Barnsley Dilapidation Survey

VCS Report

Report for: Brampton House
19 Tenter Road
Moulton Park
Northampton
NN3 6PZ

Prepared by: PTS Limited
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Project: Barnsley Dilapidation Survey

Job No: PTS20335-02

	Prepared by	Reviewed by	Approved by
Date	16/10/2020	16/10/2020	16/10/2020
Signature			

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i. Executive Summary

This report describes the Visual Condition Survey of the Barnsley Dilapidation Survey. This can be identified on the Site plan within Appendix A. The survey was undertaken by a PTS team on the 9th October 2020 in daylight working hours by walking down the adjacent footpaths.

The report details the evaluation of the condition of the existing surface at each site in accordance with CS 229.

The pavement surface is Surface Dressing and Hot Rolled Asphalt (HRA). The surface condition for the A6135 Roundabout is good as there are no defects. The surface condition for Tankersley Lane is poor, particularly on the surface dressed section with major cracking throughout, areas of major surface defectiveness, major crazing as well as numerous patch failures.

1. Introduction

Pavement Testing Services Limited were instructed by Winvic Construction to undertake a visual condition survey on the Barnsley Dilapidation Survey.

The report details the evaluation of the pavement surface condition and defected areas.

1.1 Site

The Barnsley Dilapidation Survey consists of four surveys:

- A6135 Roundabout (201m)
- Tankersley Lane – Single Carriageway (429m)

1.2 Investigation Details

The survey was carried out by a team that walked down the adjacent footpaths in daytime working hours, recording the visual condition of all lanes of the carriageway. The pavement condition was then typed up on to site sheets (See Appendix B). A schematic of the defects has been produced (see Appendix C) and photographs of the defects were taken as evidence and have been presented in Appendix D.

2. Discussion

2.1 Overview

In October 2020, a VCS survey was carried out on Barnsley Dilapidation Survey. It was undertaken in accordance with CS 229.

2.2 Observations of A6135 Roundabout

Observations during the VCS survey show that the surface of the pavement is in good condition as there are no defects.

2.3 Observations of Tankersley Lane

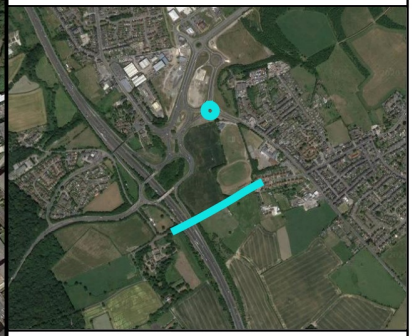
Observations during the VCS survey show that the surface of the pavement is in poor condition. The Surface Dressing has areas of major surface defectiveness and major crazing, this is accompanied by major cracking and patch failures. The Hot Rolled Asphalt is in good condition; however, it has a small area of major crazing.

APPENDIX A

Site Location



PLOT 1 OF 1



Legend

VCS Survey

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T: 01772 792899 E: info@ptsinternational.co.uk
ptsinternational.co.uk

CLIENT:

Brampton House
19 Tenter Road
Moulton Park
Northampton
NN3 6PZ

PROJECT:

Barnsley Dilapidation Survey

TITLE:

VCS Survey

SCALE:	DRAWN:	APPROVED:
NTS	LM	MN
PROJECT NO:	CHECKED:	DATE:
PTS20335-02	SR	OCT-20
DRAWING No:		REV:
PTS20335-02_DR01		1

APPENDIX B

Site Sheets

VISUAL CONDITION SURVEY

Project				Direction	Job No.		Date	
Barnsley Dilapidation Survey				CW	PTS20335-02		09/10/20	
Client		**Contractor**		**Reference Section**			**Sheet No.**	
Winvic Construction		PTS		A6135 Roundabout			1 of 3	
Surveyor		**Weather**		**GPS References**			**Length Surveyed**	
MB		Dry		Start	E: 435139	N: 400410	201m	
				End	E: 435139	N: 400410		

LANE	CHAINAGE (m)		LENGTH (m)	WIDTH (m)	AREA (m^2)	FEATURE / DEFECT	SEVERITY	LOCATION	PHOTO REF
	START	END							
CL1	0	201	201	3.65	733.65	HRA		F	1
CL2	0	201	201	3.65	733.65	HRA		F	
CL1	72		0.5	3.65	1.83	J		F	
CL1	95	115	20	3.65	73.00	PA		F	
CL2	105		0.5	3.65	1.83	J		F	
CL1	130	150	20	3.65	73.00	PA		F	
	End of survey @ Ch. 201m								

LANE	WIDTH(m)	LENGTH(m)	AREA(m^2)	CR(1)	0.00	SD(1)	0.00	MP	0.00
HS				CR(2)	0.00	SD(2)	0.00	POT	0.00
CL1	3.65	201.00	733.65	CZ(1)	0.00	TC(1)	0.00	PF	0.00
CL2	3.65	201.00	733.65	CZ(2)	0.00	TC(2)	0.00	TF	0.00
CL3				FT(1)	0.00				
Total	7.30	402.00	1467.30	FT(2)	0.00				

SURFACE TYPE

TSSC - Thin surfacing surface course, **HRA -** Hot Rolled Asphalt, **HFSC -** High Friction surface course

FEATURES

PJ - Plug Joints**, MJ** - Mechanical Joints**, L** - Loops**, J** - Construction Joints**, N** - Nodes**, I** – Ironwork**, Mp** – Marker Posts

FLEXIBLE DEFECTS

CR - Cracking, **TC** - Transverse Crack, **CZ** - Crazing, **FT** – Fatting, **PF** - Patch Failure, **PA** - Patch, **POT** - Pot Hole,

TF - Trench Failure, **SD** - Surface Defectiveness, **MP** - Mud Pumping, **Dep -** Depression

LJ (O) – Open Joint **N** = Narrow **M** = Moderate **W** = Wide

LOCATION

L - Left WT, **R** - Right WT, **B** - Both WT's, **N** - Neither, **F** - Full Width.

SEVERITY

Severity **1 -** Major**, 2 -** Minor

VISUAL CONDITION SURVEY

Project			Direction	Job No.		Date
Barnsley Dilapidation Survey			WB	PTS20335-02		09/10/20
Client	**Contractor**		**Reference Section**			**Sheet No.**
Winvic Construction	PTS		Tankersley Lane			2 of 3
Surveyor	**Weather**		**GPS References**			**Length Surveyed**
MB	Dry		Start	E: 435352	N: 400108	429m
			End	E: 434979	N: 399894	

LANE	CHAINAGE (m)		LENGTH (m)	WIDTH (m)	AREA (m^2)	FEATURE / DEFECT	SEVERITY	LOCATION	PHOTO REF
	START	END							
CL1&CR1	0	318	318	7.30	2321.40	Surface Dressing		F	2
CR1	1	3	2	1.00	2.00	PF		R	3
CL1	12	22	10	0.50	5.00	CR(1)	1	L	4
CR1	14	15	1	0.50	0.50	CR(1)	1	N	
CL1&CR1	17		0.5	7.30	3.65	Trench		F	
CR1	20	22	2	0.50	1.00	CR(1)	1	R	5
CR1	22	60	38	1.50	57.00	PA		R	
CL1	26	46	20	1.00	20.00	PF	1	L	6
CL1	26	46	20	1.00	20.00	SD(1)	1	L	6
CL1	53	95	42	1.00	42.00	PF	1	L	7
CL1	53	95	42	1.00	42.00	SD(1)	1	L	7
CR1	60	153	93	0.50	46.50	CR(1)	1	R	8 & 9
CL1	100	103	3	0.50	1.50	CR(1)	1	L	10
CL1	101	102	1	0.50	0.50	CR(1)	1	L	10
CL1	136	139	3	0.50	1.50	CR(1)	1	L	11
CR1	152	153	1	1.00	1.00	PF		N	
CL1&CR1	153		0.5	7.30	3.65	TC(1)	1	F	12
CR1	153	202	49	1.00	49.00	CZ(1)	1	R	13 & 16
CL1	156		0.5	1.00	0.50	TC(1)	1	R	14
CR1	156		0.5	1.00	0.50	TC(1)	1	L	14
CR1	167		0.5	0.50	0.25	I(G)		R	
CL1/CR1	167	256	89	0.50	44.50	CR(1)	1		18
CL1&CR1	177		0.5	3.65	1.83	TC(1)	1	F	15
CR1	181		0.5	3.65	1.83	TC(1)	1	F	
CR1	183		0.5	3.65	1.83	TC(1)	1	F	
CL1	188		0.5	0.50	0.25	I(G)		L	

LANE	WIDTH(m)	LENGTH(m)	AREA(m^2)	CR(1)	101.00	SD(1)	62.00	MP	0.00
CL1	3.00	197.00	591.00	CR(2)	0.00	SD(2)	0.00	POT	0.00
CR1	3.65	197.00	719.05	CZ(1)	49.00	TC(1)	10.13	PF	65.00
				CZ(2)	0.00	TC(2)	0.00	TF	0.00
				FT(1)	0.00				
Total	6.65	394.00	1310.05	FT(2)	0.00				

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FEATURES

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FLEXIBLE DEFECTS

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LOCATION

L - Left WT, **R** - Right WT, **B** - Both WT's, **N** - Neither, **F** - Full Width.

SEVERITY

Severity **1 -** Major**, 2 -** Minor

VISUAL CONDITION SURVEY

Project			Direction	Job No.		Date
Barnsley Dilapidation Survey			WB	PTS20335-02		09/10/20
Client	**Contractor**		**Reference Section**			**Sheet No.**
Winvic Construction	PTS		Tankersley Lane			3 of 3
Surveyor	**Weather**		**GPS References**			**Length Surveyed**
MB	Dry		Start	E: 435352	N: 400108	429m
			End	E: 434979	N: 399894	

LANE	CHAINAGE (m)		LENGTH (m)	WIDTH (m)	AREA (m^2)	FEATURE / DEFECT	SEVERITY	LOCATION	PHOTO REF
	START	END							
CL1	192	195	3	0.50	1.50	CR(1)	1	L	17
CR1	197		0.5	0.50	0.25	I(G)		R	
CL1&CR1	203		0.5	7.30	3.65	Trench		F	
CR1	226		0.5	0.50	0.25	I(G)		R	
CR1	240	241	1	1.00	1.00	PF		R	19
CL1&CR1	256		1	1.00	1.00	I(G)		L+R	
CL1	256	258	2	0.50	1.00	CR(1)	1	L	20
CL1/CR1	272	318	46	0.50	23.00	CR(1)	1		21
CL1&CR1	286		1	1.00	1.00	I(G)		L+R	
CR1	288	292	4	3.65	14.60	PF		F	22
CL1	299	305	6	0.50	3.00	CZ(1)	1	L	23
CR1	313		0.5	0.50	0.25	I(G)		R	
CL1	317		0.5	0.50	0.25	I(G)		L	
CL1&CR1	318		0.5	7.30	3.65	J		F	
CL1&CR1	318	429	111	7.30	810.30	HRA		F	24
CR1	319	321	2	1.00	2.00	CZ(1)	1	R	25
CL1&CR1	324		0.5	7.30	3.65	PJ		F	
CL1&CR1	335		0.5	7.30	3.65	PJ		F	
CL1&CR1	354		0.5	7.30	3.65	PJ		F	
CL1&CR1	374		0.5	7.30	3.65	PJ		F	
CL1&CR1	394		0.5	7.30	3.65	PJ		F	
CL1&CR1	413		0.5	7.30	3.65	PJ		F	
CL1&CR1	425		0.5	7.30	3.65	PJ		F	
CL1&CR1	429		0.5	7.30	3.65	J		F	
	End of survey @ Ch. 429m								26

LANE	WIDTH(m)	LENGTH(m)	AREA(m^2)	CR(1)	25.50	SD(1)	0.00	MP	0.00
CL1	3.00	232.00	696.00	CR(2)	0.00	SD(2)	0.00	POT	0.00
CR1	3.65	232.00	846.80	CZ(1)	5.00	TC(1)	0.00	PF	15.60
				CZ(2)	0.00	TC(2)	0.00	TF	0.00
				FT(1)	0.00				
Total	6.65	464.00	1542.80	FT(2)	0.00				

SURFACE TYPE

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FEATURES

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FLEXIBLE DEFECTS

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TF - Trench Failure, **SD** - Surface Defectiveness, **MP** - Mud Pumping, **Dep -** Depression

LJ (O) – Open Joint **N** = Narrow **M** = Moderate **W** = Wide

LOCATION

L - Left WT, **R** - Right WT, **B** - Both WT's, **N** - Neither, **F** - Full Width.

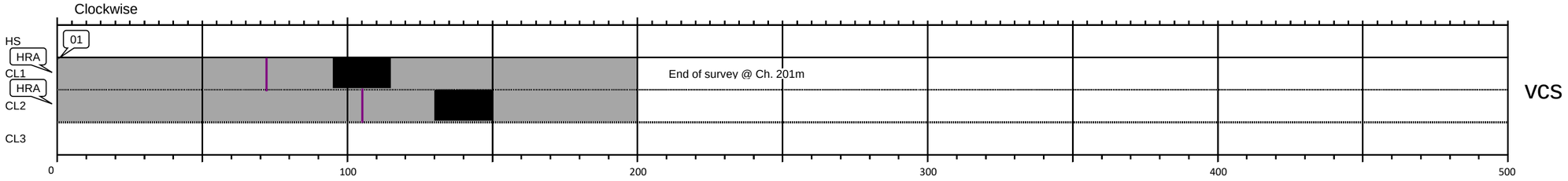
SEVERITY

Severity **1 -** Major**, 2 -** Minor

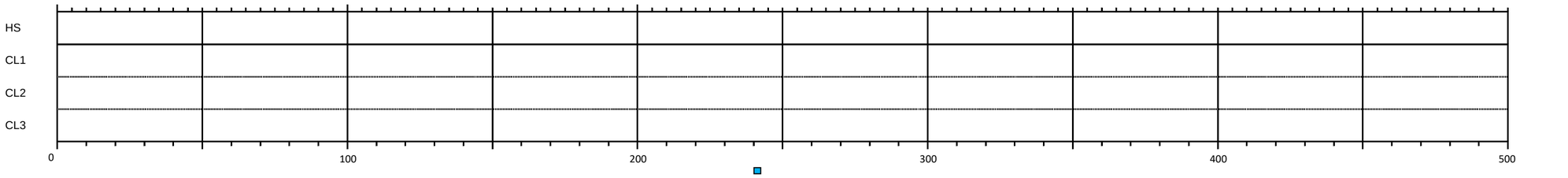
APPENDIX C

Schematics

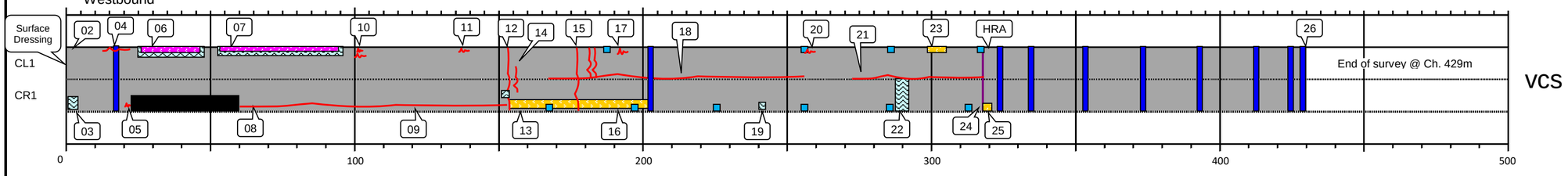
A6135 Roundabout
Clockwise



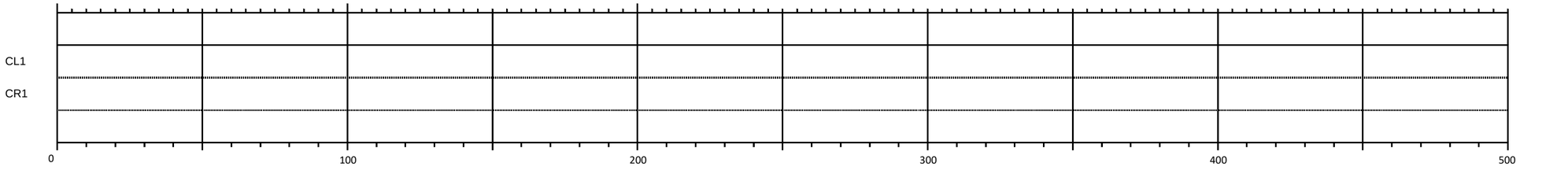
VCS



Tankersley Lane
Westbound



VCS



Key

Surveyed Area	TSSC Road Surface Type	01 Photo Ref. No.	Surface Defectiveness (Minor)	Surface Defectiveness (Major)	Ironwork	Nodes
Transverse Crack (Minor)	Transverse Crack (Major)	Failed Patch	Crazing (Minor)	Crazing (Major)	Trench Failure	Pothole
Cracking (Major)	Cracking (Minor)	Patch	**Open Longitudinal Joint**	Narrow	Moderate	Wide		Fatting (Minor)
Plug Joint	Construction Joint	Mechanical Joint	Mud Pumping	Core Location	Loops	Fatting (Major)

CLIENT
Winvic Construcion

COMMENTS
Not to scale - for illustrative purposes only

PROJECT
PTS20335-02 Barnsley Dilapidation
Visual Condition Survey

Defect Plan
Sheet 1 of 1

Drawing No.

DRAWN :	LM	Oct'20
DESIGN :	LM	Oct'20
CHECKED :	SR	Oct'20

APPENDIX D

Photographs

Barnsley Dilapidation Survey

Photo Ref :	1	Section :	A6135 Roundabout
Chainage :	0m	Feature / Defect :	Start of survey



Photo Ref :	2	Section :	Tankersley Lane
Chainage :	0m	Feature / Defect :	Start of survey



Photo Ref :	3	Section :	Tankersley Lane
Chainage :	1m	Feature / Defect :	Patch Failure



Photo Ref :	4	Section :	Tankersley Lane
Chainage :	12m	Feature / Defect :	Major Cracking



Photo Ref :	5	Section :	Tankersley Lane
Chainage :	20m	Feature / Defect :	Major Cracking



Photo Ref :	6	Section :	Tankersley Lane
Chainage :	26m	Feature / Defect :	Patch Failure / Major Surface Defectiveness



Photo Ref :	7	Section :	Tankersley Lane
Chainage :	53m	Feature / Defect :	Patch Failure / Major Surface Defectiveness



Photo Ref :	8	Section :	Tankersley Lane
Chainage :	60m	Feature / Defect :	Major Cracking



Photo Ref :	9	Section :	Tankersley Lane
Chainage :	120m	Feature / Defect :	Major Cracking



Photo Ref :	10	Section :	Tankersley Lane
Chainage :	101m	Feature / Defect :	Major Cracking



Photo Ref :	11	Section :	Tankersley Lane
Chainage :	136m	Feature / Defect :	Major Cracking



Photo Ref :	12	Section :	Tankersley Lane
Chainage :	153m	Feature / Defect :	Major Transverse Crack



Photo Ref :	13	Section :	Tankersley Lane
Chainage :	153m	Feature / Defect :	Major Crazing



Photo Ref :	14	Section :	Tankersley Lane
Chainage :	156m	Feature / Defect :	Major Transverse Crack



Photo Ref :	15	Section :	Tankersley Lane
Chainage :	177m	Feature / Defect :	Major Transverse Crack



Photo Ref :	16	Section :	Tankersley Lane
Chainage :	190m	Feature / Defect :	Major Crazing



Photo Ref :	17	Section :	Tankersley Lane
Chainage :	192m	Feature / Defect :	Major Cracking



Photo Ref :	18	Section :	Tankersley Lane
Chainage :	212m	Feature / Defect :	Major Cracking



Photo Ref :	19	Section :	Tankersley Lane
Chainage :	240m	Feature / Defect :	Patch Failure



Photo Ref :	20	Section :	Tankersley Lane
Chainage :	256m	Feature / Defect :	Major Cracking



Photo Ref :	21	Section :	Tankersley Lane
Chainage :	272m	Feature / Defect :	Major Cracking



Photo Ref :	22	Section :	Tankersley Lane
Chainage :	288m	Feature / Defect :	Patch Failure



Photo Ref :	23	Section :	Tankersley Lane
Chainage :	299m	Feature / Defect :	Major Crazing



Photo Ref :	24	Section :	Tankersley Lane
Chainage :	318m	Feature / Defect :	HRA



Photo Ref :	25	Section :	Tankersley Lane
Chainage :	319m	Feature / Defect :	Major Crazing



Photo Ref :	26	Section :	Tankersley Lane
Chainage :	429m	Feature / Defect :	End of survey

