

From: [Selby, Thomas](#)
To: [Hanlon, Paige](#)
Cc: [M25 J28 Improvements](#); [M25 Junction 28](#); [Desai, Viral](#); ["George, Pete"](#); [CHALLIS Mark](#)
Subject: M25 Junction 28 - Unilateral Undertaking to London Borough of Havering and Brentwood Borough Council
Date: 07 July 2021 17:30:44
Attachments: [UNILATERAL OBLIGATION UNDER SECTION 106 TOWN AND COUNTRY PLANNING ACT 1990 WORKS TO M25 JUNCTION 28 NON MOTORISED USERS.pdf](#)
[M25 junction 28 improvement scheme Planning Inspectorate reference TR010029 Unilateral Undertaking to London Borough of Havering and Brentwood Borough Council .docx](#)

Hi Paige

Please find attached a letter and s106 UU for the attention of the Planning Inspectorate.

Thanks and regards

Thomas Selby

Highways England | Bridge House | 1 Walnut Tree Close | Guildford | Surrey | GU1 4LZ



Web: <http://www.highways.gov.uk>

GTN: 0300 470 1253

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The Planning Inspectorate
National Infrastructure Planning
Temple Quay House
Temple Quay
Bristol
BS1 6PN

Thomas Selby
Highways England
Bridge House
1 Walnut Tree Close
Guildford |
Surrey GU1 4LZ

By email to:
m25junction28@planninginspectorate.gov.uk

[REDACTED] [REDACTED]
7 July 2021

Dear Sirs,

M25 junction 28 improvement scheme
Planning Inspectorate reference: TR010029
Unilateral Undertaking to London Borough of Havering and Brentwood Borough Council

We note that a number of responses have been submitted in response to the deadline 9 submissions, including in respect of the proposed Highways England unilateral planning obligation.

Highways England has already explained why it does not think it would be appropriate for there to be a requirement in respect of the entire NMU scheme it being in large part outside the scope of the DCO application.

Highways England also takes the view, as explained in the examination, that a requirement in respect of the central section of the NMU scheme as it passes through the junction is not necessary although Highways England, pursuant to a planning obligation, is willing to provide that section within its own highways network.

For good order, whilst the examination is still open, we are attaching to this letter the form of a unilateral planning obligation that Highways England has entered into and which is dated today. It is very substantially in the form of that submitted at Deadline 9 in draft [REP-070] save that a reference to section 106(1)(b) has been added for good order in paragraph 4 and that paragraph 5 has been added to the effect that the obligation to construct the so called "Junction Section" is subject to any requirement in respect of if that the Secretary of State may impose notwithstanding

Yours faithfully

Thomas Selby

Thomas Selby
Project Manager

DATED

7TH JULY 2021

(1) HIGHWAYS ENGLAND COMPANY LIMITED

TO

(2) THE LONDON BOROUGH OF HAVERING

AND

(3) BRENTWOOD BOROUGH COUNCIL

UNILATERAL OBLIGATION UNDER SECTION 106 TOWN AND
COUNTRY PLANNING ACT 1990
WORKS TO M25 JUNCTION 28 - NON MOTORISED USERS



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Grosvenor House
Grosvenor Square
Southampton, SO15 2BE
DX 38516 Southampton 3

T +44 (0)345 222 9222

W www.bdbpitmans.com

THIS PLANNING OBLIGATION is given the 7TH day of JULY 2021

BY

- (1) **HIGHWAYS ENGLAND COMPANY LIMITED** (Company number 09346363) of Bridge House, 1 Walnut Tree Close, Guildford GU1 4LZ ("Highways England")

TO

- (2) **THE LONDON BOROUGH OF HAVERING** of Town Hall, Main Road, Romford, RM1 3BB ("LBH");

AND

- (3) **BRENTWOOD BOROUGH COUNCIL** of Town Hall, Ingrave Road, Brentwood, Essex CM15 8AY ("BBC")

BACKGROUND

- (A) Highways England has made an application (the "Application") for a development consent order ("DCO") to improve junction 28 of the M25 ("Junction 28")
- (B) The Application is the subject of an examination under the Planning Act 2008 that began on 7 January 2021 and which is due to end on 7 July 2021
- (C) Highways England is willing to fund and construct a scheme (the "NMU Scheme") to improve facilities for non-motorised users along a route from Brentwood to Harold Hill
- (D) The route of the NMU Scheme passes through Junction 28 and Highways England is willing to construct the part of the NMU Scheme that passes through Junction 28 at the same time as the scheme the subject of the Application is being constructed
- (E) The Junction Section falls within the area for which LBH and BBC are the local planning authorities
- (F) The works comprised within the Junction Section are permitted development under Part 9 of Schedule 2 of The Town and Country Planning (General Permitted Development) (England) Order 2015

1 DEFINITIONS

"Loop Road" means the road comprising Work No. 6 in the draft DCO the subject of the Application as at the date of this deed

"NMU Scheme" means the scheme shown on the plans at Annex 1 of this obligation and which comprises improvements to facilities for non-motorised users between the junction of Kavanaghs Road and Brook Street (A1023) to the junction of Green Way and Harold Court Road

“Junction Section” means that part of the NMU Scheme shown within the area edged by a dotted red line on the plan at Annex 2 of this obligation for which part Highways England is the highway authority and which comprises the works described in the schedule to this obligation

- 2 This is a planning obligation made under section 106 of the Town and Country Planning Act 1990 and which is enforceable by LBH and BBC as regards their respective areas
- 3 Highways England is the freehold owner of the land shown edged by a dotted red line on the plan at Annex 2 under HMLR title numbers EGL545805, EGL545065, EX326047, EGL541621, EX821546 and EX822515 and also comprising unregistered land which taken together is the relevant land in which Highways England is interested for the purposes of Section 106(9)(b) of the Town and Country Planning Act 1990
- 4 Subject to paragraph 5 below Highways England undertakes pursuant to Section 106(1)(b) of the Town and Country Planning Act 1990 to construct the Junction Section to an appropriate standard commensurate with its use by members of the general public no later than the date by which the Loop Road is opened to the general public for traffic
- 5 The undertaking in paragraph 4 above is subject to the need to comply with any requirement imposed upon Highways England by the Secretary of State in a development consent order made pursuant to the Application as regards the Junction Section or any part thereof.

The Schedule

The works comprise the construction of a new shared footway and cycleway surfaced in asphalt that is 3 metres wide (except for a short length that is 2.7 metres wide), the works being illuminated by street lighting, including associated relocation and adjustment of existing road restraint systems, the provision of pedestrian guard railings, remodelled earthworks and signage. Existing traffic signals to be modified and converted to toucan crossings with button controls for pedestrians and cyclists

This obligation has been executed as a deed and is delivered and takes effect on the date stated at the beginning of it.

ANNEX 1

Plans showing the NMU Scheme

ANNEX 2

Plan showing the Junction Section

Executed as a Deed by affixing the)
common seal of)
HIGHWAYS ENGLAND COMPANY LIMITED)
in the presence of:)

_____ 

In the presence of a Witness: _____

Witness Name:
(block capitals)
Witness Address:



Witness occupation



2021/1169

From: [Selby, Thomas](#)
To: [Hanlon, Paige](#)
Cc: [Desai, Viral](#); ["George, Pete"](#); [CHALLIS Mark](#); [M25 Junction 28](#); [M25 J28 Improvements](#)
Subject: RE: M25 Junction 28 - Unilateral Undertaking to London Borough of Havering and Brentwood Borough Council
Date: 07 July 2021 17:44:03
Attachments: [ANNEX 1 – Plans Showing the NMU Scheme.pdf](#)
[Annex 2 – Plan showing the Junction Section.pdf](#)

Hi Paige

Apologies, I have not included the relevant plans which were excluded in the signed and dated S106 UU sent earlier.

For completeness these are now attached. Please note, these are the same as sent before the ExA as part of REP9-070

Regards

Tom

From: Selby, Thomas
Sent: 07 July 2021 17:31
To: [REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]
Subject: M25 Junction 28 - Unilateral Undertaking to London Borough of Havering and Brentwood Borough Council

Hi Paige

Please find attached a letter and s106 UU for the attention of the Planning Inspectorate.

Thanks and regards

Thomas Selby
Highways England | Bridge House | 1 Walnut Tree Close | Guildford | Surrey | GU1 4LZ
Tel : +44 (0) 300 4701253 | **Mobile :** + 44 (0) 783 4774653
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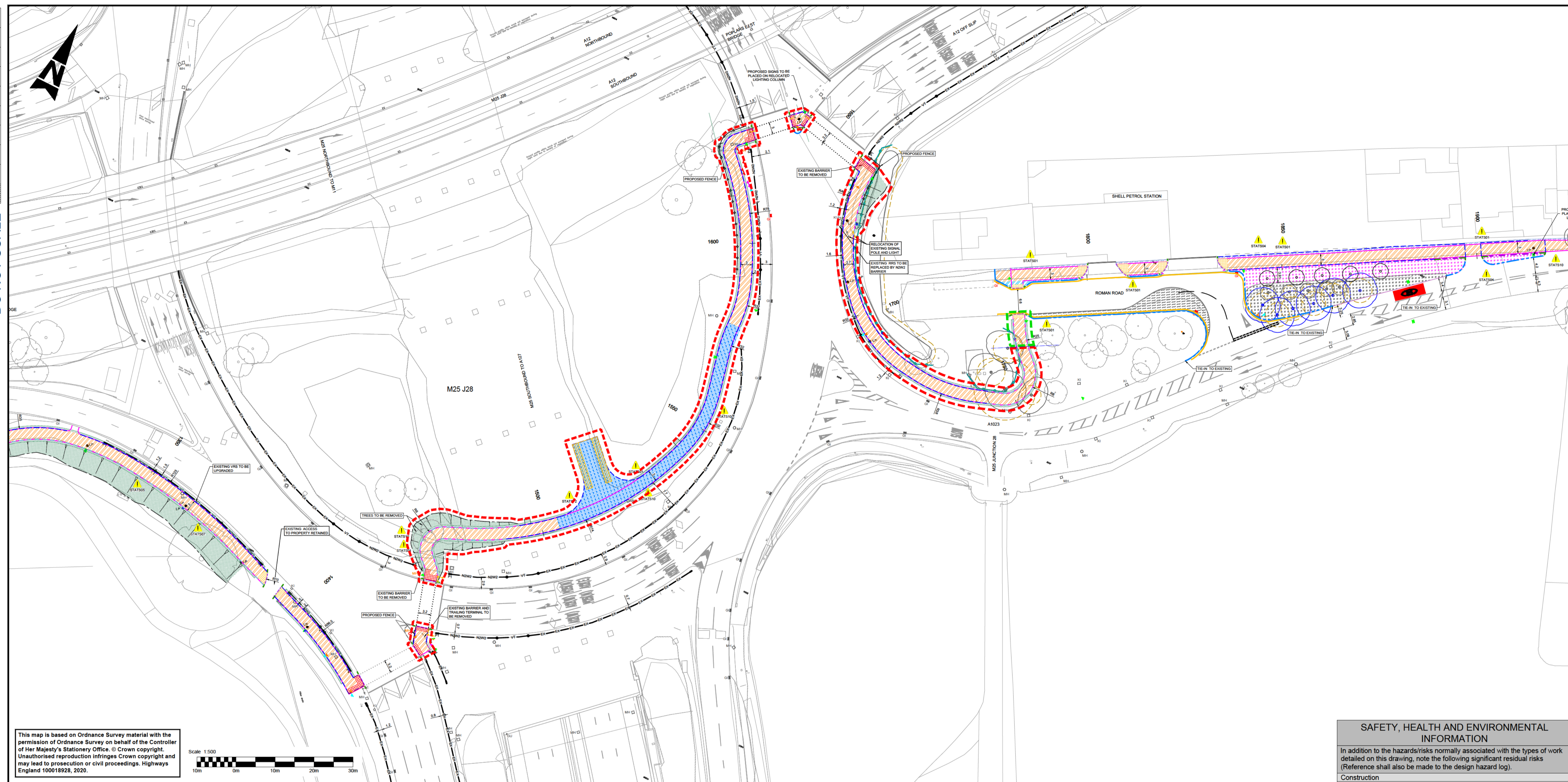
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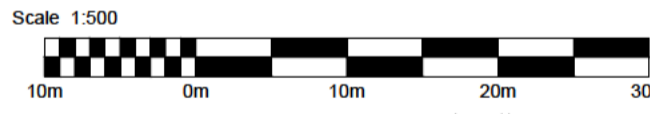
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KEY:		PROPOSED LANDSCAPE.	
	LAND OWNERSHIP BOUNDARY		PROPOSED REGRADED CARRIAGEWAY
	EXISTING TREE		PROPOSED SHARED PATH WITH MAINTENANCE VEHICLE ACCESS
	PROPOSED / RELOCATED TREE		PROPOSED FOOTPATH
	SECTION MARKER		EXISTING LANDSCAPE.
	PROPOSED SHARED PATH		PROPOSED EARTHWORKS WITH GRASS LANDSCAPING
	PROPOSED BUFFER		SITE SPECIFIC H & S HAZARDS - REFER TO SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX
	PROPOSED PROPERTY CLEARANCE		EXISTING TELEGRAPH PHONE
	PROPOSED GRASS VERGE		RELOCATED POSITION OF EXISTING TELEGRAPH PHONE

	CC/CX		EXISTING CONTROL BOX / CCTV TO BE RELOCATED
	BL		RELOCATED POSITION OF EXISTING CONTROL BOX / CCTV
	LP		EXISTING BOLLARD TO BE REMOVED
	LP		EXISTING KEEP - LEFT BOLLARD
	LP		RELOCATED KEEP - LEFT BOLLARD
	LP		EXISTING LIGHTING COLUMN TO BE RELOCATED
	LP		RELOCATED POSITION OF EXISTING LIGHTING COLUMN
	LP		RETAINED EXISTING LIGHTING COLUMN
	LP		EXISTING TRAFFIC SIGN AND POST
	LP		PROPOSED TRAFFIC SIGN AND POST
	LP		RELOCATED EXISTING TRAFFIC SIGN AND POST
	LP		EXISTING SIGN AND POST TO BE REMOVED

	NEW PCC TACTILE BLISTER PAVING (RED) 400x400x65mm		PROPOSED KB3 TRANSITION KERB
	NEW PCC TACTILE BLISTER PAVING (BUFF) 400x400x65mm		EXISTING KERB TO BE RETAINED
	EXISTING TRAFFIC SIGNAL		PROPOSED EDGE KERB
	PROPOSED TRAFFIC SIGNAL		PROPOSED WOODEN PEG
	PROPOSED DOUBLE KERB (HEIGHT - 250mm)		PROPOSED FLUSH KERB
	PROPOSED HB2 KERB (HEIGHT - 125mm)		PROPOSED PEDESTRIAN GUARD RAILING
	PROPOSED HB3 KERB (HEIGHT - 100mm)		EXISTING VRS
	PROPOSED TRANSITION KERB		PROPOSED VRS P1 TERMINAL
	PROPOSED DROPPED KERB (HEIGHT - 20mm)		PROPOSED VRS P4 TERMINAL
	PROPOSED KB1 TRANSITION KERB		PROPOSED VRS TRANSITION
	PROPOSED KB2 KERB (HEIGHT - 140mm)		CHANGE IN BARRIER TYPE
			SLOPE TO ENTRANCE

	PROPOSED KB3 TRANSITION KERB
	EXISTING KERB TO BE RETAINED
	PROPOSED EDGE KERB
	PROPOSED WOODEN PEG
	PROPOSED FLUSH KERB
	PROPOSED PEDESTRIAN GUARD RAILING
	EXISTING VRS
	PROPOSED VRS P1 TERMINAL
	PROPOSED VRS P4 TERMINAL
	PROPOSED VRS TRANSITION
	CHANGE IN BARRIER TYPE
	SLOPE TO ENTRANCE

	PROPOSED OUTFALL		EXISTING KERB INLET TO BE RETAINED		EXISTING GRATE INLET TO BE DEMOLISHED
	PROPOSED MANHOLE		EXISTING MANHOLE TO GRATE INLET TO BE RETAINED		EXISTING KERB INLET TO BE DEMOLISHED
	PROPOSED CATCH PIT		EXISTING GULLY TO BE RETAINED		EXISTING MANHOLE TO BE DEMOLISHED
	PROPOSED GRATE INLET		EXISTING MANHOLE TO BE RETAINED		EXISTING GULLY TO BE ABANDONED
	PROPOSED KERB INLET		EXISTING OUTFALL TO BE RETAINED		EXISTING MANHOLE TO BE ABANDONED
	FLOW DIRECTION		EXISTING MANHOLE TO BE DEMOLISHED		
	EXISTING MANHOLE TO KERB INLET TO BE RETAINED		EXISTING OUTFALL TO BE DEMOLISHED		
	EXISTING GRATE INLET TO BE RETAINED		EXISTING MANHOLE TO BE DEMOLISHED		

EXTENT OF NMU ROUTE PROVIDED IN M25 J28 IMPROVEMENT SCHEME	
	IN HIGHWAYS ENGLAND HIGHWAY
	IN ESSEX COUNTY COUNCIL HIGHWAY

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).	
Construction	
STATS01 - Working close to UK Power Networks (UKPN)	
STATS02 - Working close to Z	
STATS05 - Working close to W	
STATS07 - Working close to GL	
STATS10 - Working close to BTO	
Working adjacent to live traffic	
Working with hot materials	
Maintenance / Cleaning	
NONE IDENTIFIED AT THIS STAGE	
Use	
NONE IDENTIFIED AT THIS STAGE	
Decommissioning / Demolition	
NONE IDENTIFIED AT THIS STAGE	

Description		Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
First Issue		A1	CO1	ML	SRH	SRH	PG	24/06/21
Scale amended to 1:500		S2	PO2	AL	SRH	SRH	---	28/06/21
Boundaries clarified		A1	CO2	AL	SRH	SRH	PG	29/06/21

APPROVED - PUBLISHED

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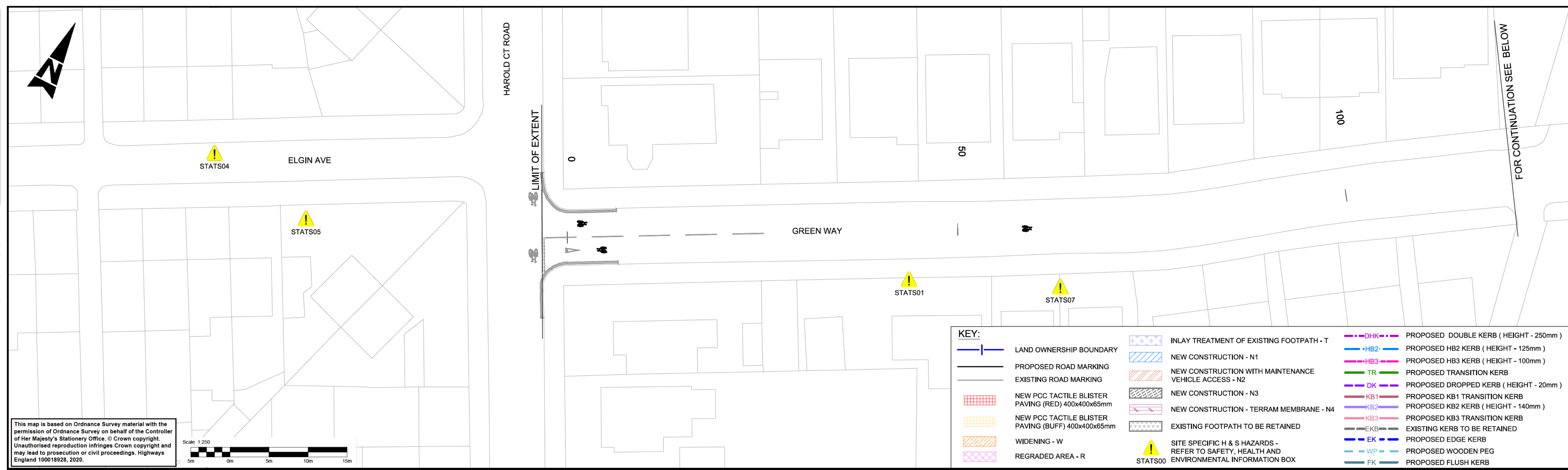
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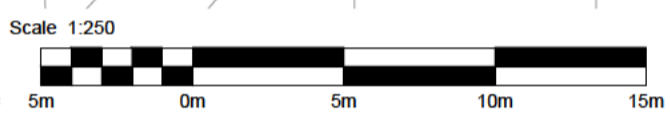
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Role	CX
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Sheet	1 of 1
Rev.	C02

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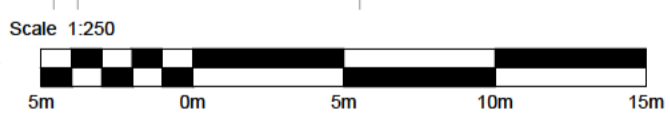
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KEY:	
	LAND OWNERSHIP BOUNDARY
	PROPOSED ROAD MARKING
	EXISTING ROAD MARKING
	NEW PCC TACTILE BLISTER PAVING (RED) 400x400x65mm
	NEW PCC TACTILE BLISTER PAVING (BUFF) 400x400x65mm
	WIDENING - W
	REGRADED AREA - R
	INLAY TREATMENT OF EXISTING FOOTPATH - T
	NEW CONSTRUCTION - N1
	NEW CONSTRUCTION WITH MAINTENANCE VEHICLE ACCESS - N2
	NEW CONSTRUCTION - N3
	NEW CONSTRUCTION - TERRAM MEMBRANE - N4
	EXISTING FOOTPATH TO BE RETAINED
	SITE SPECIFIC H & S HAZARDS - REFER TO SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX
	STATS00
	PROPOSED DOUBLE KERB (HEIGHT - 250mm)
	PROPOSED HB2 KERB (HEIGHT - 125mm)
	PROPOSED HB3 KERB (HEIGHT - 100mm)
	PROPOSED TRANSITION KERB
	PROPOSED DROPPED KERB (HEIGHT - 20mm)
	PROPOSED KB1 TRANSITION KERB
	PROPOSED KB2 KERB (HEIGHT - 140mm)
	PROPOSED KB3 TRANSITION KERB
	EXISTING KERB TO BE RETAINED
	PROPOSED EDGE KERB
	PROPOSED WOODEN PEG
	PROPOSED FLUSH KERB



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- FOR STANDARD DETAILS REFER DRAWING HE601750-ATK-HGN-XX_ML-DE-CH-000001 & 000002.
- FOR PAVEMENT CONSTRUCTION DETAILS REFER TO TYPICAL CROSS SECTION DRAWINGS HE601750-ATK-HGN-XX_ML-XS-DR-CH-000001 TO 000003.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).

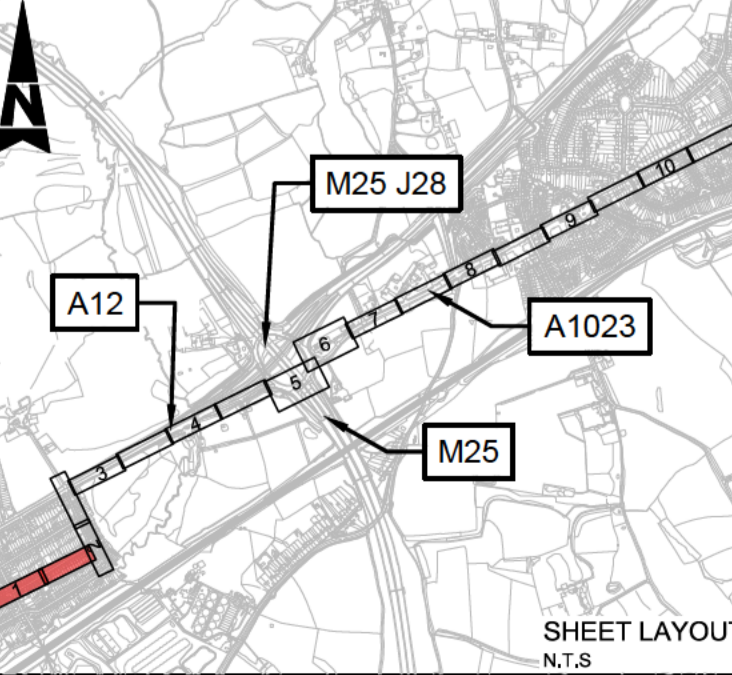
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 STATS04 - Working close to Thames Water_Water (TW).
 STATS05 - Working close to W.
 STATS06 - Working close to Virgin Media (V-M).
 STATS07 - Working close to GL.
 STATS10 - Working close to BTO

Working adjacent to live traffic
 Working with hot materials

Maintenance / Cleaning
 NONE IDENTIFIED AT THIS STAGE

Use
 Dust And Noise Pollution

Decommissioning / Demolition
 NONE IDENTIFIED AT THIS STAGE



Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
	S3	C01	SS	PDM	GB	KP	13/05/20

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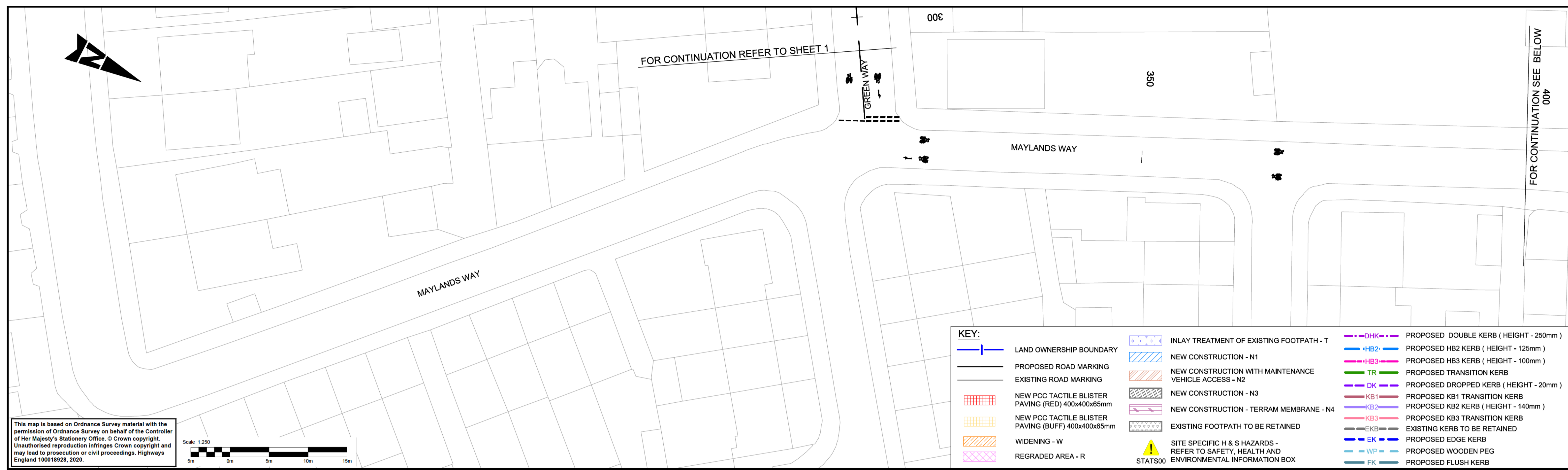
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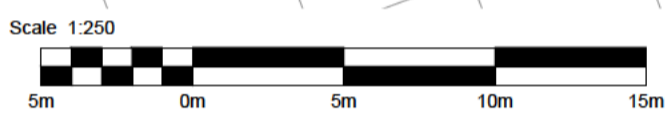
Drawing Suitability	Status	Project Title
	S3	M25 J28 Designated Funds Detailed Design
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Client	Originator	Volume
Location	Type	Role
Original Size	Scale	Project Ref. No.
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		Rev
		C01

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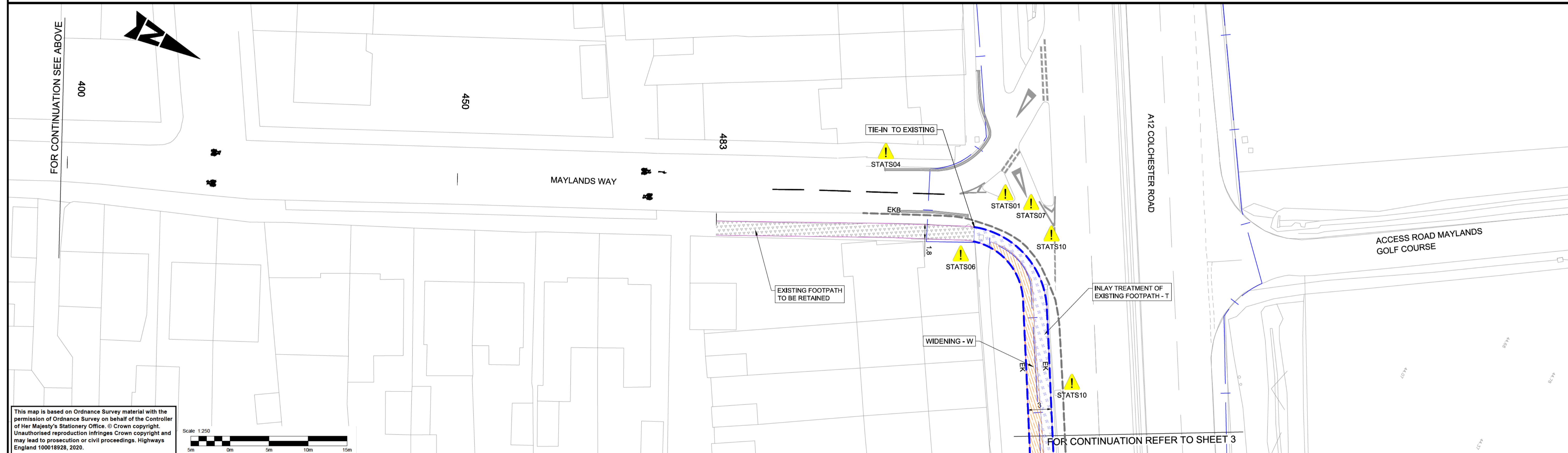


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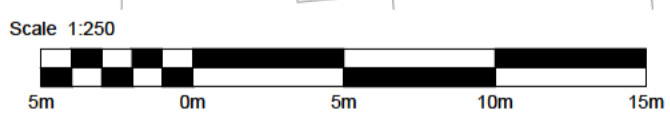


KEY:

	LAND OWNERSHIP BOUNDARY		INLAY TREATMENT OF EXISTING FOOTPATH - T		PROPOSED DOUBLE KERB (HEIGHT - 250mm)
	PROPOSED ROAD MARKING		NEW CONSTRUCTION - N1		PROPOSED HB2 KERB (HEIGHT - 125mm)
	EXISTING ROAD MARKING		NEW CONSTRUCTION WITH MAINTENANCE VEHICLE ACCESS - N2		PROPOSED HB3 KERB (HEIGHT - 100mm)
	NEW PCC TACTILE BLISTER PAVING (RED) 400x400x65mm		NEW CONSTRUCTION - N3		PROPOSED TRANSITION KERB
	NEW PCC TACTILE BLISTER PAVING (BUFF) 400x400x65mm		NEW CONSTRUCTION - TERRAM MEMBRANE - N4		PROPOSED DROPPED KERB (HEIGHT - 20mm)
	WIDENING - W		EXISTING FOOTPATH TO BE RETAINED		PROPOSED KB1 TRANSITION KERB
	REGRADED AREA - R		SITE SPECIFIC H & S HAZARDS - REFER TO SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX		PROPOSED KB2 KERB (HEIGHT - 140mm)
					PROPOSED KB3 TRANSITION KERB
					EXISTING KERB TO BE RETAINED
					PROPOSED EDGE KERB
					PROPOSED WOODEN PEG
					PROPOSED FLUSH KERB



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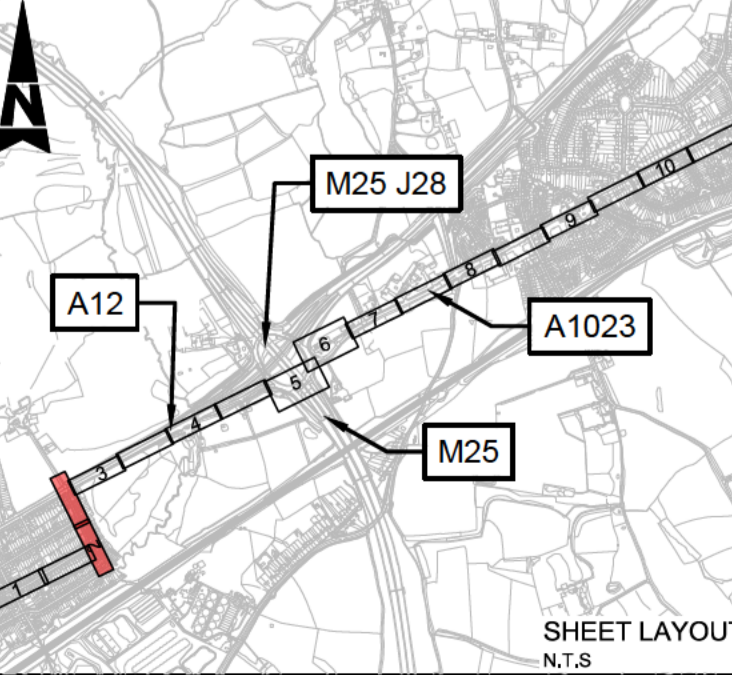


- NOTES:**
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 - FOR PAVEMENT CONSTRUCTION DETAILS REFER TO TYPICAL CROSS SECTION DRAWINGS HE601750-ATK-HGN-XX_ML-XS-DR-CH-000001 TO 000003.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).

Construction	STATS01 - Working close to UK Power networks (UKPN). STATS04 - Working close to Thames Water_Water (TW). STATS05 - Working close to W. STATS06 - Working close to Virgin Media (V-M). STATS07 - Working close to GL. STATS10 - Working close to BTO
Working adjacent to live traffic	Working adjacent to live traffic
Working with hot materials	Working with hot materials
Maintenance / Cleaning	NONE IDENTIFIED AT THIS STAGE
Use	NONE IDENTIFIED AT THIS STAGE
Dust And Noise Pollution	NONE IDENTIFIED AT THIS STAGE
Decommissioning / Demolition	NONE IDENTIFIED AT THIS STAGE



Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description	S3		SS	PDM	GB	KP	13/05/20

Drawing Suitability: S3

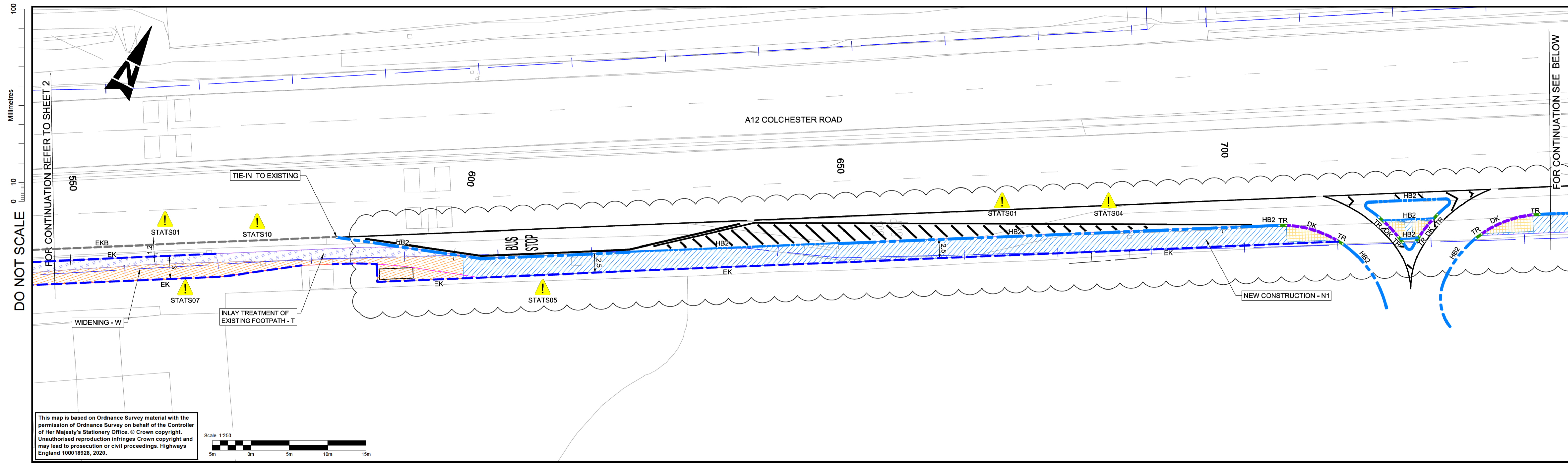
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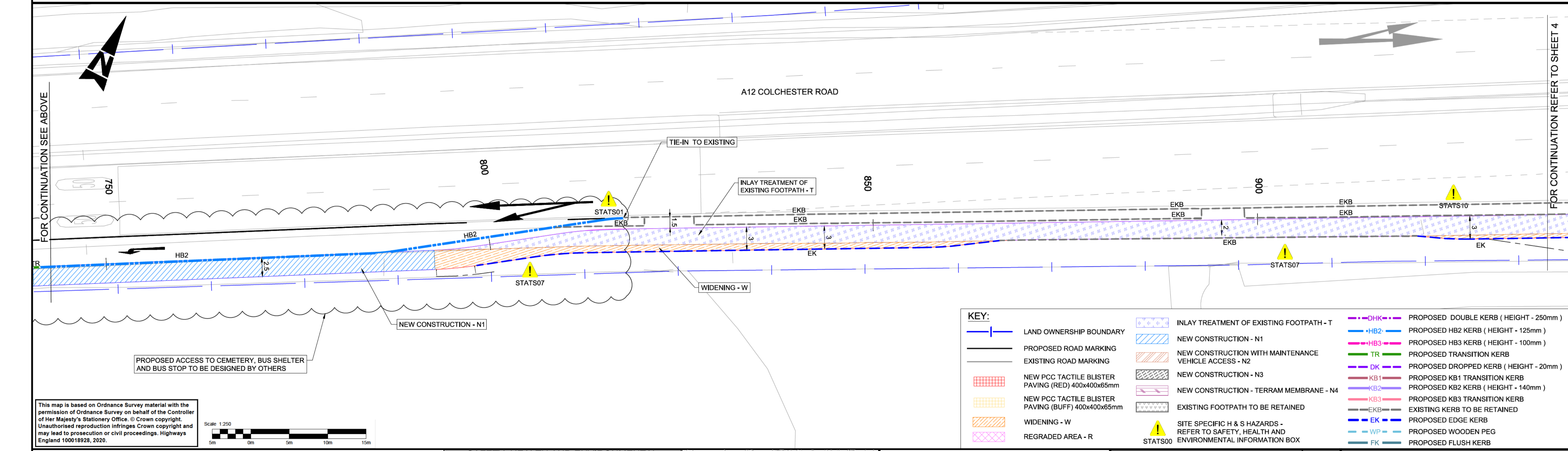
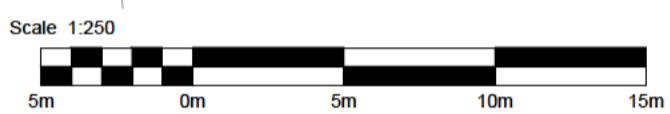
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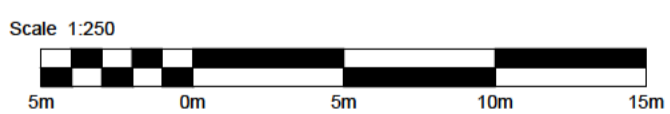
Project Title	M25 J28 Designated Funds Detailed Design
Drawing Title	M25 J28 SHARED PATH KERBS & PAVEMENT LAYOUT
Drawing Number	HE601750 - ATK - HKF -
Project	XX_ML - DR - CH - 001102
Location	
Original Size	A1
Scale	1:250
Project Ref. No.	5158157
Sheet	2 of 10
Rev	C01



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KEY:

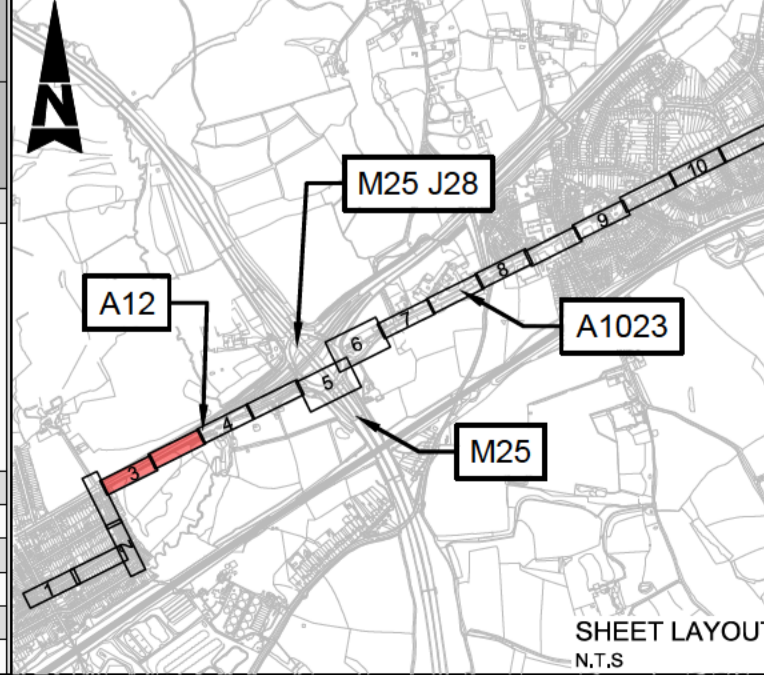
	LAND OWNERSHIP BOUNDARY		PROPOSED DOUBLE KERB (HEIGHT - 250mm)
	PROPOSED ROAD MARKING		PROPOSED HB2 KERB (HEIGHT - 125mm)
	EXISTING ROAD MARKING		PROPOSED HB3 KERB (HEIGHT - 100mm)
	NEW PCC TACTILE BLISTER PAVING (RED) 400x400x65mm		PROPOSED TRANSITION KERB
	NEW PCC TACTILE BLISTER PAVING (BUFF) 400x400x65mm		PROPOSED DROPPED KERB (HEIGHT - 20mm)
	WIDENING - W		PROPOSED KB1 TRANSITION KERB
	REGRADED AREA - R		PROPOSED KB2 KERB (HEIGHT - 140mm)
	SITE SPECIFIC H & S HAZARDS - REFER TO SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX		PROPOSED KB3 TRANSITION KERB
	INLAY TREATMENT OF EXISTING FOOTPATH - T		EXISTING KERB TO BE RETAINED
	NEW CONSTRUCTION - N1		PROPOSED EDGE KERB
	NEW CONSTRUCTION WITH MAINTENANCE VEHICLE ACCESS - N2		PROPOSED WOODEN PEG
	NEW CONSTRUCTION - N3		PROPOSED FLUSH KERB
	NEW CONSTRUCTION - TERRAM MEMBRANE - N4		
	EXISTING FOOTPATH TO BE RETAINED		

- NOTES:**
- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
 - FOR GENERAL ARRANGEMENT DETAILS REFER TO HE601750-ATK-HGN-XX_ML-DR-CH-000101 TO 000110.
 - FOR STANDARD DETAILS REFER DRAWING HE601750-ATK-HGN-XX_ML-DE-CH-000001 & 000002.
 - FOR PAVEMENT CONSTRUCTION DETAILS REFER TO TYPICAL CROSS SECTION DRAWINGS HE601750-ATK-HGN-XX_ML-XS-DR-CH-000001 TO 000003.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).

Construction	STATS01 - Working close to UK Power networks (UKPN). STATS04 - Working close to Thames Water_Water (TW). STATS05 - Working close to W. STATS06 - Working close to Virgin Media (V-M). STATS07 - Working close to GL. STATS10 - Working close to BTO
Working adjacent to live traffic	Working adjacent to live traffic
Working with hot materials	Working with hot materials
Maintenance / Cleaning	NONE IDENTIFIED AT THIS STAGE
Use	NONE IDENTIFIED AT THIS STAGE
Dust And Noise Pollution	NONE IDENTIFIED AT THIS STAGE
Decommissioning / Demolition	NONE IDENTIFIED AT THIS STAGE



Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
	S3						13/05/20

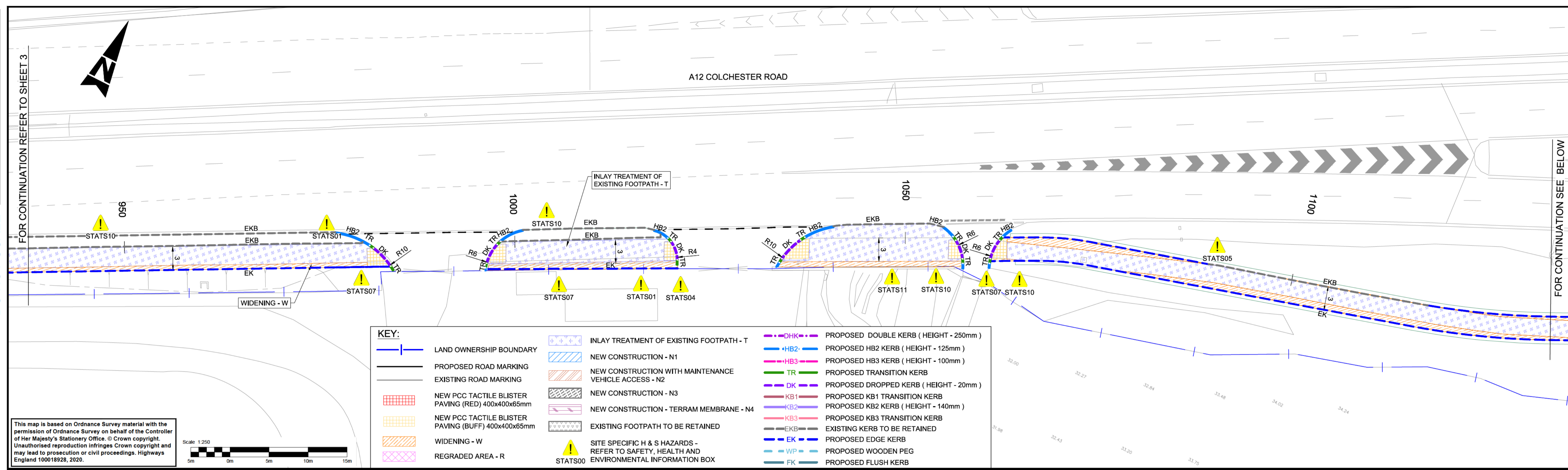
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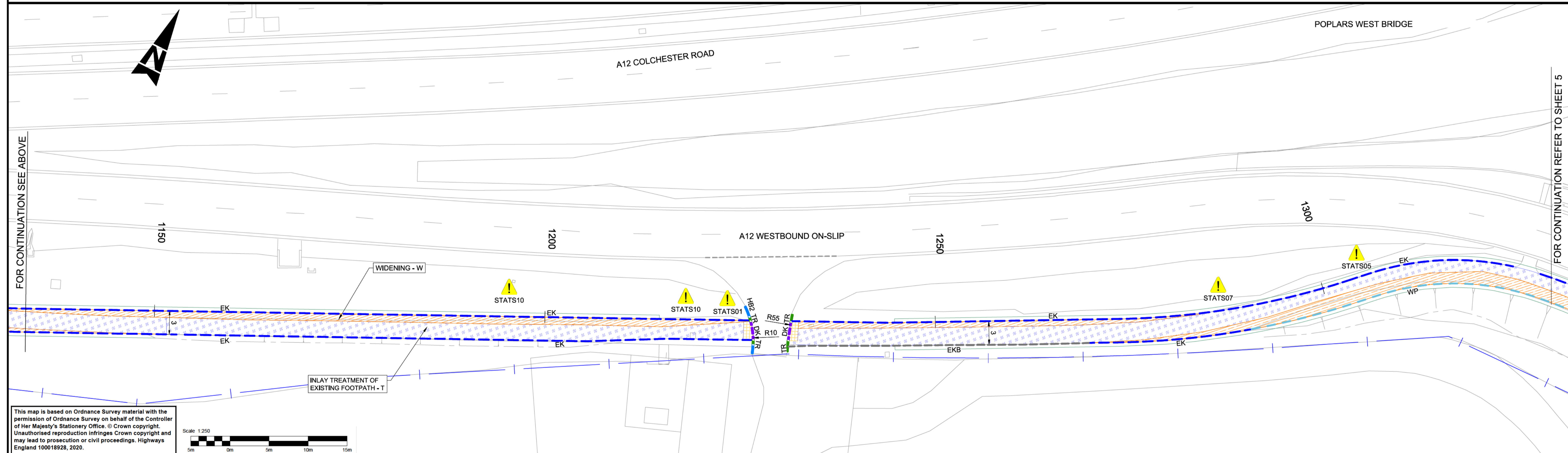
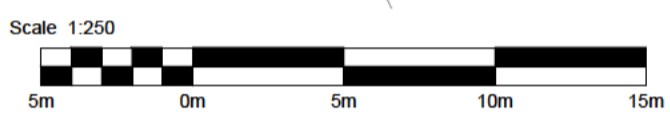
Working on behalf of
highways england

Drawing Suitability	S3	Project Title	M25 J28 Designated Funds Detailed Design
Drawing Title	M25 J28 SHARED PATH KERBS & PAVEMENT LAYOUT		
Drawing Number	HE601750	Originator	ATK
Project	XX_ML	Volume	- DR - CH - 001103
Location			
Original Size	A1	Scale	1:250
Project Ref. No.	5158157	Sheet	3 of 10
Rev	C01		

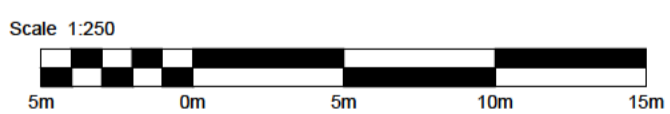
DO NOT SCALE
0 10 100
Millimetres



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NOTES:

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- FOR GENERAL ARRANGEMENT DETAILS REFER TO HE601750-ATK-HGN-XX-ML-DR-CH-000101 TO 000110.
- FOR STANDARD DETAILS REFER DRAWING HE601750-ATK-HGN-XX-ML-DE-CH-000001 & 000002.
- FOR PAVEMENT CONSTRUCTION DETAILS REFER TO TYPICAL CROSS SECTION DRAWINGS HE601750-ATK-HGN-XX-ML-XS-DR-CH-000001 TO 000003.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).

Construction

- STATS01 - Working close to UK Power networks (UKPN).
- STATS04 - Working close to Thames Water_Water (TW).
- STATS05 - Working close to W.
- STATS06 - Working close to Virgin Media (V-M).
- STATS07 - Working close to GL.
- STATS10 - Working close to BTO

Working adjacent to live traffic
Working with hot materials

Maintenance / Cleaning

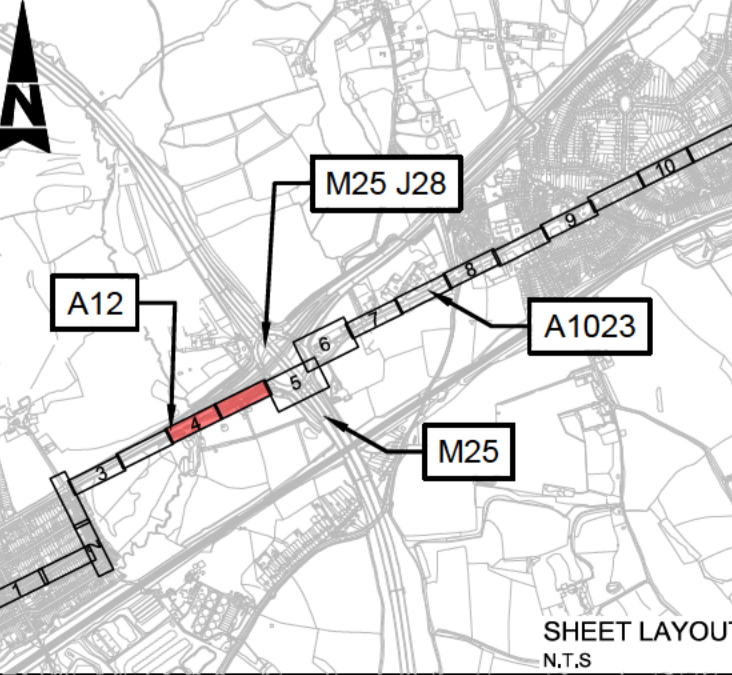
NONE IDENTIFIED AT THIS STAGE

Use

Dust And Noise Pollution

Decommissioning / Demolition

NONE IDENTIFIED AT THIS STAGE



Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
	S3						13/05/20

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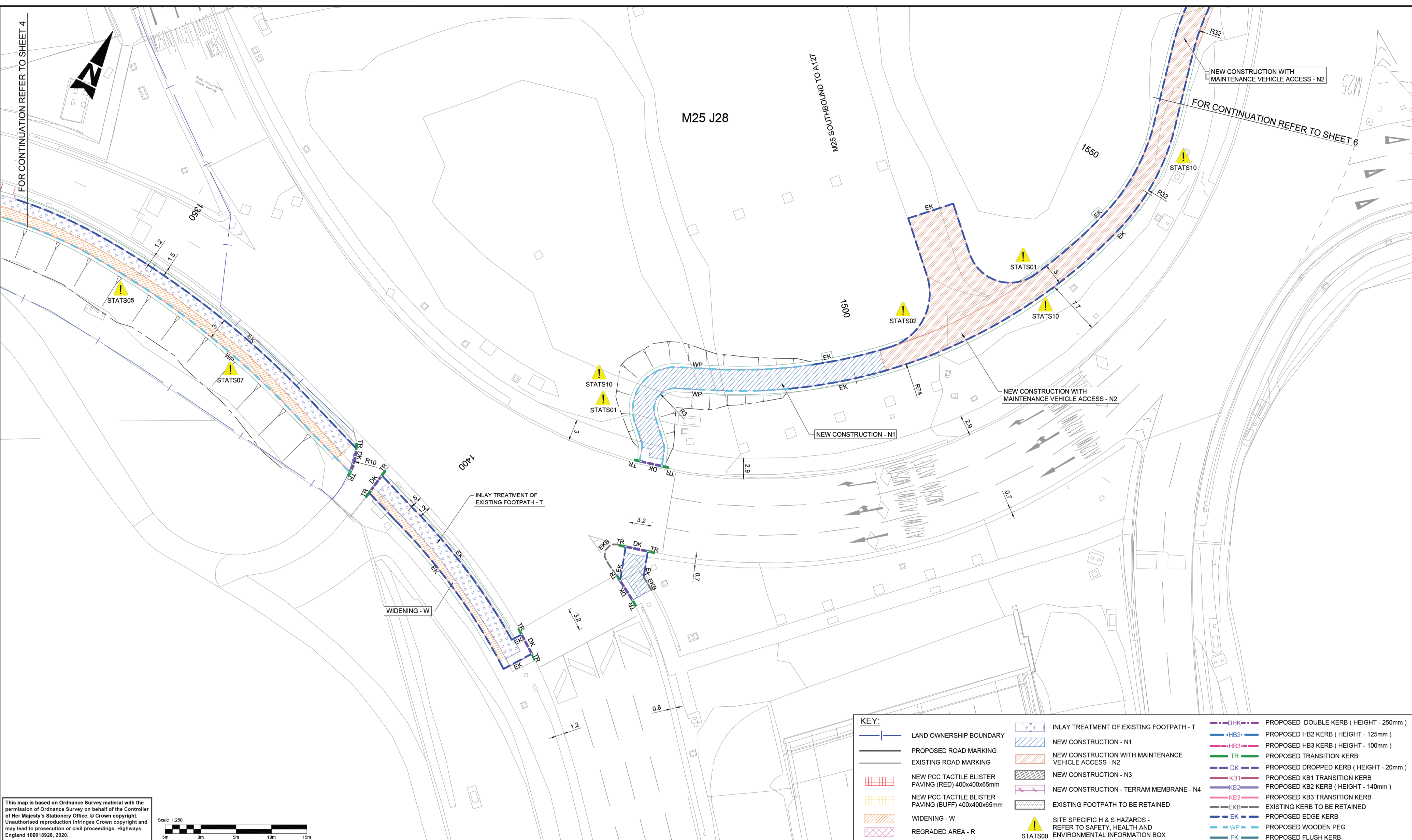
Amlyn House
Atkins 4th Floor
90-96 Victoria Road
Chelmsford
Essex CM1 1QU
Tel: +44 (0)1245 245245
Fax: +44 (0)1245 345010
www.atkinglobal.com

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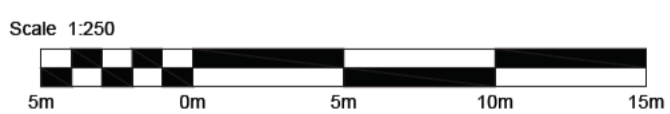
Drawing Suitability	Status	Project Title
	S3	M25 J28 Designated Funds Detailed Design
Drawing Title		
M25 J28 SHARED PATH KERBS & PAVEMENT LAYOUT		
Drawing Number	Originator	Volume
HE601750	ATK	HKF
Project		
XX-ML - DR - CH - 001104		
Location	Type	Role
A1		
Original Size	Scale	Project Ref. No.
A1	1:250	5158157
		Sheet
		4 of 10
		Rev
		C01

DO NOT SCALE

Millimetres
0 10 100

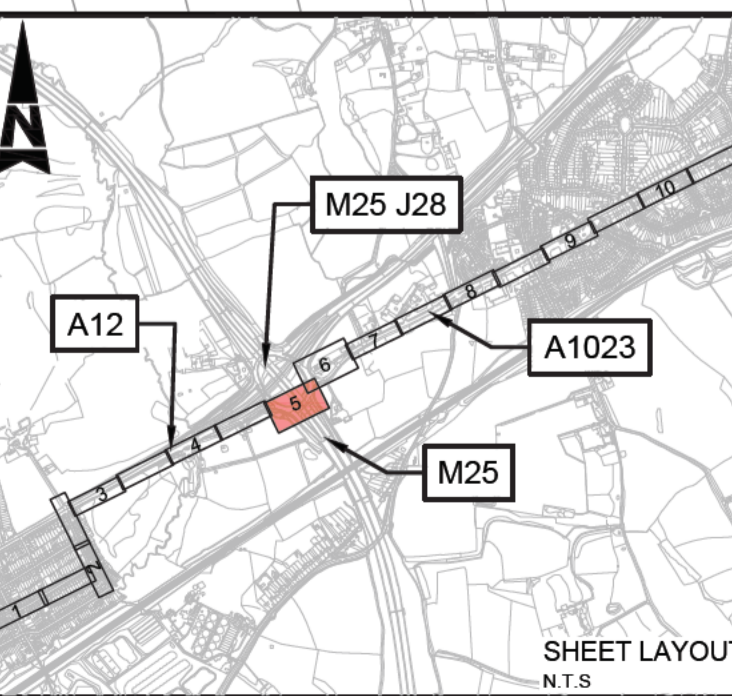


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- NOTES:**
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 - FOR GENERAL ARRANGEMENT DETAILS REFER TO HE601750-ATK-HGN-XX_ML-DR-CH-000101 TO 000110.
 - FOR STANDARD DETAILS REFER DRAWING HE601750-ATK-HGN-XX_ML-DE-CH-000001 & 000002.
 - FOR PAVEMENT CONSTRUCTION DETAILS REFER TO TYPICAL CROSS SECTION DRAWINGS HE601750-ATK-HGN-XX_ML-XS-DR-CH-000001 TO 000003.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).	
Construction STATS01 - Working close to UK Power networks (UKPN). STATS04 - Working close to Thames Water_Water (TW). STATS05 - Working close to W. STATS06 - Working close to Virgin Media (V-M). STATS07 - Working close to GL. STATS10 - Working close to BTO. Working adjacent to live traffic Working with hot materials	
Maintenance / Cleaning NONE IDENTIFIED AT THIS STAGE	
Use Dust And Noise Pollution Decommissioning / Demolition NONE IDENTIFIED AT THIS STAGE	



Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
FOR INFORMATION	S3	CO1	SS	Checked PDM	Reviewed GB	Authorised KP	13/05/20
FOR CONSTRUCTION	S3	CO2	SN	Checked PDM	Reviewed GB	Authorised KP	10/05/20

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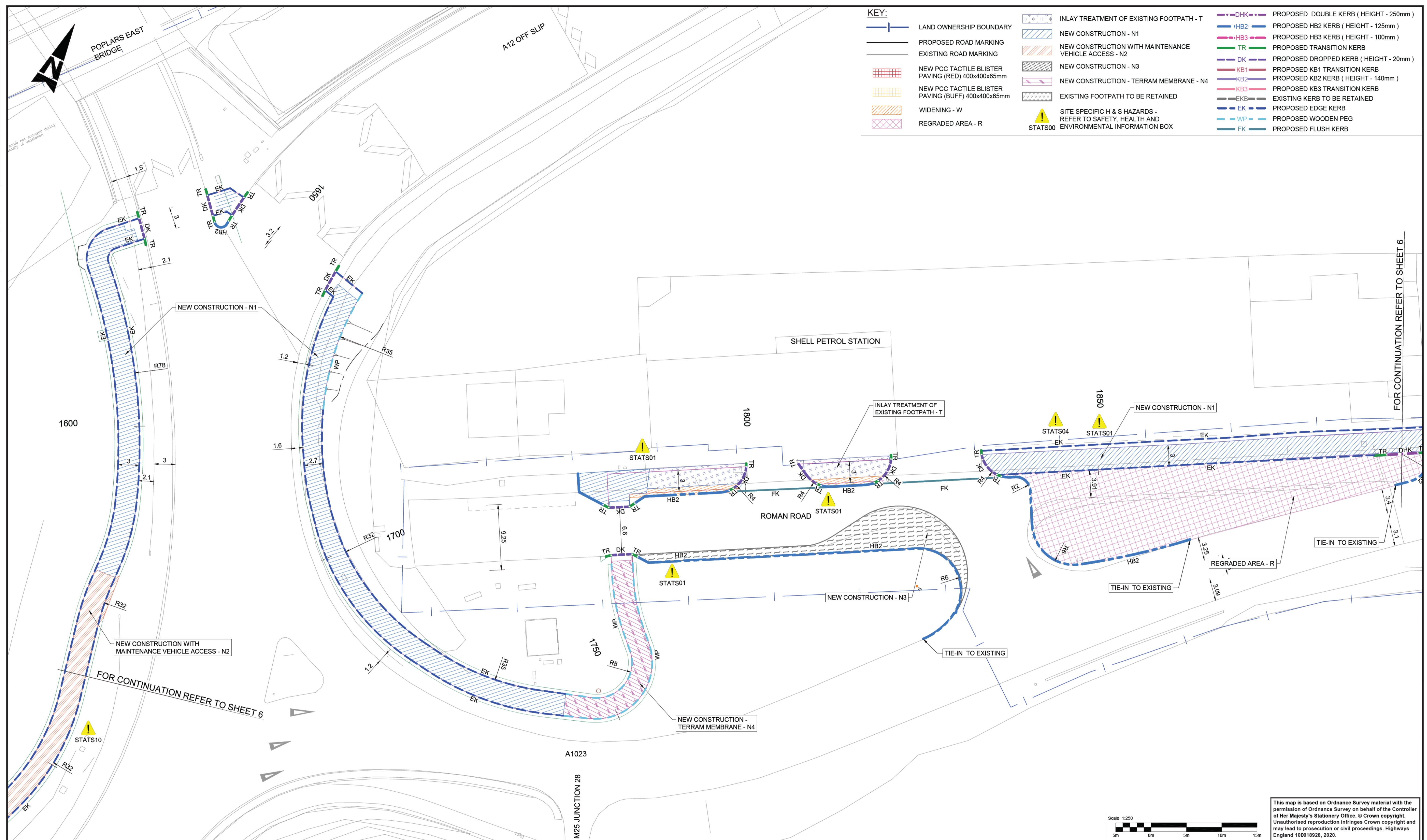
Amlyn House
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90-96 Victoria Road
Chelmsford
Essex CM1 1QU
Tel: +44 (0)1245 245245
Fax: +44 (0)1245 345010
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Project Title	M25 J28 Designated Funds Detailed Design
Project Number	HE601750 - ATK - HKF -
Project Name	XX_ML - DR - CH - 001105
Project Location	
Original Size	A1
Scale	1:250
Project Ref. No.	5158157
Sheet	5 of 10
Rev.	C02

DO NOT SCALE

Millimetres



KEY:

	LAND OWNERSHIP BOUNDARY		INLAY TREATMENT OF EXISTING FOOTPATH - T		PROPOSED DOUBLE KERB (HEIGHT - 250mm)
	PROPOSED ROAD MARKING		NEW CONSTRUCTION - N1		PROPOSED HB2 KERB (HEIGHT - 125mm)
	EXISTING ROAD MARKING		NEW CONSTRUCTION WITH MAINTENANCE VEHICLE ACCESS - N2		PROPOSED HB3 KERB (HEIGHT - 100mm)
	NEW PCC TACTILE BLISTER PAVING (RED) 400x400x65mm		NEW CONSTRUCTION - N3		PROPOSED TRANSITION KERB
	NEW PCC TACTILE BLISTER PAVING (BUFF) 400x400x65mm		NEW CONSTRUCTION - TERRAM MEMBRANE - N4		PROPOSED DROPPED KERB (HEIGHT - 20mm)
	WIDENING - W		EXISTING FOOTPATH TO BE RETAINED		PROPOSED KB1 TRANSITION KERB
	REGRADED AREA - R		SITE SPECIFIC H & S HAZARDS - REFER TO SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX		PROPOSED KB2 KERB (HEIGHT - 140mm)
			STATS00		PROPOSED KB3 TRANSITION KERB
					EXISTING KERB TO BE RETAINED
					PROPOSED EDGE KERB
					PROPOSED WOODEN PEG
					PROPOSED FLUSH KERB

NOTES:

- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- FOR GENERAL ARRANGEMENT DETAILS REFER TO HE601750-ATK-HGN-XX_ML-DR-CH-000101 TO 000110.
- FOR STANDARD DETAILS REFER DRAWING HE601750-ATK-HGN-XX_ML-DE-CH-000001 & 000002.
- FOR PAVEMENT CONSTRUCTION DETAILS REFER TO TYPICAL CROSS SECTION DRAWINGS HE601750-ATK-HGN-XX_ML-XS-DR-CH-000001 TO 000003.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).

Construction

- STATS01 - Working close to UK Power networks (UKPN).
- STATS04 - Working close to Thames Water_Water (TW).
- STATS05 - Working close to W.
- STATS06 - Working close to Virgin Media (V-M).
- STATS07 - Working close to GL.
- STATS10 - Working close to BTO

Working adjacent to live traffic
Working with hot materials

Maintenance / Cleaning

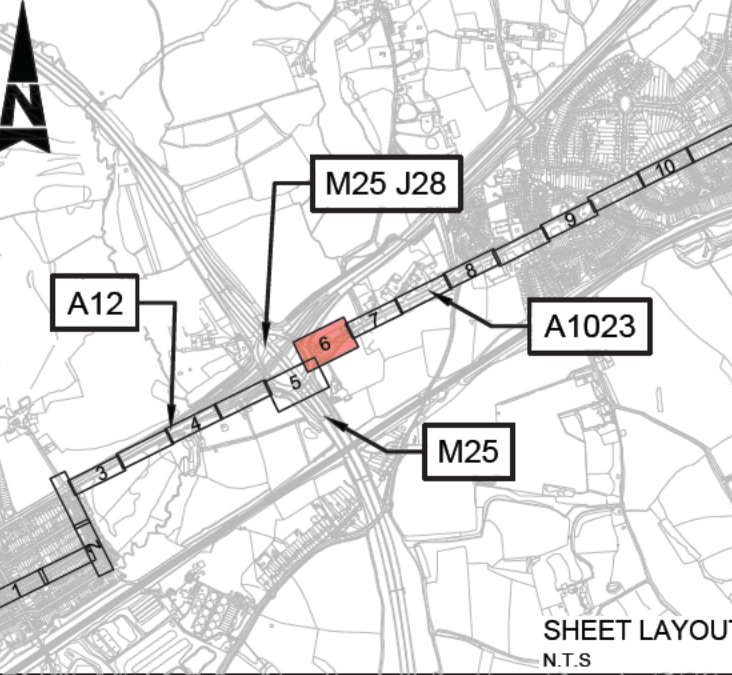
NONE IDENTIFIED AT THIS STAGE

Use

Dust And Noise Pollution

Decommissioning / Demolition

NONE IDENTIFIED AT THIS STAGE



Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
FOR INFORMATION	S3	CO1	SS	Checked	Reviewed	Authorised	13/05/20
FOR CONSTRUCTION	S3	CO2	SN	Checked	Reviewed	Authorised	10/05/20

Drawing Suitability: S3

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Fax: +44 (0)1245 345010
www.atkinsglobal.com

Project Title	M25 J28 Designated Funds Detailed Design
Drawing Title	M25 J28 SHARED PATH KERB LAYOUT
Drawing Number	HE601750 - ATK - HKF -
Project	XX_ML - DR - CH - 001106
Location	
Original Size	A1
Scale	1:250
Project Ref. No.	5158157
Sheet	6 of 10
Rev.	C02

FOR CONTINUATION REFER TO SHEET 6

POPLARS EAST BRIDGE

A12 OFF SLIP

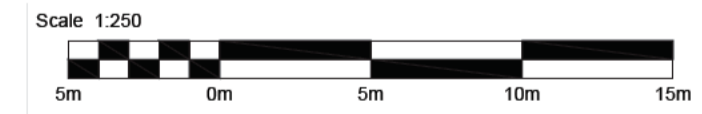
SHELL PETROL STATION

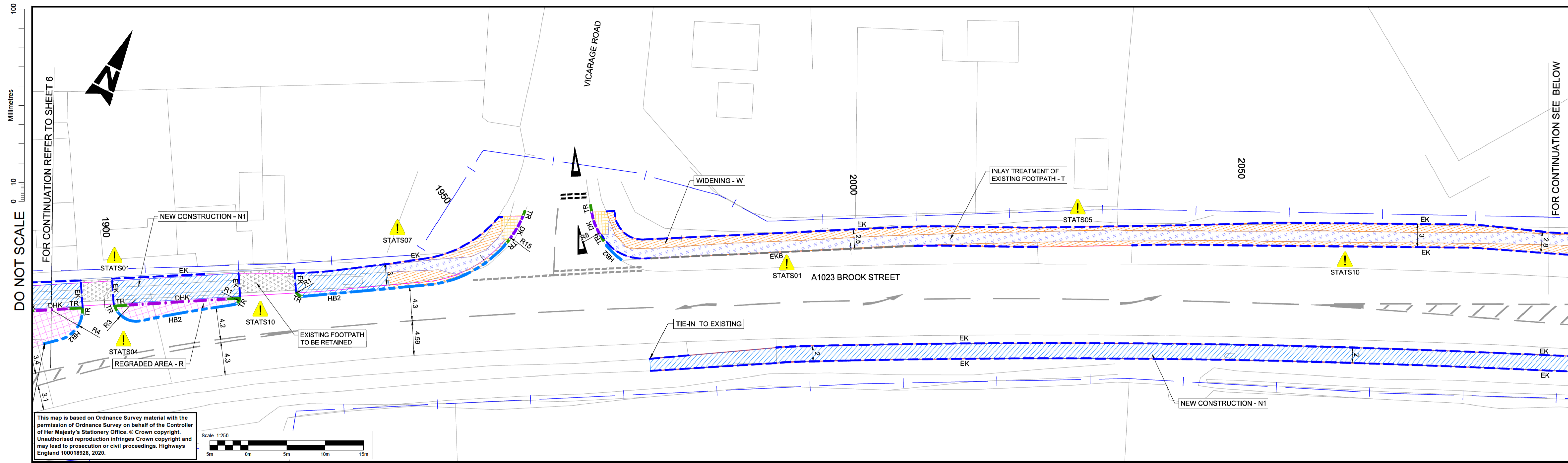
ROMAN ROAD

A1023

M25 JUNCTION 28

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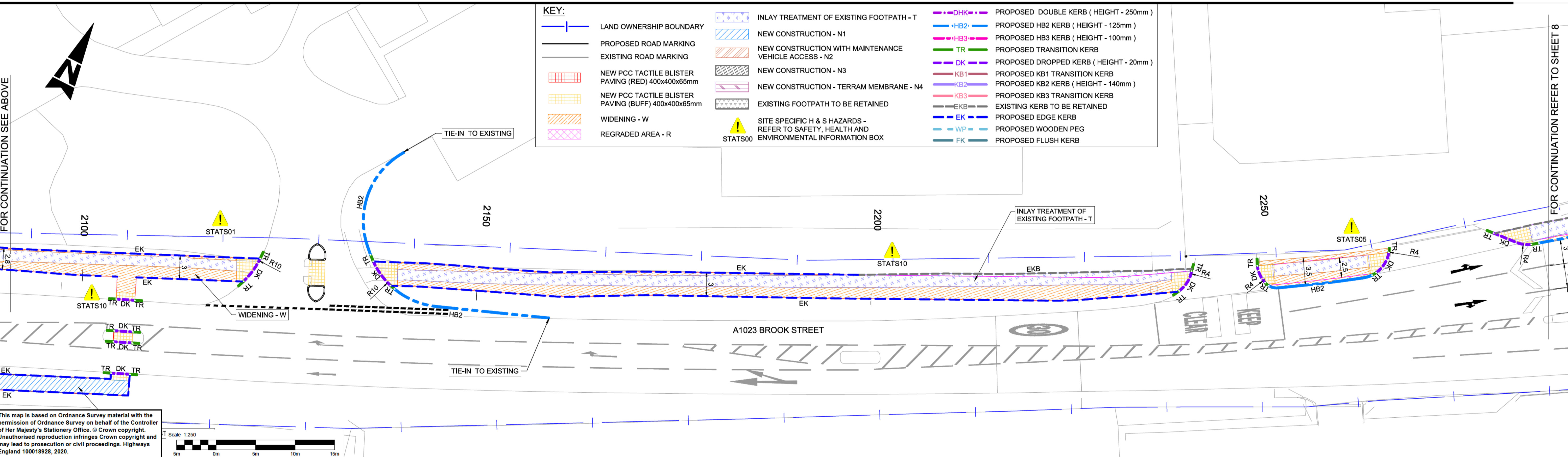




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DO NOT SCALE

FOR CONTINUATION SEE BELOW



KEY:

	LAND OWNERSHIP BOUNDARY		INLAY TREATMENT OF EXISTING FOOTPATH - T		PROPOSED DOUBLE KERB (HEIGHT - 250mm)
	PROPOSED ROAD MARKING		NEW CONSTRUCTION - N1		PROPOSED HB2 KERB (HEIGHT - 125mm)
	EXISTING ROAD MARKING		NEW CONSTRUCTION WITH MAINTENANCE VEHICLE ACCESS - N2		PROPOSED HB3 KERB (HEIGHT - 100mm)
	NEW PCC TACTILE BLISTER PAVING (RED) 400x400x65mm		NEW CONSTRUCTION - N3		PROPOSED TRANSITION KERB
	NEW PCC TACTILE BLISTER PAVING (BUFF) 400x400x65mm		NEW CONSTRUCTION - TERRAM MEMBRANE - N4		PROPOSED DROPPED KERB (HEIGHT - 20mm)
	WIDENING - W		EXISTING FOOTPATH TO BE RETAINED		PROPOSED KB1 TRANSITION KERB
	REGRADED AREA - R		SITE SPECIFIC H & S HAZARDS - REFER TO SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX		PROPOSED KB2 KERB (HEIGHT - 140mm)
					PROPOSED KB3 TRANSITION KERB
					EXISTING KERB TO BE RETAINED
					PROPOSED EDGE KERB
					PROPOSED WOODEN PEG
					PROPOSED FLUSH KERB

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FOR CONTINUATION SEE ABOVE

FOR CONTINUATION REFER TO SHEET 8

NOTES:

- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- FOR GENERAL ARRANGEMENT DETAILS REFER TO HE601750-ATK-HGN-XX_ML-DR-CH-000101 TO 000110.
- FOR STANDARD DETAILS REFER DRAWING HE601750-ATK-HGN-XX_ML-DE-CH-000001 & 000002.
- FOR PAVEMENT CONSTRUCTION DETAILS REFER TO TYPICAL CROSS SECTION DRAWINGS HE601750-ATK-HGN-XX_ML-DR-CH-000001 TO 000003.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

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Construction

- STATS01 - Working close to UK Power networks (UKPN).
- STATS04 - Working close to Thames Water_Water (TW).
- STATS05 - Working close to W.
- STATS06 - Working close to Virgin Media (V-M).
- STATS07 - Working close to GL.
- STATS10 - Working close to BTO.

Working adjacent to live traffic
Working with hot materials

Maintenance / Cleaning

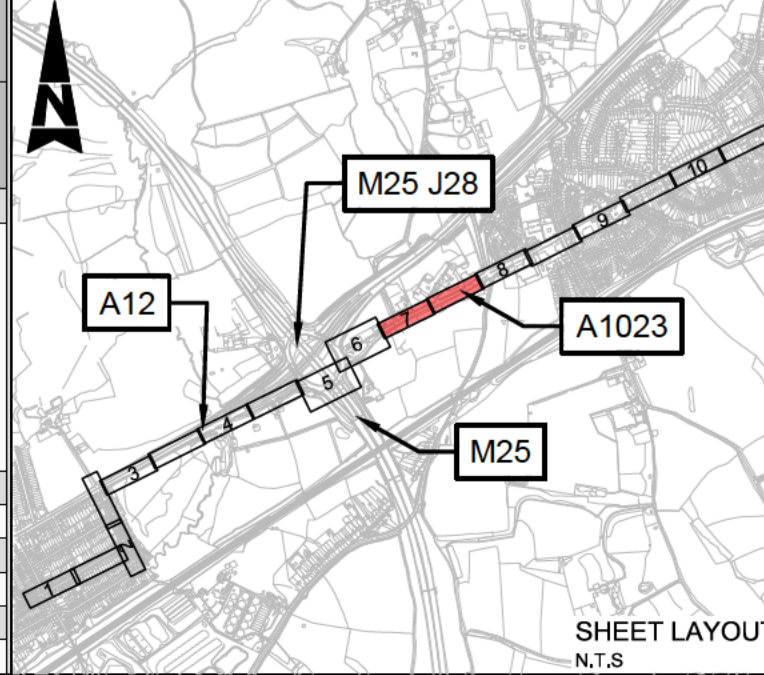
NONE IDENTIFIED AT THIS STAGE

Use

Dust And Noise Pollution

Decommissioning / Demolition

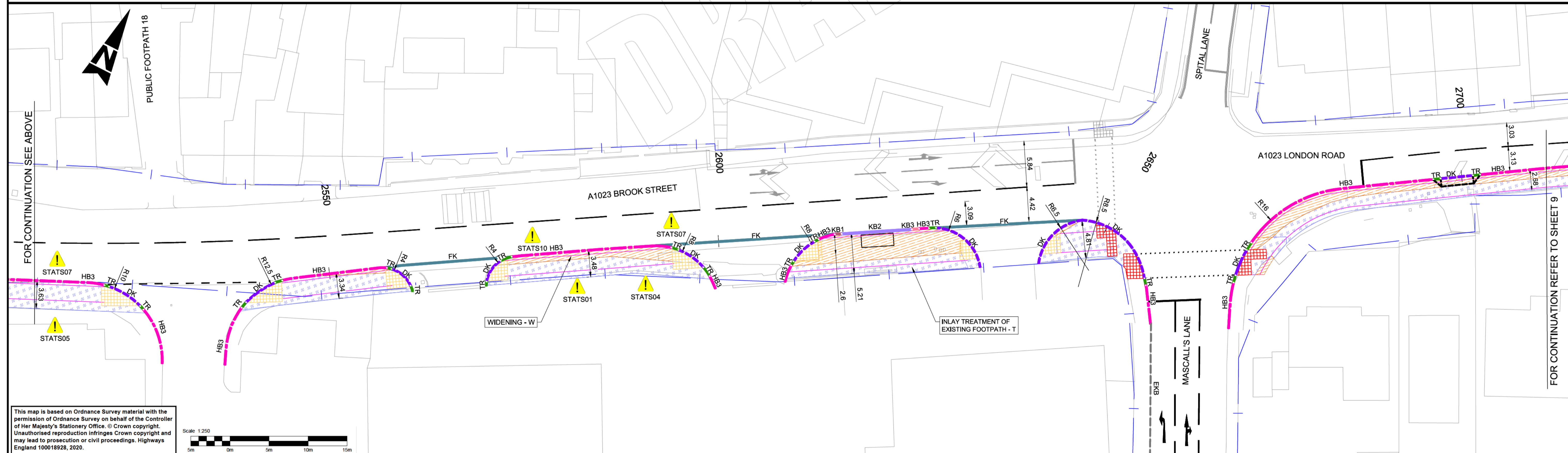
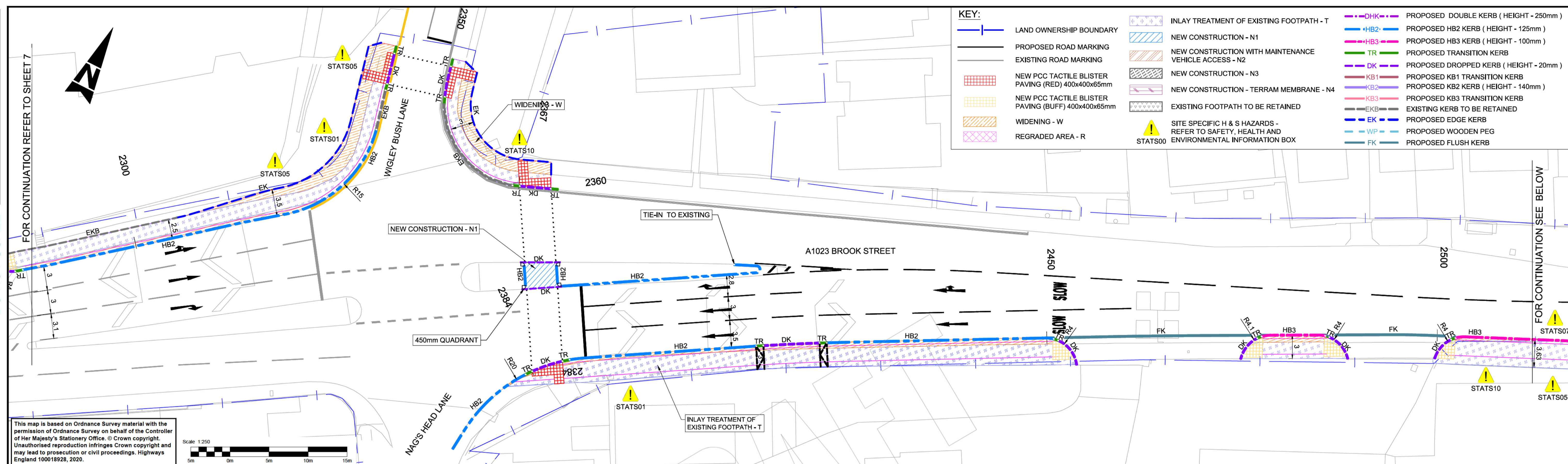
NONE IDENTIFIED AT THIS STAGE



Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description	S3	CO1	SS	PDM	GB	KP	13/05/20

Drawing Suitability	Status	Project Title
	S3	M25 J28 Designated Funds Detailed Design
Amlyn House Atkins 4th Floor 90-96 Victoria Road Chelmsford Essex CM1 1QU Tel: +44 (0)1245 245245 Fax: +44 (0)1245 345010 www.atkinsglobal.com		
Working on behalf of 		
Drawing Number	Originator	Volume
HE601750 - ATK - HKF -	XX_ML	- DR - CH - 001107
Location	Type	Role
Original Size	Scale	Project Ref. No.
A1	1:250	5158157
Sheet	1 of 10	Rev
C01		

DO NOT SCALE
Millimetres
0 10 100



NOTES:

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- FOR STANDARD DETAILS REFER DRAWING HE601750-ATK-HGN-XX_ML-DE-CH-000001 & 000002.
- FOR PAVEMENT CONSTRUCTION DETAILS REFER TO TYPICAL CROSS SECTION DRAWINGS HE601750-ATK-HGN-XX_ML-DR-CH-000001 TO 000003.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

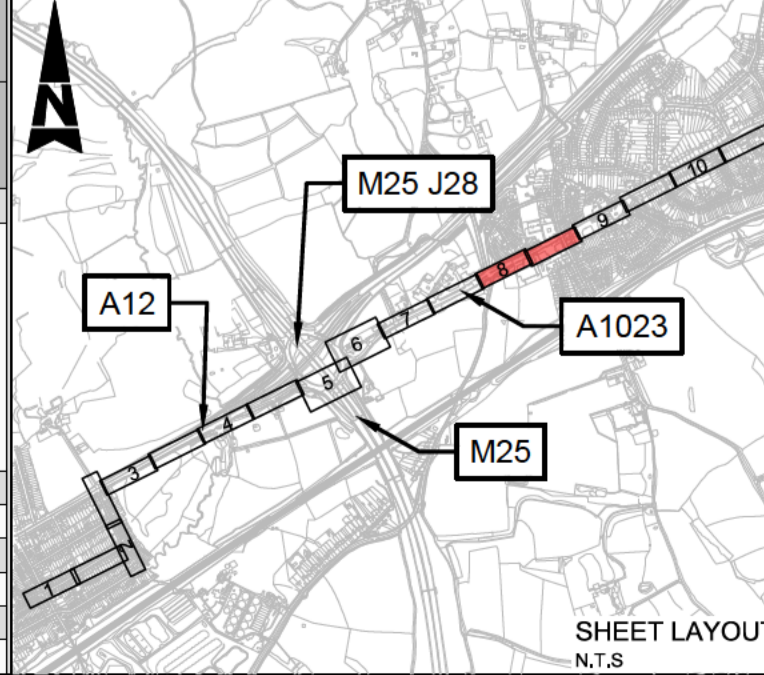
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).

Construction
 STATS01 - Working close to UK Power networks (UKPN).
 STATS04 - Working close to Thames Water_Water (TW).
 STATS05 - Working close to W.
 STATS06 - Working close to Virgin Media (V-M).
 STATS07 - Working close to GL.
 STATS10 - Working close to BTO.

Working adjacent to live traffic
 Working with hot materials

Maintenance / Cleaning
 NONE IDENTIFIED AT THIS STAGE

Use
 Dust And Noise Pollution
 Decommissioning / Demolition
 NONE IDENTIFIED AT THIS STAGE



Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
FOR INFORMATION	S3	P01	SS	PDM	GB	---	11/05/20
FIRST ISSUE	S3	C01	SS	PDM	GB	KP	13/05/20
FOR CONSTRUCTION APPROVAL	S3	P03	SC	PDM	GB	---	23/06/20
FOR CONSTRUCTION APPROVAL	S3	C02	SC	PDM	SC	KP	26/05/20

Drawing Suitability: S3

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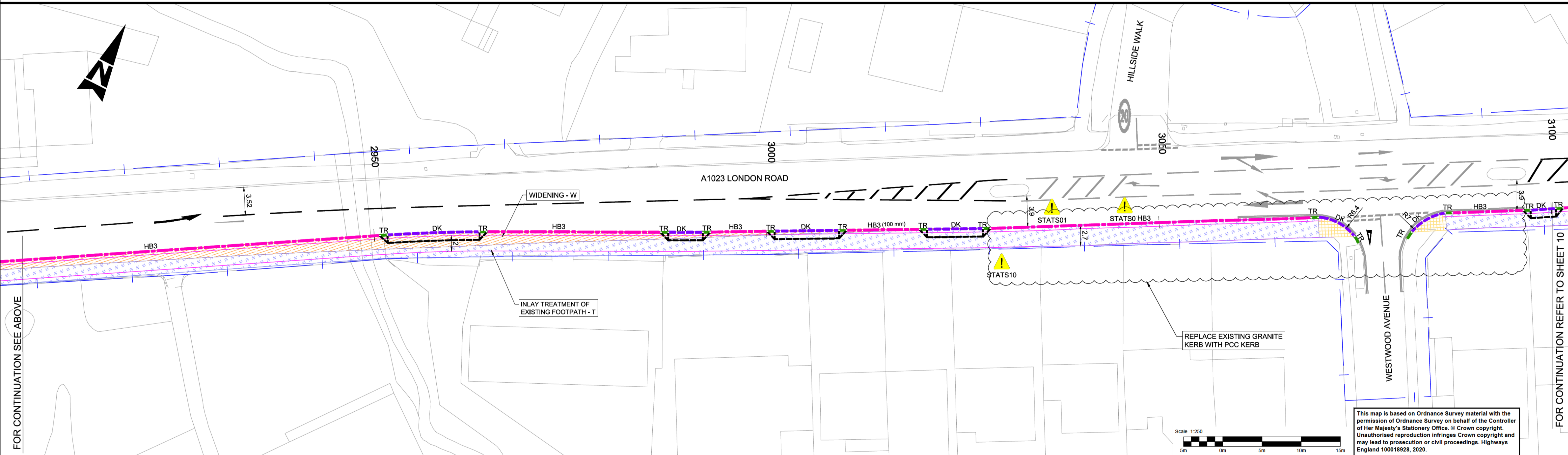
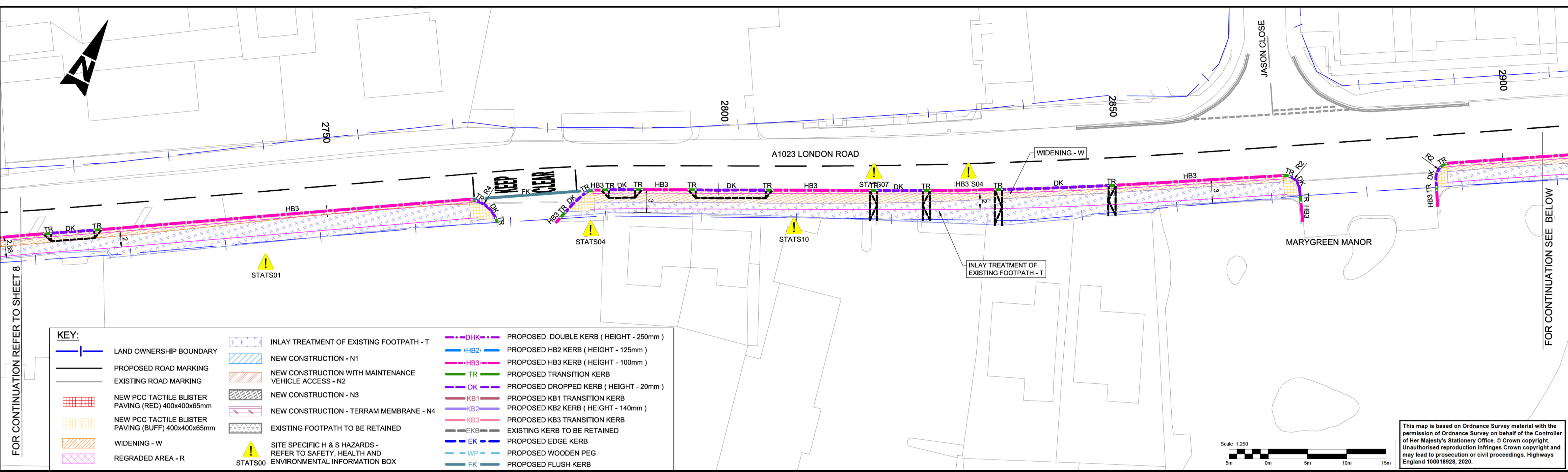
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Client: Working on behalf of **highways england**

Project Title	M25 J28 Designated Funds Detailed Design
Drawing Title	M25 J28 SHARED PATH KERBS & PAVEMENT LAYOUT
Drawing Number	HE601750 - ATK - HKF - XX_ML - DR - CH - 001108
Location	
Original Size	A1
Scale	1:250
Project Ref. No.	5158157
Sheet	8 of 10
Rev	C02

DO NOT SCALE

Millimetres
0 10 100



NOTES:

- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
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- STATS06 - Working close to Virgin Media (V-M).
- STATS07 - Working close to GL.
- STATS10 - Working close to BTO

Working adjacent to live traffic
Working with hot materials

Maintenance / Cleaning

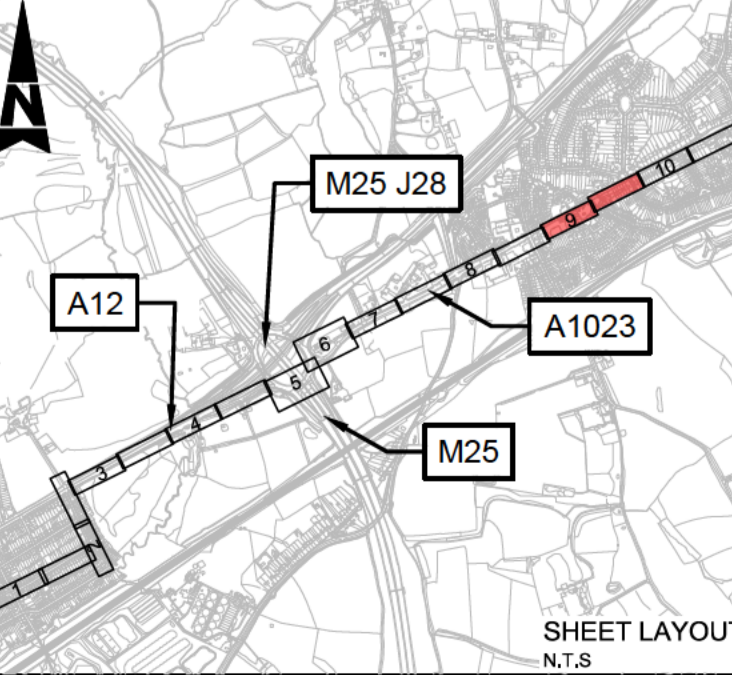
NONE IDENTIFIED AT THIS STAGE

Use

Dust And Noise Pollution

Decommissioning / Demolition

NONE IDENTIFIED AT THIS STAGE



Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description	S3		CO1	SS	PDM	GB	13/05/20

Drawing Suitability: S3

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Working on behalf of
highways england

Project Title: M25 J28 Designated Funds Detailed Design

Drawing Title: M25 J28 SHARED PATH KERBS & PAVEMENT LAYOUT

Drawing Number: HE601750 - ATK - HKF - XX_ML - DR - CH - 001109

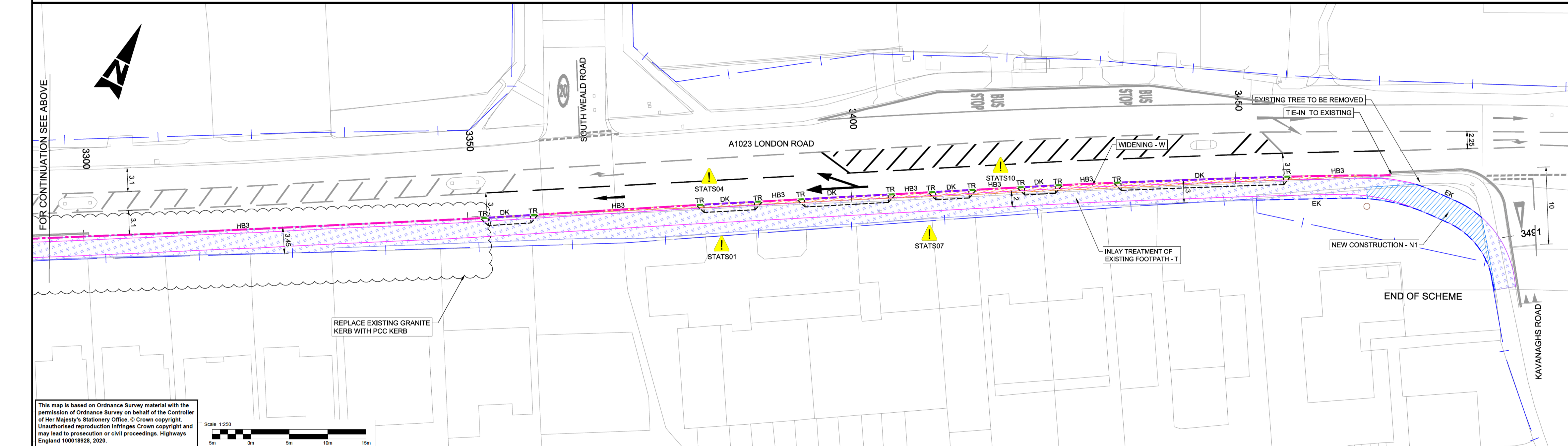
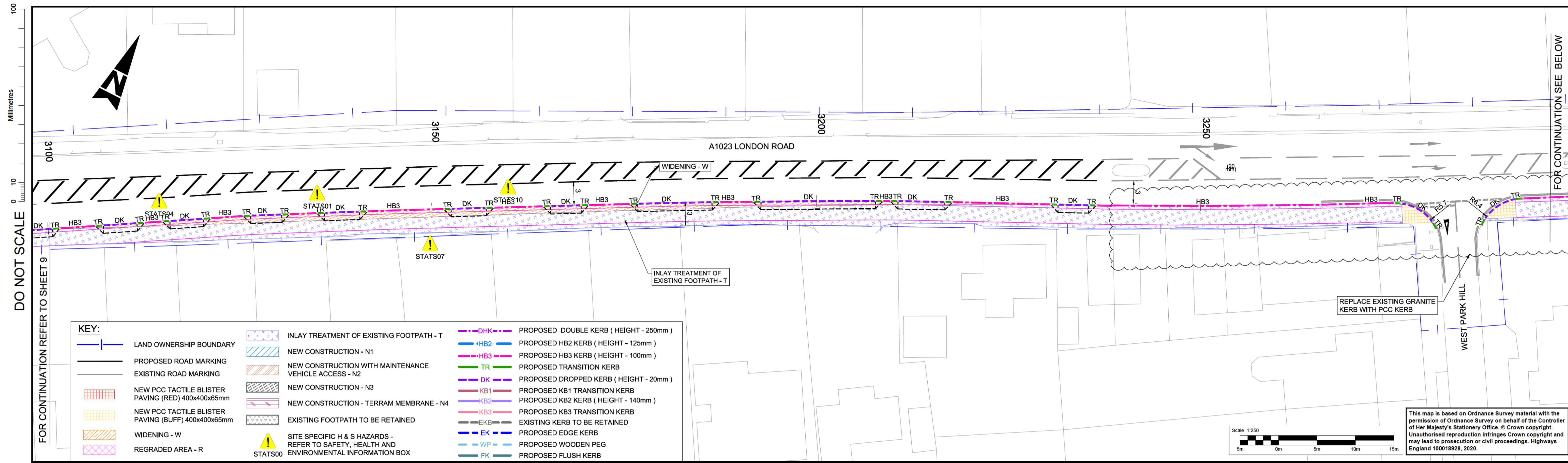
Project Ref. No: 5158157

Sheet: 9 of 10

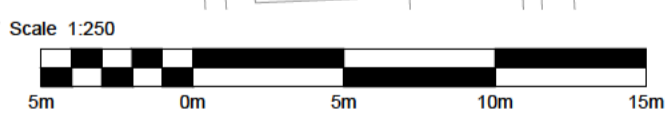
Rev: C01

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NOTES:

- ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
- FOR GENERAL ARRANGEMENT DETAILS REFER TO HE601750-ATK-HGN-XX_ML-DR-CH-000101 TO 000110.
- FOR STANDARD DETAILS REFER DRAWING HE601750-ATK-HGN-XX_ML-DE-CH-000001 & 000002.
- FOR PAVEMENT CONSTRUCTION DETAILS REFER TO TYPICAL CROSS SECTION DRAWINGS HE601750-ATK-HGN-XX_ML-DR-CH-000001 TO 000003.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made to the design hazard log).

Construction

- STATS01 - Working close to UK Power networks (UKPN).
- STATS04 - Working close to Thames Water_Water (TW).
- STATS05 - Working close to W.
- STATS06 - Working close to Virgin Media (V-M).
- STATS07 - Working close to GL.
- STATS10 - Working close to BTO

Working adjacent to live traffic
Working with hot materials

Maintenance / Cleaning

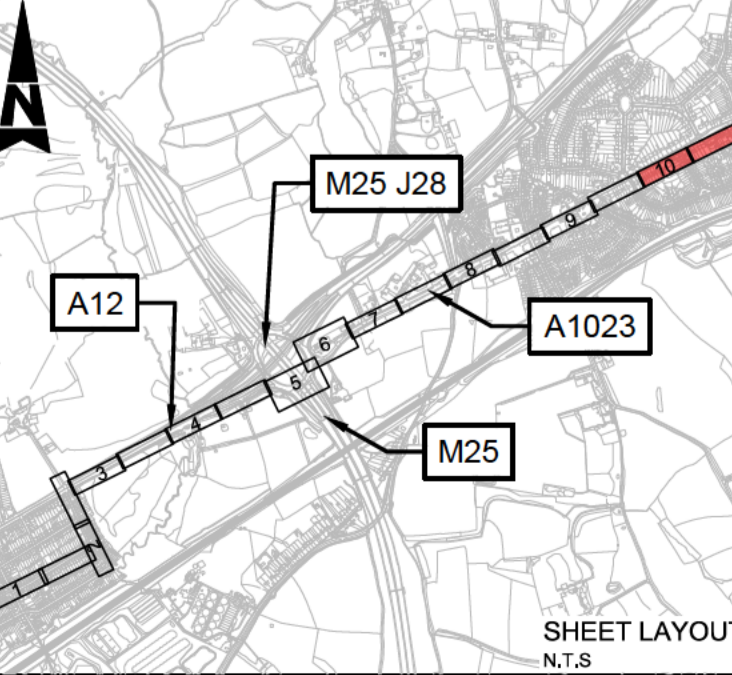
NONE IDENTIFIED AT THIS STAGE

Use

Dust And Noise Pollution

Decommissioning / Demolition

NONE IDENTIFIED AT THIS STAGE



Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Description	S3		CO1	SS	PDM	GB	13/05/20

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Drawing Suitability	Status	Project Title
	S3	M25 J28 Designated Funds Detailed Design
Drawing Title		
M25 J28 SHARED PATH KERBS & PAVEMENT LAYOUT		
Drawing Number		
HE601750 - ATK - HKF -		
Project		
XX_ML - DR - CH - 001110		
Location		
Original Size: A1 Scale: 1:250 Project ref. No: 5158157 Sheet: 10 of 10 Rev: C01		