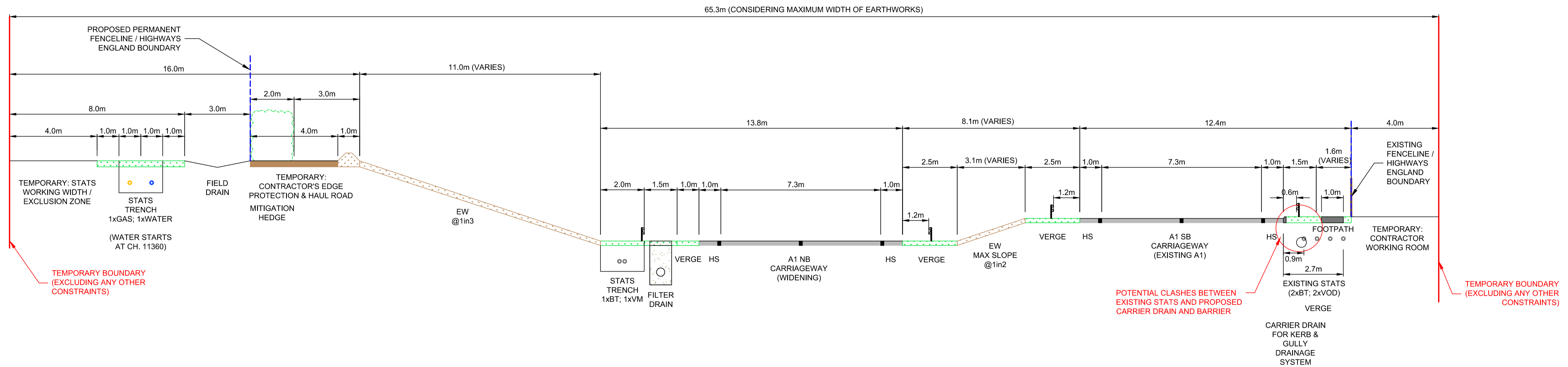
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Project Title		A1 IN NORTHUMBERLAND MORPETH TO FELTON			
Drawing Title		INDICATIVE CROSS SECTIONS SECTION 3			
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NTS	DDN	MM	CH	DM	
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Drawing Number	Project	Originator	Volume	Revision	
HE551459		WSP	HGN	P01	
Section	Type	ID	Direction	Type	Role
			M2F	DR	CH
					1092
					Number

DO NOT SCALE

ONLINE - SOUTH SECTION CH 11320 - 11634



STATS

- TELECOMS - BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

NOTES - Assumptions:

Area 14 requirements

- 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales).
- 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline.
- Where the carriageway is in cutting and superelevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.
- Field drain only shown where land drainage is required by the drainage team.

- Signage**
- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.
- Stats requirements**
- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
 - In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.
- Contractor**
- Haul road for offline section to be within footprint of new carriageway.
 - Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.
- Environmental**
- Mitigation hedges required to be within highway boundary.
 - Non-mitigation hedges to be located in private land.

Rev	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH

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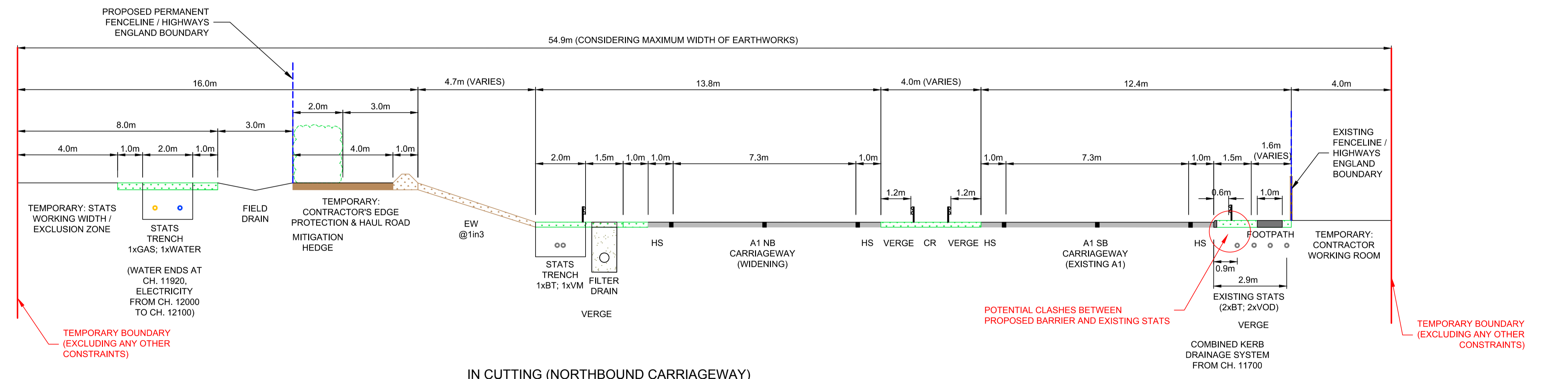
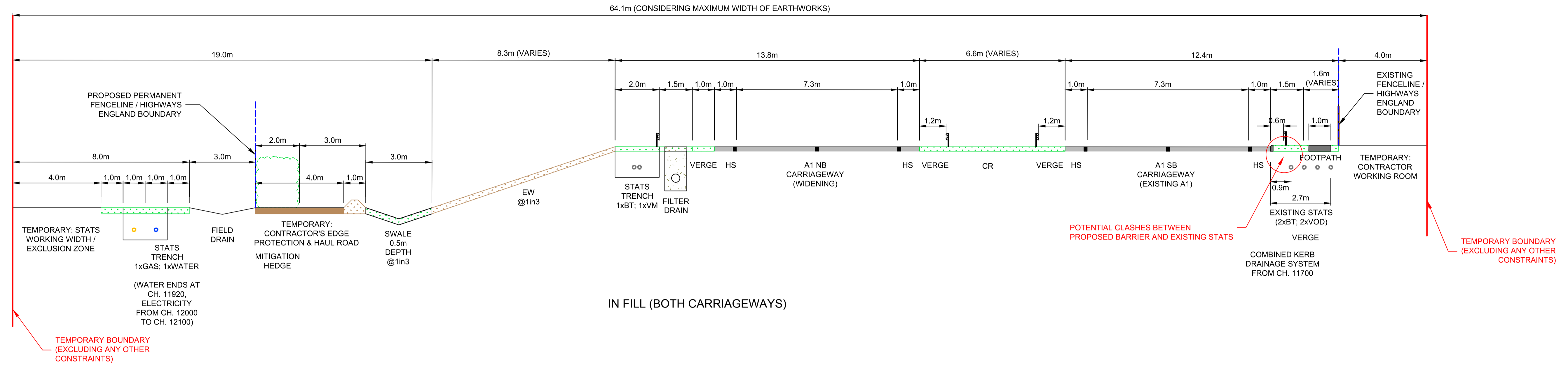
**highways
england**

Suitability	Status	Project Title			
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Drawing Title					
INDICATIVE CROSS SECTIONS SECTION 4					
Scale	Drawn	Eng. Check	Approved	Authorised	
NTS	DDN	MM	CH	DM	
Original Size	Date	Date	Date	Date	
A1	05/11/18	05/11/18	05/11/18	05/11/18	
Project Number	Originator	Volume		Revision	
HE551459	WSP	HGN		P01	
Section	Type	Direction	Type	Role	Number

DO NOT SCALE

100
0 10
Millimetres

ONLINE - SOUTH SECTION CH 11634 - 12100



STATS

- TELECOMS - BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

NOTES - Assumptions:

Area 14 requirements

- 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales).
- 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fence line.
- Where the carriageway is in cutting and superelevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.
- Field drain only shown where land drainage is required by the drainage team.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.

Contractor

- Haul road for offline section to be within footprint of new carriageway.
- Permanent fence line (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Environmental

- Mitigation hedges required to be within highway boundary.
- Non-mitigation hedges to be located in private land.

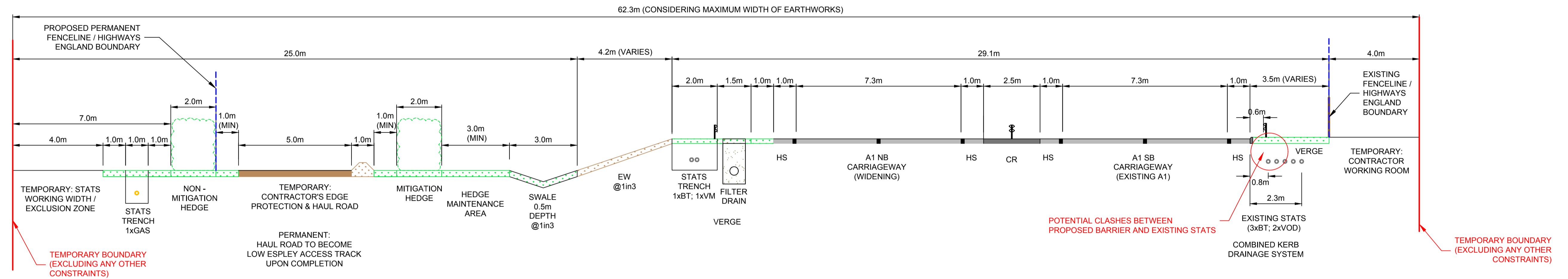
Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH

FOR INFORMATION	S2	Project Title A1 IN NORTHUMBERLAND MORPETH TO FELTON																				
		Drawing Title INDICATIVE CROSS SECTIONS SECTION 5																				
Queen Street Manchester M2 5JB, UK T+ 44 (0) 161 832 4542 wsp.com	<table border="1" style="width: 100%; font-size: small;"> <tr> <th>Scale</th> <th>Drawn</th> <th>Eng. Check</th> <th>Approved</th> <th>Authorised</th> </tr> <tr> <td>NTS</td> <td>DDN</td> <td>MM</td> <td>CH</td> <td>DM</td> </tr> <tr> <th>Original Size</th> <th>Date</th> <th>Date</th> <th>Date</th> <th>Date</th> </tr> <tr> <td>A1</td> <td>05/11/18</td> <td>05/11/18</td> <td>05/11/18</td> <td>05/11/18</td> </tr> </table>		Scale	Drawn	Eng. Check	Approved	Authorised	NTS	DDN	MM	CH	DM	Original Size	Date	Date	Date	Date	A1	05/11/18	05/11/18	05/11/18	05/11/18
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ONLINE - SOUTH SECTION

CH 12290 - 12550



STATS	
●	TELECOMS - BT / VODAFONE / VIRGIN MEDIA
●	WATER MAIN
●	GAS MAIN
●	ELECTRICITY

ENVIRONMENTAL MITIGATION AREA NOT CURRENTLY SHOWN IN THE SECTION.

PARALLEL ACCESS TRACK OFF HEBRON ROAD (EAST OF MAINLINE) NOT SHOWN.

NOTES - Assumptions:

Area 14 requirements

- 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales).
- 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline.
- Where the carriageway is in cutting and superelevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.
- Field drain only shown where land drainage is required by the drainage team.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.

Contractor

- Haul road for offline section to be within footprint of new carriageway.
- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Environmental

- Mitigation hedges required to be within highway boundary.
- Non-mitigation hedges to be located in private land.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH DM

Suitability: FOR INFORMATION | Status: S2

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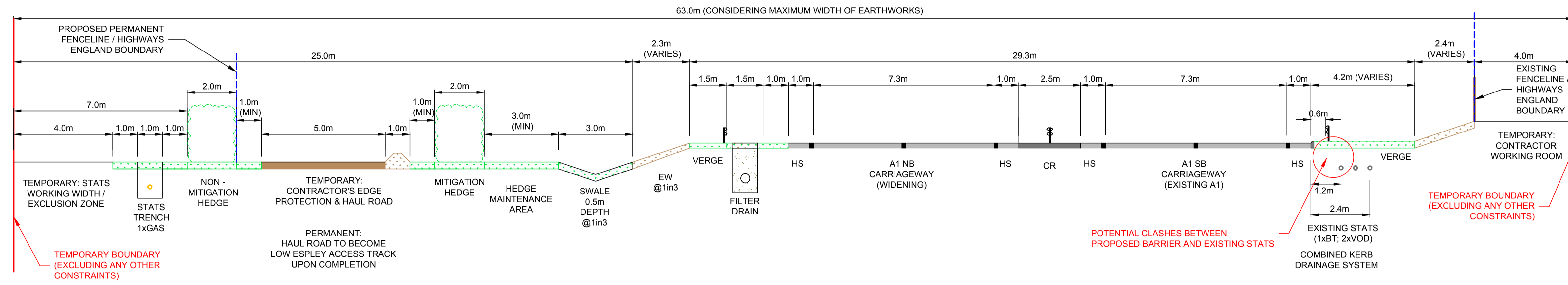
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Project Title: A1 IN NORTHUMBERLAND MORPETH TO FELTON				
Drawing Title: INDICATIVE CROSS SECTIONS SECTION 6				
Scale: NTS	Drawn: DDN	Eng. Check: MM	Approved: CH	Authorised: DM
Original Size: A1	Date: 05/11/18	Date: 05/11/18	Date: 05/11/18	Date: 05/11/18
Project: HE551459	Originator: WSP	Volume: HGN	Revision: P01	
Section: Type: ID:	Direction: M2F	Type: DR	Role: CH	Number: 1095
PW Stage Code				

DO NOT SCALE

ONLINE - SOUTH SECTION CH 12550 - 12900



STATS

- TELECOMS - BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

ENVIRONMENTAL MITIGATION AREA NOT CURRENTLY SHOWN IN THE SECTION.
PARALLEL ACCESS TRACK OFF HEBRON ROAD (EAST OF MAINLINE) NOT SHOWN.

NOTES - Assumptions:

Area 14 requirements

- 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales).
- 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline.
- Where the carriageway is in cutting and superelevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.
- Field drain only shown where land drainage is required by the drainage team.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

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- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.

Contractor

- Haul road for offline section to be within footprint of new carriageway.
- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Environmental

- Mitigation hedges required to be within highway boundary.
- Non-mitigation hedges to be located in private land.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH

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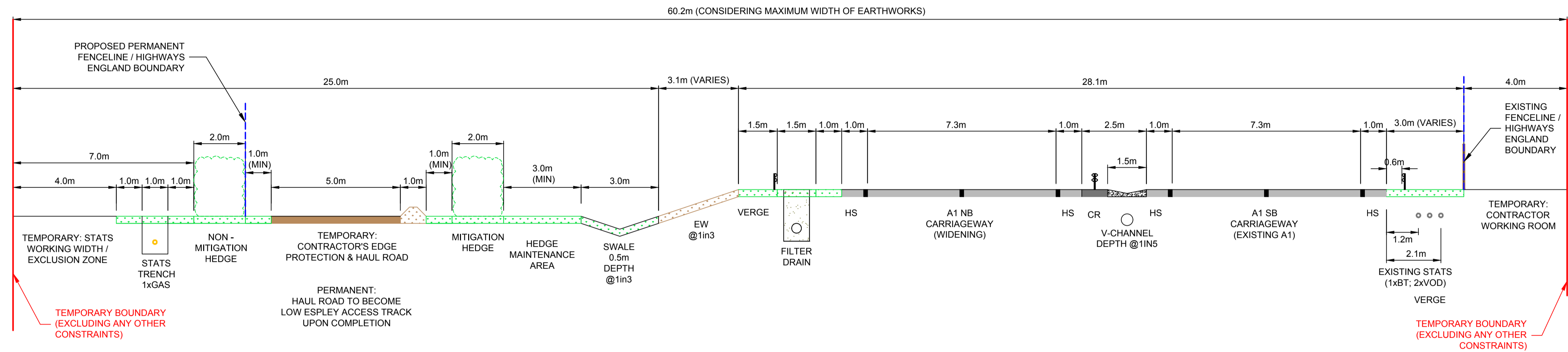
**highways
england**

Project Title		A1 IN NORTHUMBERLAND MORPETH TO FELTON			
Drawing Title		INDICATIVE CROSS SECTIONS SECTION 7			
Scale	Drawn	Eng. Check	Approved	Authorised	
NTS	DDN	MM	CH	DM	
Original Size	Date	Date	Date	Date	
A1	05/11/18	05/11/18	05/11/18	05/11/18	
Drawing Number	Project	Originator	Volume	Revision	
HE551459		WSP	HGN	P01	
Section	Type	ID	Direction	Type	Role
					Number
					1096

DO NOT SCALE

ONLINE - SOUTH SECTION

CH 12900 - 13240



STATS

- TELECOMS - BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

ENVIRONMENTAL MITIGATION AREA NOT CURRENTLY SHOWN IN THE SECTION.

PARALLEL ACCESS TRACK OFF HEBRON ROAD (EAST OF MAINLINE) NOT SHOWN.

- NOTES - Assumptions:**
- Area 14 requirements**
- 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales).
 - 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc).
 - Filter drain located in front of safety barrier for maintenance purposes.
- Safety Barrier**
- Where required, verge safety barrier assumed at back of filter drain.
 - Maximum working width assumed W4 (<1.3m), unless stated otherwise.
- Drainage requirements**
- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline.
 - Where the carriageway is in cutting and superelevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.
 - Field drain only shown where land drainage is required by the drainage team.

- Signage**
- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.
- Stats requirements**
- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
 - In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.
- Contractor**
- Haul road for offline section to be within footprint of new carriageway.
 - Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.
- Environmental**
- Mitigation hedges required to be within highway boundary.
 - Non-mitigation hedges to be located in private land.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH DM

Suitability: **FOR INFORMATION** | Status: **S2**

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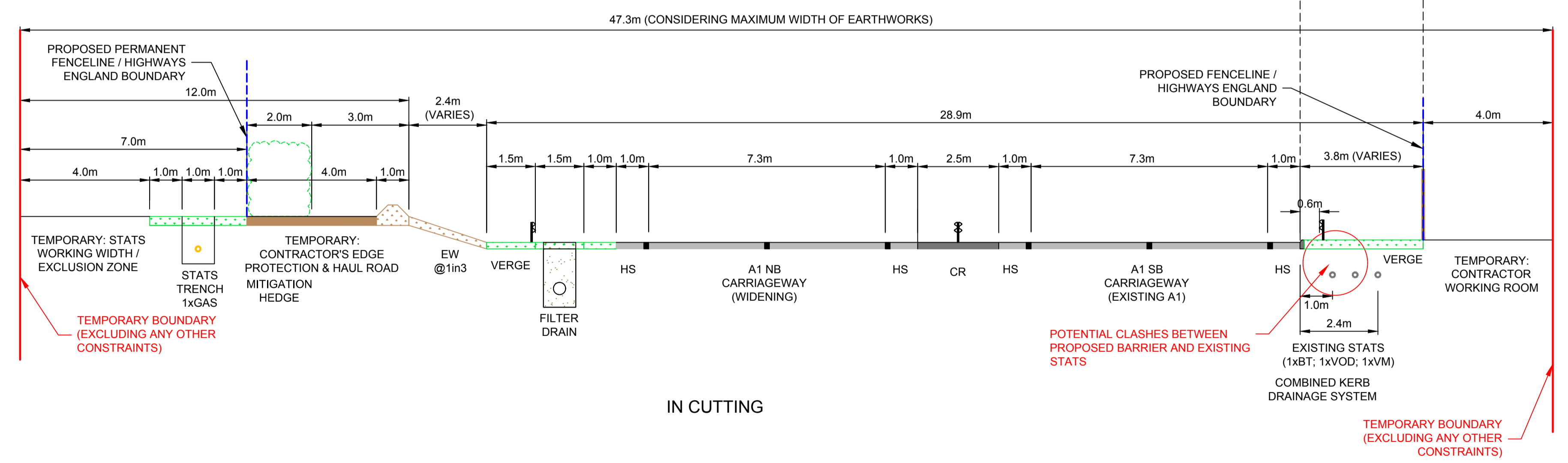
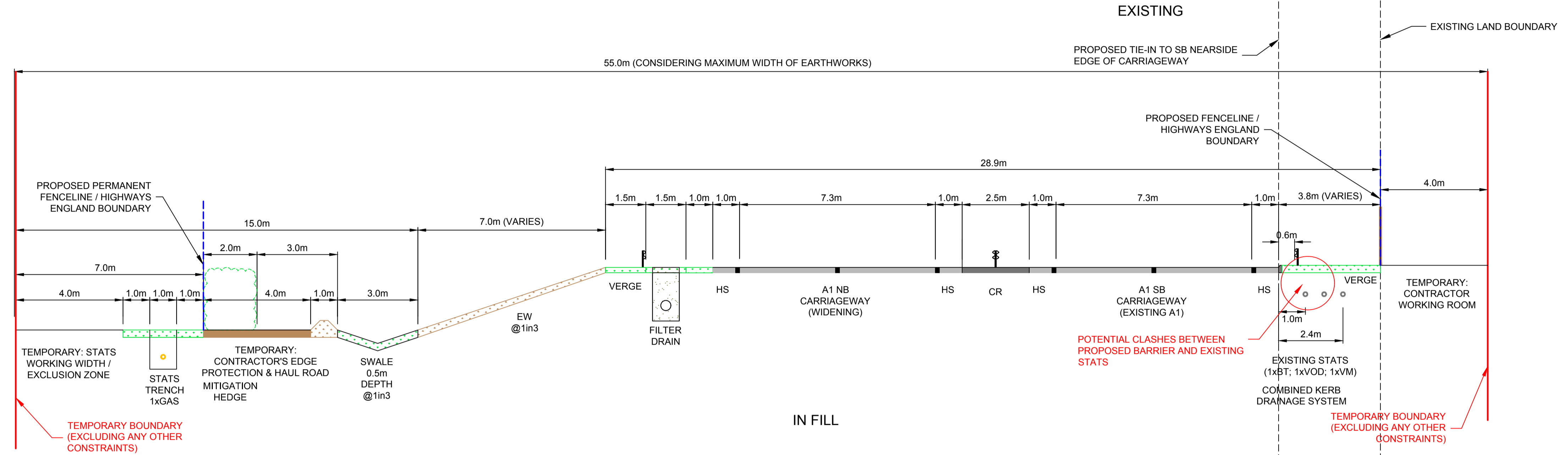
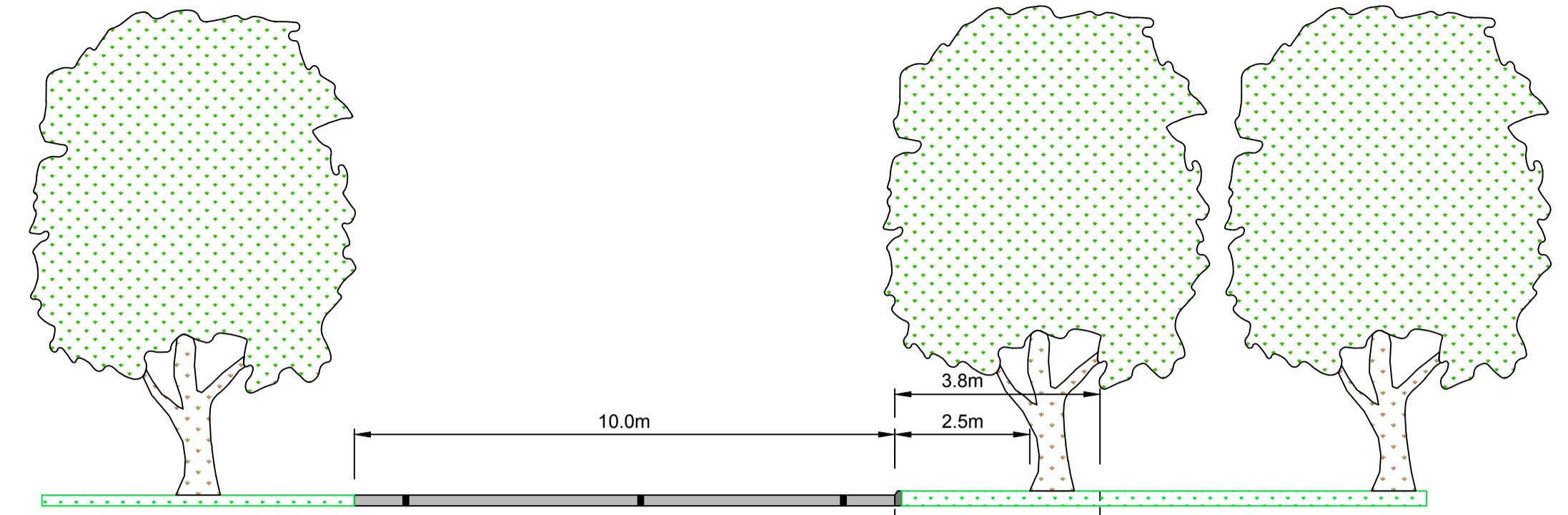
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Drawing Title		INDICATIVE CROSS SECTIONS SECTION 8			
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NTS	DDN	MM	CH	DM	
Original Size	Date	Date	Date	Date	
A1	05/11/18	05/11/18	05/11/18	05/11/18	
Drawing Number	Project	Originator	Volume	Revision	
HE551459		WSP	HGN	P01	
Section	Type	ID	Direction	Type	Role
			M2F DR	CH	1097

DO NOT SCALE

Millimetres

ONLINE - SOUTH SECTION

CH 13240 - 13650



STATS

- TELECOMS - BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

NOTES - Assumptions:

Area 14 requirements

- 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales).
- 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fence line.
- Where the carriageway is in cutting and super-elevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.
- Field drain only shown where land drainage is required by the drainage team.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.

Contractor

- Haul road for offline section to be within footprint of new carriageway.
- Permanent fence line (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Environmental

- Mitigation hedges required to be within highway boundary.
- Non-mitigation hedges to be located in private land.

Rev	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH DM

FOR INFORMATION

S2

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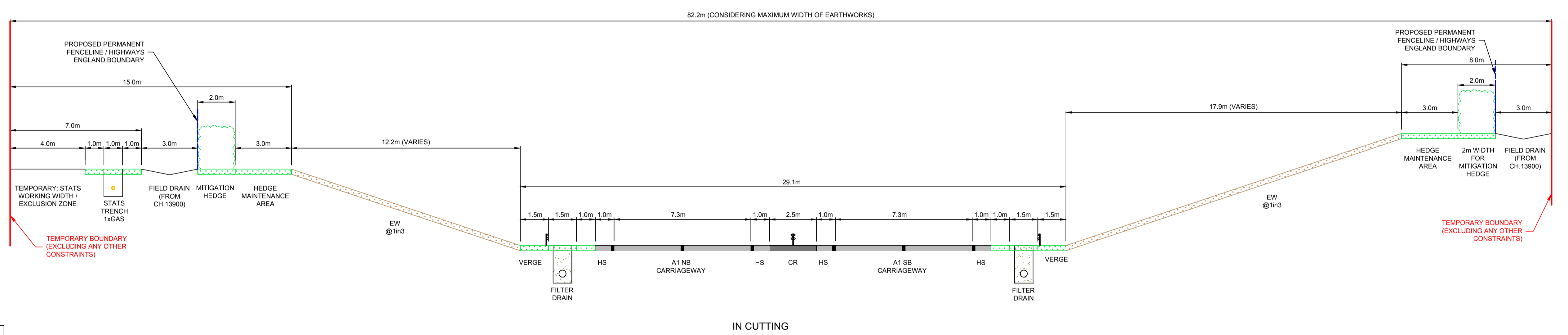
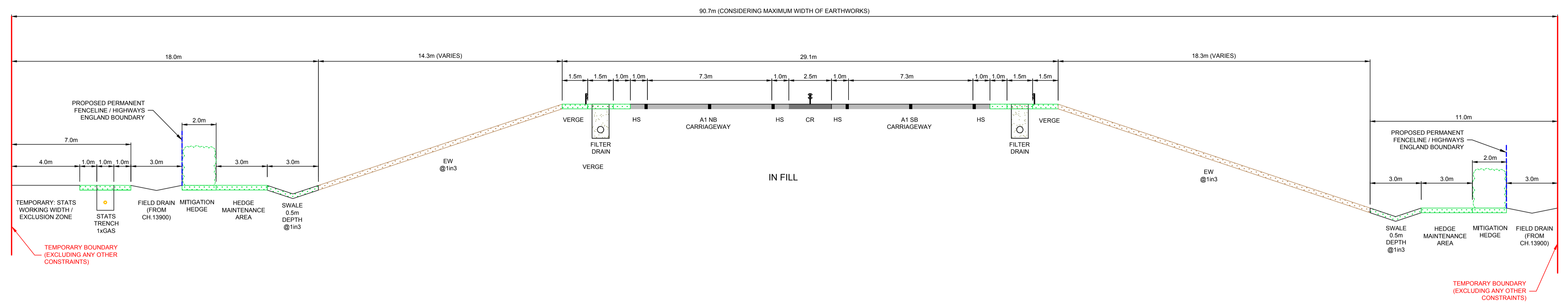
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Original Size	Date	Date	Date	Date	
A1	05/11/18	05/11/18	05/11/18	05/11/18	
Project	Project		Volume	Revision	
HE551459	WSP		HGN	P01	
Section	Type	ID	Direction	Type	Role
			M2F	DR	CH 1098

DO NOT SCALE

OFFLINE SECTION

CH 13650 - 14200
CH 18650 - 19080

CHAINAGE	MAXIMUM WIDTH OF EARTHWORKS			
	FILL		CUT	
	NB	SB	NB	SB
CH 13650 - 14200	14.3m	18.3m	6.3m	7m
CH 18650 - 19380	1.6m	-	12.2m	17.9m



STATS

- TELECOMS - BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

NOTES - Assumptions:

Area 14 requirements

- 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales).
- 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline.
- Where the carriageway is in cutting and superelevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.
- Field drain only shown where land drainage is required by the drainage team.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.

Contractor

- Haul road for offline section to be within footprint of new carriageway.
- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Environmental

- Mitigation hedges required to be within highway boundary.
- Non-mitigation hedges to be located in private land.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH DM

FOR INFORMATION		S2	Project Title A1 IN NORTHUMBERLAND MORPETH TO FELTON				
Queen Street Manchester M2 5JB, UK		Drawing Title INDICATIVE CROSS SECTIONS SECTION 10					
T+ 44 (0) 161 832 4542 wsp.com		Scale				Revision	
© WSP UK Ltd		Drawn	Eng. Check	Approved	Authorised	Revision	
Client highways england		Original Size	Date	Date	Date	Date	
Project HE551459		A1	05/11/18	05/11/18	05/11/18	05/11/18	
Volume WSP		HGN		P01		PW Stage Code	
M2F DR CH 1099		Direction		Type		Role	

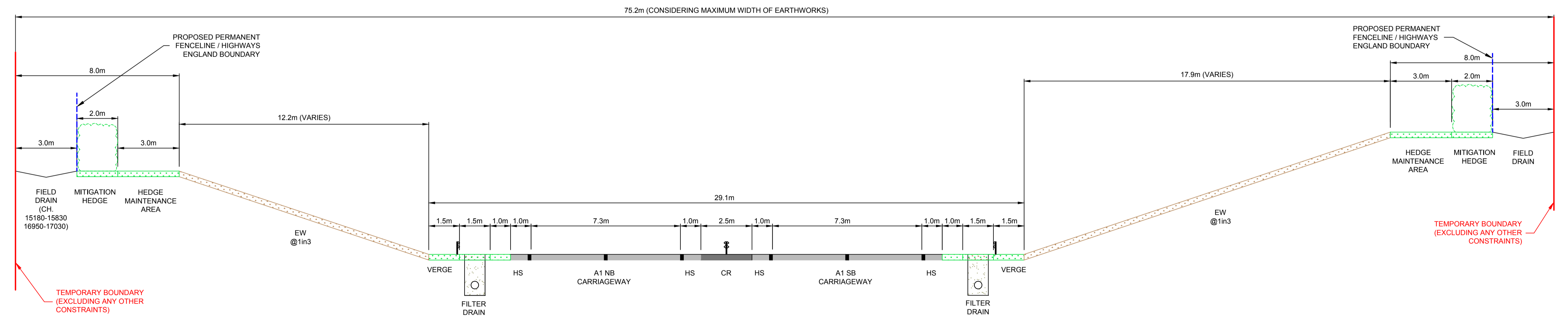
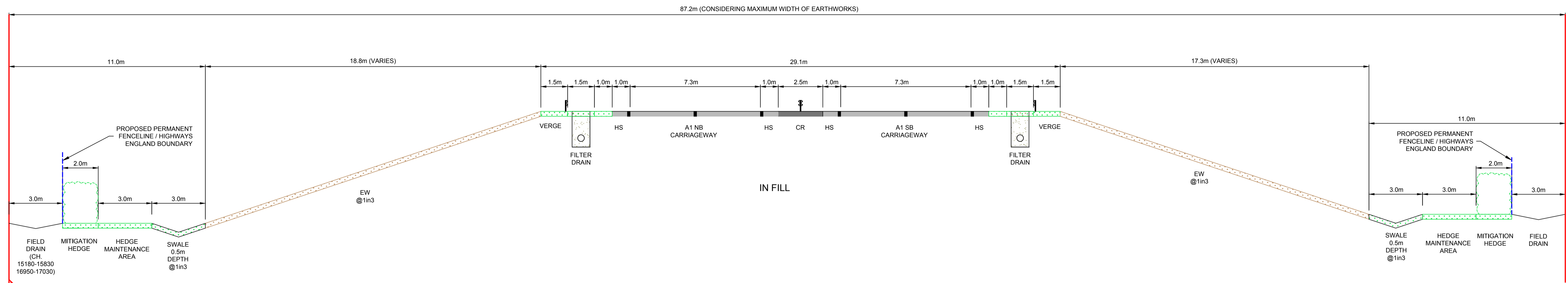
DO NOT SCALE

Millimetres
0 10 100

OFFLINE SECTION

CH 14200 - 14880
 CH 15180 - 16490
 CH 16590 - 18650
 CH 19080 - 19700

CHAINAGE	MAXIMUM WIDTH OF EARTHWORKS			
	FILL		CUT	
	NB	SB	NB	SB
CH 14200 - 14880	N/A		6.3m	6.7m
CH 15180 - 16490	3.9m	3.7m	4.8m	8m
CH 16590 - 18650	11.6m	10.7m	12.2m	17.9m
CH 19080 - 19700	18.8m	17.3m	N/A	



STATS

- TELECOMS - BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

NOTES - Assumptions:

Area 14 requirements

- 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales).
- 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline.
- Where the carriageway is in cutting and superelevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.
- Field drain only shown where land drainage is required by the drainage team.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.

Contractor

- Haul road for offline section to be within footprint of new carriageway.
- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Environmental

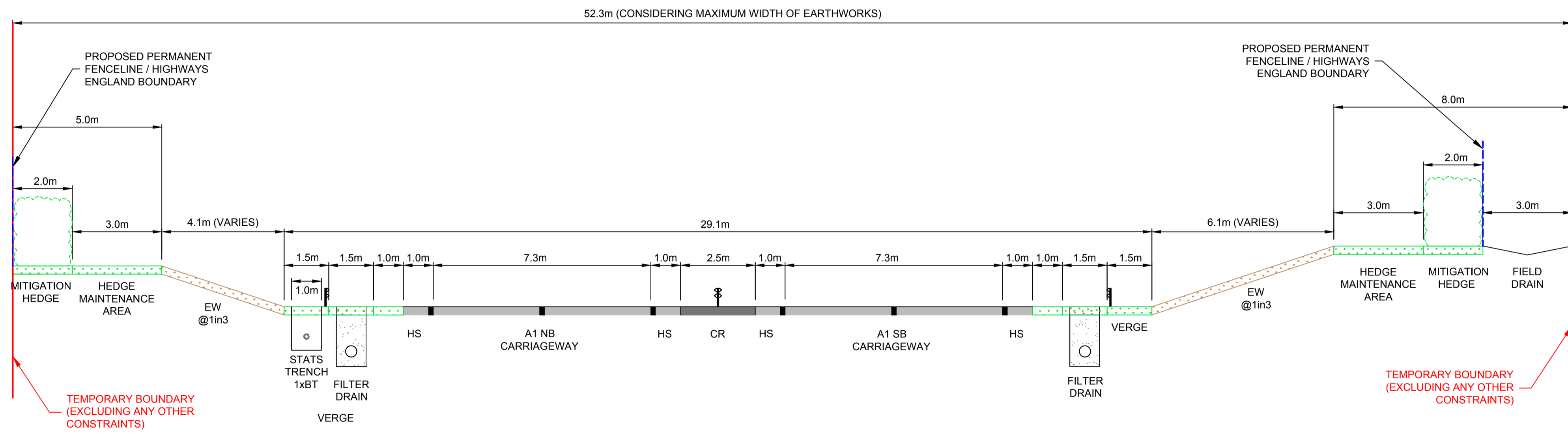
- Mitigation hedges required to be within highway boundary.
- Non-mitigation hedges to be located in private land.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH DM

FOR INFORMATION		Status	Project Title			
		S2	A1 IN NORTHUMBERLAND MORPETH TO FELTON			
Queen Street Manchester M2 5JB, UK T+ 44 (0) 161 832 4542 wsp.com		Drawing Title				
		INDICATIVE CROSS SECTIONS SECTION 11				
Scale	Drawn	Eng. Check	Approved	Authorised		
NTS	DDN	MM	CH	DM		
Original Size	Date	Date	Date	Date		
A1	05/11/18	05/11/18	05/11/18	05/11/18		
Drawing Number		Project		Revision		
HE551459		WSP		HGN		
M2F		DR		CH 1100		
Section		Type		ID		
				PW Stage Code		
				P01		

DO NOT SCALE

OFFLINE SECTION CH 16490 - 16590



STATS

- TELECOMS - BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

NOTES - Assumptions:

Area 14 requirements

- 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales).
- 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline.
- Where the carriageway is in cutting and superelevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.
- Field drain only shown where land drainage is required by the drainage team.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.

Contractor

- Haul road for offline section to be within footprint of new carriageway.
- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Environmental

- Mitigation hedges required to be within highway boundary.
- Non-mitigation hedges to be located in private land.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH DM

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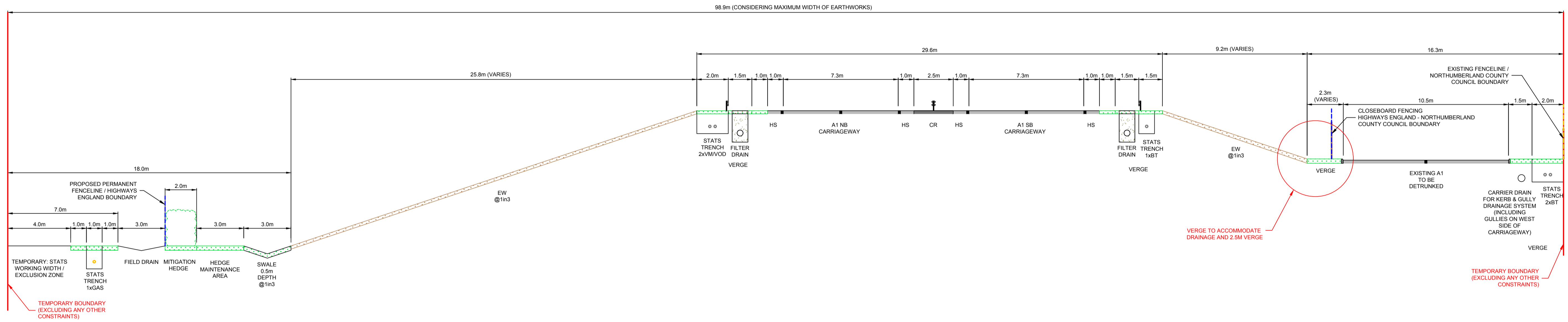
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england**

Project Title		A1 IN NORTHUMBERLAND MORPETH TO FELTON			
Drawing Title		INDICATIVE CROSS SECTIONS SECTION 12			
Scale	Drawn	Eng. Check	Approved	Authorised	
NTS	DDN	MM	CH	DM	
Original Size	Date	Date	Date	Date	
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Project Number	Originator	Volume		Revision	
HE551459	WSP	HGN		P01	
Section	Type	Direction	Type	Role	Number
		M2F	DR	CH	1101

DO NOT SCALE

OFFLINE SECTION CH 19700 - 20010



STATS	
	TELECOMS - BT / VODAFONE / VIRGIN MEDIA
	WATER MAIN
	GAS MAIN
	ELECTRICITY

NOTES - Assumptions:

Area 14 requirements

- 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales).
- 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline.
- Where the carriageway is in cutting and superelevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.
- Field drain only shown where land drainage is required by the drainage team.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.

Contractor

- Haul road for offline section to be within footprint of new carriageway.
- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Environmental

- Mitigation hedges required to be within highway boundary.
- Non-mitigation hedges to be located in private land.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH DM

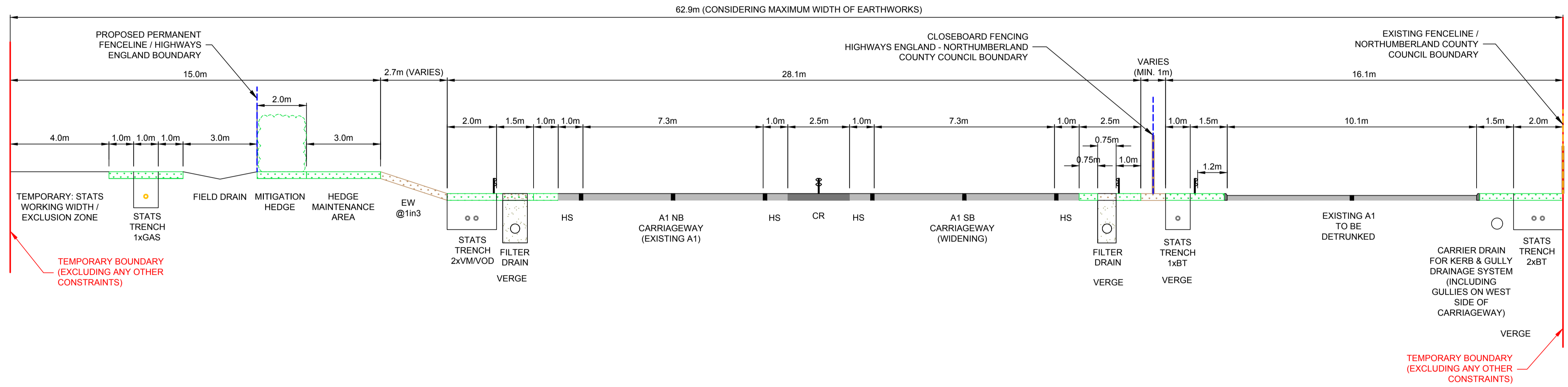
FOR INFORMATION	S2
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Project Title		A1 IN NORTHUMBERLAND MORPETH TO FELTON			
Drawing Title		INDICATIVE CROSS SECTIONS SECTION 13			
Scale	Drawn	Eng. Check	Approved	Authorised	
NTS	DDN	MM	CH	DM	
Original Size	Date	Date	Date	Date	Date
A1	05/11/18	05/11/18	05/11/18	05/11/18	05/11/18
Project Number	Originator		Volume		Revision
HE551459	WSP		HGN		P01
Section	Type	ID	Direction	Type	Role
			M2F DR	CH	1102
					Number

DO NOT SCALE

ONLINE - NORTH SECTION

CH 20010 - 20220



STATS	
	TELECOMS - BT / VODAFONE / VIRGIN MEDIA
	WATER MAIN
	GAS MAIN
	ELECTRICITY

NOTES - Assumptions:

Area 14 requirements

- 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales).
- 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline.
- Where the carriageway is in cutting and superelevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.
- Field drain only shown where land drainage is required by the drainage team.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.

Contractor

- Haul road for offline section to be within footprint of new carriageway.
- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Environmental

- Mitigation hedges required to be within highway boundary.
- Non-mitigation hedges to be located in private land.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd	
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH	DM

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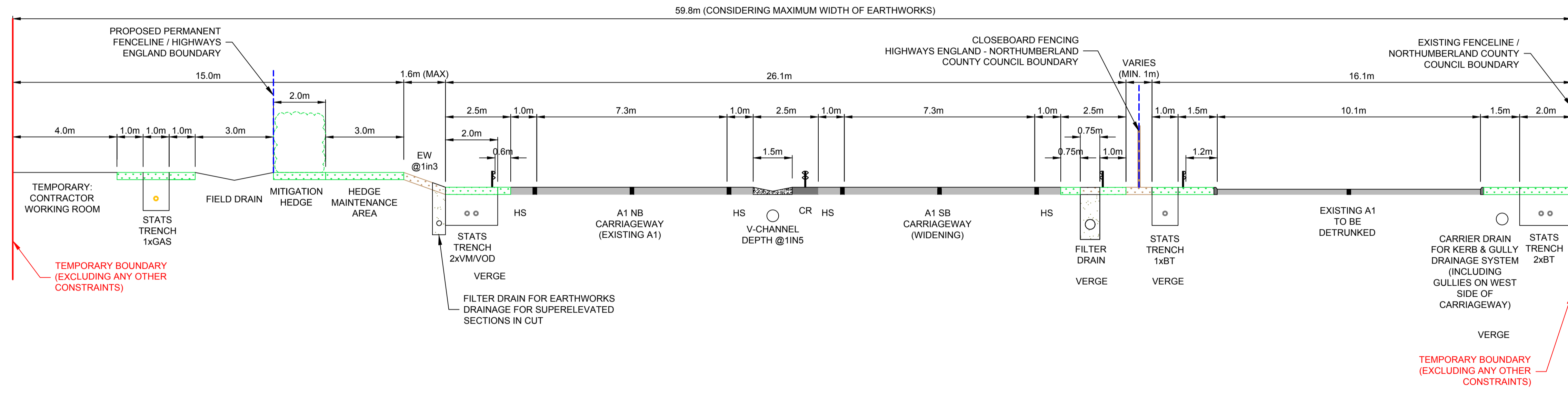
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england

Project Title	A1 IN NORTHUMBERLAND MORPETH TO FELTON				
Drawing Title	INDICATIVE CROSS SECTIONS SECTION 14				
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NTS	DDN	MM	CH	DM	
Original Size	Date	Date	Date	Date	
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Drawing Number	Project	Originator	Volume	Revision	
HE551459		WSP	HGN	P01	
Section	Type	ID	Direction	Type	Role
				1103	
				Number	

DO NOT SCALE

ONLINE - NORTH SECTION

CH 20220 - 20300



STATS

- TELECOMS - BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

NOTES - Assumptions:

Area 14 requirements

- 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales).
- 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fence line.
- Where the carriageway is in cutting and superelevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.
- Field drain only shown where land drainage is required by the drainage team.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.

Contractor

- Haul road for offline section to be within footprint of new carriageway.
- Permanent fence line (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Environmental

- Mitigation hedges required to be within highway boundary.
- Non-mitigation hedges to be located in private land.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd	
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH	DM

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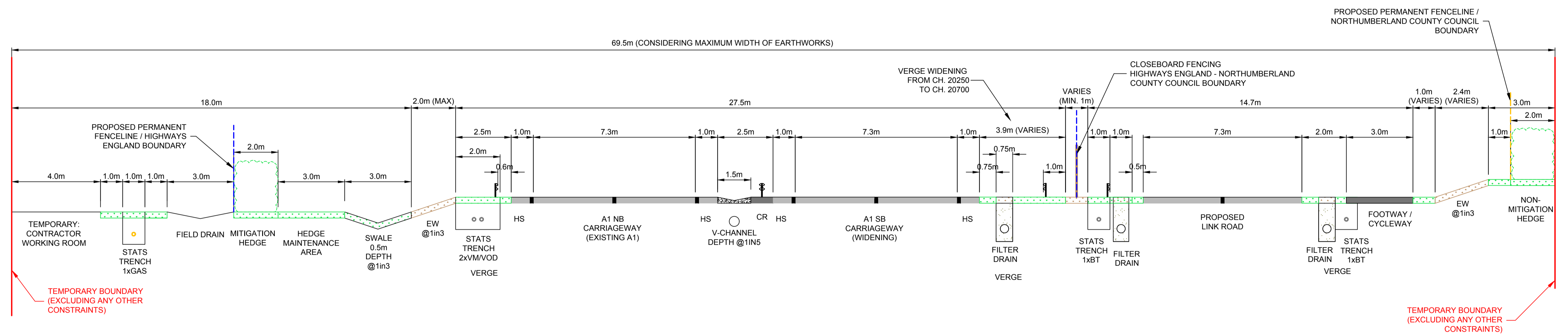
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Drawing Number		Project		Revision	
HE551459		WSP		HGN	
Section		Type		ID	
		M2F DR		CH 1104	
		Direction		Type	
				Role	
				Number	
				PW Stage Code	
				P01	

DO NOT SCALE

Millimetres

ONLINE - NORTH SECTION

CH 20300 - 20600



STATS

- TELECOMS - BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

THE CURRENT DRAINAGE PROPOSAL FROM CH. 20310 TO 21550 ON THE PARALLEL LINK ROAD IS FOR FILTER DRAINS. THIS COULD BE AMENDED TO KERB AND GULLY OR COMBINED KERB DRAINAGE IF REQUIRED TO SUIT THE SHARED FOOTWAY/CYCLEWAY

NOTES - Assumptions:

<p>Area 14 requirements</p> <ul style="list-style-type: none"> - 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales). - 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc). - Filter drain located in front of safety barrier for maintenance purposes. <p>Safety Barrier</p> <ul style="list-style-type: none"> - Where required, verge safety barrier assumed at back of filter drain. - Maximum working width assumed W4 (<1.3m), unless stated otherwise. <p>Drainage requirements</p> <ul style="list-style-type: none"> - For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline. - Where the carriageway is in cutting and superelevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements. - Field drain only shown where land drainage is required by the drainage team. 	<p>Signage</p> <ul style="list-style-type: none"> - A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required. <p>Stats requirements</p> <ul style="list-style-type: none"> - For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required. - In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench. <p>Contractor</p> <ul style="list-style-type: none"> - Haul road for offline section to be within footprint of new carriageway. - Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise. <p>Environmental</p> <ul style="list-style-type: none"> - Mitigation hedges required to be within highway boundary. - Non-mitigation hedges to be located in private land.
--	---

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH DM

FOR INFORMATION

S2

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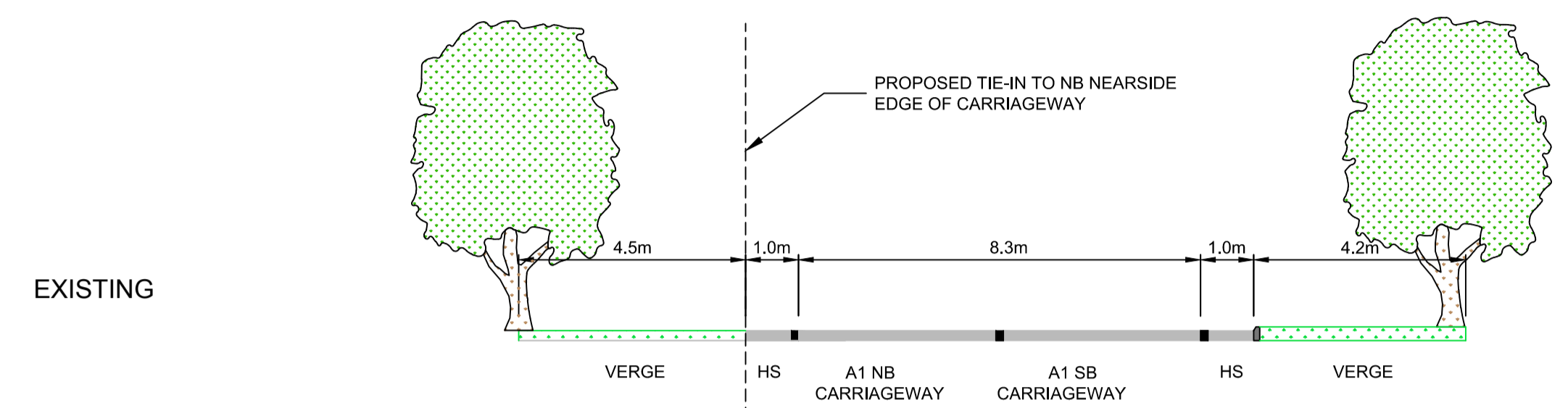
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NTS	DDN	MM	CH	DM	
Original Size	Date	Date	Date	Date	
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HE551459		WSP	HGN	P01	
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					Number
					1105

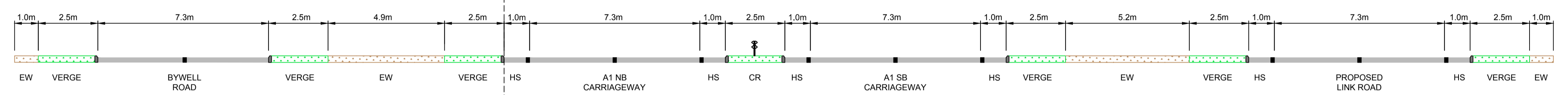
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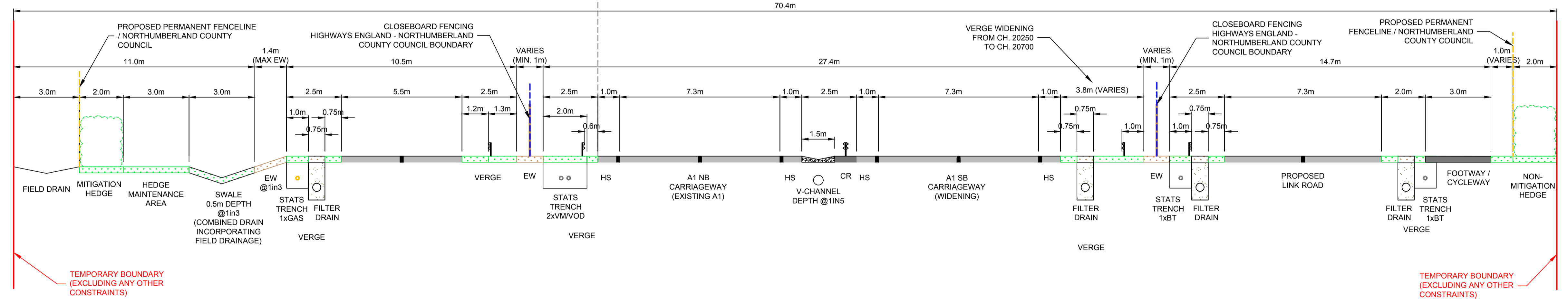
ONLINE - NORTH SECTION CH 20600 - 20750



STAGE 2
(JACOBS)



LATEST PROPOSED



STATS

- TELECOMS - BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

THE CURRENT DRAINAGE PROPOSAL FROM CH. 20310 TO 21550 ON THE PARALLEL LINK ROAD IS FOR FILTER DRAINS. THIS COULD BE AMENDED TO KERB AND GULLY OR COMBINED KERB DRAINAGE IF REQUIRED TO SUIT THE SHARED FOOTWAY/CYCLEWAY

NOTES - Assumptions:

Area 14 requirements

- 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales).
- 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fence line.
- Where the carriageway is in cutting and superelevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.
- Field drain only shown where land drainage is required by the drainage team.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.

Contractor

- Haul road for offline section to be within footprint of new carriageway.
- Permanent fence line (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Environmental

- Mitigation hedges required to be within highway boundary.
- Non-mitigation hedges to be located in private land.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH DM

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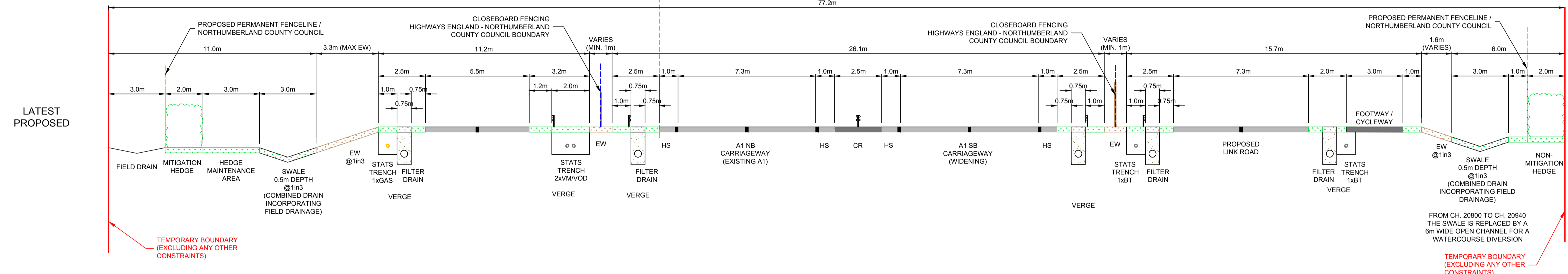
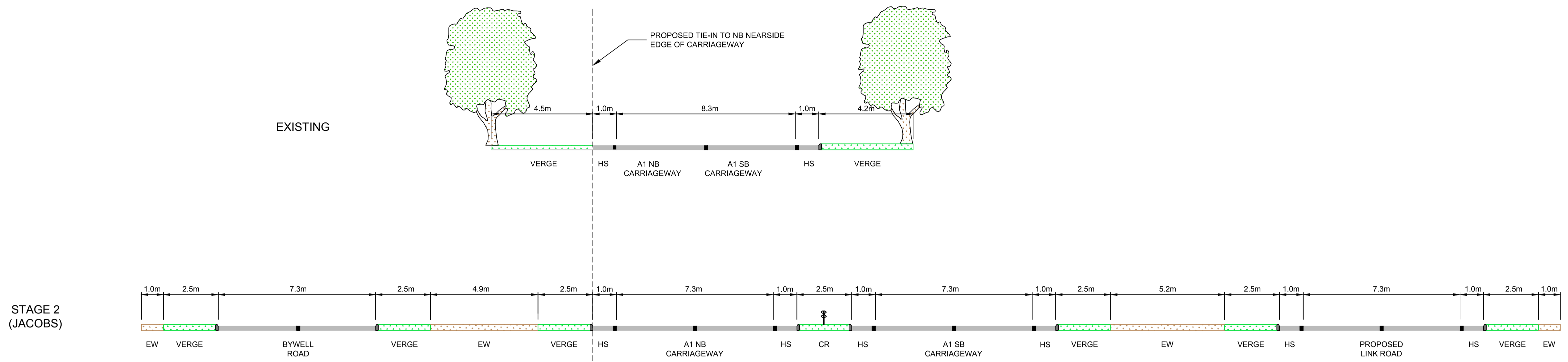
**highways
england**

Sustainability		Status		Project Title	
FOR INFORMATION		S2		A1 IN NORTHUMBERLAND MORPETH TO FELTON	
Drawing Title					
INDICATIVE CROSS SECTIONS SECTION 17					
Scale	Drawn	Eng. Check	Approved	Authorised	
NTS	DDN	MM	CH	DM	
Original Size	Date	Date	Date	Date	
A1	05/11/18	05/11/18	05/11/18	05/11/18	
Drawing Number		Originator		Volume	
HE551459		WSP		HGN	
Project		M2F DR		CH 1106	
Section		Type		ID	
		Direction		Role	
		Type		Number	
		ID		Revision	
				P01	
				PW Stage Code	

DO NOT SCALE

ONLINE - NORTH SECTION

CH 20750 - 21000



STATS

- TELECOMS - BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

THE CURRENT DRAINAGE PROPOSAL FROM CH. 20310 TO 21550 ON THE PARALLEL LINK ROAD IS FOR FILTER DRAINS. THIS COULD BE AMENDED TO KERB AND GULLY OR COMBINED KERB DRAINAGE IF REQUIRED TO SUIT THE SHARED FOOTWAY/CYCLEWAY

NOTES - Assumptions:

Area 14 requirements

- 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales).
- 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fence line.
- Where the carriageway is in cutting and superelevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.
- Field drain only shown where land drainage is required by the drainage team.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.

Contractor

- Haul road for offline section to be within footprint of new carriageway.
- Permanent fence line (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Environmental

- Mitigation hedges required to be within highway boundary.
- Non-mitigation hedges to be located in private land.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH DM

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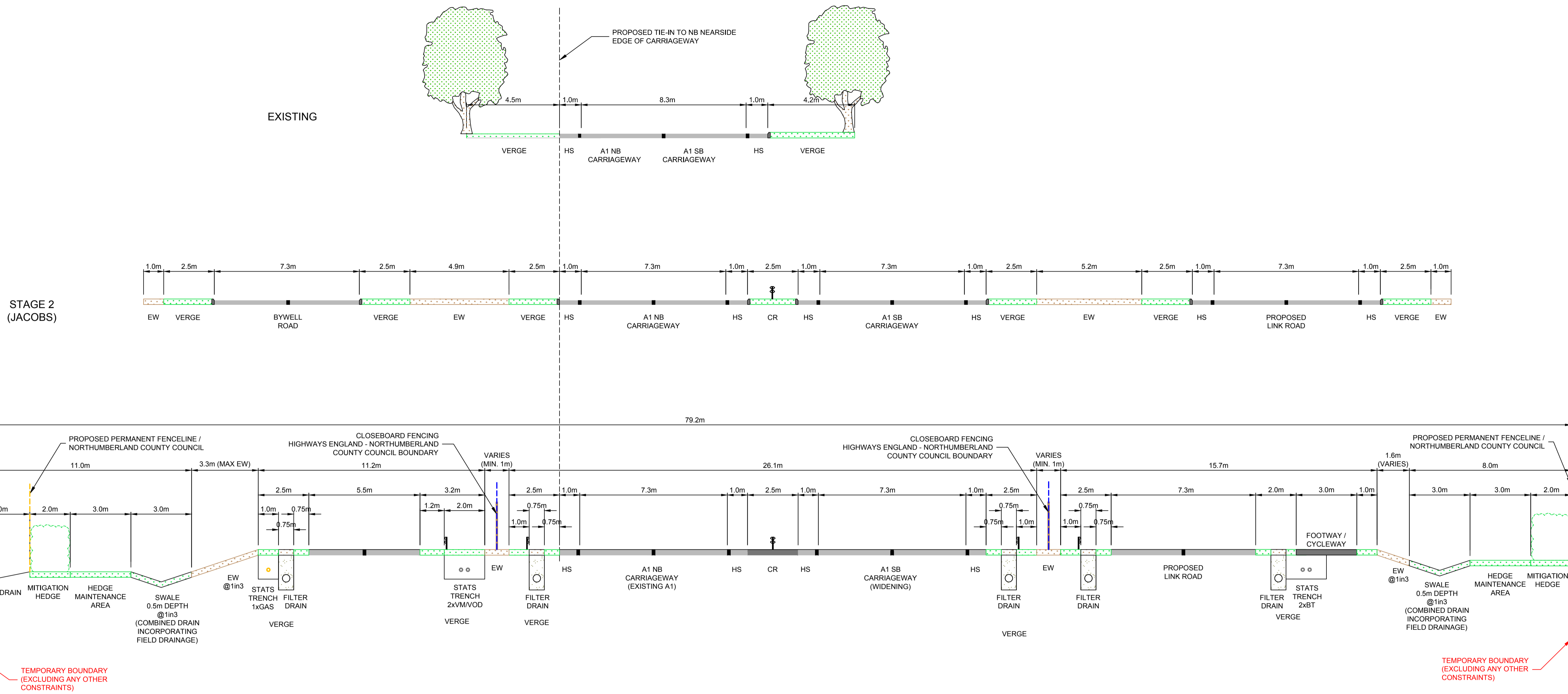
highways
england

Sustainability		Status		Project Title	
FOR INFORMATION		S2		A1 IN NORTHUMBERLAND MORPETH TO FELTON	
Drawing Title					
INDICATIVE CROSS SECTIONS SECTION 18					
Scale	Drawn	Eng. Check	Approved	Authorised	
NTS	DDN	MM	CH	DM	
Original Size	Date	Date	Date	Date	Date
A1	05/11/18	05/11/18	05/11/18	05/11/18	05/11/18
Drawing Number		Project		Revision	
HE551459		WSP		HGN	
M2F DR		CH		1107	
Section		Type		ID	
				P01	
				PW Stage Code	

DO NOT SCALE

100
0 10
Millimetres

ONLINE - NORTH SECTION CH 21000 - 21400



STATS

- TELECOMS - BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

THE CURRENT DRAINAGE PROPOSAL FROM CH. 20310 TO 21550 ON THE PARALLEL LINK ROAD IS FOR FILTER DRAINS. THIS COULD BE AMENDED TO KERB AND GULLY OR COMBINED KERB DRAINAGE IF REQUIRED TO SUIT THE SHARED FOOTWAY/CYCLEWAY

NOTES - Assumptions:

Area 14 requirements

- 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales).
- 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fence line.
- Where the carriageway is in cutting and superelevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.
- Field drain only shown where land drainage is required by the drainage team.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.

Contractor

- Haul road for offline section to be within footprint of new carriageway.
- Permanent fence line (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Environmental

- Mitigation hedges required to be within highway boundary.
- Non-mitigation hedges to be located in private land.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH DM

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Project Title		A1 IN NORTHUMBERLAND MORPETH TO FELTON			
Drawing Title		INDICATIVE CROSS SECTIONS SECTION 19			
Scale	Drawn	Eng. Check	Approved	Authorised	
NTS	DDN	MM	CH	DM	
Original Size	Date	Date	Date	Date	
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Drawing Number	Project	Originator	Volume	Revision	
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DO NOT SCALE

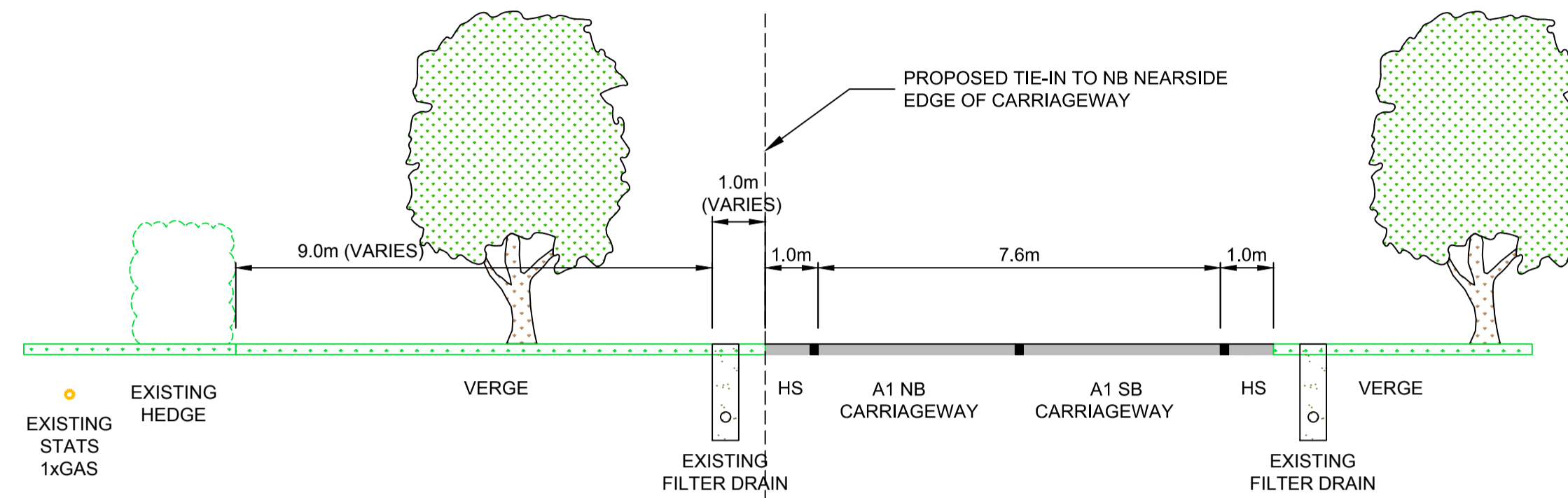
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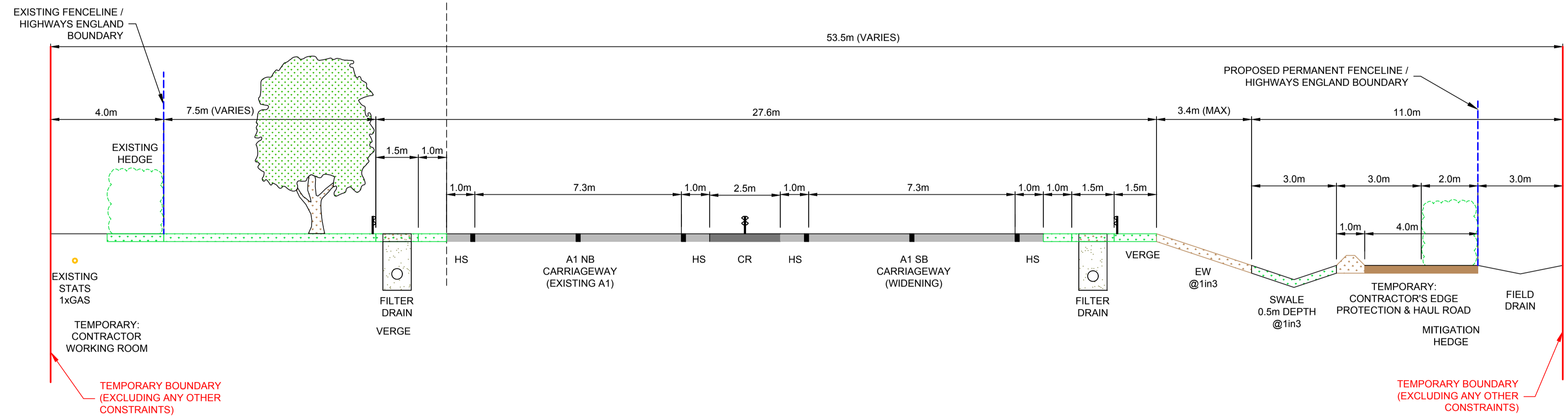
ONLINE - NORTH SECTION

CH 21750 - 21900

EXISTING



PROPOSED



STATS

- TELECOMS - BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

NOTES - Assumptions:

- Area 14 requirements**
 - 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales).
 - 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc).
 - Filter drain located in front of safety barrier for maintenance purposes.
- Safety Barrier**
 - Where required, verge safety barrier assumed at back of filter drain.
 - Maximum working width assumed W4 (<1.3m), unless stated otherwise.
- Drainage requirements**
 - For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fence line.
 - Where the carriageway is in cutting and superelevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.
 - Field drain only shown where land drainage is required by the drainage team.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.

Contractor

- Haul road for offline section to be within footprint of new carriageway.
- Permanent fence line (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Environmental

- Mitigation hedges required to be within highway boundary.
- Non-mitigation hedges to be located in private land.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH DM

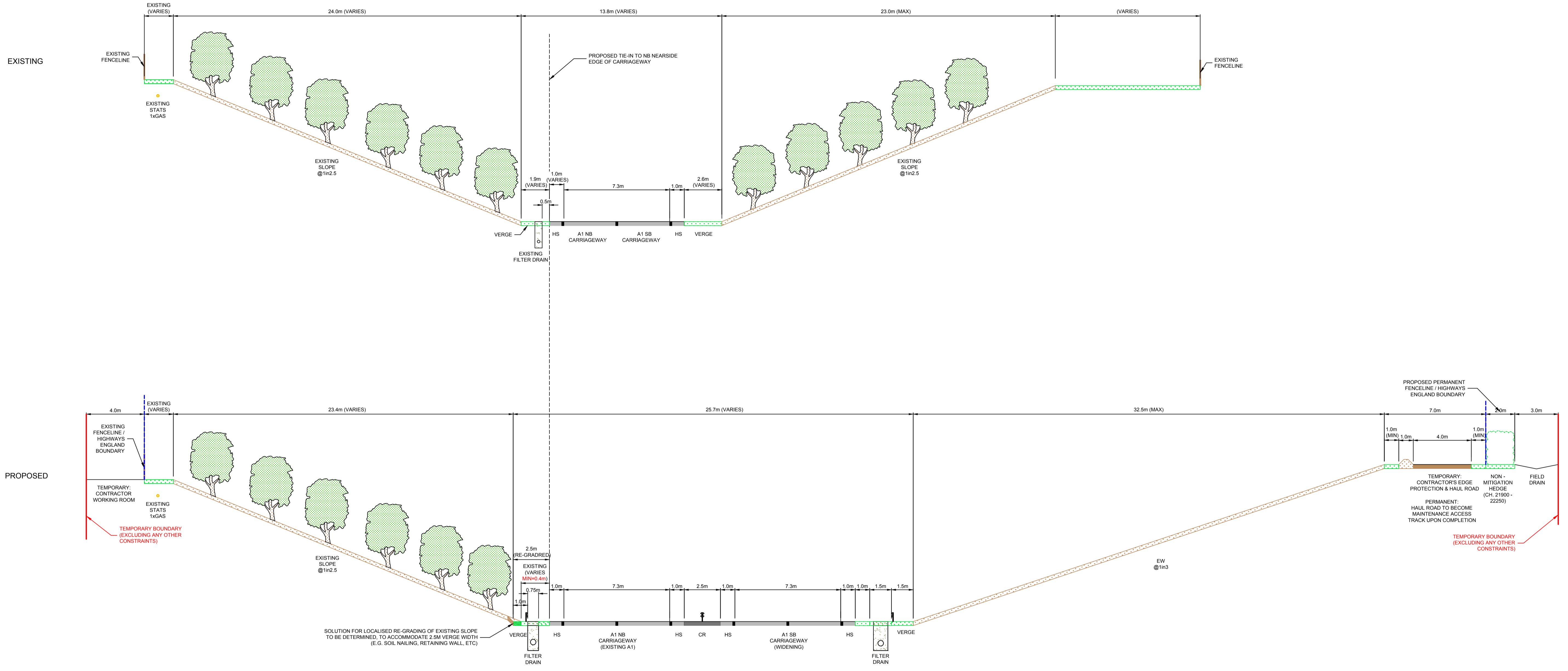
FOR INFORMATION	S2	Project Title A1 IN NORTHUMBERLAND MORPETH TO FELTON
<p>Queen Street Manchester M2 5JB, UK T+ 44 (0) 161 832 4542 wsp.com</p>		Drawing Title INDICATIVE CROSS SECTIONS SECTION 20
Scale Original Size A1	Drawn DDN Date 05/11/18	Eng. Check MM Date 05/11/18
Approved CH Date 05/11/18	Authorised DM Date 05/11/18	Revision P01
Project HE551459	Originator WSP	Volume HGN
Section	M2F DR	CH 1109
Type	DR	CH
ID	DR	CH
Direction	DR	CH
Type	DR	CH
Role	DR	CH
Number	DR	CH

DO NOT SCALE

Millimetres

ONLINE - NORTH SECTION

CH 21900 - 22300
CH 23290 - 23600



STATS

- TELECOMS - BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

NOTES - Assumptions:

Area 14 requirements

- 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales).
- 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fence line.
- Where the carriageway is in cutting and super-elevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.
- Field drain only shown where land drainage is required by the drainage team.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.

Contractor

- Haul road for offline section to be within footprint of new carriageway.
- Permanent fence line (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Environmental

- Mitigation hedges required to be within highway boundary.
- Non-mitigation hedges to be located in private land.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH DM

FOR INFORMATION	S2	Project Title A1 IN NORTHUMBERLAND MORPETH TO FELTON			
		Drawing Title INDICATIVE CROSS SECTIONS SECTION 21			
Queen Street Manchester M2 5JB, UK	T+ 44 (0) 161 832 4542 wsp.com	Scale NTS	Drawn DDN	Eng. Check MM	Approved CH
Original Size A1	Date 05/11/18	Date 05/11/18	Date 05/11/18	Date 05/11/18	Date 05/11/18
Drawing Number HE551459		Originator WSP	Volume HGN	Revision P01	
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Section	Type	ID	Direction	Type	Role

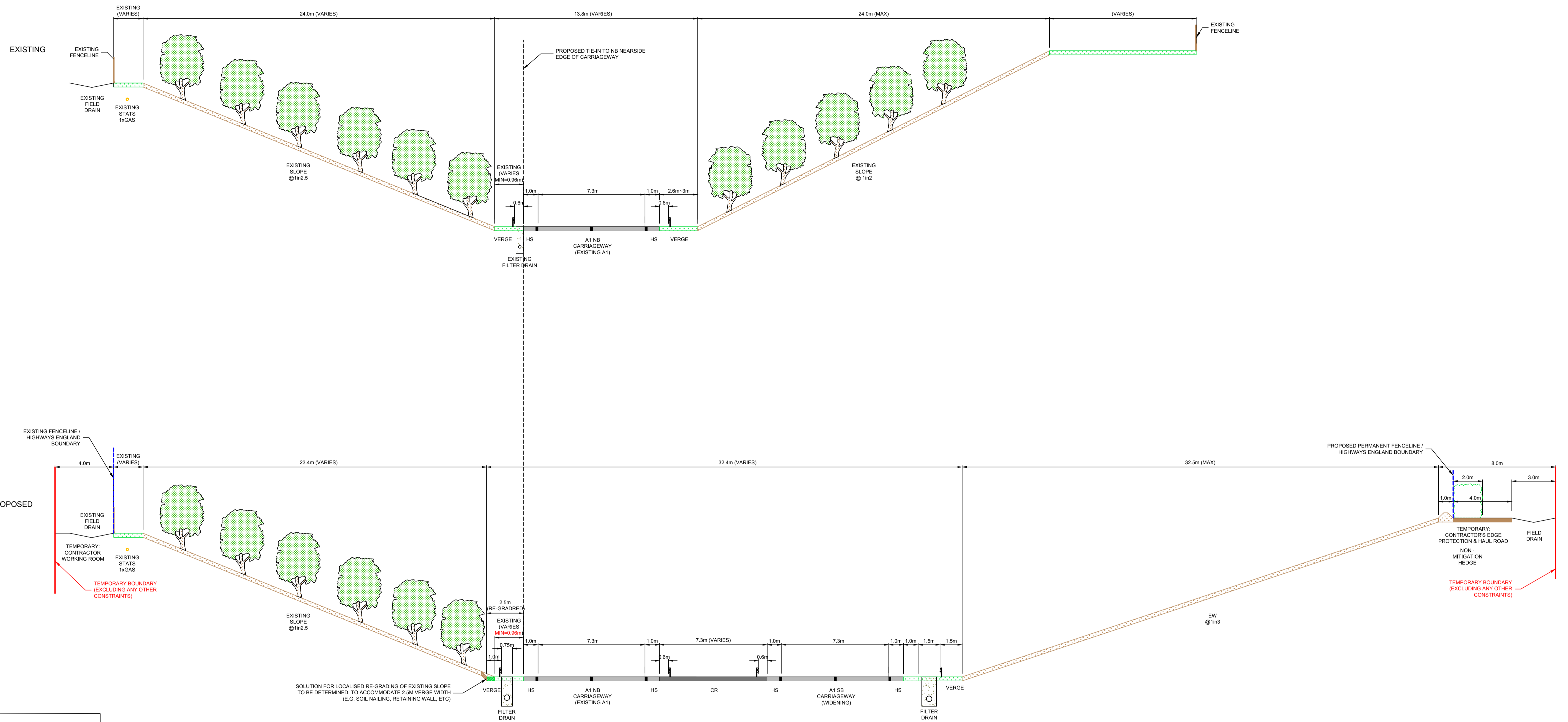
DO NOT SCALE

Millimetres
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ONLINE - NORTH SECTION

CH 22300 - 22475

CH 22700 - 22900



STATS

- TELECOMS - BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

NOTES - Assumptions:

Area 14 requirements

- 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales).
- 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fence line.
- Where the carriageway is in cutting and super-elevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.
- Field drain only shown where land drainage is required by the drainage team.

Signage

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Stats requirements

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- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.

Contractor

- Haul road for offline section to be within footprint of new carriageway.
- Permanent fence line (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Environmental

- Mitigation hedges required to be within highway boundary.
- Non-mitigation hedges to be located in private land.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH DM

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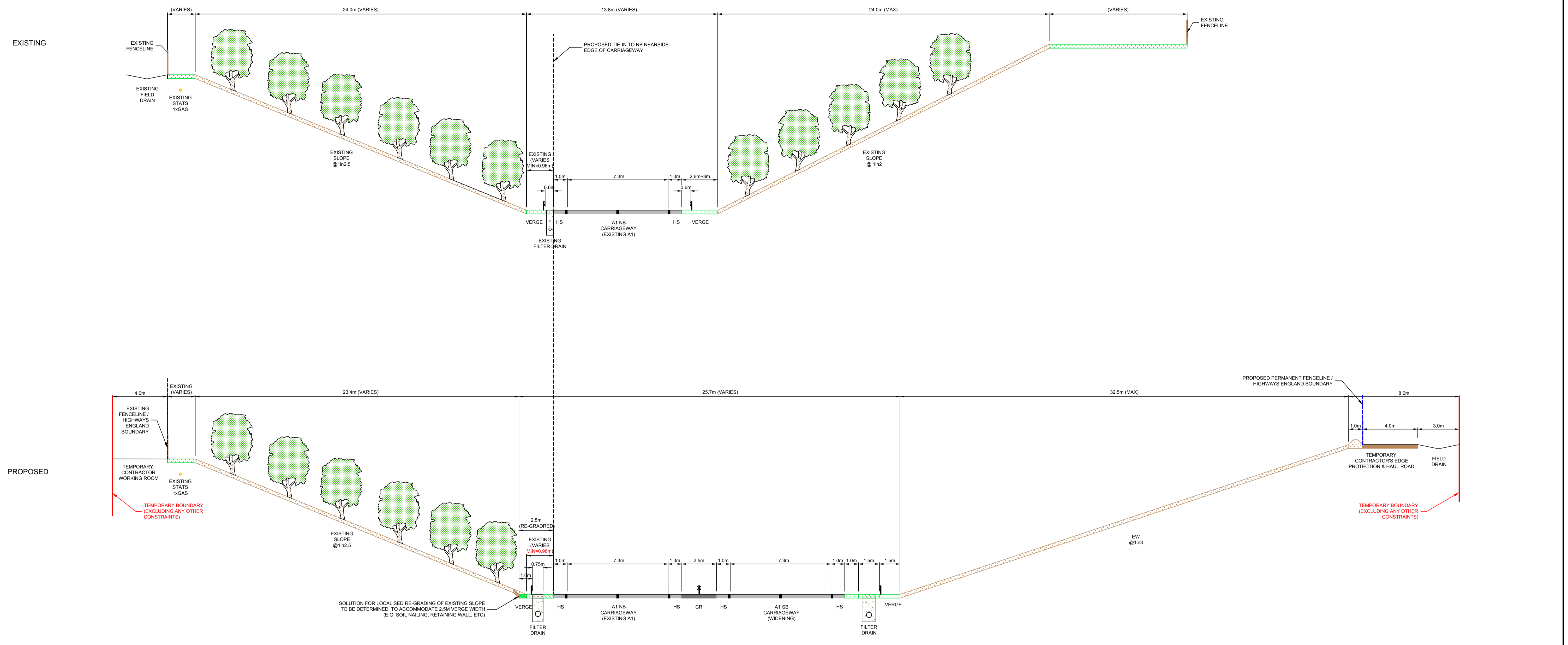
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Drawing Title		INDICATIVE CROSS SECTIONS SECTION 22			
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NTS	DDN	MM	CH	DM	
Original Size	Date	Date	Date	Date	Date
A1	05/11/18	05/11/18	05/11/18	05/11/18	05/11/18
Drawing Number	Project		Originator	Volume	Revision
HE551459	WSP		WSP	HGN	P01
Section	Type	ID	Direction	Type	Role
			M2F DR	CH	1111

DO NOT SCALE

Millimetres

ONLINE - NORTH SECTION

CH 22900 - 23080



STATS

- TELECOMS - BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

NOTES - Assumptions:

Area 14 requirements

- 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales).
- 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline.
- Where the carriageway is in cutting and superelevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.
- Field drain only shown where land drainage is required by the drainage team.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

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- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.

Contractor

- Haul road for offline section to be within footprint of new carriageway.
- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Environmental

- Mitigation hedges required to be within highway boundary.
- Non-mitigation hedges to be located in private land.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH

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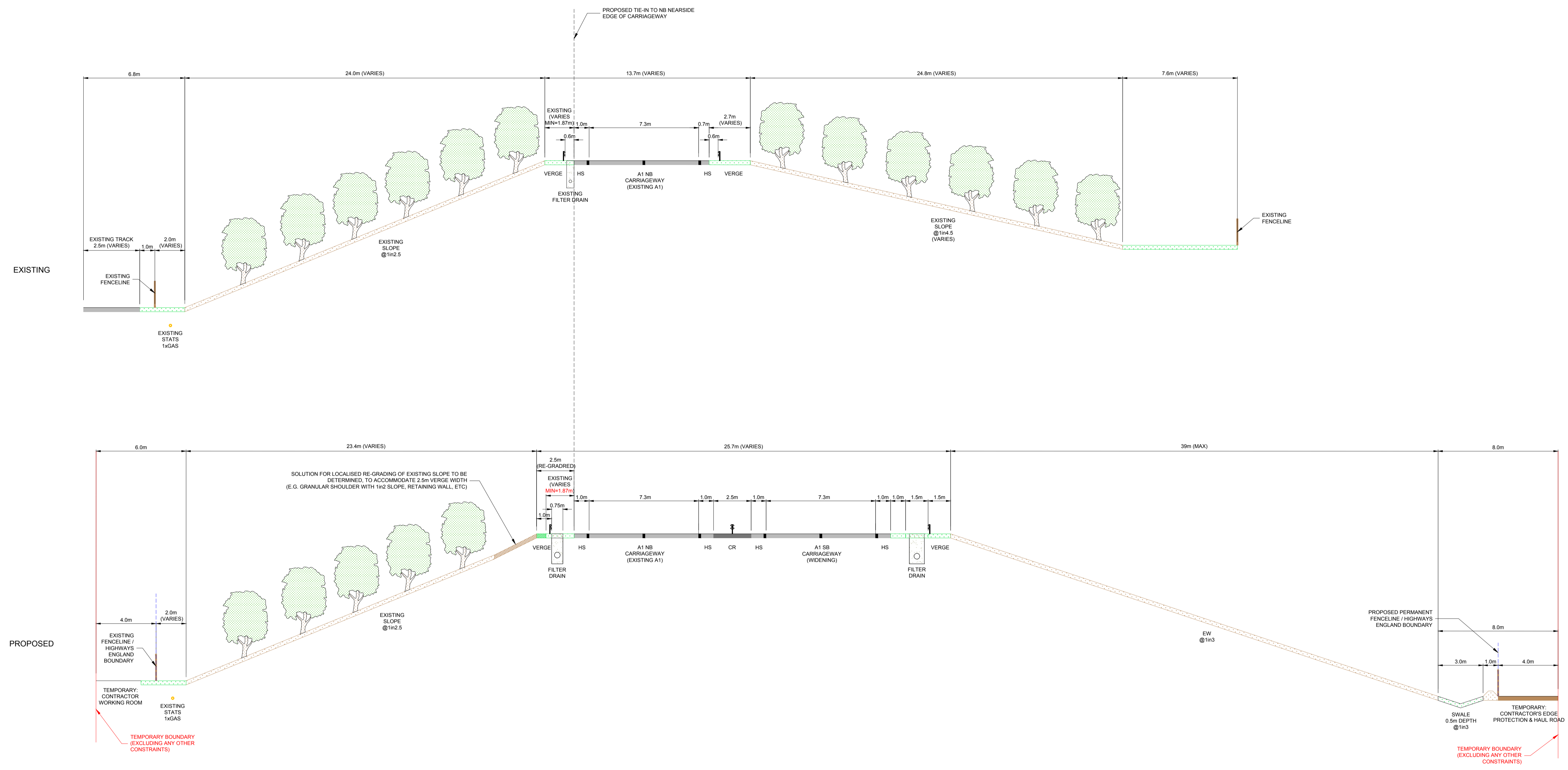
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Project Title		A1 IN NORTHUMBERLAND MORPETH TO FELTON			
Drawing Title		INDICATIVE CROSS SECTIONS SECTION 23			
Scale	Drawn	Eng. Check	Approved	Authorised	
NTS	DDN	MM	CH	DM	
Original Size	Date	Date	Date	Date	Date
A1	05/11/18	05/11/18	05/11/18	05/11/18	05/11/18
Drawing Number	Project		Originator	Volume	Revision
HE551459	WSP		HGN		P01
Section	Type	ID	Direction	Type	Role

DO NOT SCALE

Millimetres
0 10 100

ONLINE - NORTH SECTION CH 23080 - 23290



STATS

- TELECOMS - BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

NOTES - Assumptions:

Area 14 requirements

- 3m clearance at the back of any earthwork slopes for hedge maintenance where within highway boundary (not including swales).
- 1m minimum clearance from swale/earthworks to fixed assets (fence, lighting column, VRS, sign posts, etc).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline.
- Where the carriageway is in cutting and superelevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.
- Field drain only shown where land drainage is required by the drainage team.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.

Contractor

- Haul road for offline section to be within footprint of new carriageway.
- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Environmental

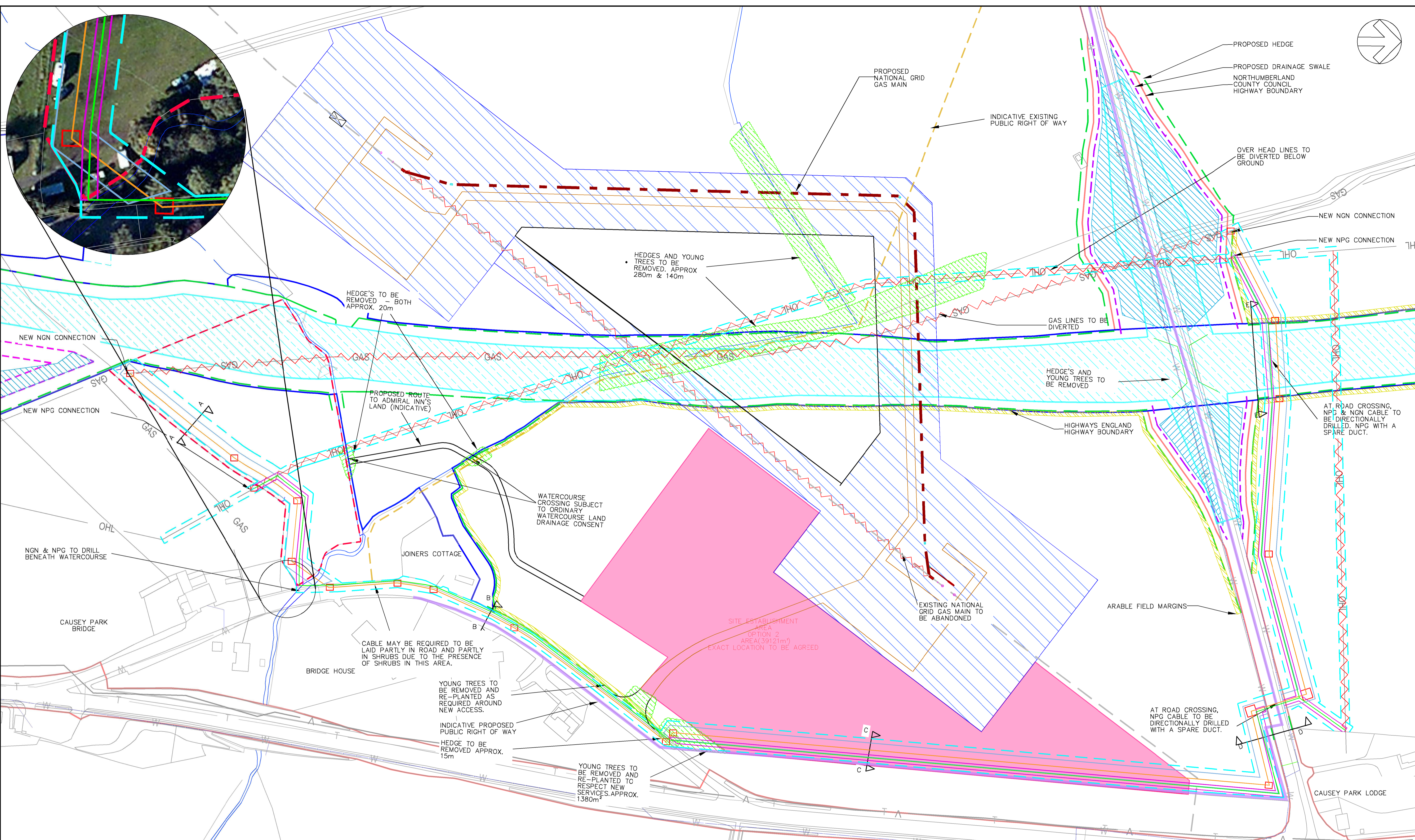
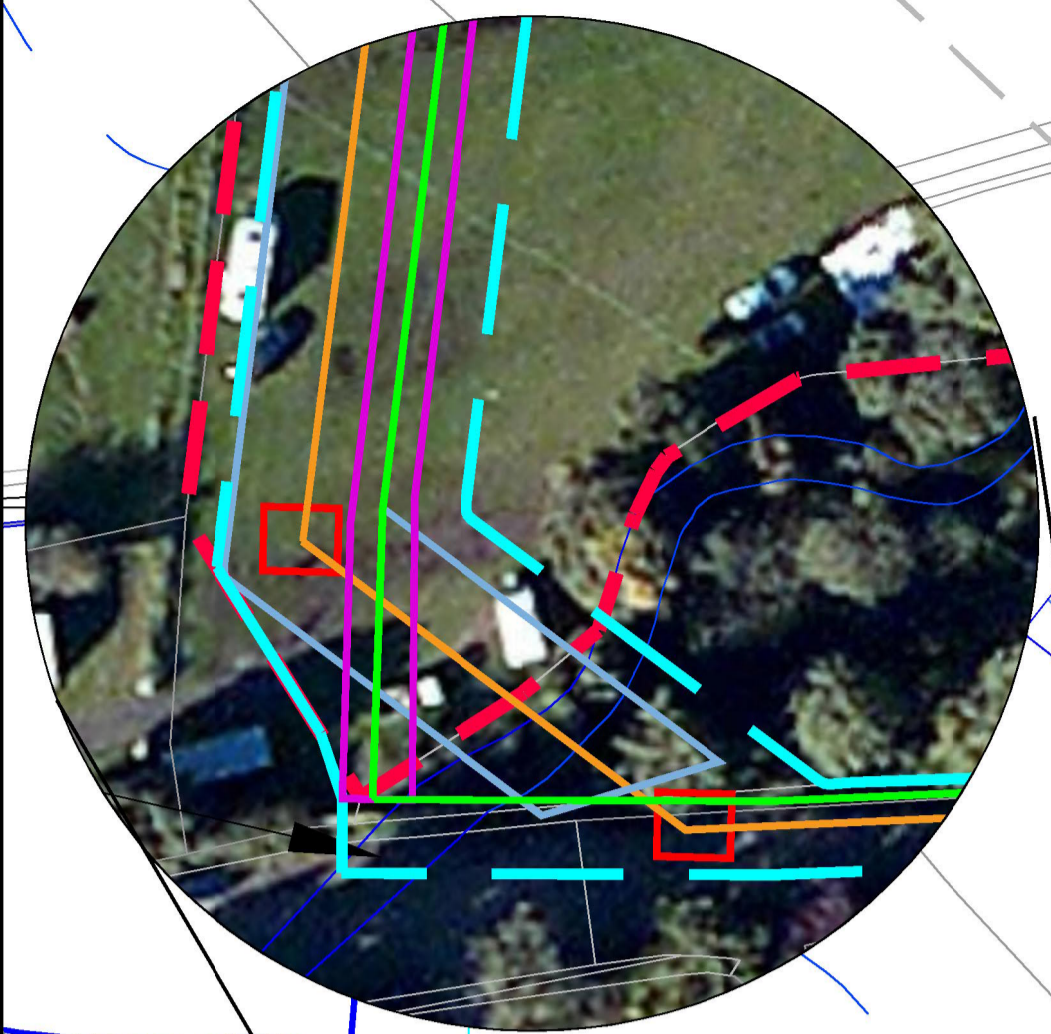
- Mitigation hedges required to be within highway boundary.
- Non-mitigation hedges to be located in private land.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH DM

FOR INFORMATION		S2		Project Title A1 IN NORTHUMBERLAND MORPETH TO FELTON			
 Queen Street Manchester M2 5JB, UK T+ 44 (0) 161 832 4542 wsp.com				Drawing Title INDICATIVE CROSS SECTIONS SECTION 24			
Scale	Drawn	Eng. Check	Approved	Authorised			
NTS	DDN	MM	CH	DM			
Original Size	Date	Date	Date	Date			
A1	05/11/18	05/11/18	05/11/18	05/11/18			
Drawing Number HE551459		Originator WSP		Volume HGN		Revision P01	
Section		Type		ID		PW Stage Code	
		M2F DR		CH 1113			
		Direction		Type		Role	

DO NOT SCALE

Millimetres
0 10 100



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 - ANY DISCREPANCIES WITH THIS DRAWINGS ARE TO BE BROUGHT TO THE ATTENTION OF WSP
 - ALL DIMENSIONS ARE TO BE CHECKED ON SITE.
 - NORTHERN GAS NETWORK & NORTHERN POWERGRID ARE TO CONFIRM PIPE/CABLE BENDING RADIUS
 - IT IS ASSUMED NORTHERN GAS WILL BE DIRECTIONALLY DRILLING FOR THE NEW LENGTH OF PIPE IN ITS ENTIRETY.

KEY:

	PROPOSED NORTHERN POWERGRID DIVERSION WITH 2m EASEMENT		PROPOSED DRAINAGE SWALE
	PROPOSED NORTHERN GAS NETWORK DIVERSION WITH 5m EASEMENT		PROPOSED HEDGE
	PROPOSED WORKING AREA		PROPOSED ENVIRONMENTAL MITIGATION EARTHWORKS
	ASSETS TO BE REMOVED / MADE REDUNDANT		PROPOSED ARABLE FIELD MARGIN
	DRILL BOX		PROPOSED HIGHWAYS ENGLAND HIGHWAY BOUNDARY
	AREAS OF VEGETATION TO BE REMOVED (AREAS SHOWN ARE INDICATIVE, TAKEN FROM SATELLITE IMAGERY)		PROPOSED NORTHUMBERLAND COUNTY COUNCIL HIGHWAY BOUNDARY

Rev.	Date	Description	By	Eng'g	Dir'g	App'r
P05	16.09.19	UPDATED NGN DIVERSION ROUTE AROUND ADMIRAL INNS LAND	RF	NM	NM	CJ
P04	01/03/19	REVISED WORKING AREAS AROUND 1050NB PIPE DIVERSION	RF	NM	NM	CJ
P03	18/10/19	REMOVAL OF SOIL MOUNDS & INCLUSION OF DRAINAGE SWALE	RF	PWW	NM	CJ
P02	18/12/18	ENVIRONMENTAL MITIGATION EARTHWORKS ADDED	RF	NM	NM	CJ
P01	07/12/18	AMENDMENTS TO PROPOSED ACCESS TO ADMIRAL INNS LAND	RF	NM	NM	CJ

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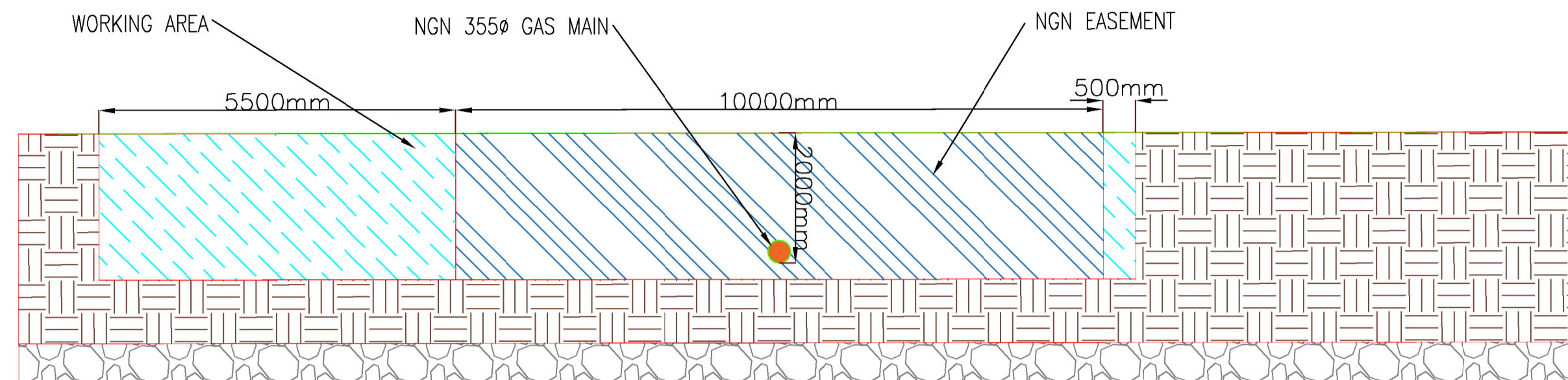
highways england

Subsidiary		Status	Project Title		
FOR INFORMATION		S2	A1 IN NORTHUMBERLAND MORPETH TO FELTON		
Drawing Title		A1 IN NORTHUMBERLAND (CAUSEY PARK) DIVERSIONS - LAYOUT SHEET 1 OF 2			
Scale	Drawn	Eng. Check	Approved	Authorised	
1:1250	R.FOWKES	N.MACDONALD	M.DAWSON	C.JOHNSON	
Original Size	Date	Date	Date	Date	
A1	20/11/18	20/11/18	20/11/2018	20/11/2018	
Drawing Number	Project	Originator	Volume	Revisor	
HE551459		WSP	VUT	P05	
Section	Type	Direction	Type	Role	Number
				M2F DR	CU 1640
				PW Stage Code	PWDSC

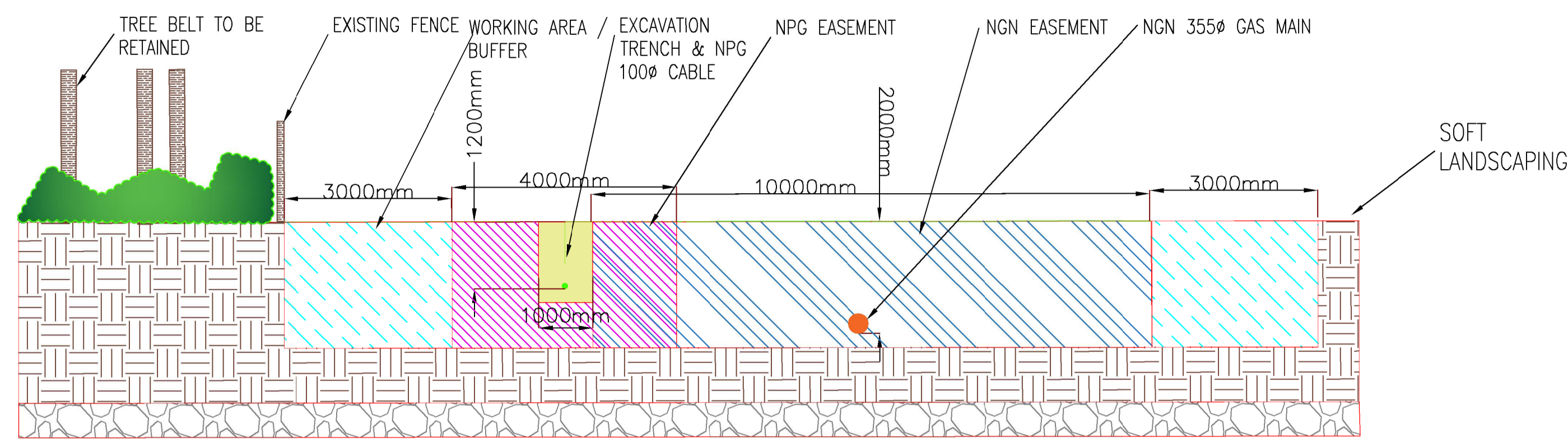
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Millimetres
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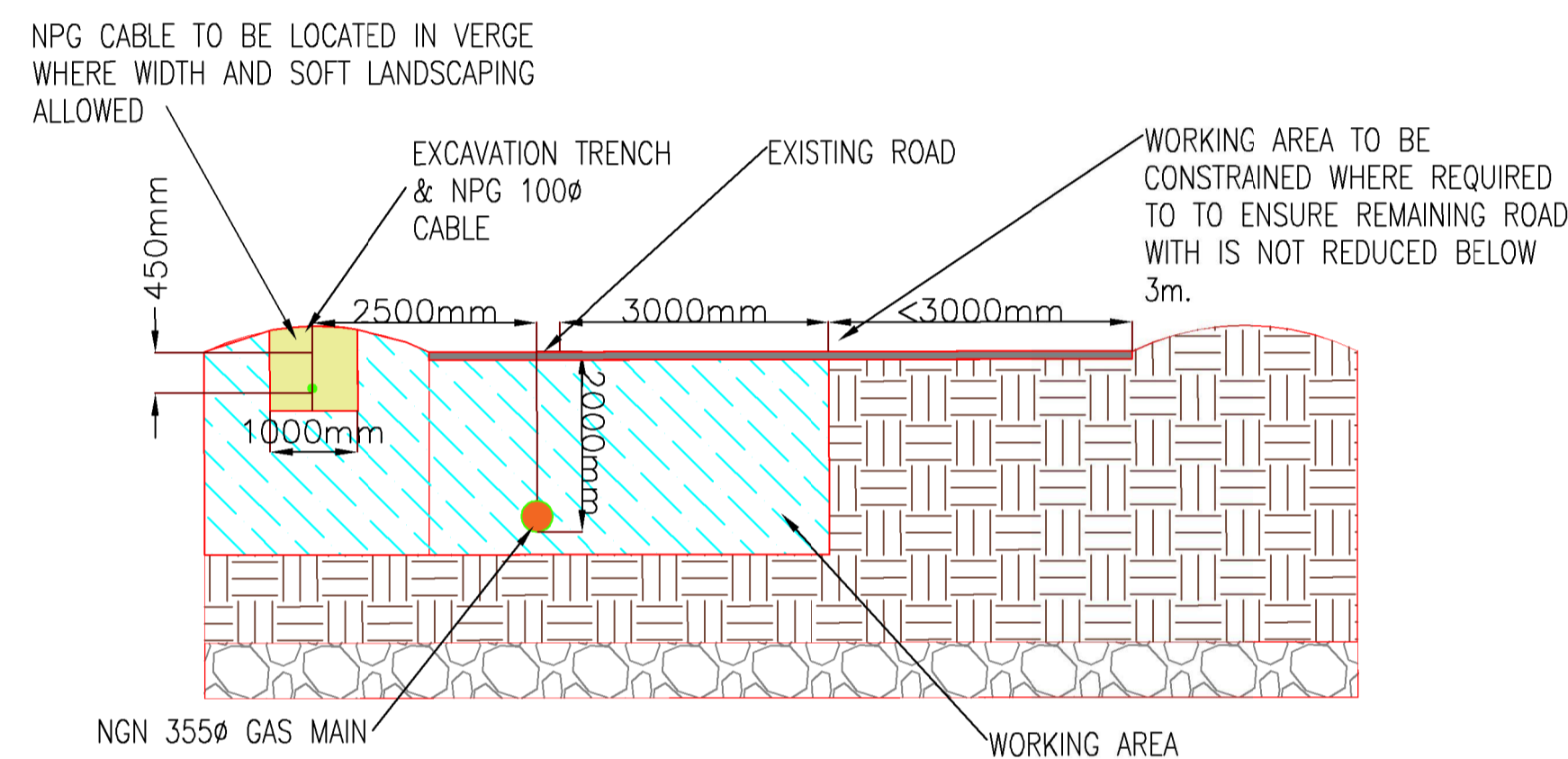
SECTION A-A



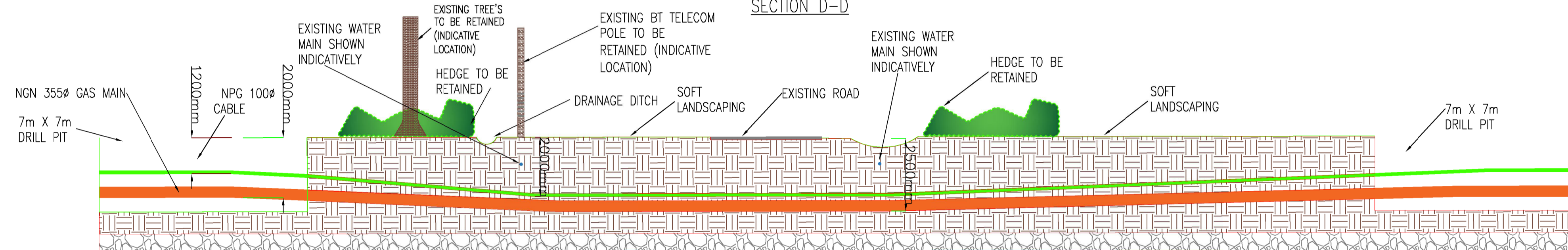
SECTION C-C



SECTION B-B

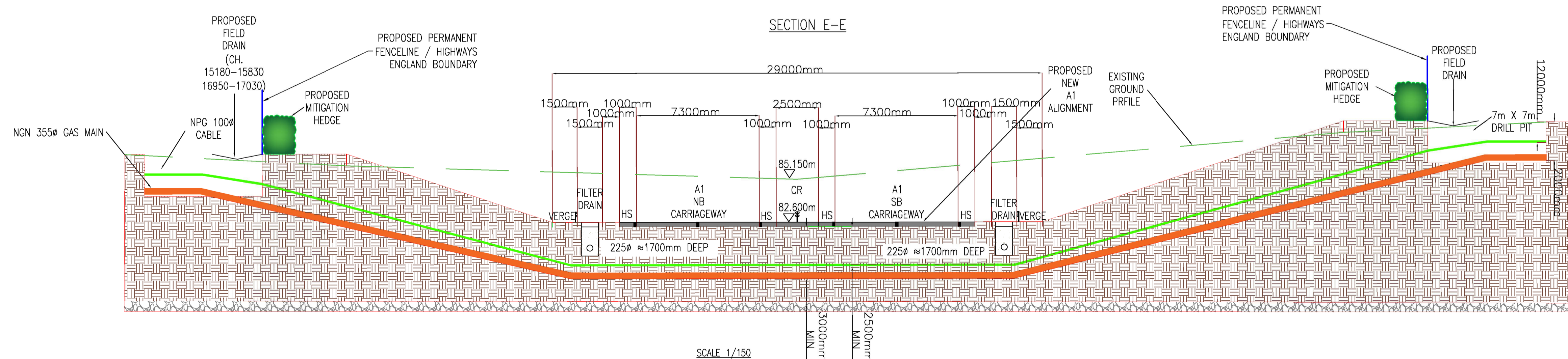


SECTION D-D



SCALE 1/100

SECTION E-E



SCALE 1/150

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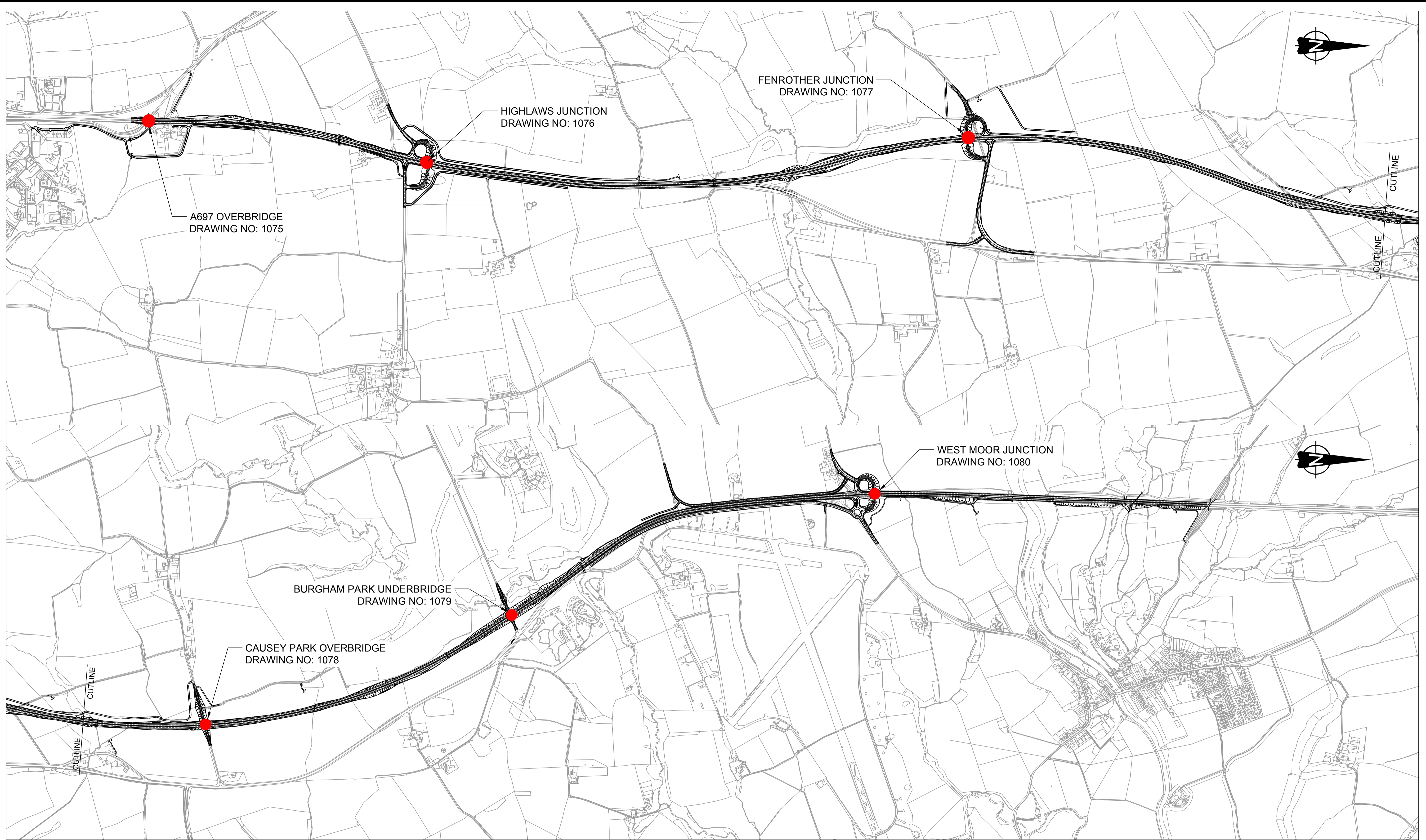
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- NORTHERN GAS NETWORK & NORTHERN POWERGRID ARE TO CONFIRM PIPE/CABLE BENDING RADIUS
- IT IS ASSUMED NORTHERN GAS WILL BE DIRECTIONALLY DRILLING FOR THE NEW LENGTH OF PIPE IN ITS ENTIRETY.
- THE DEPTH OF EASEMENTS ON THESE SECTIONS IS SHOWN AT 250mm BELOW THE INVERT LEVEL OF PIPES/CABLES FOR ILLUSTRATIVE PURPOSES ONLY.
- DIMENSIONS OF ABOVE GROUND CONSTRAINTS SUCH AS TREES & HEDGES ARE NOT TO SCALE

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P02	16.09.19	SECTION 'A' UPDATED TO REFLECT CHANGES TO LAYOUT	RF	NM	NM	CJ
P01	21/11/2018	FIRST ISSUE	RF	NM	NM	CJ

Subsidiary	FOR INFORMATION	Status	S2	Project Title	A1 IN NORTHUMBERLAND MORPETH TO FELTON							
<p>Queen Street Manchester M2 5JB, UK T+ 44 (0) 161 832 4542 wsp.com</p>				Drawing Title	<p>NPG & NGN A1 IN NORTHUMBERLAND (CAUSEY PARK) DIVERSIONS - SECTIONS SHEET 2 OF 2</p>							
© WSP UK Ltd	Client	highways england	Scale	1:75 or as noted	Drawn	R.FOWKES	Eng. Check	N.MACDONALD	Approved	M.DAWSON	Authorised	C.JOHNSON
			Original Size	A1	Date	20/11/18	Date	20/11/18	Date	20/11/2018	Date	20/11/2018
			Drawing Number	HE551459	Originator	WSP	Volume	VUT	Revised	P02	PW Stage Code	
			Section		Direction	M2F	Type	DR	CU	1641	PW Stage Code	

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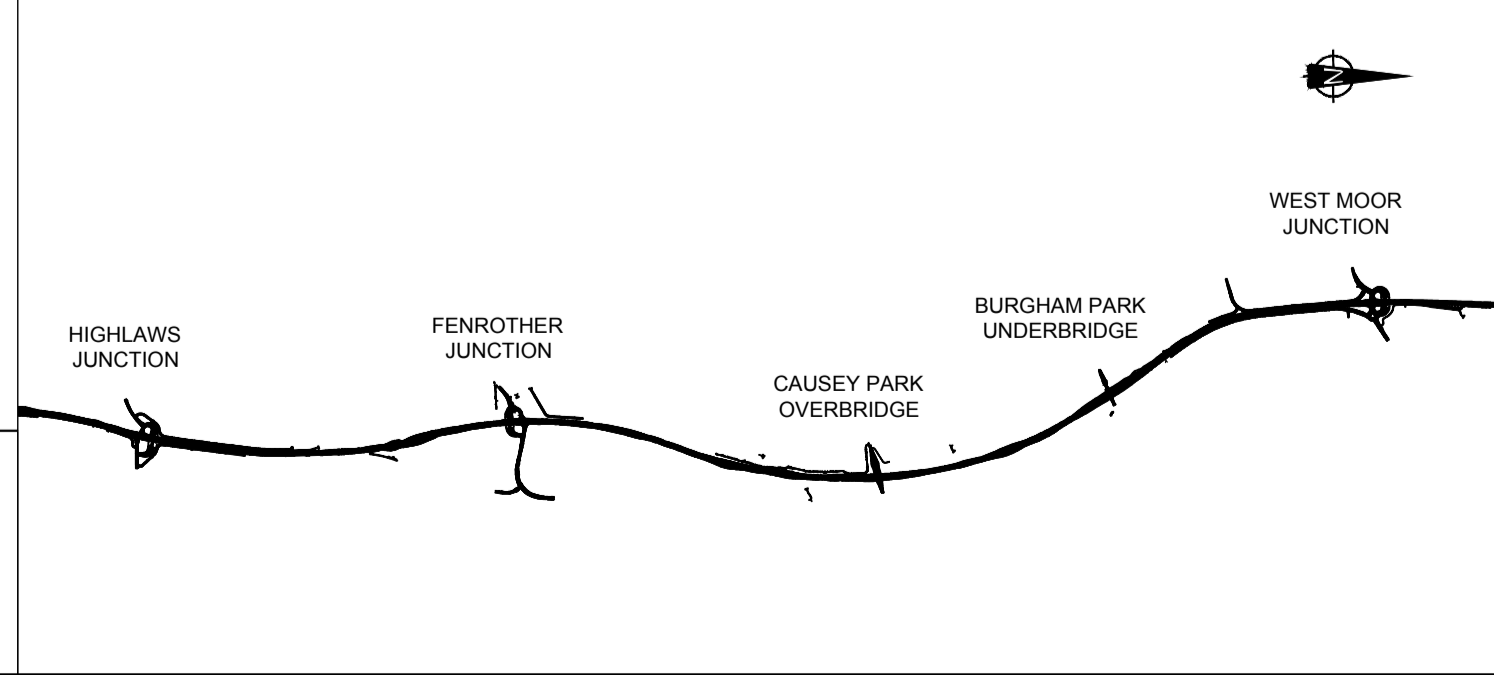
PLAN KEY

● LOCATION OF CROSS SECTION

▬ PROPOSED A1 ALIGNMENT

NOTES

1. For Indicative Cross Sections, see drawings: HE551459-WSP-HGN-M2F-DR-CH-1089 to 1113



Rev.	Date	Description	By	Eng'g CHK	Disc' CHK	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO	DDN	MM	CH	DM

Suitability: FOR INFORMATION

Status: S2

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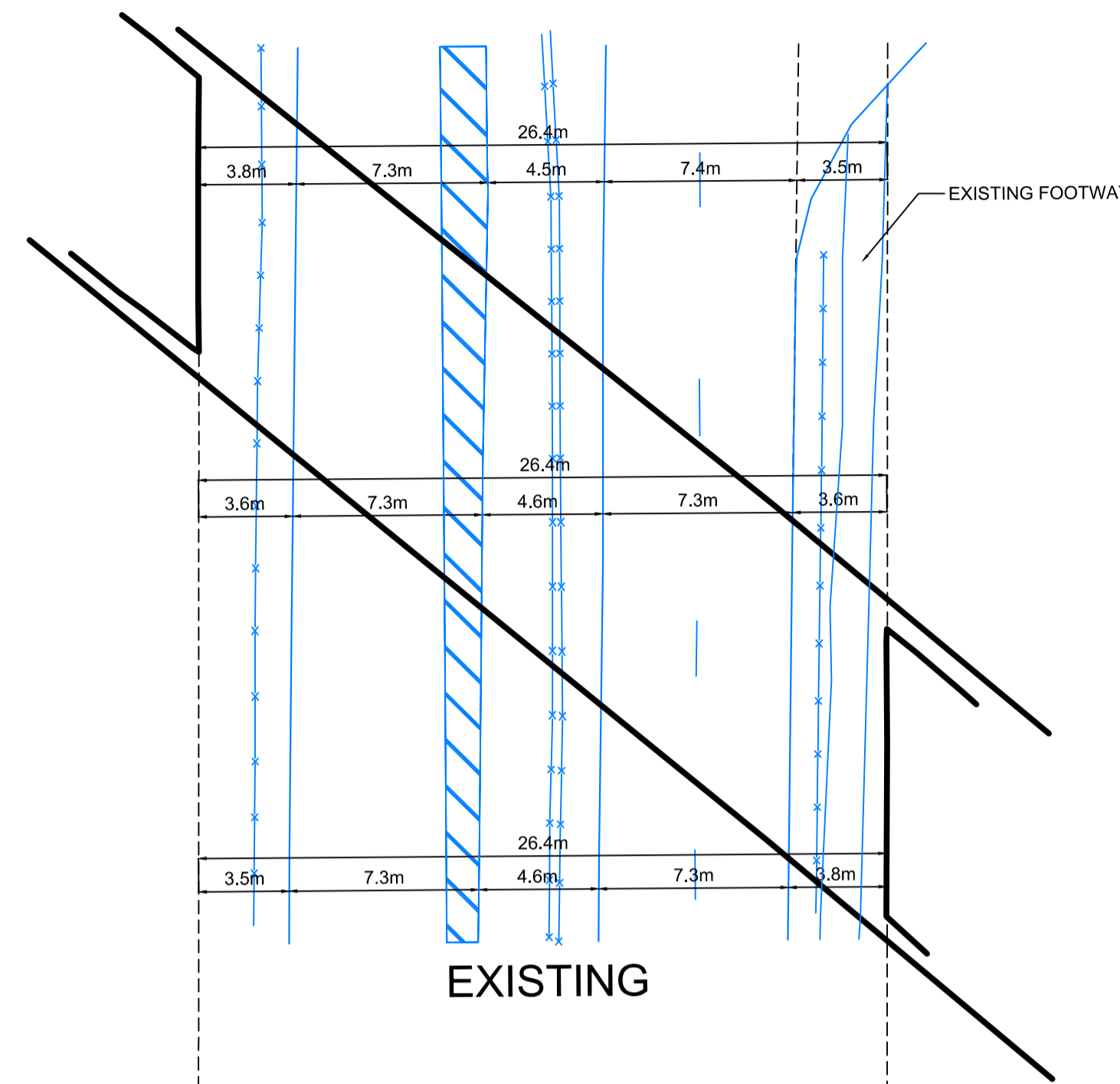
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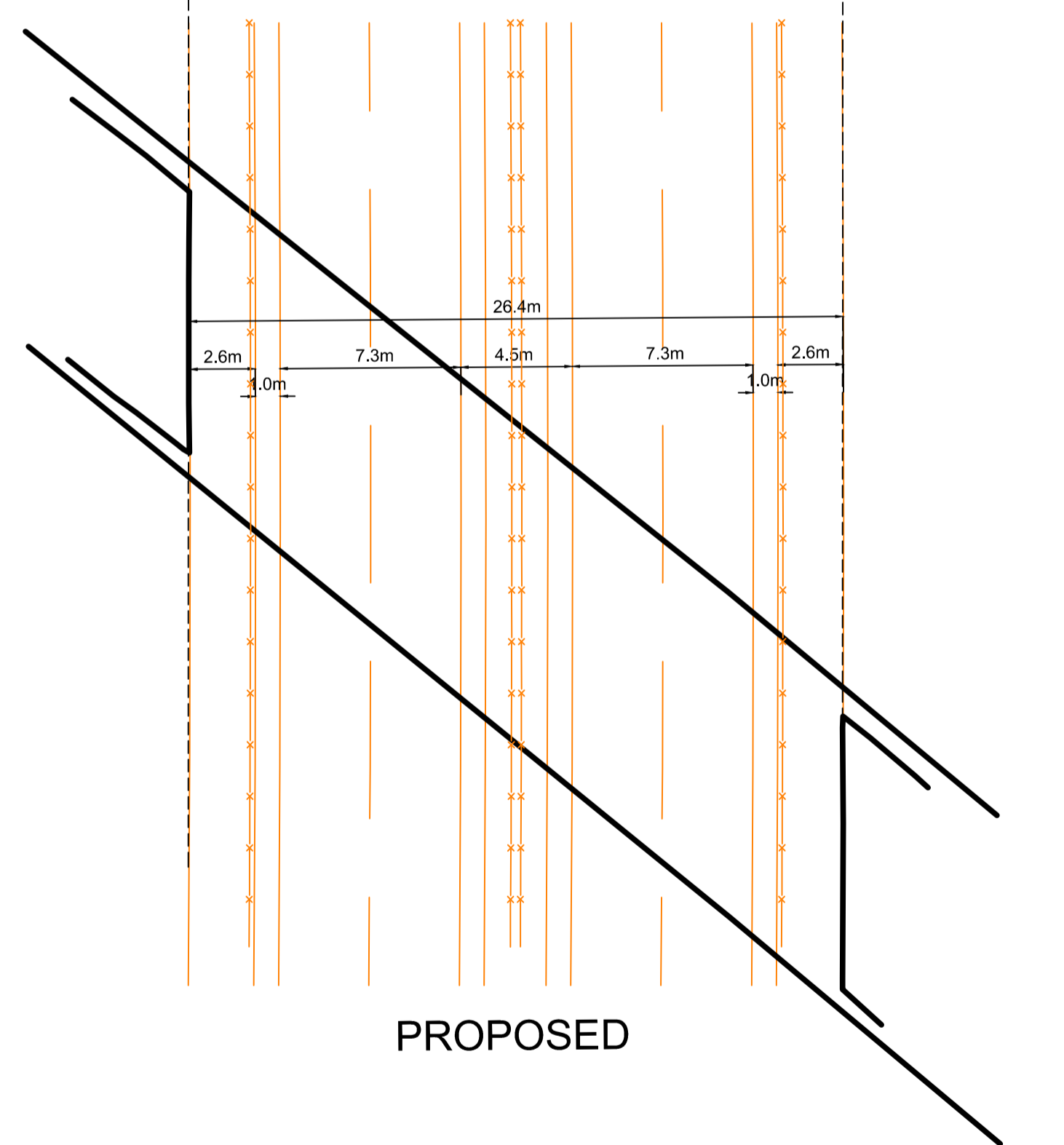
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Drawing Title: PINCHPOINT CROSS SECTIONS PLAN OVERVIEW					
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Original Size: A1	Date: 05/11/18	Date: 05/11/18	Date: 05/11/18	Date: 05/11/18	Date: 05/11/18
Drawing Number: HE551459	Project: M2F	Originator: WSP	Volume: HGN	Revision: 1074	P01
Section:	Type:	ID:	Direction: M2F	Type: DR	Role: CH
					Number: 1074

PLAN VIEW

DO NOT SCALE



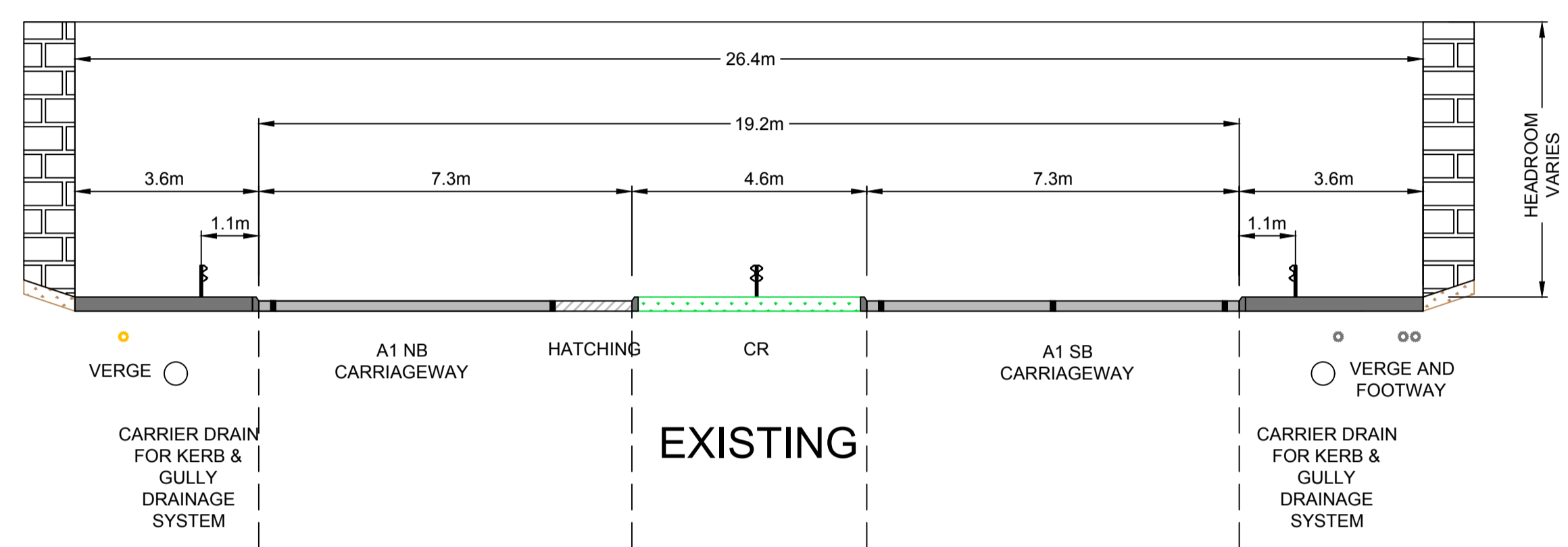
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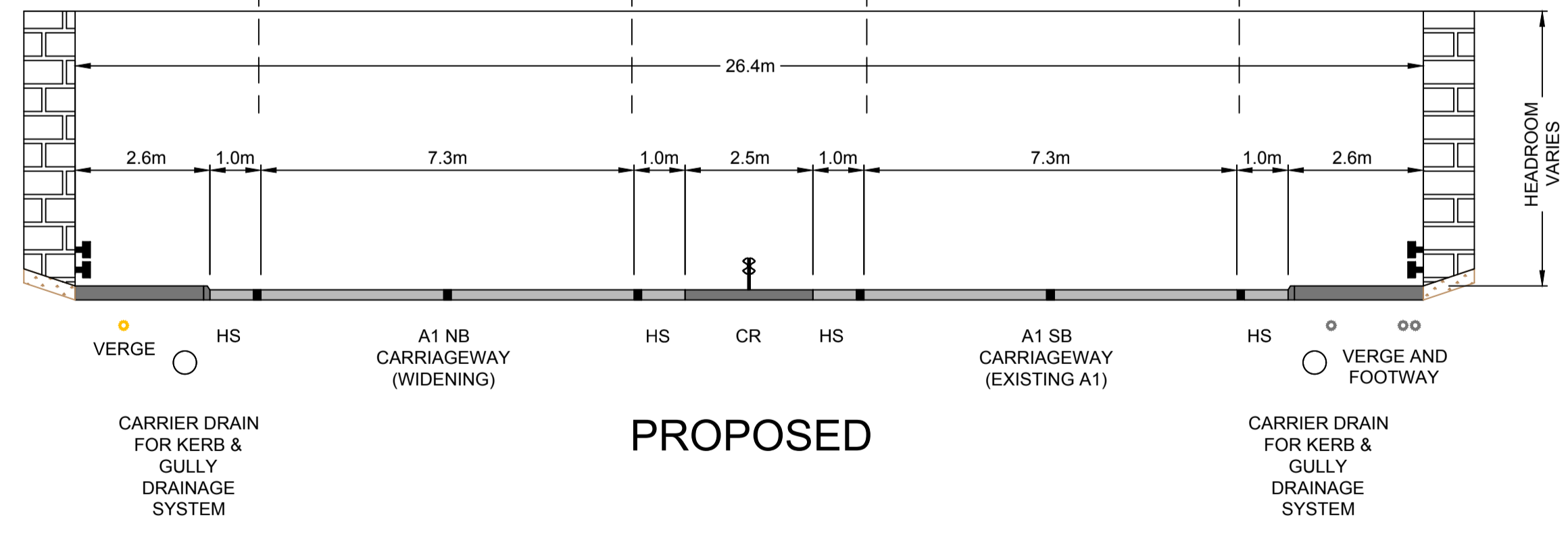
PROPOSED

CROSS SECTION CH 10870 - A697 OVERBRIDGE

A697 OVERBRIDGE



EXISTING



PROPOSED

PLAN KEY

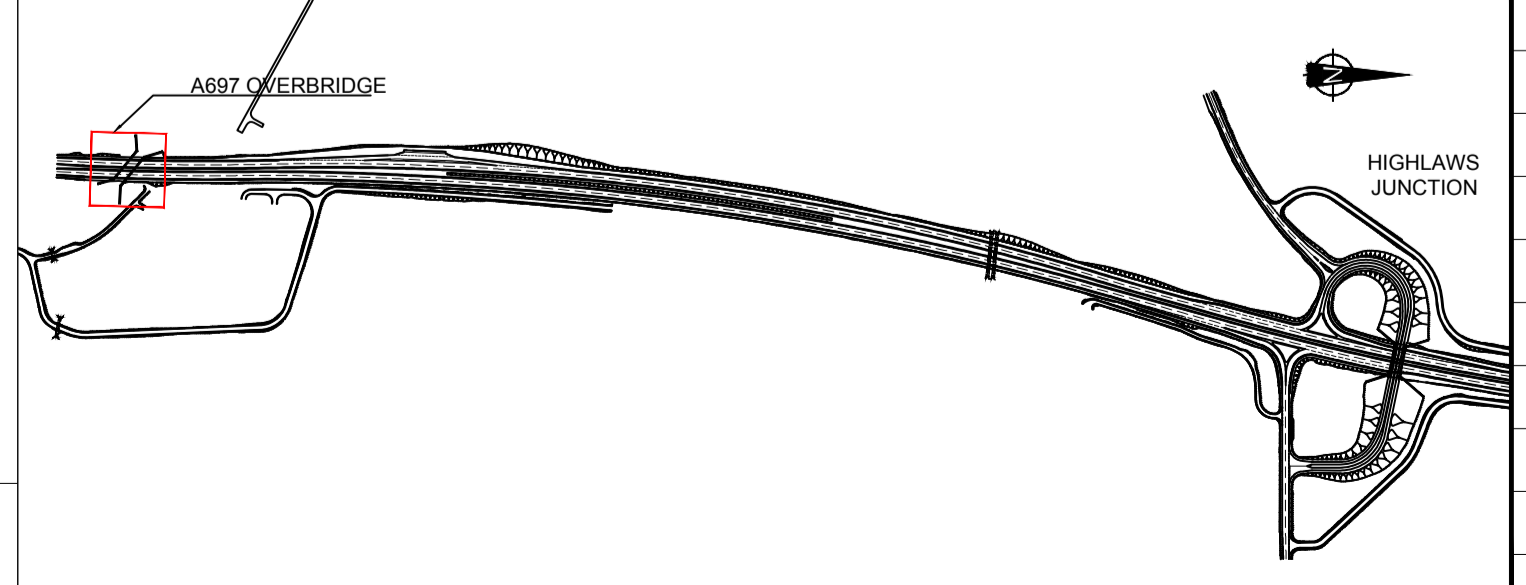
- EXISTING CARRIAGEWAY
- PROPOSED CARRIAGEWAY
- A697 OVERBRIDGE

STATS

- TELECOMS - BT / VODAFONE
- WATER MAIN
- GAS MAIN
- ELECTRICITY

NOTES

1. Drainage - Both verges contain existing kerb/gully drainage system.
2. Stats - Both verges contain existing stat systems.
3. Cross sections show an indicative arrangement



Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO	DDN	MM	CH	DM

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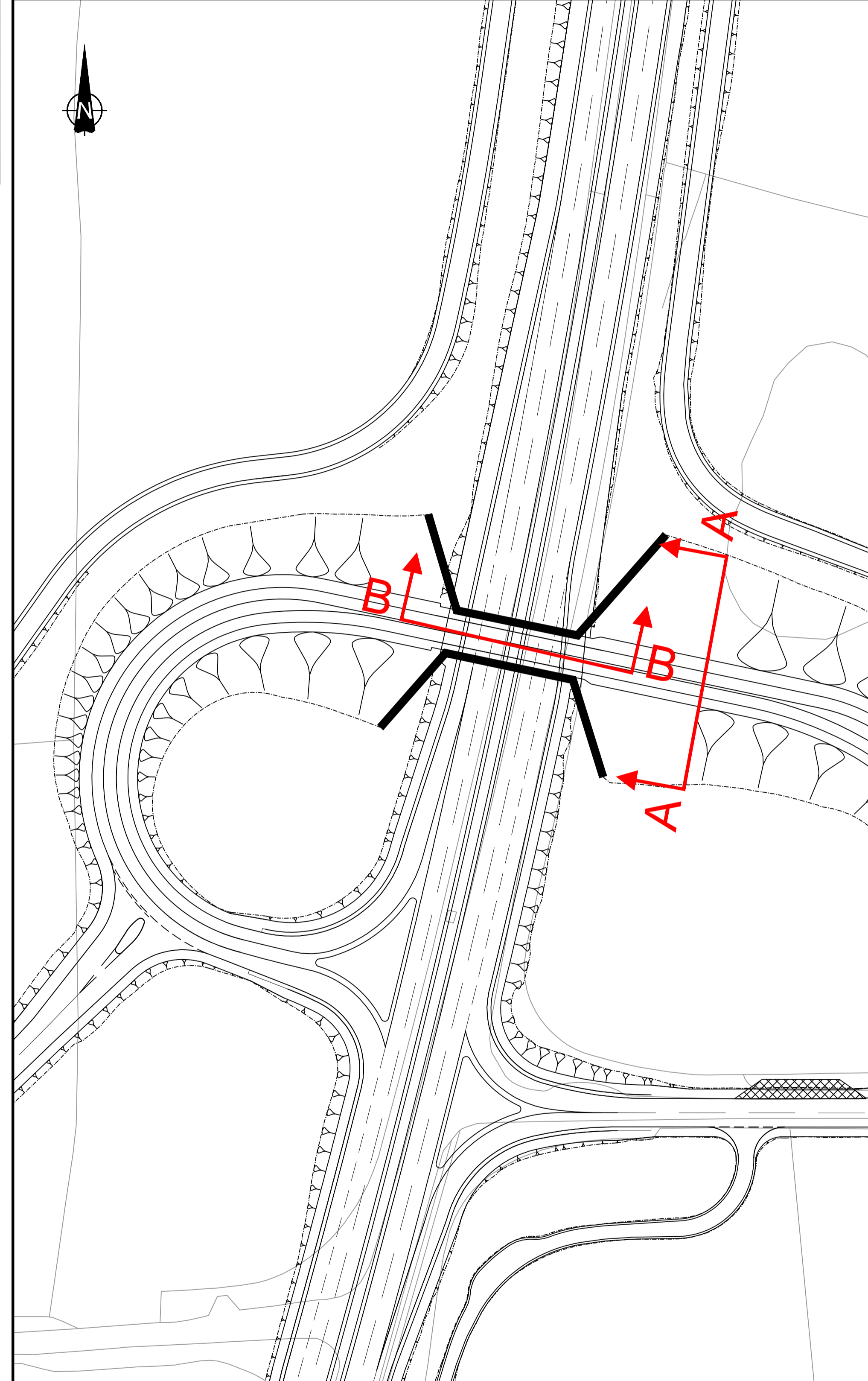
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Project Title		A1 IN NORTHUMBERLAND MORPETH TO FELTON			
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NTS	DDN	MM	CH	DM	
Original Size	Date	Date	Date	Date	
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HE551459		WSP	HGN	P01	
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					Number
					1075

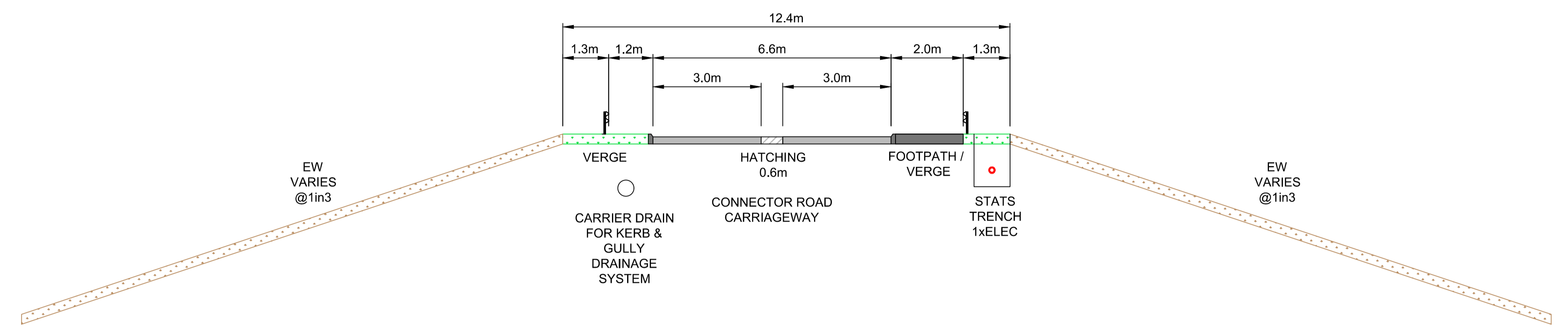
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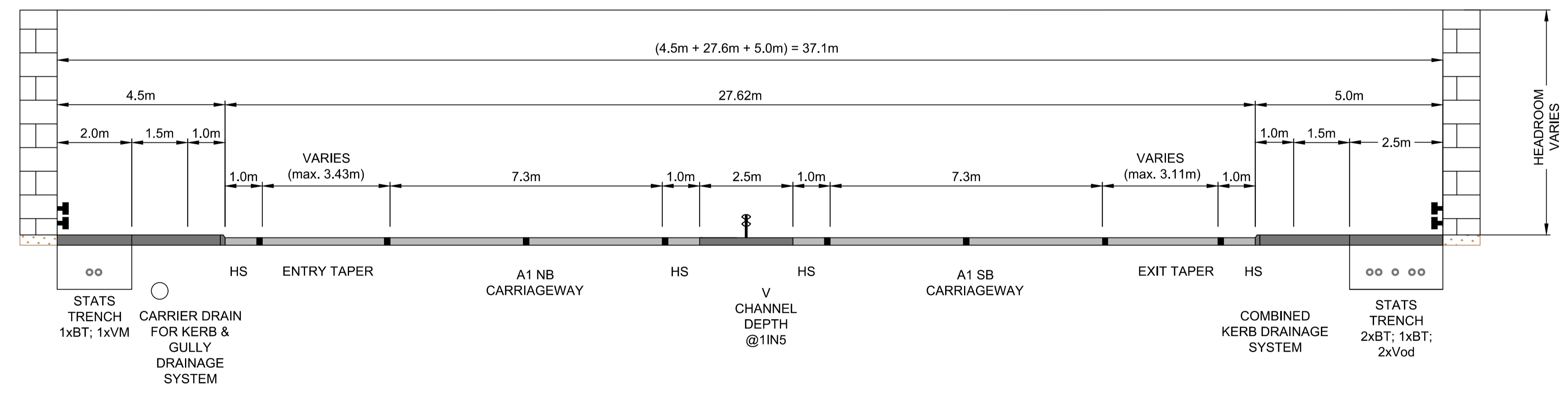
PLAN VIEW



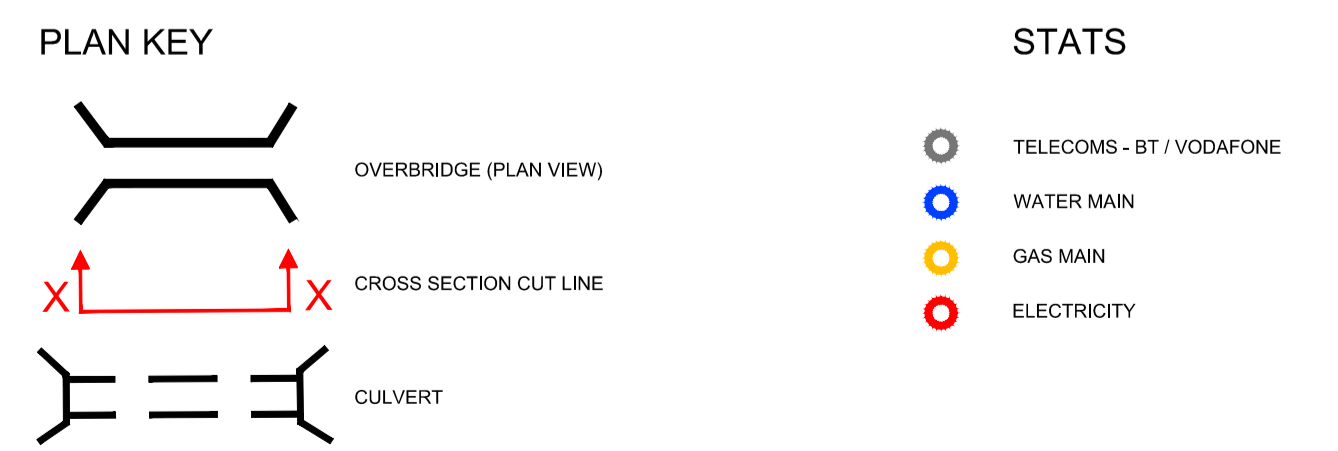
CROSS SECTION CH 12200 - HIGHLAWS JUNCTION



SECTION A - A CHAINAGE 12200 (APPROX.)
CROSS SECTION AT CONNECTOR ROAD APPROACH TO THE STRUCTURE

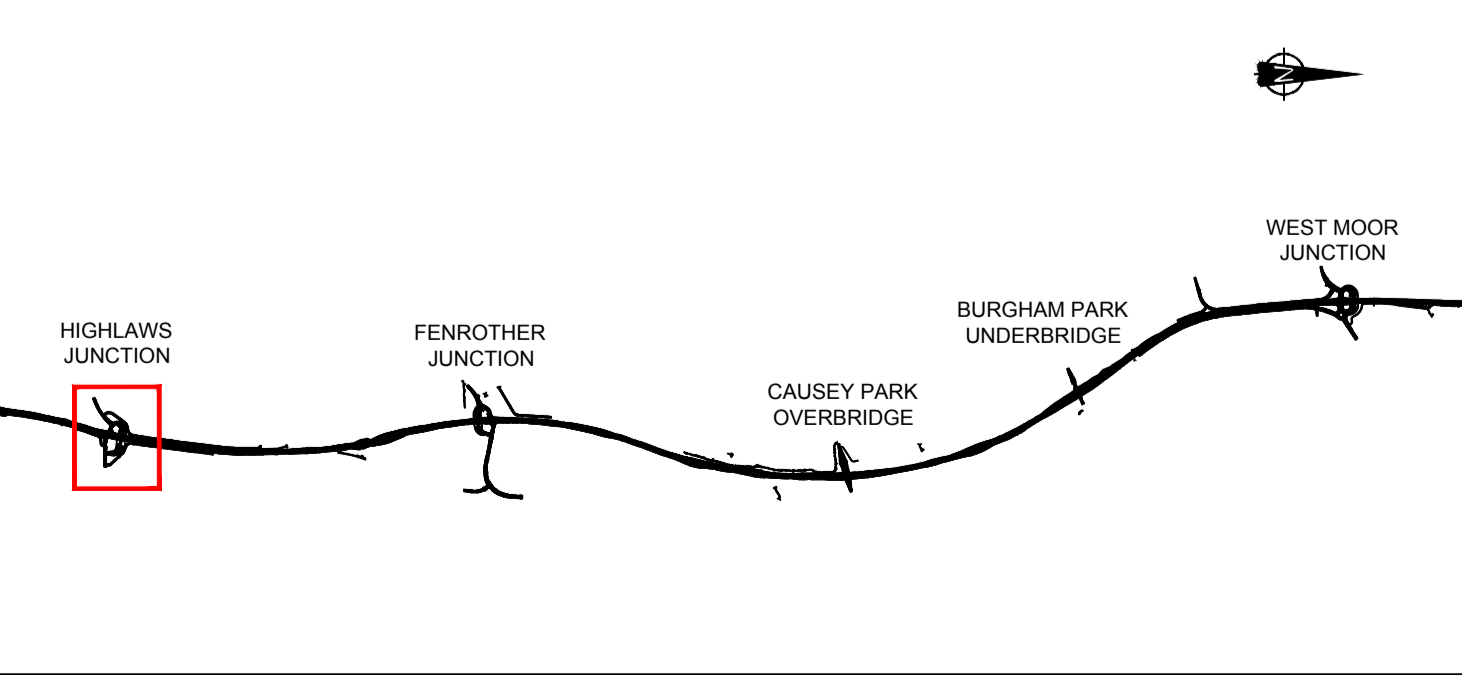


SECTION B - B CHAINAGE 12200 (APPROX.)
CROSS SECTION AT PROPOSED JUNCTION OVERBRIDGE



NOTES

1. Cross sections show an indicative arrangement.



Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH

Suitability: FOR INFORMATION
Status: S2

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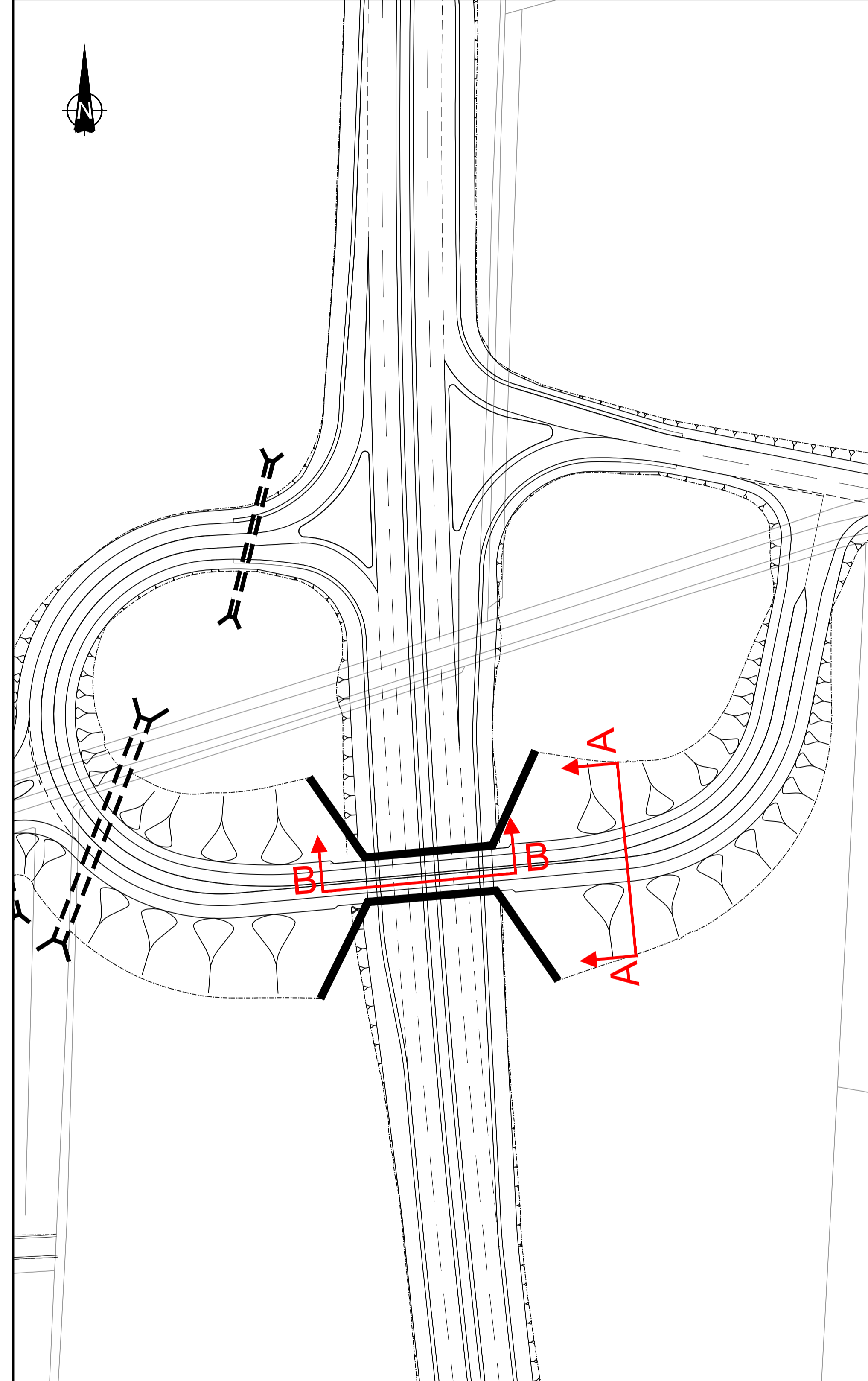
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Client: **highways england**

Project Title: A1 IN NORTHUMBERLAND MORPETH TO FELTON					
Drawing Title: PINCHPOINT CROSS SECTIONS CH 12200 - HIGHLAWS JUNCTION OVERBRIDGE					
Scale: NTS	Drawn: DDN	Eng. Check: MM	Approved: CH	Authorised: DM	
Original Size: A1	Date: 05/11/18	Date: 05/11/18	Date: 05/11/18	Date: 05/11/18	Date: 05/11/18
Drawing Number: HE551459	Project: WSP	Volume: HGN	Revision: P01		PW Stage Code
Section:	Type:	ID:	Direction: M2F	Type: DR	Role: CH
			Number: 1076		

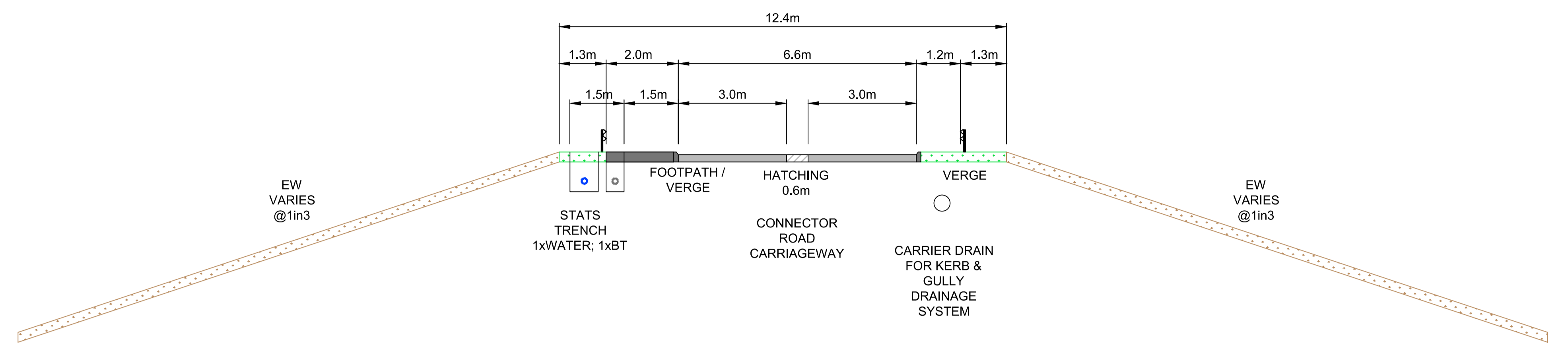
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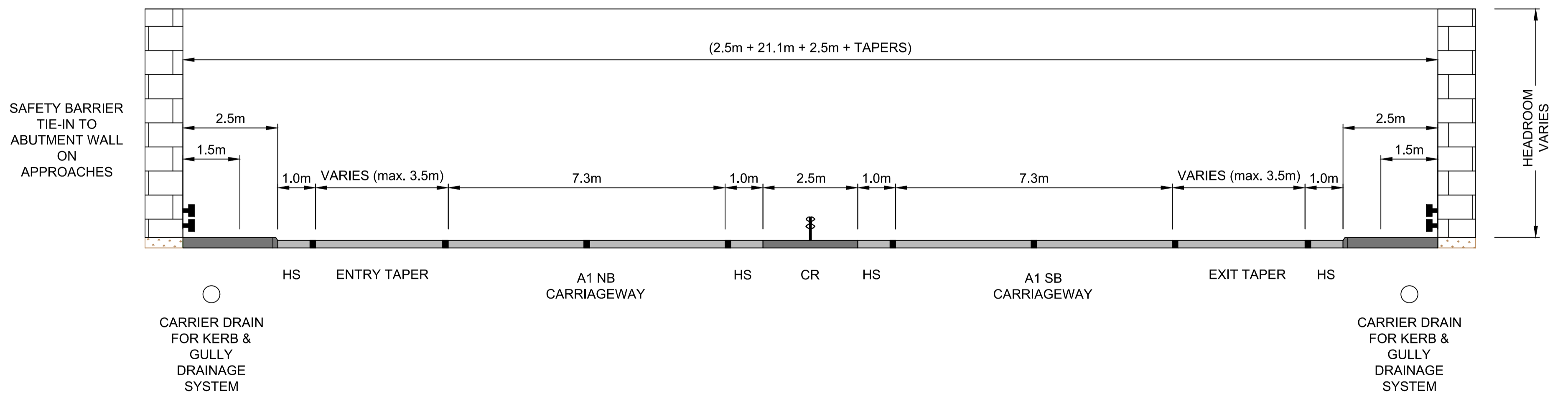
PLAN VIEW



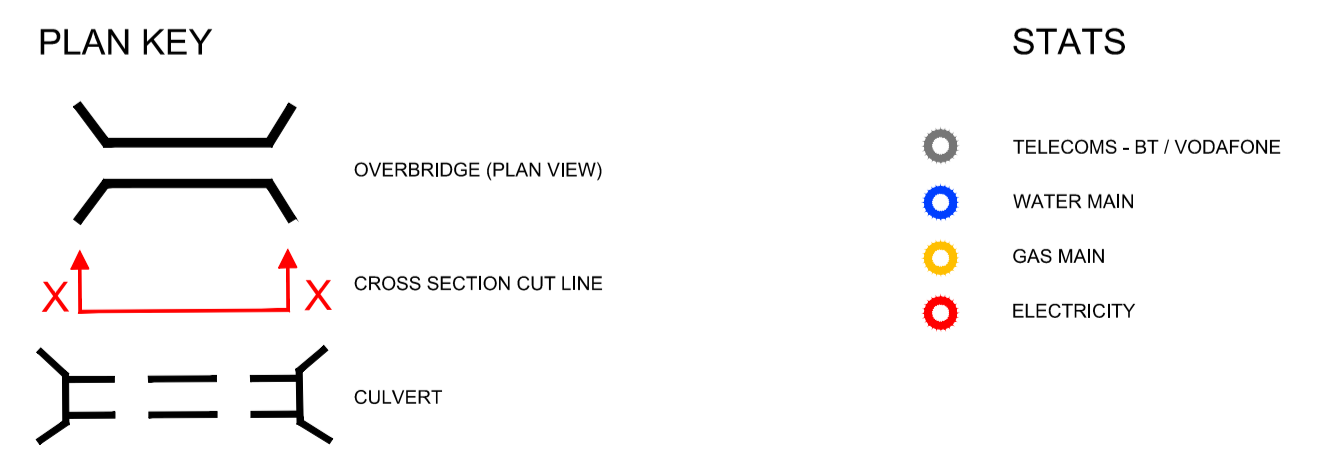
CROSS SECTION CH 14900 - FENROTHER JUNCTION



SECTION A - A CHAINAGE 14900 (APPROX.)
CROSS SECTION AT CONNECTOR ROAD APPROACH

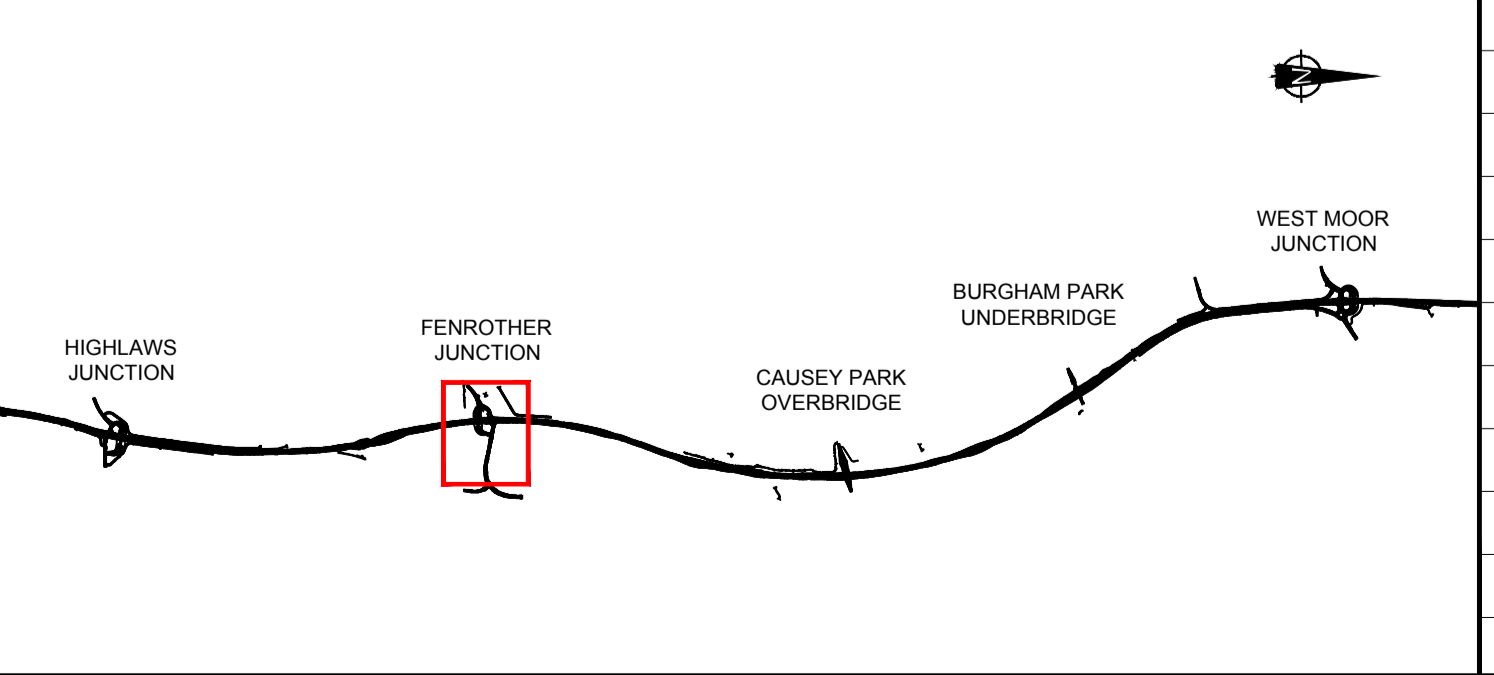


SECTION B - B CHAINAGE 14900 (APPROX.)
CROSS SECTION AT PROPOSED JUNCTION OVERBRIDGE



NOTES

- Cross sections show an indicative arrangement.



Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd	
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH	DM

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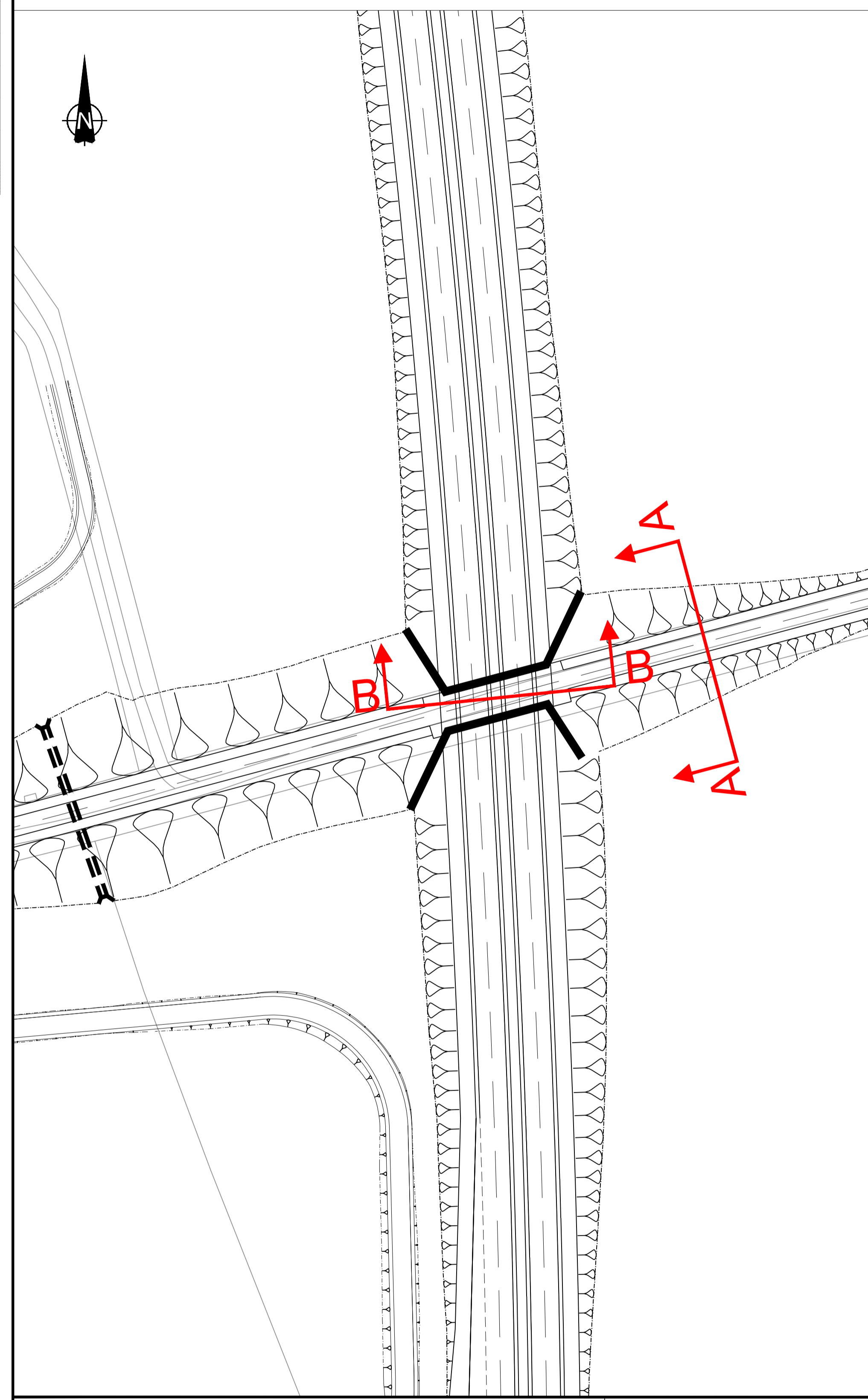
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Drawing Title	PINCHPOINT CROSS SECTIONS CH 14900 - FENROTHER JUNCTION OVERBRIDGE								
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Original Size	A1	Date	05/11/18	Date	05/11/18	Date	05/11/18	Date	05/11/18
Drawing Number	HE551459		Originator	WSP	Volume	HGN		P01	
Project			M2F	DR	CH	1077		PW Stage Code	
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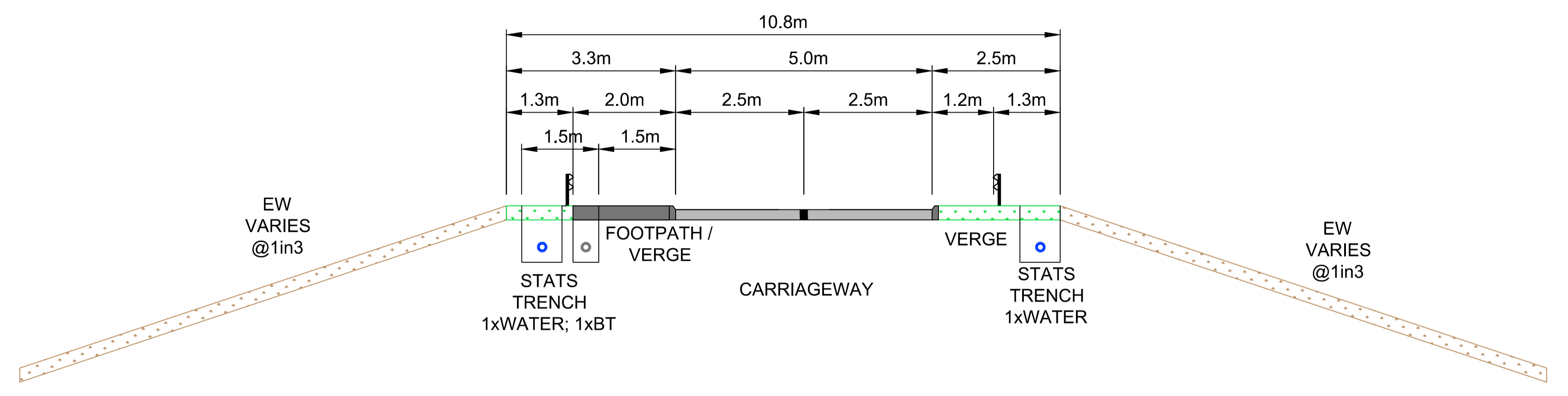
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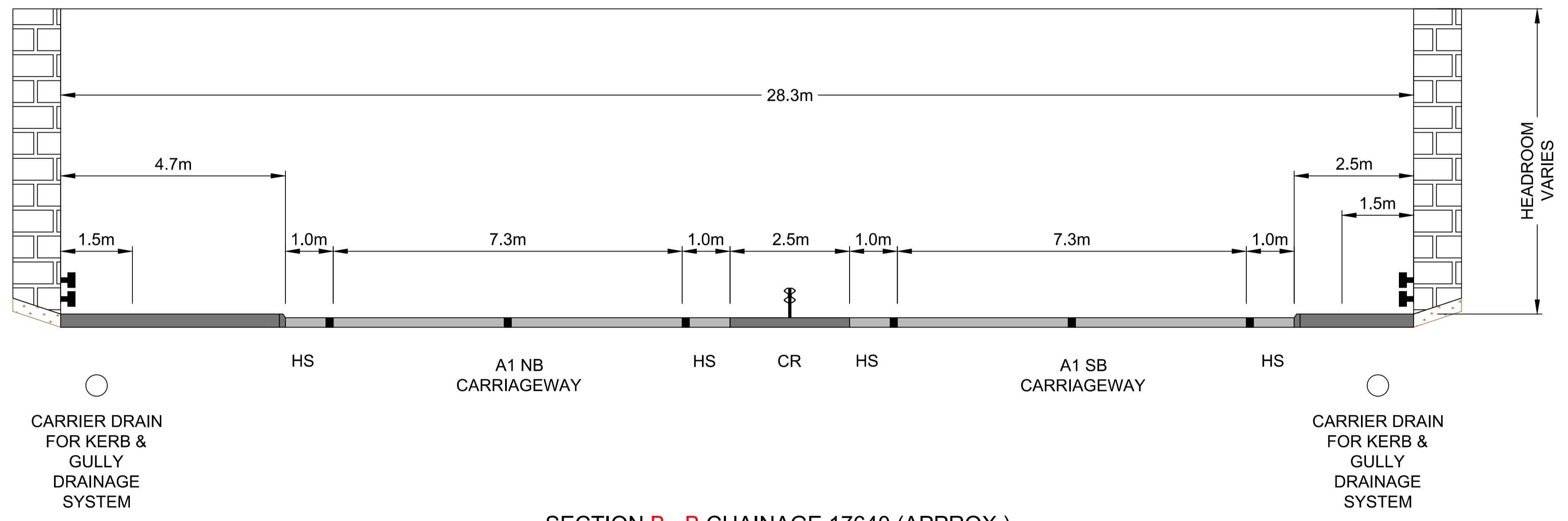
PLAN VIEW



CROSS SECTION CH 17640 - CAUSEY PARK OVERBRIDGE



SECTION A - A CHAINAGE 17640 (APPROX.)
CROSS SECTION AT OVERBRIDGE APPROACH



SECTION B - B CHAINAGE 17640 (APPROX.)
CROSS SECTION AT PROPOSED OVERBRIDGE

PLAN KEY

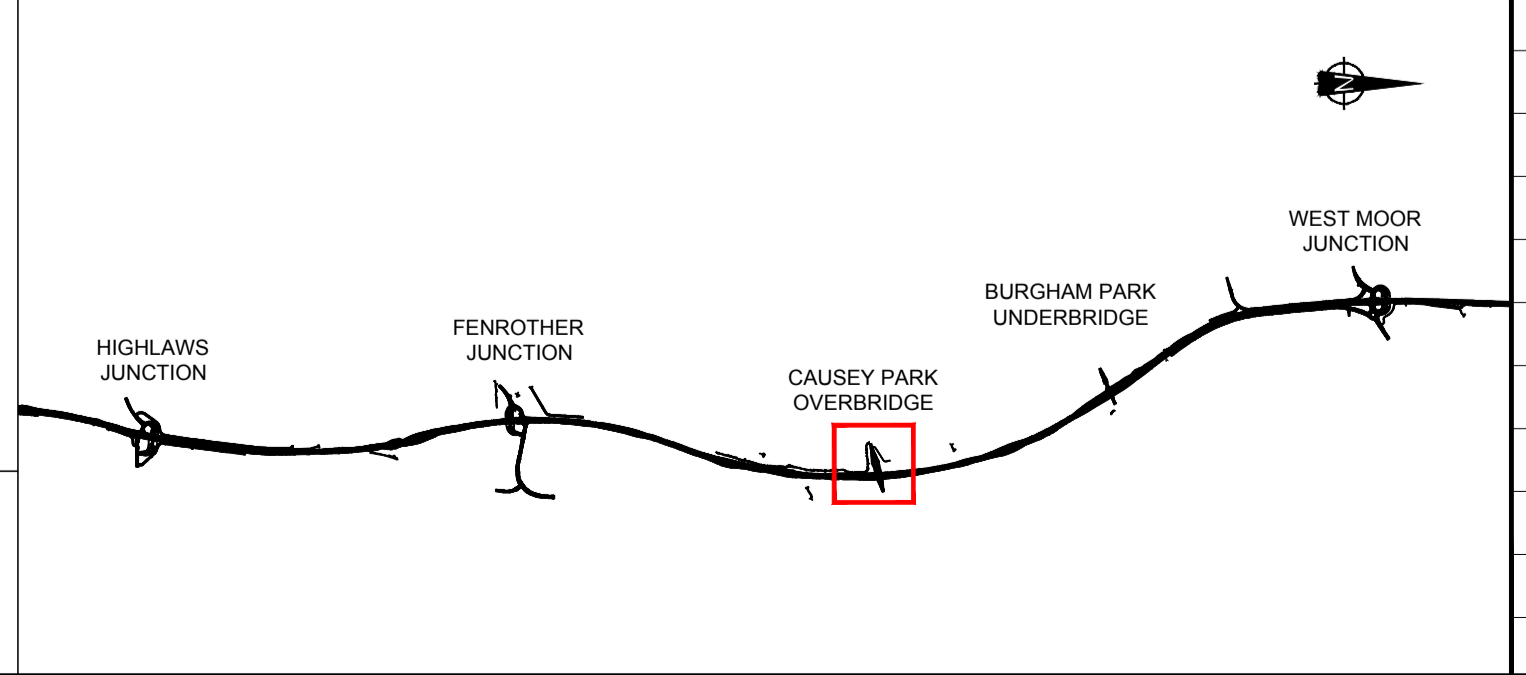
- OVERBRIDGE (PLAN VIEW)
- CROSS SECTION CUT LINE
- CULVERT

STATS

- TELECOMS - BT / VODAFONE
- WATER MAIN
- GAS MAIN
- ELECTRICITY

NOTES

- Cross sections show an indicative arrangement.



Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH DM

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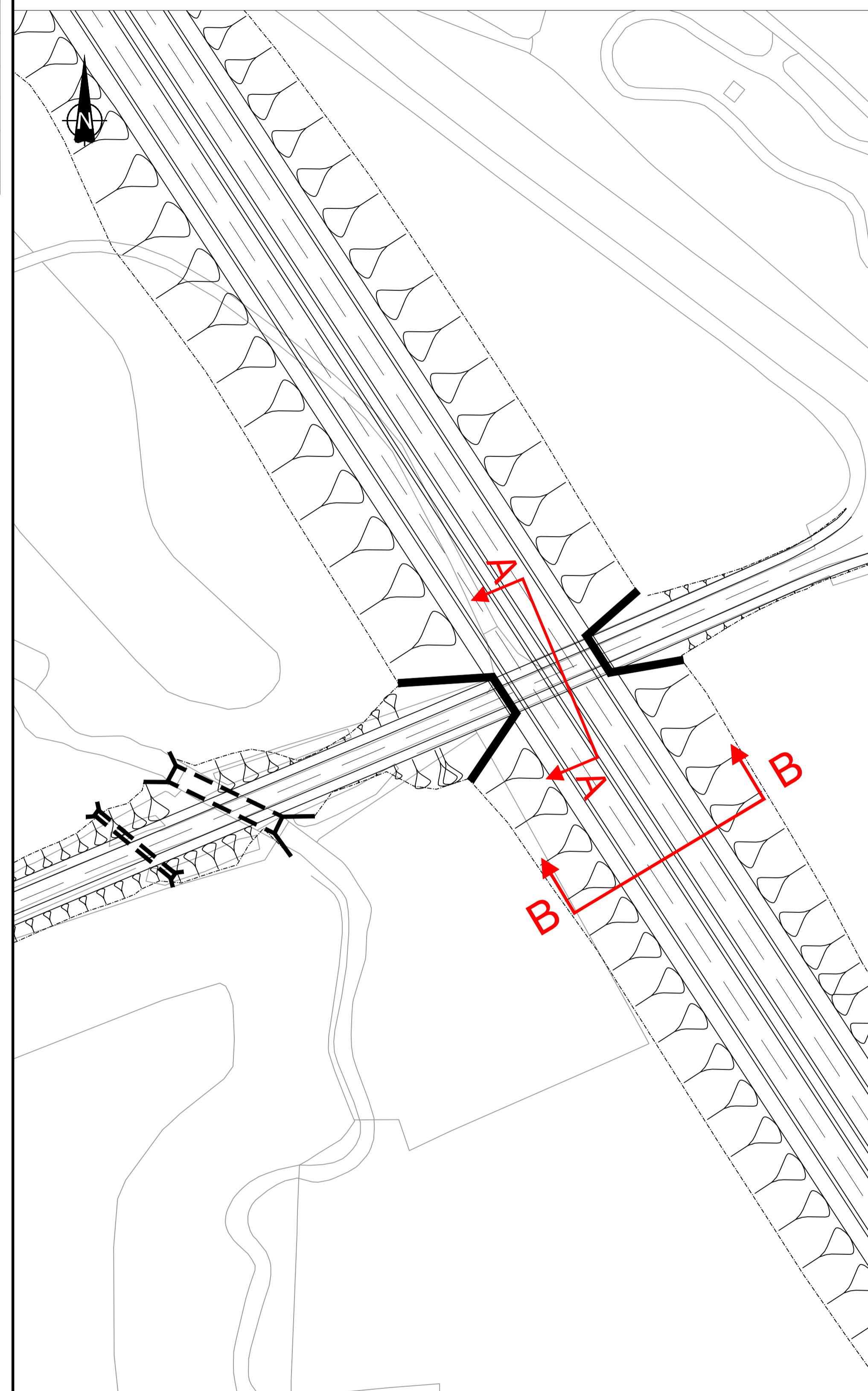
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Project Title		A1 IN NORTHUMBERLAND MORPETH TO FELTON			
Drawing Title		PINCHPOINT CROSS SECTIONS CH 17640 - CAUSEY PARK OVERBRIDGE			
Scale	Drawn	Eng. Check	Approved	Authorised	
NTS	DDN	MM	CH	DM	
Original Size	Date	Date	Date	Date	
A1	05/11/18	05/11/18	05/11/18	05/11/18	
Drawing Number	Project	Originator	Volume	Revision	
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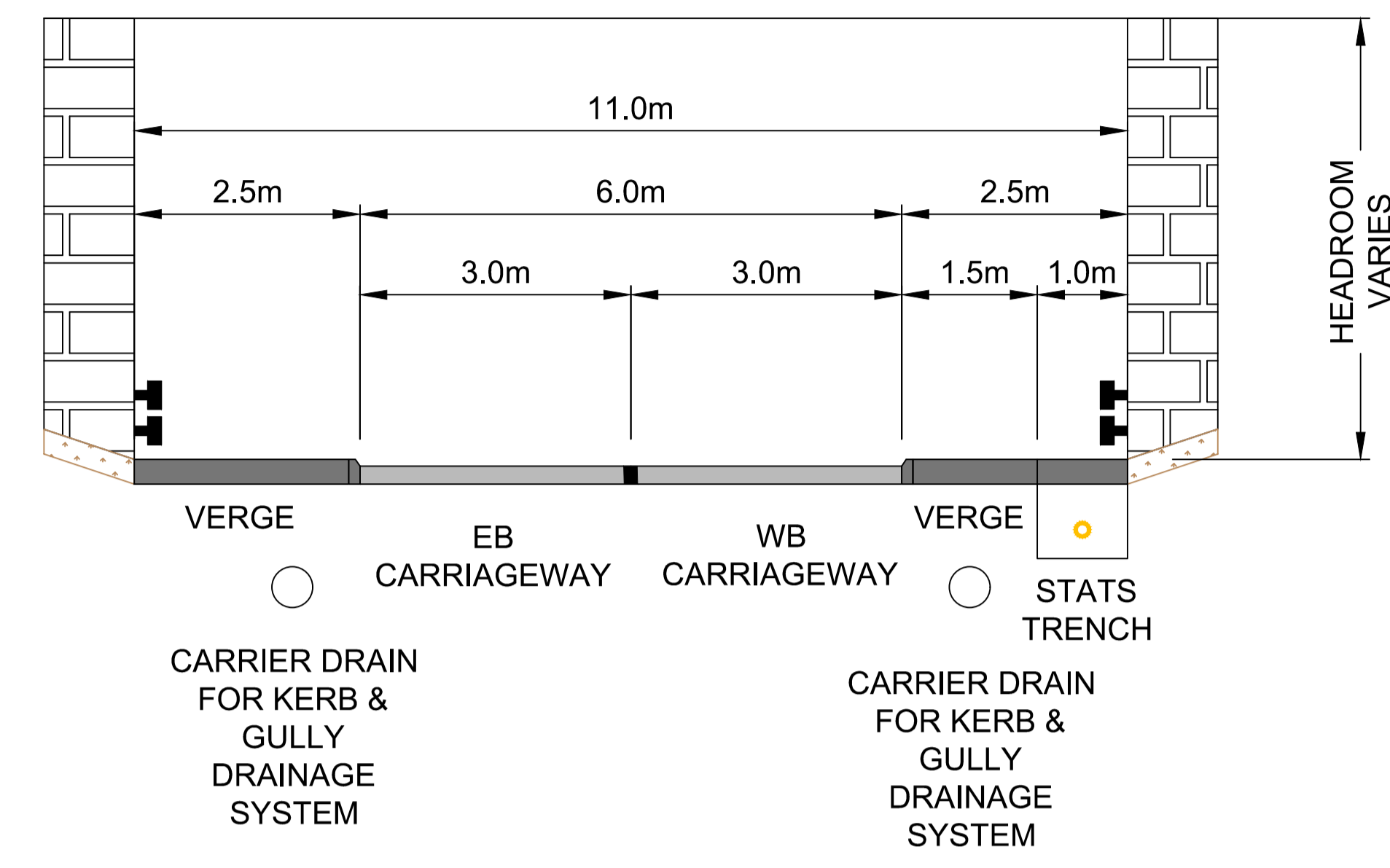
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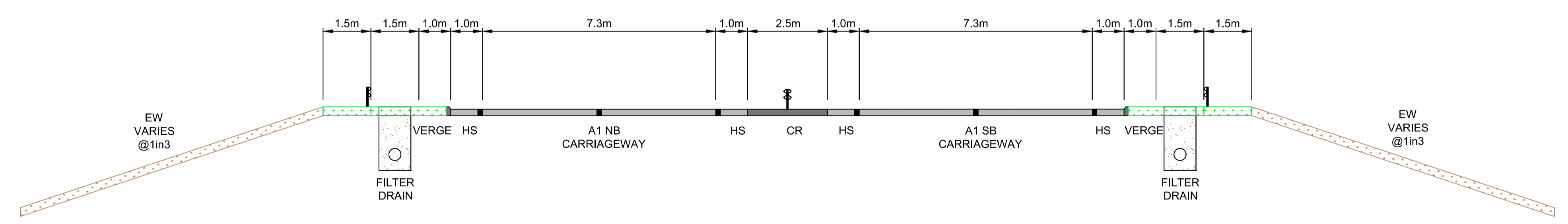
PLAN VIEW



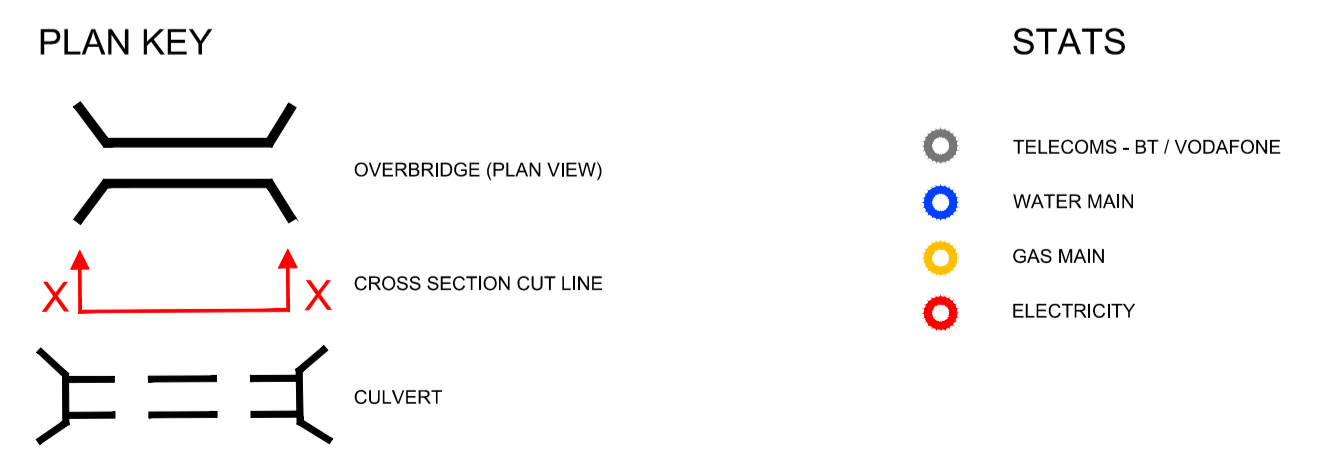
CROSS SECTION CH 19500 - BURGHAM PARK UNDERBRIDGE



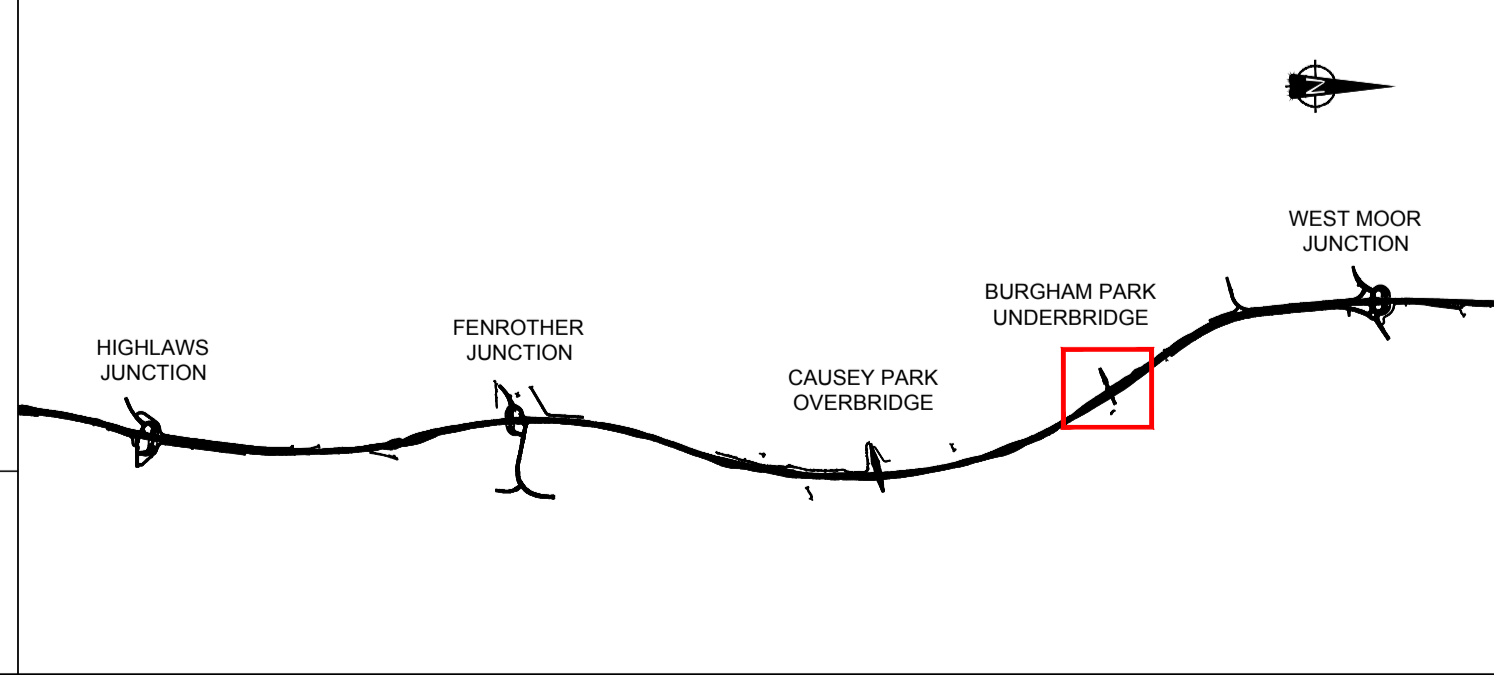
SECTION A - A CHAINAGE 19500 (APPROX.)
CROSS SECTION AT UNDERBRIDGE



SECTION B - B CHAINAGE 19500 (APPROX.)
CROSS SECTION OF A1 MAINLINE ON THE BURGHAM UNDERBRIDGE APPROACH



NOTES
1. Cross sections show an indicative arrangement.



Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO		DDN	MM	CH DM

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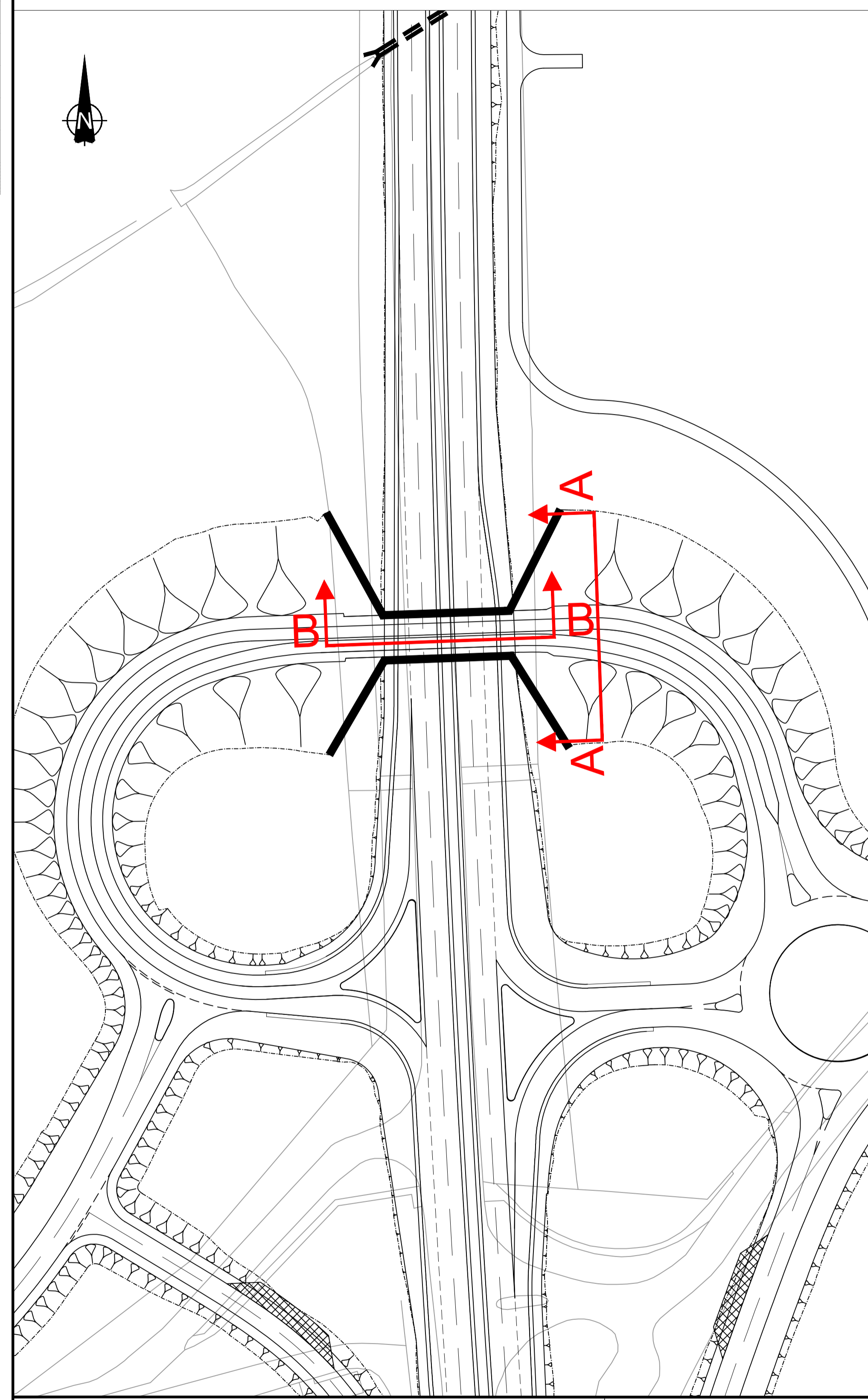
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Project Title	A1 IN NORTHUMBERLAND MORPETH TO FELTON				
Drawing Title	PINCHPOINT CROSS SECTIONS CH 19500 - BURGHAM PARK UNDERBRIDGE				
Scale	Drawn	Eng. Check	Approved	Authorised	
NTS	DDN	MM	CH	DM	
Original Size	Date	Date	Date	Date	
A1	05/11/18	05/11/18	05/11/18	05/11/18	
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Section	Type	ID	Direction	Type	Role
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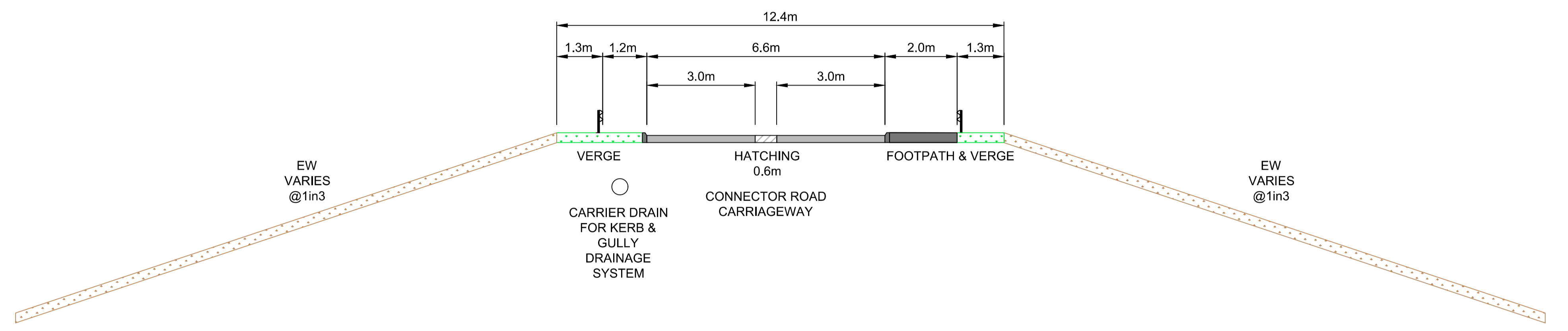
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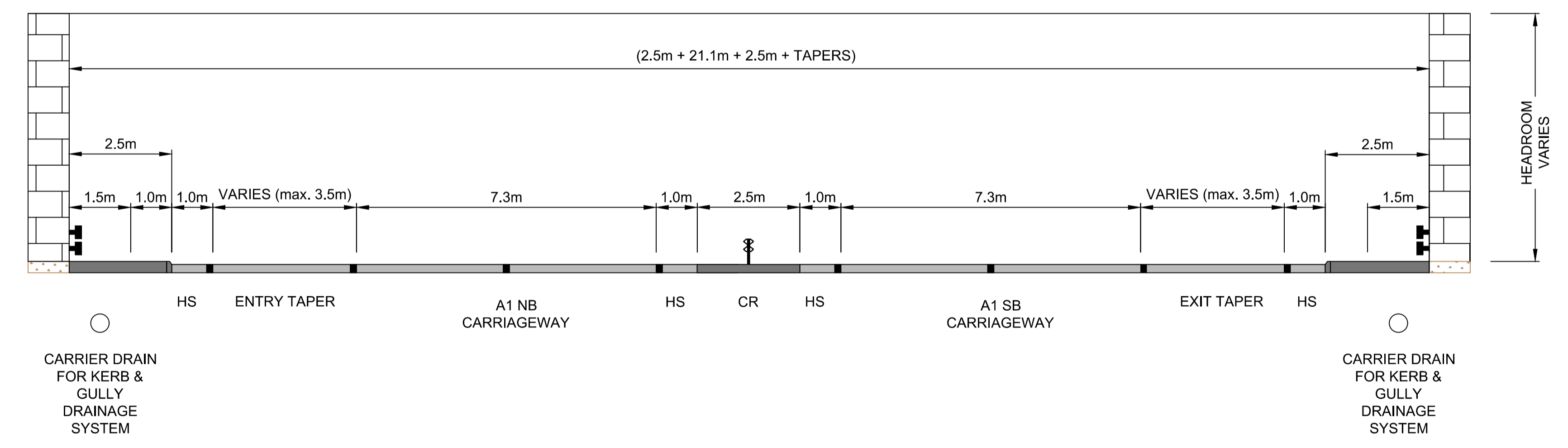
PLAN VIEW



CROSS SECTION CH 21700 - WEST MOOR JUNCTION OVERBRIDGE



SECTION A - A CHAINAGE 21700 (APPROX.)
CROSS SECTION AT CONNECTOR ROAD APPROACH



SECTION B - B CHAINAGE 21700 (APPROX.)
CROSS SECTION AT PROPOSED JUNCTION OVERBRIDGE

PLAN KEY

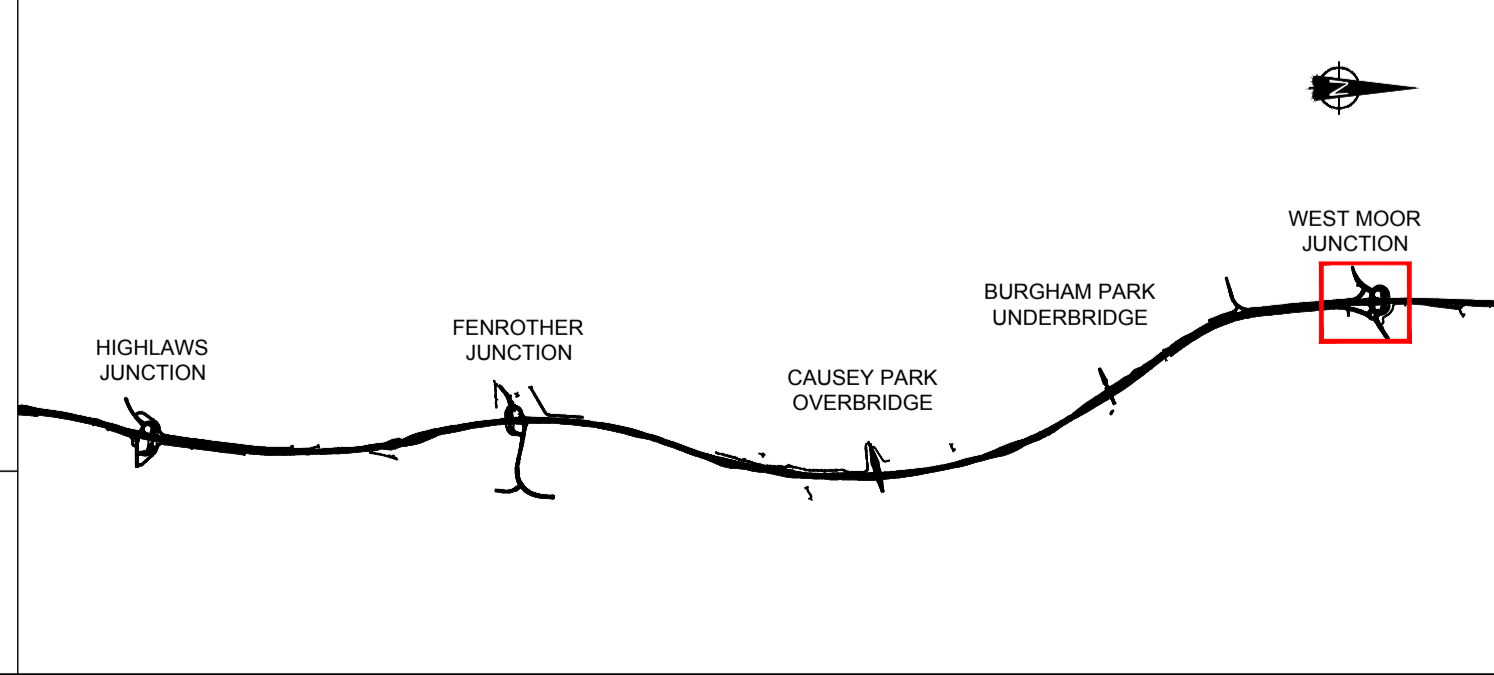
- OVERBRIDGE (PLAN VIEW)
- CROSS SECTION CUT LINE
- CULVERT

STATS

- TELECOMS - BT / VODAFONE
- WATER MAIN
- GAS MAIN
- ELECTRICITY

NOTES

- Cross sections show an indicative arrangement.



Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	05/11/18	DESIGN FIX 3 FOR DCO	DDN	MM	CH	DM

FOR INFORMATION

wsp

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**highways
england**

Project Title	A1 IN NORTHUMBERLAND MORPETH TO FELTON				
Drawing Title	PINCHPOINT CROSS SECTIONS CH21700 - WEST MOOR JUNCTION OVERBRIDGE				
Scale	NTS	Drawn	DDN	Eng. Check	MM
Original Size	A1	Date	05/11/18	Date	05/11/18
Approved	CH	Date	05/11/18	Authorised	DM
Drawing Number	HE551459	Project	WSP	Volume	HGN
Revision	P01	Project	M2F	DR	CH
PW Stage Code	1080	Section	DR	Type	Role

Technical Drawings

A1 in Northumberland: Morpeth to Ellingham

Part B: Alnwick to Ellingham

DO NOT SCALE

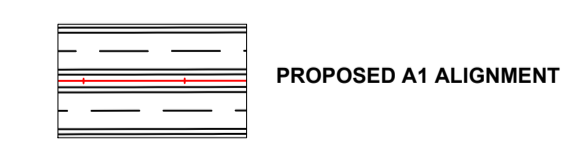
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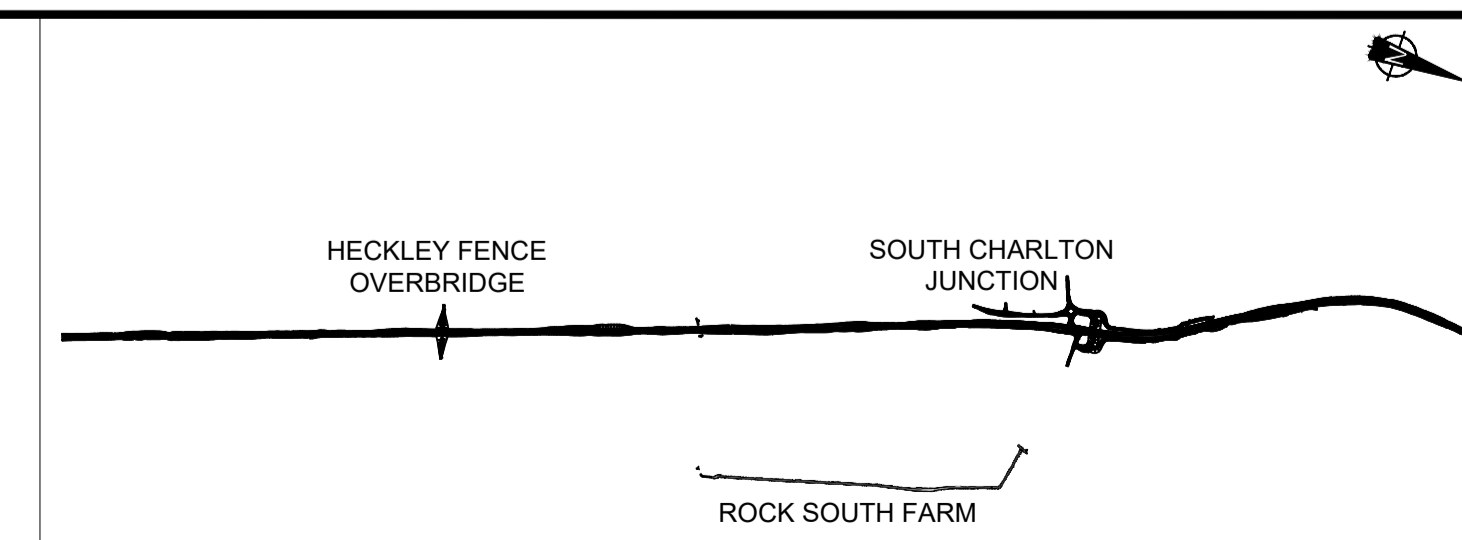
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PLAN KEY



PROPOSED A1 ALIGNMENT



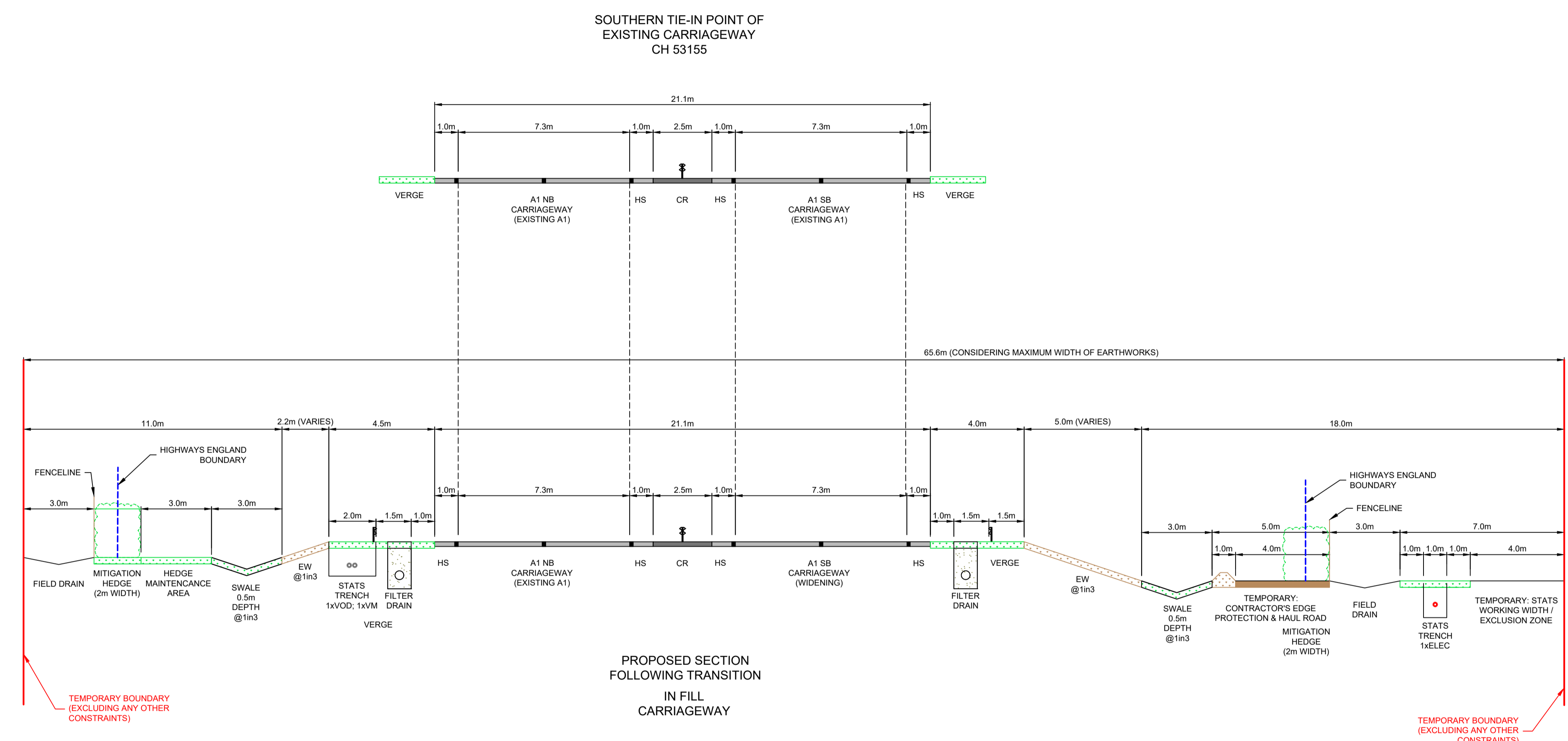
Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	13/02/20	First Revision	NH	TO	MM	DM

Sustainability		Status		Project Title			
Work In Progress		S0		A1 in Northumberland Morpeth to Ellingham Improvement Scheme			
<p>8 First Street Manchester M15 4RP, UK T+ 44 (0) 161 200 5000 wsp.com</p>				Drawing Title Alnwick to Ellingham Indicative Cross Sections Plan Overview			
Scale	Drawn	Eng. Check	Approved	Authorised			
NTS	NH	TO	MM	DM			
Original Size	Date	Date	Date	Date			
A1	13/02/20	13/02/20	13/02/20	13/02/20			
Drawing Number	Originator		Volume		Revision		
HE PIN	WSP		HGN		P01		
A2E	DR		CH		00039		
Section	Type	ID	Direction	Type	Role	Number	
						3	

Confidential

DO NOT SCALE

ONLINE SECTION CH 53155 - 53230



STATS

- BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

ENVIRONMENTAL MITIGATION AREA NOT CURRENTLY SHOWN IN THE SECTION

NOTES - Assumptions:

Area 14 requirements

- 2m clearance at the back of any earthwork slopes for grass cutting (not including swales).
- 1m clearance to fixed assets (lighting column, VRS, sign posts, etc - not including swales).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline.
- Where the carriageway is in cutting and superelevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

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- Northern Powergrid 66kV cable must be at least 6m from hedgerows containing large conifers and deciduous forest trees.

Contractor

- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

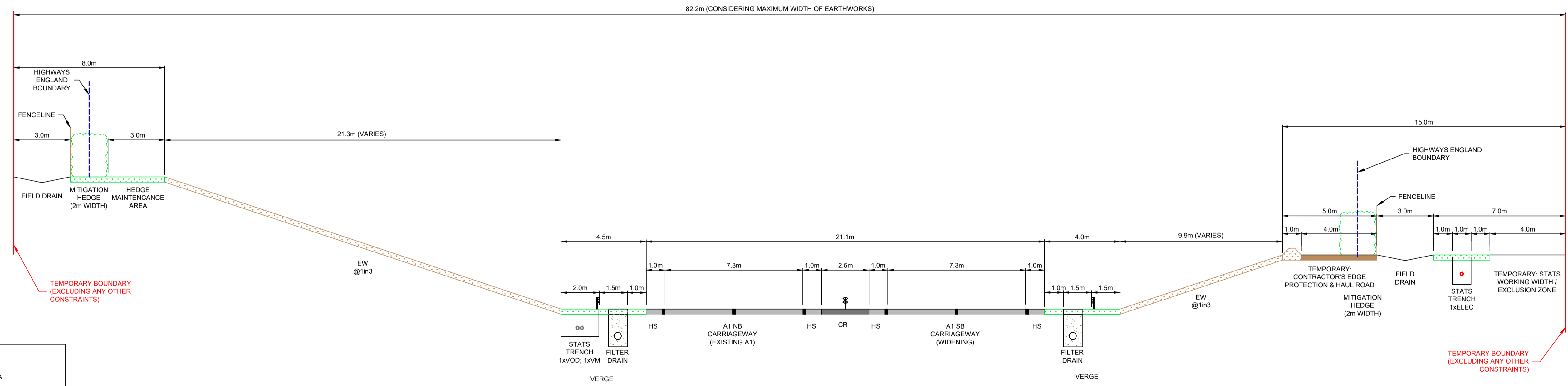
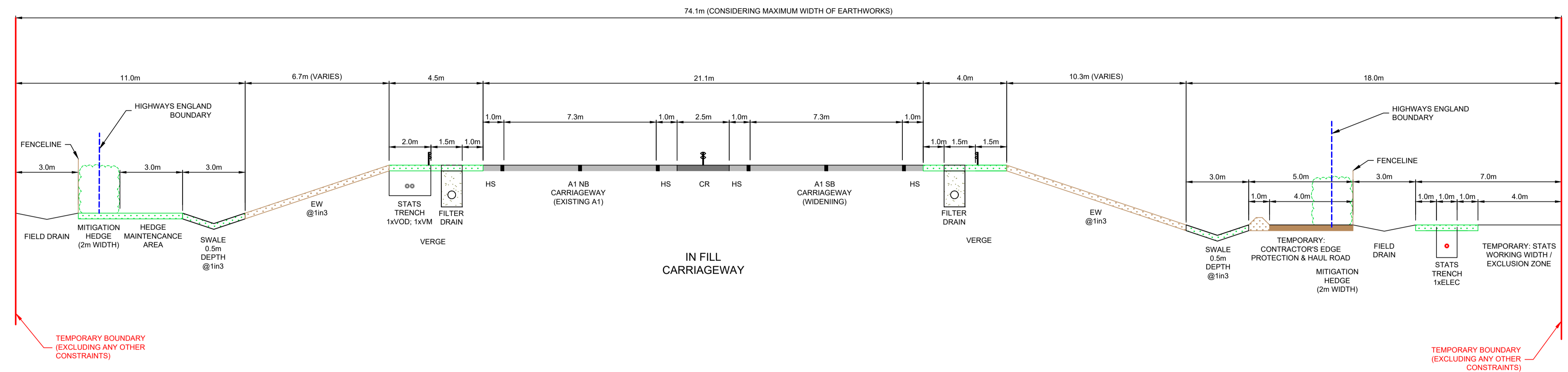
Rev.	Date	Description	By	Eng' Crk	Dis' Crk	App'd
P01	13/02/20	First Revision		NH	TO	MM

Sustainability		Status		Project Title	
For Information		S2		A1 in Northumberland Alnwick to Ellingham Scheme	
 8 First Street Manchester M15 4RP T+44 1612 005 000 wsp.com				Drawing Title Indicative Cross Section Section 1	
Scale	Drawn	Eng. Check	Approved	Authorised	
NTS	NH	TO	MM	DM	
Original Size	Date	Date	Date	Date	
A1	13/02/20	13/02/20	13/02/20	13/02/20	
Drawing Number	Originator		Volume		Revision
HE PIN	WSP		HGN		P01
HE551459					
A2E	Section	DR	CH	00040	PW Stage Code
	Type	ID	Type	Number	3

DO NOT SCALE

ONLINE SECTION

CH 53230 - 53810
 CH 54130 - 54980
 CH 55300 - 56945
 CH 57265 - 57470
 CH 57790 - 58255



- STATS**
- BT / VODAFONE / VIRGIN MEDIA
 - WATER MAIN
 - GAS MAIN
 - ELECTRICITY

ENVIRONMENTAL MITIGATION AREA NOT CURRENTLY SHOWN IN THE SECTION

NOTES - Assumptions:

Area 14 requirements

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- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

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- Northern Powergrid 66kV cable must be at least 6m from hedgerows containing large conifers and deciduous forest trees.

Contractor

- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

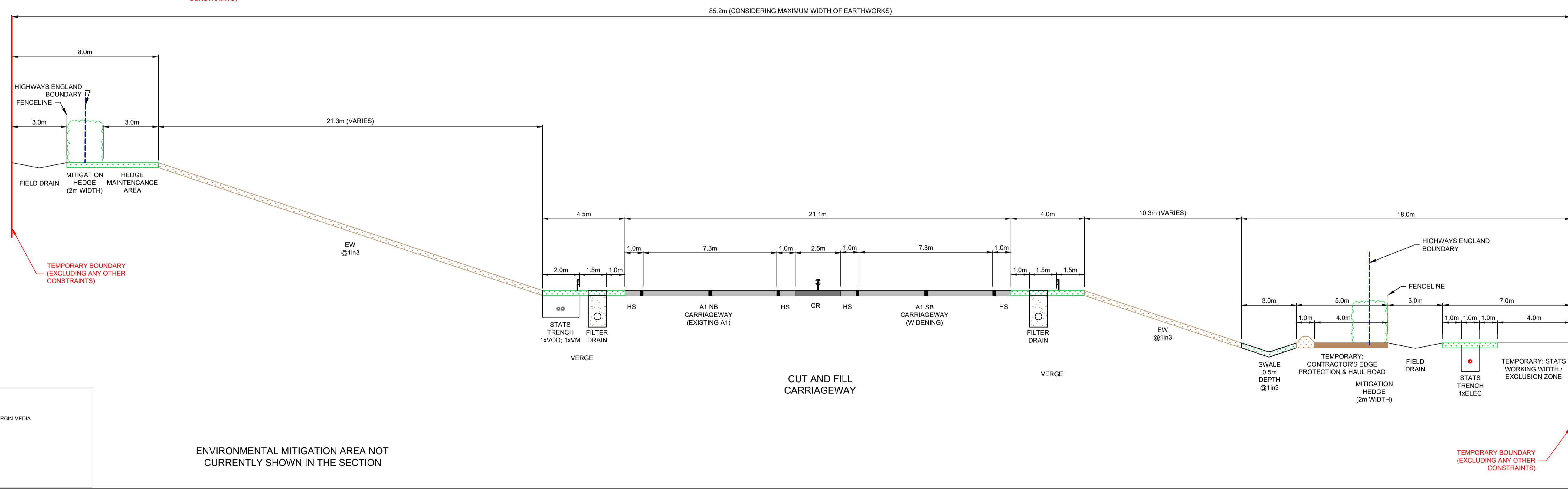
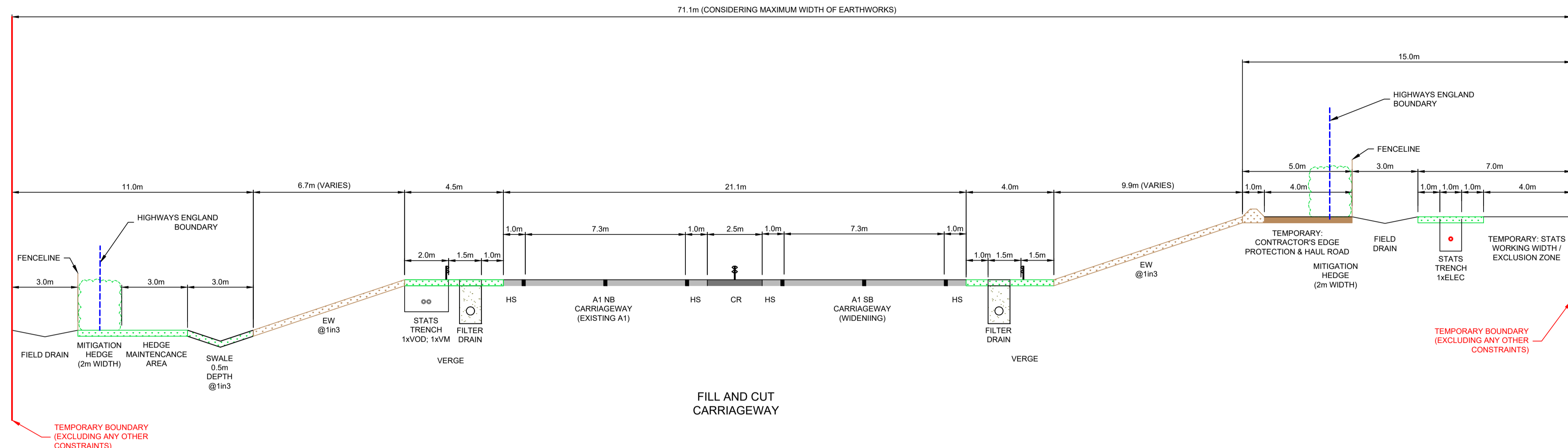
Rev.	Date	Description	By	Eng' Crk	Dis' Crk	App'd
P01	13/02/20	First Revision		NH	TO	MM DM

Sustainability		Status		Project Title			
For Information		S2		A1 in Northumberland Alnwick to Ellingham Scheme			
<p>8 First Street Manchester M15 4RP</p> <p>T+44 1612 005 000 wsp.com</p>				Drawing Title			
				Indicative Cross Section Section 2 (Sheet 1 of 2)			
Client		Drawing Number		Scale		Revision	
HE PIN		HE551459		NTS		P01	
A2E		WSP		NH		PW Stage Code	
Section		DR		CH		00041	
Type		ID		Type		Role	

DO NOT SCALE

ONLINE SECTION

- CH 53230 - 53810
- CH 54130 - 54980
- CH 55300 - 56945
- CH 57265 - 57485
- CH 57790 - 58255



STATS

- BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

ENVIRONMENTAL MITIGATION AREA NOT CURRENTLY SHOWN IN THE SECTION

- NOTES - Assumptions:**
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 - 1m clearance to fixed assets (lighting column, VRS, sign posts, etc - not including swales).
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- Drainage requirements**
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- Contractor**
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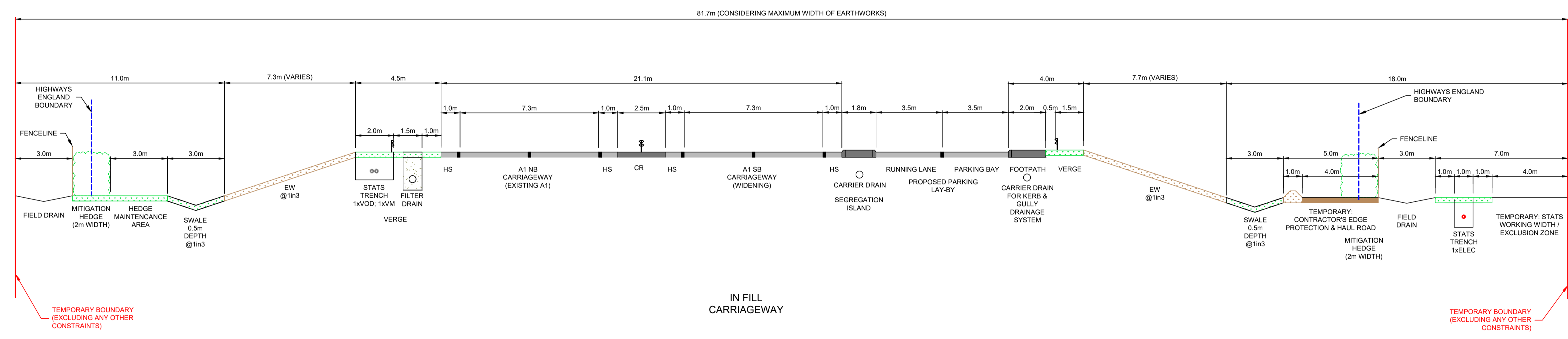
Rev.	Date	Description	By	Eng' Crk	Dis' Crk	App'd
P01	13/02/20	First Revision		NH	TO	MM

Suitability	Status	Project Title
For Information	S2	A1 in Northumberland Alnwick to Ellingham Scheme
<p>8 First Street Manchester M15 4RP</p> <p>T+44 1612 005 000 wsp.com</p>		Drawing Title Indicative Cross Section Section 2 (Sheet 2 of 2)
Client		
Drawing Number HE PIN HE551459 A2E Section	Originator WSP DR Type	Volume HGN CH Role 00042 Number
Date 13/02/20	Date 13/02/20	Date 13/02/20
Revision P01 PW Stage Code 3		

DO NOT SCALE

ONLINE SECTION

CH 53810 - 54130
CH 56945 - 57265



STATS

- BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

ENVIRONMENTAL MITIGATION AREA NOT CURRENTLY SHOWN IN THE SECTION

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Rev.	Date	Description	By	Eng' Chk	Dis' Chk	App'd
P01	13/02/20	First Revision				

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Client: **highways england**

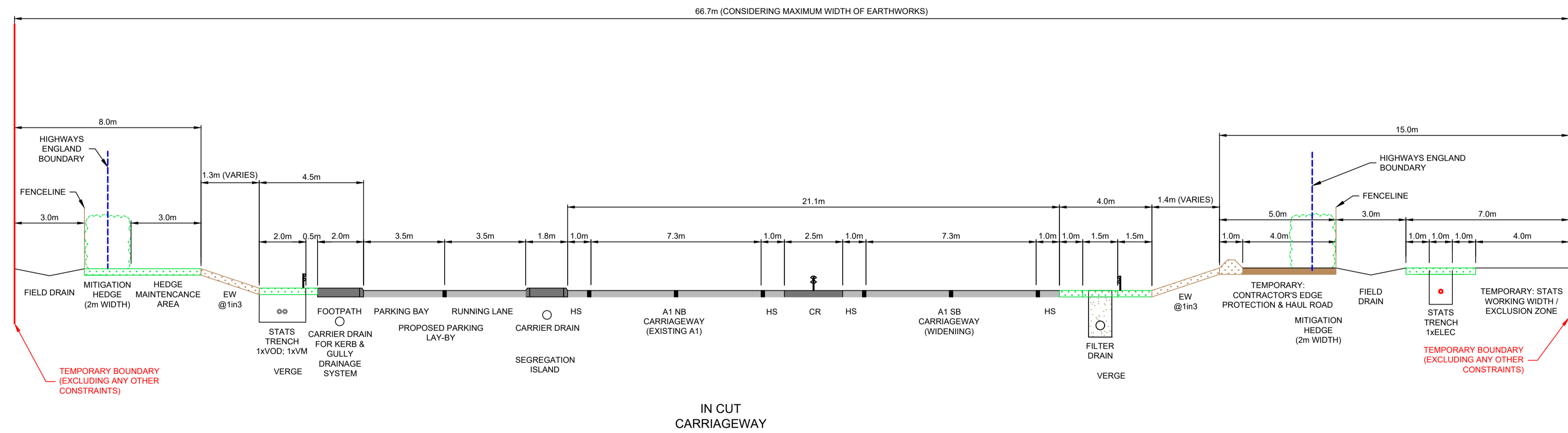
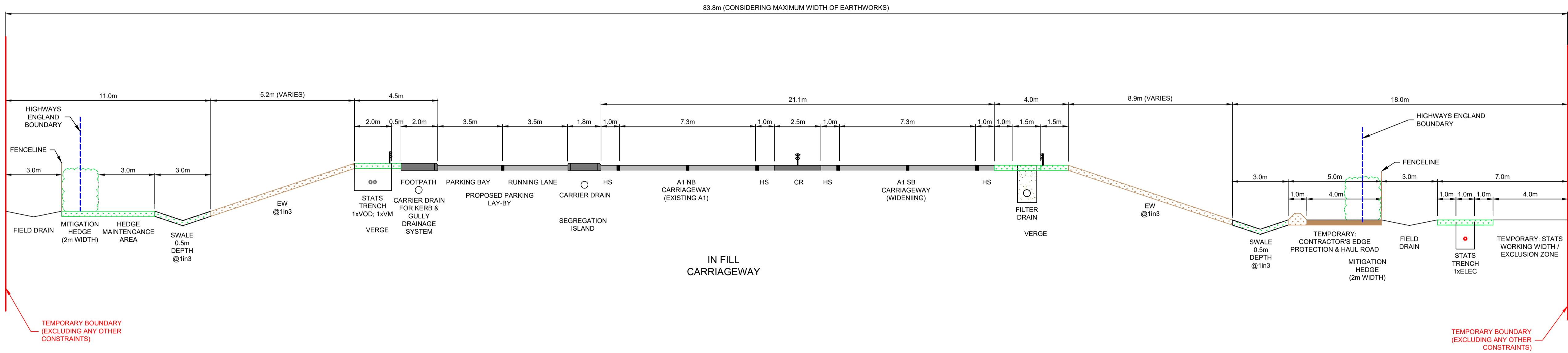
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For Information	S2	A1 in Northumberland Alnwick to Ellingham Scheme
Drawing Title		
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NTS	NH	TO
Original Size	Date	Date
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Date	Date	
13/02/20	13/02/20	
Drawing Number	Originator	Volume
HE PIN	WSP	HGN
HE551459		
Section	DR	CH
A2E	00043	00043
Type	ID	Number
Revision	Revision	
P01	P01	
IPW Stage Code	IPW Stage Code	
3	3	

ONLINE SECTION

CH 54980 - 55300
CH 57485 - 57790

DO NOT SCALE

Millimetres



STATS

- BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

ENVIRONMENTAL MITIGATION AREA NOT CURRENTLY SHOWN IN THE SECTION

- NOTES - Assumptions:**
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 - Safety Barrier
 - Where required, verge safety barrier assumed at back of filter drain.
 - Maximum working width assumed W4 (<1.3m), unless stated otherwise.
 - Drainage requirements
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Rev.	Date	Description	By	Eng' Chk	Dis' Chk	App'd
P01	13/02/20	First Revision				

Sustainability		Status		Project Title	
For Information		S2		A1 in Northumberland Alnwick to Ellingham Scheme	
8 First Street Manchester M15 4RP T+44 1612 005 000 wsp.com				Drawing Title	
				Indicative Cross Section Section 4 (Sheet 1 of 2)	
Scale	Drawn	Eng. Check	Approved	Authorised	
NTS	NH	TO	MM	DM	
Original Size	Date	Date	Date	Date	
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Drawing Number		Originator		Revision	
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Section	Type	ID	Direction	Type	Role

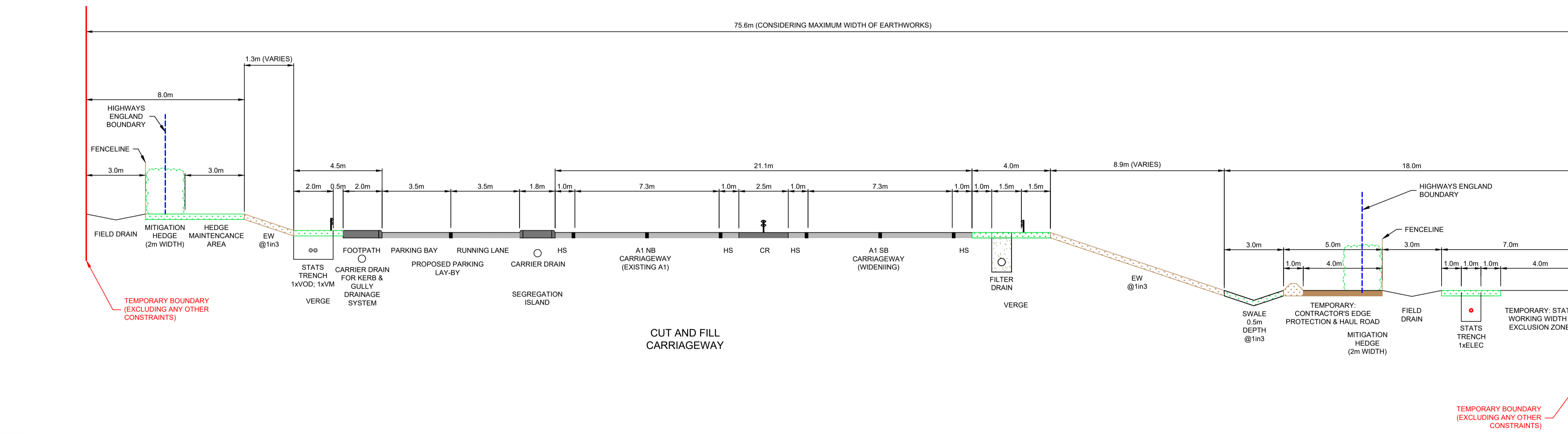
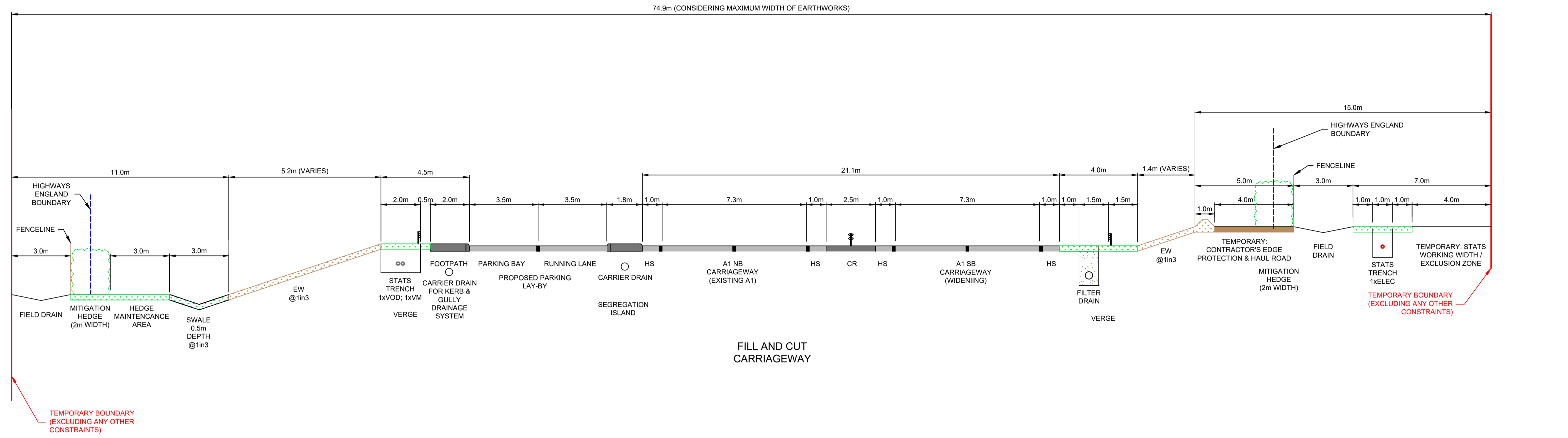
ONLINE SECTION

CH 54980 - 55300

CH 57485 - 57790

DO NOT SCALE

Millimetres



STATS

- BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

ENVIRONMENTAL MITIGATION AREA NOT CURRENTLY SHOWN IN THE SECTION

NOTES - Assumptions:

Area 14 requirements

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- 1m clearance to fixed assets (lighting column, VRS, sign posts, etc - not including swales).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

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- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

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Contractor

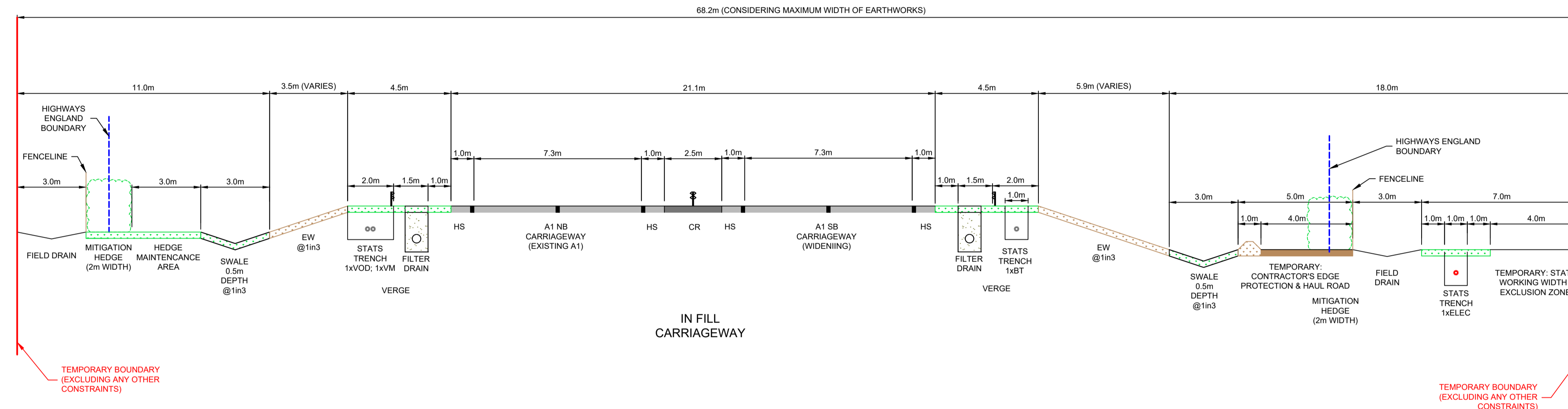
- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Rev.	Date	Description	By	Eng' Crk	Dis' Crk	App'd
P01	13/02/20	First Revision		NH	TO	MM

Sustainability		Status		Project Title									
For Information		S2		A1 in Northumberland Alnwick to Ellingham Scheme									
<p>8 First Street Manchester M15 4RP</p> <p>T+44 1612 005 000 wsp.com</p>		Drawing Title		Indicative Cross Section Section 4 (Sheet 2 of 2)									
				Scale		Drawn		Eng. Check		Approved		Authorised	
Client		Date		Date		Date		Date		Date		Date	
HE PIN		Date		Date		Date		Date		Date		Date	
HE551459		13/02/20		13/02/20		13/02/20		13/02/20		13/02/20		13/02/20	
Drawing Number		Originator		Volume		Revision		Drawing Number		Originator		Volume	
A2E		WSP		HGN		P01		HE551459		WSP		HGN	
Section		Type		ID		Direction		Type		Role		Number	
A2E		DR		CH		00045		PW Stage Code		3		3	

ONLINE SECTION CH 58255 - 58375

DO NOT SCALE



STATS

- BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

ENVIRONMENTAL MITIGATION AREA NOT CURRENTLY SHOWN IN THE SECTION

NOTES - Assumptions:

Area 14 requirements

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Rev.	Date	Description	By	Eng' Chk	Dis' Chk	App'd
P01	13/02/20	First Revision	NH	TO	MM	DM

Suitability: For Information

Status: S2

Client: **highways england**

WSP UK Ltd

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M15 4RP

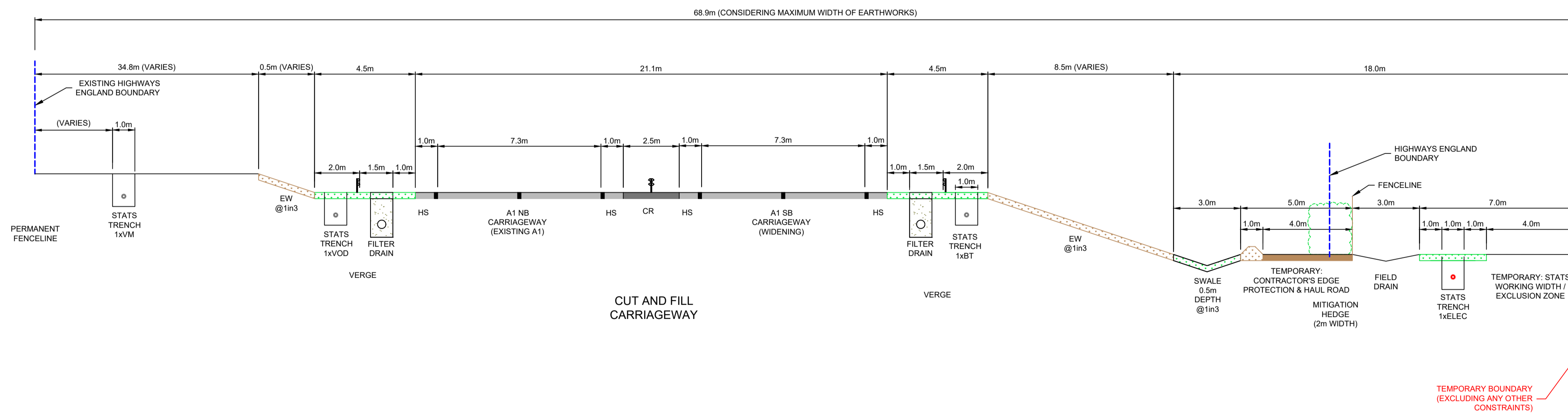
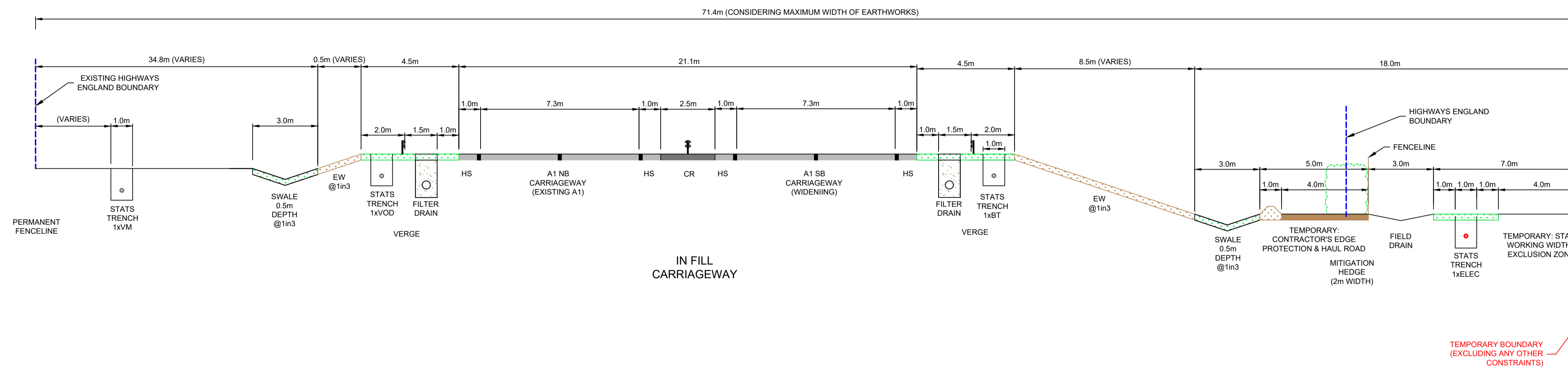
T+44 1612 005 000
wsp.com

Project Title		A1 in Northumberland Alnwick to Ellingham Scheme			
Drawing Title		Indicative Cross Section Section 5			
Scale	Drawn	Eng. Check	Approved	Authorised	
NTS	NH	TO	MM	DM	
Original Size	Date	Date	Date	Date	
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Drawing Number	Originator	Volume	Revision		
HE PIN HE551459	WSP	HGN	P01		
A2E	DR	CH	00046		
Section	Type	ID	Number		
					3

ONLINE SECTION CH 58375 - 58700

DO NOT SCALE

100
0 10
Millimetres



- STATS**
- BT / VODAFONE / VIRGIN MEDIA
 - WATER MAIN
 - GAS MAIN
 - ELECTRICITY

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NOTES - Assumptions:

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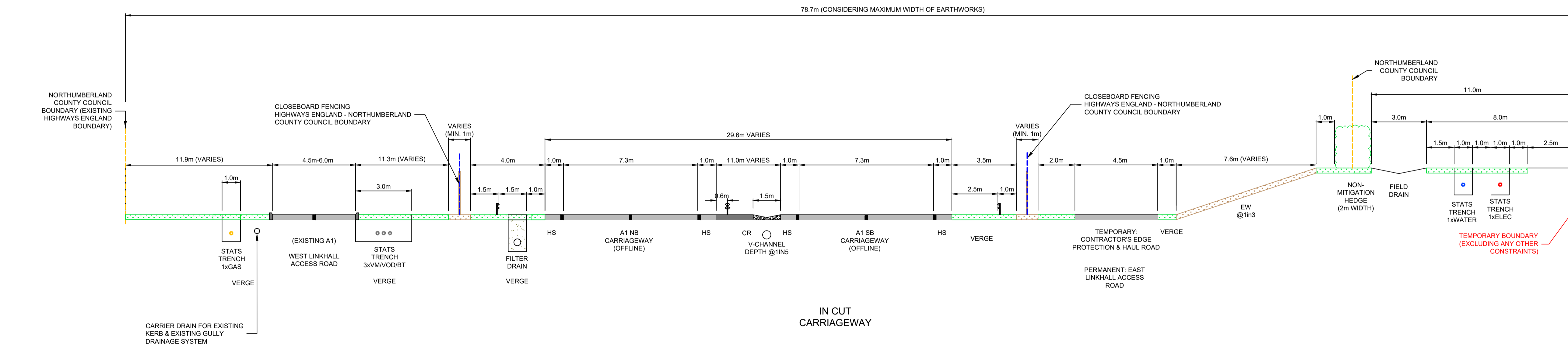
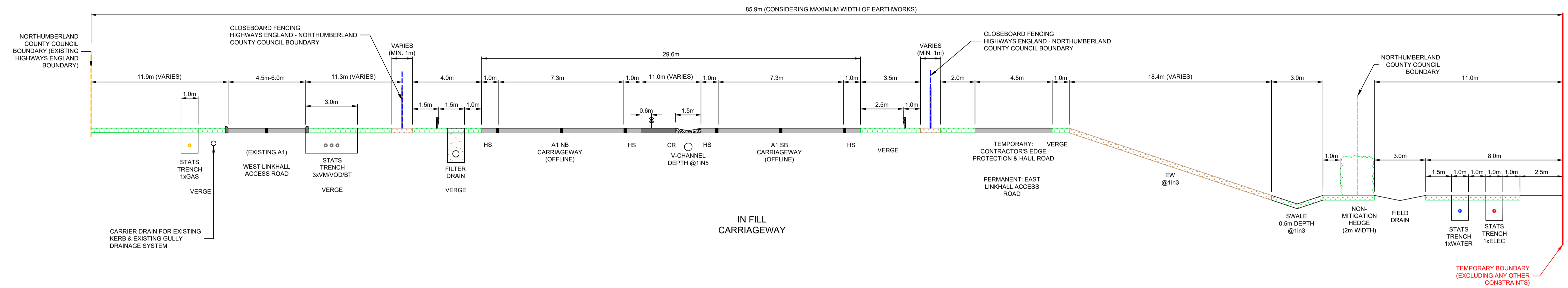
Rev.	Date	Description	By	Eng' Crk	Dis' Crk	App'd
P01	13/02/20	First Revision		NH	TO	MM

Suitability	Status	Project Title
For Information	S2	A1 in Northumberland Alnwick to Ellingham Scheme
<p>8 First Street Manchester M15 4RP</p> <p>T+44 1612 005 000 wsp.com</p>		Drawing Title Indicative Cross Section Section 6
	Drawing Number HE PIN HE551459	Originator WSP Volume HGN Date 13/02/20 Date 13/02/20 Date 13/02/20 Date 13/02/20 Drawing Number HE PIN A2E
Client 	Direction DR Type CH Role 00047 Number Revision P01 PW Stage Code 3	Scale Original Size A1 Date 13/02/20 Date 13/02/20 Date 13/02/20 Date 13/02/20 Scale NTS Drawn NH Eng. Check TO Approved MM Authorised DM

OFFLINE SECTION CH 59020 - 59440

DO NOT SCALE

Millimetres
0 10 100



STATS

- BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

ENVIRONMENTAL MITIGATION AREA NOT CURRENTLY SHOWN IN THE SECTION

NOTES - Assumptions:

Area 14 requirements

- 2m clearance at the back of any earthwork slopes for grass cutting (not including swales).
- 1m clearance to fixed assets (lighting column, VRS, sign posts, etc - not including swales).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline.
- Where the carriageway is in cutting and super-elevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.



Stats requirements

- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.
- Northern Powergrid 66kV cable must be at least 6m from hedgerows containing large conifers and deciduous forest trees.

Contractor

- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Rev.	Date	Description	By	Eng' Crk	Dis' Crk	App'd
P01	13/02/20	First Revision		NH	TO	MM

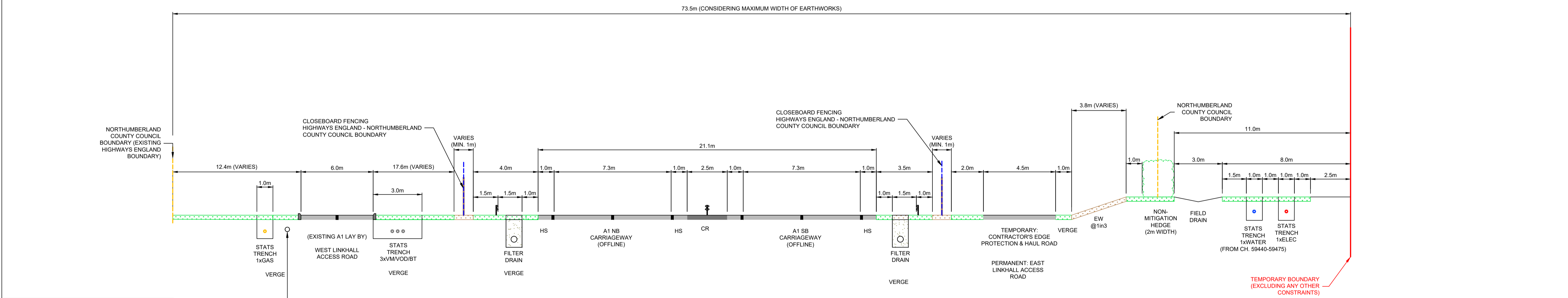
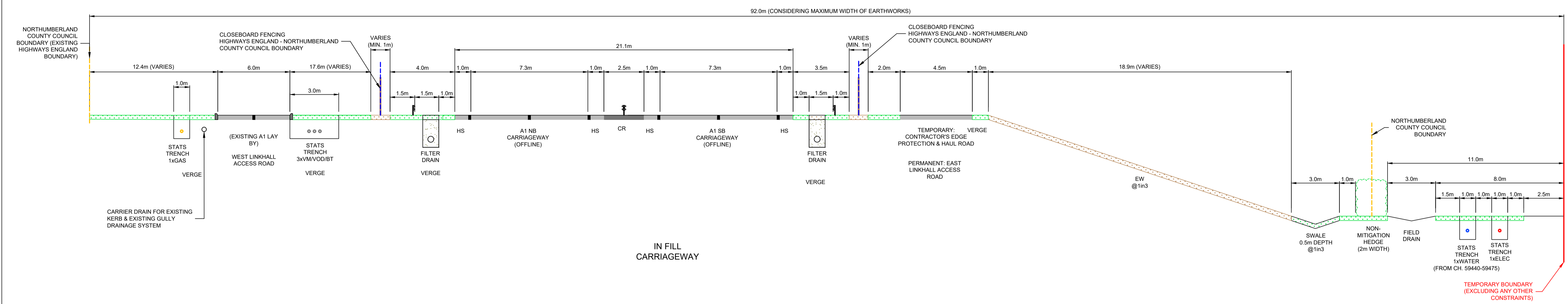
Suitability	Status	Project Title
For Information	S2	A1 in Northumberland Alnwick to Ellingham Scheme
 <p>8 First Street Manchester M15 4RP</p> <p>T+44 1612 005 000 wsp.com</p>		
		
Client	Volume	Revision
HE PIN	WSP	HGN
HE551459		P01
Drawing Number	DR	CH
A2E	00049	00049
Section	Type	ID
PW Stage Code		
3		

OFFLINE SECTION

CH 59440 - 59625

DO NOT SCALE

100
0 10
Millimetres



- STATS**
- BT / VODAFONE / VIRGIN MEDIA
 - WATER MAIN
 - GAS MAIN
 - ELECTRICITY

CARRIER DRAIN FOR EXISTING KERB & EXISTING GULLY DRAINAGE SYSTEM

ENVIRONMENTAL MITIGATION AREA NOT CURRENTLY SHOWN IN THE SECTION

NOTES - Assumptions:

Area 14 requirements

- 2m clearance at the back of any earthwork slopes for grass cutting (not including swales).
- 1m clearance to fixed assets (lighting column, VRS, sign posts, etc - not including swales).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline.
- Where the carriageway is in cutting and super-elevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

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- Northern Powergrid 66kV cable must be at least 6m from hedgerows containing large conifers and deciduous forest trees.

Contractor

- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Rev.	Date	Description	By	Eng' Crk	Dis' Crk	App'd
P01	13/02/20	First Revision				

Suitability: For Information

Status: S2

Project Title: A1 in Northumberland Alnwick to Ellingham Scheme

Drawing Title: Indicative Cross Section Section 9

Scale: NTS

Drawn: NH

Eng. Check: TO

Approved: MM

Authorised: DM

Original Size: A1

Date: 13/02/20

Date: 13/02/20

Date: 13/02/20

Date: 13/02/20

Drawing Number: HE551459

HE PIN: HE551459

Originator: WSP

Volume: HGN

Revision: P01

A2E

Section: A2E

Type: DR

ID: CH

Direction: DR

Type: CH

Role: 00050

Number: 3

Scale	Drawn	Eng. Check	Approved	Authorised
NTS	NH	TO	MM	DM

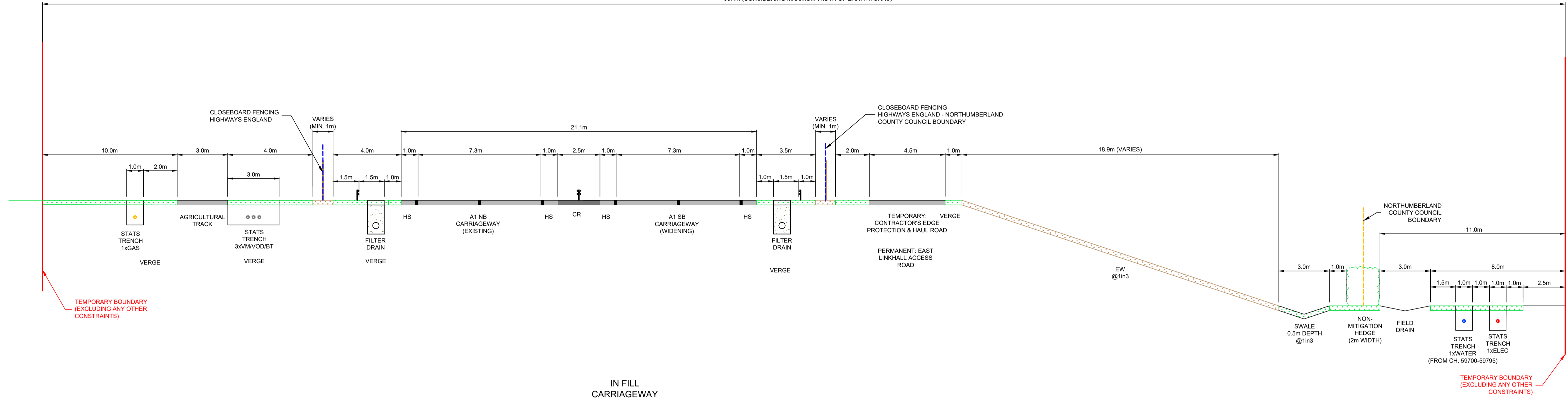
ONLINE SECTION

CH 59625 - 59795

DO NOT SCALE

100
0 10
Millimetres

90.4m (CONSIDERING MAXIMUM WIDTH OF EARTHWORKS)



IN FILL CARRIAGEWAY

STATS

- BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

ENVIRONMENTAL MITIGATION AREA NOT CURRENTLY SHOWN IN THE SECTION

NOTES - Assumptions:

Area 14 requirements

- 2m clearance at the back of any earthwork slopes for grass cutting (not including swales).
- 1m clearance to fixed assets (lighting column, VRS, sign posts, etc - not including swales).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline.
- Where the carriageway is in cutting and super-elevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
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- Northern Powergrid 66kV cable must be at least 6m from hedgerows containing large conifers and deciduous forest trees.

Contractor

- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Rev.	Date	Description	By	Eng' Crk	Dis' Crk	App'd
P01	13/02/20	First Revision		NH	TO	MM

Suitability: For Information

Status: S2

Project Title: A1 in Northumberland Alnwick to Ellingham Scheme

Drawing Title: Indicative Cross Section Section 10

Scale: NTS

Drawn: NH

Eng. Check: TO

Approved: MM

Authorised: DM

Original Size: A1

Date: 13/02/20

Date: 13/02/20

Date: 13/02/20

Date: 13/02/20

Drawing Number: HE551459

HE PIN: HE551459

Originator: WSP

Volume: HGN

Revision: P01

A2E

Section: A2E

Type: DR

Direction: CH

Type: CH

Role: 00056

Number: 3

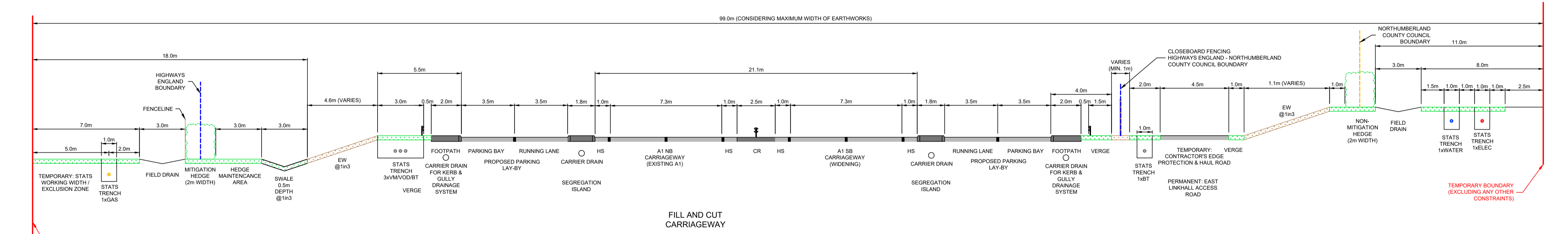
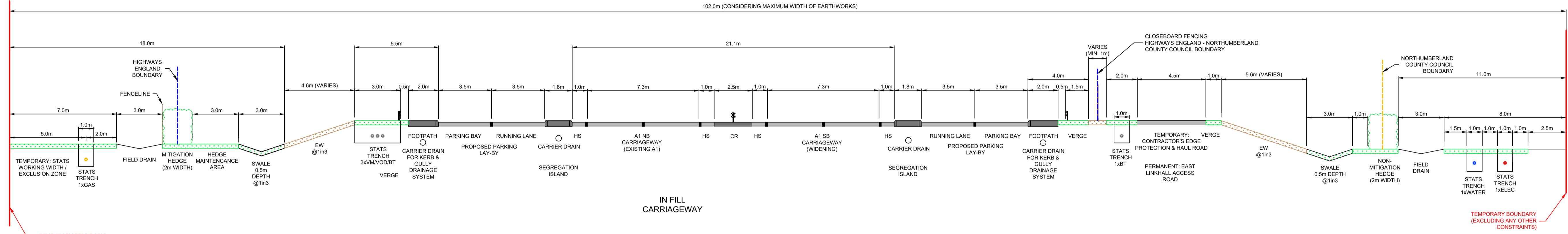
Client: highways england

Scale	Drawn	Eng. Check	Approved	Authorised
NTS	NH	TO	MM	DM

ONLINE SECTION

CH 59795 - 60115

DO NOT SCALE



ENVIRONMENTAL MITIGATION AREA NOT CURRENTLY SHOWN IN THE SECTION

STATS

- BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

NOTES - Assumptions:

Area 14 requirements

- 2m clearance at the back of any earthwork slopes for grass cutting (not including swales).
- 1m clearance to fixed assets (lighting column, VRS, sign posts, etc - not including swales).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline.
- Where the carriageway is in cutting and super-elevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
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- Northern Powergrid 66kV cable must be at least 6m from hedgerows containing large conifers and deciduous forest trees.

Contractor

- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Rev.	Date	Description	By	Eng' Crk	Dis' Crk	App'd
P01	13/02/20	First Revision		NH	TO	MM

Suitability: For Information

Status: S2

Project Title: A1 in Northumberland Alnwick to Ellingham Scheme

Drawing Title: Indicative Cross Section Section 11

Scale: NTS

Drawn: NH

Eng. Check: TO

Approved: MM

Authorised: DM

Original Size: A1

Date: 13/02/20

Date: 13/02/20

Date: 13/02/20

Date: 13/02/20

Date: 13/02/20

Drawing Number: HE551459

HE PIN: A2E

Originator: WSP

Volume: HGN

Revision: P01

DR: DR

CH: CH

00057

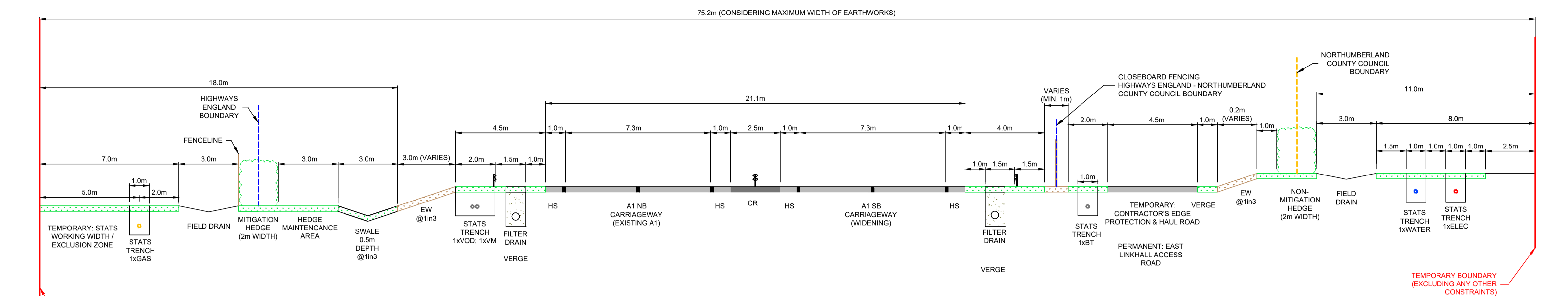
PW Stage Code: 3

Client: highways england

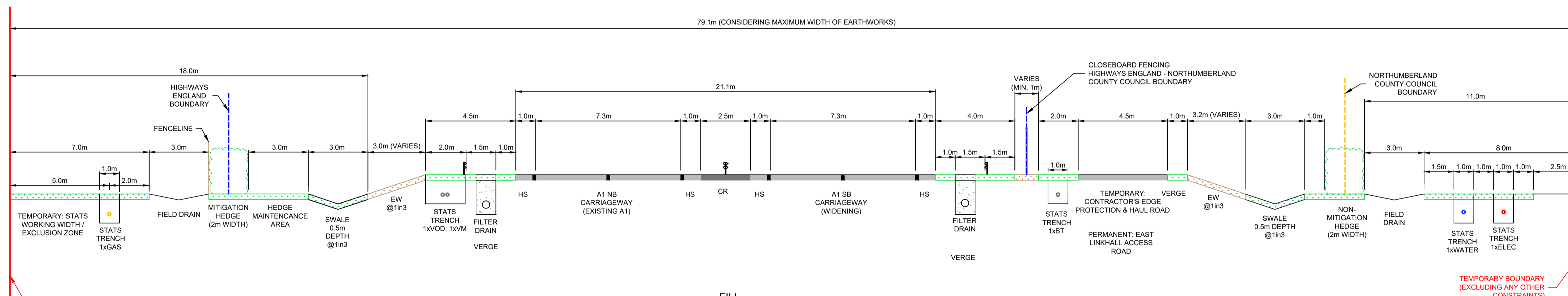
ONLINE SECTION CH 60115 - 60200

DO NOT SCALE

Millimetres
0 10 100



FILL AND CUT
CARRIAGEWAY



FILL
CARRIAGEWAY

ENVIRONMENTAL MITIGATION AREA NOT
CURRENTLY SHOWN IN THE SECTION

STATS

- BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

NOTES - Assumptions:

Area 14 requirements

- 2m clearance at the back of any earthwork slopes for grass cutting (not including swales).
- 1m clearance to fixed assets (lighting column, VRS, sign posts, etc - not including swales).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline.
- Where the carriageway is in cutting and super-elevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.
- Northern Powergrid 66kV cable must be at least 6m from hedgerows containing large conifers and deciduous forest trees.

Contractor

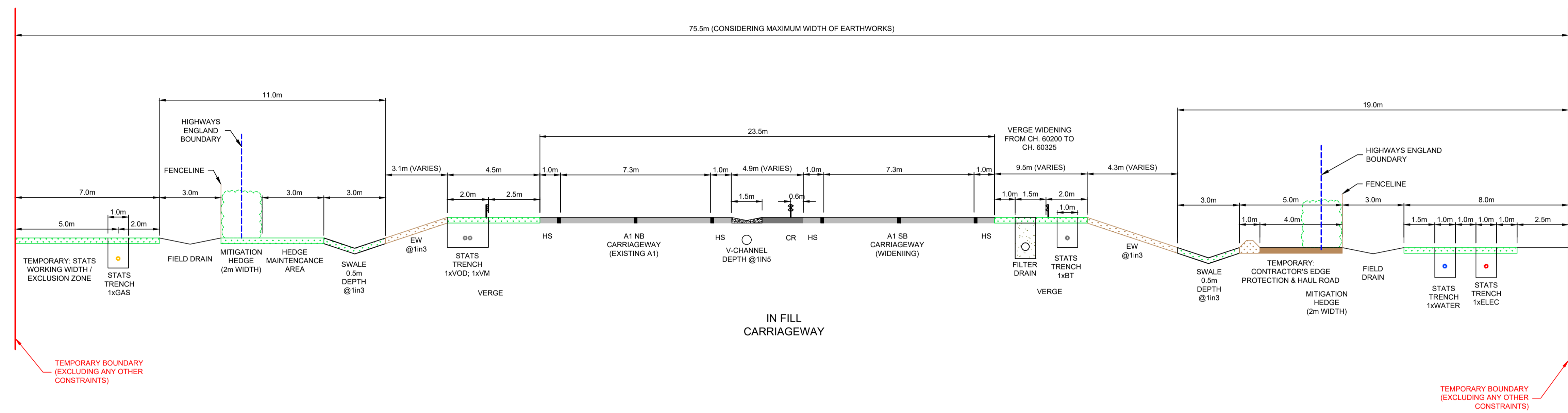
- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Rev.	Date	Description	By	Eng' Crk	Dis' Crk	App'd
P01	13/02/20	First Revision		NH	TO	MM

Suitability	Status	Project Title
For Information	S2	A1 in Northumberland Alnwick to Ellingham Scheme
<p>8 First Street Manchester M15 4RP</p> <p>T+44 1612 005 000 wsp.com</p>		
Scale	Drawn	Eng. Check
NTS	NH	TO
Original Size	Date	Date
A1	13/02/20	13/02/20
Approved	Authorised	
MM	DM	
Date	Date	
13/02/20	13/02/20	
Drawing Number	Originator	Volume
HE PIN	WSP	HGN
HE551459		
Section	Type	ID
A2E	DR	CH
	Type	Role
		Number
		00058
Revision	Revision	
P01		
PW Stage Code		
		3

ONLINE SECTION CH 60200 - 60325

DO NOT SCALE



STATS

- BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

ENVIRONMENTAL MITIGATION AREA NOT CURRENTLY SHOWN IN THE SECTION

NOTES - Assumptions:

Area 14 requirements

- 2m clearance at the back of any earthwork slopes for grass cutting (not including swales).
- 1m clearance to fixed assets (lighting column, VRS, sign posts, etc - not including swales).
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Drainage requirements

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- Northern Powergrid 66kV cable must be at least 6m from hedgerows containing large conifers and deciduous forest trees.

Contractor

- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Rev.	Date	Description	By	Eng' Chk	Dis' Chk	App'd
P01	13/02/20	First Revision		NH	TO	MM

Suitability	Status	Project Title
For Information	S2	A1 in Northumberland Alnwick to Ellingham Scheme
<p>8 First Street Manchester M15 4RP</p> <p>T+44 1612 005 000 wsp.com</p>		
Client	Volume	Revision
HE PIN	WSP	HGN
HE551459		P01
Drawing Number	Direction	Revision
A2E	DR	00059
Section	Type	Number
		3

ONLINE SECTION CH 60325 - 60530

DO NOT SCALE

Millimetres

0 10

0 10

0 10

0 10

0 10

0 10

0 10

0 10

0 10

0 10

0 10

0 10

0 10

0 10

0 10

0 10

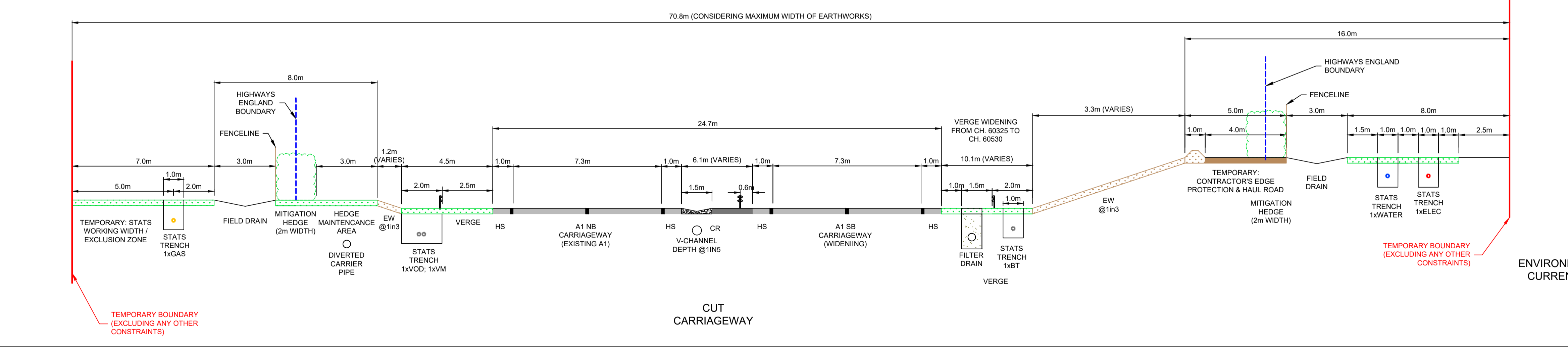
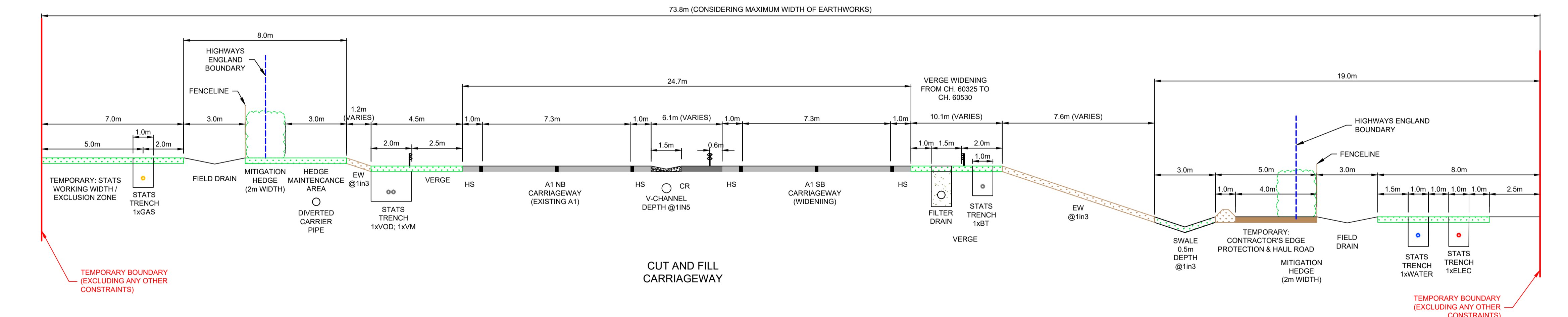
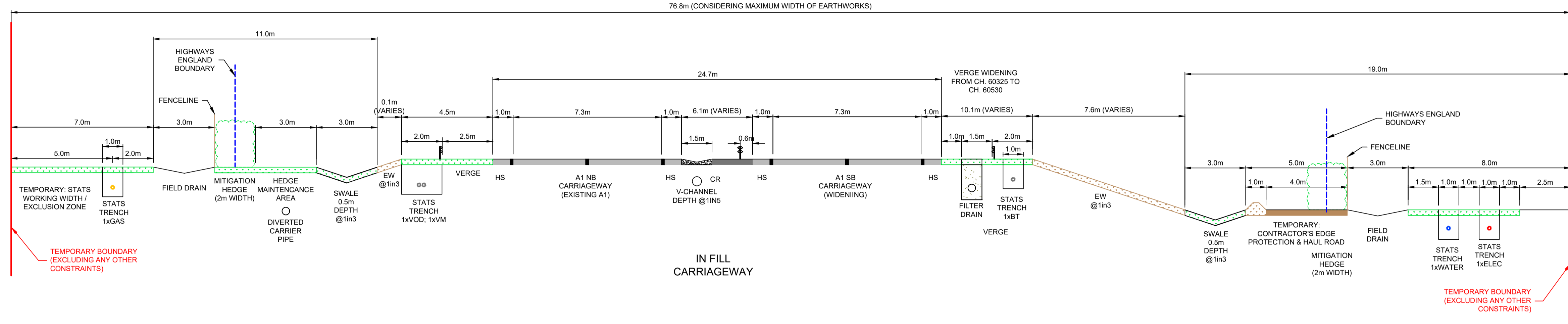
0 10

0 10

0 10

0 10

0 10



- STATS**
- BT / VODAFONE / VIRGIN MEDIA
 - WATER MAIN
 - GAS MAIN
 - ELECTRICITY

ENVIRONMENTAL MITIGATION AREA NOT CURRENTLY SHOWN IN THE SECTION

NOTES - Assumptions:

Area 14 requirements

- 2m clearance at the back of any earthwork slopes for grass cutting (not including swales).
- 1m clearance to fixed assets (lighting column, VRS, sign posts, etc - not including swales).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline.
- Where the carriageway is in cutting and super-elevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.

Signage

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Stats requirements

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- Northern Powergrid 66kV cable must be at least 6m from hedgerows containing large conifers and deciduous forest trees.

Contractor

- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

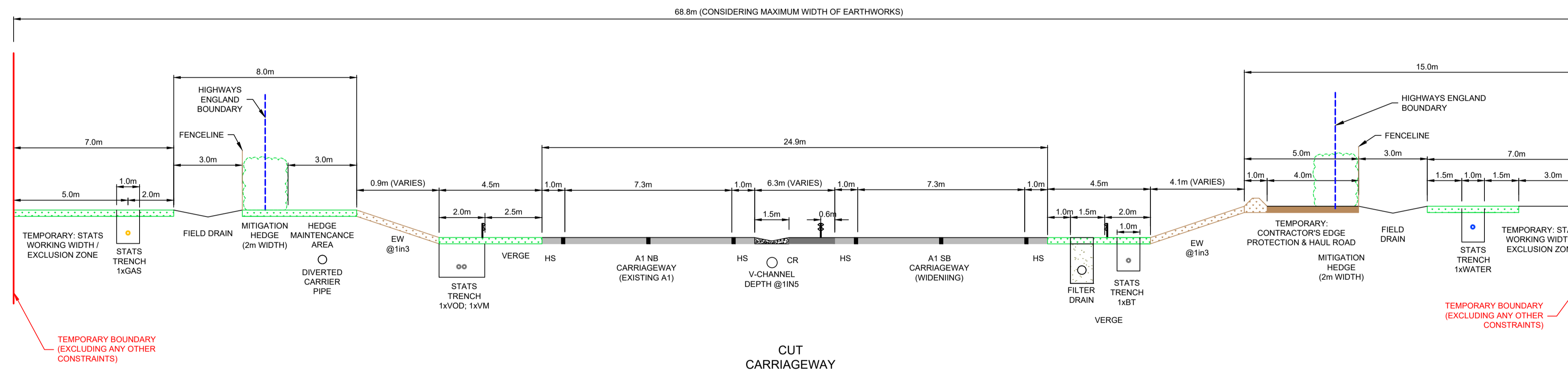
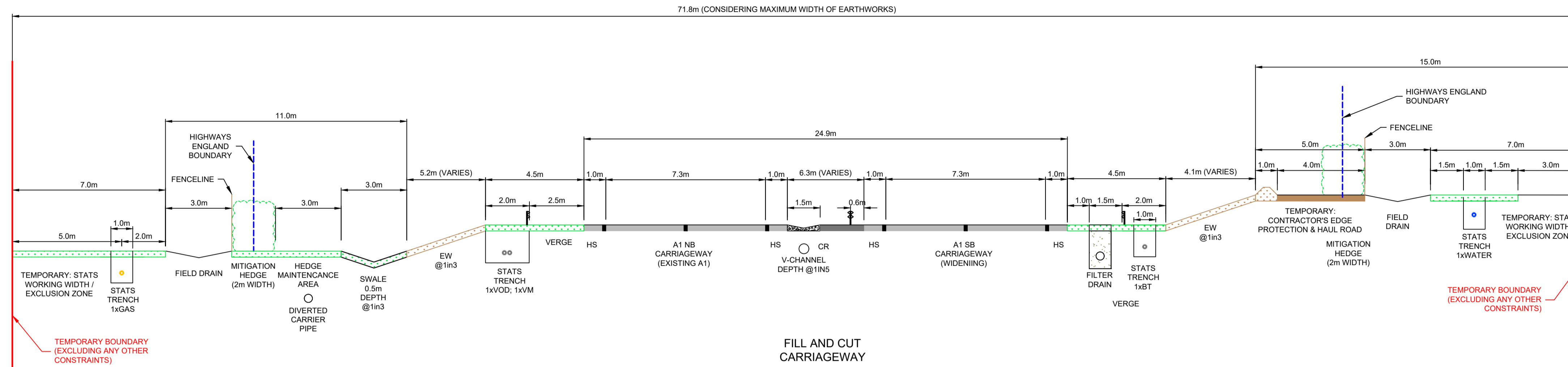
Rev.	Date	Description	By	Eng' Chk	Dis' Chk	App'd
P01	13/02/20	First Revision		NH	TO	MM

Suitability	Status	Project Title
For Information	S2	A1 in Northumberland Alnwick to Ellingham Scheme
<p>8 First Street Manchester M15 4RP</p> <p>T+44 1612 005 000 wsp.com</p>		
Client	Volume	Revision
HE PIN	WSP	HGN
HE551459		P01
Section	Type	ID
A2E	DR	CH
	00060	
		3

ONLINE SECTION CH 60530 - 60615

DO NOT SCALE

Millimetres



STATS

- BT / VODAFONE / VIRGIN MEDIA
- WATER MAIN
- GAS MAIN
- ELECTRICITY

ENVIRONMENTAL MITIGATION AREA NOT CURRENTLY SHOWN IN THE SECTION

NOTES - Assumptions:

Area 14 requirements

- 2m clearance at the back of any earthwork slopes for grass cutting (not including swales).
- 1m clearance to fixed assets (lighting column, VRS, sign posts, etc - not including swales).
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Safety Barrier

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Drainage requirements

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Contractor

- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	13/02/20	First Revision	NH	TO	MM	DM

Suitability: For Information

Status: S2

Client: **wsp**

8 First Street
Manchester
M15 4RP

T+44 1612 005 000
wsp.com

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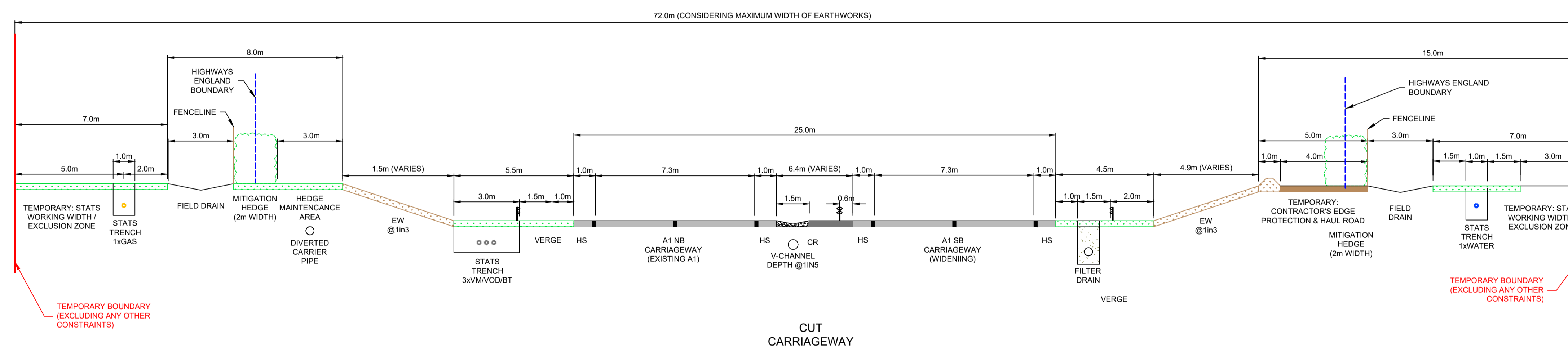
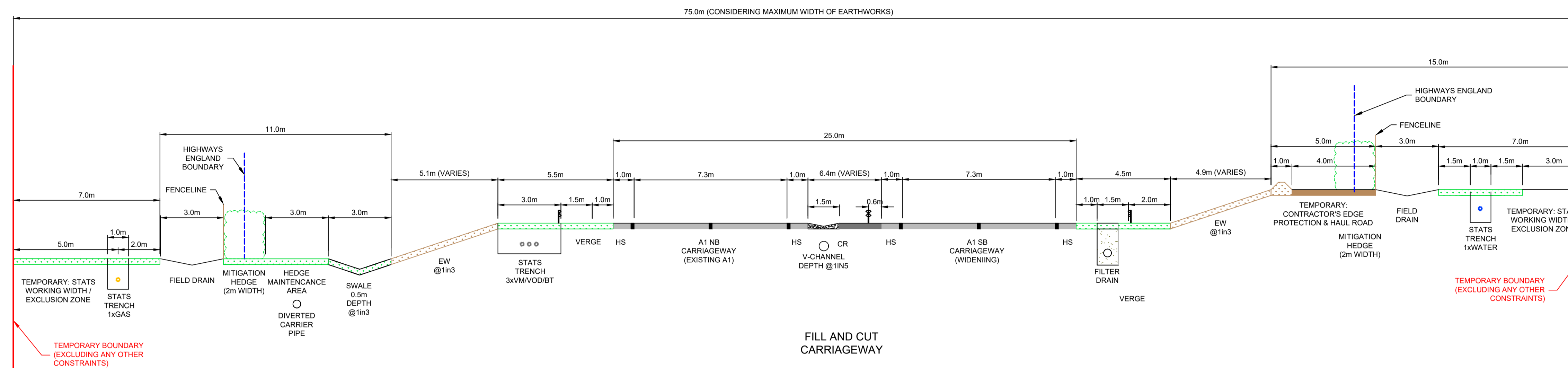
**highways
england**

Project Title		A1 in Northumberland Alnwick to Ellingham Scheme			
Drawing Title		Indicative Cross Section Section 15			
Scale	Drawn	Eng. Check	Approved	Authorised	
NTS	NH	TO	MM	DM	
Original Size	Date	Date	Date	Date	
A1	13/02/20	13/02/20	13/02/20	13/02/20	
Drawing Number	HE PIN	Originator	Volume	Revision	
HE551459		WSP	HGN	P01	
A2E	Section	DR	CH	00074	PW Stage Code
	Type	ID	Type	Number	3

ONLINE SECTION CH 60615 - 60880

DO NOT SCALE

Millimetres



- STATS**
- BT / VODAFONE / VIRGIN MEDIA
 - WATER MAIN
 - GAS MAIN
 - ELECTRICITY

ENVIRONMENTAL MITIGATION AREA NOT CURRENTLY SHOWN IN THE SECTION

- NOTES - Assumptions:**
- Area 14 requirements**
- 2m clearance at the back of any earthwork slopes for grass cutting (not including swales).
 - 1m clearance to fixed assets (lighting column, VRS, sign posts, etc - not including swales).
 - Filter drain located in front of safety barrier for maintenance purposes.
- Safety Barrier**
- Where required, verge safety barrier assumed at back of filter drain.
 - Maximum working width assumed W4 (<1.3m), unless stated otherwise.
- Drainage requirements**
- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline.
 - Where the carriageway is in cutting and super-elevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.

- Signage**
- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.
- Stats requirements**
- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
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 - Northern Powergrid 66kV cable must be at least 6m from hedgerows containing large conifers and deciduous forest trees.
- Contractor**
- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Rev.	Date	Description	By	Eng' Crk	Dis' Crk	App'd
P01	13/02/20	First Revision		NH	TO	MM DM

Suitability: For Information

Status: S2

Project Title: A1 in Northumberland Alnwick to Ellingham Scheme

Drawing Title: Indicative Cross Section Section 16

Scale: NTS

Drawn: NH

Eng. Check: TO

Approved: MM

Authorised: DM

Original Size: A1

Date: 13/02/20

Date: 13/02/20

Date: 13/02/20

Date: 13/02/20

Date: 13/02/20

Drawing Number: HE551459

HE PIN: HE551459

Originator: WSP

Volume: HGN

Revision: P01

A2E Section

Type: DR

ID: CH

Direction: DR

Type: CH

Role: 00075

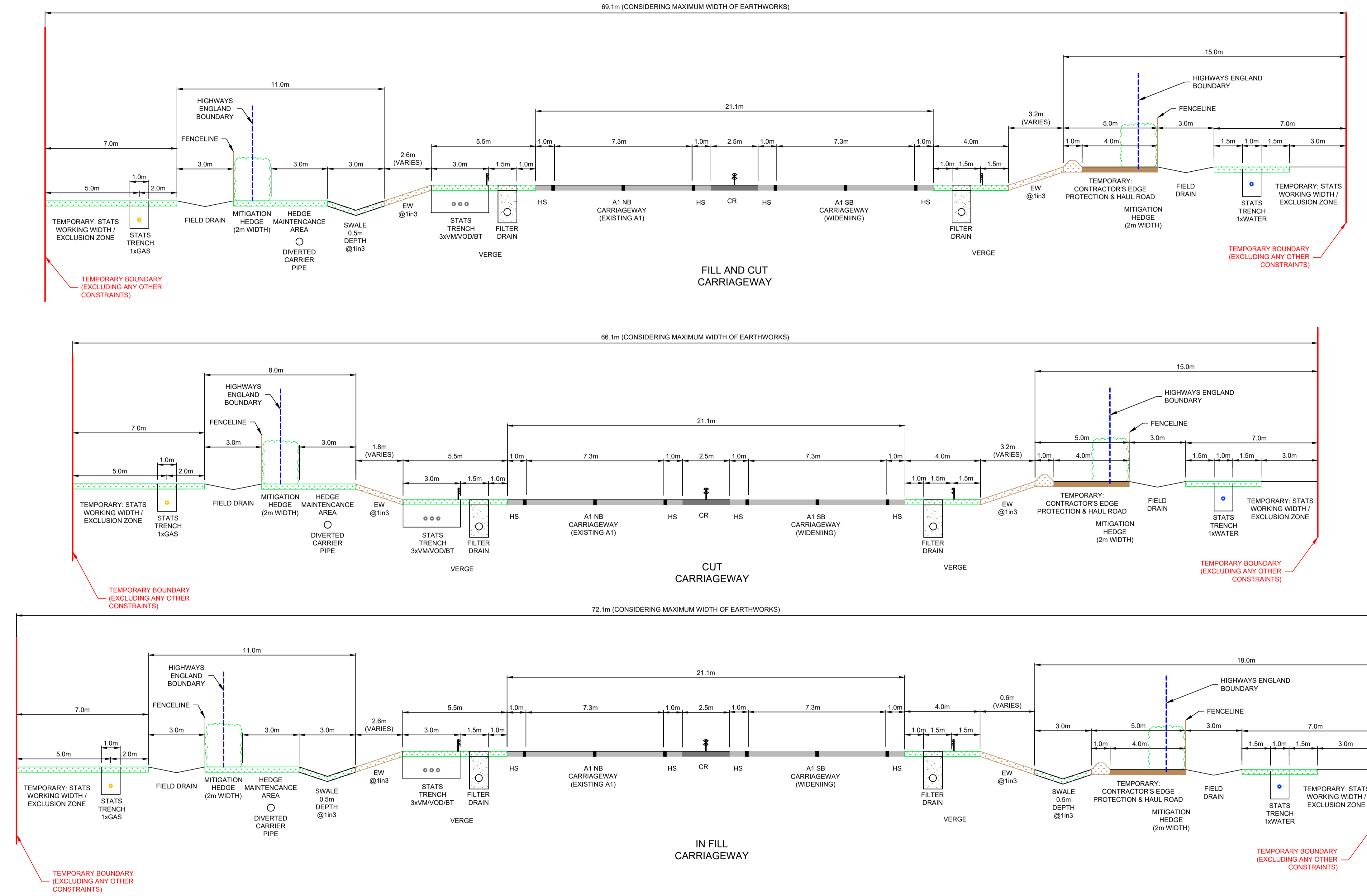
Number: 3

Client: highways england

ONLINE SECTION CH 60880 - 61100

DO NOT SCALE

100
0 10
Millimetres



- STATS**
- BT / VODAFONE / VIRGIN MEDIA
 - WATER MAIN
 - GAS MAIN
 - ELECTRICITY

ENVIRONMENTAL MITIGATION AREA NOT CURRENTLY SHOWN IN THE SECTION

NOTES - Assumptions:

Area 14 requirements

- 2m clearance at the back of any earthwork slopes for grass cutting (not including swales).
- 1m clearance to fixed assets (lighting column, VRS, sign posts, etc - not including swales).
- Filter drain located in front of safety barrier for maintenance purposes.

Safety Barrier

- Where required, verge safety barrier assumed at back of filter drain.
- Maximum working width assumed W4 (<1.3m), unless stated otherwise.

Drainage requirements

- For online sections, where existing carriageway is not being widened, all highway drainage works will be undertaken within the existing fenceline.
- Where the carriageway is in cutting and super-elevated, filter drain for earthworks will be incorporated within the slope of the cutting to minimise verge width requirements.

Signage

- A 6m wide sign can be accommodated on a 4.5m wide earthwork slope. If earthworks are less than 4.5m wide, additional land may be required.

Stats requirements

- For stats diversions, all telecommunication services (BT/Virgin Media/Vodafone) are located in verges for maintenance access. All other services are located in private land by default, but may be located in verges where required.
- In fields, total width allowance for stats is a minimum of 7m. This is made up of a 4m temporary working width, 1m minimum trench width (1m for single utility, additional 1m per utility) with 1m clearance either side of the trench.
- Northern Powergrid 66kV cable must be at least 6m from hedgerows containing large conifers and deciduous forest trees.

Contractor

- Permanent fenceline (2m hedge width) to overlap with haul road for online sections unless stated otherwise.

Rev.	Date	Description	By	Eng' Crk	Dis' Crk	App'd
P01	13/02/20	First Revision		NH	TO	MM

Suitability: For Information
Status: S2

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M15 4RP

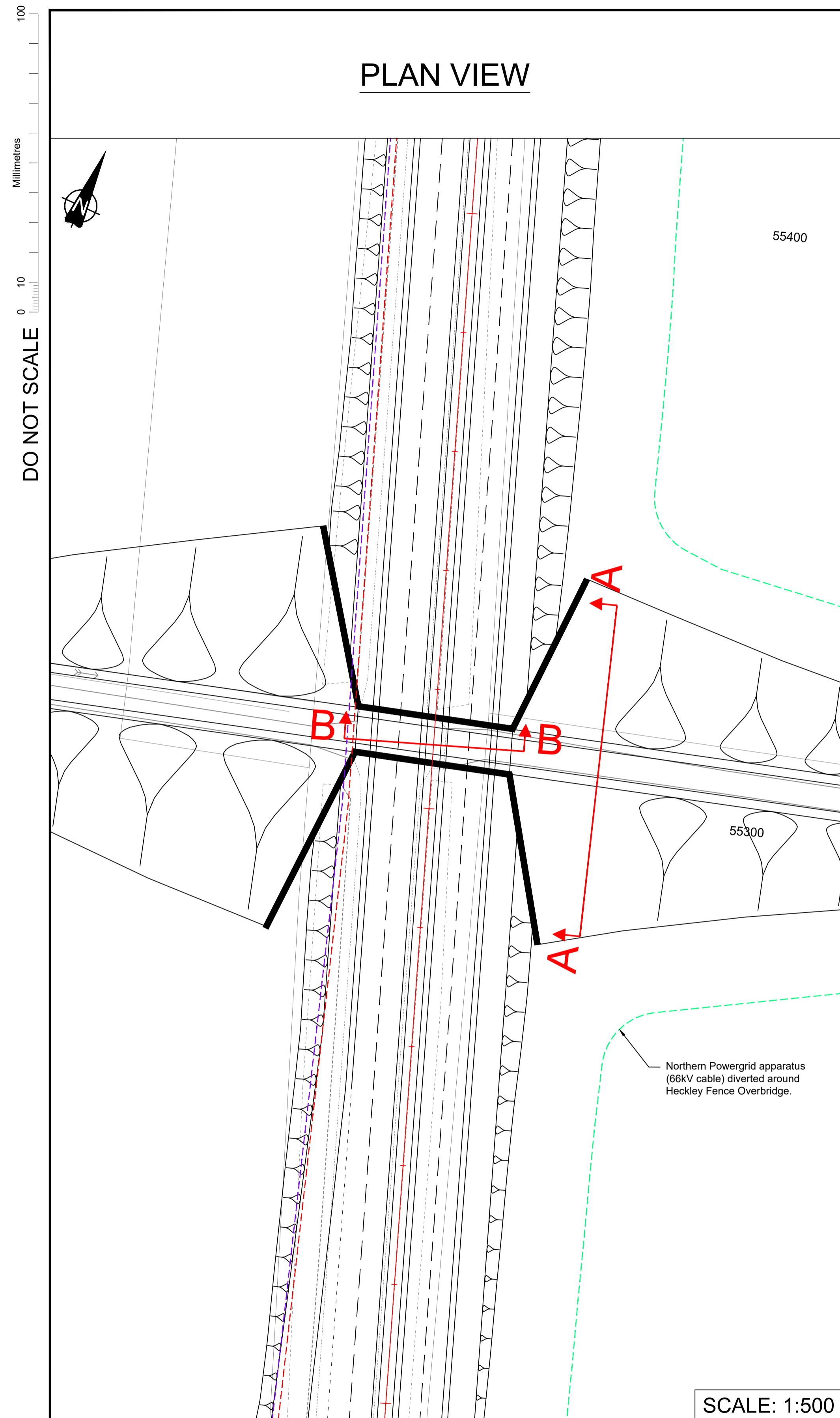
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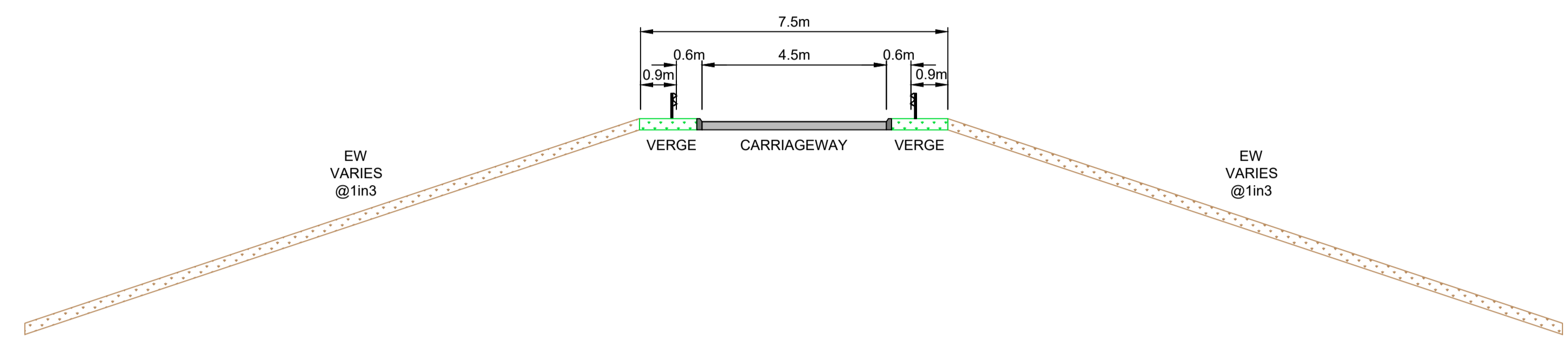
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NTS	NH	TO	MM	DM	
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Drawing Number	HE PIN	Originator	Volume	Revision	
HE551459		WSP	HGN	P01	
A2E		DR	CH	00077	PW Stage Code
Section	Type	ID	Type	Role	Number
					3

PLAN VIEW



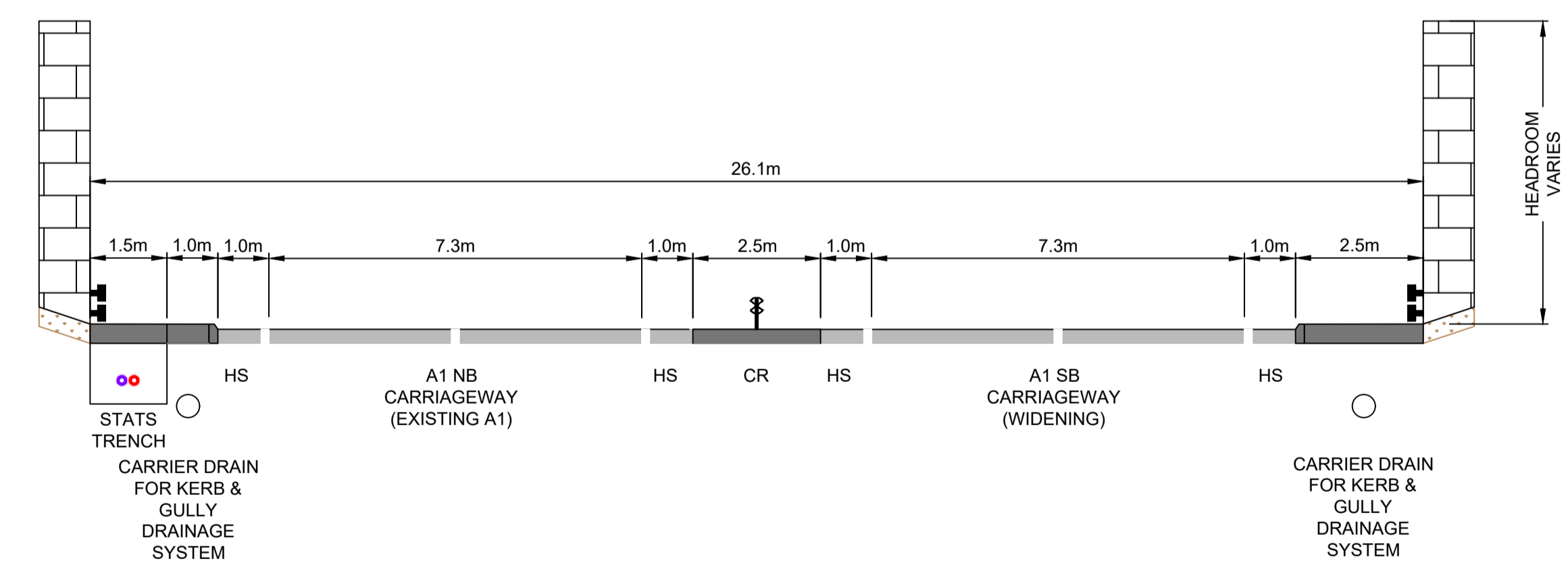
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CROSS SECTION CH 55+310 - HECKLEY FENCE OVERBRIDGE



SECTION A - A
CROSS SECTION ON APPROACH TO THE STRUCTURE

SCALE: 1:100



SECTION B - B
MAINLINE CROSS SECTION AT PROPOSED OVERBRIDGE

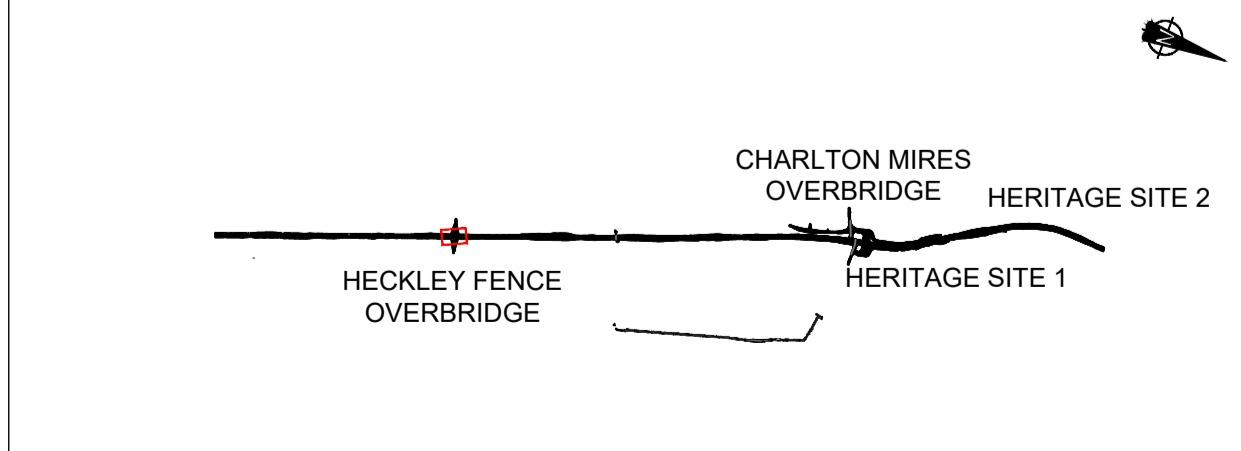
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PLAN KEY

- OVERBRIDGE (PLAN VIEW)
- CROSS SECTION CUT LINE
- CULVERT

STATS

- BT
- WATER MAIN
- GAS MAIN
- ELECTRICITY
- VIRGIN MEDIA
- VODAFONE
- PROPOSED STATS DIVERSIONS



NOTES

- Cross sections show an indicative arrangement.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
P01	13/02/20	First Revision		NH	TO	MM

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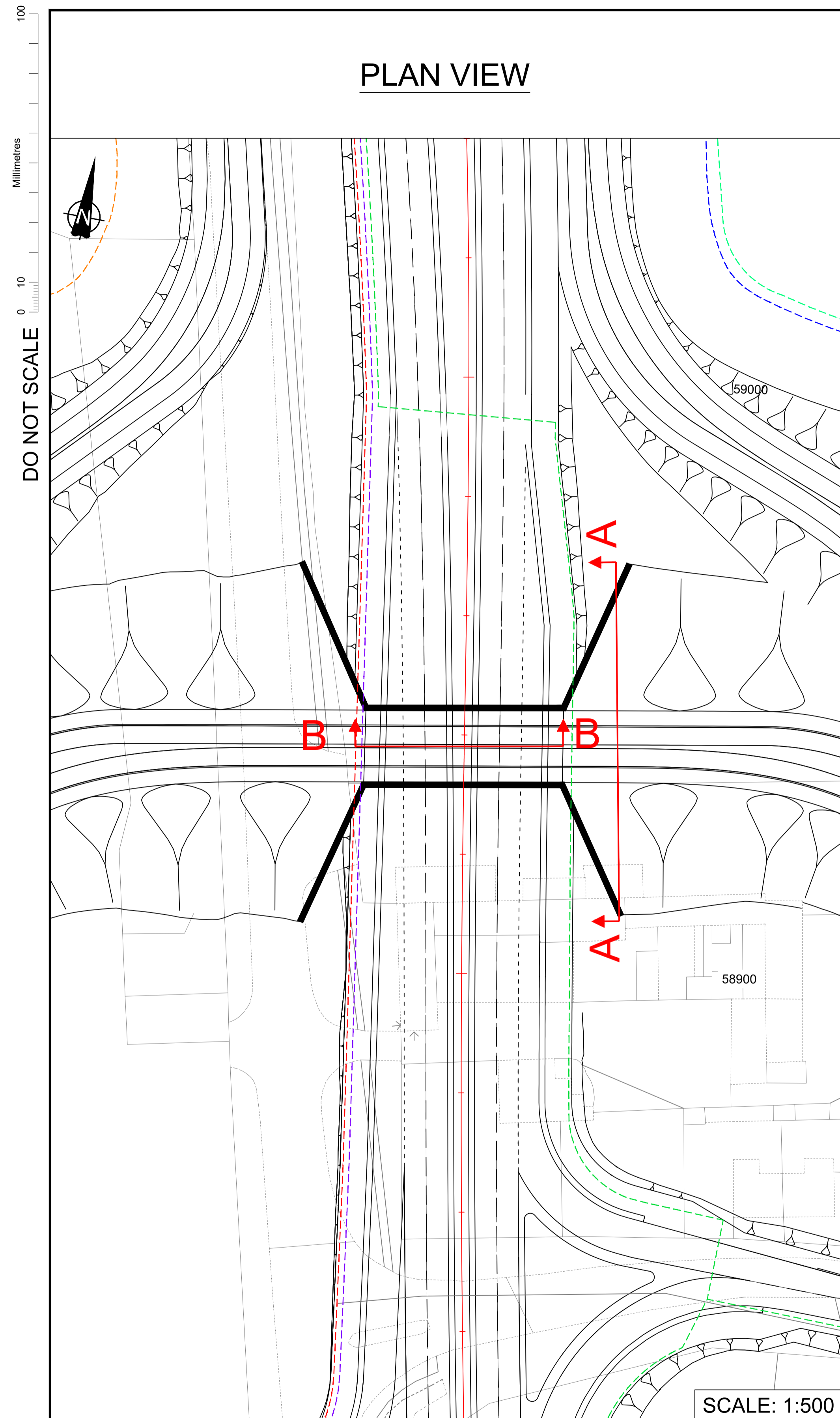
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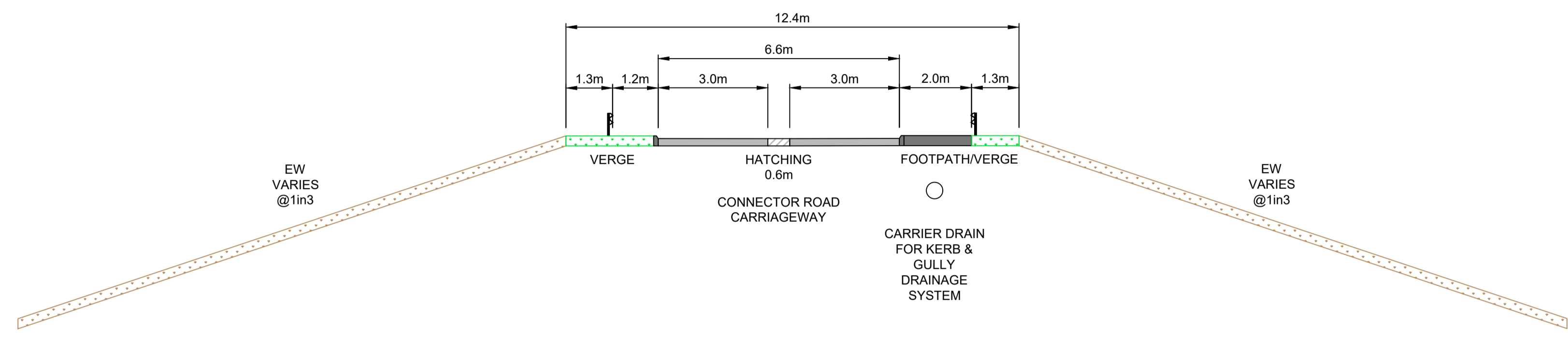
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As Shown	NH	TO	MM	DM	
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A2E	DR	CH	00070	PW Stage Code	
Section	Type	ID	Number	3	

PLAN VIEW



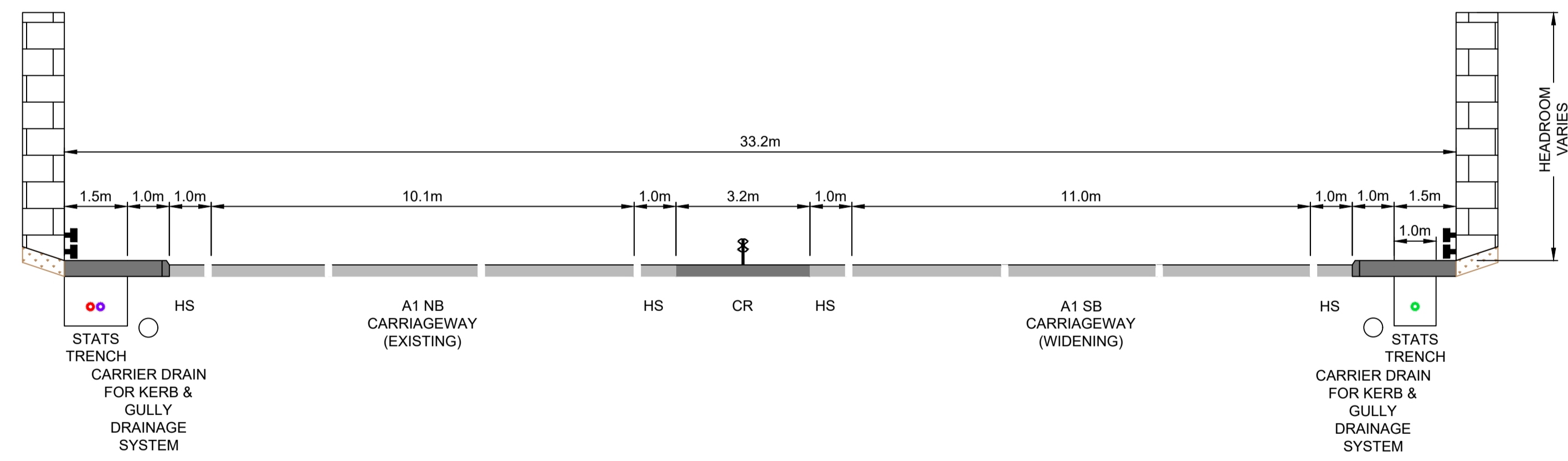
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CROSS SECTION CH 58+940 - CHARLTON MIRES OVERBRIDGE



SECTION A - A
CONNECTOR ROAD CROSS SECTION ON APPROACH TO THE STRUCTURE

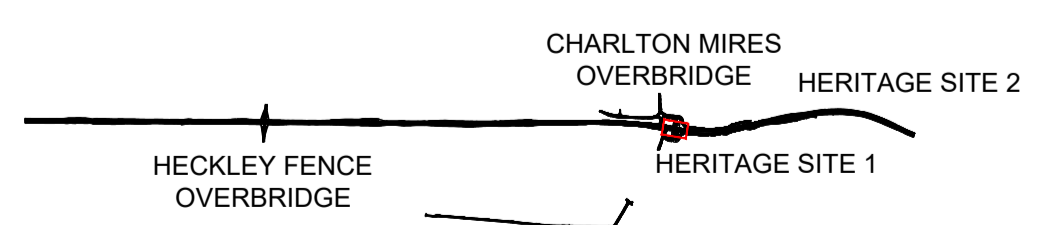
SCALE: 1:100



SECTION B - B
MAINLINE CROSS SECTION AT PROPOSED OVERBRIDGE

SCALE: 1:100

- PLAN KEY**
- OVERBRIDGE (PLAN VIEW)
 - CROSS SECTION CUT LINE
 - CULVERT
- STATS**
- BT
 - WATER MAIN
 - GAS MAIN
 - ELECTRICITY
 - VIRGIN MEDIA
 - VODAFONE
 - PROPOSED STATS DIVERSIONS



NOTES

- Cross sections show an indicative arrangement.

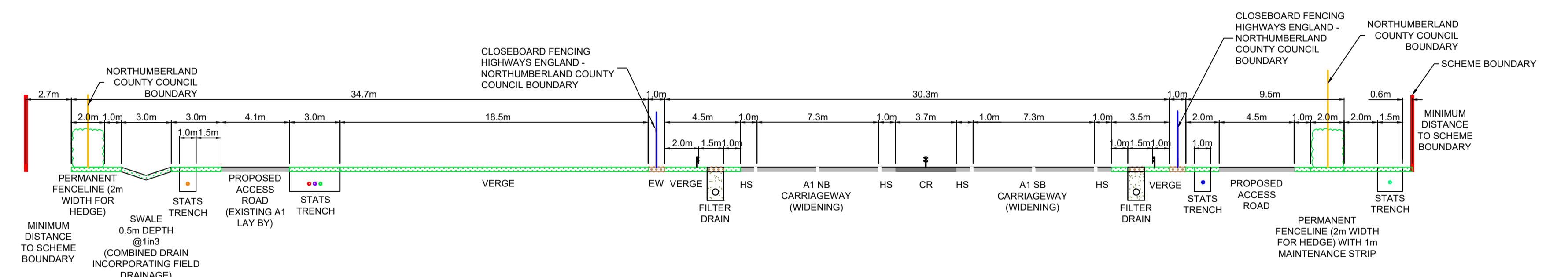
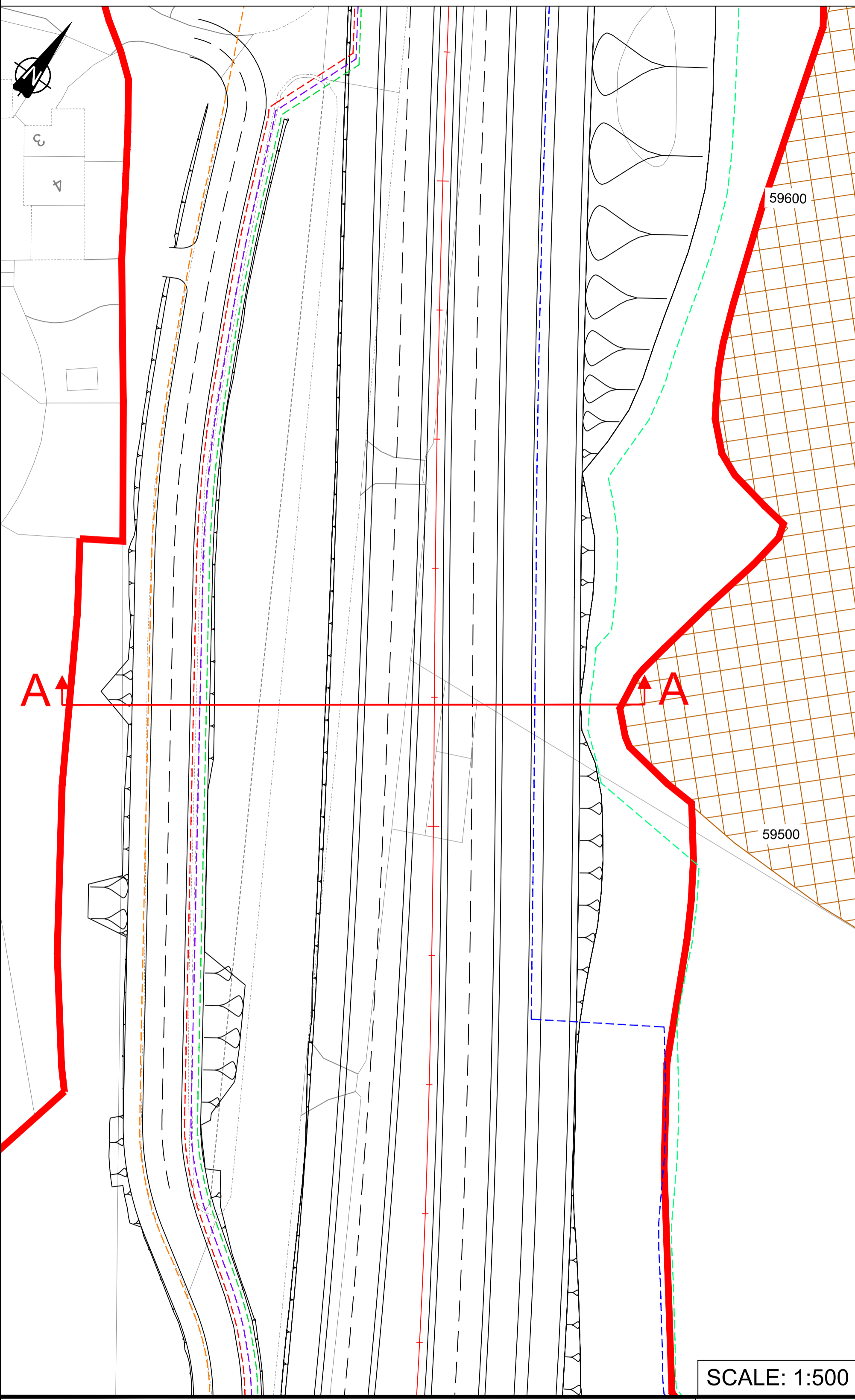
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P01	13/02/20	First Revision				

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<p>8 First Street Manchester M15 4RP, UK T+ 44 (0) 161 200 5000 wsp.com</p>				Drawing Title			
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Scale		Drawn		Eng. Check		Approved	
As Shown		NH		TO		MM	
Original Size		Date		Date		Date	
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HE PIN		WSP		HGN		P01	
HE551459							
A2E		DR		CH		00071	
Section		Type		ID		PW Stage Code	
						3	

PLAN VIEW

CROSS SECTION CH 59+520 - HERITAGE SITE 1

DO NOT SCALE



SECTION A - A CROSS SECTION AT PINCH POINT

SCALE: 1:500

SCALE: 1:200

PLAN KEY		STATS	
	OVERBRIDGE (PLAN VIEW)		BT
	CROSS SECTION CUT LINE		WATER MAIN
	CULVERT		GAS MAIN
	SCHEME BOUNDARY (EXTENT OF ENVIRONMENTAL ASSESSMENT)		ELECTRICITY
	HERITAGE SITE		VIRGIN MEDIA
			VODAFONE
			PROPOSED STATS DIVERSIONS

NOTES

- Cross sections show an indicative arrangement.

Rev.	Date	Description	By	Eng' Crk	Disc' Crk	App'd
P01	13/02/20	First Revision				

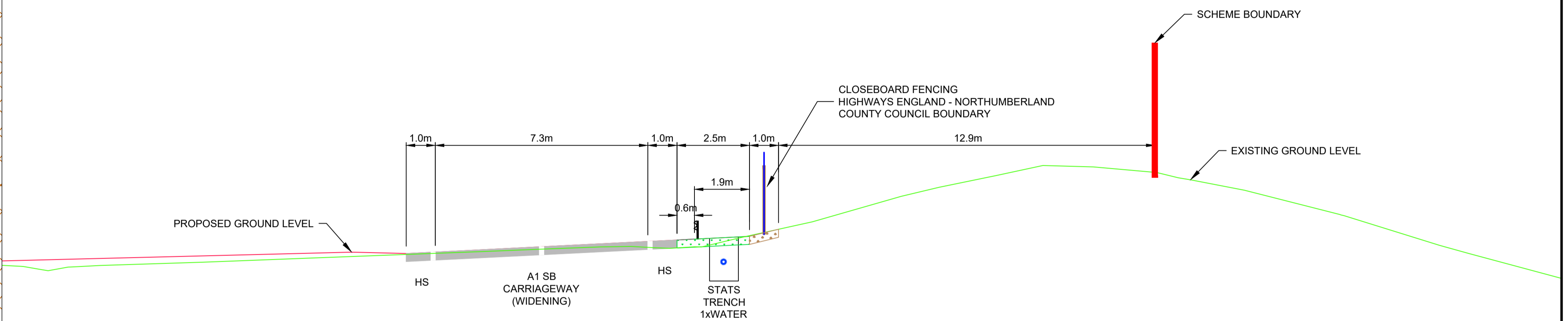
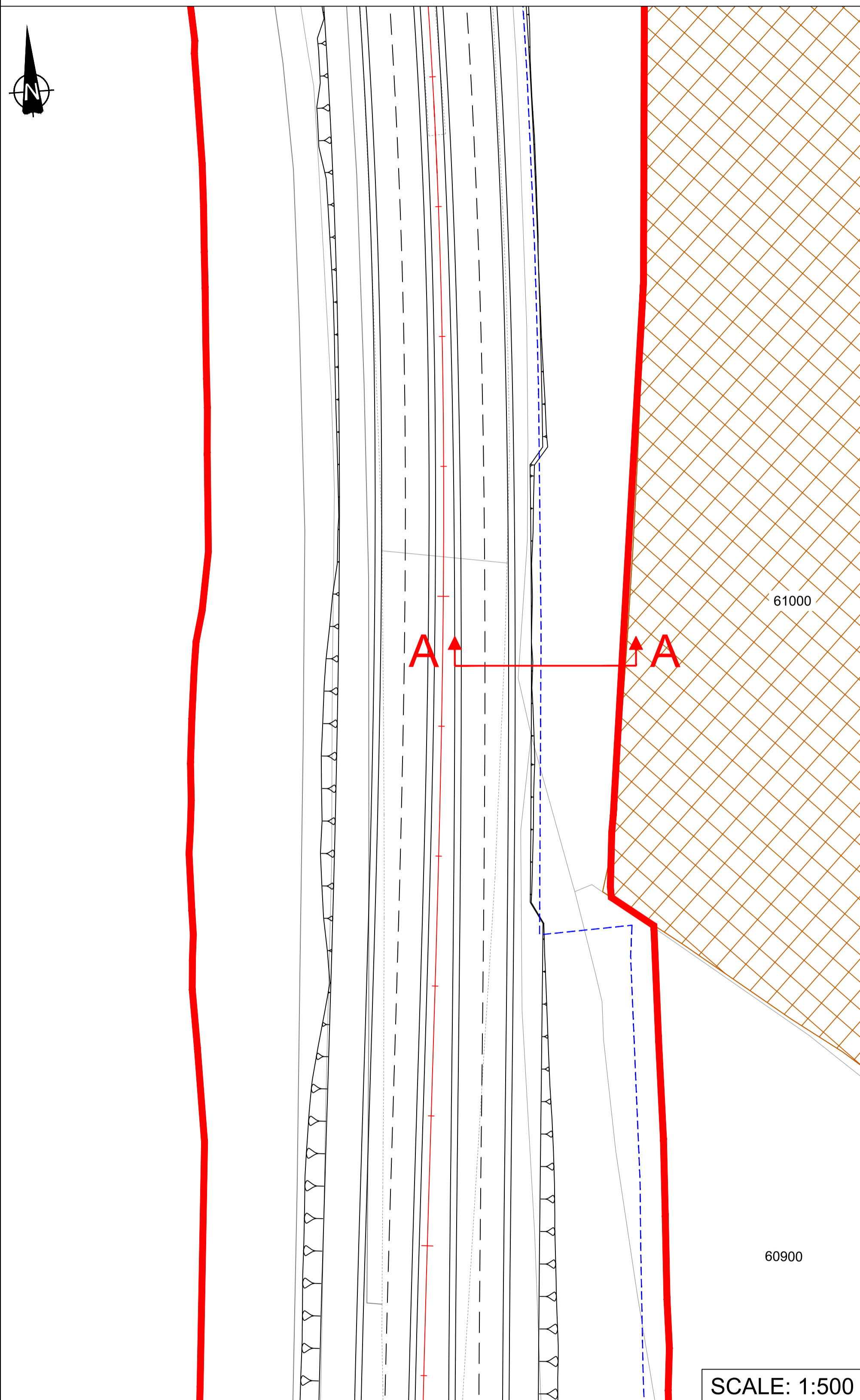
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As Shown	NH	TO	MM	DM	
Original Size	Date	Date	Date	Date	
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HE PIN	WSP		HGN		P01
A2E	Section	DR	CH	00072	PW Stage Code
	Type	ID	Type	Role	Number
					3

PLAN VIEW

CROSS SECTION CH 60+990 - HERITAGE SITE 2

DO NOT SCALE

Millimetres



SECTION A - A CROSS SECTION AT PINCH POINT

SCALE: 1:500

SCALE: 1:100

PLAN KEY

- OVERBRIDGE (PLAN VIEW)
- CROSS SECTION CUT LINE
- CULVERT
- SCHEME BOUNDARY (EXTENT OF ENVIRONMENTAL ASSESSMENT)
- HERITAGE SITE

STATS

- BT
- WATER MAIN
- GAS MAIN
- ELECTRICITY
- VIRGIN MEDIA
- VODAFONE
- PROPOSED STATS DIVERSIONS

NOTES

- Cross sections show an indicative arrangement.

Rev.	Date	Description	By	Eng' Chk	Disc' Chk	App'd
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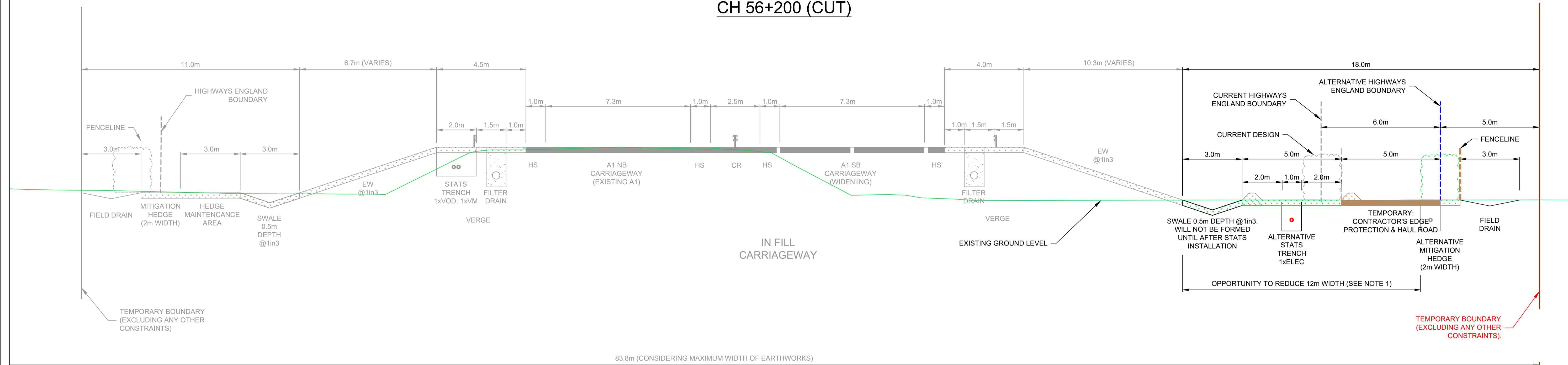
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Drawing Number	Originator	Volume	Revision		
HE PIN HE551459	WSP	HGN	P01		
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HE551459-WSP-HGN-A2E-DR-00076				Revision 3	

ONLINE SECTION

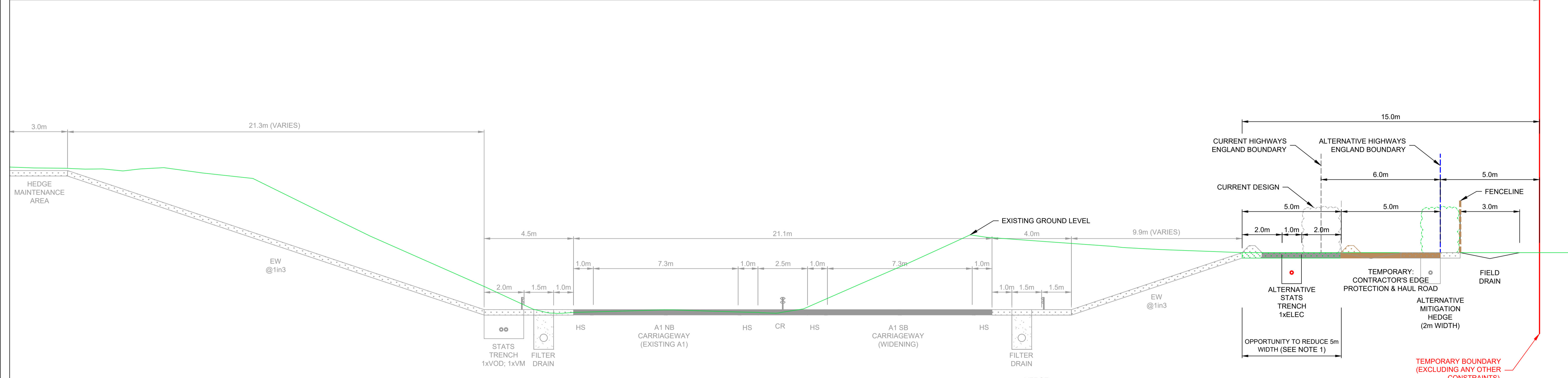
CH 57+420 (FILL)

CH 56+200 (CUT)

DO NOT SCALE



83.8m (CONSIDERING MAXIMUM WIDTH OF EARTHWORKS)



- STATS**
- BT / VODAFONE / VIRGIN MEDIA
 - WATER MAIN
 - GAS MAIN
 - ELECTRICITY

NOTES:

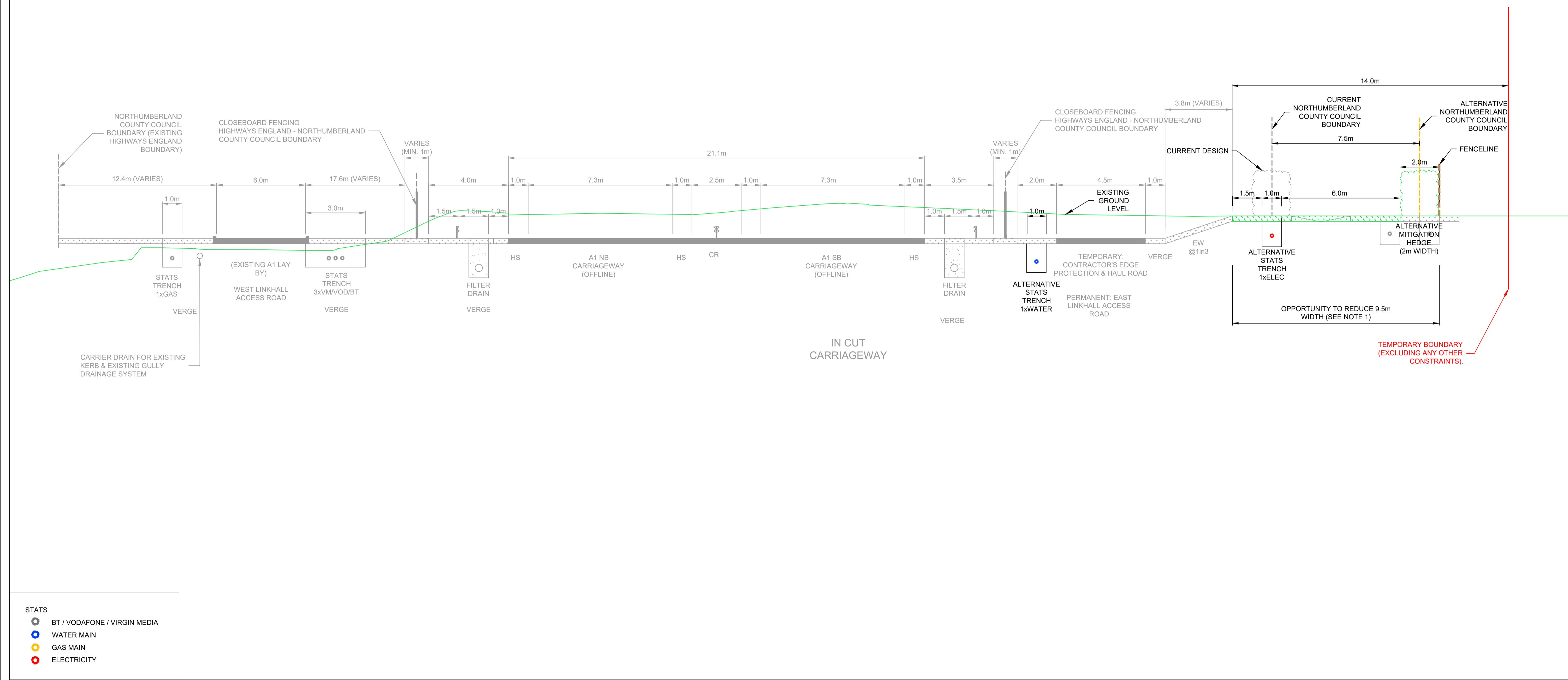
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 - CONSTRUCTION SEQUENCING
 - USE OF ROOT BARRIERS
 - FILTER DRAIN INSTEAD OF SWALE
- REQUIREMENT TO PROTECT STATS TRENCH AT CROSSOVER LOCATIONS TO BE DETERMINED AT STAGE 5.

Sustainability		Status		Project Title							
For Information		S2		A1 in Northumberland Alnwick to Ellingham Scheme							
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Client		Scale		Drawn		Eng. Check		Approved		Authorised	
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Drawing Number HE PIN HE551459 A2E		Date		Date		Date		Date		Date	
Originator WSP		13/02/20		13/02/20		13/02/20		13/02/20		13/02/20	
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Section Type ID		Direction Type Role		Number 00106		PW Stage Code 3					

ONLINE SECTION CH 59+500

DO NOT SCALE

100
0 10
Millimetres



- STATS**
- BT / VODAFONE / VIRGIN MEDIA
 - WATER MAIN
 - GAS MAIN
 - ELECTRICITY

NOTES:
 1. OPPORTUNITY TO REDUCE WIDTH AND THUS LAND ACQUISITION DEPENDING ON:
 • CONSTRUCTION SEQUENCING
 • USE OF ROOT BARRIERS
 • FILTER DRAIN INSTEAD OF SWALE
 2. REQUIREMENT TO PROTECT STATS TRENCH AT CROSSOVER LOCATIONS TO BE DETERMINED AT STAGE 5.

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								HE PIN		WSP	
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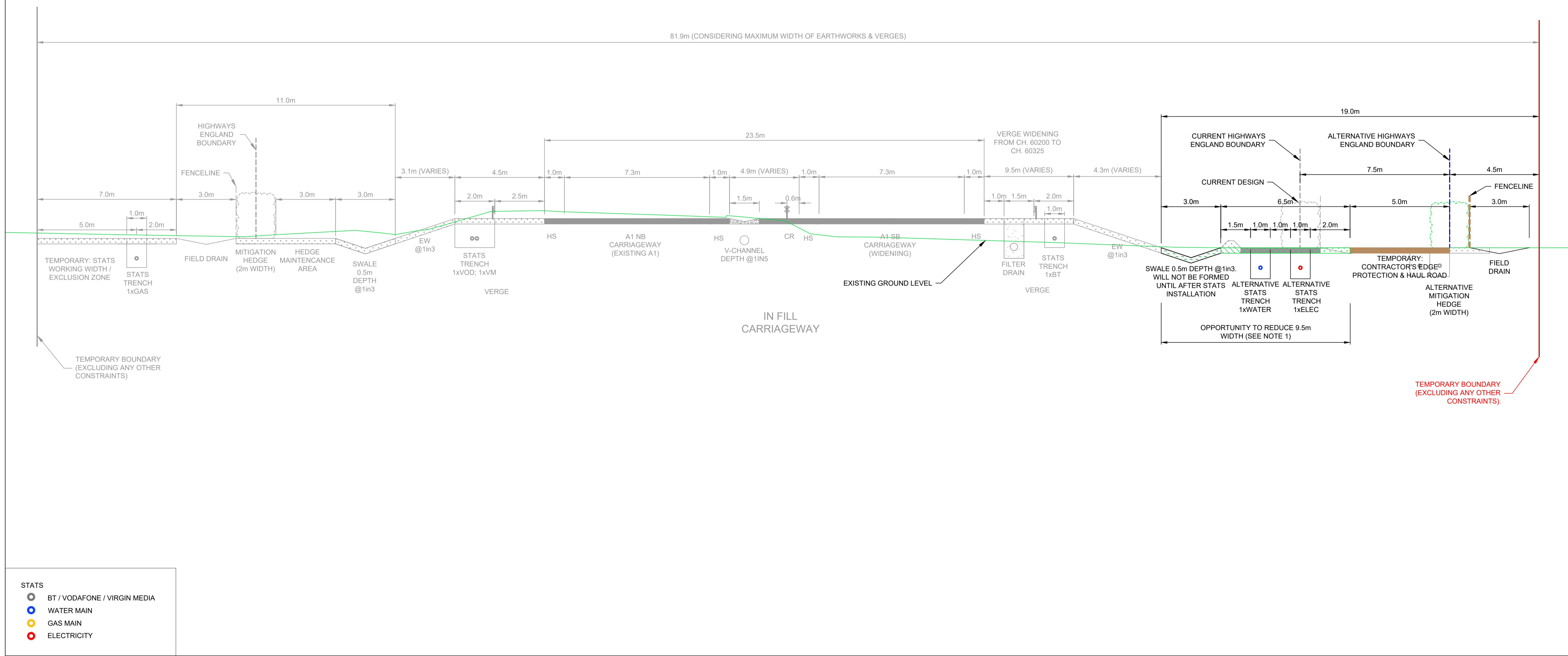
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ONLINE SECTION CH 60+250

DO NOT SCALE

Millimetres

0 10



- STATS**
- BT / VODAFONE / VIRGIN MEDIA
 - WATER MAIN
 - GAS MAIN
 - ELECTRICITY

NOTES:

- OPPORTUNITY TO REDUCE WIDTH AND THUS LAND ACQUISITION DEPENDING ON:
 - CONSTRUCTION SEQUENCING
 - USE OF ROOT BARRIERS
 - FILTER DRAIN INSTEAD OF SWALE
- REQUIREMENT TO PROTECT STAT'S TRENCH AT CROSSOVER LOCATIONS TO BE DETERMINED AT STAGE 5.

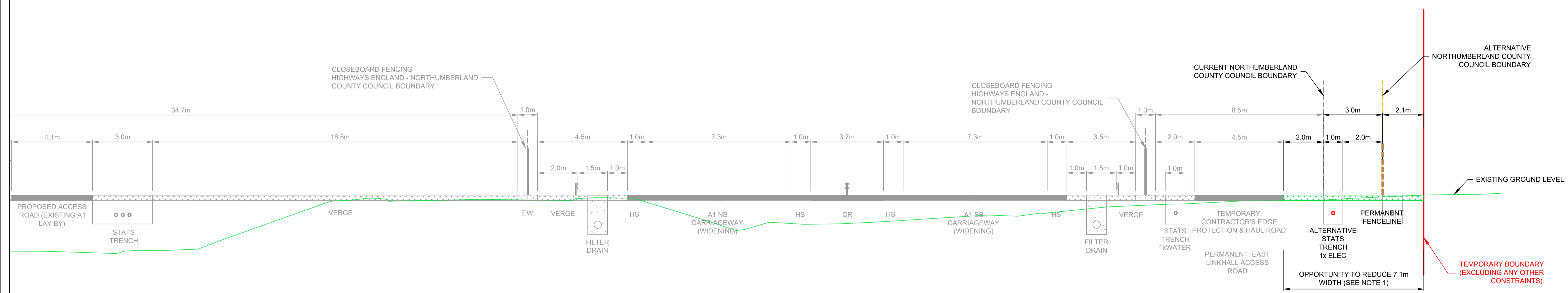
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P01 13/02/20 First Revision Rev. Date Description By Eng' Crk Dis' Crk App'd																	
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ONLINE - PINCH POINT SECTION

CH 59+520

DO NOT SCALE



- STATS**
- BT / VODAFONE / VIRGIN MEDIA
 - WATER MAIN
 - GAS MAIN
 - ELECTRICITY

NOTES:
 1. OPPORTUNITY TO REDUCE WIDTH AND THUS LAND ACQUISITION DEPENDING ON:
 • CONSTRUCTION SEQUENCING
 • USE OF ROOT BARRIERS
 • FILTER DRAIN INSTEAD OF SWALE
 2. REQUIREMENT TO PROTECT STATS TRENCH AT CROSSOVER LOCATIONS TO BE DETERMINED AT STAGE 5.

Rev.	Date	Description	By	Eng' Chk	Dis' Chk	App'd
P01	13/02/20	First Revision		NH	TO	MM

Suitability	For Information	Status	S2	Project Title	A1 in Northumberland Alnwick to Ellingham Scheme					
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Original Size	A1	Date	13/02/20	Date	13/02/20	Date	13/02/20	Date	13/02/20	Date
Drawing Number	HE PIN	Originator	WSP	Volume	HGN	Revision	P01			
Section	A2E	DR	CH	00109	DR	CH	00109	IPW Stage Code	3	

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