

A66 Northern Trans-Pennine project

Draft Construction
Method and
Management
Statement

**Indicative
schematic drawings**

Volume 2

Bowes Bypass

A66 - Key Proposed Construction Activities (Phase 1 Works)

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.
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 - This drawing is to be read in conjunction with all other relevant drawings and the accompanying technical note HE565627-AMY-HGN-S07-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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 - A high level assessment of technology requirements has been completed, with allowance made in the red line boundary for any new installations.

- KEY**
- Red line boundary
 - Existing layout
 - Existing watercourse
 - Proposed layout
 - Highway structure
 - Culvert
 - Cut-off drain
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 - Proposed gate
 - Traffic sign
 - Proposed lighting column
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 - Proposed Shared Cycle Footway
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 - Compound/Storage Area
 - Demolished buildings
 - ACNB

Construction works - New carriageway

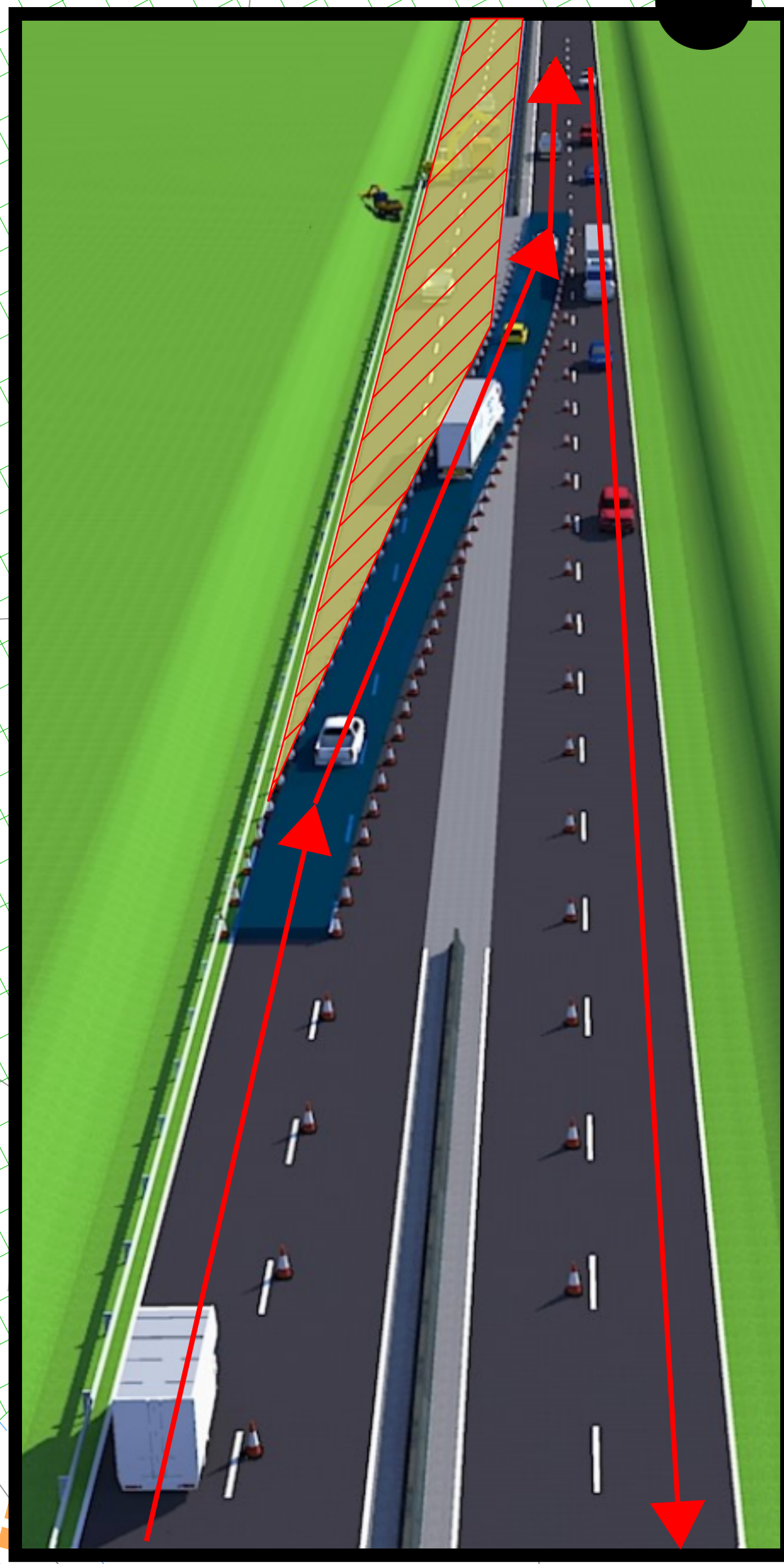
With traffic maintained on the existing A66 westbound side, works can take place on modifying and widening the new eastbound carriageway to suit the new road alignment. This will involve changes to the existing carriageway and widening works. Material excavated will be transported to local stockpile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

Traffic management for construction works

Traffic will be relocated and diverted to enable traffic to remain flowing whilst allowing construction works to be undertaken safely.

Construction works - New off slip

With traffic maintained on the westbound carriageway, works can take place to construct the new off slip. Due to the widening the road at this location, it is likely that the embankment will need re-profiling. All material excavated will stored in allocated stockpiles ready for re-sue where suitable. Once at formation, the new road can be constructed from imported granular material and asphalt dependent on the final design, along with the kerbs and drainage infrastructure.



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.

Revision	Created	Checked	Reviewed	Approved	Authorised
P01	19/02/21	19/02/21	19/02/21	19/02/21	19/02/21

Designer
 Amey OW Limited
 Chancery Exchange
 10 Furnival Street
 London, EC4A 1AB

A66 NTP Integrated Project Team

Client
 3 Piccadilly Place
 Manchester
 M1 3BN

highways england

Project Name
A66 Northern Trans-Pennine

Drawing Title
**Scheme 7: Bowes Bypass
 General Arrangement
 Sheet 1 of 4**

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

Drawing Number
 Project | Originator | Volume |
 HE565627 - AMY - HGN -
 S07 - DR - CH - 500001
 Location | Type | Role | Number

Suitability Suitability Description Revision
 S3 Fit for Internal Review and Comment P01

A66 - Key Proposed Construction Activities (Phase 1A Works)

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Legend

- Roads open & in public use
- Construction Work Area Phase 1
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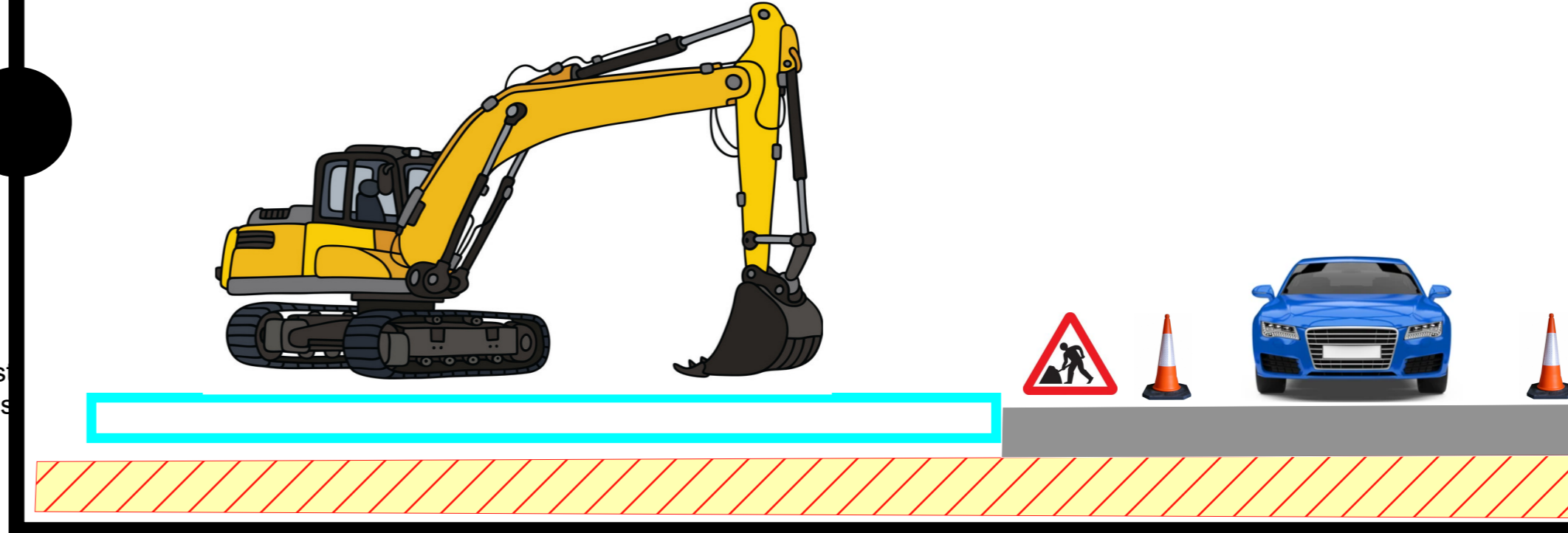
Construction works - Slip roads

The new road will be constructed away from the live A66 traffic with the traffic management in place. To form the road, excavated material is required to be loaded into wagons or dumpers to be stockpiled. Once down to formation the new road can be constructed as per the design using imported stone and asphalt material. Kerbs and drainage will also be installed to complete the road.



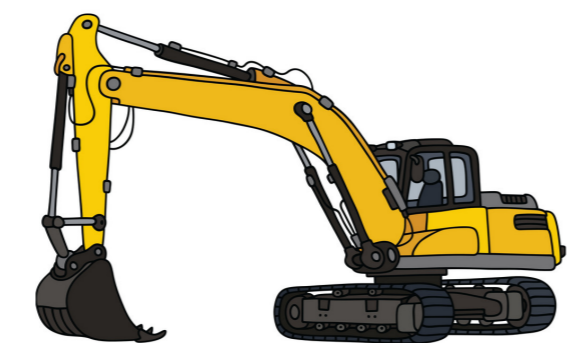
Construction works - New road alignment

Works will take place to install the new road with the existing A67 with some traffic management being required to ensure the works can be undertaken safely whilst allowing traffic movements. With some works taking place close to live traffic, it may be necessary to impose one way traffic restriction to complete the road in a timely manner, which looks to minimise disruption to stakeholders.



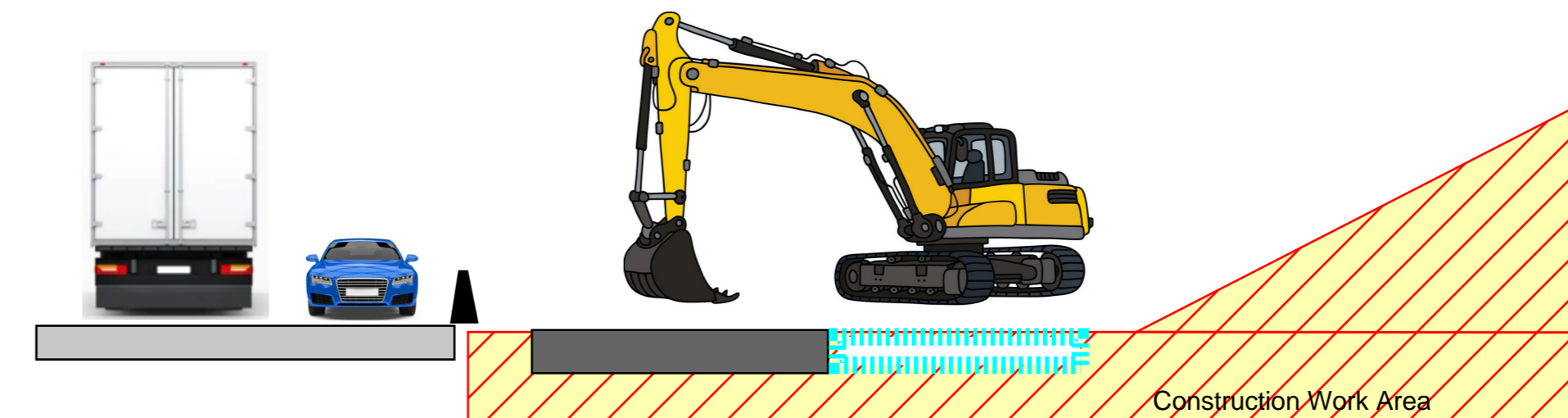
Construction works - Attenuation pond

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.



Construction works - New carriageway

With traffic maintained on the existing A66 westbound side, works can take place on modifying and widening the new eastbound 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 the aggregate and asphalt material being compacted in layers to complete the road.



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highways england

Project Name
A66 Northern Trans-Pennine

Drawing Title
**Scheme 7: Bowes Bypass
 General Arrangement
 Sheet 2 of 4**

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

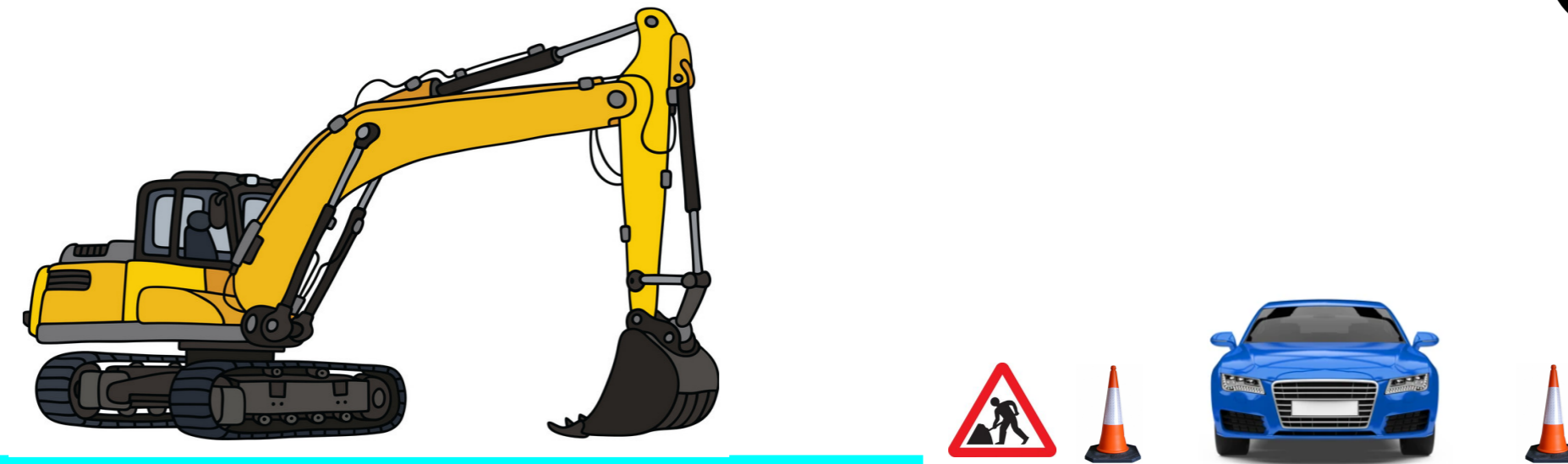
Drawing Number
 Project | Originator | Volume |
 HE565627 - AMY - HGN - |
 S07 - DR - CH - 500002
 Location | Type | Role | Number

Suitability	Suitability Description	Revision
S3	Fit for Internal Review and Comment	P01

A66 - Key Proposed Construction Activities (Phase 1B Works)

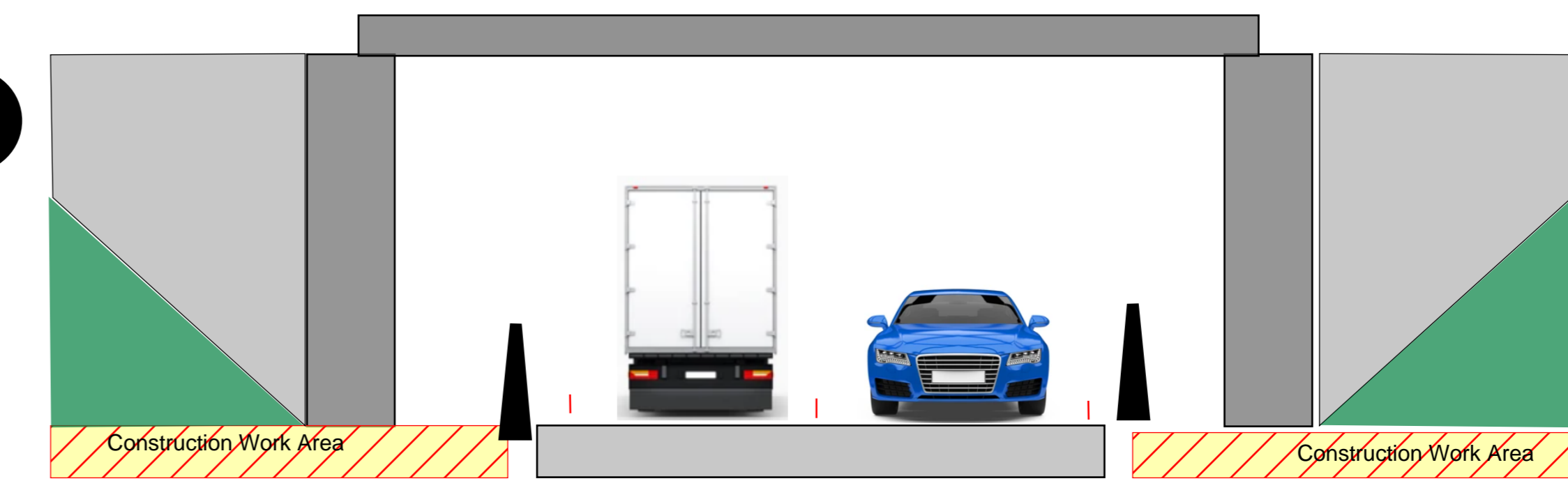
Construction works - New road alignment

Works will take place to install the new road with the existing A67 with some traffic management being required to ensure the works can be undertaken safely whilst allowing traffic movements. With some works taking place online, it may be necessary to impose one way traffic restriction to complete the road in a timely manner, which looks to minimise disruption to stakeholders.



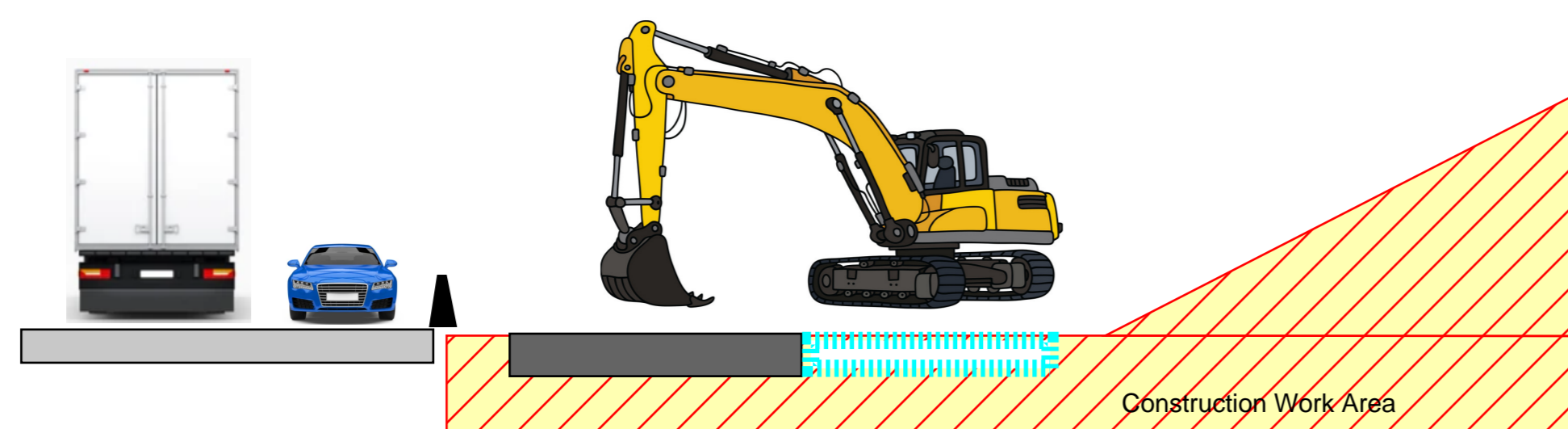
Construction works - Extend Underpass

To enable the new dual carriageway to be constructed it will be necessary to extend the existing underpass. To maintain traffic flows on the A67, it is likely that the abutments will be set back to enable them to be safely constructed whilst keeping traffic flowing. The abutment walls will be constructed and bridge beams place on top, followed by the deck and road. Additional traffic management is expected to lift the roof beams into place. Whilst the works are progressing, the existing A67 traffic will incur very little disruption.



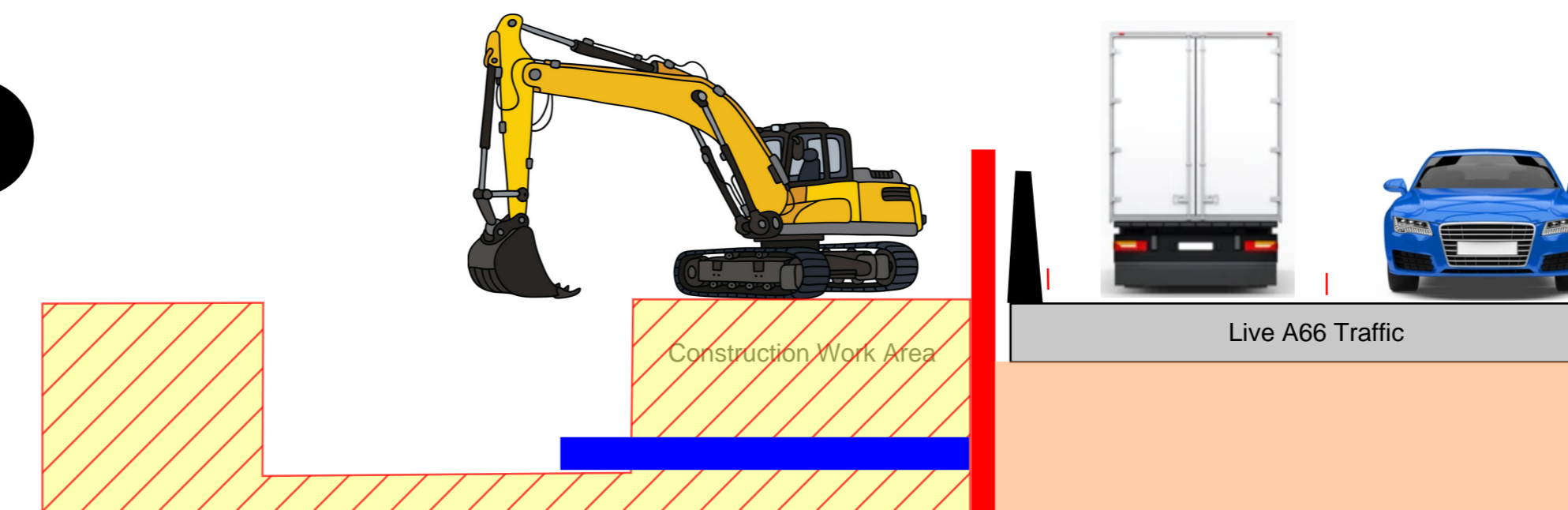
Construction works - New carriageway

With traffic maintained on the existing A66 westbound side, works can take place on modifying and widening the new eastbound 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 the aggregate and asphalt material being compacted in layers to complete the road.



Construction works - Drainage culverts

Drainage works will be undertaken within the construction work area assisted by ground supports to ensure reduced traffic management and keep the A66 traffic flowing. The drainage is required to mitigate flooding and overloading the current drainage network.

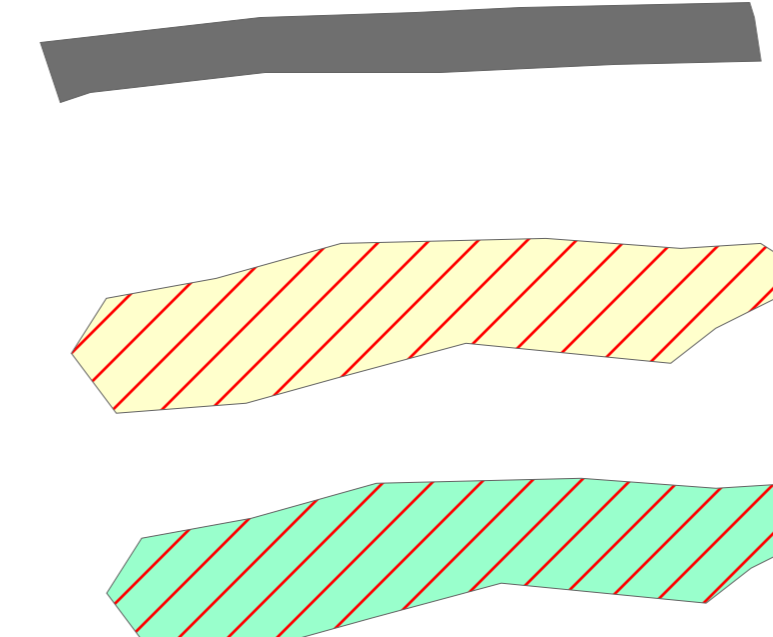


Legend

Roads open & in public use

Construction Work Area Phase 1

Construction Work Area Phase 2



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Scheme 7: Bowes Bypass
General Arrangement
Sheet 2 of 4

Project Ref. No. Stage Scale: 1:1000 @ AD
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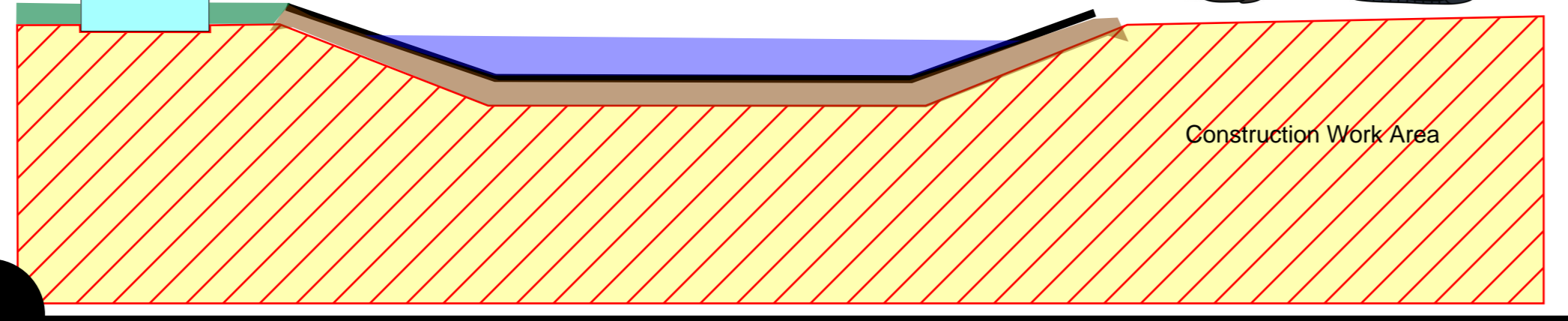
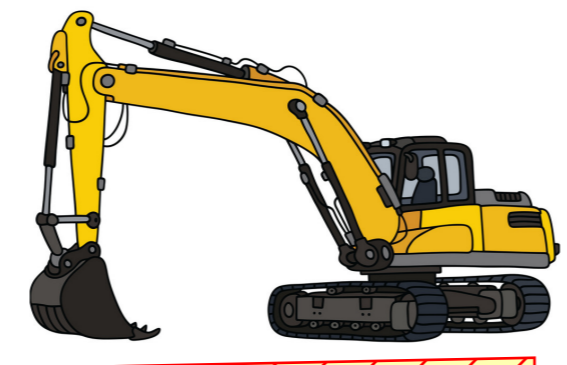
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A66 - Key Proposed Construction Activities (Phase 1 Works)

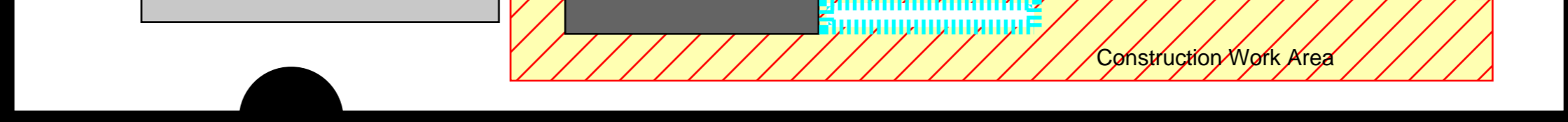
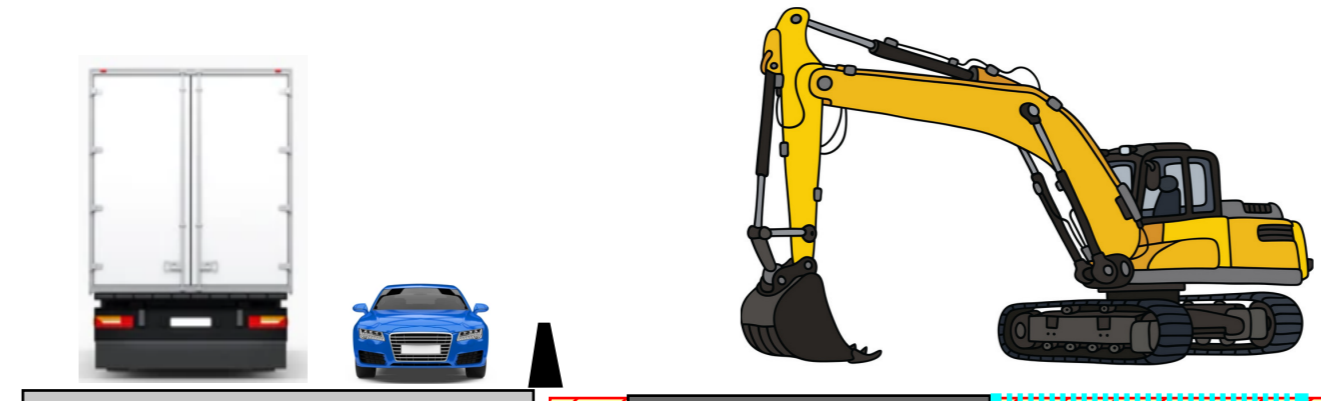
Construction works - Attenuation pond

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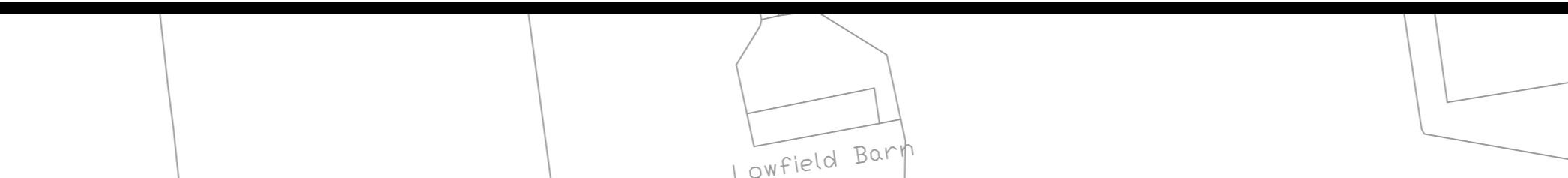
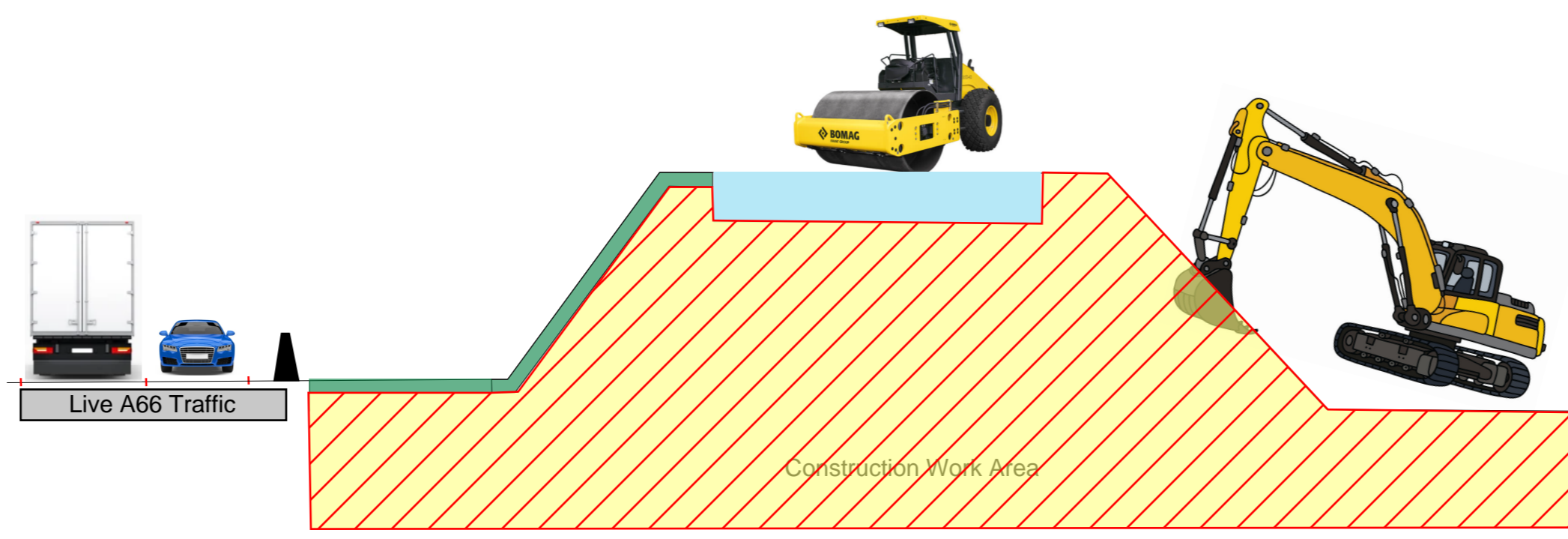
Construction works - New carriageway

With traffic maintained on the existing A66, works can take place on modifying and widening the new eastbound 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 the aggregate and asphalt material being compacted in layers to complete the road. The works will look to be undertaken with offline, to minimise disruption to the A66 traffic.



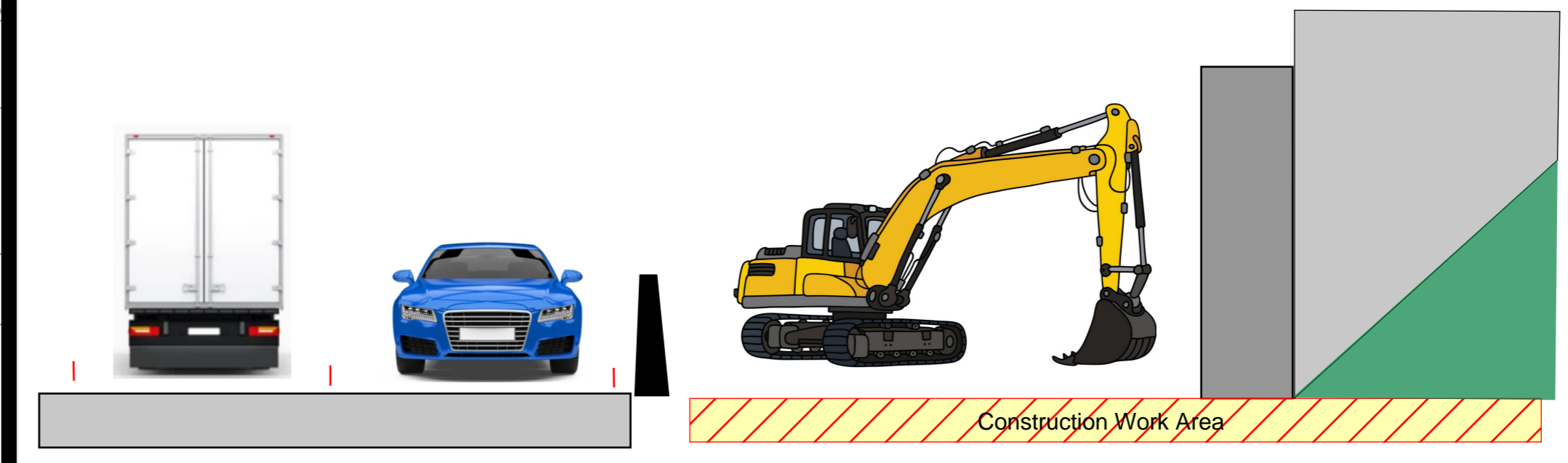
Construction works - Embankment

The embankment construction can be undertaken offline without impact on A66 live traffic. The access road will help mitigate movements across the A66 once complete. The embankment will be constructed from suitably selected fill materials, constructed in layers with the access road integrated at the top. This will involve the installation of kerbs, drainage and the aggregate/ asphalt material which will be installed in layers to complete the road.



Construction works - Overbridge abutment

With traffic maintained on the existing A66, works can commence on the construction of the eastbound abutment ready to receive the bridge beams and deck. As part of the works, fill material will be imported from stockpile locations to form the embankment. Works will take place offline with minimal disruption to the live A66 traffic.



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Legend

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General Arrangement
Sheet 3 of 4

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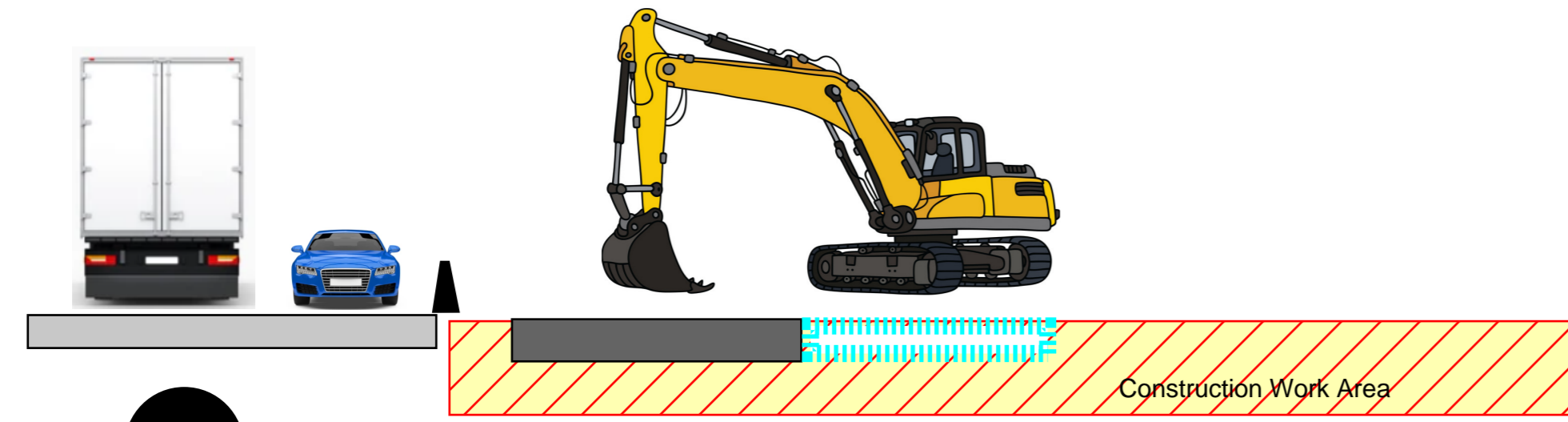
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Project | Originator | Volume |
HE565627 - AMY - HGN -
S07 -DR-CH- 500003
Location | Type | Role | Number

Suitability | Suitability Description | Revision
S3 Fit for Internal Review and Comment | P01

A66 - Key Proposed Construction Activities (Phase 1 Works)

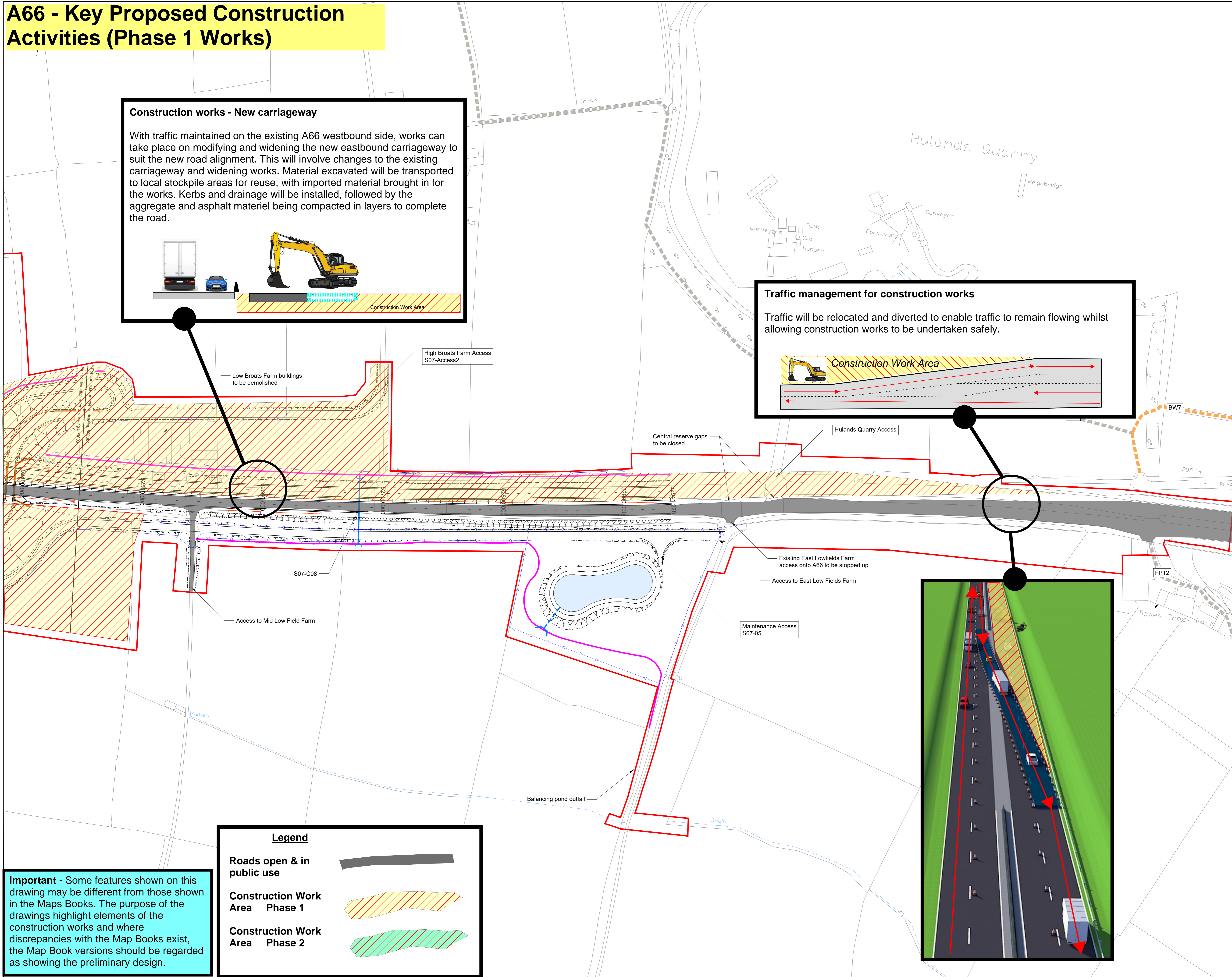
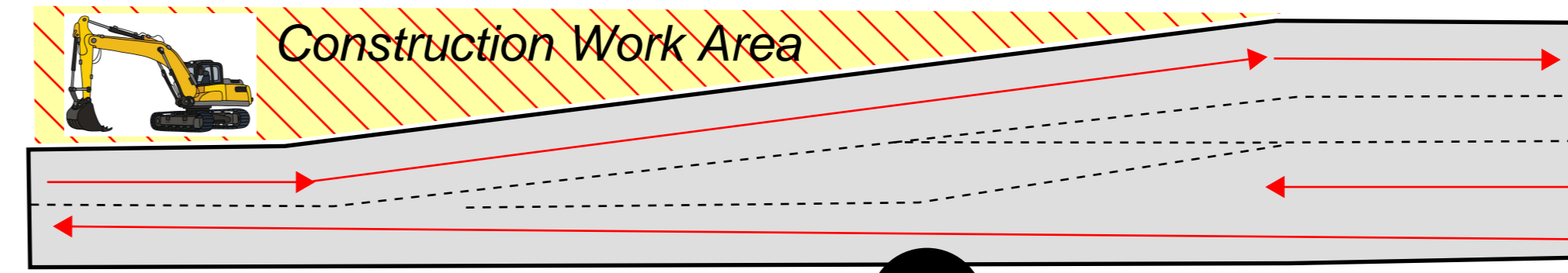
Construction works - New carriageway

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Traffic management for construction works

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 General Arrangement
 Sheet 4 of 4

Project Ref. No. Stage Scale: 1:1000 @ A0
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 Project | Originator | Volume |
 HE565627 - AMY - HGN -
 S07 - DR - CH - 500004
 Location | Type | Role | Number

Suitability | Suitability Description | Revision
 S3 Fit for Internal Review and Comment | P01

A66 - Key Proposed Construction Activities (Phase 2 Works)

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Construction works - New carriageway

With traffic diverted onto part of the new A66, works can take place on modifying and widening the new 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 the aggregate and asphalt material being compacted in layers to complete the road.

Traffic Management for construction works

Traffic will be relocated and diverted to enable traffic to remain flowing whilst allowing construction works to be undertaken safely.

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.

Legend

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

Revision	Created	Checked	Reviewed	Approved	Authorised
P01	19/02/21	19/02/21	19/02/21	19/02/21	19/02/21

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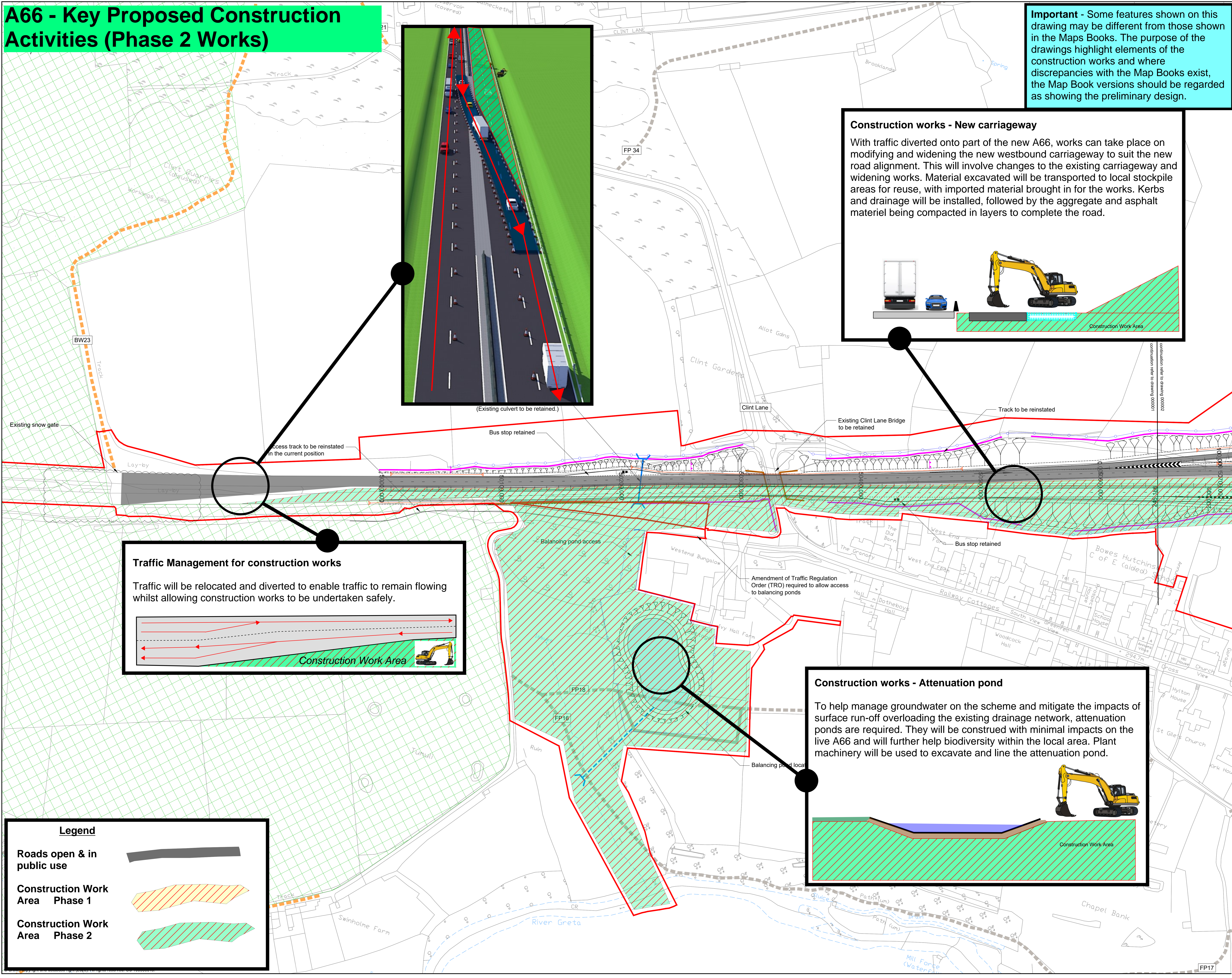
Project Name
 A66 Northern Trans-Pennine

Drawing Title
 Scheme 7: Bowes Bypass
 General Arrangement
 Sheet 1 of 4

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

Drawing Number
 Project | Originator | Volume |
 HE565627 - AMY - HGN -
 S07 -DR-CH- 500001
 Location | Type | Role | Number

Suitability | Suitability Description | Revision
 S3 Fit for Internal Review and Comment | P01



A66 - Key Proposed Construction Activities (Phase 2 Works)

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 Arney 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-S07-TN-CH-00001.
 - The drainage design is of a sufficient level of detail to allow 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.
 - The vehicle restraint system layout is a high level assessment and requires a detailed risk assessment (RRRAP) of the hazards present in the design.
 - Road markings, lighting columns and structures are indicative only and require further design development.
 - 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**
- Red line boundary
 - Existing layout
 - Existing watercourse
 - Proposed layout
 - Highway structure
 - Culvert
 - Cut-off 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
 - Compound/Storage Area
 - Demolished buildings
 - ACNB

Construction works - New carriageway

With traffic diverted onto part of the new A66, works can take place on modifying and widening the new 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 the aggregate and asphalt material being compacted in layers to complete the road.

Construction works - Drainage culverts

Drainage works will be undertaken within the construction work area assisted by ground supports to ensure reduced traffic management and keep the A66 traffic flowing. The drainage is required to mitigate flooding and overloading the current drainage network.

Construction works - New road alignment

Works will take place to install part of the new A66 dual carriageway section of road with the existing road, with some traffic management being required to ensure the works can be undertaken safely whilst allowing traffic movements. With some works taking place close to live traffic, it may be necessary to impose one way traffic restriction to complete the road in a timely manner, which looks to minimise disruption to stakeholders.

Legend

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

Revision	Created	Checked	Reviewed	Approved	Authorised
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 General Arrangement
 Sheet 2 of 4

Project Ref. No. Stage Scale: 1:1000 @ AD
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Drawing Number
 Project | Originator | Volume |
 HE565627 - AMY - HGN -
 S07 -DR-CH- 500002
 Location | Type | Role | Number

