

**National Asset Delivery  
Technical Surveys and Testing**

**Works Information for 605746-008-009-010**

**A11 Southbound A505 Babraham to M11 J9a  
Resurfacing**

**A11 Southbound Six Mile Bottom to Great  
Wilbraham Resurfacing**

**A11 Southbound Great Wilbraham to Balsham  
Resurfacing**

**Coring and DCP Survey**

**CONTENTS AMENDMENT SHEET**

<b>Amend. No.</b>	<b>Revision No.</b>	<b>Amendments</b>	<b>Initials</b>	<b>Date</b>
0	0	Original version issued with tender	JK	27/11/2020

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Appendix 3	Testing Plans
Appendix 4	Survey Schedules

## 1 DESCRIPTION OF THE WORKS

### 1.1 Project objectives

1.1.1 The principle objective of this project is to carry out pavement investigations at A11 Southbound between Six Mile Bottom and M11 Junction 9a.

1.1.2 The specification that applies to the *works* is included in Section 6

### 1.2 Scope of works

1.2.1 The *works* to be provided under this contract are:

All site works to be undertaken in accordance with the requirements set out in DMRB CS 229 (previously HD 29/08). Carry out coring in lane 1 and 2 (up to 12 cores/DCP per night), as per locations shown on the investigation plans supplied by Highways England. Cores to be 150 mm diameter to full depth of bound layer with site photos taken of the extracted core and core hole. Carry out DCP testing in core holes as indicated on the investigation plans supplied by Highways England, where safe to do so.

### 1.3 Deliverables

1.3.1 The *Contractor* is required to produce the following deliverables:

- (1) All reporting to be in accordance with the requirements set out in DMRB CS 229.
- (2) Produce a core log for each core.
- (3) Produce a DCP plot and layer table for each DCP test.
- (4) Provide a brief report on the results, with interpretation.
- (5) All results to be supplied in electronic format and in accordance with DMRB CS 229.

## 2 EXISTING INFORMATION

- 2.1.1 Schedule of cores required which require DCP is provided in Appendix 4 and additional information including plans detailing locations of cores, DCP test is shown in Appendix 3
- 2.1.2 The Drawings listed below apply to this contract and are supplied in the appendices to this Works Information.
- 2.1.3 Refer to the site information for details of existing site conditions including ground conditions, limitation on access, position of existing structures etc.

## 3 CONSTRAINTS ON HOW THE CONTRACTOR PROVIDES THE WORKS

### 3.1 General

- 3.1.1 The *Contractor* Provides the Works in such manner as to minimise the risk of damage or disturbance to or destruction of third-party property.
- 3.1.2 The *Contractor* complies with the constraints and meets with the requirements outlined in Appendix 1.
- 3.1.3 The *Contractor* submits information detailing how the *Contractor* will provide the Works to the *Employer* prior to the *works* commencing. This information will include any lifting plans, risk assessments, method statements, the *Contractor's* staff training information and any other relevant Health and Safety requirements.

### 3.2 Working hours & site-specific constraints

- 3.2.1 The *Contractor's* working hours for site works shall be 8.00 pm to 6.00 am Monday to Friday (starting from Monday night at 8.00 pm and ending on Saturday morning at 6.00 am). The estimated contract start date is 22/02/2021. The estimated contract completion date is 12/03/2021.
- 3.2.2 All work on main carriageway and associated slip roads and lay-bys.

### 3.3 TM to be provided by Construction Works Framework (CWF).

Health, Safety and Environment & Risk Management

#### Health and Safety requirements

- 3.3.1 In Providing the Works the *Contractor* meets the requirements of Annex 2 of the supplementary constraints in relation to health and safety duties.

- 3.3.2 When implemented, the *Contractor* shall comply with the requirements of Highways England's safety passport scheme and ensure that all his employees, and any of his subcontractor's, are registered in accordance with the implementation of the scheme.
- 3.3.3 For details of the CDM duty holders, refer to the pre-construction information, which is attached, CPP & other PCI to be provided upon successful tender.
- 3.3.4 Before commencing the construction phase of the *works*, the *Contractor* confirms to the *Employer* that adequate welfare facilities are in place. Where the facilities detailed in section 5 are not deemed adequate, the *Contractor* provides all necessary facilities to Provide the Works and to comply with the minimum requirements set out in HSE guidance document L153.

#### Environmental requirements

- 3.3.5 In Providing the Works the *Contractor* meets the requirements of Annex 2 of the supplementary constraints in relation to environmental duties.

#### Risk Management

- 3.3.6 The *Contractor* identifies, manages and mitigates risks in accordance with the principles of ISO31000.
- 3.3.7 The *Contractor* submits a risk register, which captures all risks associated with the delivery of the *works* including those identified by the *Employer*, with his tender and maintains it for the contract period.

## **4 REQUIREMENTS FOR THE PROGRAMME**

- 4.1.1 The *Contractor* submits programme to the *Employer* with his tender.
- 4.1.2 The *Contractor* Provides the Works taking into account the following programme constraints:
- (i) the *starting date* and *completion date* and any post site works, reporting and review period
  - (ii) The services and other things provided by *Employer* (see Section 5)
  - (iii) Results to be issued within 2 weeks of completing site work or as soon as reasonably practicable.
- 4.1.3 The programme should be in the form of an activity and time related bar chart, produced as a result of a critical path analysis.
- 4.1.4 The programme should preferably be provided in either a PDF or MS Excel format and cover the full contract period including post site activities.

Activities should be clearly defined and named, and the programme should detail the following:

- (i) dates and times associated with the project, including the *starting date*, *completion date* & *Contractor's* planned completion, and any other dates or times that will specifically impact the delivery of the project
- (ii) activities associated with delivering the project
- (iii) To provide updates and feedback on TM requirements if different to set up identified at tender.

4.1.5 The *Contractor* updates the programme every 3 days or as agreed with the Highways England Project Manager. The *Contractor* submits an updated programme to the *Employer* upon request.

## **5 SERVICES AND OTHER THINGS PROVIDED BY THE EMPLOYER**

5.1.1 The following temporary traffic management will be provided by the *employer* to allow the *Contractor* to Provide the Works:

- (1) CWF to provide traffic management (TM)
- (2) Duration: 14 shifts (expectation of up to 8 cores per shift and DCP)
  - Shift 1-7: Lane 1 closure
  - Shift 7-14 Lane 2 closure

5.1.2 The other things that will be provided by the *Employer* are as follows:

- (1) Welfare facilities will be provided by the principal contractor.

## **6 SPECIFICATION FOR THE WORKS**

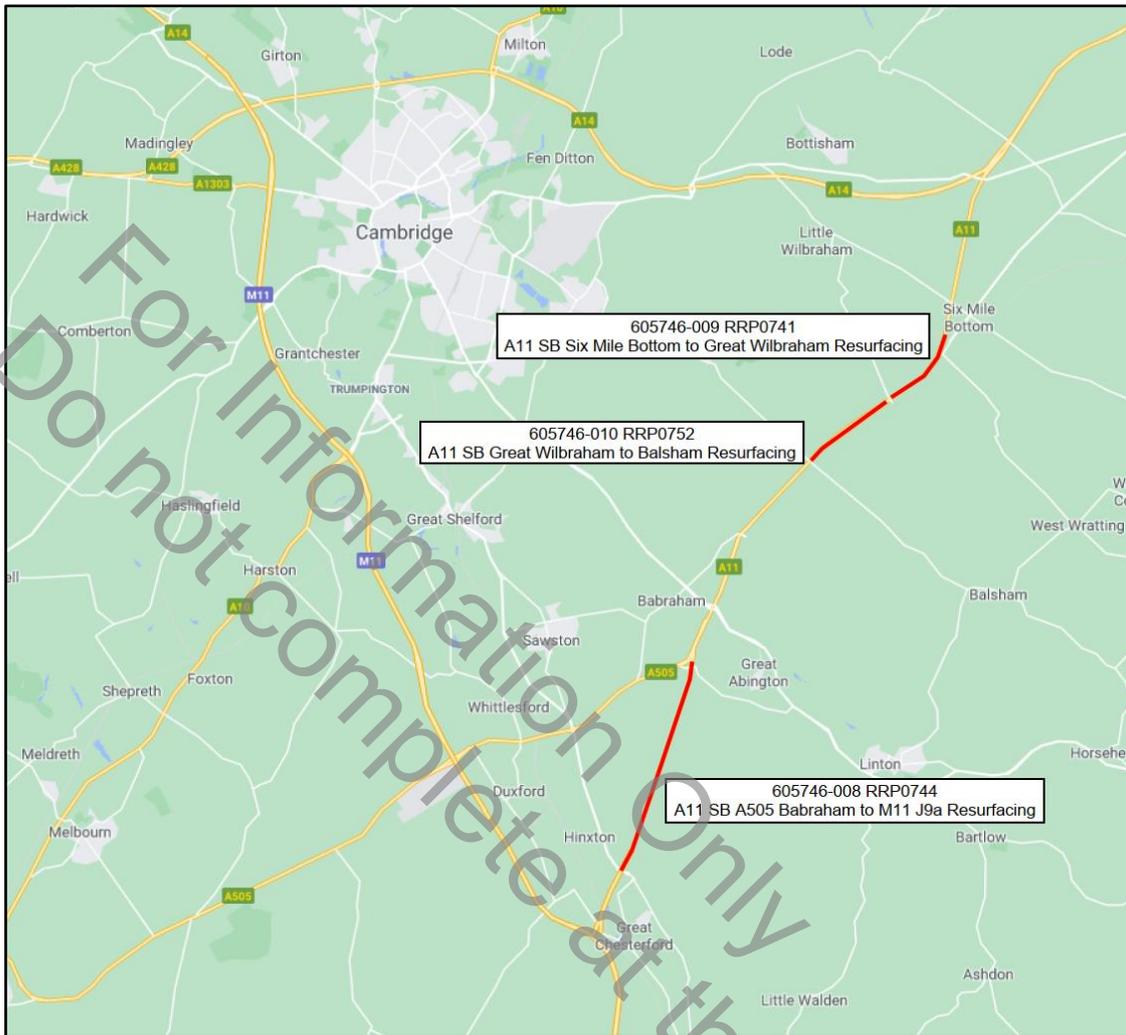
6.1.1 The *Contractor* shall undertake the works in accordance with:

6.1.2 DMRB CS 229

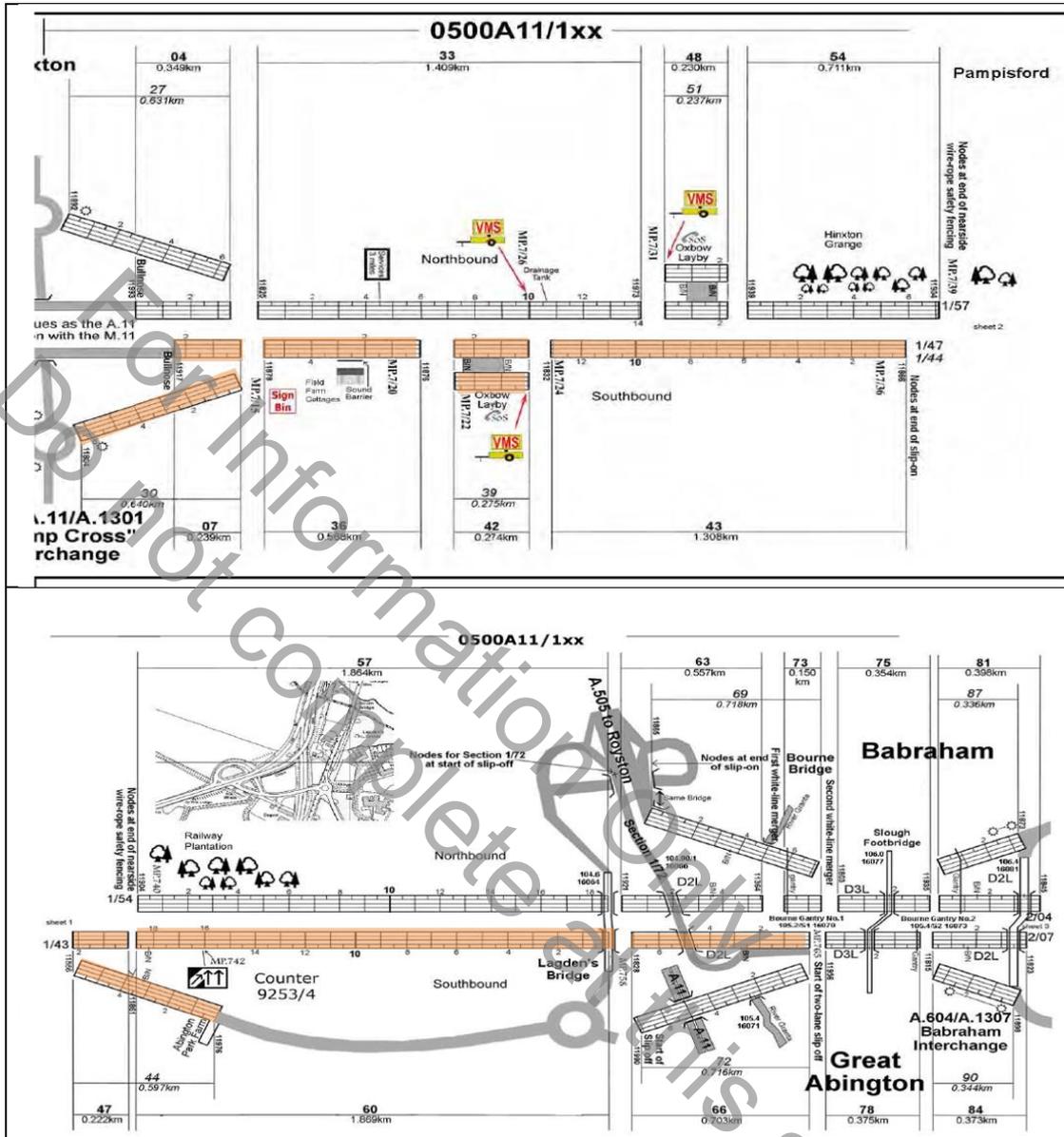
**Appendix 1 – Supplementary constraints**

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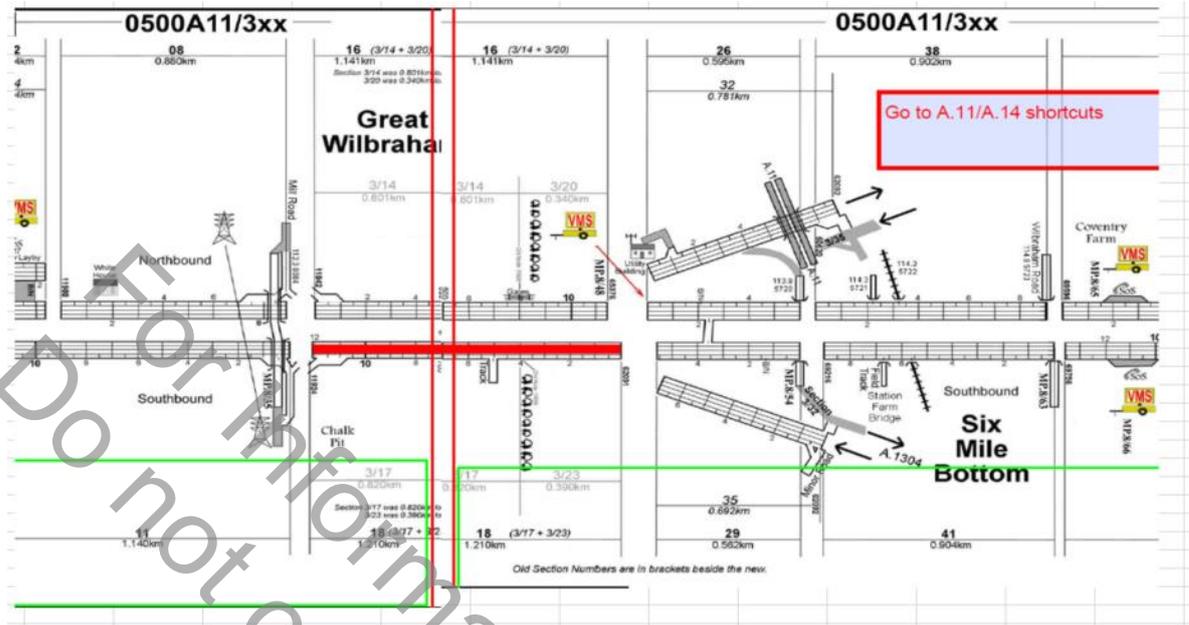
**Appendix 2 – Location Plans and works extents**



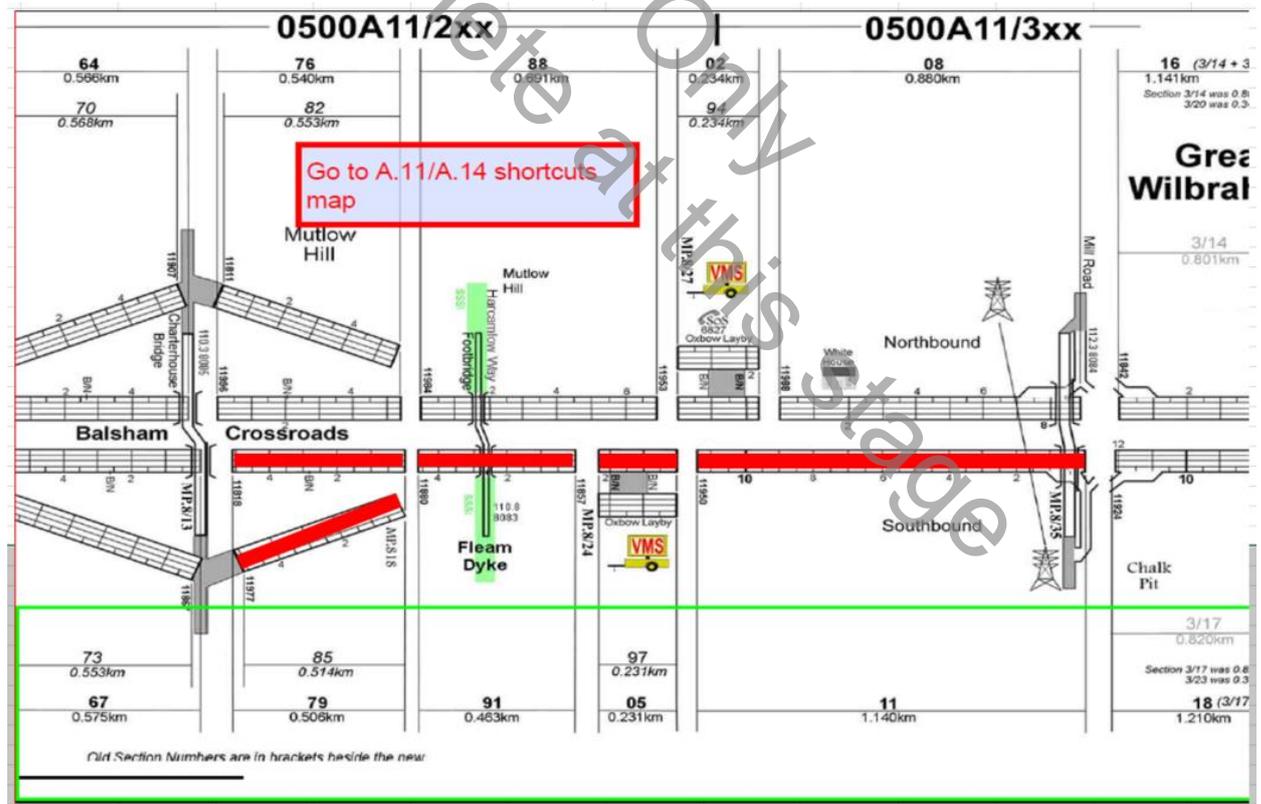
605746-008 RRP0744 A11 Southbound A505 Babraham to M11 J9a Resurfacing



### 605746-009 RRP0741 A11 Southbound Six Mile Bottom to Great Wilbraham Resurfacing

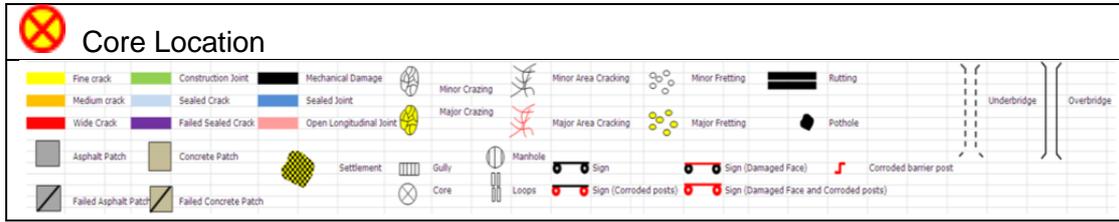


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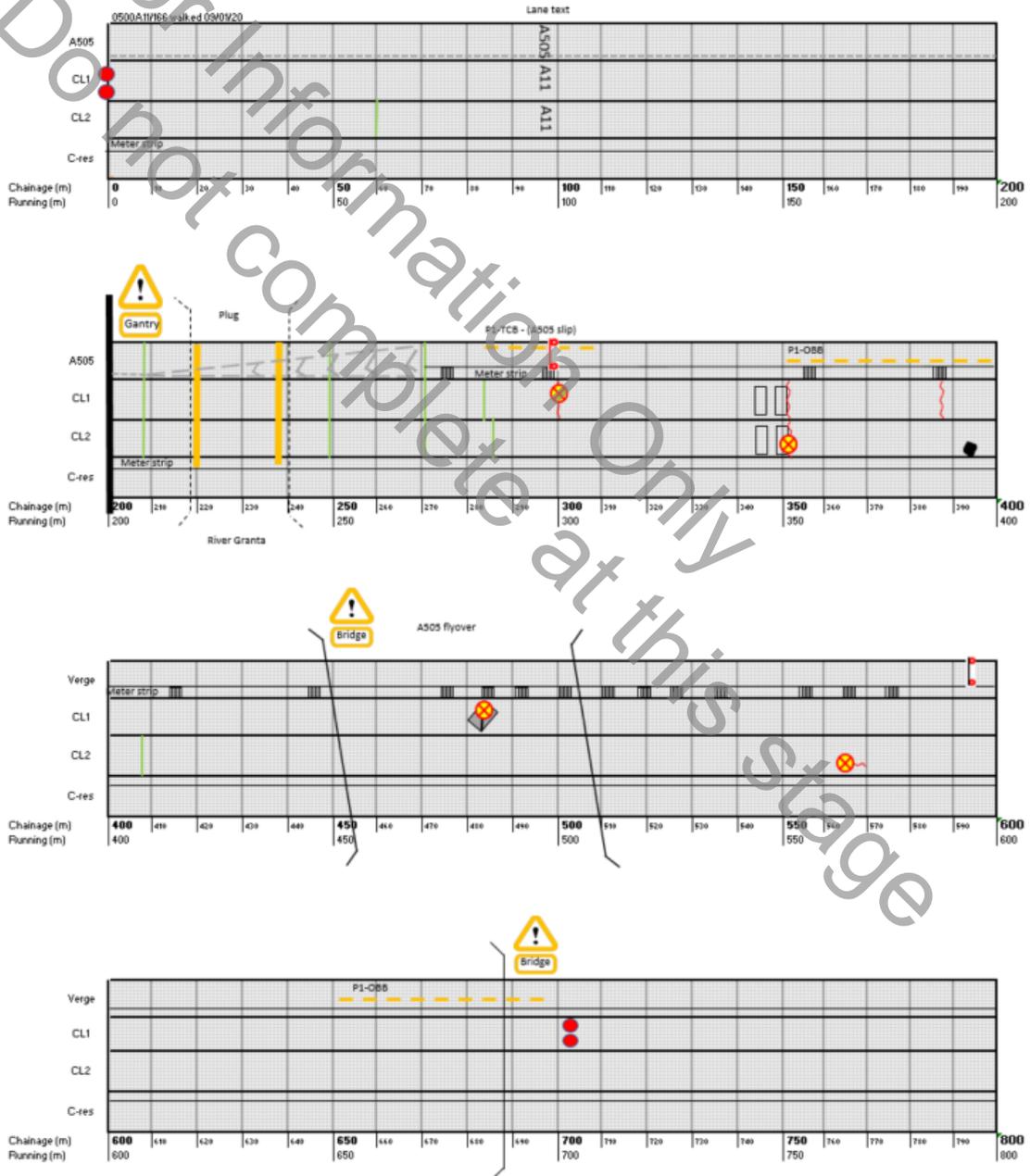


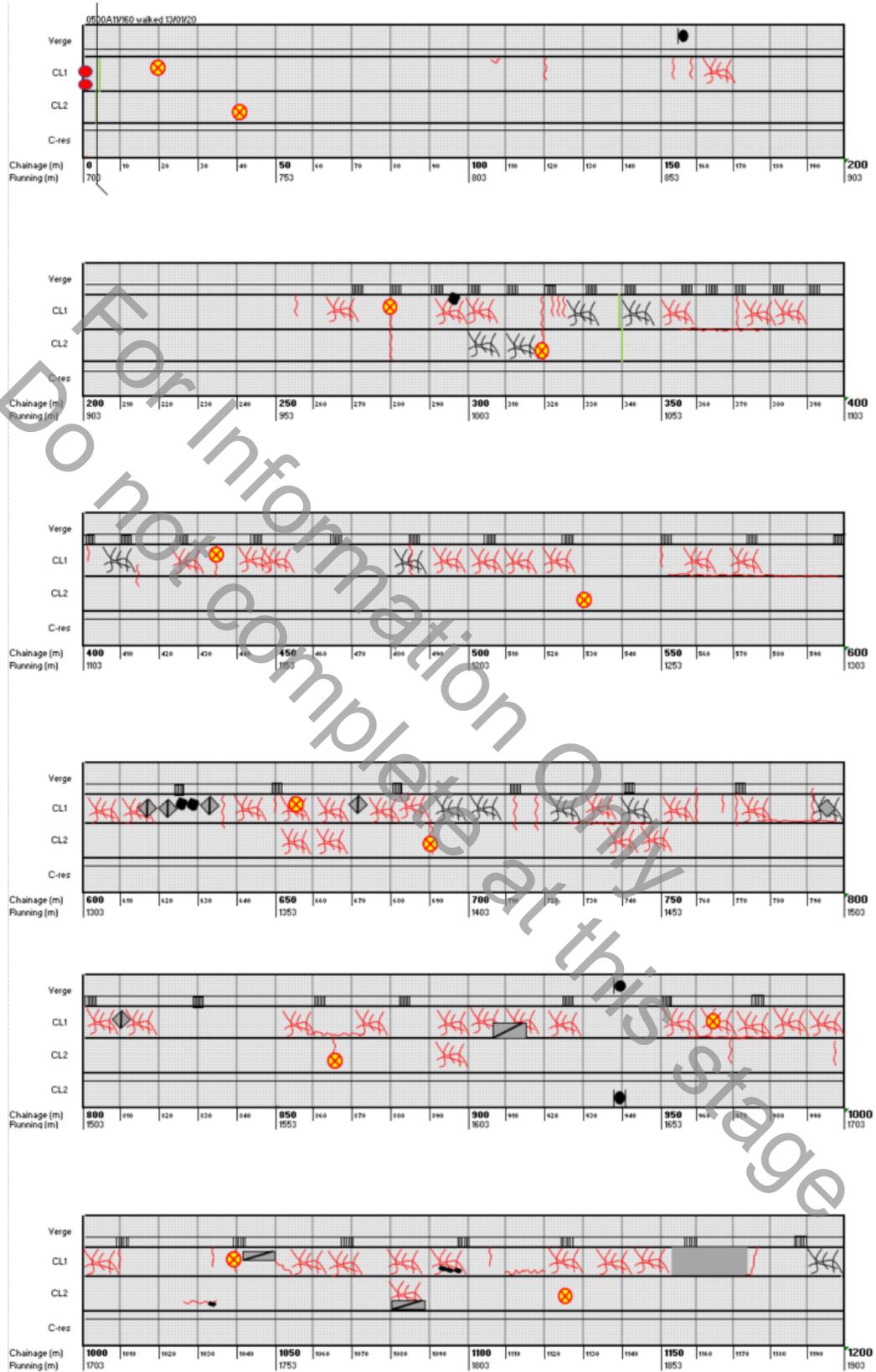
**Appendix 3 – Testing Plans**

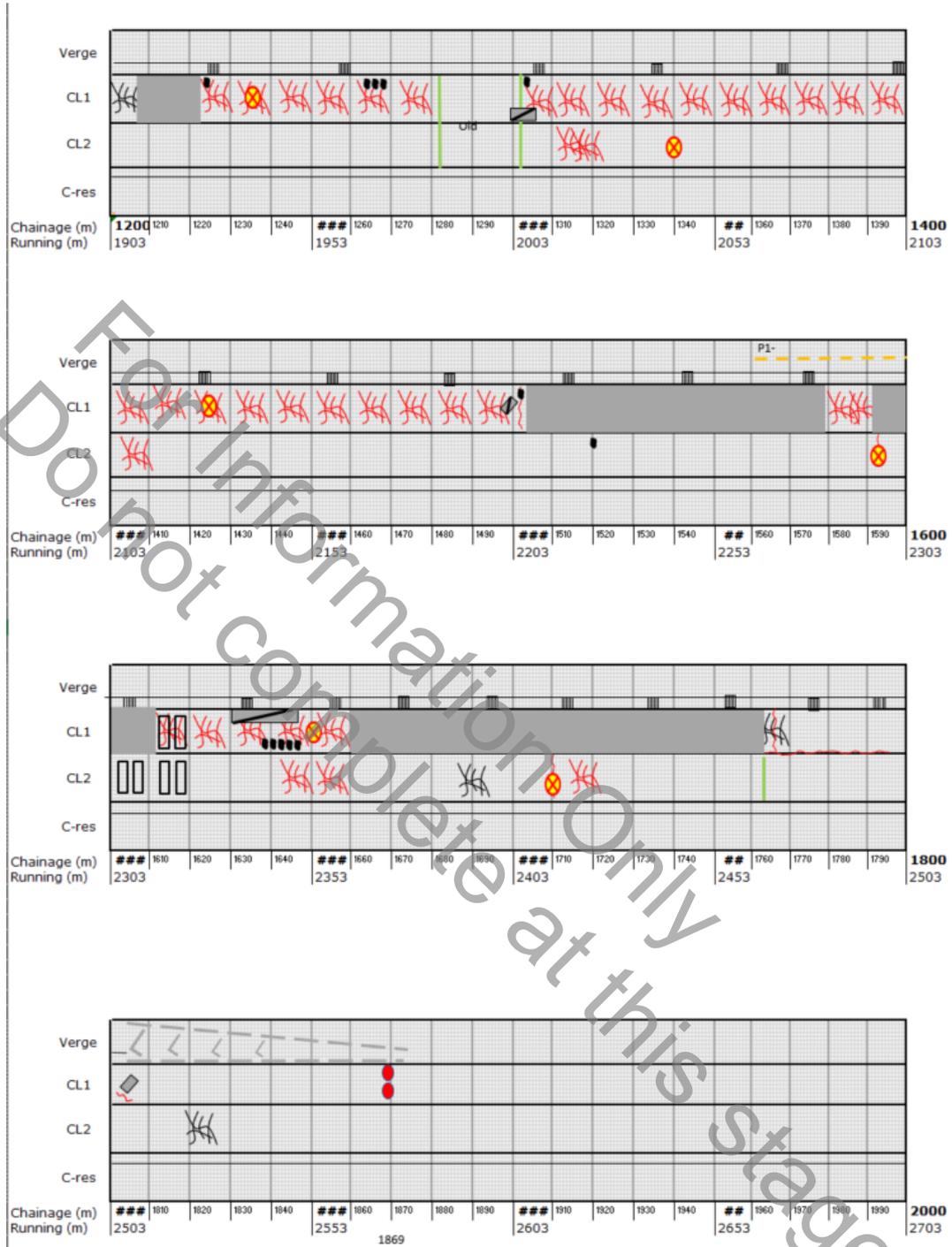
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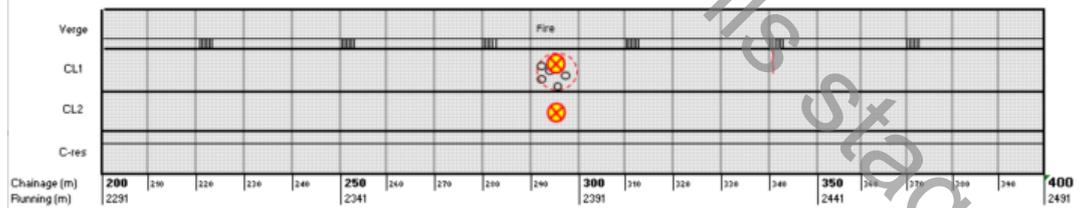
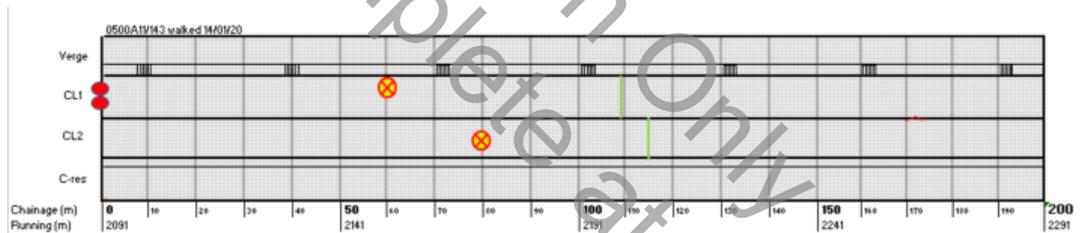
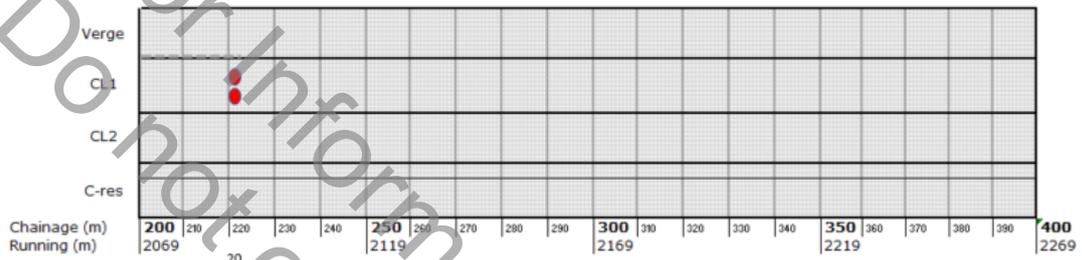
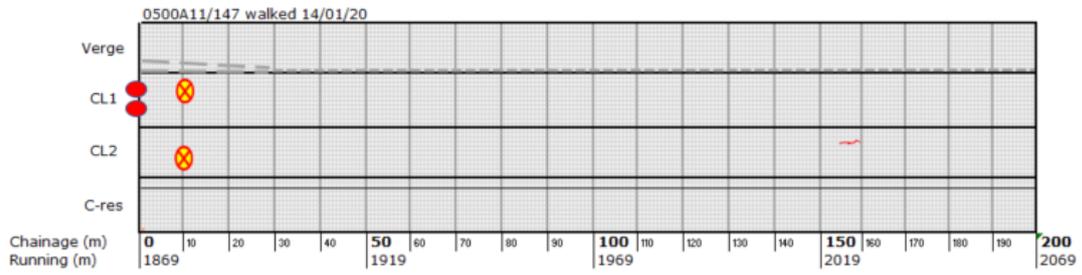


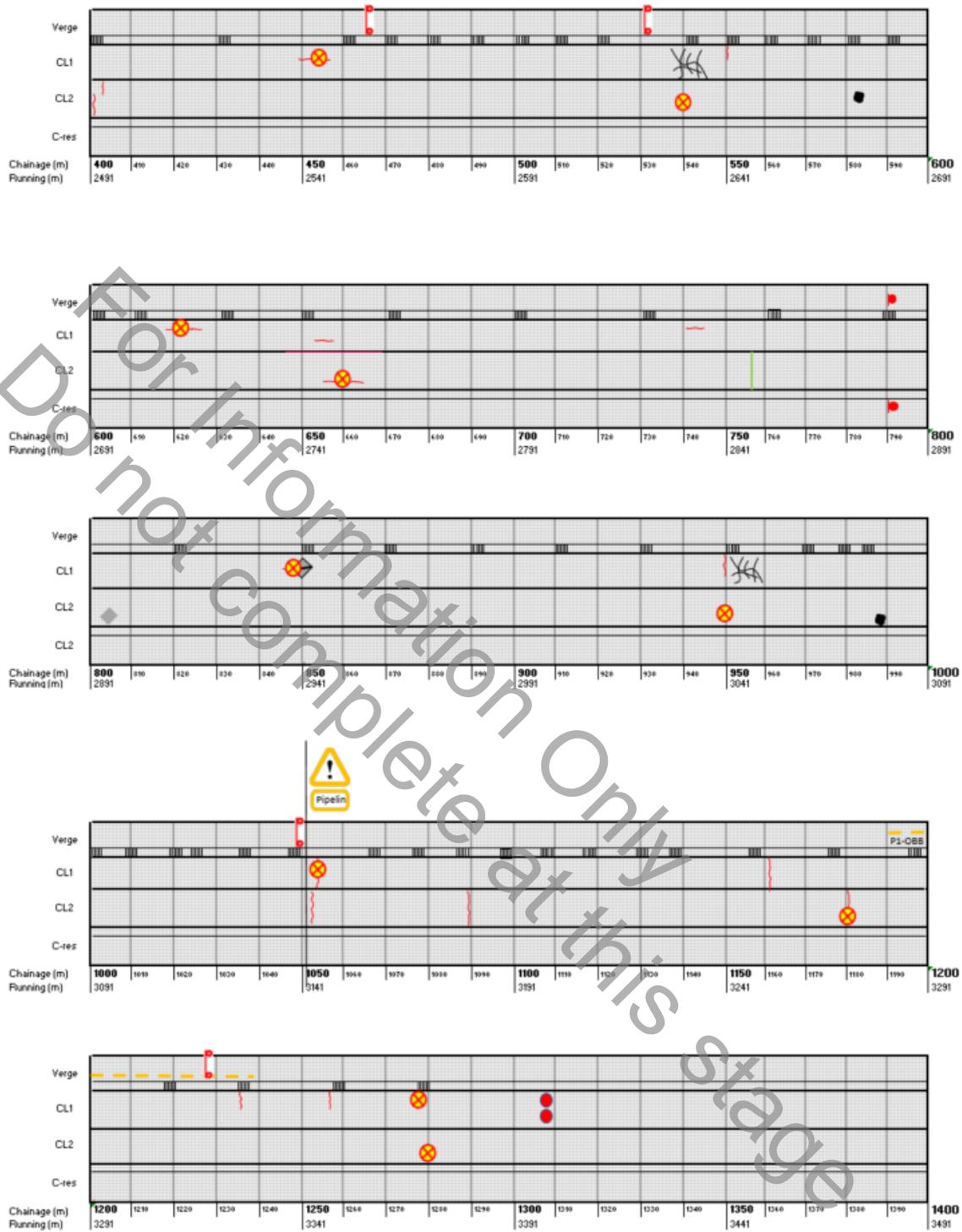
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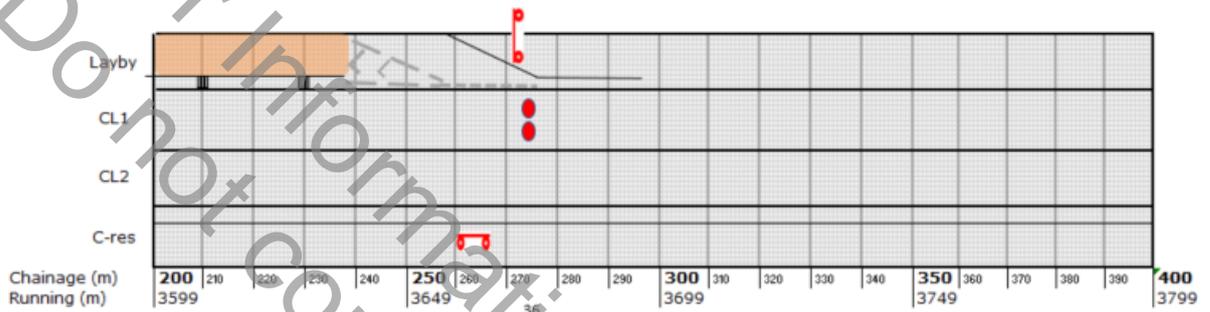
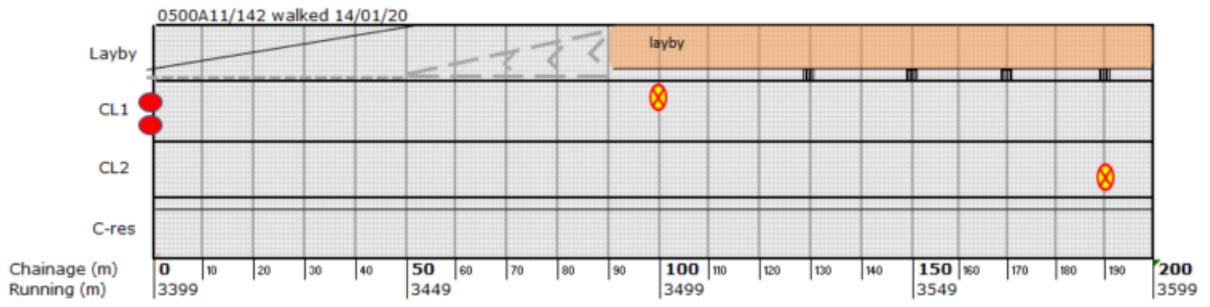




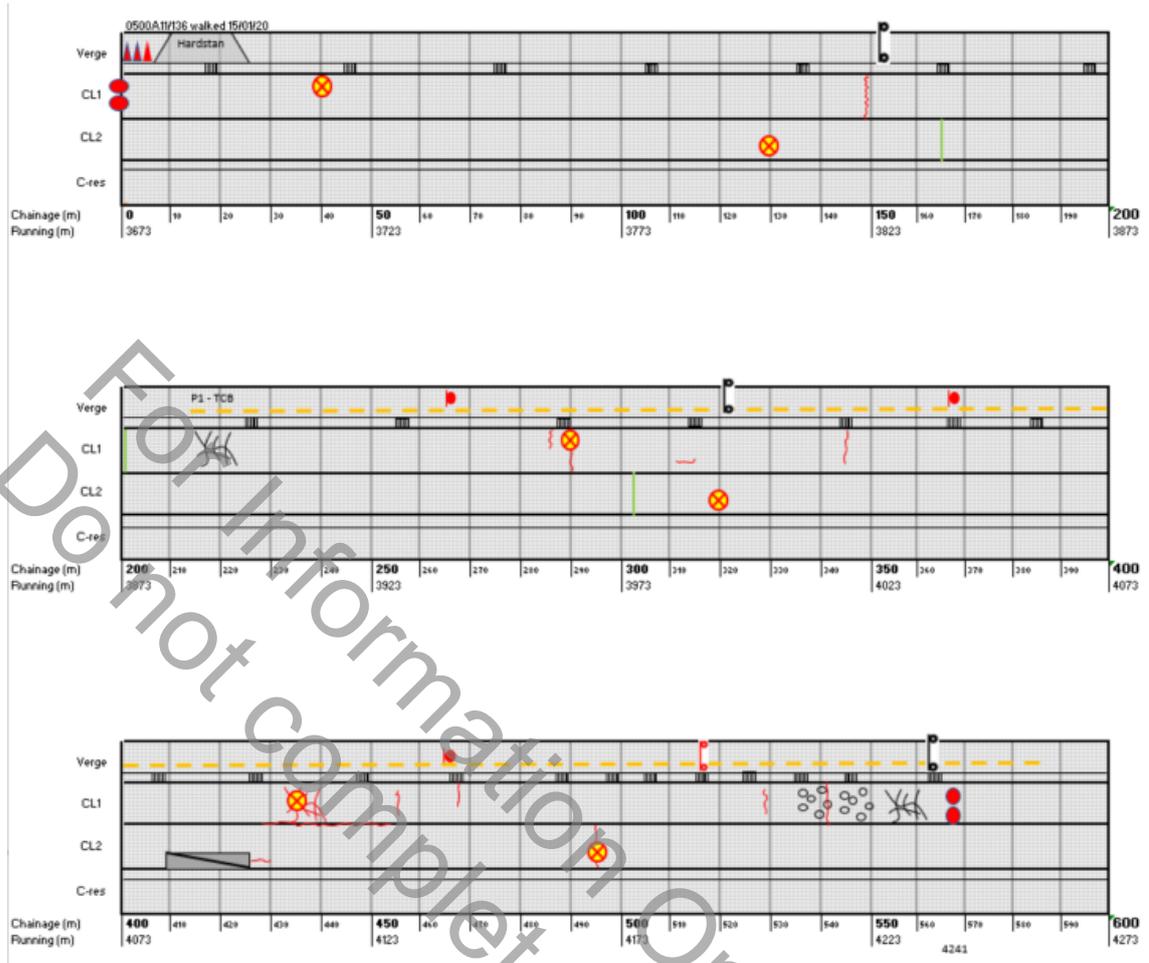


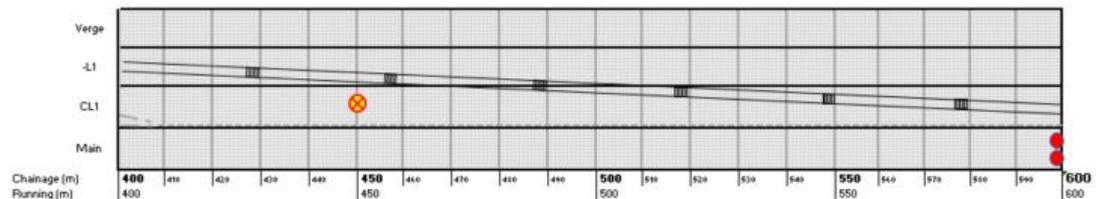
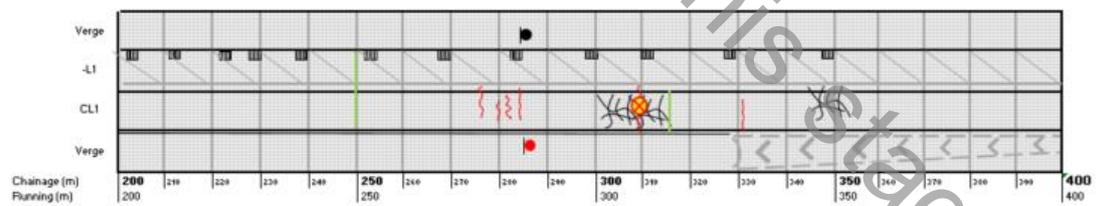
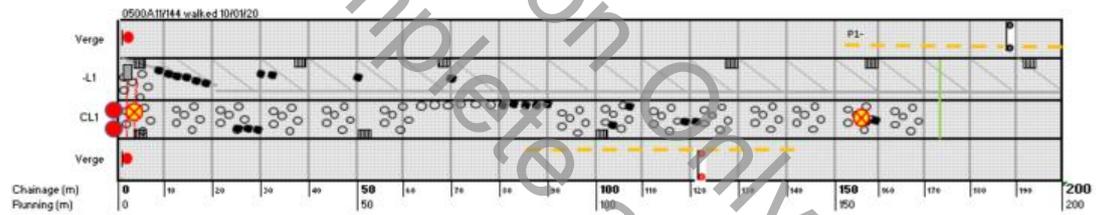
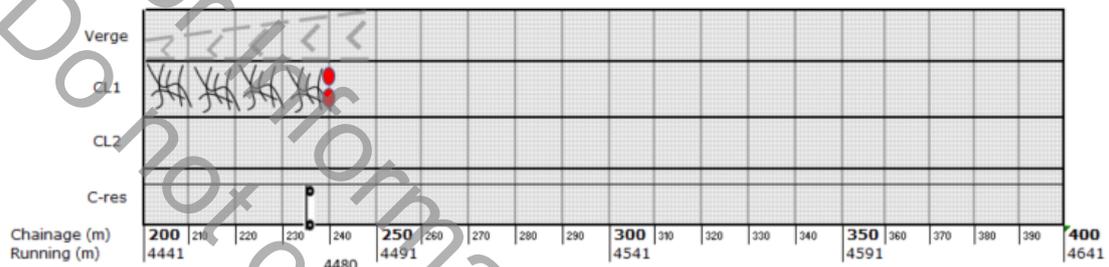
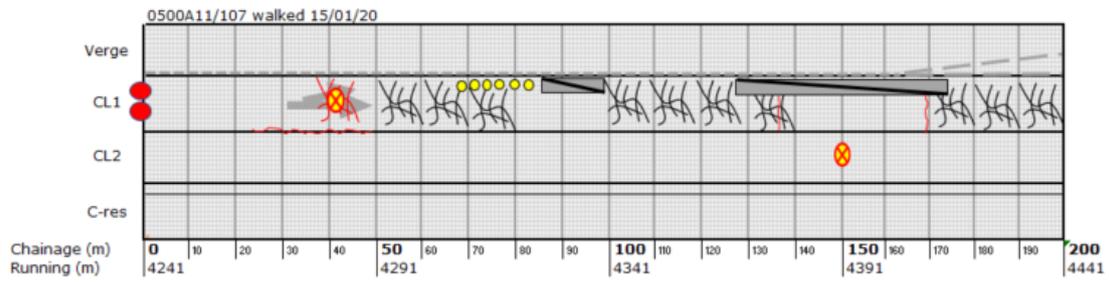


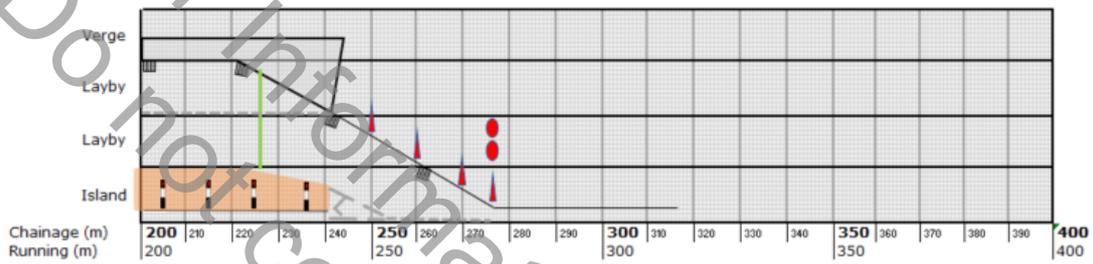
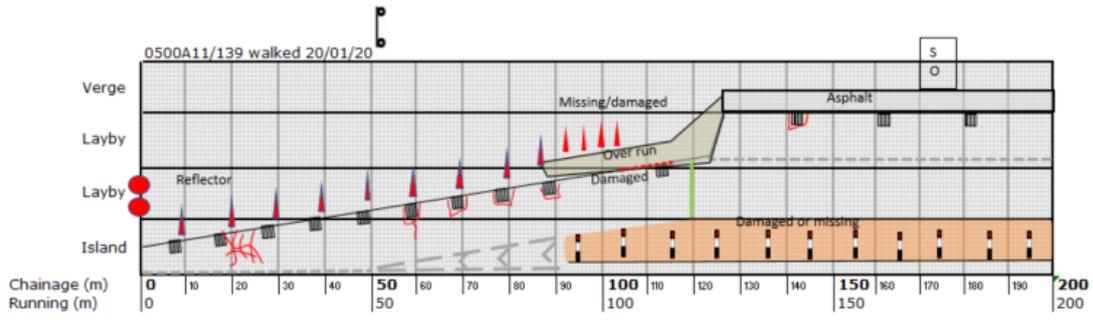




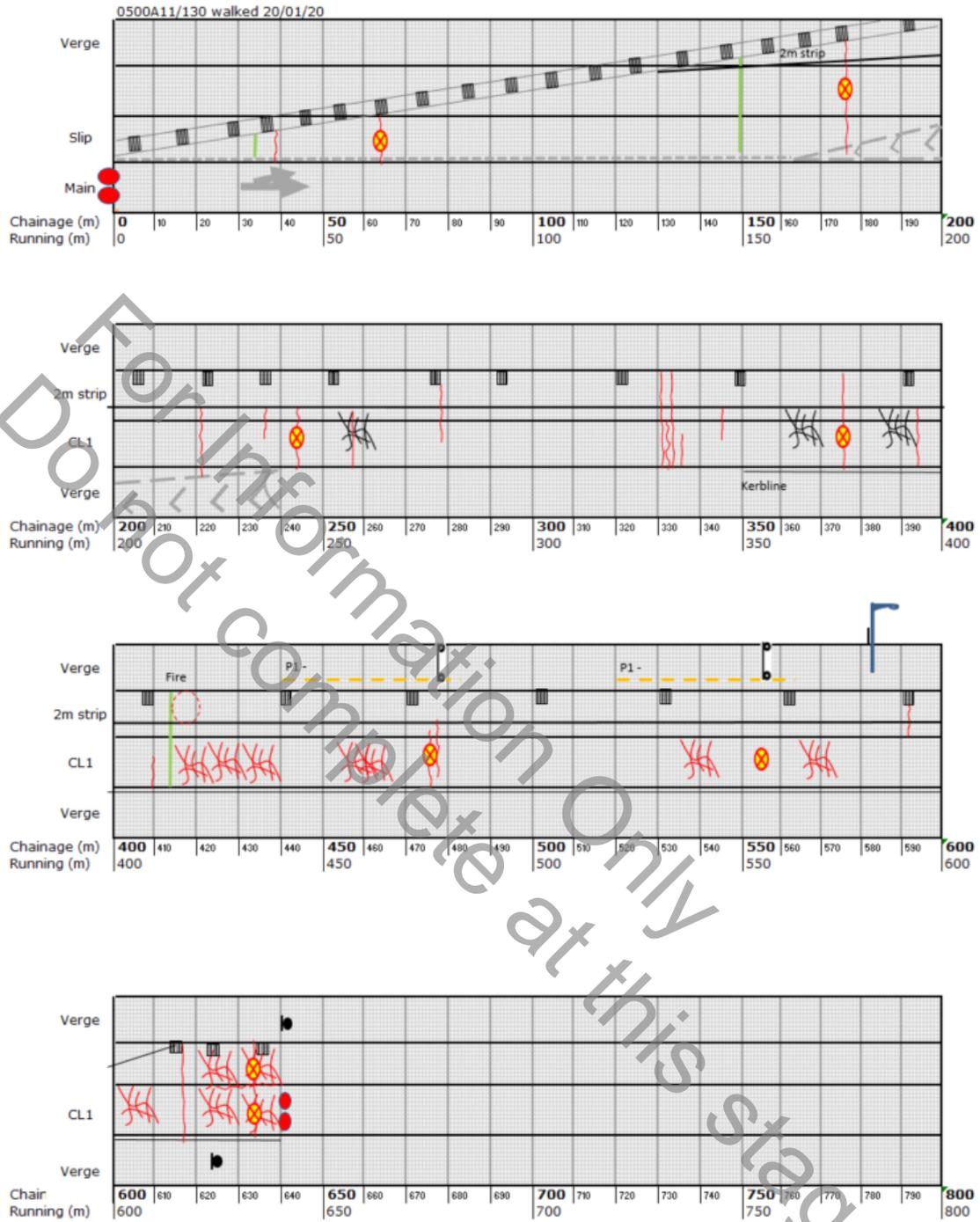
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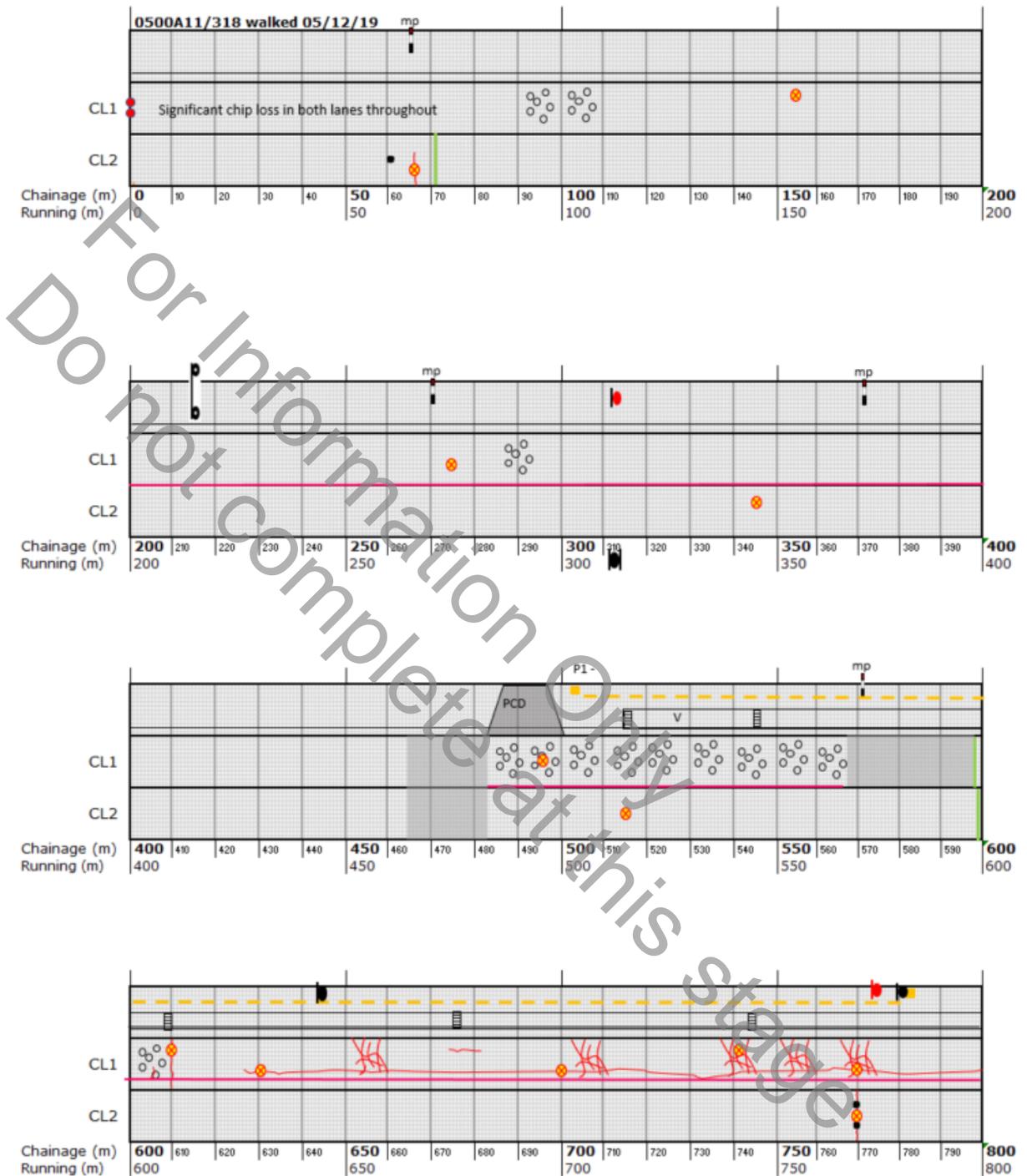


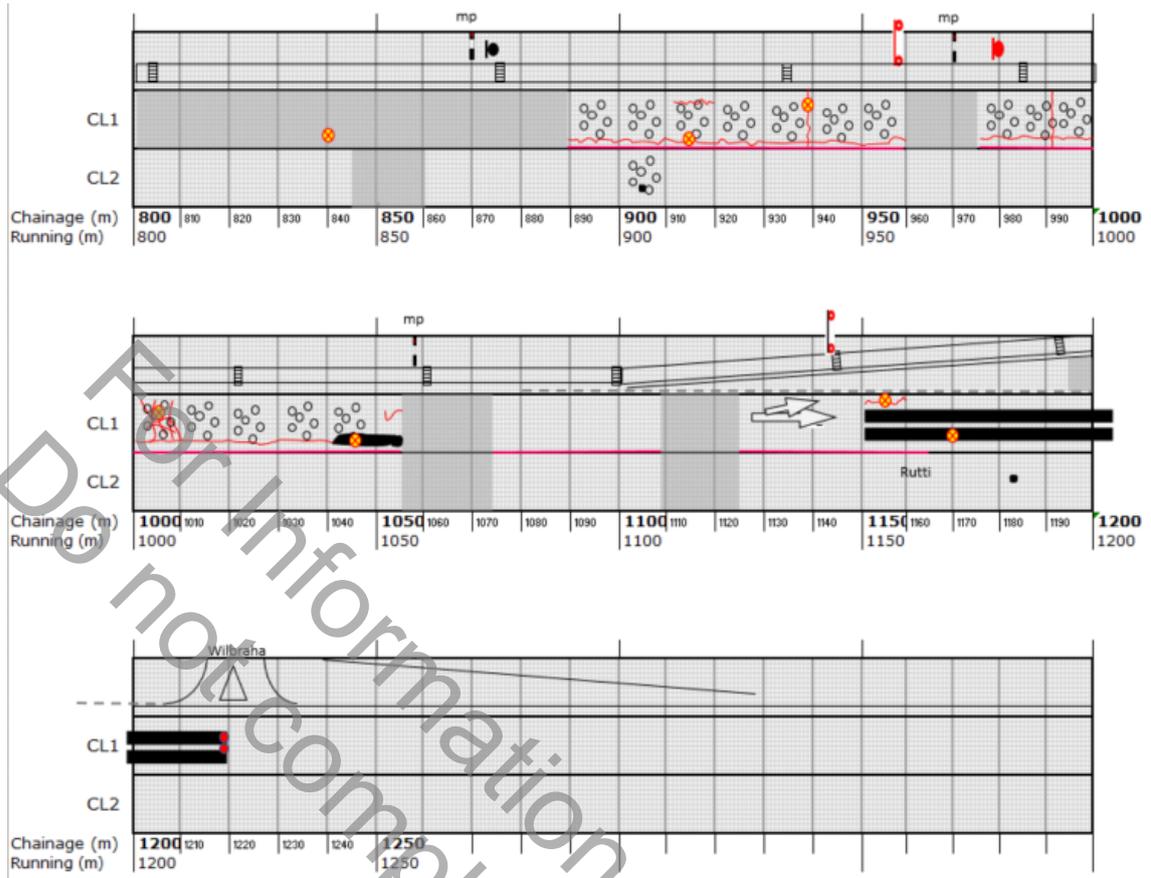


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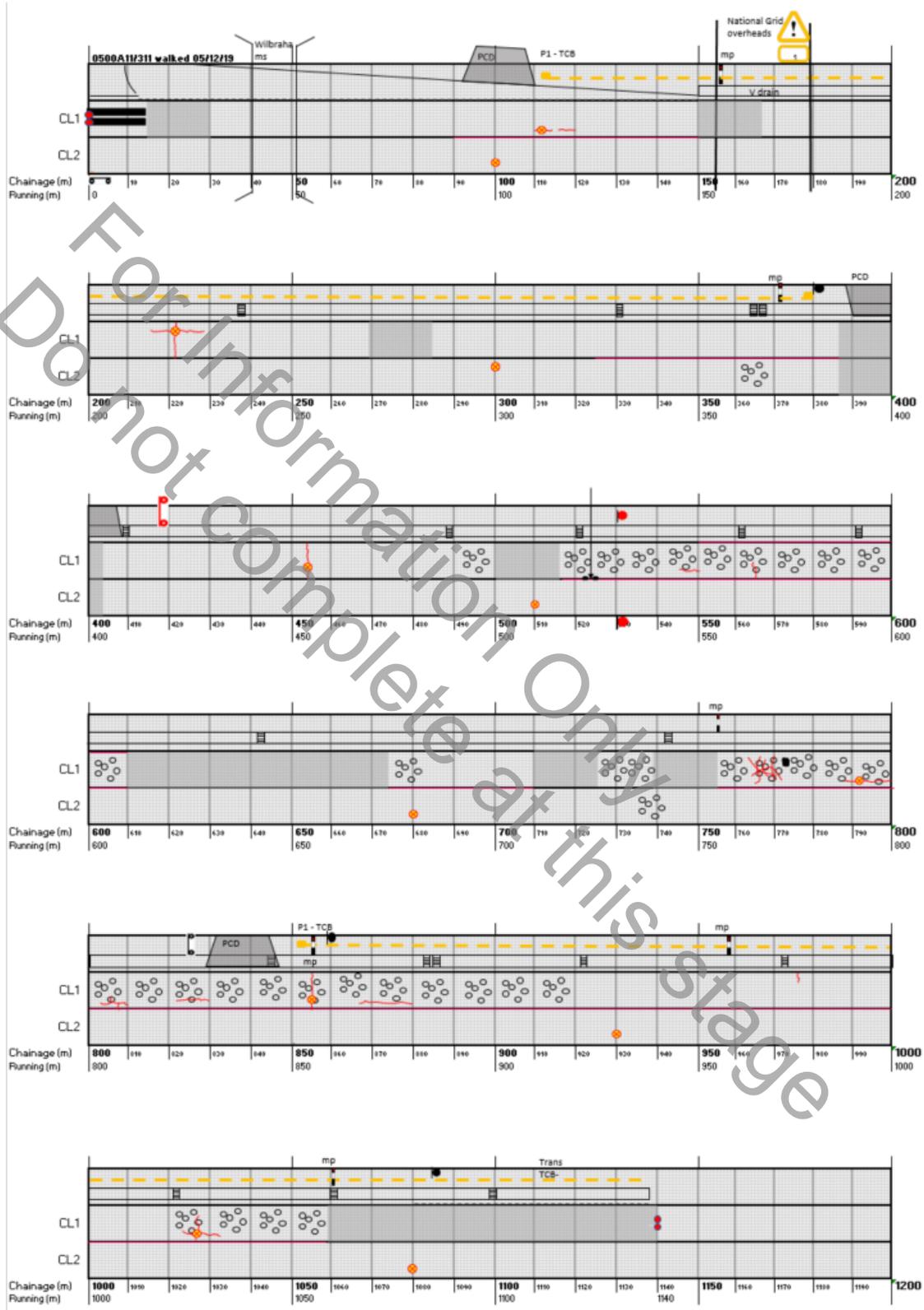


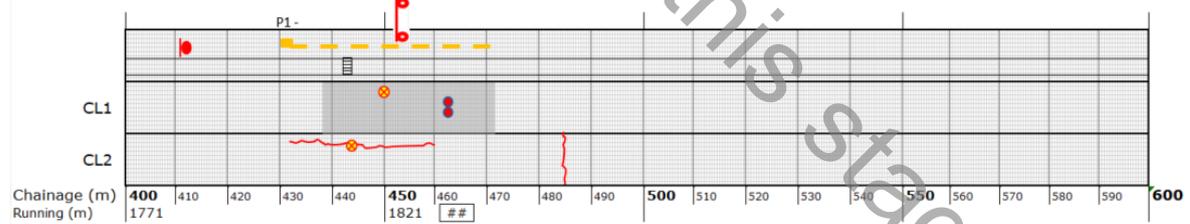
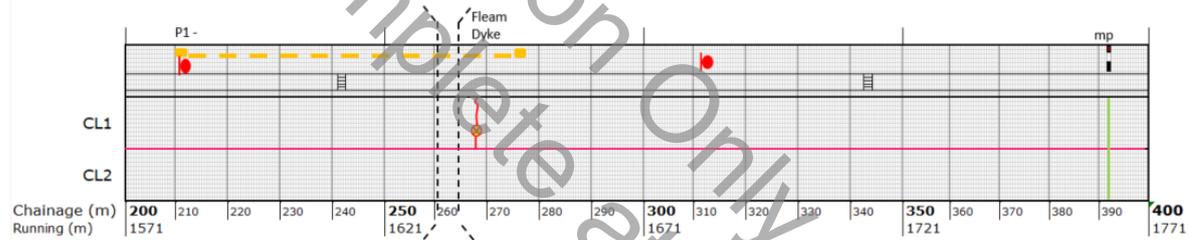
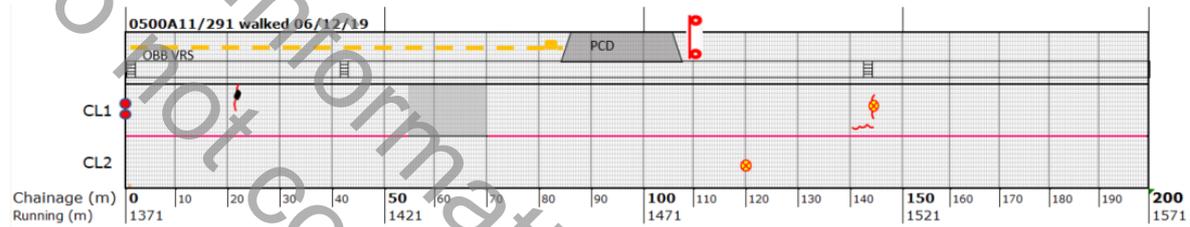
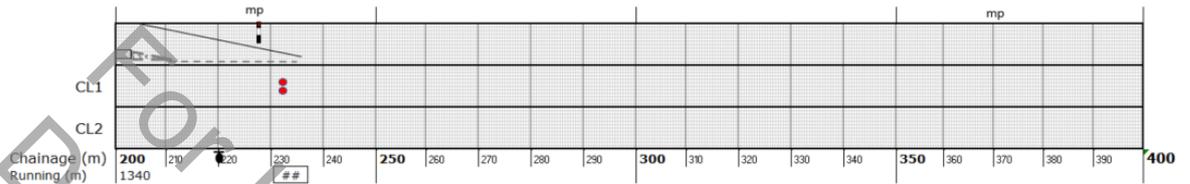
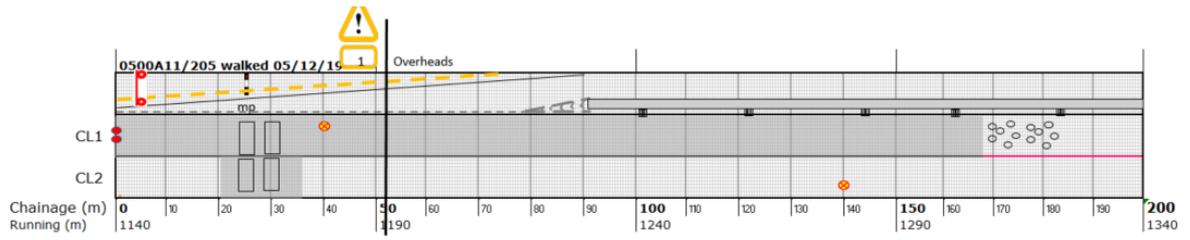
### 605746-009 RRP0741 A11 Southbound Six Mile Bottom to Great Wilbraham Resurfacing

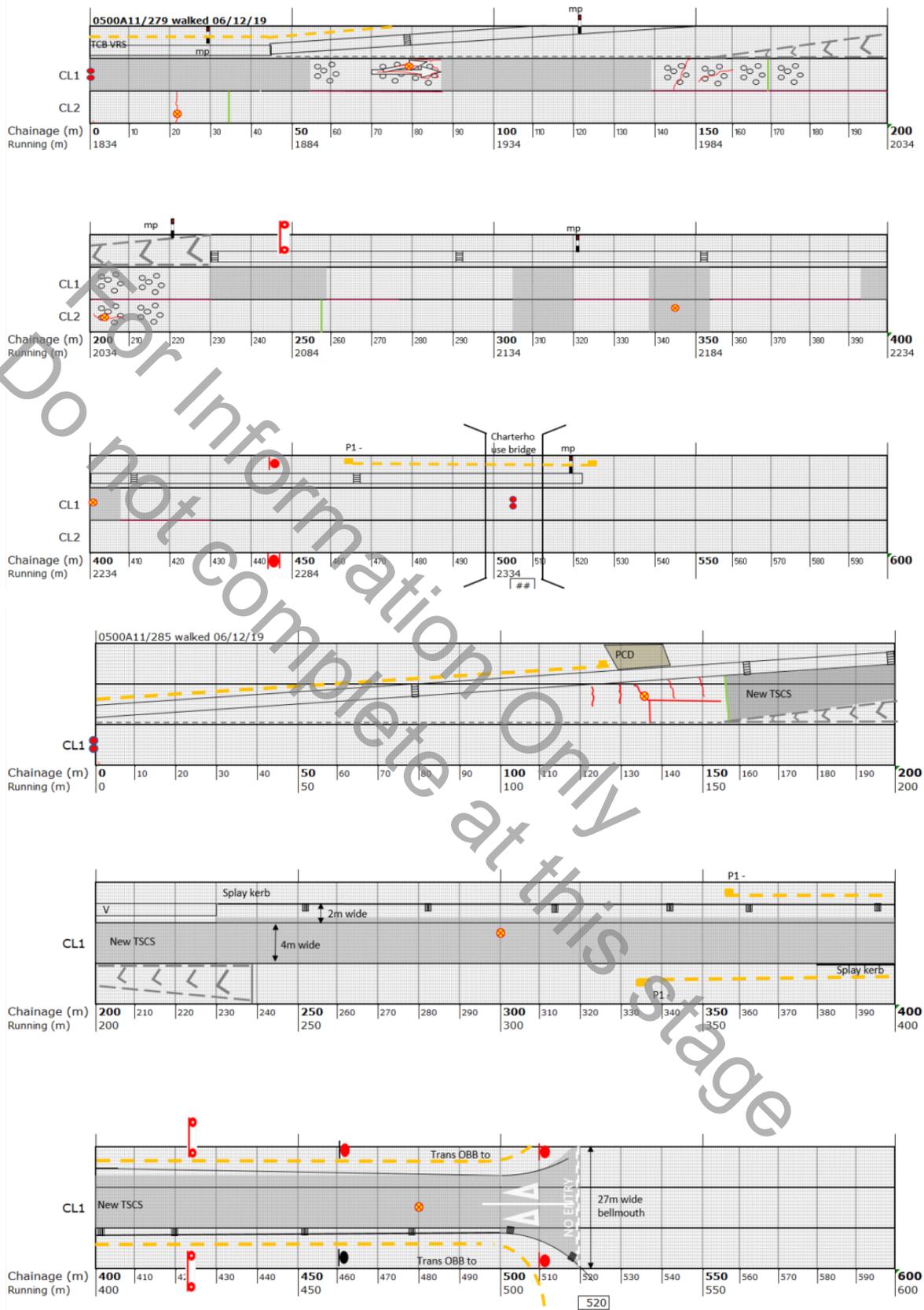




### 605746-010 RRP0752 A11 Southbound Great Wilbraham to Balsham Resurfacing







Appendix 4 – Core and DCP Survey Schedules

605746-008 RRP0744 A11 Southbound A505 Babraham to M11 J9a Resurfacing

HAPMS Section Ref		: 0500A11/166, 160, 147, 143, 142, 136, 107, 144								
Pavement Investigations										
Survey Type	Chart Section Ref	Chainage	Cross Section	NSWT	OSWT	Centr	DCP	Other	Comments	
Cores/DCP	0500A11/166	300	CL1	✓			✓		Transverse crack	
	0500A11/166	352	CL2		✓				Transverse crack	
	0500A11/166	484	CL1	✓			✓		Failed patch	
	0500A11/166	565	CL2		✓				Longitudinal crack	
	0500A11/160	20	CL1			✓			Construction core	
	0500A11/160	40	CL2			✓			Construction core	
	0500A11/160	280	CL1						Area cracking	
	0500A11/160	320	CL2		✓		✓		Transverse crack	
	0500A11/160	435	CL1	✓					Transverse crack	
	0500A11/160	530	CL2		✓				Construction core	
	0500A11/160	655	CL1			✓		✓	Area cracking	
	0500A11/160	690	CL2		✓				Transverse crack	
	0500A11/160	865	CL2		✓				Transverse crack	
	0500A11/160	965	CL1			✓			Area cracking	
	0500A11/160	1039	CL1			✓			Transverse crack	
	0500A11/160	1125	CL2				✓		Construction core	
	0500A11/160	1235	CL1			✓			Area cracking	
	0500A11/160	1340	CL2			✓			Construction core	
	0500A11/160	1425	CL1			✓			Area cracking	
	0500A11/160	1593	CL2			✓			Transverse crack	
	0500A11/160	1650	CL1			✓			Area cracking	
	0500A11/160	1710	CL2			✓		✓	Transverse crack	
	0500A11/147	10	CL1		✓				Construction core	
	0500A11/147	10	CL2		✓				Construction core	
	0500A11/143	60	CL1				✓		Construction core	
	0500A11/143	80	CL2				✓		Construction core	
	0500A11/143	290	CL1				✓		Fire damage	
	0500A11/143	290	CL2				✓		Construction core	
	0500A11/143	450	CL1				✓		Longitudinal crack	
	0500A11/143	540	CL2		✓				Construction core	
	0500A11/143	620	CL1		✓				Longitudinal crack	
	0500A11/143	680	CL2		✓				Longitudinal crack	
	0500A11/143	848	CL1				✓		Failed patch	
	0500A11/143	950	CL2				✓		Construction core	
	0500A11/143	1054	CL1				✓		Transverse crack	
	0500A11/143	1180	CL2				✓		Transverse crack	
	0500A11/143	1277	CL1				✓		Transverse crack	
	0500A11/143	1280	CL2				✓		Construction core	
	0500A11/142	100	CL1				✓		Construction core	
	0500A11/142	190	CL2				✓		Construction core	
	0500A11/136	40	CL1				✓		Construction core	
	0500A11/136	130	CL2				✓		Construction core	
	0500A11/136	290	CL1				✓		Transverse crack	
	0500A11/136	320	CL2				✓		Construction core	
0500A11/136	435	CL1				✓		Area cracking		
0500A11/136	495	CL2				✓		Transverse crack		
0500A11/107	40	CL1				✓		Area cracking		
0500A11/107	150	CL2				✓		Construction core		
0500A11/144	5	CL1				✓		Transverse crack		
0500A11/144	155	CL1				✓		Fretting		
0500A11/144	309	CL1				✓		Transverse crack		
0500A11/144	450	CL1				✓		Construction core		
0500A11/130	64	CL1				✓		Transverse crack		
0500A11/130	176	CL1				✓		Transverse crack		
0500A11/130	244	CL1				✓		Transverse crack		
0500A11/130	375	CL1				✓		Transverse crack		
0500A11/130	475	CL1				✓		Transverse crack		
0500A11/130	555	CL1				✓		Construction core		
0500A11/130	634	CL1				✓		Transverse crack		
0500A11/130	634	CL2				✓		Transverse crack		

**605746-009 RRP0741 A11 Southbound Six Mile Bottom to Great Wilbraham Resurfacing**

HAPMS Section Ref : 0500A11/318

Pavement Investigations											
Survey Type	Chart Section Ref	Start Ch	End Ch	CL1	CL2	NSWT	OSWT	Centre	DCP	Other	Comments
Cores/DCP	0500A11/318	66	-								Transverse crack
	0500A11/318	155	-	✓	✓	✓	✓		✓		Construction Core
	0500A11/318	275	-	✓	✓	✓	✓				Construction Core
	0500A11/318	345	-	✓	✓	✓	✓				Construction Core
	0500A11/318	495	-	✓	✓	✓	✓	✓			Construction Core
	0500A11/318	515	-	✓	✓	✓	✓	✓			Construction Core
	0500A11/318	610	-	✓	✓	✓	✓				Transverse crack
	0500A11/318	630	-	✓	✓	✓	✓		✓		Longitudinal crack
	0500A11/318	700	-	✓	✓	✓	✓				Longitudinal crack
	0500A11/318	740	-	✓	✓	✓	✓				Cracking
	0500A11/318	770	-	✓	✓	✓	✓				Longitudinal crack
	0500A11/318	770	-	✓	✓	✓	✓	✓			Transverse crack
	0500A11/318	840	-	✓	✓	✓	✓				Construction Core (possible crack under patch)
	0500A11/318	915	-	✓	✓	✓	✓		✓		Longitudinal crack
	0500A11/318	938	-	✓	✓	✓	✓				Transverse crack
	0500A11/318	1005	-	✓	✓	✓	✓				Cracking
0500A11/318	1045	-	✓	✓	✓	✓				Longitudinal crack	
0500A11/318	1155	-	✓	✓	✓	✓				Longitudinal crack	
0500A11/318	1170	-	✓	✓	✓	✓		✓		Construction core	

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**605746-010 RRP0752 A11 Southbound Great Wilbraham to Balsham Resurfacing**

HAPMS Section Ref : 0500A11/205-297 (Lay-By)-291-279-285 (Slip off)											
Pavement Investigations :											
Survey Type	Chart Section Ref	Start Ch	End Ch	CL1	CL2	NSWT	OSWT	Centre	DCP	Other	Comments
Cores/DCP	0500A11/311	100	-		✓		✓				Construction core
	0500A11/311	112	-	✓				✓			Longitudinal crack
	0500A11/311	222	-	✓					✓		Crossing cracks
	0500A11/311	300	-		✓						Construction core
	0500A11/311	454	-	✓							Transverse crack
	0500A11/311	510	-		✓					✓	Construction core
	0500A11/311	680	-		✓						Longitudinal crack
	0500A11/311	793	-	✓							Longitudinal crack
	0500A11/311	855	-	✓							Transverse crack
	0500A11/311	930	-		✓					✓	Construction core
	0500A11/311	1026	-	✓						✓	Longitudinal crack
	0500A11/311	1080	-		✓						Construction core
	0500A11/205	40	-	✓							Construction core
	0500A11/205	140	-		✓						Construction core
	0500A11/291	120	-		✓						Construction core
	0500A11/291	145	-	✓					✓		Transverse crack
	0500A11/291	267	-	✓							Transverse crack
	0500A11/291	445	-	✓							Construction core
	0500A11/281	450	-	✓							Longitudinal crack
	0500A11/275	25	-	✓							Transverse crack
	0500A11/275	75	-	✓							Longitudinal crack
	0500A11/275	205	-		✓				✓		Longitudinal crack
	0500A11/275	345	-		✓						Construction core
	0500A11/275	400	-		✓				✓		Construction core
	0500A11/285	135	-	✓							Diagonal crack
	0500A11/285	300	-	✓							Construction core
0500A11/285	480	-	✓					✓		Construction core	

Do For Information Only  
complete at this stage