

A66 Northern Trans-Pennine project

Draft Construction
Method and
Management
Statement

**Indicative
schematic drawings**

Volume 2

**Temple Sowerby to
Appleby - Crackenthorpe**

A66 - Key Proposed Construction Activities (Phase 1 Works)

KEY

- ACNB
- Retaining Wall
- Major Overhead Services
- Major Underground Services

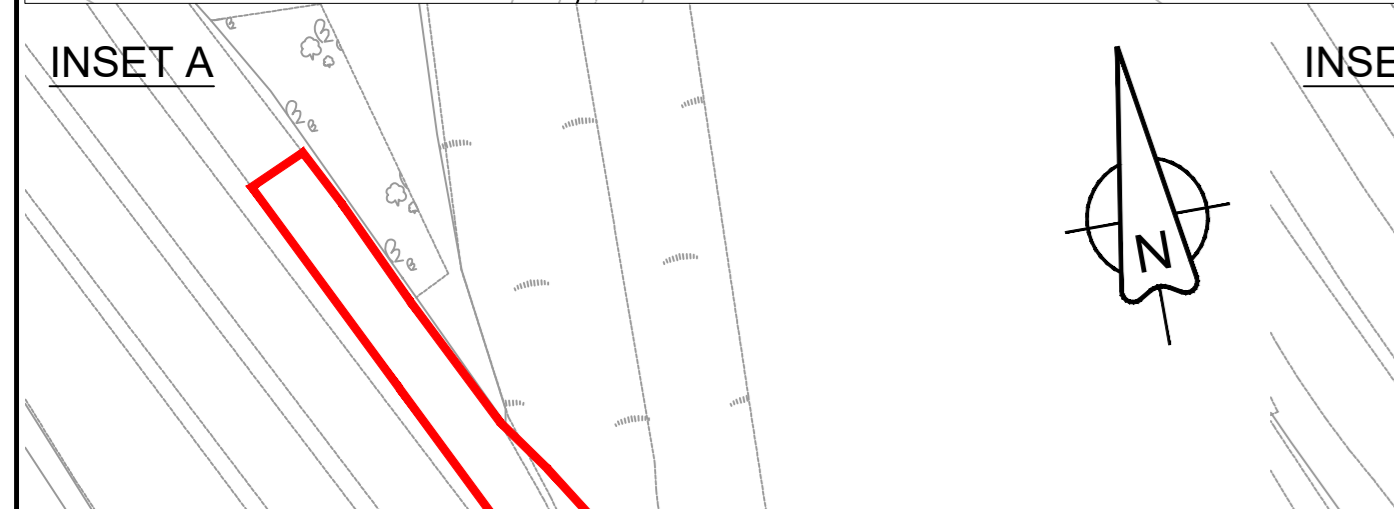
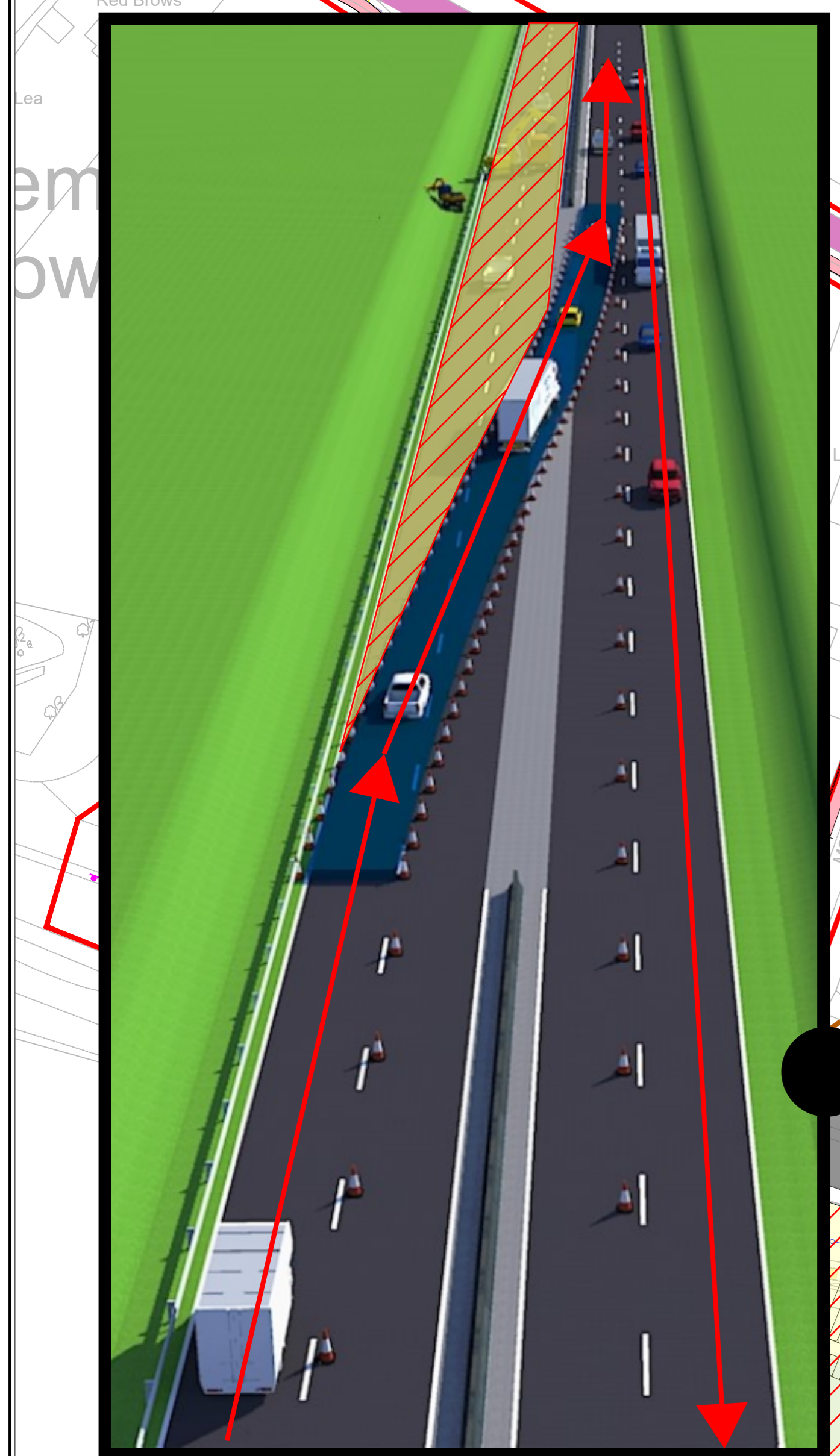
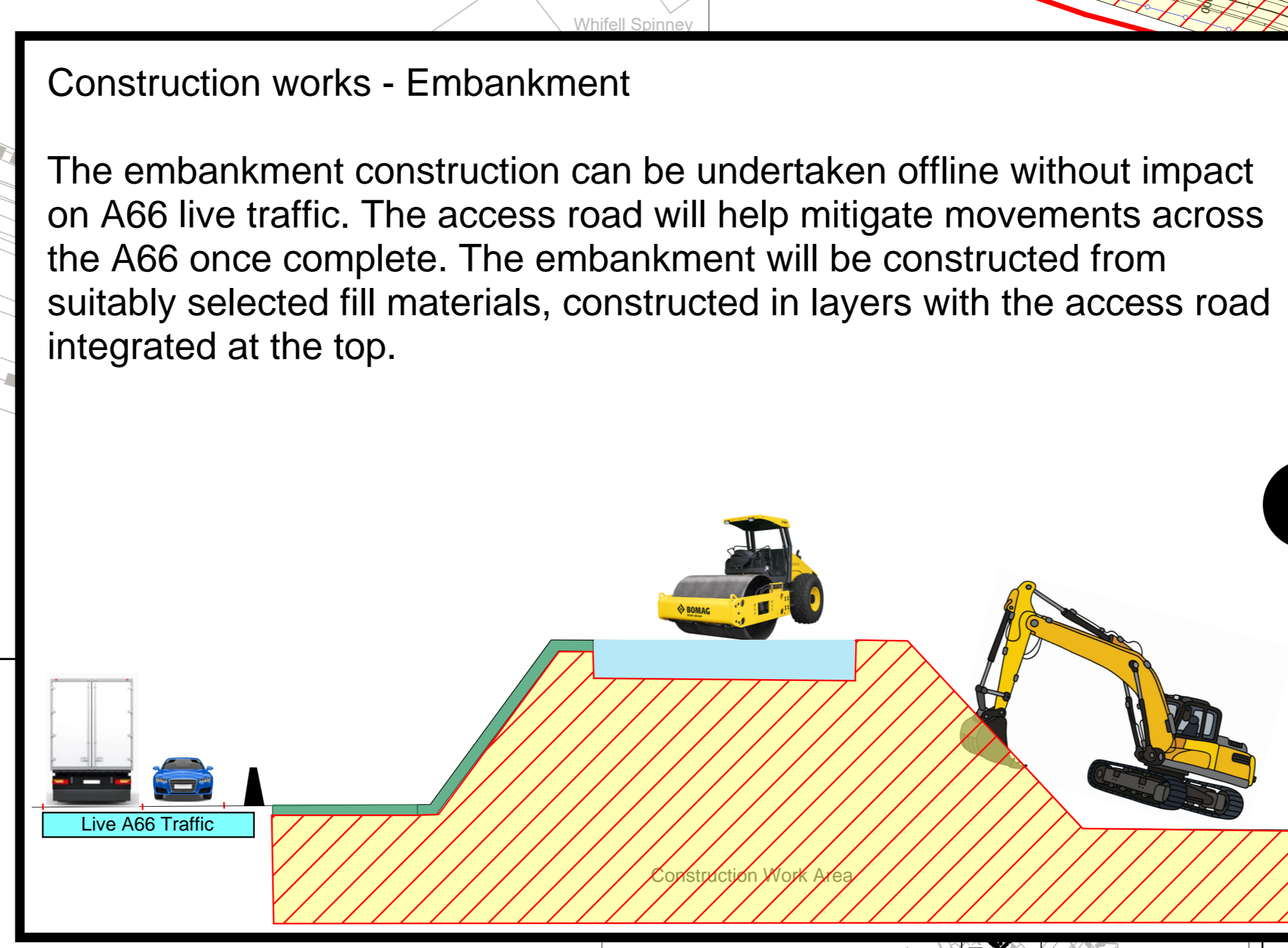
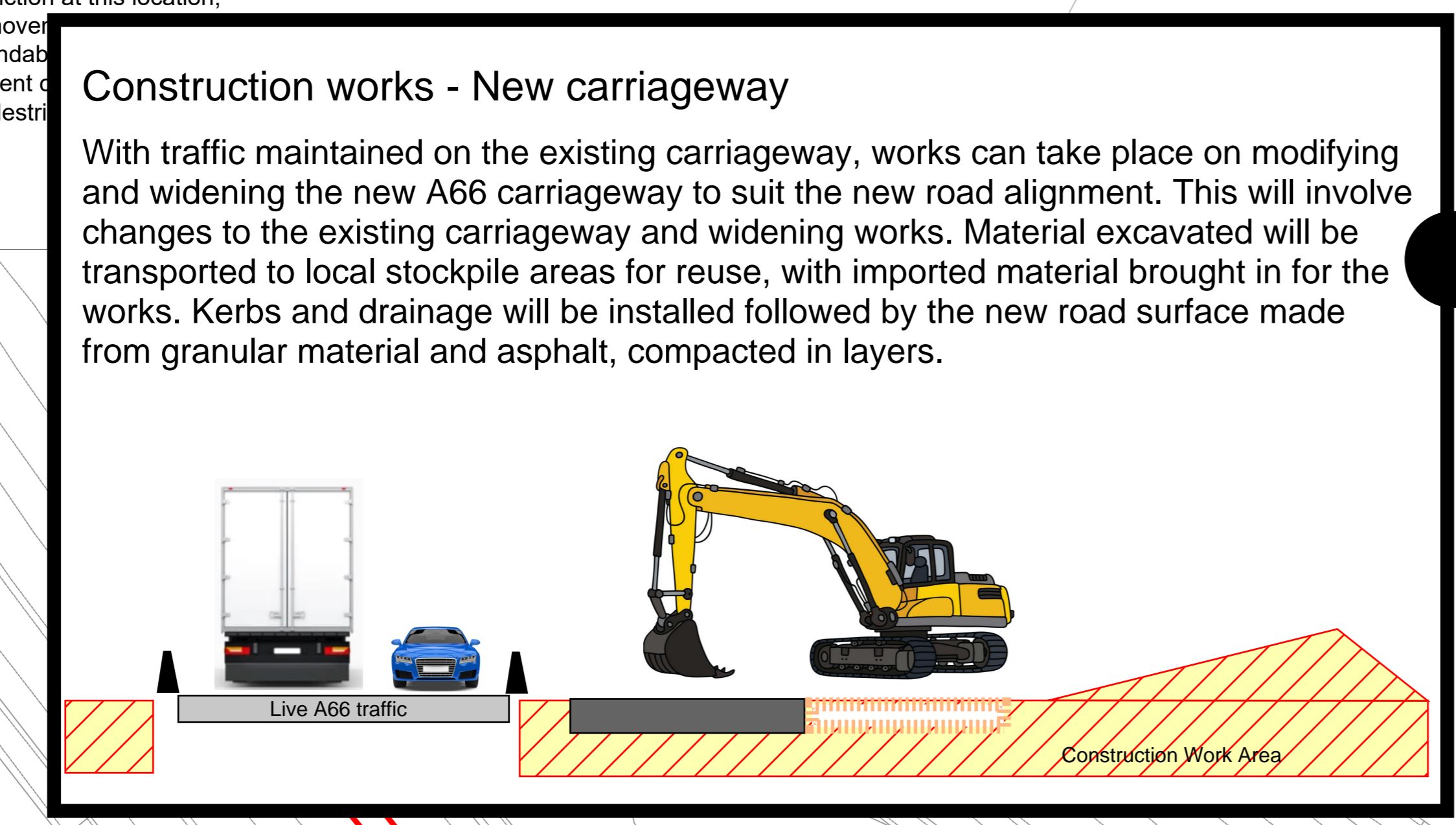
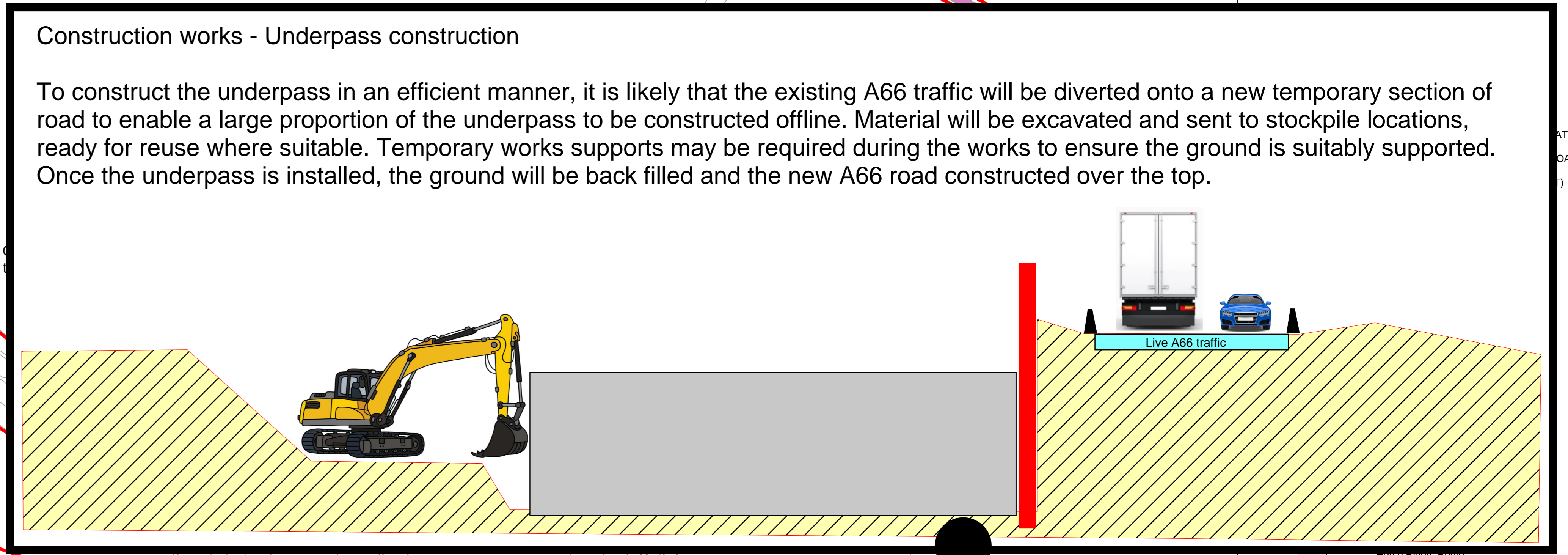
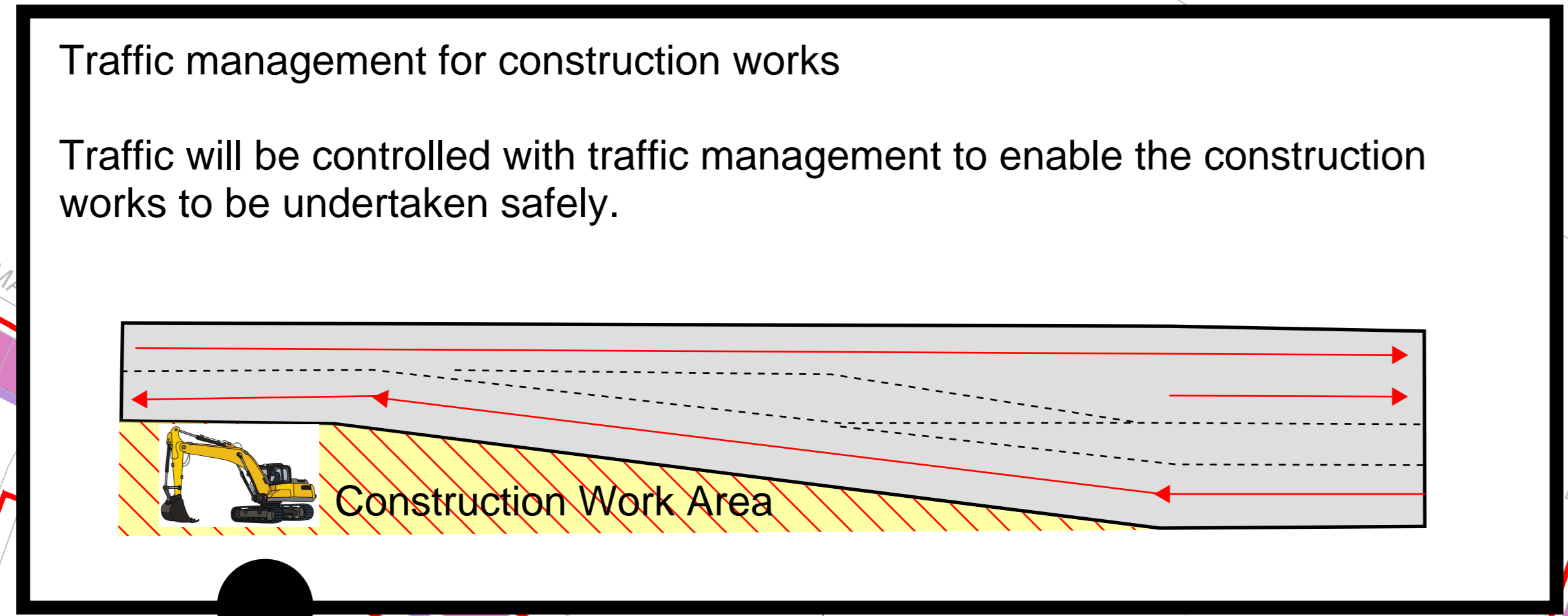
Legend

Roads open & in public use

- Red line boundary
- Existing layout
- Existing watercourse
- Proposed layout
- Highway structure
- Culvert
- Cut-off drain
- Surface water channel
- Dry stone wall
- Noise barrier
- Proposed boundary treatment
- Proposed gate
- Traffic sign
- Proposed lighting column
- Proposed traffic signal
- Technology site
- Proposed vehicle restraint system
- Headwall
- Pipe to Outfall
- Earthworks
- Pond
- Proposed Bridleway

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.

RESIDUAL DESIGN HAZARDS

(The following information has been collected from Preconstruction Information and the Arney Arup DIV CDM Hazard Management Process.)

- Underground services
- Overhead services

- NOTES**
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 - This drawing is to be read in conjunction with the accompanying Technical Note.
 - Ordnance Survey data has been replaced by more detailed Sensat Survey (aerial mapping by drones) data where the existing OA66 lies in with the proposed RA66 and TSL Road.
 - Design in progress - all facilities shown in this GA plan may be subject to change.

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

Client: 3 Piccadilly Place, Manchester, M1 3BN

highways england

Project Name: A66 Northern Trans-Pennine

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

Drawing Title: Temple Sowerby to Appleby Blue Option General Arrangement, Sheet 1 of 11 (Temple Sowerby Link)

Revision	Created	Checked	Reviewed	Approved	Authorised
P01	GCHI	GCHI	SHAL	KCRO	---
	08/08/21	08/09/21	08/09/21	08/09/21	---

Suitability: S1, Suitability Description: Fit for Co-ordination, Revision: P01

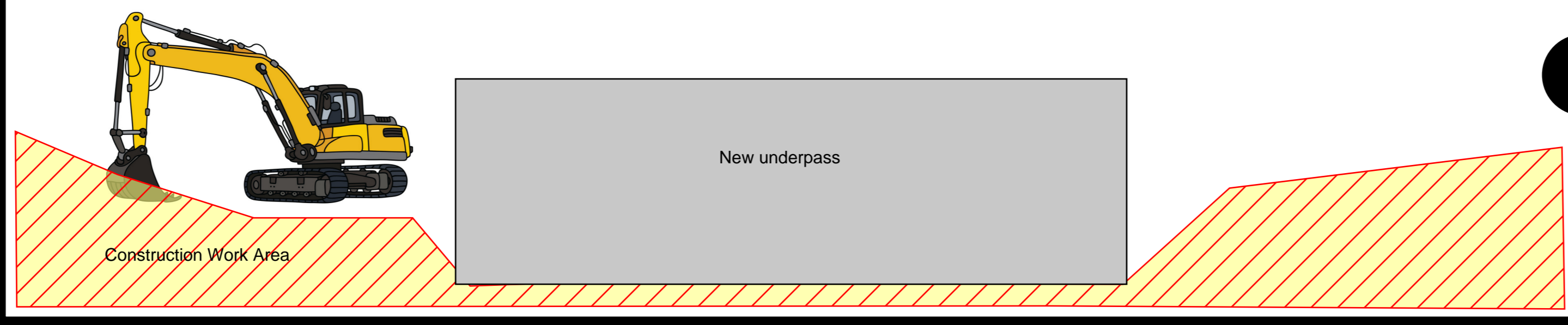


A66 - Key Proposed Construction Activities (Phase 1 Works)

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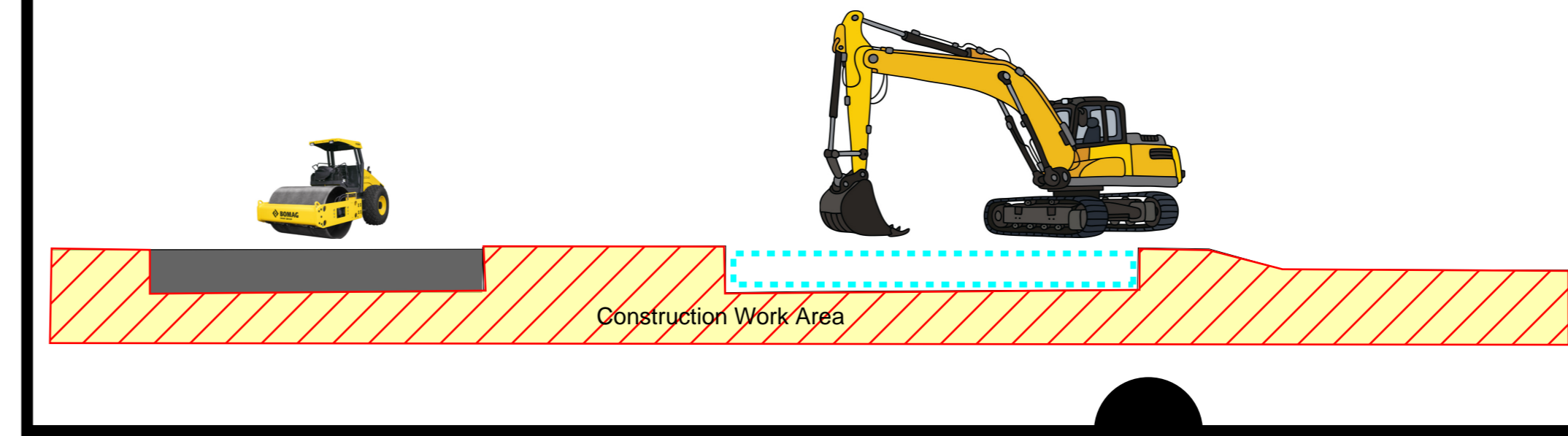
Construction works - Underpass construction

The underpass will help reduce movements across the new A66 and help improved safety for WCHs. This will be excavated into the ground with material transported to storage locations ready for re-use dependent on suitability. The structure will be constructed below ground and then buried to enable the new A66 to be constructed over the top.



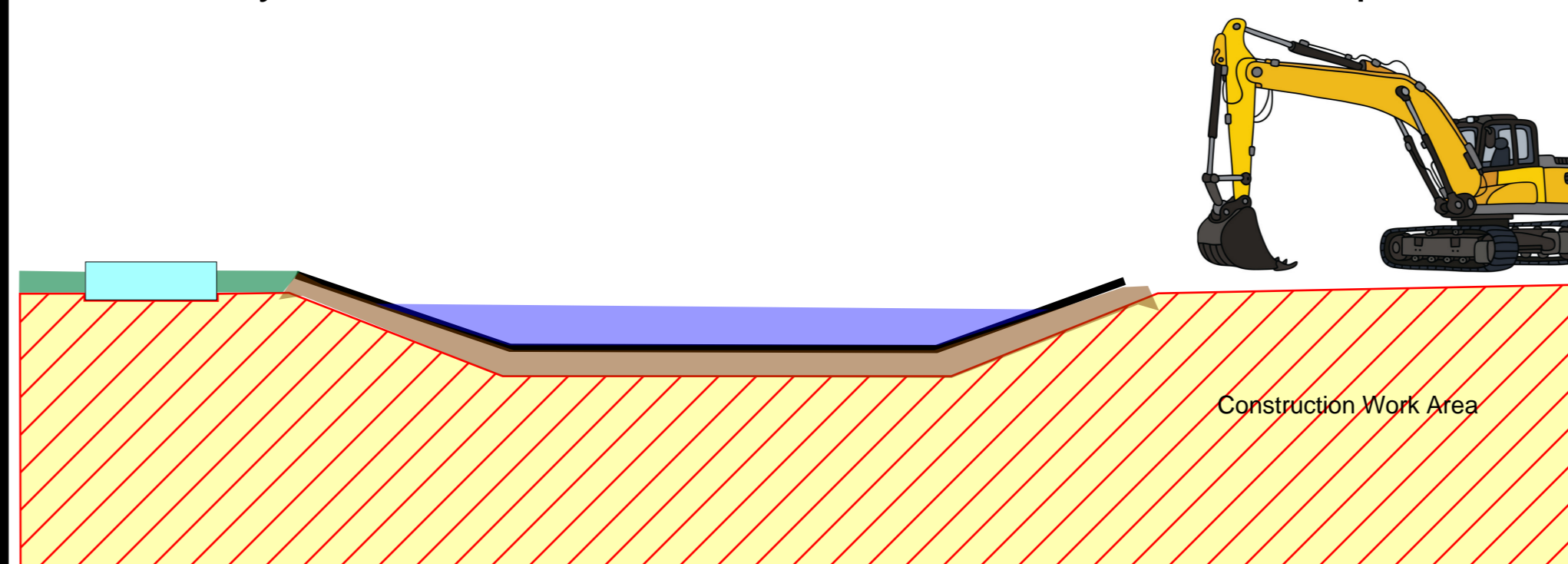
Construction works - New carriageway construction

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, following the installation of kerbs and drainage.

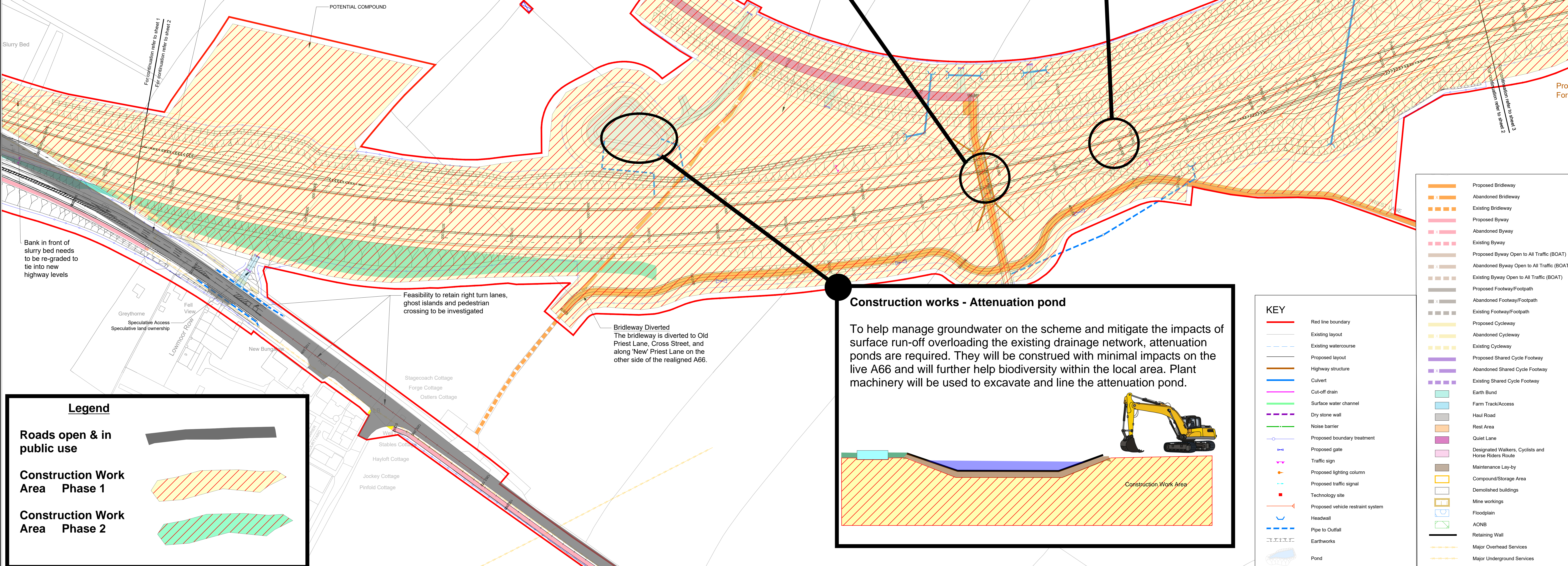


Construction works - Attenuation pond

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.



Old A66 Extended
So residents of Kirkby Thore, Crackenthorpe and other surrounding villages do not need to use the realigned A66 to access Temple Sowerby the old A66 will be extended to the existing grade separated junction. This will also allow the existing bus service to continue along the same route that it currently does. This road may be used to access the adjacent farm fields. The 40mph speed limit will be continued to the roundabout.



Legend

Roads open & in public use

Construction Work Area Phase 1

Construction Work Area Phase 2

KEY

- Red line boundary
- Existing layout
- Existing watercourse
- Proposed layout
- Highway structure
- Culvert
- Cut-off drain
- Surface water channel
- Dry stone wall
- Noise barrier
- Proposed boundary treatment
- Proposed gate
- Traffic sign
- Proposed lighting column
- Proposed traffic signal
- Technology site
- Proposed vehicle restraint system
- Headwall
- Pipe to Outfall
- Earthworks
- Pond

- Proposed Bridleway
- Abandoned Bridleway
- Existing Bridleway
- Proposed Byway
- Abandoned Byway
- Existing Byway
- Proposed Byway Open to All Traffic (BOAT)
- Abandoned Byway Open to All Traffic (BOAT)
- Existing Byway Open to All Traffic (BOAT)
- Proposed Footway/Footpath
- Abandoned Footway/Footpath
- Existing Footway/Footpath
- Proposed Cycleway
- Abandoned Cycleway
- Existing Cycleway
- Proposed Shared Cycle Footway
- Abandoned Shared Cycle Footway
- Existing Shared Cycle Footway
- Earth Bund
- Farm Track/Access
- Haul Road
- Rest Area
- Quiet Lane
- Designated Walkers, Cyclists and Horse Riders Route
- Maintenance Lay-by
- Compound/Storage Area
- Demolished buildings
- Mine workings
- Floodplain
- AONB
- Retaining Wall
- Major Overhead Services
- Major Underground Services

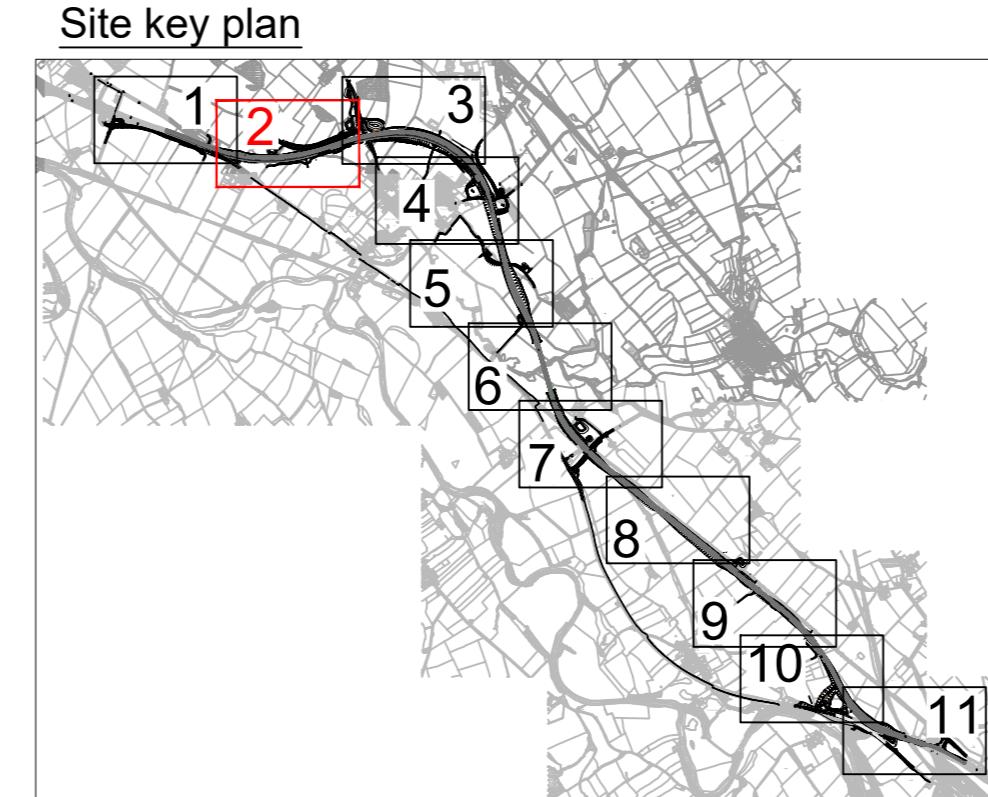
RESIDUAL DESIGN HAZARDS

(The following information has been collected from Preconstruction information and the Arney Arup DJV CDM Hazard Management Process.)

Underground services
Overhead Services

NOTES

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Revision	Created	Checked	Reviewed	Approved	Authorised
	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy
P01	GCH	GCH	SHAL	KCRO	
	08/09/21	08/09/21	08/09/21	08/09/21	

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

Client
3 Piccadilly Place
Manchester
M1 3BN

highways england

Project Name
A66 Northern Trans-Pennine

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

Drawing Title
Temple Sowerby to Appleby
Blue Option General Arrangement
Sheet 2 of 11
(Low Moor Caravan Park)

Drawing Number
HE565627 - AMY - HGN
S0405 -DR-CH- 000202

Suitability Suitability Description Revision
S1 Fit for Co-ordination P01

A66 - Key Proposed Construction Activities (Phase 1 Works)

Legend

Roads open & in public use

Construction Work Area Phase 1

Construction Work Area Phase 2

Construction works - Overbridge construction

Works will only commence on this new infrastructure, once a diversion route is established. Where the new bridge is to be constructed on the line of the existing road a temporary road will be constructed adjacent to it to allow local access. This will enable both abutments and the deck to be constructed in one phase of works, minimising disruption to local traffic. With the diversion in place it is likely that the bridge beams can be installed with limited additional traffic management.

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 further help biodiversity within the local area. Plant machinery will be used to excavate and line the attenuation pond.

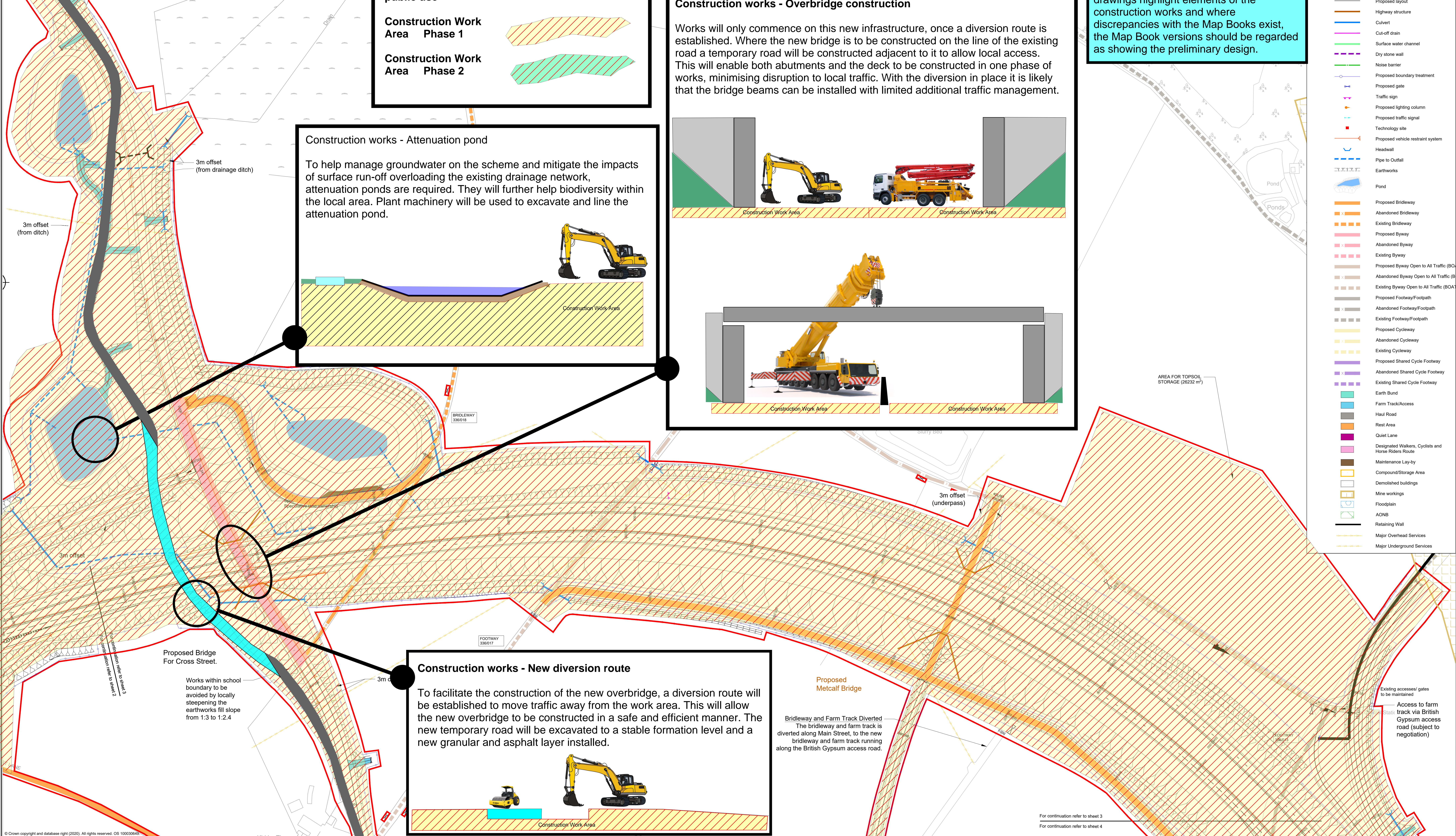
Construction works - New diversion route

To facilitate the construction of the new overbridge, a diversion route will be established to move traffic away from the work area. This will allow the new overbridge to be constructed in a safe and efficient manner. The new temporary road will be excavated to a stable formation level and a new granular and asphalt layer installed.

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KEY

- Red line boundary
- Existing layout
- Existing watercourse
- Proposed layout
- Highway structure
- Culvert
- Cut-off drain
- Surface water channel
- Dry stone wall
- Noise barrier
- Proposed boundary treatment
- Proposed gate
- Traffic sign
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- Compound/Storage Area
- Demolished buildings
- Mine workings
- Floodplain
- AONB
- Retaining Wall
- Major Overhead Services
- Major Underground Services

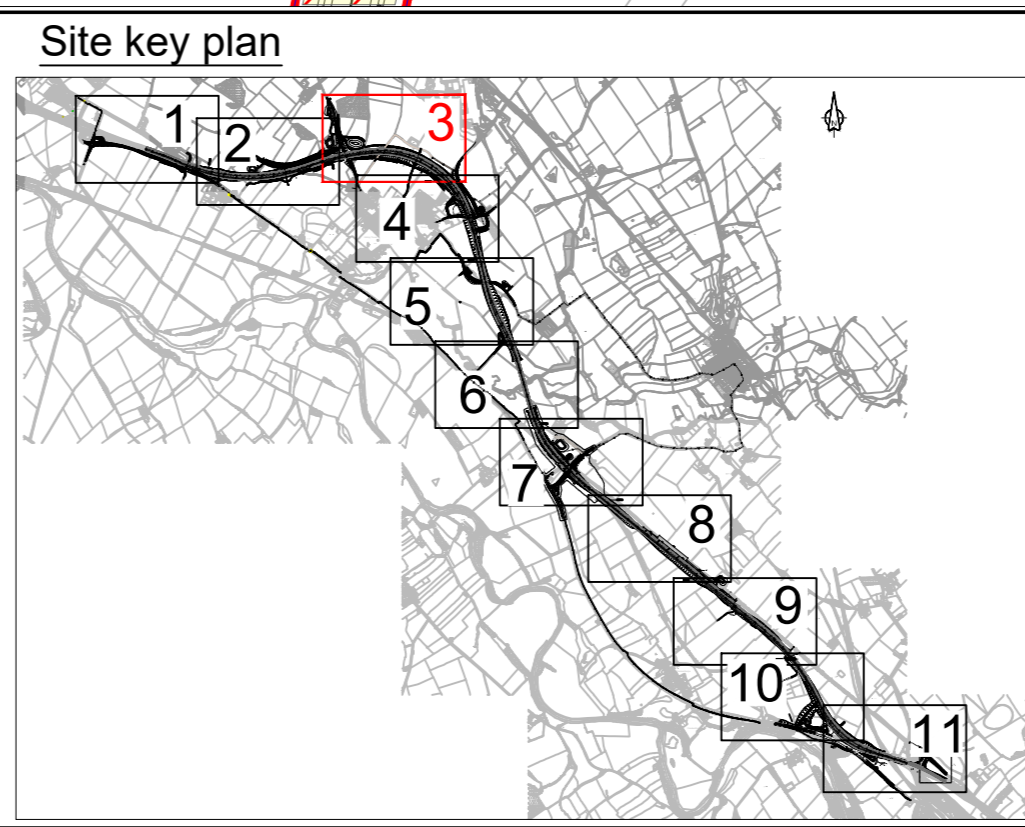


RESIDUAL DESIGN HAZARDS

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- Underground Services
- Overhead Services

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P01	GCH	GCH	SHAL	KCRO	
	08/08/21	08/09/21	08/09/21	08/09/21	

Designer
Arney OW Limited
Chancery Exchange
10 Fumival Street
London, EC4A 1AB

A66 NTP Integrated Project Team

Project Name
A66 Northern Trans-Pennine

Drawing Title
**Temple Sowerby to Appleby
Blue Option General Arrangement
Sheet 3 of 11
(Kirkby Thore School)**

Client
3 Piccadilly Place
Manchester
M1 3BN

highways england

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

Drawing Number
Project HE565627 - AMY - HGN
Originator S0405
Volume -DR-CH- 000203
Location | Type | Role | Number

Suitability S1 Suitability Description Fit for Co-ordination Revision P01

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For continuation refer to sheet 3
For continuation refer to sheet 4

A66 - Key Proposed Construction Activities (Phase 1 Works)

Legend

Roads open & in public use

Construction Work Area Phase 1

Construction Work Area Phase 2

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.

Construction works - Access road

To construct the access road, the surrounding land will need to be reduced and the material locally stockpiled. Once down to formation the new access road can be constructed from imported granular material dependent on the final design.

Construction works - Overbridge Construction

With the existing local access road being maintained a safe distance from the new bridge work area, works on all elements of the new overbridge can commence. With the works taking place away from live traffic, this will enable both abutments and the deck to 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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- Red line boundary
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- Mine workings
- Floodplain
- AONB
- Retaining Wall
- Major Overhead Services
- Major Underground Services

FLOODPLAIN KEY

- Floodplain River Eden 1 in 2 year & Trout Beck 1 in 2 year
- Floodplain River Eden 1 in 100 year storm + 94% CC Trout Beck 1 in 20 year storm + 94% CC
- Floodplain River Eden 1 in 20 year storm + 94% CC Trout Beck 1 in 100 year storm + 94% CC

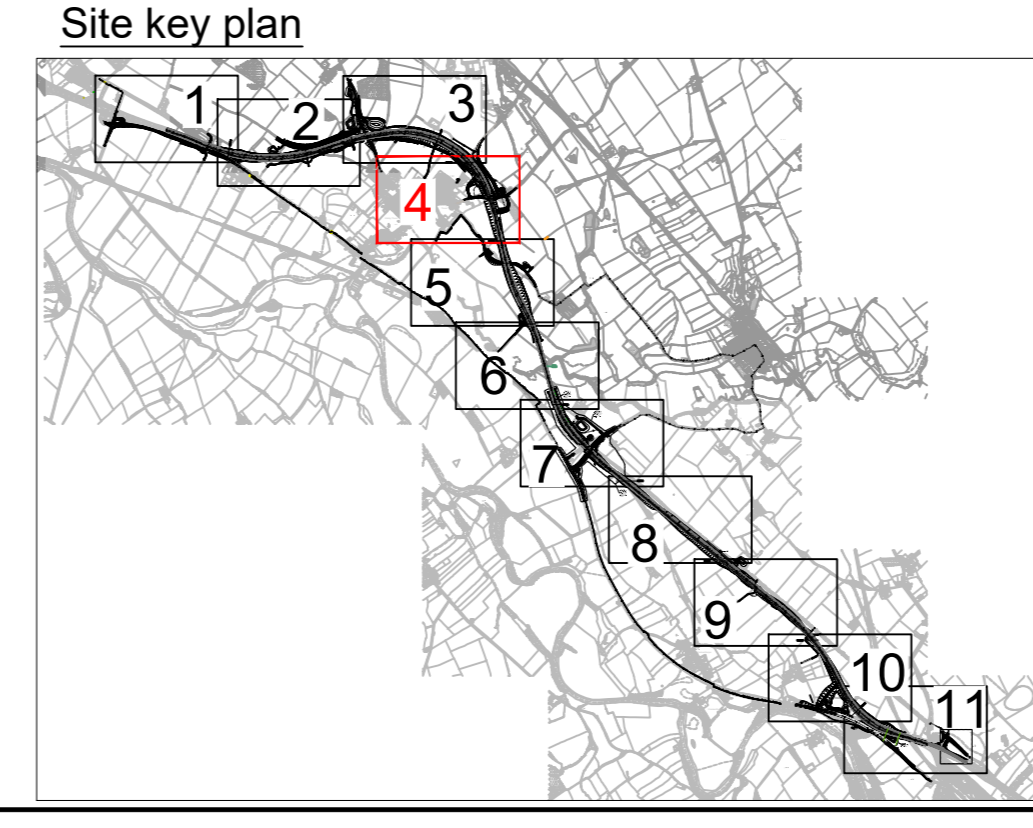
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- Underground Services
- Overhead Services



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dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy	dd/mm/yy
P01	GCHI 08/09/21	GCHI 08/09/21	SHAL 08/09/21	KCRO 08/09/21	---

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

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

Drawing Title
Temple Sowerby to Appleby
Blue Option General Arrangement
Sheet 4 of 11
(British Gypsum Junction)

Drawing Number
Project | Originator | Volume
HE565627 - AMY - HGN
S0405 -DR-CH-000204
Location | Type | Role | Number

Suitability Suitability Description Revision
S1 Fit for Co-ordination P01

For continuation refer to sheet 4
For continuation refer to sheet 5

A66 - Key Proposed Construction Activities (Phase 1 Works)

Construction works - Overbridge construction

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Legend

Roads open & in public use

Construction Work Area Phase 1

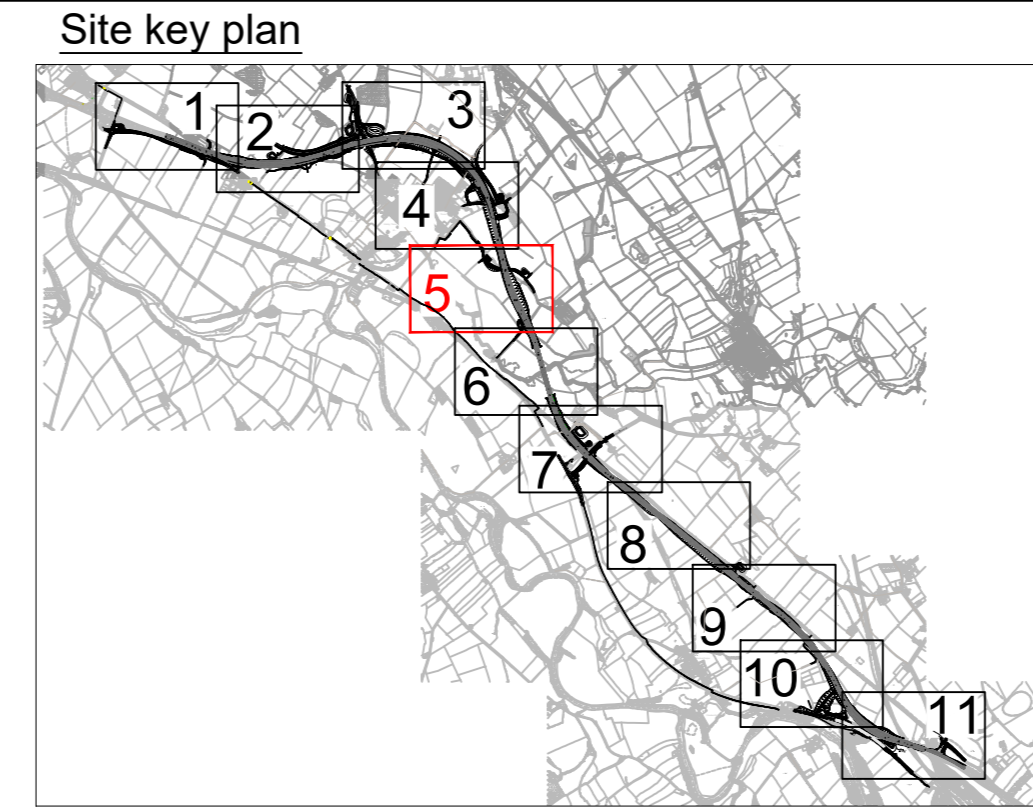
Construction Work Area Phase 2

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Overhead Services



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P01	GCHI 08/09/21	GCHI 08/09/21	SHAL 08/09/21	KCRO 08/09/21	

Designer
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A66 NTP Integrated Project Team

Client
3 Piccadilly Place
Manchester
M1 3BN

highways england

Project Name
A66 Northern Trans-Pennine

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

Drawing Title
**Temple Sowerby to Appleby
Blue Option General Arrangement
Sheet 5 of 11
(Sleastonhow Lane)**

Drawing Number
**HE565627 - AMY - HGN
S0405 -DR-CH- 000205**

Sustainability Description
S1 Fit for Co-ordination P01

Project Ref. No.	Stage	Scale: 1:1000	@ A0
---	PCF3	Dimensions: M	
Drawing Number	Project	Originator	Volume
HE565627 - AMY - HGN S0405 -DR-CH- 000205			
Location	Type	Role	Number
Sustainability	Sustainability Description	Revision	
S1	Fit for Co-ordination	P01	