
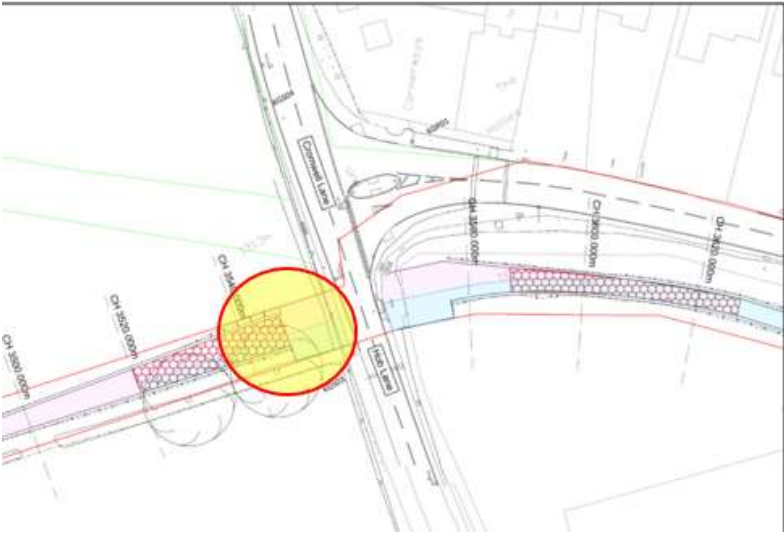


## High speed rail ( london – west midlands ) ACT 2017

***The contractor acting on behalf of, and as agent for, the nominated undertaker [High Speed Two (HS2) Limited] makes the following application under the High Speed Rail (London – West Midlands) Act 2017 (the 'Act').***

Unique reference ID	TWH.AN.SMBC.LMJV.0236		
Provision in the Act	Schedule 4 Part 1 paragraphs 1(7) and 1(10)		
Description	Consent for / approval of new accesses not shown on the deposited plans (location / plans and specifications)		
Nature of works <i>(tick one)</i>	Temporary	<input checked="" type="checkbox"/>	Permanent
Response period <i>(after which the location is to be treated as consented to / the plans and specifications are to be treated as approved if the highway authority fails to notify the nominated undertaker of its decisions)</i>	28 days from the date of submission		
Reference(s) of related application(s) <i>(if any)</i>	TBC		

*Note – A temporary interference submission under Schedule 4 Part 2 paragraph 6 of the Act may accompany this form, or be submitted separately.*

Highway authority	Solihull Metropolitan Borough Council
Road number (where applicable)	USRN: 35006267
Road name(s)	Hob Lane
Location of access	 <p>NMU and equestrian access point and highway crossing at Hob Lane / Red Lane junction. Approximate location shown by arrows.</p> 

Description of access	<p>Existing hedge boundaries to fields affected to create safe access and egress for construction vehicles. Site access for the construction of Hob Lane Non-Motorised Users crossing point at the given location, as part of the diverted Kenilworth Greenway scheme.</p> <p>Vehicle to access site limited to an excavator.</p> <p>Location: Easting 426810 Northing 275652</p>
-----------------------	---

Submission checklist <i>[tick as appropriate]</i> (give details in Annex A)					
Plans and specifications <i>(for approval)</i>	Location plan and general arrangement	✓	Supporting documents <i>(for information)</i>		
	Standard details	✓		Road Safety Audit report(s) – stages 1 / 2	✓
	Site clearance	✓		Road Safety Audit Response report(s)	✓
	Fencing <i>(motorway boundary and within highway boundary only)</i>	✓		Road Safety Audit Exception report(s)	
	Road restraint systems			AiPs for highway structures	
	Drainage and service ducts	✓		Departures	
	Earthworks <i>(within highway boundary only)</i>			Public utilities information	
	Pavements <i>(including level information)</i>	✓		Environmental information	
	Kerbs, footways and paved areas	✓		Third party information	
	Traffic signs and road markings	✓		Health and safety / CDM information	✓
	Landscape <i>(within highway boundary only)</i>			Quality assurance information (e.g. BBA certificates)	
	Street furniture			DMRB design / check certificates	
	Other (please specify)			Other (please specify)	

Details of pre-application discussions	

**Additional comments**

The Contractor, having been duly authorised to do so following review and acceptance of the associated documentation by HS2 Ltd, submits this application on behalf of, and as agent for, the nominated undertaker.

**Contractor's confirmation of compliance with the Act and Contract requirements**

Signature:  Date: 7.6.19

Name of Contractor's authorised representative: Mark Roberts

Name of Contractor: LM-JV

**Date of submission** 18.6.19

*[Date transmitted if sent electronically, next working day if posted first class]*

**Decisions on the application by the highway authority**

**Location – consented to / consent withheld** *[delete as appropriate]*

If consent withheld, state ground(s):  
\_\_\_\_\_

**Plans and specifications – approved / approval withheld** *[delete as appropriate]*

If approval withheld, state ground(s):  
\_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Name of highway authority's authorised representative:  
\_\_\_\_\_

**Issued by the Contractor on behalf of the nominated undertaker to**

<b>Highway authority</b>	Warwickshire County Council
<b>HS2 Ltd</b>	Sharon Price HS2
<b>Other (please specify)</b>	
<i>[name of organisation]</i>	<i>[name of addressee]</i>

# Annex A – Schedule of submitted plans, specifications and supporting documentation

Title	eB reference	Version
<i>Plans (for approval)</i>		
Site Access Egress – General Arrangement Hob Lane	1EW04-LMJ_DJV-HW-DGA-NS01_NL03-004152	C01
Site Access Egress – Site Clearance Hob Lane	1EW04-LMJ_DJV-HW-DGA-NS01_NL03-004252	C01
Site Access Egress – Visibility Splay Hob Lane	1EW04-LMJ_DJV-HW-DPL-NS01_NL03-004352	C01
Site Access Egress – Vehicle Tracking Analysis Hob Lane	1EW04-LMJ_DJV-HW-DPL-NS01_NL03-004552	C01
Standard Detail – Overhead Protection	1EW04-LMJ-DJV-HW-DDE-N001-004500	C01
Standard Detail - Utility Protection	1EW04-LMJ-DJV-HW-DDE-N001-004501	C01
Standard Detail - Access Route Construction	1EW04-LMJ-DJV-HW-DDE-N001-004503	C01
Pavement Standard Detail	1EW04-LMJ-HW-DPL-N001-051019	C01
<i>Specifications (for approval)</i>		
<i>Supporting documentation (for information)</i>		
Access / Egress CDM Register	1EW04-LMJ-HW-REG-NS01_NL03-004003	C01
Design and Assumptions Log	1EW04-LMJ-HW-REP-NS01_NL03-004023	C01



Hob Lane Site Access / Egress Location Plan



View along Hob Lane to Cromwell Lane

**HEALTH AND SAFETY SYMBOLS LEGEND**

- Indicates a residual risk requiring a compulsory action
- Conveys information about a residual risk
- Indicates a residual risk requiring a specific action to be avoided
- Warns of a residual risk or information that is unusual and cannot be designed out
- Indicates an environmental hazard

**Site Related & Construction Risks**

- A1 & A3 - Trial hole and underground service scans to be undertaken in accordance with HSG47 to identify location of services.
- A5 - Contractor to implement a safe system of working with close proximity of existing overhead lines to access route.
- A8 - Trial holes and scans to be undertaken to determine location.

**Operational & Maintenance Risks**

- C1 - Ensure area is kept clear of vegetation within visibility splays.

**Demolition & Environmental Risks**

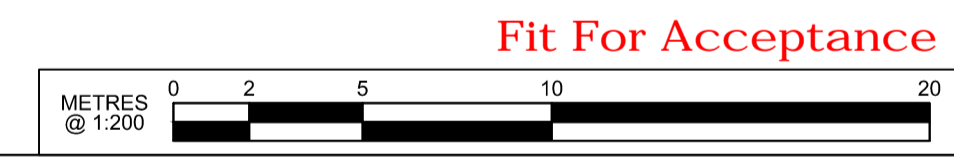
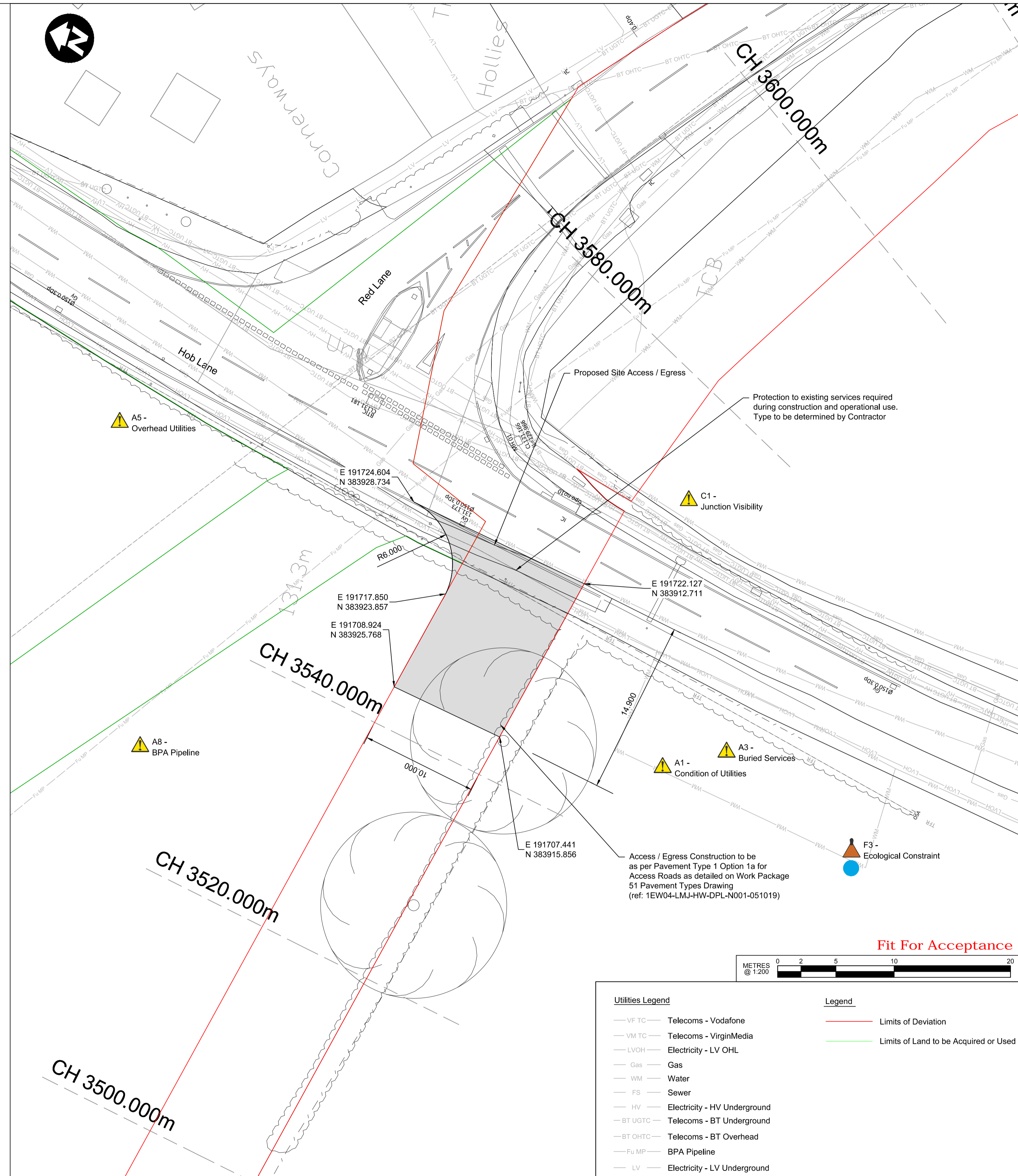
- F3 - Further Survey Required.

The table above is provided to assist the Principal Contractor to fulfill their obligations under the Construction Design & Management Regulations, 2015. It does not include residual risks that a competent Contractor will be aware of nor does it absolve the Principal Contractor of his legal responsibilities. For further hazard and risk information, refer to Designer's Risk Assessment 1EW04-LMJ-HW-REG-NS01-NL04-004002

**SAFETY HEALTH AND ENVIRONMENTAL INFORMATION BOX**

OS Location as per Schedule 4 Part 1 Application (ref. 1EW04-LMJ-DJV-HW-SCH-NS01\_NL04-004002)

EASTING	NORTHING
426810	275652



Utilities Legend		Legend	
— VF TC —	Telecoms - Vodafone	—	Limits of Deviation
— VM TC —	Telecoms - VirginMedia	—	Limits of Land to be Acquired or Used
— LVOH —	Electricity - LV OHL		
— Gas —	Gas		
— WM —	Water		
— FS —	Sewer		
— HV —	Electricity - HV Underground		
— BT UGTC —	Telecoms - BT Underground		
— BT OHTC —	Telecoms - BT Overhead		
— Fu MP —	BPA Pipeline		
— LV —	Electricity - LV Underground		

Rev	Description	Drawn	Checked	Approved	LM App	HS2 Acc
C01	Fit For Acceptance	JE	DP	RB	---	---
P01	Fit For Information	JE	DP	JBG	---	---

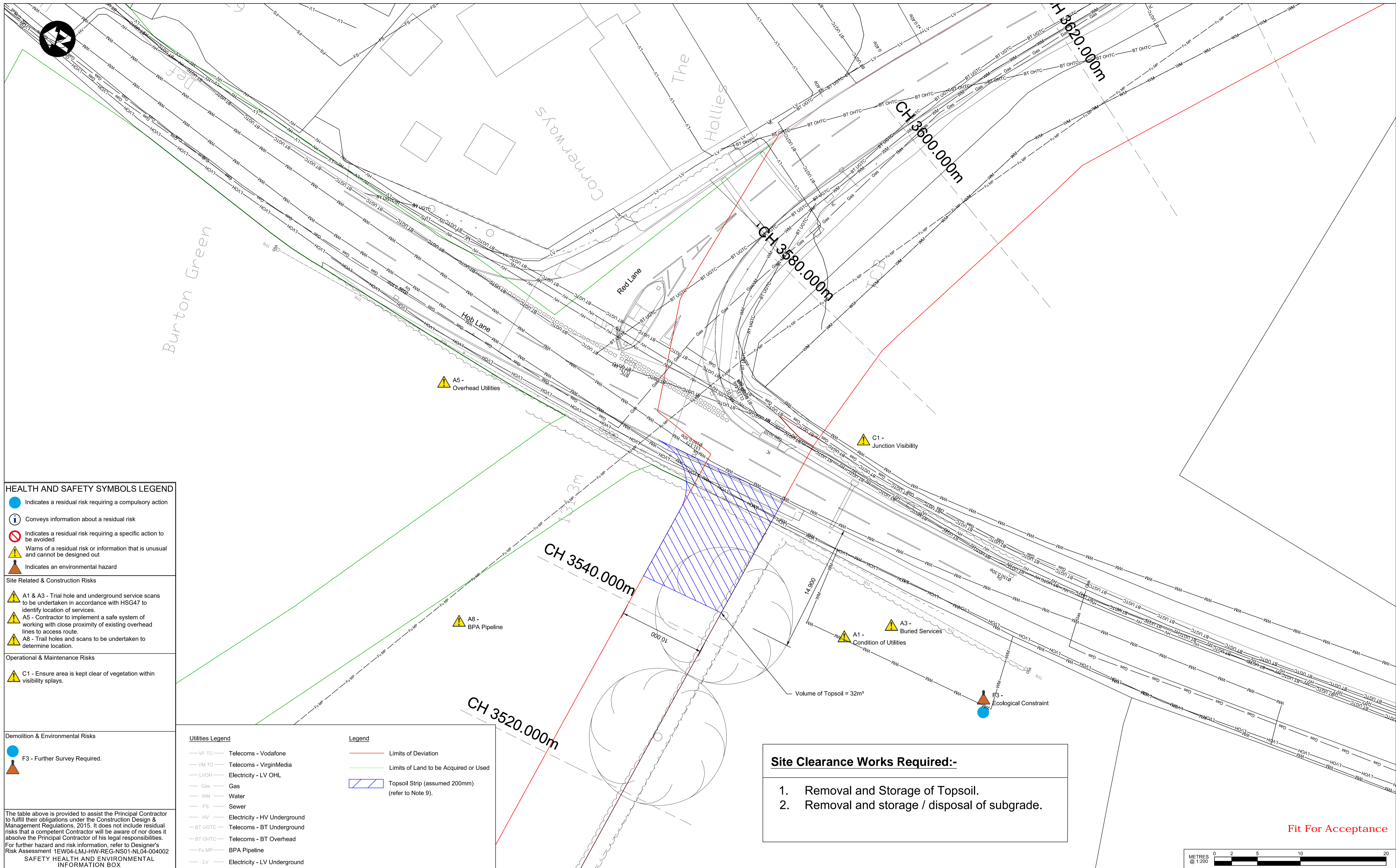
**Legends/Notes:**

- All dimensions in metres unless stated otherwise and must be checked on site and not scaled from this drawing.
- Peg out the required area and check for utilities before commencement of work.
- Contractor to remain within the LOD at all times when accessing and undertaking the works.
- All construction works to be undertaken under the guidance of suitably qualified and experienced contractor.
- Risk Assessment and Construction Method to be provided and approved by LMJV prior to work commencing.
- All levels to be confirmed prior to construction.
- Drawings have been developed in Snakegrid based on Topographical Survey Data received from City Surveys on 16/05/2018 and supplemented with LIDAR where gaps have been identified. Drawing reference 1EW04-LMS-DMA-NL03-051003\_Ver2.
- Drawing to be read in conjunction with Work Package 51 deliverables:-  
 General Arrangement (ref: 1EW04-LMJ-HW-DPL-NS01\_NL03-051054 to 051062 and 051064 to 051066).  
 Fencing (ref: 1EW04-LMJ-HW-DPL-NS01\_NL03-051128 to 051136).  
 Site Clearance (ref: 1EW04-LMJ-HW-DPL-NS01\_NL03-051115 to 051123).  
 Drainage (ref: 1EW04-LMJ-HW-DPL-NS01\_NL03-051069 to 051077).
- Traffic Management is the responsibility of the Contractor and is to comply with Chapter 8.
- CAT Survey Data does not match Trial Hole information for the BPA Gas pipeline, Gas pipe location amended as per Trial Hole Information.

Registered in England  
 Registration No. 06791686  
 Registered office:  
 2 Snow Hill, Queensway,  
 Birmingham, B4 6GA

Creator/Oriinator  
**LM JV**

Suitability Code/Description <b>S6 - Issued for HS2 Acceptance</b>	Project/Contract <b>Enabling Works North - EWP-2104</b>		
Design Stage <b>5 - Detailed Design</b>	Discipline/Function <b>Highways</b>		
Drawing Title <b>WP004b</b>	Drawn <b>DP</b>	Checked <b>JE</b>	Approved <b>RB</b>
<b>Kenilworth Greenway - Site Access / Egress</b>	Date <b>22.05.2019</b>	Scale <b>1:200</b>	Size <b>A1</b>
<b>General Arrangement Hob Lane</b>	Drawing No. <b>1EW04-LMJ_DJV-HW-DGA-NS01_NL03-004152</b>	Rev. <b>C01</b>	



**HEALTH AND SAFETY SYMBOLS LEGEND**

- Indicates a residual risk requiring a compulsory action
- i Conveys information about a residual risk
- ⊘ Indicates a residual risk requiring a specific action to be avoided
- ⚠ Warns of a residual risk or information that is unusual and cannot be designed out
- ⚠ Indicates an environmental hazard

**Site Related & Construction Risks**

- ⚠ A1 & A3 - Trial hole and underground service scans to be undertaken in accordance with HSG47 to identify location of services.
- ⚠ A5 - Contractor to implement a safe system of working with close proximity of existing overhead lines to access route.
- ⚠ A8 - Trail holes and scans to be undertaken to determine location.

**Operational & Maintenance Risks**

- ⚠ C1 - Ensure area is kept clear of vegetation within visibility splays.

**Demolition & Environmental Risks**

- F3 - Further Survey Required.

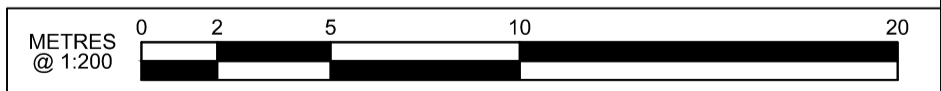
The table above is provided to assist the Principal Contractor to fulfill their obligations under the Construction Design & Management Regulations, 2015. It does not include residual risks that a competent Contractor will be aware of nor does it absolve the Principal Contractor of his legal responsibilities. For further hazard and risk information, refer to Designer's Risk Assessment 1EW04-LMJ-HW-REG-NS01-NL04-004002

Utilities Legend		Legend	
— VF TC —	Telecoms - Vodafone	— — —	Limits of Deviation
— VM TC —	Telecoms - VirginMedia	— — —	Limits of Land to be Acquired or Used
— LV OH —	Electricity - LV OHL	▨ ▨ ▨	Topsoil Strip (assumed 200mm) (refer to Note 9).
— Gas —	Gas		
— WM —	Water		
— FS —	Sewer		
— HV —	Electricity - HV Underground		
— BT UGTC —	Telecoms - BT Underground		
— BT OHTC —	Telecoms - BT Overhead		
— Fu MP —	BPA Pipeline		
— LV —	Electricity - LV Underground		

**Site Clearance Works Required:-**

1. Removal and Storage of Topsoil.
2. Removal and storage / disposal of subgrade.

**Fit For Acceptance**



Rev	Description	Drawn	Checked	Approved	LM App	HS2 Acc
C01	Fit For Acceptance	MW	DP	RB	—	—
P01	Fit For Information	MW	DP	JBG	—	—

HS2 accepts no responsibility for any circumstances which arise from the reproduction of this document after alteration, amendment or abbreviation or if it is issued in part or issued incompletely in any way.

© Crown Copyright and database right 2017. All rights reserved. Ordnance Survey Licence number 100049190

© Crown Copyright material is reproduced with the permission of Land Registry under delegated authority from the Controller of HMSO.

This material was last updated on 2017 and may not be copied, distributed, sold or published without the formal permission of Land Registry. Only an official copy of a title plan or register obtained from the Land Registry may be used for legal or other official purposes.

Scale with caution as distortion can occur.

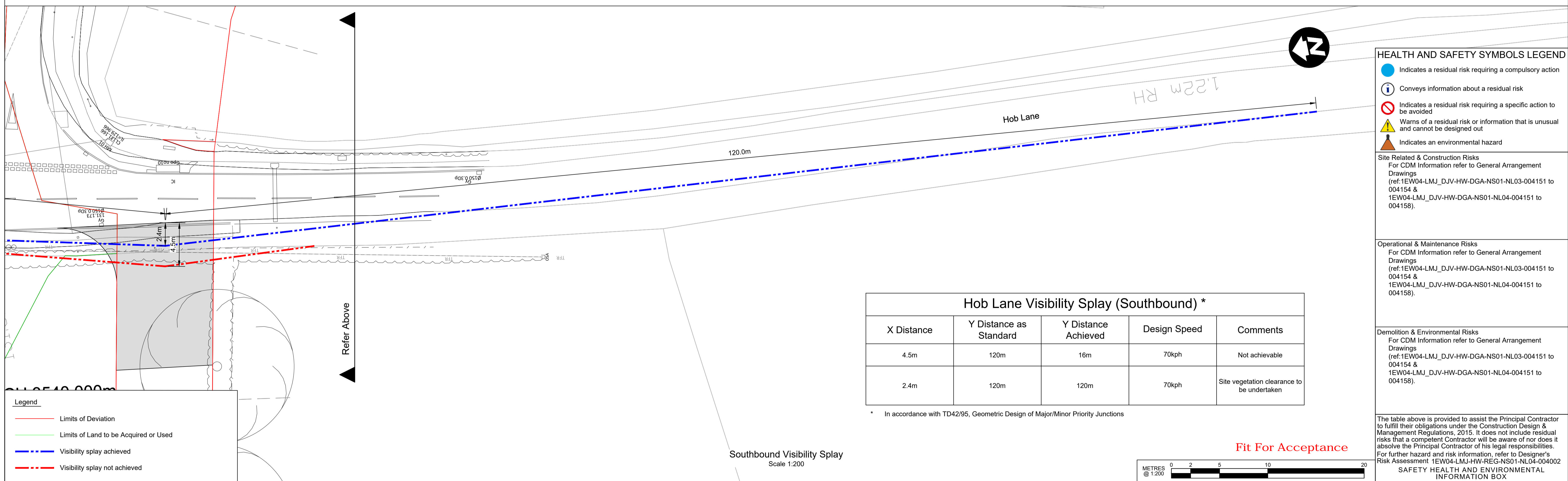
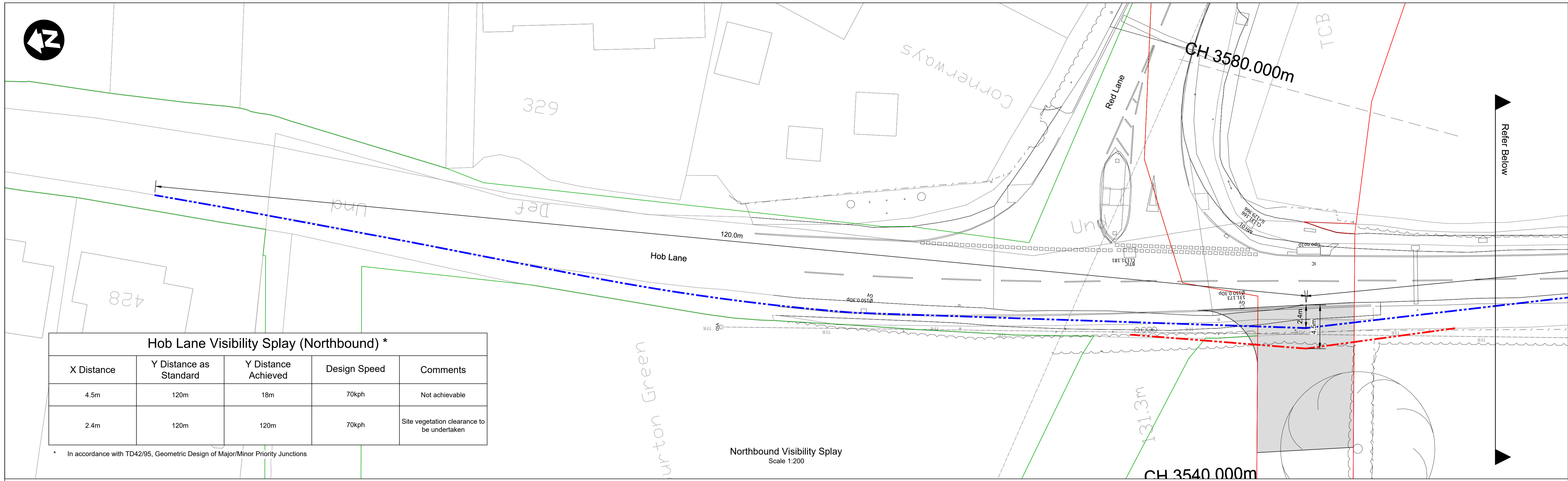
- Legends/Notes:**
1. All dimensions in metres unless stated otherwise and must be checked on site and not scaled from this drawing.
  2. Peg out the required area and check for utilities before commencement of work.
  3. Contractor to remain within the LOD at all times when accessing and undertaking the works.
  4. All construction works to be undertaken under the guidance of suitably qualified and experienced contractor.
  5. Risk Assessment and Construction Method to be provided and approved by LMJV prior to work commencing.
  6. Existing vegetation to be retained except where indicated.
  7. All levels to be confirmed prior to construction.
  8. Drawings have been developed in Snakegrid based on Topographical Survey Data received from City Surveys on 16/05/2018 and supplemented with LIDAR where gaps have been identified. Drawing reference 1EW04-LMS-DMA-NL03-051003\_Ver2.
  9. Topsoil Strip to be in accordance with HS2 Technical Standard - Soil Handling for Land Restoration (ref: HS2-HS2-EV-STD-000-000008).
  10. Maintenance of existing road and footway routes during construction is the responsibility of the Contractor.
  11. Drawing to be read in conjunction with Work Package 51 Site Clearance Drawings (ref: 1EW04-LMJ-HW-DPL-NS01\_NL03-05115 to 051123).

**HS2**

Registered in England  
 Registration No. 06791686  
 Registered office:  
 2 Snow Hill, Queensway,  
 Birmingham, B4 6GA

Creator/Oriinator  
**LM JV**

Suitability Code/Description		Project/Contract	
S6 - Issued for HS2 Acceptance		Enabling Works North - EWP-2104	
Design Stage		Discipline/Function	
5 - Detailed Design		Highways	
Drawing Title		Drawn	Checked
WP004b		MW	DP
Kenilworth Greenway - Site Access / Egress		Date	Scale
Site Clearance Hob Lane		22.05.2019	1:200
Drawing No.		Approved	Size
1EW04-LMJ_DJV-HW-DGA-NS01_NL03-004252		JBG	A1
Rev.			Rev.
C01			C01



Rev	Description	Drawn	Checked	Approved	LM App	HS2 Acc	Scale with caution as distortion can occur.
C01	Fit For Acceptance	JE	DP	RB	--	--	HS2 accepts no responsibility for any circumstances which arise from the reproduction of this document after alteration, amendment or abbreviation or if it is issued in part or issued incompletely in any way.
P01	Fit For Information	JE	DP	JBG	--	--	© Crown Copyright and database right 2017. All rights reserved. Ordnance Survey Licence number 100049190
							© Crown Copyright material is reproduced with the permission of Land Registry under delegated authority from the Controller of HMSO. This material was last updated on 2017 and may not be copied, distributed, sold or published without the formal permission of Land Registry. Only an official copy of a title plan or register obtained from the Land Registry may be used for legal or other official purposes.

- Legends/Notes:**
- All dimensions in metres unless stated otherwise and must be checked on site and not scaled from this drawing.
  - Contractor to remain within the Act Boundary at all times when accessing and undertaking the works.
  - All construction works to be undertaken under the guidance of suitably qualified and experienced contractor.
  - Risk Assessment and Construction Method to be provided and approved by LMJV prior to work commencing.
  - Existing vegetation to be retained except where indicated.
  - All levels to be confirmed prior to construction.
  - Drawings have been developed in Snakegrid based on Topographical Survey Data received from City Surveys on 16/05/2018 and supplemented with LIDAR where gaps have been identified. Drawing reference 1EW04-LMS-DMA-NL03-051003\_Ver2.

**HS2**

Registered in England  
Registration No. 06791686  
Registered office:  
2 Snow Hill, Queensway,  
Birmingham, B4 6GA

Creator/Originator  
LM JV

**Fit For Acceptance**

METRES @ 1:200

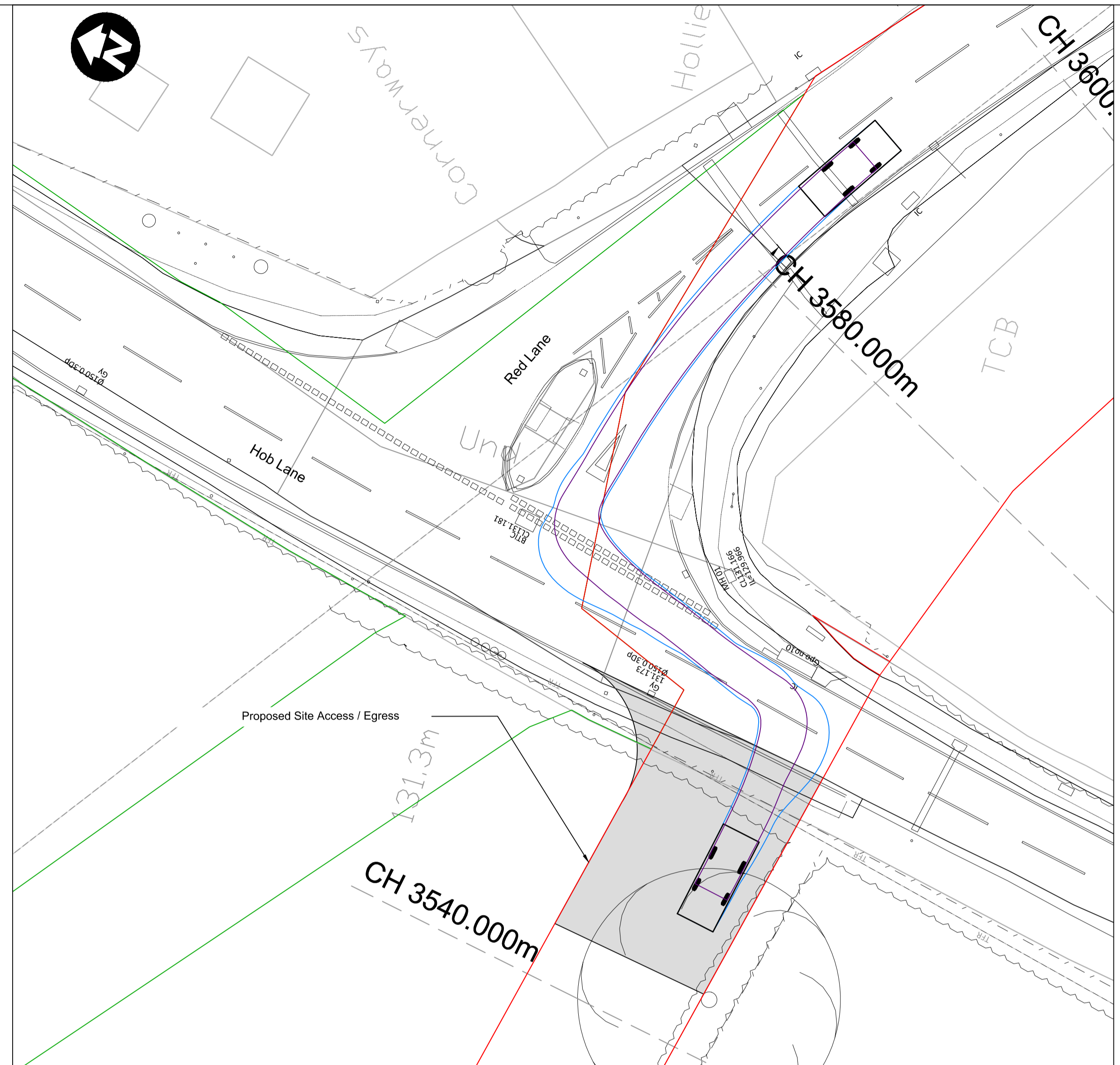
Suitability Code/Description	S6 - Issued for HS2 Acceptance
Design Stage	5 - Detailed Design
Drawing Title	WP004b Kenilworth Greenway - Site Access / Egress Visibility Splay - Hob Lane

Project/Contract  
Enabling Works North - EWP-2104

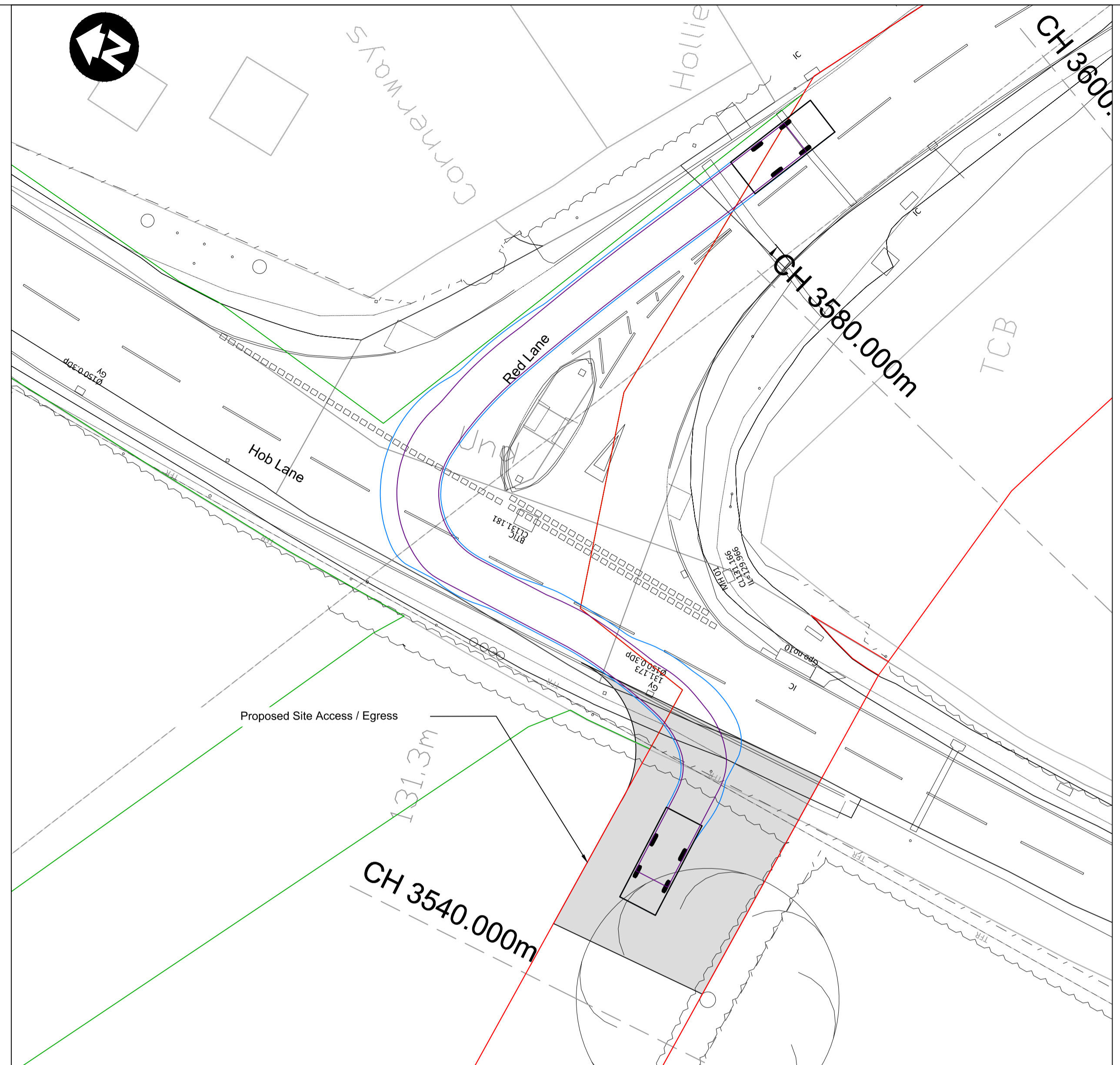
Discipline/Function  
Highways

Drawn	Checked	Approved
JE	DP	RB
Date	Scale	Size
22.05.2019	1:200	A1
Drawing No.	Rev.	
1EW04-LMJ_DJV-HW-DPL-NS01_NL03-004352	C01	





Waste Lane - East to West Vehicle Tracking Analysis



Waste Lane - West to East Vehicle Tracking Analysis

**HEALTH AND SAFETY SYMBOLS LEGEND**

- Indicates a residual risk requiring a compulsory action
- Conveys information about a residual risk
- Indicates a residual risk requiring a specific action to be avoided
- Warns of a residual risk or information that is unusual and cannot be designed out
- Indicates an environmental hazard

**Site Related & Construction Risks**  
 For CDM Information refer to General Arrangement Drawings (ref:1EW04-LMJ\_DJV-HW-DGA-NS01\_NL03-004151 to 004154 & 1EW04-LMJ\_DJV-HW-DGA-NS01\_NL04-004151 to 004158).

**Operational & Maintenance Risks**  
 For CDM Information refer to General Arrangement Drawings (ref:1EW04-LMJ\_DJV-HW-DGA-NS01\_NL03-004151 to 004154 & 1EW04-LMJ\_DJV-HW-DGA-NS01\_NL04-004151 to 004158).

**Demolition & Environmental Risks**  
 For CDM Information refer to General Arrangement Drawings (ref:1EW04-LMJ\_DJV-HW-DGA-NS01\_NL03-004151 to 004154 & 1EW04-LMJ\_DJV-HW-DGA-NS01\_NL04-004151 to 004158).

The table above is provided to assist the Principal Contractor to fulfill their obligations under the Construction Design & Management Regulations, 2015. It does not include residual risks that a competent Contractor will be aware of nor does it absolve the Principal Contractor of his legal responsibilities. For further hazard and risk information, refer to Designer's Risk Assessment 1EW04-LMJ-HW-REG-NS01-NL04-004002.

**Legend**

- Limits of Deviation
- Limits of Land to be Acquired or Used
- Vehicle Overhang
- Wheel Track



Hob Lane Site Access / Egress Location Plan

Excavator	6.140m
Overall Length	2.440m
Overall Width	3.889m
Min Body Ground Clearance	0.322m
Track Width	2.200m
Lock to lock time	4.00s
Kerb to Kerb Turning Radius	4.225m

Vehicle used for Tracking Analysis

Fit For Acceptance

C01	Fit For Acceptance	JE	DP	RB	--	HS2 accepts no responsibility for any circumstances which arise from the reproduction of this document after alteration, amendment or abbreviation or if it is issued in part or issued incompletely in any way.
P01	Fit For Information	JE	DP	JBG	--	© Crown Copyright and database right 2017. All rights reserved. Ordnance Survey Licence number 100049190
						© Crown Copyright material is reproduced with the permission of Land Registry under delegated authority from the Controller of HMSO. This material was last updated on 2017 and may not be copied, distributed, sold or published without the formal permission of Land Registry. Only an official copy of a title plan or register obtained from the Land Registry may be used for legal or other official purposes.
Rev	Description	Drawn	Checked	Approved	LM App	HS2 Acc

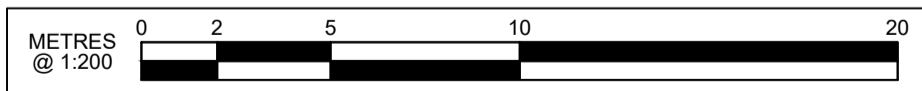
- Legends/Notes:**
- All dimensions in metres unless stated otherwise and must be checked on site and not scaled from this drawing.
  - Peg out the required area and check for utilities before commencement of work.
  - Contractor to remain within the Act Boundary at all times when accessing and undertaking the works.
  - All construction works to be undertaken under the guidance of suitably qualified and experienced contractor.
  - Risk Assessment and Construction Method to be provided and approved by LMJV prior to work commencing.
  - Existing vegetation to be retained except where indicated.
  - All levels to be confirmed prior to construction.
  - Drawings have been developed in Snakegrid based on Topographical Survey Data received from City Surveys on 16/05/2018 and supplemented with LIDAR where gaps have been identified. Drawing reference 1EW04-LMS-DMA-NL03-051003\_Ver2.
  - Drawings to be read in conjunction with all other relevant drawings.

**HS2**

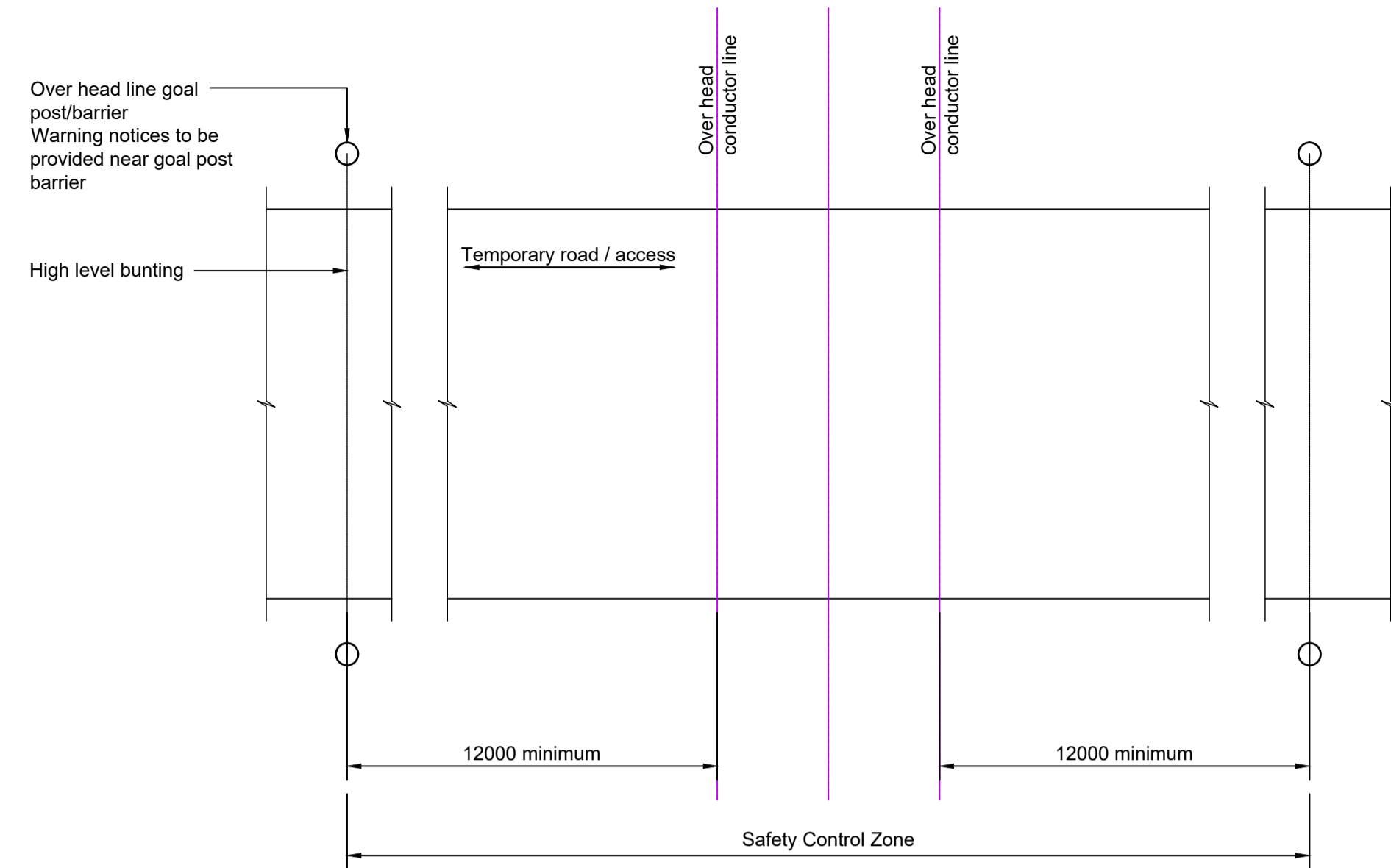
Registered in England  
 Registration No. 06791686  
 Registered office:  
 2 Snow Hill, Queensway,  
 Birmingham, B4 6GA

Creator/Organizer  
 LM JV

Suitability Code/Description S6 - Issued for HS2 Acceptance	Project/Contract Enabling Works North - EWP-2104		
Design Stage 5 - Detailed Design	Discipline/Function Highways		
Drawing Title WP004b	Drawn JE	Checked DP	Approved RB
Kenilworth Greenway - Site Access / Egress	Date 22.05.2019	Scale 1:200	Size A1
Vehicle Tracking Analysis Hob Lane	Drawing No. 1EW04-LMJ_DJV-HW-DPL-NS01_NL03-004552	Rev. C01	

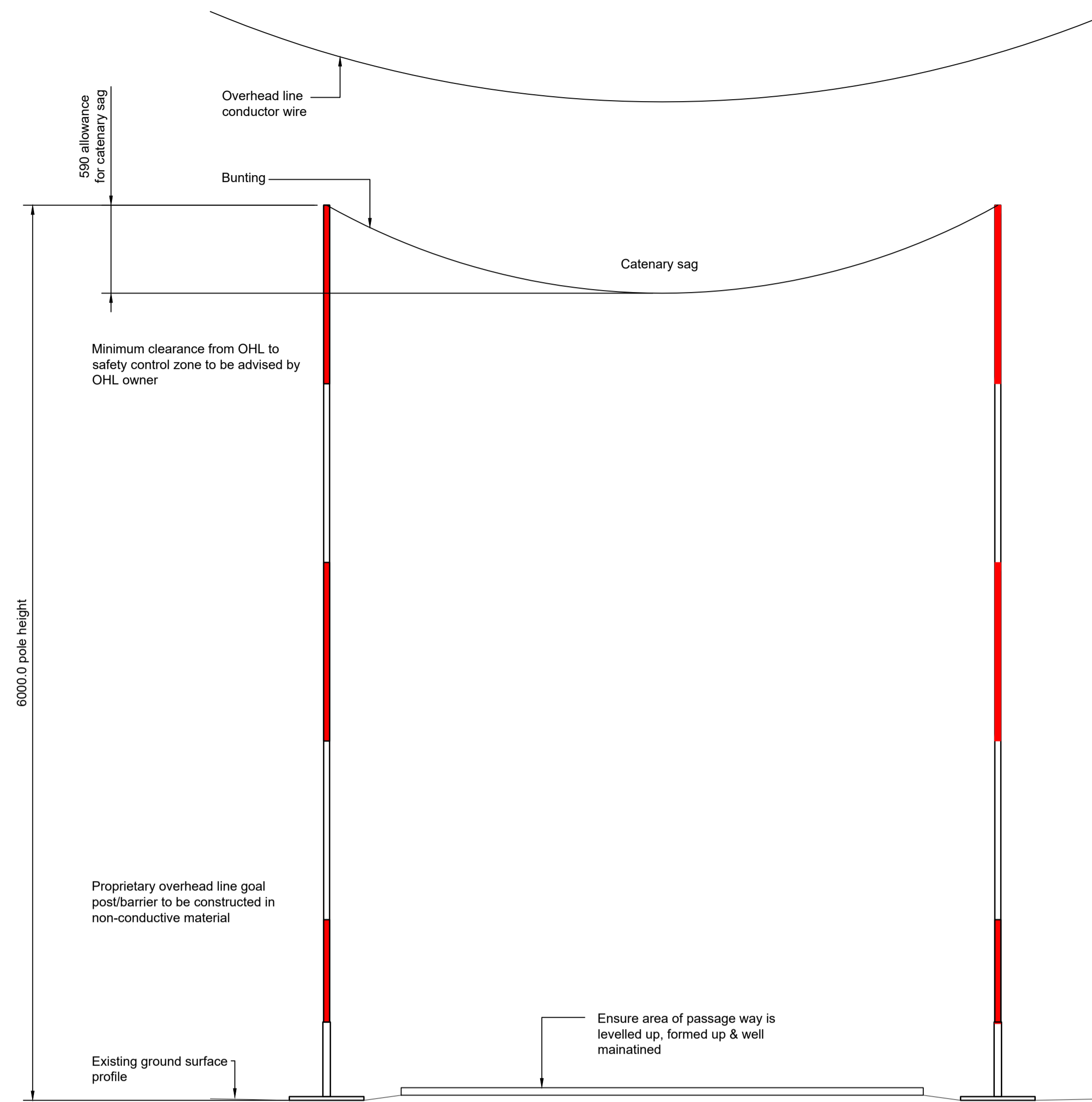






Note:  
Horizontal distance to be confirmed by OHL owner

**PLAN ON OHL CROSSING**  
(SCALE 1:50)



**OVERHEAD LINE (OHL) GOALPOST/BARRIER**  
(SCALE 1:25)

Fit For Acceptance

C01	Fit For Acceptance	JE	DP	RB	--		HS2 accepts no responsibility for any circumstances which arise from the reproduction of this document after alteration, amendment or abbreviation or if it is issued in part or issued incompletely in any way.
		22.05.2019	22.05.2019	22.05.2019	--		
P01	Fit For Information	JE	DP	JBG	--		© Crown Copyright and database right 2017. All rights reserved. Ordnance Survey Licence number 100049190
		22.02.2019	22.02.2019	22.02.2019	--		
							© Crown Copyright material is reproduced with the permission of Land Registry under delegated authority from the Controller of HMSO.
							This material was last updated on 2017 and may not be copied, distributed, sold or published without the formal permission of Land Registry. Only an official copy of a title plan or register obtained from the Land Registry may be used for legal or other official purposes.
Rev	Description	Drawn	Checked	Approved	LM App	HS2 Acc	Scale with caution as distortion can occur.

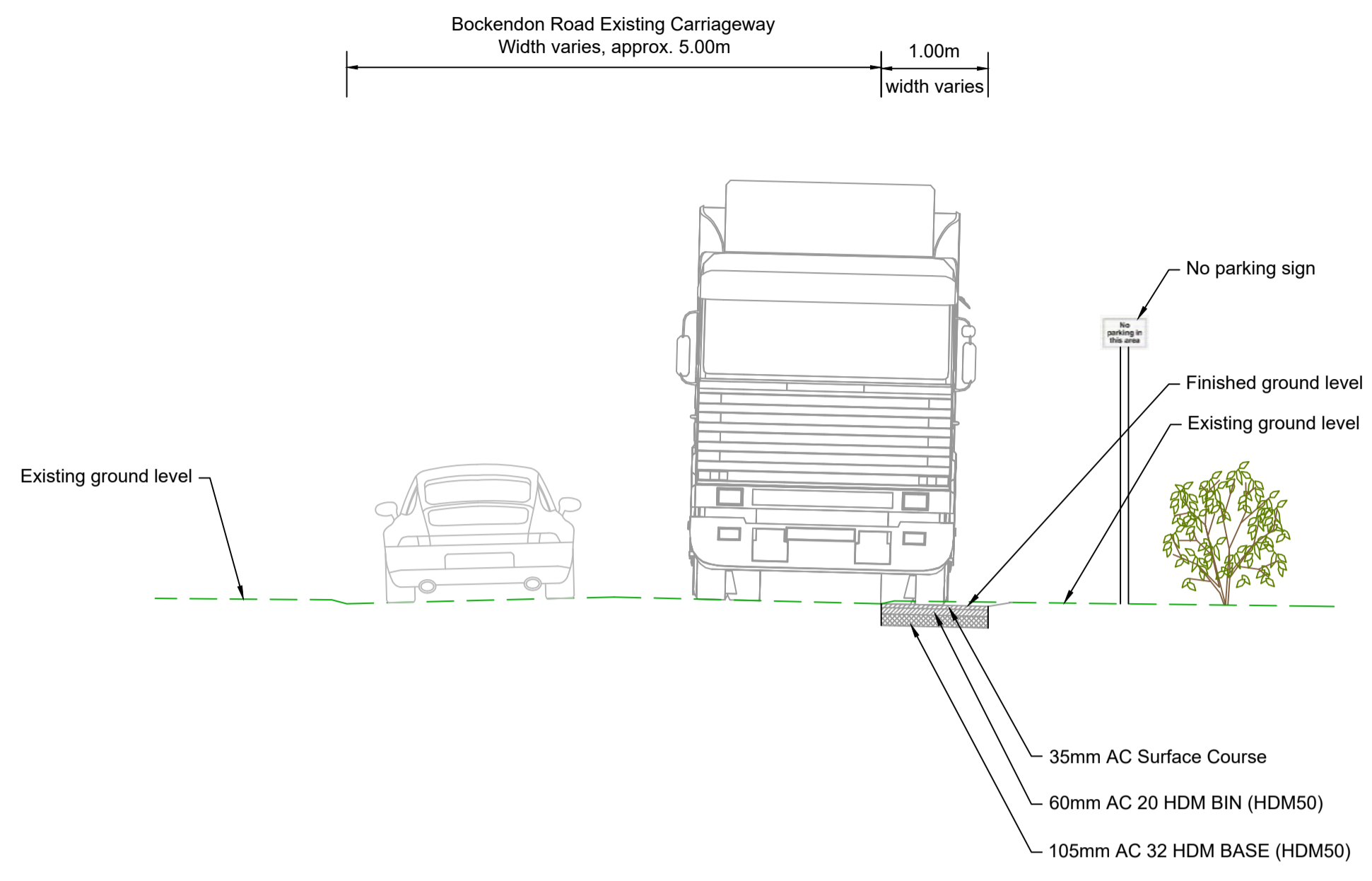
**Legends/Notes:**

- All dimensions are in millimeters unless stated otherwise and must be checked on site and not scaled from this drawing.
- OHL protection goal post/barriers & signage to be in accordance with HSE Guidance Note 6 & OHL owner requirements.
- This drawing is to be read in conjunction with WP4b General Arrangement Drawings (ref: 1EW04-LMJ\_DJV-HW-DGA-NS01-NL03-004151 to 004154 & 1EW04-LMJ\_DJV-HW-DGA-NS01-NL04-004151 to 004158).

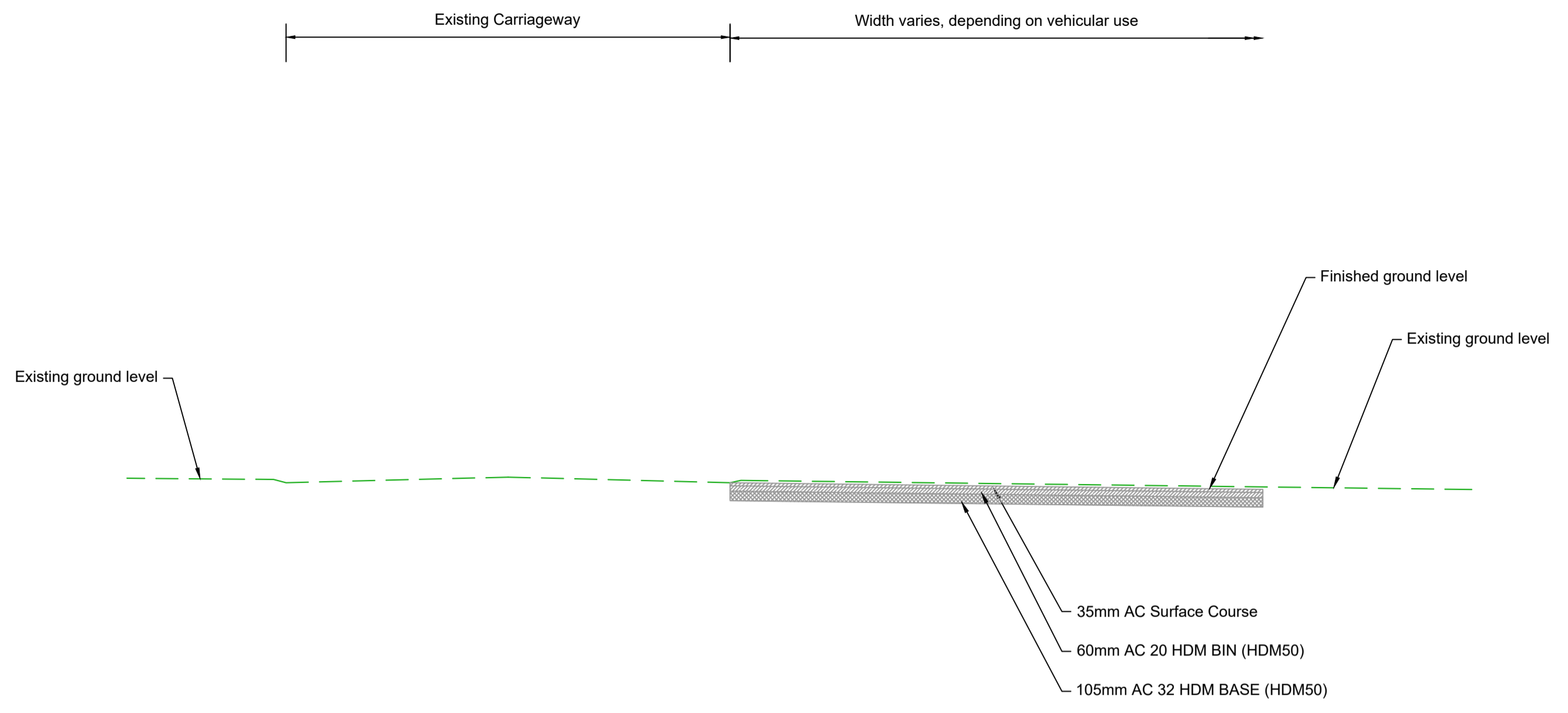
Registered in England  
Registration No. 06791686  
Registered office:  
2 Snow Hill, Queensway,  
Birmingham, B4 6GA

Creator/Originator  
LM JV

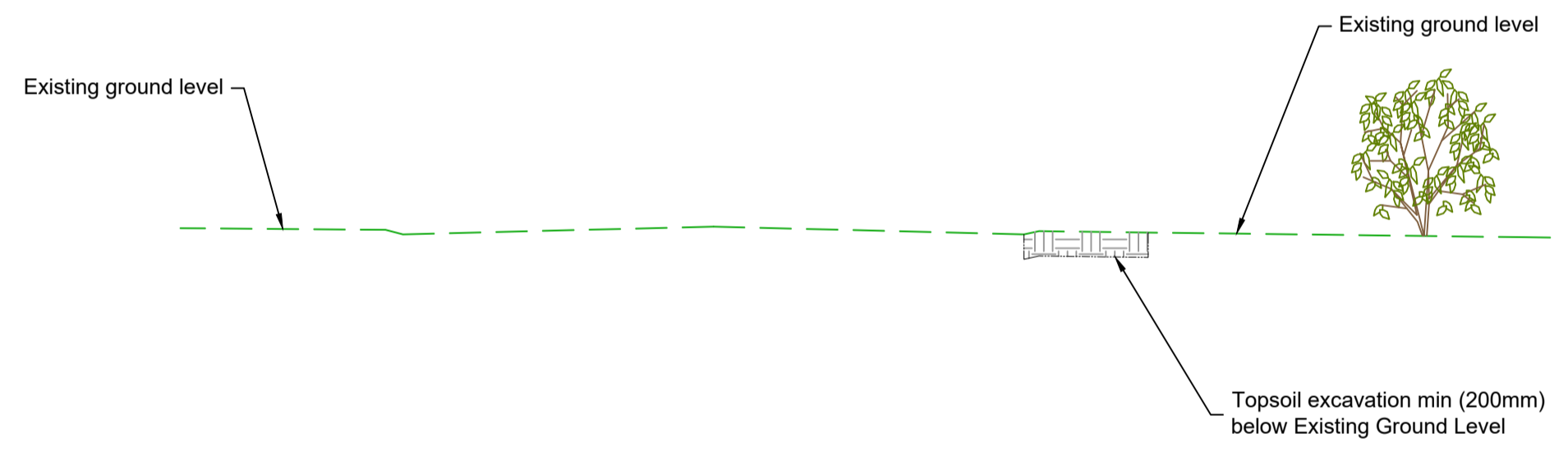
Suitability Code/Description S6 - Issued for HS2 Acceptance		Project/Contract Enabling Works North - EWP-2104	
Design Stage 5 - Detailed Design		Discipline/Function Highways	
Drawing Title WP004b Standard Detail Overhead Protection	Drawn JE	Checked DP	Approved RB
Date 22.05.2019	Scale As shown	Size A1	
Drawing No. 1EW04-LMJ_DJV-HW-DDE-N001-004500			Rev. C01



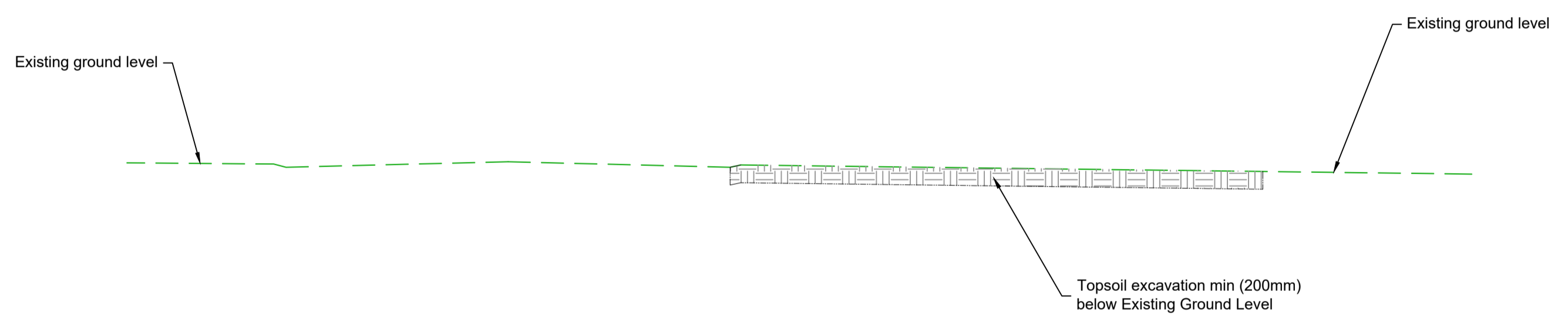
**Bockendon Road Passing Bay**  
**Typical Cross Section - Pavement Type 1 (Option 1a)**  
 Refer WP51 drg. 1EW04-LMJ-HW-DPL-N001-051019



**Site Access/Egress**  
**Typical Cross Section - Pavement Type 1 (Option 1a)**  
 Refer WP51 drg. 1EW04-LMJ-HW-DPL-N001-051019



**Bockendon Road Passing Bay**  
**Typical Cross Section - Pavement Type 1 (Option 1a)**  
**Earthworks Excavation Detail**



**Site Access/Egress**  
**Typical Cross Section - Pavement Type 1 (Option 1a)**  
**Earthworks Excavation Detail**

Fit For Acceptance



C01	Fit For Acceptance	JE	DP	RB	--	HS2 accepts no responsibility for any circumstances which arise from the reproduction of this document after alteration, amendment or abbreviation or if it is issued in part or issued incompletely in any way.
		22.05.2019	22.05.2019	22.05.2019	--	
P01	Fit For Information	JE	DP	JBG	--	© Crown Copyright and database right 2017. All rights reserved. Ordnance Survey Licence number 100049190
		22.02.2019	22.02.2019	22.02.2019	--	
						© Crown Copyright material is reproduced with the permission of Land Registry under delegated authority from the Controller of HMSO.
						This material was last updated on 2017 and may not be copied, distributed, sold or published without the formal permission of Land Registry. Only an official copy of a title plan or register obtained from the Land Registry may be used for legal or other official purposes.
Rev	Description	Drawn	Checked	Approved	LM App	HS2 Acc
						Scale with caution as distortion can occur.

Legends/Notes:	
<p><b>HS2</b></p> <p>Registered in England          Registration No. 06791686          Registered office:          2 Snow Hill, Queensway,          Birmingham, B4 6GA</p> <p>Creator/Originator  <b>LM JV</b></p>	

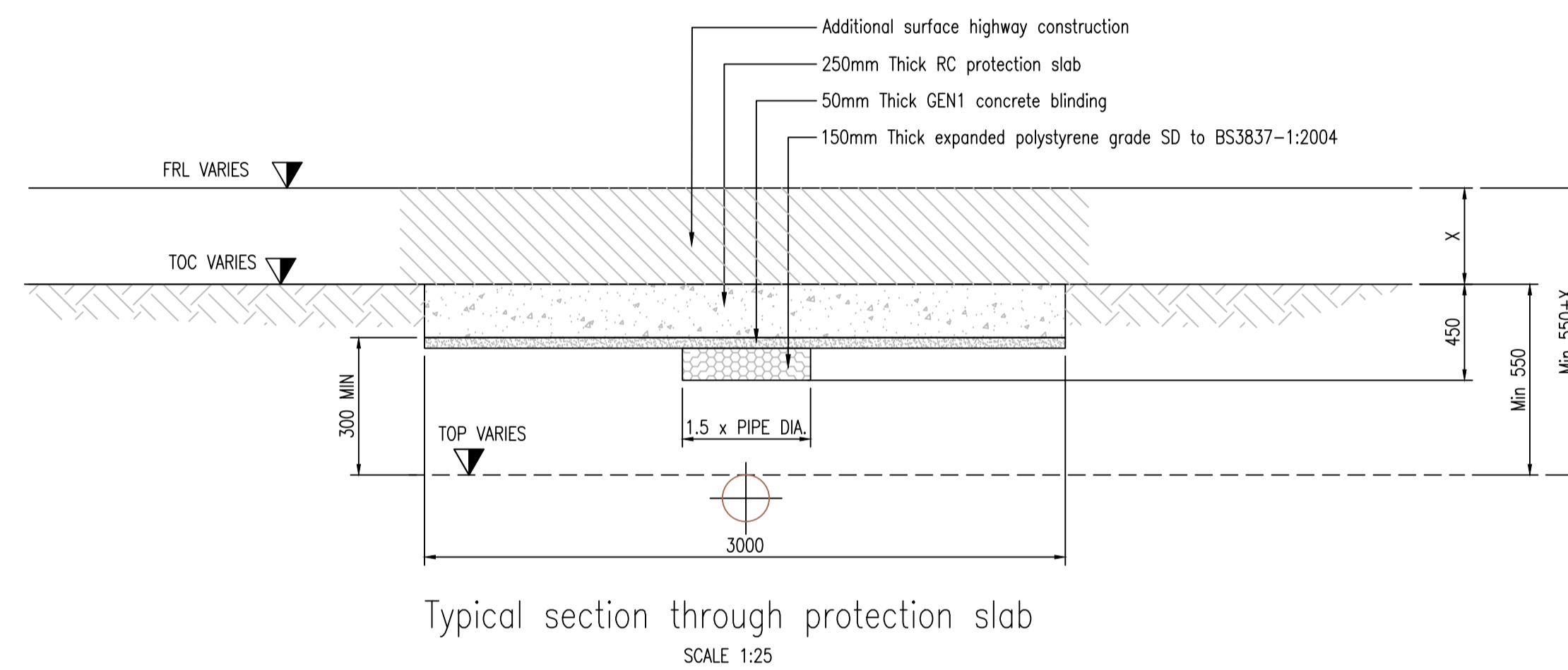
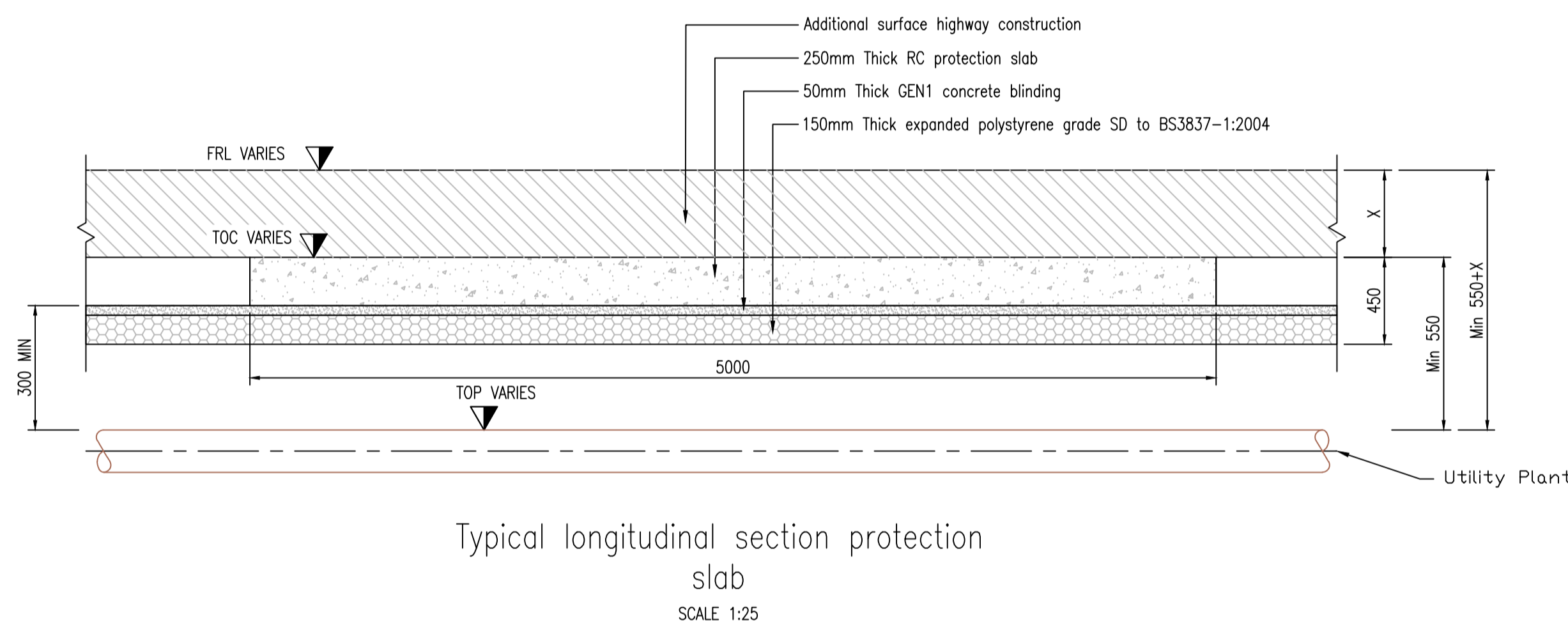
Sutability Code/Description <b>S6 - Issued for HS2 Acceptance</b>		Project/Contract <b>Enabling Works North - EWP-2104</b>	
Design Stage <b>5 - Detailed Design</b>		Discipline/Function <b>Highways</b>	
Drawing Title <b>WP004b</b> <b>Standard Detail</b> <b>Access Route Construction</b>		Drawn <b>JE</b>	Checked <b>DP</b>
		Approved <b>RB</b>	
		Date <b>22.05.2019</b>	Scale <b>1:50</b>
		Size <b>A1</b>	
		Drawing No. <b>1EW04-LMJ_DJV-HW-DDE-N001-004503</b>	Rev. <b>C01</b>

**Notes:**

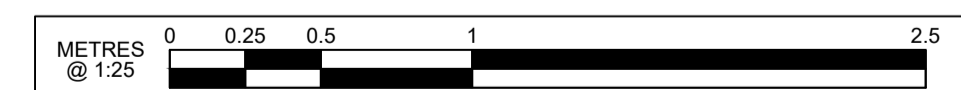
- All dimensions are in millimeters unless stated otherwise and must be checked on site and not scaled from this drawing.
- Currently there is no information available from trial excavations detailing the precise line and depth of the existing utilities that may be affected by the construction of the access route.
- In the absence of trial excavation results this indicative design drawing gives an overview of the probable requirements for the protection of utility.
- Where affected (confirmed by trial excavation) Major Utility Assets (MUA), including BPA Fuel Pipelines, High Pressure Gas Pipelines and Water Trunk mains **will** require protection by the installation of a plant protection slab as indicated herewith. This indicative design is detailed in section 6.8 of Cadent Specification T/SP/CE/12: Design, Construction and Testing of Civil and Structural Works Part Twelve; Protection works over steel pipelines. Additionally in order to comply with British Pipeline Agency (BPA) requirements the slab will be a minimum 250mm thick.
- The protection slab in detailed in T/SP/CE/12 reflects the design for a concrete protection slab for a shallow pipeline detailed in Section A.16 of the British Standard BS9295: Guide to the structural design of buried pipelines.
- Protection slabs hinder the access to utility plant in an emergency and may not be suitable for long term installation. The utility owner should approve all protection measures proposed.
- The minimum depth of cover requirement for most utilities, not considered to be MUA, in a roadway is 750mm cover from proposed finished level. (Telecoms 450mm min).
- No detailed design for protective measures for utility plant can be completed without the results from trial excavations being available detailing line and depth of the affected plant.

**Application**

- Major Utility Assets (MUA), **will** require protection by the installation of a plant protection slab as indicated herewith.
- If 750mm cover is available for all other utility assets (i.e. not MUA) no additional protection measures will be required and the BGHR and KG can be constructed as proposed.
- An exception to the above are Cast Iron (CI) or Asbestos Cement (AC) gas and water mains that are particularly vulnerable to damage during construction. These will require replacing, with PE (or steel pipe) and lowering if required to minimum 750mm cover.
- All utility plant that will have a final depth of cover less than 550mm will require lowering.
- It is probable all telecoms plant will require lowering to accommodate the new road construction and/or the installation of a protection slab.
- If the ground cover over utilities is between 550mm and 750mm provision of a protection slab can be considered. 550mm cover is the minimum depth required for construction of a plant protection slab as indicated herewith and detailed in Cadent Specification T/SP/CE/12.
- The 550mm depth of cover dimension assumes the top of the concrete slab, following installation will be level with or higher than the existing ground level prior to commencement of construction. Any requirement for pavement or road construction (X) to be included above the concrete slab protection and up to the existing ground level will increase the minimum depth of cover requirement to 550mm plus Xmm.
- Dimension X shall not exceed 500mm.



Fit For Acceptance



C01	Fit For Acceptance	JE	DP	RB	--	HS2 accepts no responsibility for any circumstances which arise from the reproduction of this document after alteration, amendment or abbreviation or if it is issued in part or issued incompletely in any way.
		29.05.2019	29.05.2019	29.05.2019	--	
P01	Fit For Information	JE	DP	JBG	--	© Crown Copyright and database right 2017. All rights reserved. Ordnance Survey Licence number 100049190
		22.02.2019	22.02.2019	22.02.2019	--	
						© Crown Copyright material is reproduced with the permission of Land Registry under delegated authority from the Controller of HMSO.
						This material was last updated on 2017 and may not be copied, distributed, sold or published without the formal permission of Land Registry. Only an official copy of a title plan or register obtained from the Land Registry may be used for legal or other official purposes.
Rev	Description	Drawn	Checked	Approved	LM App	HS2 Acc
						Scale with caution as distortion can occur.

Legends/Notes:	
<ol style="list-style-type: none"> <li>All dimensions are in millimeters unless stated otherwise and must be checked on site and not scaled from this drawing.</li> <li>OHL protection goal post/barriers &amp; signage to be in accordance with HSE Guidance Note 6 &amp; OHL owner requirements.</li> <li>This drawing is to be reading in conjunction with WP4b General Arrangement Drawings (ref: 1EW04-LMJ_DJV-HW-DGA-NS01-NL03-004151 to 004154 &amp; 1EW04-LMJ_DJV-HW-DGA-NS01-NL04-004151 to 004158).</li> </ol>	

**HS2**

Registered in England  
 Registration No. 06791686  
 Registered office:  
 2 Snow Hill, Queensway,  
 Birmingham, B4 6GA

Creator/Originator  
**LM JV**

Suitability Code/Description	S6 - Issued for HS2 Acceptance			Project/Contract	Enabling Works North - EWP-2104		
Design Stage	5 - Detailed Design			Discipline/Function	Highways		
Drawing Title	WP004b Standard Detail Utility Protection			Drawn	Checked	Approved	
				JE	DP	RB	
				Date	Scale	Size	
				29.05.2019	1:25	A1	
				Drawing No.	Rev.		
				1EW04-LMJ_DJV-HW-DDE-N001-004501	C01		

# WP004b - Sector N1 - Enabling Works North Contract

## Kenilworth Greenway - Hob Lane Access / Egress CDM Register

Document no.: 1EW04-LMJ-HW-REG-NS01\_NL03-004003

Revision	Date	Author	Approved by	Revision Details
C01	17/05/2019	Dennis Powell	Rahul Bagchi	For Acceptance
P01	10/04/2019	Dennis Powell	Chris Ayerst	For Information

**Rahul Bagchi**

Digitally signed by Rahul Bagchi  
 DN: cn=Rahul Bagchi, c=GB,  
 o=Ramboll UK Ltd, ou=Central  
 Highways,  
 email=rahul.bagchi@ramboll.co.uk  
 Date: 2019.05.17 09:40:44 +01'00'







**Designer's Risk Assessment**

**General**

Design health and safety risk management should be an integral part of the overall design development. It is important that H&S considerations are recorded during the design for two reasons. Firstly, it provides an understanding of the designer's thought process for eliminating hazards and reducing risks. This is helpful to other designers who will be developing the design to avoid changes that potentially reintroduce a hazard or increase the level of risk. Secondly, it should highlight any significant residual risks at the end of the design process that others will need to manage. One of HS2's strategic H&S principles is that health hazards should receive the same attention as safety hazards.

**Categorisation of Risk Considerations**

Hazards/risks should be reviewed in a logical sequence against the following categories as the considerations will be slightly different for each category:

- Site related hazards (eg client existing operations, nearby site uses/activities, etc). Note that these may impact on any of the other categories in this list
- Hazards during the works (eg construction, installation, etc)
- Operational hazards, both for normal operation and foreseeable abnormal/emergency situations
- Maintenance hazards, including routine cleaning, routine and emergency maintenance, replacement of major plant/equipment and other components which are likely to require replacement during the overall design life of the facility
- Future alteration/decommissioning, dismantling and demolition hazards

**Potential SHE Hazards**

HEALTH HAZARDS	SAFETY HAZARDS	ENVIRONMENTAL HAZARDS
Asbestos	Falls from height	Invasive species
Manual handling	Falling objects	Hazardous materials
Dust	Moving vehicles	Nesting birds
Noise	Driving and fatigue	Waste material
Vibration	Electric shock	Pollution of water courses/aquifers
Contaminated Land	Hostile landowners	
Bird guano	Collapse of excavation	
Leptospirosis	Drowning	
Discarded syringes	Lone working	
Lyme disease	Slips and trips	

The following CIRIA guidance documents provide a useful checklist and detailed guidance on the identification of risks to be considered during design and how those risks might be addressed:

- C755 - CDM2015 - Construction work sector guidance for designers
  - C756 - CDM2015 - Workplace 'in-use' guidance for designers
  - C686 - Safe access for maintenance and repair. Guidance for designers
  - C607 - Design for deconstruction to facilitate reuse and recycling
- There are other more specific CIRIA publications which may also be of assistance to designers in relation to risk management

**Hazard Elimination and Risk Reduction**

The acronym ERIC provides a simple reminder of the basic risk management considerations as follows:

- **E**liminate reasonably foreseeable hazards so far as is reasonably practicable\*
  - **R**educe the risks, so far as is reasonably practicable\*, from any reasonably foreseeable hazards that cannot reasonably be eliminated. To do this designers are required to apply the principles of prevention which is a hierarchy of control, ie combat the risks at source, use latest technology, replace the given by the non-dangerous or the less dangerous and give collective protective measures priority over individual protective measures
  - **I**nform others about any significant residual risks - see below for definition of what should be considered as significant in this context
  - The 'c' is for the control of all residual risks by contractors or operators and is not applicable to designers
- (\* Proportionate action only taking into account other design considerations)

Permanent works designers must consider the temporary works implications of their designs and draw to the attention of relevant parties any special requirements/arrangements that may be necessary. They should also provide sufficient information about the permanent design criteria which will be necessary to enable the temporary works designer to assess all relevant factors

Designers should also identify specific erection/installation sequences required to ensure stability, safe installation, etc. Refer to the DJV CDM RAG Lists for guidance on what to eliminate/avoid and what to encourage.

**Identification of Significant Residual Risks**

Significant residual risks in the context of this schedule does not mean those that involve the greatest risks but means those, including health risks, which are:

- unusual in the context of this project/facility; or
  - not likely to be obvious to competent contractors, operators or other designers; or
  - particularly difficult to manage effectively; or
  - critical design assumptions apply in respect of erection/installation or demolition/dismantling sequences or the temporary works requirements
- Significant residual risks are usually communicated using a Safety, Health and Environment (SHE) box and hazard symbols on drawings. They can also be communicated on specific drawings such as hazard maps and construction sequence drawings and via written briefing notes and presentations to site operatives.




The right hand half of the Designer's Risk Assessment template should be used to identify what specific notes and hazard symbols should appear on particular drawings.

The symbols in the table below should be used to identify the type of hazard:

Symbol	When to use symbol	Further Guidance
	Warns of a residual risk or information that is unusual and cannot be designed out	<b>Significant hazards</b> that are unusual, difficult to manage and cannot be designed out, eg fragile roof lights, holes through floors, etc
	Indicates a residual risk requiring a compulsory action by the Contractor or Maintainer	<b>Compulsory actions</b> to encourage the contractor to carry out specific tasks in a particular way, eg structural erection or demolition sequences
	Indicates a residual risk requiring a specific action to be avoided	<b>Prohibited Actions</b> having identified significant existing hazards and risks the contractor may need to be informed of particular actions to be avoided, eg use of access roads prohibited at certain times on school sites
	Conveys information about a residual risk, or information that may affect the way a project is managed or undertaken	<b>Significant Information</b> to inform the contractor or user of issues that have been mitigated but of which they need to be aware, eg maintenance and inspection access to difficult parts of the building once scaffolding removed
	Warns of a residual environmental aspect (hazard) and impact (risk)	<b>Significant aspects and impacts</b> , eg special measures required to prevent pollution

Where the hazard creates a specific risk in a particular location, the hazard symbol should be shown on the drawing with the corresponding item No. from the Designer's Risk Assessment and a label alongside the hazard symbol describing the hazard. Further brief details of the risk and proposed control measures should be given in the SHE box. If no significant risks are present for the scope of work shown on the drawing, a SHE box is not required.

The standard DJV SHE box is shown below:

<b>Health and Safety Symbols Legend</b>		
	INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION	
	CONVEYS INFORMATION ABOUT A RESIDUAL RISK	
	INDICATES A RESIDUAL RISK REQUIRING A SPECIFIC ACTION TO BE AVOIDED	
	WARNS OF A RESIDUAL RISK OR INFORMATION THAT IS UNUSUAL AND CANNOT BE DESIGNED OUT	
	INDICATES AN ENVIRONMENTAL HAZARD	
A1. E1.	O1. D1.	E1. F1.
Site Related & Construction Risks	Operational & Maintenance Risks	Demolition & Environmental Risks

The table above is provided to assist the Principal Contractor to fulfil their obligations under the Construction Design & Management Regulations, 2015. It does not include residual risks that a competent Contractor will be aware of nor does it obviate the Principal Contractor of his legal responsibilities.  
For further hazard and risk information, refer to Designer's Risk Assessment: 170151-1414-XX-RE3-2015-XXXX-XXXX-SHE  
**SAFETY HEALTH AND ENVIRONMENTAL INFORMATION BOX**

# WP 004b – Sector N1 – Enabling Works North Contract

## Kenilworth Greenway - Hob Lane Access / Egress Design & Assumptions Log

Document Number: 1EW04-LMJ-HW-REP-NS01\_NL03-004023

Revision	Author	Checked by	Approved by	Date	Reason for revision
C01	Dennis Powell	Anthony Cabria	Rahul Bagchi	17.05.2019	For Acceptance
P01	Max Wilkinson	Dennis Powell	Rahul Bagchi	10.04.2019	For Information

**Rahul Bagchi**  
Digitally signed by Rahul Bagchi  
 DN: cn=Rahul Bagchi, c=GB,  
 o=Ramboll UK Ltd, ou=Central  
 Highways,  
 email=rahul.bagchi@ramboll.co.uk  
 Date: 2019.05.17 08:29:55 +01'00'

DOCUMENT OWNER: RAHUL BAGCHI

SECURITY CLASSIFICATION: OFFICIAL

Handling instructions: Uncontrolled when printed

# Contents

<b>1</b>	<b>Purpose</b>	<b>2</b>
1.1	Context	2
<b>2</b>	<b>Scope</b>	<b>2</b>
2.1	Design of Temporary Site Access / Egress at Hob Lane to support Schedule 4 Part 1 Applications – Design Decisions	2
2.2	Design of Temporary Site Access / Egress at Hob Lane to support Schedule 4 Part 1 Applications - Assumptions	5
<b>3</b>	<b>Abbreviations</b>	<b>6</b>
3.1	Abbreviations	6

# 1 Purpose

## 1.1 Context

- 1.1.1 This document is maintained as a WIP document during the design stage for the work package and issued for information at the completion of the design stage. It will be hosted on DJV ProjectWise until issue at the end of the design stage.

# 2 Scope

## 2.1 Design of Temporary Site Access / Egress at Hob Lane to support Schedule 4 Part 1 Applications – Design Decisions

- 2.1.1 Design decisions are summarised below:

Reference	Design Decision	Rationale
KGHL001	Use of proposed Greenway Crossing in the Detailed Design under Work Package 51, at point of new site access / egress.	To keep with LoD / LLAU and minimise disruption to existing environment.
KGHL002	Design Vehicle Requirements are gt Dumper and JCB.	Information provided by Contractor to inform Design.
KGHL003	Traffic Volume per Day is 12 vehicles.	Information provided by Contractor to inform Design.
KGHL004	Where BPA Fuel Pipeline intersects design, concrete slab protection will be required to protect asset.	BPA pipeline is a major asset and damage to the asset would cause a major incident. Slab design developed and to be agreed with BPA subject to trial hole results.  Protection to services to be in place before works commence as per design undertaken in Work Package 51.

Reference	Design Decision	Rationale
KGHL005	Existing ditches to be re-used / incorporated into the design have allowance made for clearance of vegetation and detritus.	Ditches cleared to allow free flow of water through works where new and existing ditches / drainage is required.
KGHL006	Utility Protection.	Goal Post protection to existing Overhead Line crossing the access route. Protection to below ground utilities to be confirmed in accordance with the requirements of the utilities providers.  Protection / diversion to services to be in place before works commence.
KGHL007	Site Access Warning.	Signage proposed to provide advanced warning of works access points to the public. Vegetation clearance is required in this location to ensure visibility is sufficient.
KGHL008	Site boundaries.	Site boundaries to be defined by existing established hedgerows or fence-lines where possible. Fencing (post and wire) selected to provide temporary boundary that can be removed upon establishment of planting.
KGHL009	Post & wire boundary fencing.	Low vehicle design speeds (approximately 15mph) anticipated, the temporary nature of the access routes and the low volume of traffic anticipated.
KGHL010	Interface with Public.	Traffic Management implemented to protect users. It is anticipated low vehicle movement.

Reference	Design Decision	Rationale
KGHL011	Undertakings and Assurances (U&A).	It is assumed constructability, consenting and other potential implications have been considered and will be addressed, as applicable, within the construction phase of works.
KGHL012	Site Access Junction – paved / granular fill.	Paved / Granular Fill section leading into access route from public highway to reduce debris pollution and to provide safe access and egress.  Lifecycle of access to be six months.
KGHL013	Pavement Construction for Access.	Use of Pavement Type 11 Option 1a (WP51 Access Roads) from drawing reference 1EW04-LMJ-HW-DPI-N001-051019.  This Pavement assumes CBR of 2.5% and is suitable for Construction Traffic.
KGHL014	Access design only undertaken.	All other elements such as General Arrangement, Fencing, Drainage etc has been referenced via Work Package 51.
KGHL015	Visibility Splay at Access / Exit.	Assessment carried out using TD42/95 – Geometric Design of Major / Minor Priority Junctions.  Findings have been detailed on Visibility Splay drawings submitted under Schedule 4 Part 1 Application, detailed on Visibility Splay Drawing (ref: 1EW04-LMJ_DJV-HW-DPL-NS01_NL03-004352).

Reference	Design Decision	Rationale
KGHL016	Traffic Management not included within design.	Contractor to be responsible for Traffic Management and to ensure compliance to Chapter 8.
KGHL017	200mm Topsoil strip throughout extent of works.	Decision based on guidance from HS2 Technical Standard – Soil Handling for Land Restoration (ref: HS2-HS2-EV-STD-000-000008).  This may change following further review / discussion with HS2.
KGHL018	Topsoil Management.	Topsoil Management / Storage to be in accordance with WP51 Material Management Plan, Document Reference 1EW04-LMJ-EV-PLN-NS01_NL03-051001.

## 2.2 Design of Temporary Site Access / Egress at Hob Lane to support Schedule 4 Part 1 Applications - Assumptions

2.2.1 The following assumptions have been made during the design:

1. Survey information procured and undertaken by HS2 or LM in previous work stages is provided at commencement of the works in a native electronic file format suitable for our use and accessible in a suitable collaborative design environment provided by others.
2. All temporary works and traffic management design, unless otherwise identified in the Baseline Design Report, checking and management will be undertaken by LM or others.
3. It is assumed that HS2 will act as Principal Designer for the scheme and LM as the Lead Designer EWC North. Regarding CDM roles and responsibilities. DJV will be engaged as Designer.
4. It is assumed that any departures identified as required during the design are accepted by the relevant Highway Authorities and HS2. These will be flagged as soon

as possible to allow early agreement with the approval authority.

5. No allowance has been made for liaison with Environmental Regulators in relation to contamination at any of the sites
6. There are no illegal foot and mouth pits present at any of the sites covered under WP51.
7. Construction planning and phasing drawings are excluded from the design.
8. The available HS2 LiDAR information from the EDP/Hybrid Bill reference design stage will be sufficient for the design stage. If the topographical survey identifies any significant discrepancies during the design this will be the subject of a compensation event.
9. The Design has been undertaken using appropriate assumptions for the geotechnical properties. The assumed properties will be compared with the output from the Geotechnical Investigations undertaken. It is assumed no redesign will be required.
10. There is no requirement to undertake any quantitative whole life cost assessments. In considering value for money qualitative assessments will be undertaken.
11. Results of trial excavations may result in additional utility diversionary works beyond those indicated in the design.

## 3 Abbreviations

### 3.1 Abbreviations

3.1.1 For reference see below list of abbreviations used with this Design & Assumption Log:-

- EWC – Enabling Works Contract
- EA – Environment Agency
- HS2 – High Speed 2
- AIP – Approval In Principle
- LiDAR – Light Detection and Ranging (survey data methodology)
- LM - Laing Murphy
- MWCC – Main Works Civils Contractor
- DJV – Design Joint Venture



- CDM – Construction, Design & Management
- U&A – Undertakings & Assurances.
- LOD – Limits of Deviation
- LLAU – Limits of land to be acquired or used