

**Kier Highways Project No: 1050471**  
**Client Reference No: 565232**  
***M5 J22-23 River Brue Bearings MP182-185***  
**Pre-Construction Information**

Red text is a suggested starting point. To be extended, edited or amended as required. Final text to be black.

	Yes	No
Is the Scheme notifiable under the CDM Regulations 2015?		
1. Last longer than 30 working days and have more than 20 workers simultaneously at any point in the project;		✓
2. Exceed 500 person days		✓

Project type as categorised by GG104	A
* If applicable GG104 will determine the Kier Highways minimum Scheme Principal Designer (Scheme PD) level. Refer to SHEMS-FOR-HIG-S-055 for GG104 type categorisation and minimum Scheme PD level. Type A projects the Design Team Lead, Type B projects the Senior Manager, Type C projects the Service Director.	

This document has been produced in accordance with the recommendations and requirements of the Construction (Design and Management) Regulations 2015.



'Reviewed by' & 'Accepted by' can be the same person for GG104 type A projects (where the Design Team Lead is the Scheme PD)



Authorised By: [REDACTED]	Page 1 of 12	SHEMS-FOR-HIG-051
Author: Highways CDM Team	Date: October 2019	Version: 1.0
As part of our system review, this document is valid until April 2020		



Site Specific Hazards Identified in Design		
<p><b><i>ONLY</i></b> include significant and unusual hazards that a competent contractor would need to know, could not reasonably foresee, or are likely to be difficult to manage effectively.</p> <p><b>Note – Consideration to be given to all ‘populations’ affected, Workers, Users, Other Parties.</b></p>		
Activity	Residual Hazard	Comments
Carrying out concrete inspection and testing at top of piers.	Working at height and working over a watercourse	It is envisaged that an underbridge unit located on the hard shoulder within a TM closure will be required although working from a pontoon may be an alternative.

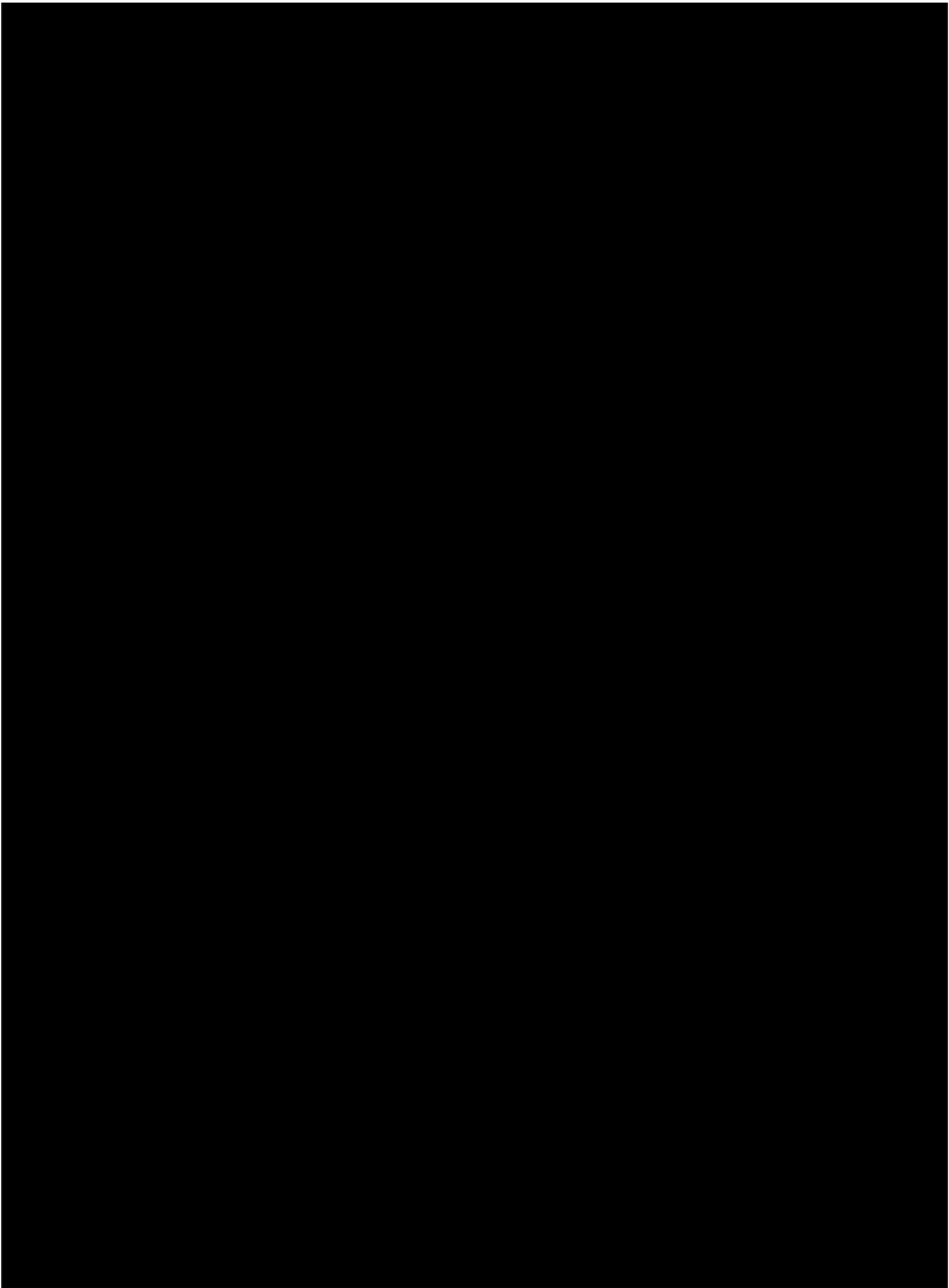
FOR INFORMATION ONLY



Authorised By [REDACTED]	Page 2 of 12	SHEMS-FOR-HIG-051
Author: Highways CDM Team	Date: October 2019	Version: 1.0
As part of our system review, this document is valid until April 2020		



<b>1 Project Description</b>					
<b>Scope of Works</b>					
<p>This project comprises a visual and delamination survey of the diaphragm beams, pier (tops only) abutments and bearings plinths. Concrete testing will also be carried out to the pier (tops only) and abutments, to ascertain the extent of any deterioration observed.</p> <p>See Scheme Drawings listed in Appendix B.</p>					
<b>Location</b>					
<p>River Brue and Huntspill River Bridges are located over River Brue and Huntspill River, to the north of Huntspill in Somerset. Both structures carry the M5 northbound and southbound carriageways.</p> <p>See Location Plan in Appendix A.</p>					
<b>Site Address</b>		<p><b>River Brue:</b> Brent Farm, Highbridge, TA9 3QA  <b>Huntspill:</b> Minstrels Farm, Withy Rd, Highbridge, TA9 3NW</p>			
<b>Site Photographs</b>					
					
<p><b>Figure 1:</b> River Brue Southeast Elevation</p>			<p><b>Figure 2:</b> Huntspill River Bridge, Southeast Elevation.</p>		
<b>OSGR, MP or</b>	<b>From</b>	332839, 146482 (River Brue)	<b>To</b>	332255, 144340 (Huntspill)	
<b>Str Key / Name</b>	1812	River Brue Bridge			
	1818	Huntspill River Bridge			
<b>Traffic Management</b>					
<p>It is envisaged that Traffic Management will consist of overnight Hard Shoulder and Lane 1 closures. Work should be phased so that it is carried out on one bridge and one carriageway at any one time.</p> <p>AADT is: (49065 North and 51777 South)</p>					
<b>Anticipated Working Hours, subject to Traffic Counts</b>			8pm to 6am overnight work		
<b>Mobilisation Period</b>	2 weeks	<b>Anticipated start date</b>	21/02/2020	<b>Anticipated end date</b>	24/02/2020



Authorised By: [REDACTED]	Page 4 of 12	SHEMS-FOR-HIG-051
Author: Highways CDM Team	Date: October 2019	Version: 1.0
As part of our system review, this document is valid until April 2020		



3. Scheme Specific Requirements			
	Yes	No	Comments
Does an H&S file exist?	X		H&S file from 1998 Refurbishment Works for both structures exists.
Site Welfare	X		Mobile unit to be provided by the contractor.
Security / Segregation	X		A Public Rights of Way (PRoW) crosses the south side of the site at River Brue Bridge. If required, the MEWP can be moved temporarily to allow any Non-Motorised Users (NMUs) to cross the site when safe to do so.
Are there any other projects taking place in the vicinity?		X	There are no other known planned works in the area other than this scheme consisting of two separate structures (River Brue Bridge and Huntspill River Bridge).
Are there any restrictions on vehicle movements?	X		All site vehicles (incl. delivery vehicles) must abide by the TM requirements and regulations 1. enter and exit site from the dedicated points; 2. Comply with the designated site safety speed limits; 3. Reverse in-line with the Principal Contractor's Vehicle Reversing Policy; All vehicles within Traffic Management shall comply with the conspicuity requirements of Chapter 8.
Are there any restrictions on deliveries, waste collection, or storage?	X		No deliveries to take place unless Traffic Management is in place. No waste shall be stored on site.
Are there any parking restrictions?	X		All vehicles and plant within the works area shall be parked in a safe area clear of access and egress points. All vehicles and plant shall be removed from the carriageway prior to removal of traffic management. No Private vehicles are allowed on site
Height Restrictions	X		Restricted height working under the two bridges.
Overhead Cables		X	Have overhead cables been identified on site? No
Structures		X	Are there any overhead structures? No

3. Scheme Specific Requirements			
	Yes	No	Comments
Will fire precautions be required?	X		<i>Suitable fire precautions shall be in place. All vehicles shall be fitted with fire extinguishers. All site personnel will be briefed and notified of the fire assembly point.</i>
Are emergency procedures and means of escape required?	X		<i>The Contractor shall ensure that emergency procedure plans are in place and all staff have been inducted.  Nearest A&amp;E hospital Musgrove Park Hospital, Parkfield Drive, Taunton, Somerset, TA1 5DA. Telephone: 01823 333444.</i>
Are there any areas in or around the site classified as no-go areas?	X		<i>No site personnel shall enter the safety zones or tapers within the extents of the traffic management unless trained and competent for installation/removal/maintenance of TM. Sub-Contractor's Method Statements and Risk Statements shall contain suitable risk control to protect pedestrian workers and plant operators.</i>
Are there any noise restrictions?		X	<i>No</i>
Are temporary works required?		X	<i>No</i>
Are there any vibration restrictions?		X	<i>No</i>
Are there any poor or hazardous ground conditions?	X		<i>Works are being carried out directly to River Brue and Huntspill River Bridges which have access paths (soft ground may be present) beneath the structures.</i>
Are there any unstable structures?		X	<i>No</i>
Are there any areas (existing or designed) classed as confined spaces?	X		<i>Manhole chambers/ access to bearing chamber. If access to these areas is required, staff associated with these works must have undertaken suitable confined spaces training, Method Statements and Risk Assessments shall contain suitable risk control to protect workers.</i>
Are there any smoking restrictions?	X		<i>No smoking is allowed on site. Designated smoking areas to be confirmed during site inductions. This information is to be confirmed once scheme is in the delivery phase.</i>
Any environmental constraints identified?	X		<i>There is a local wildlife site over River Brue and Huntspill River is within a National Nature Reserve. No contaminated water shall be discharged into the River/watercourses.</i>

**Materials and Substances with Health and/or Safety Hazards**

**Asbestos**

*There are no known Asbestos Containing Materials (ACMs) in the areas where the survey/testing will be carried out. However, if ACMs are found during the survey/testing, all works shall stop immediately and the area is to be isolated from the workforce. The Contractor must inform the Principal Contractor, who will then implement the necessary emergency response procedures in line with the Company policy.*

*Under no circumstances will the Contractor attempt to remove any Asbestos Containing Materials without prior consent from the overseeing organisation.*

*Asbestos Action Plans will be provided to the contractor before the works start.*

**Lead**

*Scope of Works are unlikely to encounter lead.*

**Tar based pavement/surfacing**

*No works within the pavement, so Tar unlikely to be encountered and not applicable to this type of work.*

**Leptospirosis/Weil's disease / Psittacosis**

*Potential risk of exposure to the water from the river(s) and contracting Weil's disease. The Contractor is to ensure sufficient welfare facilities are in place at all times. All appropriate PPE must be worn at all times.*

*Any instances of illness / sickness on site should be reported to the Site Manager/Principal Contractor Representative immediately and the persons affected should seek medical advice.*

DESIGNER'S PRE-CONSTRUCTION INFORMATION ONLY



Authorised By: [REDACTED]	Page 7 of 12	SEMS-FOR-HIG-051
Author: Highways CDM Team	Date: October 2019	Version: 1.0
As part of our system review, this document is valid until April 2020		



4. Existing Services		Refer to STATS plans listed in Appendix D		
Statutory Undertaker	Not Present	Over head	Under ground	Comments
<b>Electricity</b> If overheads cables are identified they should be clearly marked on the scheme drawings				
400/132kV [pylons]	X			
66kV	X			
33kV	X			
11kV		X	X	11kV and low voltage cables are present in area but not close to or in immediate proximity of works.
240/415Volts	X			
<b>Water (Foul and Potable)</b>				
Public Foul			X	
Pressurised Foul	X			
Public Combined Gravity	X			
Pressurised Combined	X			
Culverted Watercourse			X	Culvert present to the sides of Huntspill River Bridge but not in close proximity to the works.
Water Main			X	
Aqueduct	X			
<b>Communications</b>				
Communications			X	
<b>British Telecom</b> If overheads cables are identified they should be clearly marked on the scheme drawings				
British Telecom			X	
<b>National Grid</b>				
National Grid	X			
<b>Transco</b>				
LP Mains	X			
MP Mains	X			
IP Mains	X			
LHP Mains	X			
NHP Mains	X			
<b>Government Pipelines</b>				
Government Pipelines	X			
<b>Fisher German Pipelines</b>				
Fisher German Pipelines	X			
<b>Energis</b>				
Energis	X			
<b>Motorway Communication</b>				
Motorway Comms			X	Present along the motorway and located to the east side of Huntspill River Bridge but not in the vicinity of the works, so should be unaffected.
<b>Street Lighting</b>				
Street lighting	X			
<b>Highway Drainage</b>				
			X	
<b>Other</b>				
			X	

**5. Health and Safety file requirements**

All information will be produced in an electronic format. The format of the electronic data issued is to be as follows: All documents and product data sheets are to be in PDF format, drawings are to be in PDF and AutoCAD DWG format.

The Principal Contractor shall collate all appropriate information as it becomes available, and this shall subsequently be collated in the File. The Principal Contractor is to implement an early procedure that advises contractors and materials suppliers of the detailed requirements for this record information. The health and safety file will be created and/or updated in accordance with the requirements of the IAN105/08.

FOR INFORMATION ONLY



Authorised By: [REDACTED]	Page 9 of 12	SHEMS-FOR-HIG-051
Author: Highways CDM Team	Date: October 2019	Version: 1.0
As part of our system review, this document is valid until April 2020		



**Appendix A - Location Plan**

See below for Location Plan (and Appendix B)



**Appendix B - Construction Drawings**

Current scheme drawings listed below.

Reference	Rev	Title
HE565232-M5_ML_BR_1812	P1	Location Plan – River Brue
HE565232-M5_ML_BR_1818	P1	Location Plan - Huntspill
405/201/811/2/C	C	General Arrangement River Brue showing areas for testing
405/201/807/2/D	D	General Arrangement Huntspill River Bridge showing areas for testing



Authorised By: [REDACTED]	Page 10 of 12	SEMS-FOR-HIG-051
Author: Highways CDM Team	Date: October 2019	Version: 1.0
As part of our system review, this document is valid until April 2020		



## Appendix C – Existing Records and As-Built Drawings

Existing records and as-built drawings listed below.

	Reference	Rev	Title	Company
River Brue Original As-built Drawings (1973)	405/201/811/2/C	C	General Arrangement	Somerset County Council
	405/201/811/7/B	B	Details of Central Piers	Somerset County Council
	405/201/811/8/B	B	Pier Reinforcement	Somerset County Council
	405/201/811/9/C	C	Concrete Beam Details	Somerset County Council
	405/201/811/10/D	D	Deck Layout	Somerset County Council
	405/201/811/11/B	B	Deck Reinforcement	Somerset County Council
	405/201/811/14/B	B	Details of Invert Slab to River Bed and Banks	Somerset County Council
	405/201/811/16/A	A	Approach Span Reinforcement	Somerset County Council
	405/201	0	Sequence of Placing Concrete at Expansion Joints	Somerset County Council
Huntspill Original As-built Drawings (1973)	405/201/807/2/D	D	General Arrangement	Somerset County Council
	405/201/807/7/B	B	Details of Central Piers	Somerset County Council
	405/201/807/8/B	B	Pier Reinforcement	Somerset County Council
	405/201/807/9/C	C	Concrete Beam Details	Somerset County Council
	405/201/807/10/0	0	Deck Layout	Somerset County Council
	405/201/807/11/0	0	Deck Reinforcement	Somerset County Council
	405/201/807/14/C	C	Details of Invert Slab to River Bed and Banks	Somerset County Council
	405/201/807/16/A	A	Approach Span Reinforcement	Somerset County Council
River Brue Bearing Replacement Drawings (1999)	BP 1035.015 – 0102A	B	Deck Strengthening Details & Partial Demolition	Atkins
	BP 1035.015 – 0103A	B	Pier Partial Demolition	Atkins
	BP 1035.015 – 0104A	B	Pier Bearing Details	Atkins
	BP 1035.015 – 0111A	B	Abutment Bearing Details	Atkins
Huntspill Bearing Replacement Drawings (1999)	BP 1035.016 – 0202A	B	Deck Strengthening Details & Partial Demolition	Atkins
	BP 1035.016 – 0203A	B	Pier Partial Demolition Details	Atkins
	BP 1035.016 – 0204A	B	Pier Bearing Details	Atkins
	BP 1035.016 – 0211A	B	Abutment Bearing Details	Atkins

## Appendix D - Statutory Undertaker Drawings

List of statutory undertaker drawings listed below.

Reference	Rev	Title	Company
TOPO1250_M5_82_4277	-	C2 STATS Service Locations (Huntspill)	Kier
TOPO1250_M5_82_4278	-	C2 STATS Service Locations (Huntspill)	Kier
TOPO1250_M5_82_4279	-	C2 STATS Service Locations (Huntspill)	Kier
TOPO1250_M5_82_4280	-	C2 STATS Service Locations (Huntspill)	Kier
TOPO1250_M5_83_4281	-	C2 STATS Service Locations (Huntspill)	Kier
TOPO1250_M5_83_4282	-	C2 STATS Service Locations (Huntspill)	Kier
TOPO1250_M5_83_4283	-	C2 STATS Service Locations (Huntspill)	Kier
TOPO1250_M5_83_4284	-	C2 STATS Service Locations (Huntspill)	Kier
TOPO1250_M5_85_4289	-	C2 STATS Service Locations (River Brue)	Kier
TOPO1250_M5_85_4290	-	C2 STATS Service Locations (River Brue)	Kier
TOPO1250_M5_85_4291	-	C2 STATS Service Locations (River Brue)	Kier
TOPO1250_M5_85_4292	-	C2 STATS Service Locations (River Brue)	Kier

## Appendix E – Overhead cables

If overheads cables are identified they should be clearly marked on the contract drawings.

The following overhead services have been identified:

- Electricity: They can be found at the following grid references:
  - E: 332378 N: 144764
  - E: 332644 N: 145799
  - E: 332994 N: 146855

## Appendix F - List of Structures

Structure	Type	Location Ref	Str key	OSGR
River Brue Bridge	Highway Underbridge	/M5//182.80//	1812	332850, 146480
Huntspill River Bridge	Highway Underbridge	/M5//185.00//	1818	332260, 144320

## Appendix G - Asbestos Action Plans

**River Brue Asbestos Report.pdf** (Area 2 Contract – Joint Replacement Scheme, Area 2 M5//182.80, River Brue Bridge), May 2014.

**River Huntspill Asbestos Report.pdf** (Area 2 Contract – Joint Replacement Scheme, Area 2 M5//185.00, River Huntspill Bridge), May 2014.



Authorised By: [REDACTED]	Page 12 of 12	SEMS-FOR-HIG-051
Author: Highways CDM Team	Date: October 2019	Version: 1.0
As part of our system review, this document is valid until April 2020		

