

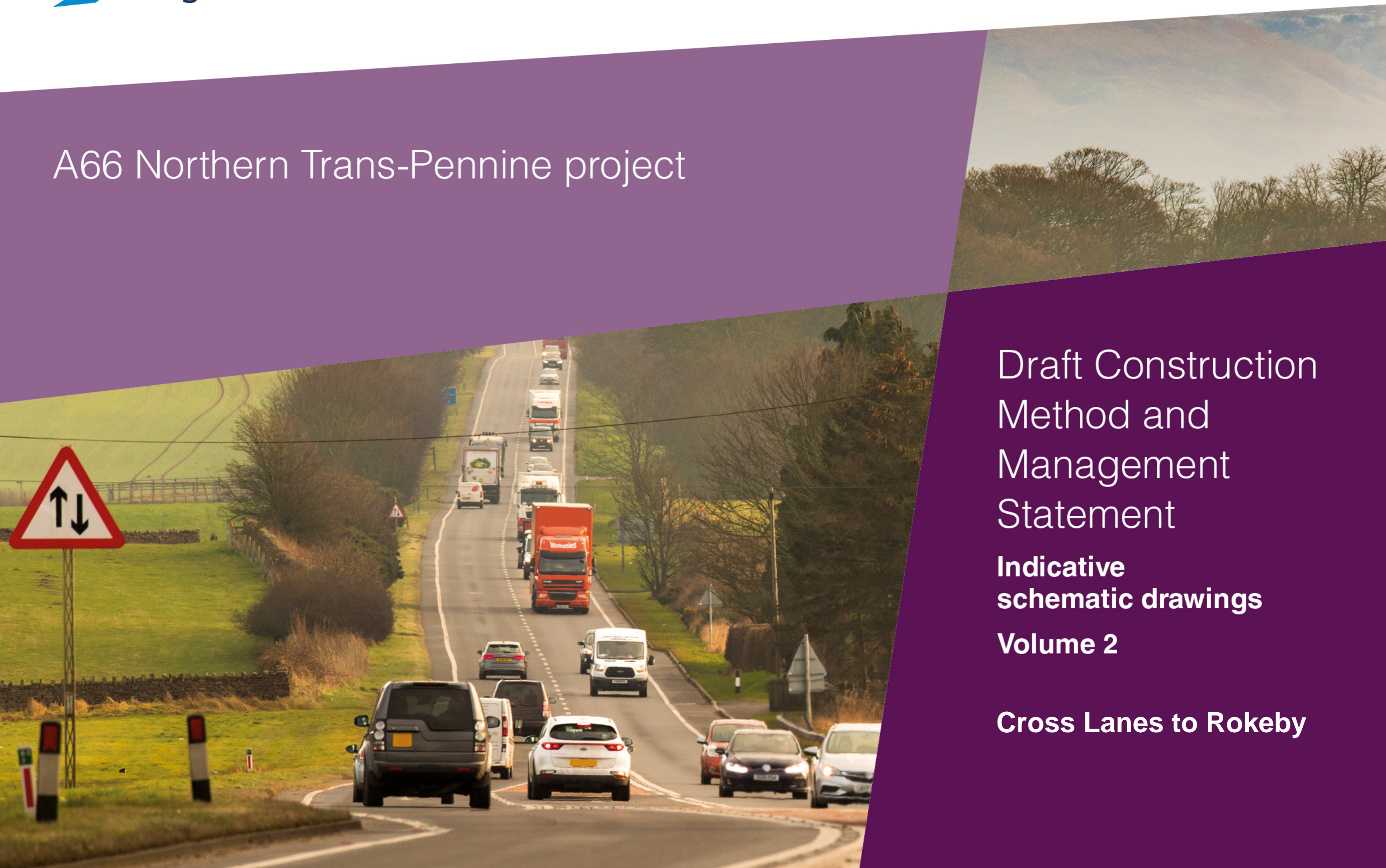
A66 Northern Trans-Pennine project

Draft Construction
Method and
Management
Statement

**Indicative
schematic drawings**

Volume 2

Cross Lanes to Rokeby



A66 - Key Proposed Construction Activities (Phase 1 Works)

Legend

- Roads open & in public use
- Construction Work Area Phase 1
- Construction Work Area Phase 2

Traffic Management for construction works

Traffic will be diverted to enable works to take place with traffic management in use.

Construction works - New carriageway

With traffic diverted on the eastbound carriageway, works can take place on modifying and widening the westbound carriageway to suit the new road alignment. This will involve changes to the existing carriageway and widening works. Material excavated will be transported to local stockpile areas for reuse, with imported material brought in for the works. Kerbs and drainage will be installed, followed by aggregate and asphalt being compacted in layers to form the new road. The works will be undertaken away from live traffic with traffic management in place, to minimise disruption to the A66 traffic.

Construction works - Overbridge

The overbridge has been designed with sufficient working widths to enable the construction of the abutment whilst A66 traffic is maintained. Once complete it will help reduce vehicle movements turning, helping to improve traffic flows. The remaining part of the bridge will be constructed as part of the next phases of works, including the deck.

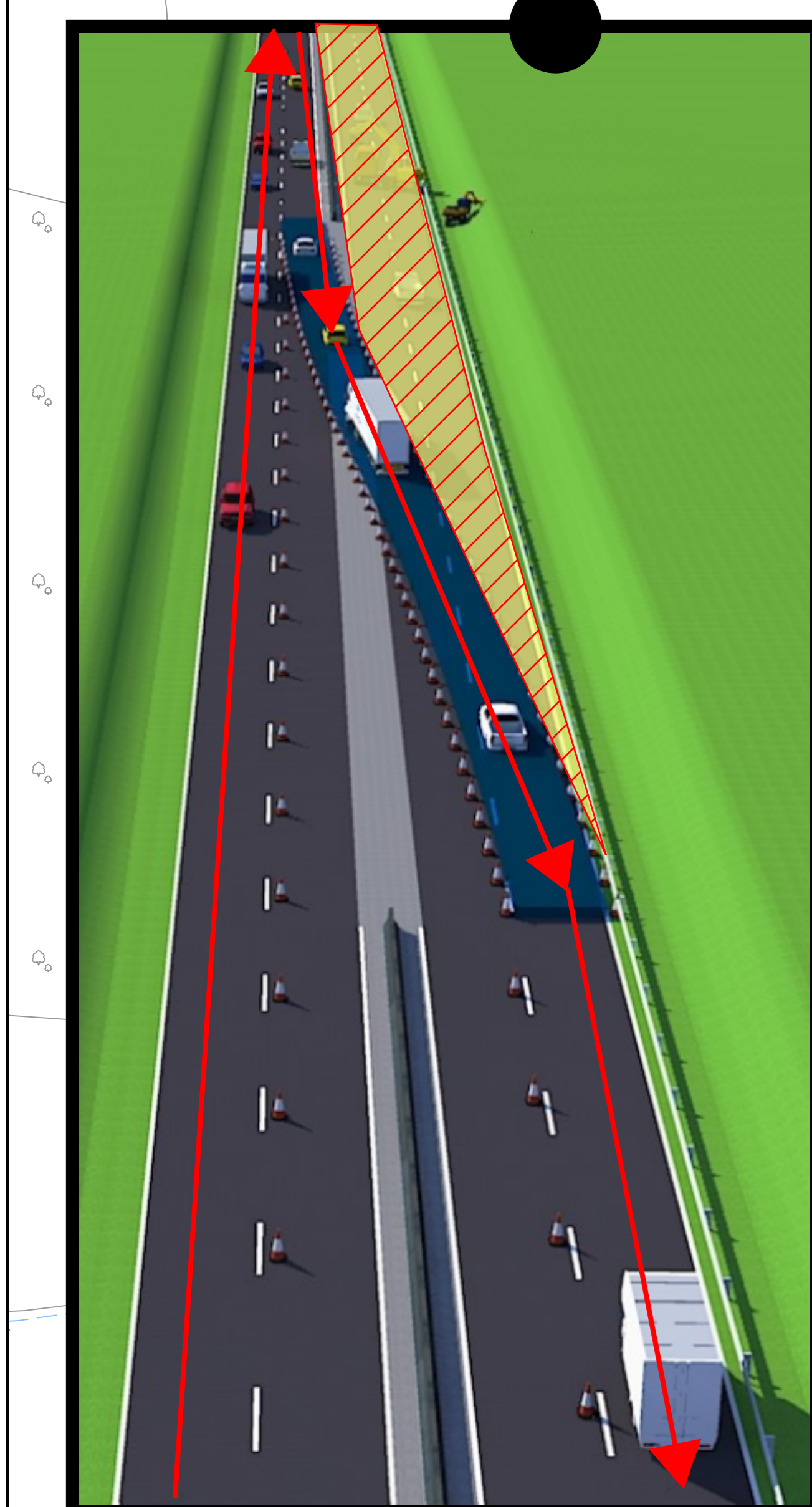
Construction works - Embankment

The embankment will be constructed from suitably selected fill materials, compacted in layers when complete the access road constructed. Drainage and kerbs will be followed by aggregate and asphalt being installed in layers to complete the new road surface.

Construction works - New road and upgrade works

Whilst the existing road remains operational, the new access roads will be constructed where possible, excluding the final connection elements. This will involve new kerbs, drainage and aggregate / asphalt material that is compacted in layers to form the new road. For some elements of work including the connection, additional traffic management is likely to be required.

Important - Some features shown on this drawing may be different from those shown in the Maps Books. The purpose of the drawings highlight elements of the construction works and where discrepancies with the Map Books exist, the Map Book versions should be regarded as showing the preliminary design.



RESIDUAL DESIGN HAZARDS
 (The following information has been collected from Preconstruction Information and the Amey Arup DJV CDM Hazard Management Process.)

- NOTES**
- All levels are in metres above Ordnance Datum.
 - All dimensions are in metres unless otherwise stated.
 - This drawing is to be read in conjunction with all other relevant drawings and the accompanying technical note HE565627-AMY-HGN-S08-TN-CH-00001.
 - The drainage design is of a sufficient level of detail to advise land take requirements and early stage design feasibility. Further design development to be undertaken.
 - The culvert naming convention is scheme specific for design coordination purposes only. A more detailed naming convention is to be agreed at a later design stage.
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 - Traffic sign faces and locations are indicative only. Traffic signs will be developed at detailed design.
 - Boundary treatments, such as fencing, are subject to agreement with landowners and detailed design.
 - Proposed walking, cycling and horse riding routes are indicative only and subject to agreement with local authority and landowners.
 - A high level assessment of technology requirements has been completed, with allowance made in the red line boundary for any new installations.

- KEY**
- Green line boundary
 - Existing layout
 - Existing watercourse
 - Proposed layout
 - Highway structure
 - Culvert
 - Cut-off drain
 - Filter Drain
 - Proposed boundary treatment
 - Proposed gate
 - Traffic sign
 - Proposed lighting column
 - Proposed vehicle restraint system
 - Headwall
 - Pipe to Outfall
 - Earthworks
 - Pond
 - Proposed Bridleway
 - Abandoned Bridleway
 - Existing Bridleway
 - Proposed Footway/Footpath
 - Abandoned Footway/Footpath
 - Existing Footway/Footpath
 - Proposed Shared Cycle Footway
 - Abandoned Shared Cycle Footway
 - Existing Shared Cycle Footway
 - Farm Track/Access
 - Compound/Storage Area
 - Demolished buildings
 - AONB
 - Potential Environmental Mitigation

Revision	Created	Checked	Reviewed	Approved	Authorised
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Project Name
 A66 Northern Trans-Pennine

Drawing Title
 Scheme 8: Cross Lanes to Rokeby
 Black Option
 General Arrangement
 Sheet 1 of 5

Project Ref. No. Stage Scale: 1:1000 @ A0
 --- PCF3 Dimensions: M

Project	Originator	Volume	Location	Type	Role	Number
HE565627 - AMY - HGN -	---	---	S08	-DR-CH-	600001	---

A66 - Key Proposed Construction Activities (Phase 1 Works)

Legend

- Roads open & in public use
- Construction Work Area Phase 1
- Construction Work Area Phase 2

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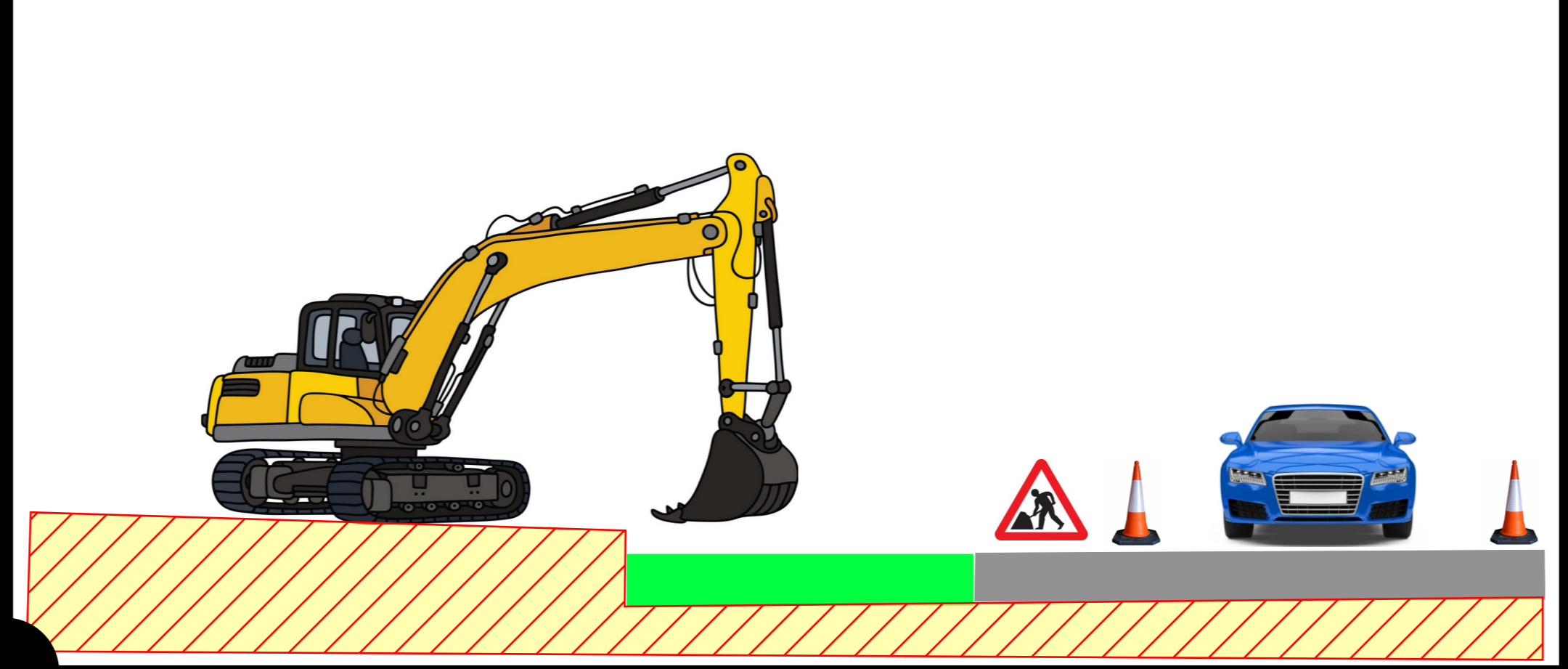
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- ACNB
- Potential Environmental Mitigation

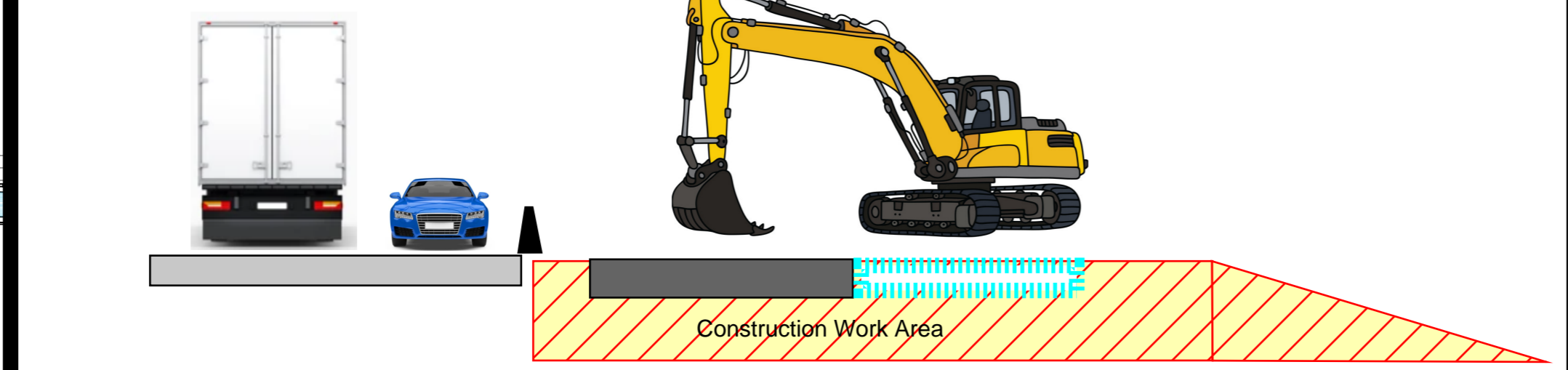
Construction works - Additional widening of A66

To enable the new A66 to be constructed safely away from live traffic, local construction of the east bound carriageway will be necessary. This will be undertaken, at this location, by moving the traffic to the Westbound carriageway and constructing the localised widening. Traffic will then be moved to the Eastbound carriageway so the westbound can be constructed.



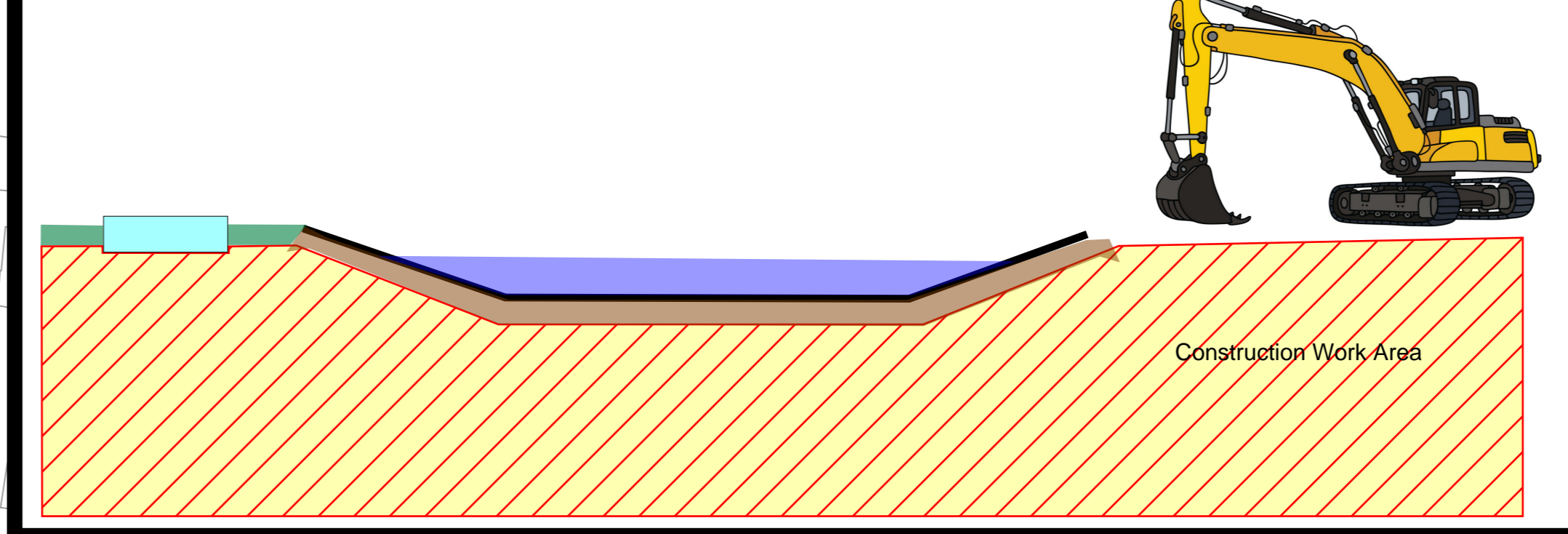
Construction works - New carriageway

With the localised widening completed and traffic diverted to the eastbound carriageway, works can take place on modifying and widening the westbound carriageway to suit the new road alignment. This will involve changes to the existing carriageway and widening works. Material excavated will be transported to local stockpile areas for reuse, with imported material brought in for the works. Kerbs and drainage will be installed, followed by aggregate and asphalt being compacted in layers to form the new road. The works will look to be undertaken away from live traffic with traffic management in place, to minimise disruption to the A66 traffic.



Construction works - Attenuation pond

To help manage groundwater on the scheme and mitigate the impacts of surface run-off overloading the existing drainage network, attenuation ponds are required. They will be constructed with minimal impacts on the live A66 and will further help biodiversity within the local area. Plant machinery will be used to excavate and line the attenuation pond.



Revision	Created	Checked	Reviewed	Approved	Authorised
---	---	---	---	---	---

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Project Name
 A66 Northern Trans-Pennine

Drawing Title
 Scheme 8: Cross Lanes to Rokeby
 Black Option
 General Arrangement
 Sheet 2 of 5

Project Ref. No. Stage Scale: 1:1000 @ A0
 --- PCF3 Dimensions: M

Drawing Number
 Project | Originator | Volume |
 HE565627 - AMY - HGN - |
 S08 -DR-CH- 600002
 Location | Type | Role | Number

Suitability	Suitability Description	Revision
S0	Initial non-contractual code	P02.1

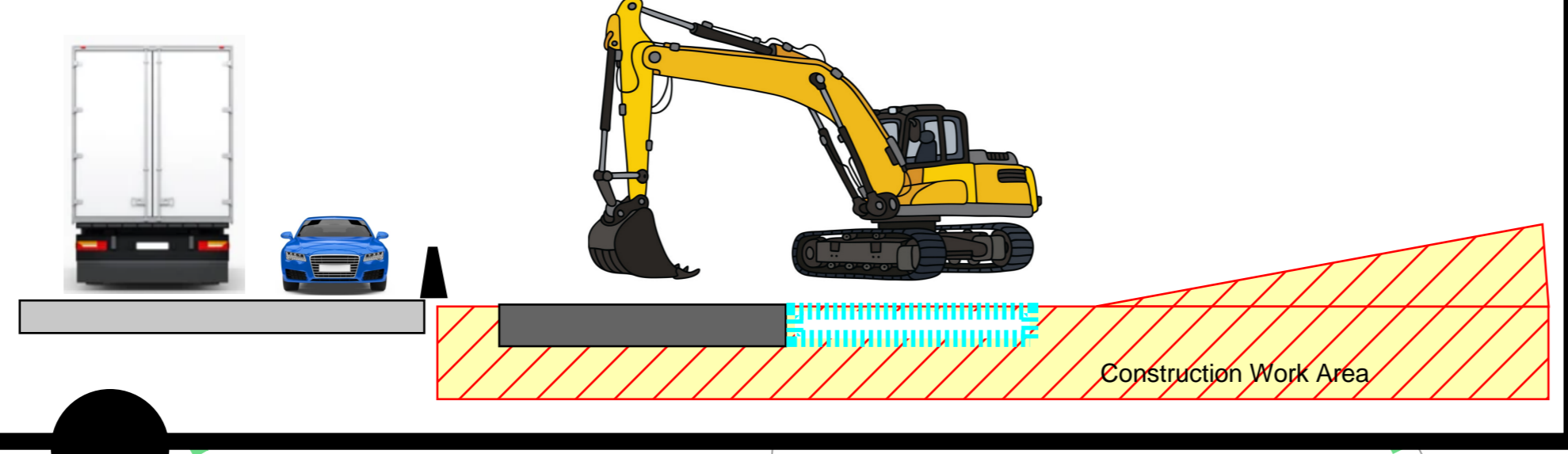
A66 - Key Proposed Construction Activities (Phase 1 Works)

Legend

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- Construction Work Area Phase 1
- Construction Work Area Phase 2

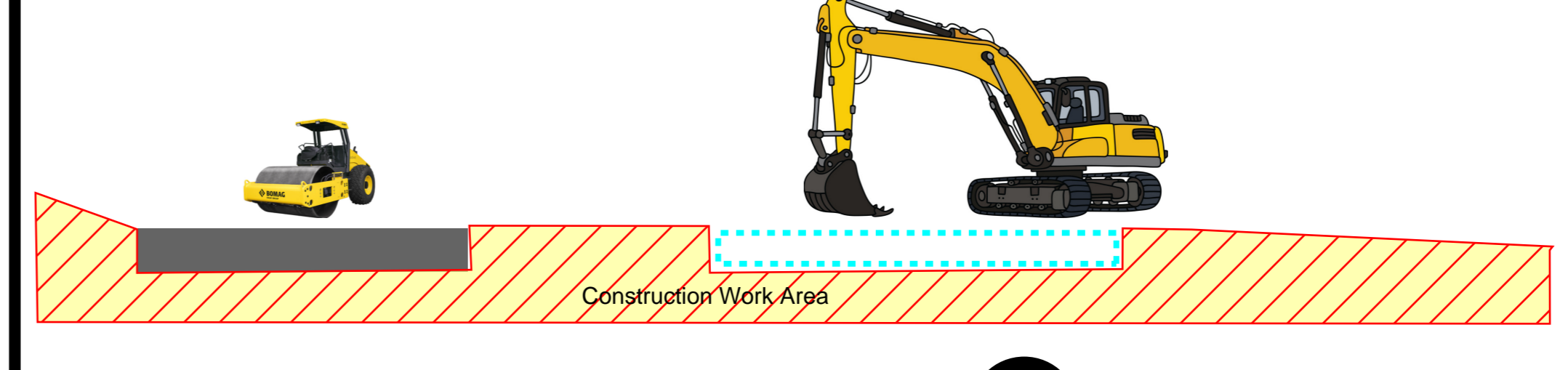
Construction works - New carriageway

With traffic diverted on the eastbound carriageway, works can take place on modifying and widening the westbound carriageway to suit the new road alignment. This will involve changes to the existing carriageway and widening works. Material excavated will be transported to local stockpile areas for reuse, with imported material brought in for the works. Kerbs and drainage will be installed, followed by aggregate and asphalt being compacted in layers to form the new road. The works will look to be undertaken away from live traffic with traffic management in place, to minimise disruption to the A66 traffic.



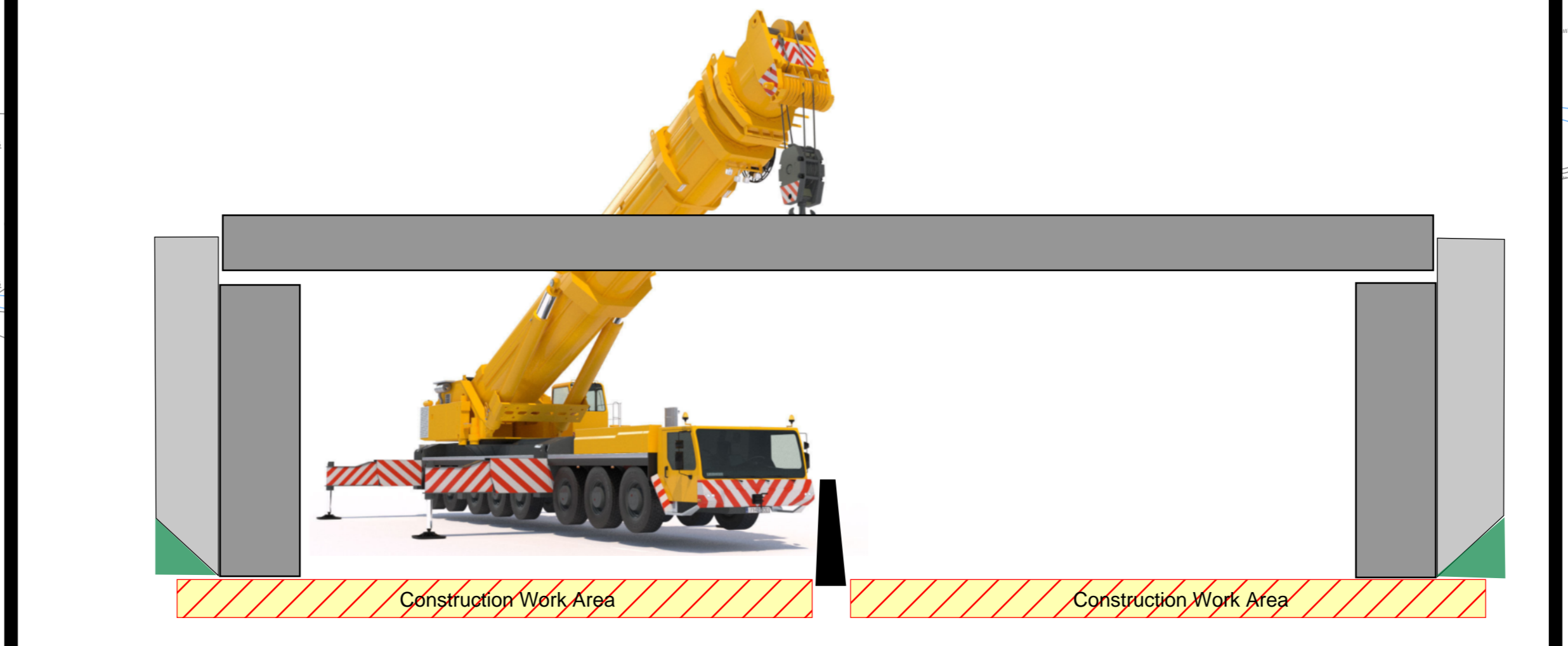
Construction works - New carriageway construction

With traffic maintained on the existing A66 route, construction works can take place on the new carriageway. Material will be excavated from the works location and moved to stockpile locations on the project. Material will be moved via eight wheel wagons or dump trucks with suitable routes established to minimise disruption to the A66. The new road will be constructed from imported stone and asphalt material, with kerbs and drainage also being installed to complete the new road.



Construction works - Overbridge Construction

As the new overbridge is well away from the existing A66 both abutments and the deck can be constructed in one phase of works, minimising disruption to local traffic. With the existing roads location, it is likely that the bridge beams can be installed with limited additional traffic management.



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 - Compound/Storage Area
 - Demolished buildings
 - ACNB
 - Potential Environmental Mitigation

ISSUED FOR MODEL FREEZE D	---	---	---	---	---
SHOT	SHOT	THAL	RPEA	---	---
18/02/21	18/02/21	18/02/21	18/02/21	---	---
UPDATED FOR MODEL FREEZE E	---	---	---	---	---
P02.1	---	---	---	---	---
Revision	Created	Checked	Reviewed	Approved	Authorised
---	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy

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highways england

Project Name
A66 Northern Trans-Pennine

Drawing Title
**Scheme 8: Cross Lanes to Rokeby
 Black Option
 General Arrangement
 Sheet 3 of 5**

Project Ref. No. Stage Scale: 1:1000 @ A0
 --- PCF3 Dimensions: M

Drawing Number
 Project | Originator | Volume |
 HE565627 - AMY - HGN -
 S08 -DR-CH- 600003
 Location | Type | Role | Number

Suitability	Suitability Description	Revision
S0	Initial non-contractual code	P02.1

A66 - Key Proposed Construction Activities (Phase 1 Works)

Legend

- Roads open & in public use
- Construction Work Area Phase 1
- Construction Work Area Phase 2

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 - Existing Shared Cycle Footway
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Construction works - New access route

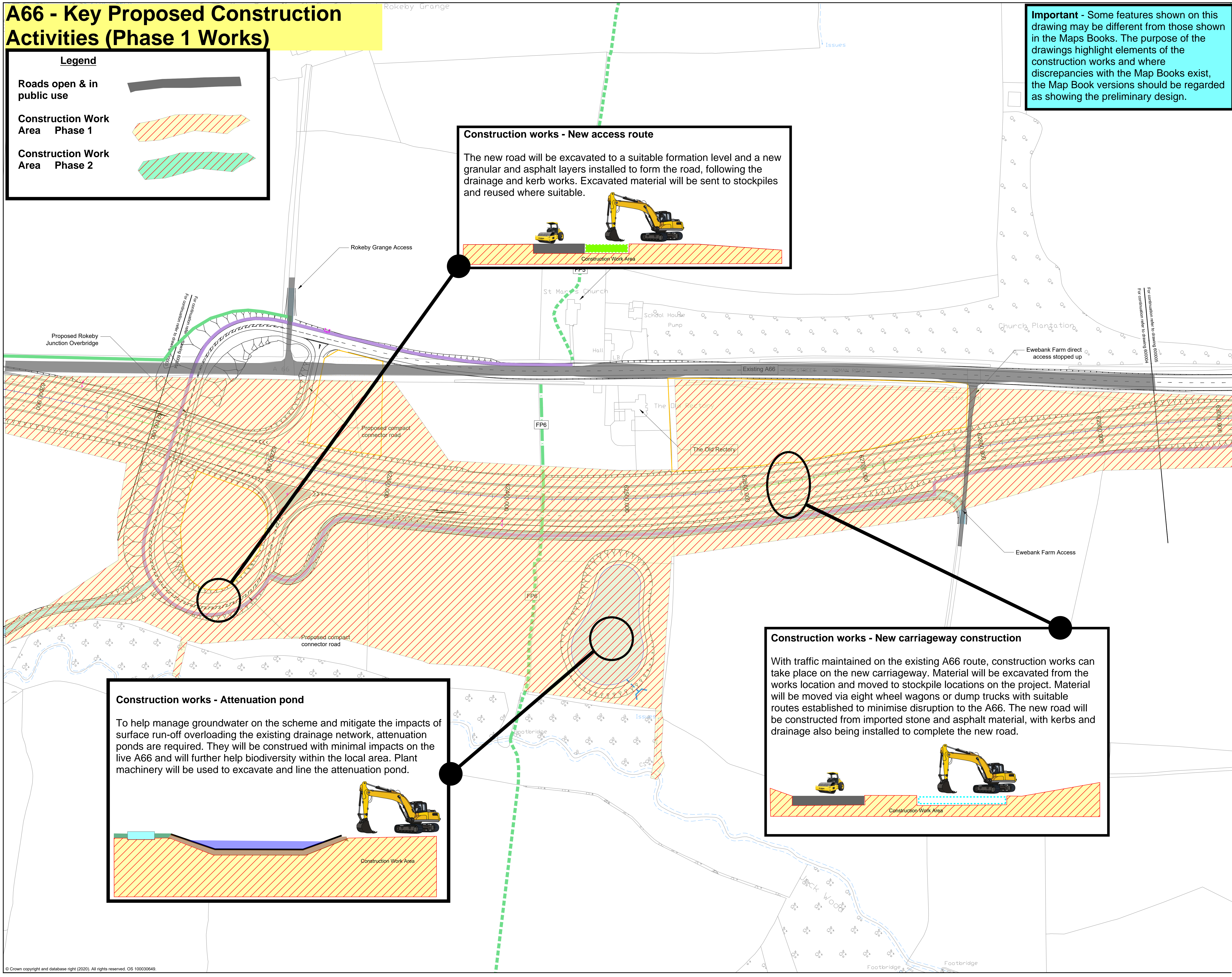
The new road will be excavated to a suitable formation level and a new granular and asphalt layers installed to form the road, following the drainage and kerb works. Excavated material will be sent to stockpiles and reused where suitable.

Construction works - New carriageway construction

With traffic maintained on the existing A66 route, construction works can take place on the new carriageway. Material will be excavated from the works location and moved to stockpile locations on the project. Material will be moved via eight wheel wagons or dump trucks with suitable routes established to minimise disruption to the A66. The new road will be constructed from imported stone and asphalt material, with kerbs and drainage also being installed to complete the new road.

Construction works - Attenuation pond

To help manage groundwater on the scheme and mitigate the impacts of surface run-off overloading the existing drainage network, attenuation ponds are required. They will be constructed with minimal impacts on the live A66 and will further help biodiversity within the local area. Plant machinery will be used to excavate and line the attenuation pond.



ISSUED FOR MODEL FREEZE D	SHOT	THAL	RPEA	---
18/02/21	18/02/21	18/02/21	18/02/21	---
UPDATED FOR MODEL FREEZE E	---	---	---	---
---	---	---	---	---

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Project Name
A66 Northern Trans-Pennine

Drawing Title
**Scheme 8: Cross Lanes to Rokeby
 Black Option
 General Arrangement
 Sheet 4 of 5**

Project Ref. No. Stage Scale: 1:1000 @ A0
 --- PCF3 Dimensions: M

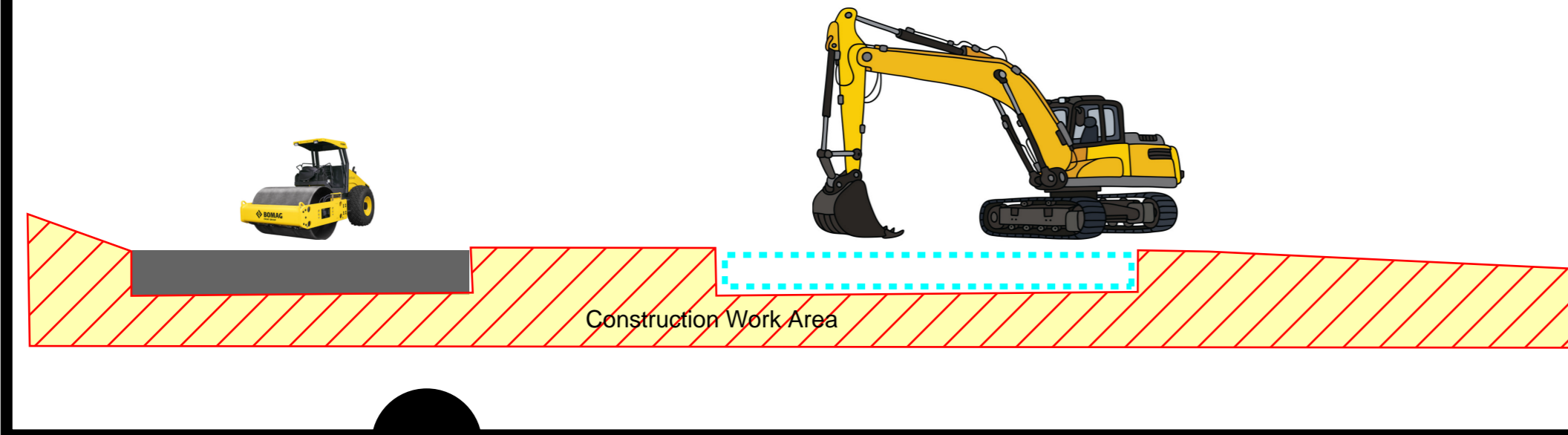
Drawing Number
 Project | Originator | Volume |
 HE565627 - AMY - HGN - |
 S08 - DR - CH - 600004
 Location | Type | Role | Number

Suitability	Suitability Description	Revision
S0	Initial non-contractual code	P02.1

A66 - Key Proposed Construction Activities (Phase 1 Works)

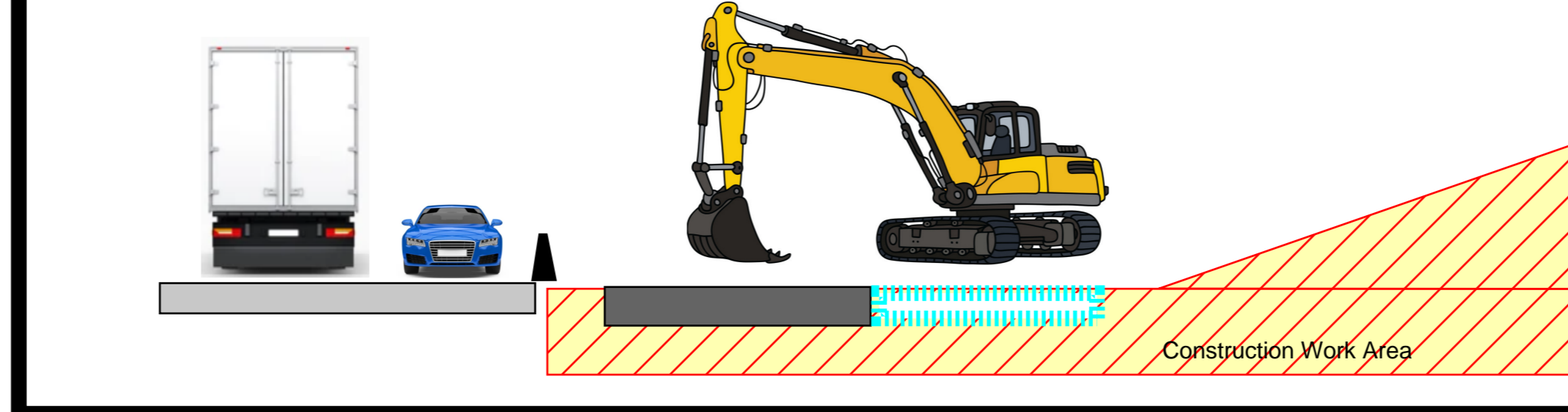
Construction works - New carriageway construction

With traffic maintained on the existing A66 route, construction works can take place on the new carriageway. Material will be excavated from the works location and moved to stockpile locations on the project. Material will be moved via eight wheel wagons or dump trucks with suitable routes established to minimise disruption to the A66. The new road will be constructed from imported stone and asphalt material, with kerbs and drainage also being installed to complete the new road.



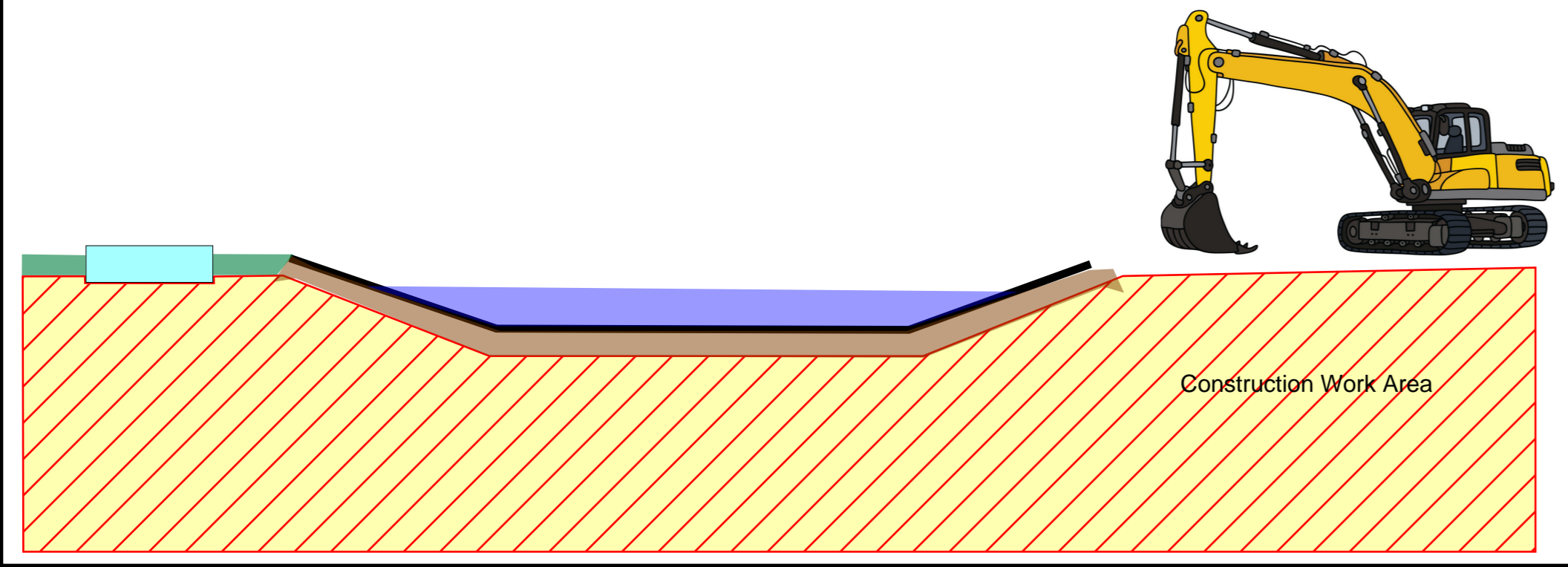
Construction works - New carriageway

With traffic diverted on the eastbound carriageway, works can take place on modifying and widening the westbound carriageway to suit the new road alignment. This will involve changes to the existing carriageway and widening works. Material excavated will be transported to local stockpile areas for reuse, with imported material brought in for the works. Kerbs and drainage will be installed, followed by aggregate and asphalt being compacted in layers to form the new road. The works will look to be undertaken away from live traffic with traffic management in place, to minimise disruption to the A66 traffic.



Construction works - Attenuation pond

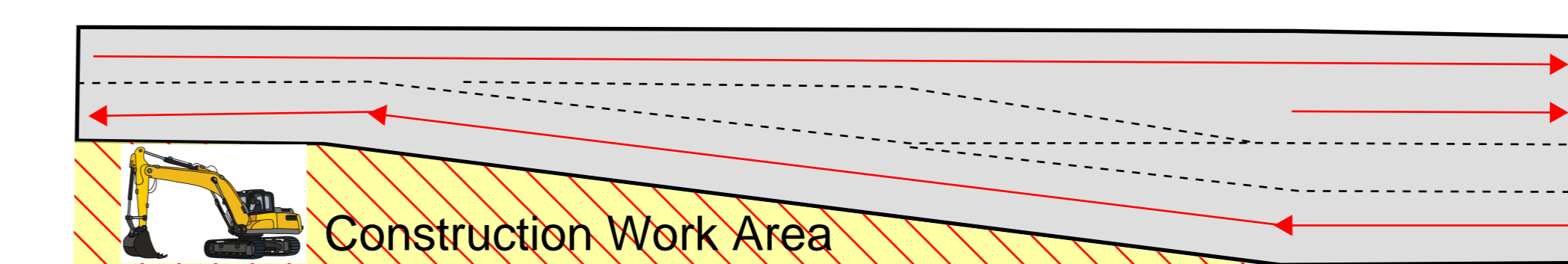
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Traffic management for construction works

Traffic will managed by the traffic management to enable works to take place safely.



Legend

- Roads open & in public use
- Construction Work Area Phase 1
- Construction Work Area Phase 2

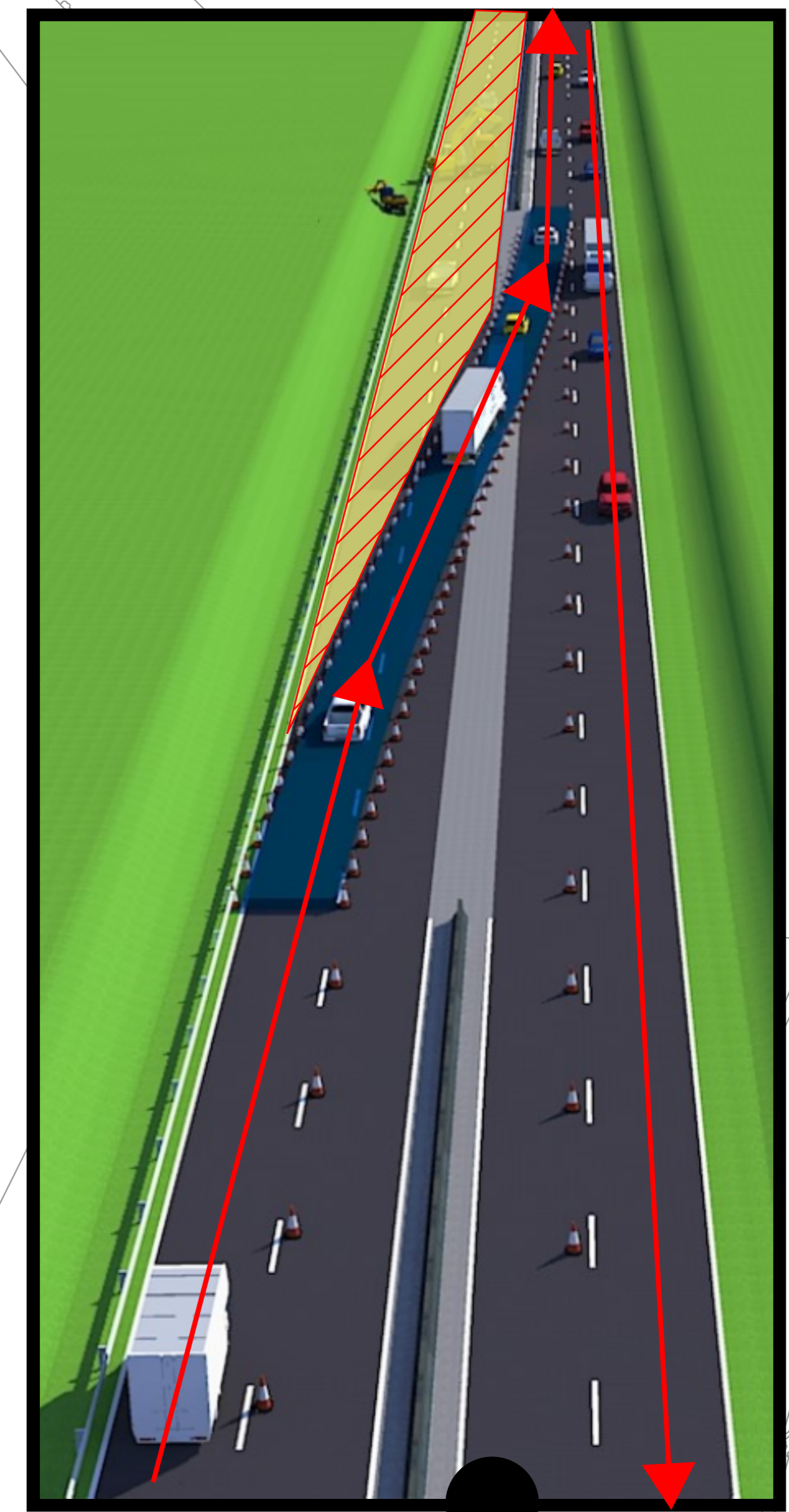
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...
P01	ISSUED FOR MODEL FREEZE D	SHOT	THAL	RPEA	...
		18/02/21	18/02/21	18/02/21	...
P02.1	UPDATED FOR MODEL FREEZE E
Revision	Created	Checked	Reviewed	Approved	Authorised
	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy

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Project Name
A66 Northern Trans-Pennine

Drawing Title
Scheme 8: Cross Lanes to Rokeby Black Option General Arrangement Sheet 5 of 5

Project Ref. No. Stage Scale: 1:1000 @ A0
 --- PCF3 Dimensions: M

Drawing Number
 Project | Originator | Volume |
HE565627 - AMY - HGN -
S08 -DR-CH- 600005
 Location | Type | Role | Number

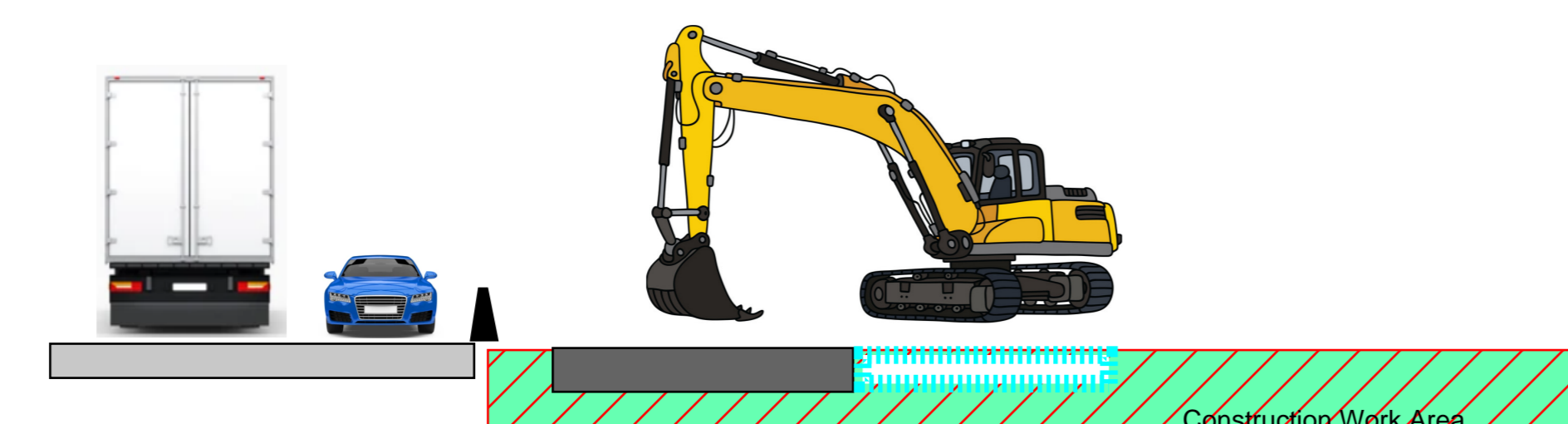
Suitability | Suitability Description | Revision
 S0 Initial non-contractual code P02.1

A66 - Key Proposed Construction Activities (Phase 2 Works)

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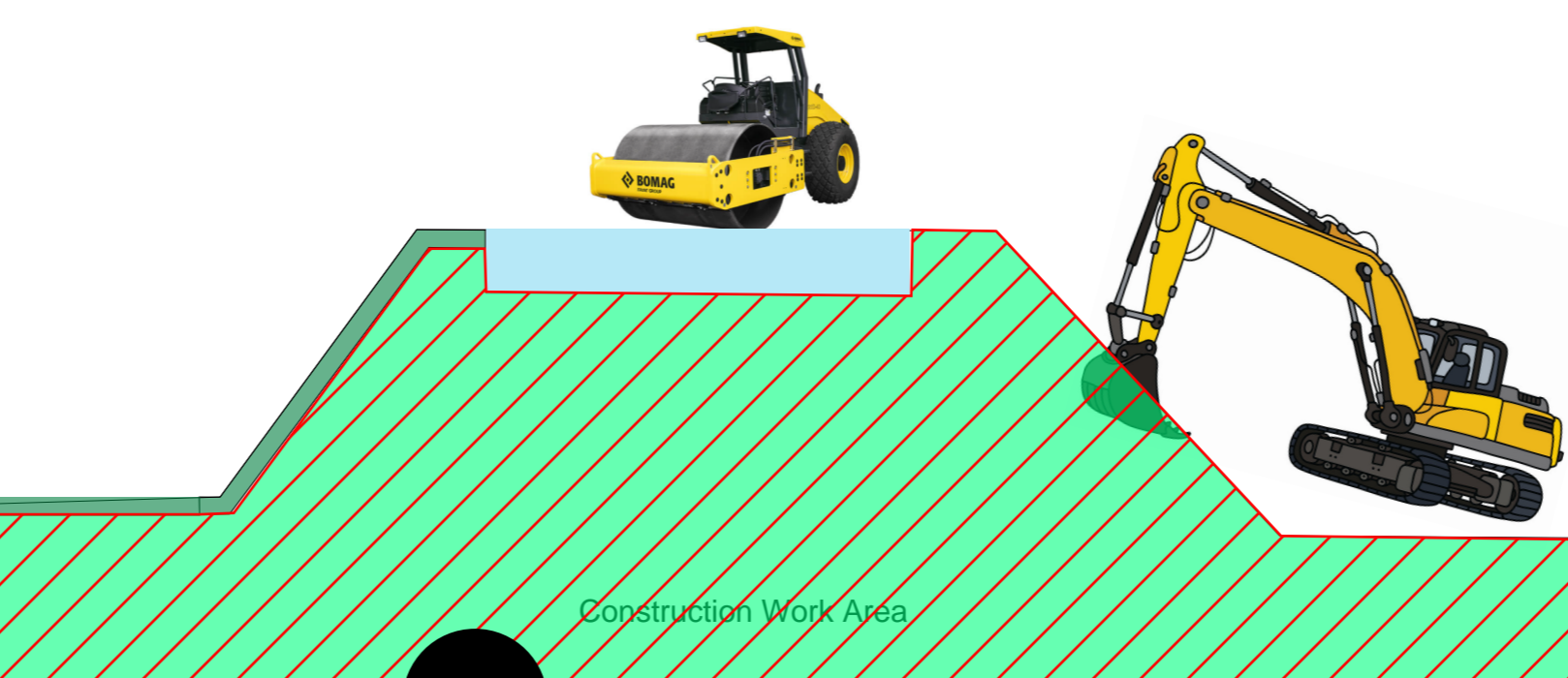
Construction works - New carriageway

With traffic diverted on the westbound carriageway, works can take place on modifying and widening the eastbound carriageway to suit the new road alignment. This will involve changes to the existing carriageway and widening works. Excavated material will be transported to local stockpile areas for reuse, with imported aggregate and asphalt material brought in for the works. Kerbs and drainage will be installed, followed by the new road being constructed.



Construction works - Embankment

The access road will help mitigate movements across the A66 once complete. The embankment will be constructed in layers from suitably selected fill materials. Kerbs and drainage will then be installed, followed by the new road consisting of aggregate and asphalt.

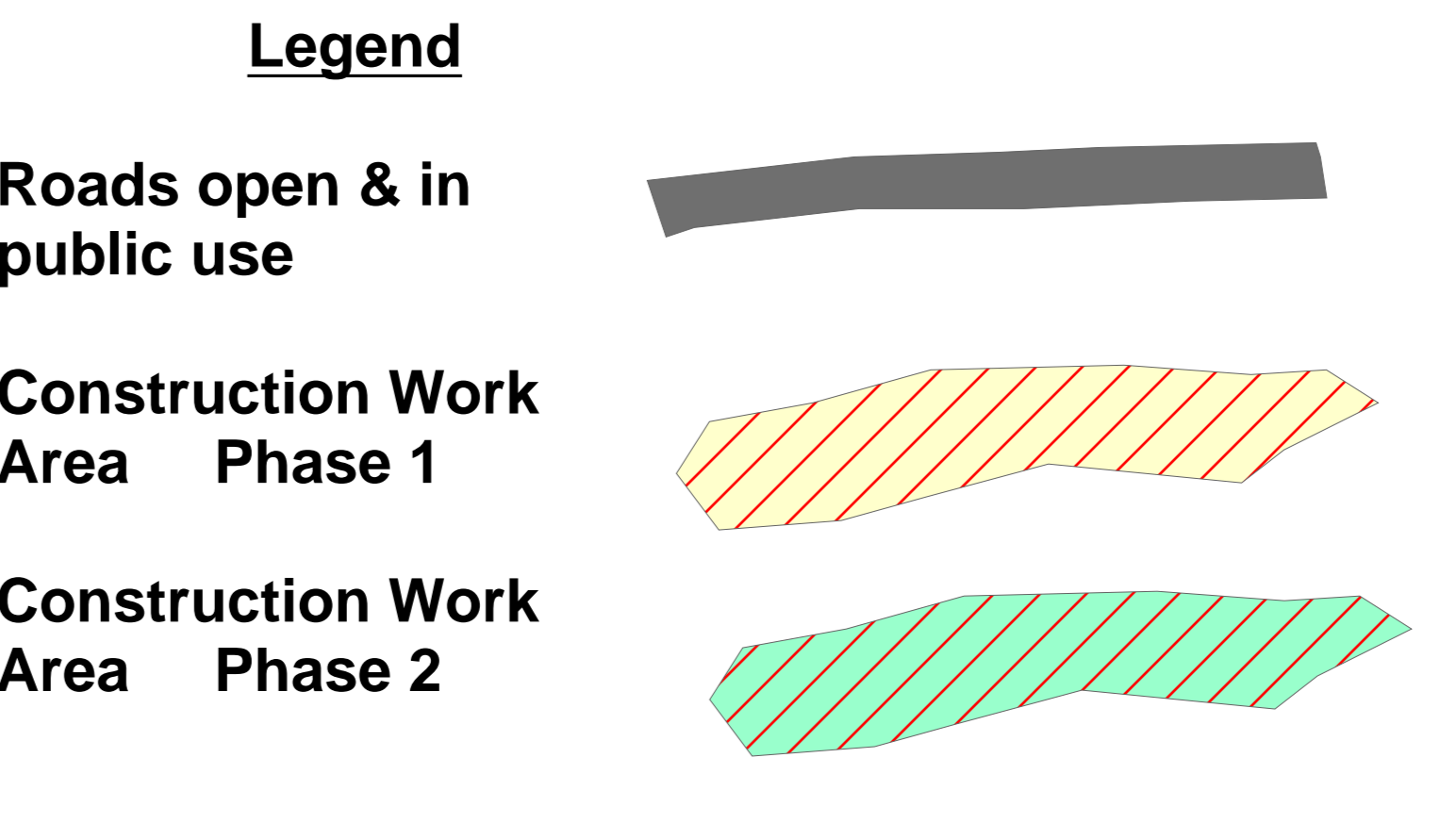


Legend

Roads open & in public use

Construction Work Area Phase 1

Construction Work Area Phase 2



RESIDUAL DESIGN HAZARDS

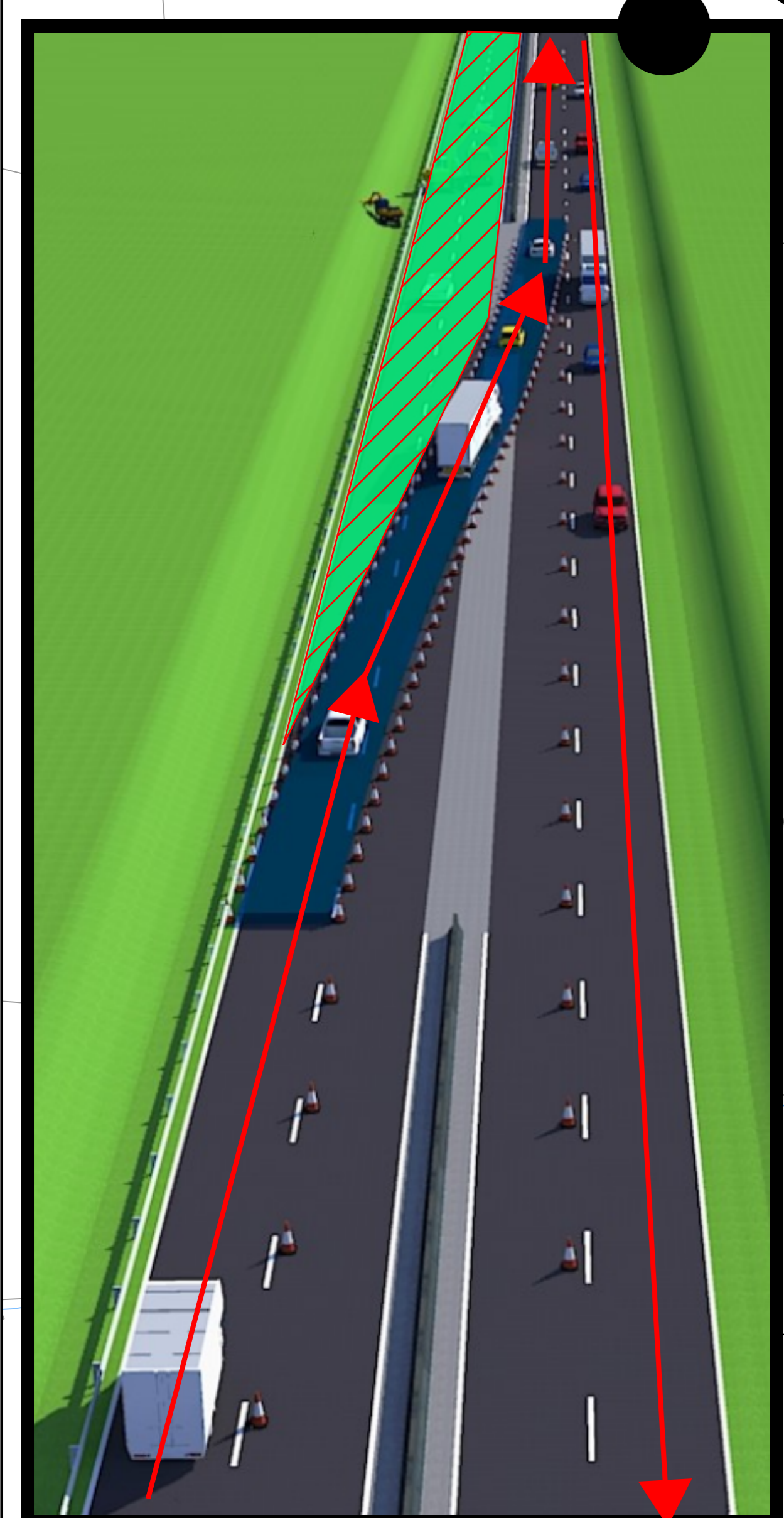
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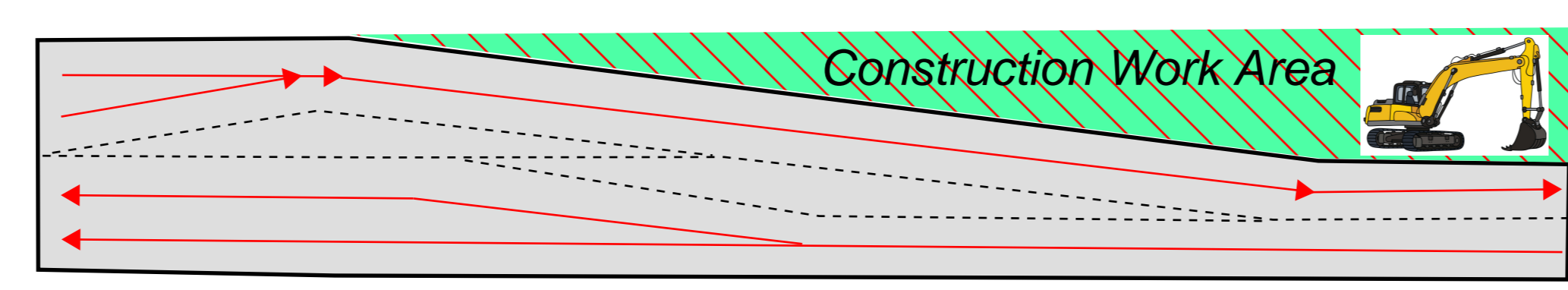
KEY

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- Existing layout
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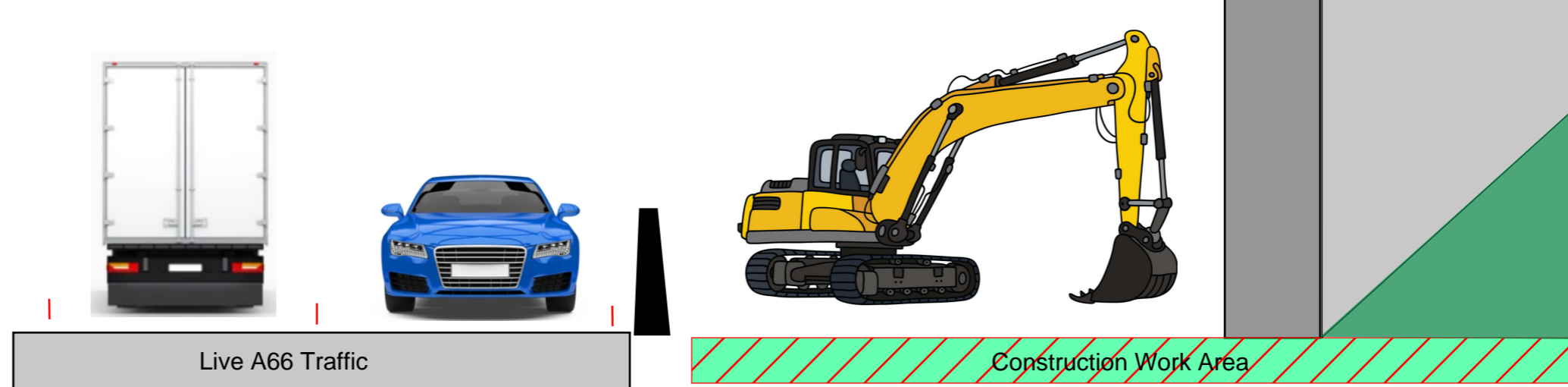
Traffic management for construction works

Traffic will be relocated onto part of the new A66 carriageway to enable the remaining works to safely take place.



Construction works - Overbridge


The overbridge has been designed with sufficient working widths to enable the construction of the abutment whilst A66 traffic is maintained.



Live A66 Traffic

Construction Work Area

Traffic management will be required to complete the deck with disruption being minimised. Once in place the road can be installed.



Revision	Created	Checked	Reviewed	Approved	Authorised
P01	18/02/21	18/02/21	18/02/21	18/02/21	---
P02.1	---	---	---	---	---

Designer
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A66 NTP Integrated Project Team

Client
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M1 3BN

highways england

Project Name
A66 Northern Trans-Pennine

Scheme Title
Scheme 8: Cross Lanes to Rokeby
Black Option
General Arrangement
Sheet 1 of 5

Project Ref. No. Stage Scale: 1:1000 @ A0
--- PCF3 Dimensions: M

Drawing Number
Project | Originator | Volume |
HE565627 - AMY - HGN - |
S08 -DR-CH- 600001
Location | Type | Role | Number

Suitability Suitability Description Revision
S0 Initial non-contractual code P02.1

A66 - Key Proposed Construction Activities (Phase 2 Works)

Legend

- Roads open & in public use
- Construction Work Area Phase 1
- Construction Work Area Phase 2

Important - Some features shown on this drawing may be different from those shown in the Maps Books. The purpose of the drawings highlight elements of the construction works and where discrepancies with the Map Books exist, the Map Book versions should be regarded as showing the preliminary design.

Construction works - New carriageway

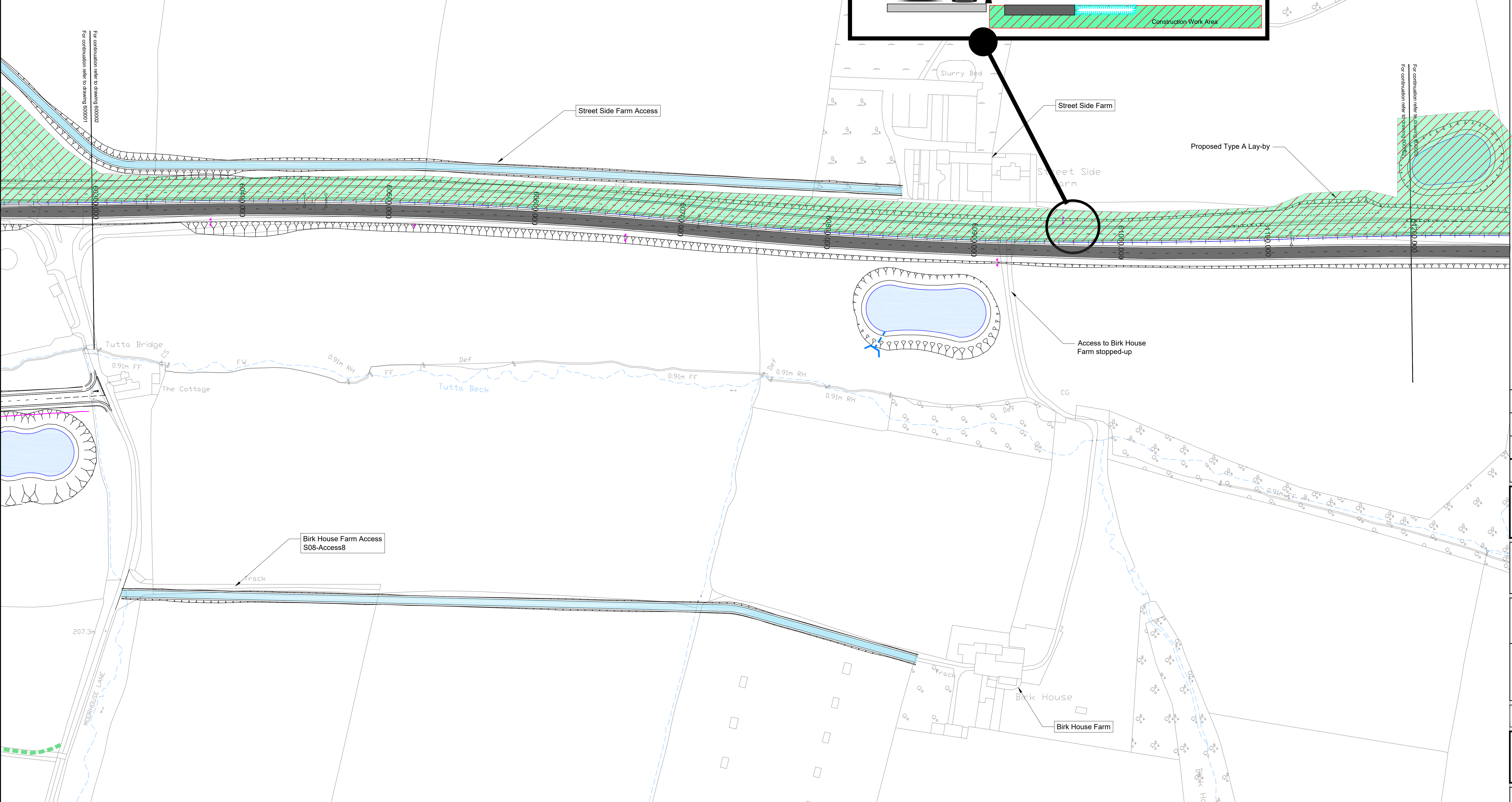
With traffic diverted on the westbound carriageway, works can take place on modifying and widening the eastbound carriageway to suit the new road alignment. This will involve changes to the existing carriageway and widening works. Excavated material will be transported to local stockpile areas for reuse, with imported aggregate and asphalt material brought in for the works. Kerbs and drainage will be installed, followed by the new road being constructed with the aggregate and asphalt.

RESIDUAL DESIGN HAZARDS
 (The following information has been collected from Preconstruction Information and the Amey Arup DJV CDM Hazard Management Process.)

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- Existing Shared Cycle Footway
- Farm Track/Access
- Compound/Storage Area
- Demolished buildings
- AONB
- Potential Environmental Mitigation



ISSUED FOR MODEL FREEZE D	---	---	---	---	---
SHOT	SHOT	THAL	RPEA	---	---
19/02/21	19/02/21	19/02/21	19/02/21	---	---
UPDATED FOR MODEL FREEZE E	---	---	---	---	---
P02.1	---	---	---	---	---

Revision	Created	Checked	Reviewed	Approved	Authorised
---	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy

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Project Name
A66 Northern Trans-Pennine

Drawing Title
**Scheme 8: Cross Lanes to Rokeby
 Black Option
 General Arrangement
 Sheet 2 of 5**

Project Ref. No.	Stage	Scale	@ AD
---	PCF3	1:1000	---
		Dimensions	M

Drawing Number	Project	Originator	Volume	Location	Type	Role	Number
HE565627 - AMY - HGN - S08	---	---	---	---	---	---	---
						-DR-CH-600002	

Suitability	Suitability Description	Revision
S0	Initial non-contractual code	P02.1

A66 - Key Proposed Construction Activities (Phase 2 Works)

Legend

- Roads open & in public use
- Construction Work Area Phase 1
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Construction works - New carriageway

With traffic diverted on the westbound carriageway, works can take place on modifying and widening the eastbound carriageway to suit the new road alignment. This will involve changes to the existing carriageway and widening works. Excavated material will be transported to local stockpile areas for reuse, with imported aggregate and asphalt material brought in for the works. Kerbs and drainage will be installed, followed by the new road being constructed with the aggregate and asphalt.

Construction works - Attenuation pond

To help manage groundwater on the scheme and mitigate the impacts of surface run-off overloading the existing drainage network, attenuation ponds are required. They will be constructed with minimal impacts on the live A66 and will further help biodiversity within the local area. Plant machinery will be used to excavate and line the attenuation pond.

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 10 Furnival Street
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 3 Piccadilly Place
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Project Name
 A66 Northern Trans-Pennine

Drawing Title
 Scheme 8: Cross Lanes to Rokeby
 Black Option
 General Arrangement
 Sheet 3 of 5

Project Ref. No. Stage Scale: 1:1000 @ A0
 --- PCF3 Dimensions: M

Drawing Number
 Project | Originator | Volume |
 HE565627 - AMY - HGN -
 S08 -DR-CH- 600003
 Location | Type | Role | Number

Suitability | Suitability Description | Revision
 S0 Initial non-contractual code P02.1

A66 - Key Proposed Construction Activities (Phase 2 Works)

Legend

- Roads open & in public use
- Construction Work Area Phase 1
- Construction Work Area Phase 2

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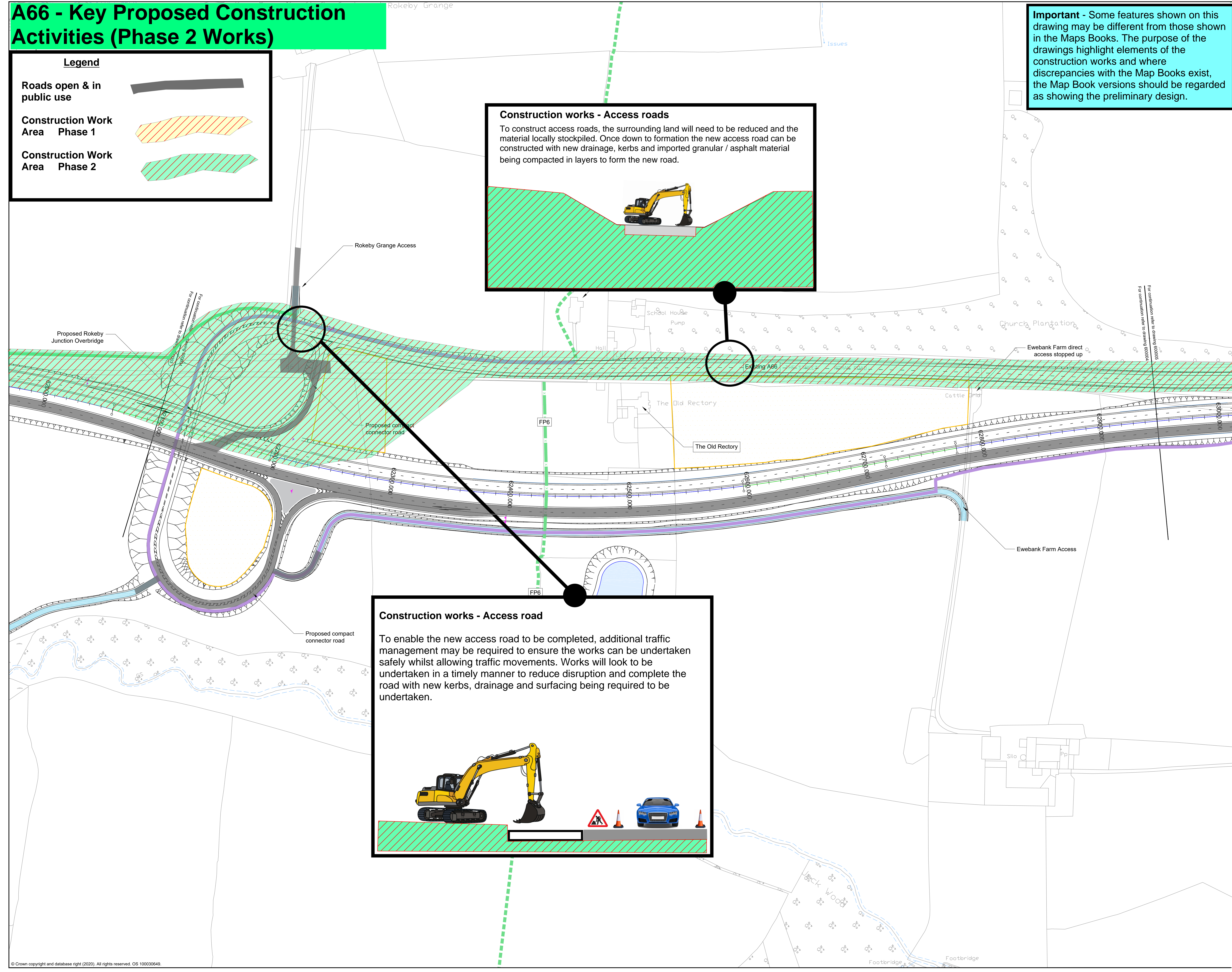
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Construction works - Access roads

To construct access roads, the surrounding land will need to be reduced and the material locally stockpiled. Once down to formation the new access road can be constructed with new drainage, kerbs and imported granular / asphalt material being compacted in layers to form the new road.

Construction works - Access road

To enable the new access road to be completed, additional traffic management may be required to ensure the works can be undertaken safely whilst allowing traffic movements. Works will look to be undertaken in a timely manner to reduce disruption and complete the road with new kerbs, drainage and surfacing being required to be undertaken.



ISSUED FOR MODEL FREEZE D	---	---	---	---	---
SHOT	SHOT	THAL	RPEA	---	---
18/02/21	18/02/21	18/02/21	18/02/21	---	---
UPDATED FOR MODEL FREEZE E					
---	---	---	---	---	---

Designer
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 10 Furnival Street
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Project Name
A66 Northern Trans-Pennine

Drawing Title
Scheme 8: Cross Lanes to Rokeby Black Option General Arrangement Sheet 4 of 5

Project Ref. No. Stage Scale: 1:1000 @ A0
 --- PCF3 Dimensions: M

Drawing Number
 Project | Originator | Volume |
 HE565627 - AMY - HGN - |
 S08 -DR-CH- 600004
 Location | Type | Role | Number

Suitability	Suitability Description	Revision
S0	Initial non-contractual code	P02.1

A66 - Key Proposed Construction Activities (Phase 2 Works)

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Construction works - New carriageway

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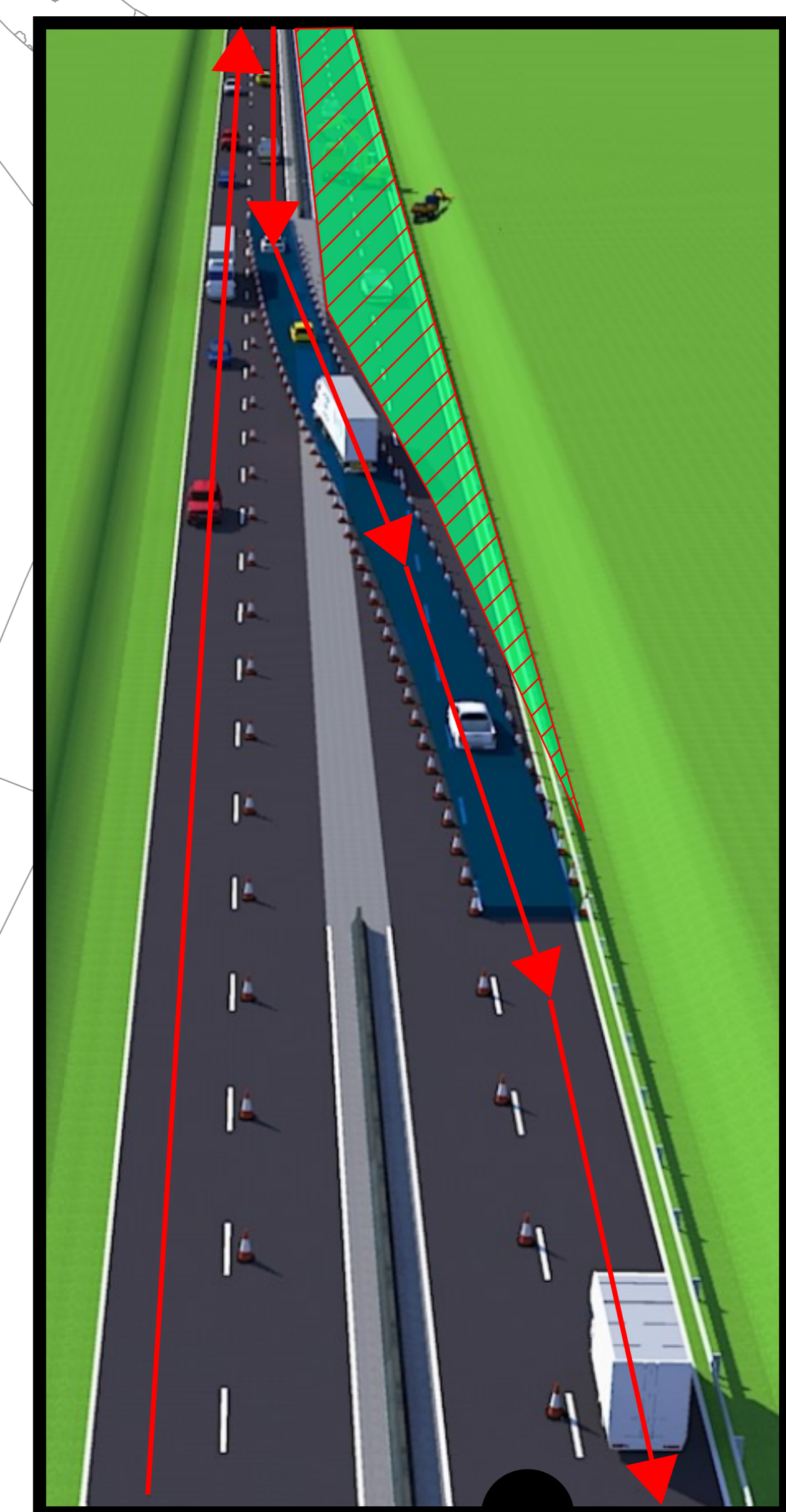
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Traffic management for construction works

The A66 will be re-routed using the traffic management to enable works to take place safely.

...
P01	ISSUED FOR MODEL FREEZE D	SHOT	THAL	RPEA	...
		18/02/21	18/02/21	18/02/21	...
P02.1	UPDATED FOR MODEL FREEZE E
Revision	Created	Checked	Reviewed	Approved	Authorised
	d8mmjy	d8mmjy	d8mmjy	d8mmjy	d8mmjy

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Project Name
A66 Northern Trans-Pennine

Drawing Title
Scheme 8: Cross Lanes to Rokeby Black Option General Arrangement Sheet 5 of 5

Project Ref. No. Stage Scale: 1:1000 @ A0
 --- PCF3 Dimensions: M

Drawing Number
 Project | Originator | Volume |
HE565627 - AMY - HGN -
S08 -DR-CH- 600005
 Location | Type | Role | Number

Suitability | Suitability Description | Revision
 S0 Initial non-contractual code P02.1