PARAGON HIGHWAYS



New Road, Pilley, Barnsley

Initial Condition Survey

Feb 2017

Project 1156B

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Quality Management

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Checked by	PAH			

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1 INTRODUCTION

1.1 Introduction

1.1.1 Paragon Highway Consultants have been appointed to carry out an initial visual condition survey along New Road prior to any works commencing on site in relation to the proposed development to construct 56 new dwellings on land at off New Road, Pilley, Barnsley.

1.1.2 The requirement to provide a condition survey is identified in Planning Condition 13 of the Planning Approval No. 2016/0952, which states:

"Prior to any works commencing on-site, a condition survey (including structural integrity) of the highways to be used by construction traffic shall be carried out in association with the Local Planning Authority. The methodology of the survey shall be approved in writing by the Local Planning Authority and shall assess the existing state of the highway. On completion of the development a second condition survey shall be carried out and shall be submitted for written approval of the Local Planning Authority, which shall identify defects attributed to the traffic ensuing from the development. Any necessary remedial works shall be completed at the developer's expense in accordance with a scheme to be agreed in writing by the Local Planning Authority".

1.1.3 In response to this Planning Condition, Paragon Highway Consultants have been appointed to provide this initial visual condition survey report.

1.1.4 The areas of highway to be surveyed include New Road along the full site frontage and up to the Lidgett Lane junction to the east. Some 346m of public highway was surveyed to identify any current defects prior to construction traffic entering the site, using photographs, description of defects, and locations.

1.1.5 New Road between Lidgett Lane and Westwood New Road, and along Westwood New Road between New Road and the A61 was also surveyed using video camera only, which accompanies this report. The extent and methodology of the condition survey was agreed with the Barnsley Metropolitan Borough Council's Highways Officer on site. The development period begins in 2017. The length of road subject to the condition survey (and lengths subject to video camera) is shown on the plan at Appendix A.

1.2 Scope of the Survey

1.2.1 The scope of this initial survey report involves a visual inspection and record of the lengths of highway defined above. The methodology of the condition survey was agreed with the Local Highway Authority, and the Councils Highways representative (Chris Sanderson) who attended the visual highway inspection on site.

1.2.2 Following this brief introduction, Section 2 describes the highway infrastructure in more general terms. Section 3 then describes a detailed survey of the highway infrastructure. The conclusions are provided in Section 4.

2 GENERAL CONDITION

Site Description and Existing Highway Network

2.1 The site is made up of a field that benefits from planning approval (Planning Application Number 2013/1007) for a residential development of 41 new dwellings prior to obtaining planning consent for 56 dwellings (Planning Application Number 2016/0952). The site is bounded by Lidgett Lane and New Road to the north and south respectively, with residential properties located to the east and a field to the west.

2.2 New Road is an all-purpose access road providing a link between Pilley and the nearby settlement of Tankersley, and adjacent to the site New Road is around 5.5m in width with a 2m wide verge along the north side and a 1.6m wide footway along the south side. The road contains street lighting to side road standards and is subject to a 30mph speed limit. New Road is subject to light traffic volumes generally, with no apparent capacity issues at nearby junctions.

2.3 Development traffic will travel to and from the proposed access point onto New Road, and would use the route along New Road and Westwood New Road on to the A61 and on the wider network. The development traffic will be associated with clearing the site, and the construction of the proposed development.

3 DETAILED COMMENTS FROM SURVEY

3.1 The following comments have been divided into sub headings for convenience. These comments are based upon the visual inspection carried out on Tuesday 9th February 2017. The Council's Highways Officer also agreed the extent and detail required from the survey. The photographs referred to in the following paragraphs can be found in Appendix B to this report and are labelled 1 to 112 inclusive all taken along New Road between the site and Lidgett Lane. The defects schedule that relates to the photographs is also shown at Appendix B. The locations of the photographs are indicated on the drawing provided at Appendix A.

Carriageway Surface and Structure

3.2 It was observed during the site survey that the carriageway on New Road was generally in poor condition, due to a combination of excessive wear especially along the crown line/ centre of the road. It was also observed that the carriageway condition at New Road/ Lidgett junction was particularly poor containing many potholes, cracking, and complete loss of surface course in places. It was also observed that there are areas along the north side of the carriageway where detritus from the site has fallen/ encroached into the carriageway channel along the site frontage.

3.3 Within the areas of carriageway surveyed it was identified that there are numerous areas of carriageway where the surface course is worn, particularly where the surface texture is worn, along the crown line of the road with apparent joint failure. These areas are shown in photographs 1 to 4, 7 to 9, 11, 12, 17 to 22, 26 to 28, 30 to 37, 39 to 45, 48, 49, 52 to 54, 60, 61, 64, 70, 71, 74, 75, 80, 83, 85, 87, 88, 91, 92, 94, 96, 99 to 105, 107, 109, 111 and 112.

3.4 There are areas of the carriageway that include surface cracking, which are identified on photographs 9, 16, 33, 42, 48, 70 (around fire hydrant), 88, 90, 104, 105, 106, 107, and 109. There are also areas of crazing as demonstrated on photographs 33, 34, 37, 39, 42 to 44, 62, 63, 88, 104, 105, 107, and 109 (major crazing). There are areas where the carriageway surface has depressed, and these are shown in photographs 48, 63 and 70. The carriageway also contains areas with potholes and loss of surface course identified on photographs 1 to 4, 8, 15, 17, 19 to 21, 35, 36, 43, 44, 54, 83, 87, 91, 92, 100, 102, 103, 109 and 112.

3.5 It was also observed that there is some loose vegetation/ detritus within the carriageway channel along the site frontage as identified on photographs 4, 5, 16, and 22.

Footways and Highway Verges

3.6 The footways along the south side of New Road generally contain reinstatements/ patch repairs, and there are some areas that contain crazing of the surface course as shown on photographs 10, 11, 14, 20, 31, 32, 38, 41, 46, 47, 51, 55 to 57, 62, 63, 65 to 69, 72, 73, 79, 81, 82, 84, 86, 89, 93, and 97. There are also some areas that contain surface cracks as demonstrated on photographs 27, 30, 31, 32, 65, 69, 72, 81 95, and 97. Photograph 41 identifies cracking/ loss of surface course around the joint line for a trench reinstatement.

3.7 The footway surface contains weeds/ moss, potentially damaging the surface course as shown on photographs 13 and 14.

Kerbing and Channel Blocks

3.8 The kerbing is generally in good condition on both sides of New Road, containing some isolated sections where the kerbs contain some minor wear. However, some kerbs contain damage as shown on photographs 11 (kerb foundation failure), 15, 24, 27, 30, 38, 50, 59, 72, 73 (kerb foundation failure), 76, 82, 84, 99 (kerb foundation failure), 108, and 109.

Public Utility Covers and Street Furniture

3.9 The public utility covers appear to be in relatively good condition, with no obvious signs of wear/ cover failure, although the BT box identified on photograph 20 appears to have dropped in level on one side within the footway.

Street Lighting, Signs & Road Markings

3.10 Some of the road markings are worn (the centre warning line along New Road in particular). Road markings are also worn at the Lidgett Lane/ New Road junction. Photographs 2, 3, 9, 21, 29, 33, 38, 40, 42, 49, 52, 75, 88, 91, 92, 94, 96, 99, 100, 109 and 110 identify the areas where road markings have been worn.

3.11 Street lighting is situated at regular intervals along the series of telegraph/ electricity poles along the south side of New Road, although there is no obvious sign of damage. Existing traffic signing also appears to be undamaged.

Trench Reinstatements

3.12 There are numerous patching repairs along the carriageway, and for the majority appear to be suitable, other than the defects identified within paragraph 3.4 above.

Road Gullies and Drainage

3.13 The majority of the road gullies along New Road appear to operate satisfactorily, however the road gully shown on photographs 6 and 77 appears to be blocked and the road gully shown in photograph 78 appears partially blocked. New Road is also subject to standing water as shown on photographs 1 and 2.

4 SUMMARY AND CONCLUSIONS

4.1 This Initial Condition Survey presents the existing situation regarding the carriageways, footways, kerbs and utility works on New Road, Pilley. It also provides additional video evidence of the condition of the road along New Road and Westwood New Road which accompanies this report.

4.2 Overall the condition of the highway infrastructure along New Road is in poor condition, as the carriageway contains loss of surface course around the crown line, and also contains potholes and areas for crazing/ cracking, with the junction with Lidgett Lane being particularly poor. The footway contains areas of crazing and some lengths of kerbs are also damaged. From the survey it was determined that the majority of road gullies appear to drain satisfactorily, although there are a number that are fully or partially blocked. There was also an area of the carriageway along the far west side of the site frontage that contains standing water. Road markings are also worn along the centre line of New Road and the give way markings at the Lidgett Lane junction.

4.3 Given the poor condition of parts of the carriageway on New Road it is recommended that the Council carry out suitable repairs in this area, including measures to refresh line markings.

Leigh J Ogden

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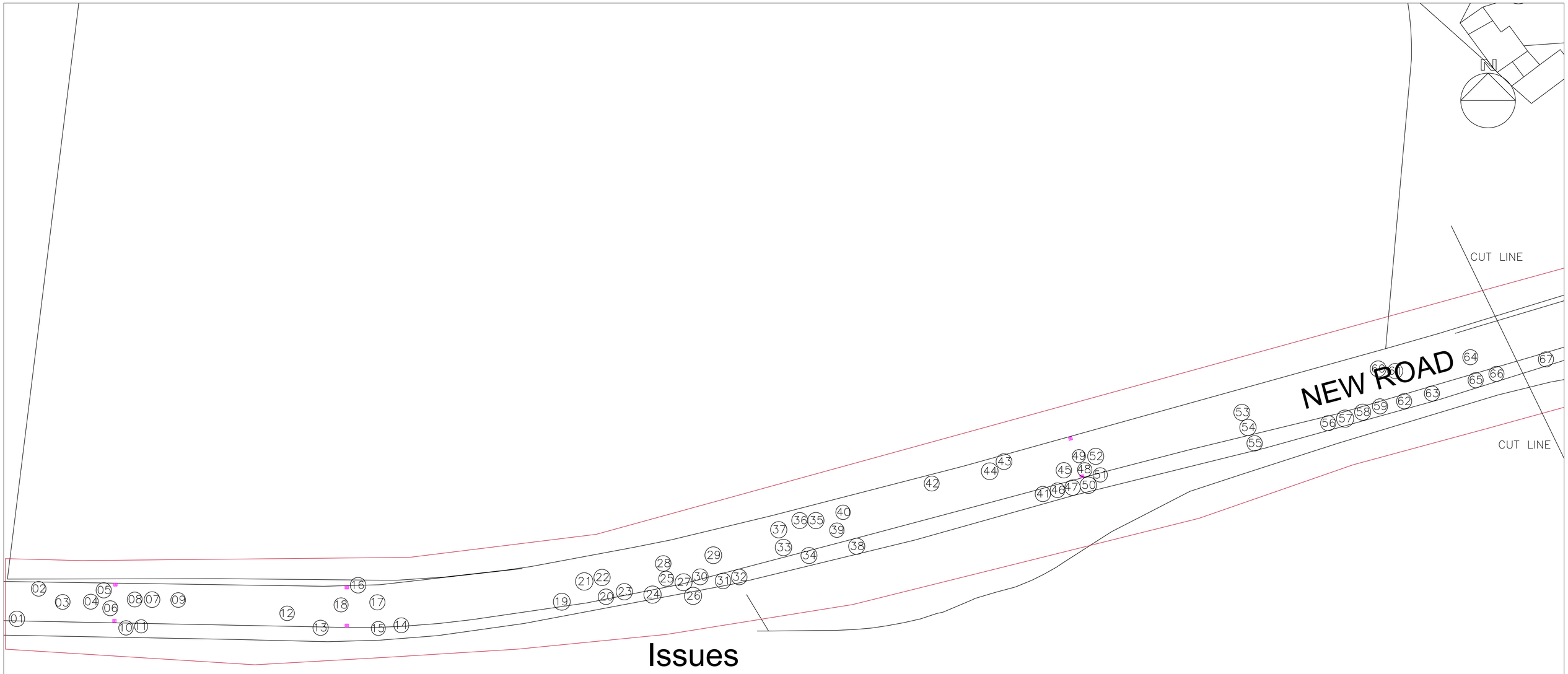
Appendices:

Appendix A – Survey and Photograph Locations

Appendix B – Photographs and Defects Schedule

Appendix A

Survey and Photograph Locations



Issues

REV	DATE	DESCRIPTION

PARAGON HIGHWAYS

PARAGON HIGHWAYS
UNIT 2, THE OFFICE CAMPUS,
PARAGON BUSINESS PARK, RED HALL
COURT, WAKEFIELD WF1 2UY
01924 291536 / PARAGONHIGHWAYS.COM

JOB	DWG	REV
1156	06	

SCALE: 1:250 @A1

DATE: FEB 2017

GENERAL NOTES:

- THIS DRAWING SHOWS THE PROVISIONAL DESIGN ONLY AND IS SUBJECT TO LOCAL AUTHORITY APPROVAL. THIS DRAWING SHOULD NOT BE SCALED FOR SETTING OUT PURPOSES.
- THIS DRAWING IS BASED ON A ORDNANCE SURVEY PROVIDED BY OTHERS.

LIMITS OF CONDITION SURVEY

NEW ROAD, LIDGETT LANE, PILLEY
LIMITS OF CONDITION SURVEY WITH PHOTOGRAPHS

Cottages

N

Woodbine Cottages

Ashleigh

Southey Bank

Victoria Villas

Lacton House

The Yews

Lidgett Cottage

GP

128.3m

2

1

BM 131.64m

CUT LINE

CUT LINE

Station House

LIMITS OF CONDITION SURVEY

GENERAL NOTES:

- THIS DRAWING SHOWS THE PROVISIONAL/DETAILED DESIGN ONLY AND IS SUBJECT TO LOCAL AUTHORITY APPROVAL. THIS DRAWING SHOULD NOT BE SCALED FOR SETTING OUT PURPOSES.
- THIS DRAWING IS BASED ON A TOPOGRAPHICAL/ORDNANCE SURVEY PROVIDED BY OTHERS.

REV	DATE	DESCRIPTION

PARAGON HIGHWAYS
UNIT 2, THE OFFICE CAMPUS,
PARAGON BUSINESS PARK, RED HALL
COURT, WAKEFIELD WF1 2UY
01924 291536 / PARAGONHIGHWAYS.COM

JOB	DWG	REV
1156	07	

SCALE: 1:250 @A1

DATE: FEB 2017

NEW ROAD, LIDGETT LANE, PILLEY
LIMITS OF CONDITION SURVEY WITH PHOTOGRAPHS

Birdwell Dike
Path
144.4m
Strafford Grove
Drill Hall
Tankersley Garden of Rest
142.7m
A 61
MOOR LANE
Lower Pilley
Allot Gdns
FB
Path
DRAWING 1156 02
DRAWING 1156 03
Woodland Villas
Wharncliffe Cottages
Woodbine Cottages
Ashleigh
Southey Bank
Victoria Villas
Hangsman Stone Bar Farm
GP
Lidgett Cottage
The Yews
128.3m
Sinks
BM 131.64m
132.7m
NEW ROAD
FB
Lower School Ho
Tankersley Junior and Infants C of E School
BM 136.34m
136.0m
Upper School House
PC
LB
139.9m
Station House
Depot
Path
WESTWOOD NEW ROAD
WALKER ROAD
MACNAGHTEN ROAD
142.5m
El Sub Sta
BM 144.82m
FENN ROAD
Glebe Court
147.4m
Glebe Court
Path (um)
Rose Cottages
WESTWOOD NEW ROAD
A 61
Shelter
Path (um)
BM 154.58m
155.2m
WESTWOOD NEW ROAD

GENERAL NOTES:

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- THIS DRAWING IS BASED ON A ORDNANCE SURVEY PROVIDED BY OTHERS.

PROPOSED LIMITS OF VISUAL CONDITION SURVEY (VIDEO RECORDING)

REV	DATE	DESCRIPTION

PARAGON HIGHWAYS

PARAGON HIGHWAYS
UNIT 2, THE OFFICE CAMPUS,
PARAGON BUSINESS PARK, RED HALL
COURT, WAKEFIELD WF1 2UY
01924 291536 / PARAGONHIGHWAYS.COM

JOB	DWG	REV
1156	08	

SCALE: 1:1000 @A1
DATE: FEB 2017

NEW ROAD, LIDGETT LANE, PILLEY
PROPOSED LIMITS OF VISUAL CONDITION SURVEY (VIDEO RECORDING)

Appendix B

Photographs and Defects Schedule

PHOTO REF	PHOTOGRAPH DESCRIPTION	CONDITION
1	Carriageway Surface	Standing water, joint failure along crown line, loss of surface course
2	Carriageway Surface, Road Markings	Standing water, joint failure along crown line, loss of surface course, road markings worn
3	Carriageway Surface, Road Markings	Joint failure along crown line, loss of surface course, road markings worn
4	Carriageway Surface	Joint failure along crown line, loss of surface course, vegetation/ detritus in channel
5	Carriageway Surface	Vegetation/ detritus in channel
6	Road Gully	Road gully blocked
7	Carriageway Surface	Joint failure along crown line, loss of surface course, surface texture worn (STW)
8	Carriageway Surface	Joint failure along crown line, loss of surface course, surface texture worn (STW)
9	Carriageway Surface, Road Markings	Joint failure along crown line, loss of surface course, cracking, road markings worn
10	Footway Surface	Crazing
11	Carriageway Surface, Footway Surface, Kerbing	F/W = crazing, C/W = STW, kerb foundation failure?
12	Carriageway Surface	Joint failure, loss of surface course
13	Footway Surface	Weed damage?
14	Footway Surface	Crazing, weed damage?
15	Kerbing	Kerb damage
16	Carriageway Surface	cracking, detritus in channel
17	Carriageway Surface	Joint failure along crown line, loss of surface course
18	Carriageway Surface, Road Markings	Loss of surface course, STW
19	Carriageway Surface, Footway Surface	C/W = loss of surface course, F/W = STW
20	Carriageway Surface, Footway Surface	C/W = loss of surface course STW, F/W = crazing, loss of surface course
21	Carriageway Surface, Road Markings	Joint failure along crown line, loss of surface course, STW, road markings worn
22	Carriageway Surface	STW, detritus in channel
23	Footway Surface	Loss of surface course
24	Kerbing	Kerb damage
25	Footway Surface	STW
26	Carriageway Surface, Footway Surface	C/W = STW, F/W = loss of surface course
27	Carriageway Surface, Footway Surface, Kerbing	C/W = STW, F/W = cracking, kerb damage
28	Carriageway Surface	Joint failure along crown line, loss of surface course
29	Road Markings	Road markings worn
30	Carriageway Surface, Footway Surface, Kerbing	C/W = STW, F/W = STW, cracking, kerb damage
31	Carriageway Surface, Footway Surface	C/W = STW F/W = cracking/ crazing
32	Carriageway Surface, Footway Surface	C/W = STW F/W = cracking/ crazing
33	Carriageway Surface, Road Markings	Cracking, STW/ crazing road markings worn
34	Carriageway Surface, Footway Surface	C/W = STW/ crazing, joint failure along crown line F/W = loss of surface course
35	Carriageway Surface	STW, loss of surface course
36	Carriageway Surface	STW, loss of surface course
37	Carriageway Surface	Crazing, STW
38	Footway Surface, Kerbing, Road Markings	F/W = crazing, kerb damage, road markings worn
39	Carriageway Surface	Crazing, STW
40	Carriageway Surface, Road Markings	STW, joiny failure along crown line, road markings worn
41	Footway Surface/ Reinstatements, Carriageway Surface	F/W = Crazing, loss of surface course along joint line of reinstatement C/W = STW
42	Carriageway Surface, Road Markings	C/W = STW, cracking/ crazing, road markings worn
43	Carriageway Surface/ Reinstatement	STW, crazing, loss of surface course
44	Carriageway Surface/ Reinstatement	STW, crazing, loss of surface course
45	Carriageway Surface	STW
46	Footway Surface	Crazing/ loss of surface course
47	Footway Surface	Crazing/ loss of surface course
48	Carriageway Surface	Depression around gully, STW/ cracking, joint failure along crown line
49	Carriageway Surface, Road Markings	STW, loss of surface course, joint failure, road markings worn
50	Footway surface, Kerbing	STW, loss of surface course, kerb damage
51	Footway Surface	Crazing
52	Carriageway Surface, Road Markings	C/W = STW road markings worn
53	Carriageway Surface, Road Markings	STW, loss of surface course, joint failure along crown line
54	Carriageway Surface, Road Markings	STW, loss of surface course, joint failure along crown line
55	Footway Surface	Crazing
56	Footway Surface	Crazing
57	Footway Surface	Crazing STW
58	Footway Surface	STW
59	Footway Surface, Kerbing	STW, kerb damage
60	Carriageway Surface	STW along crown line
61	Carriageway Surface	STW along crown line
62	Carriageway Surface, Footway Surface	C/W = crazing F/W = crazing
63	Carriageway Surface, Footway Surface	C/W = depression/ crazing around MH F/W = STW, crazing
64	Carriageway Surface	STW along crown line
65	Footway Surface	Crazing/ cracking, STW
66	Footway Surface	Crazing, STW
67	Footway Surface	Crazing, loss of surface course, STW
68	Footway Surface	Crazing, STW
69	Footway Surface	Crazing/ cracking
70	Carriageway Surface	Cracking/ depression around FH, STW
71	Carriageway Surface	STW along crown line
72	Footway Surface, Kerbing	Crazing/ cracking, kerb damage
73	Footway Surface, Kerbing	Crazing, kerb foundation failure
74	Carriageway Surface	STW, along crown line
75	Carriageway Surface, Road Markings	C/W = STW along crown line, road markings
76	Kerbing	Kerbing uneven/ damaged
77	Road Gully	Road gully blocked
78	Road Gully	Road gully partially blocked

79	Footway Surface	Crazing
80	Carriageway Surface	STW along crown line
81	Footway Surface Reinstatement	Cracking/ crazing
82	Footway Surface, Kerbing	Crazing, kerb damage
83	Carriageway Surface	STW, loss of surface course
84	Footway Surface, Kerbing	Crazing, kerb damage
85	Carriageway Surface, Footway Surface	C/W = STW F/W = STW, loss of surface course
86	Footway Surface	STW, crazing, loss of surface course
87	Carriageway Surface	loss of surface course along crown line
88	Carriageway Surface, Road Markings	STW, crazing, cracking, road markings worn
89	Footway Surface	STW, crazing, loss of surface course
90	Carriageway Surface	Cracking
91	Carriageway Surface, Road Markings	STW, loss of surface course, road markings worn
92	Carriageway Surface, Road Markings	STW, loss of surface course, road markings worn
93	Footway Surface	STW, crazing, loss of surface course
94	Carriageway Surface, Road Markings	STW, road markings worn
95	Footway Surface	STW, loss of surface course, cracking
96	Carriageway Surface, Road Markings	STW, road markings worn
97	Footway Surface/ Reinstatement	Cracking/ crazing, STW
98	Footway Surface	STW, loss of surface course
99	Carriageway Surface, Kerbing, Road Markings	STW, road markings worn, kerb foundation failure
100	Carriageway Surface, Road Markings	STW, loss of surface course, road markings worn
101	Carriageway Surface	STW along crown line
102	Carriageway Surface	STW, loss of surface course
103	Carriageway Surface	STW, loss of surface course
104	Carriageway Surface	Cracking/ crazing, loss of surface course around gully
105	Carriageway Surface	Cracking/ crazing, loss of surface course around gully
106	Carriageway Surface	Cracking
107	Carriageway Surface	Cracking/ crazing, STW
108	Kerbing	Kerb damage
109	Carriageway Surface, Kerbing, Road Markings	C/W = major crazing/ cracking, loss of surface course, kerb damage, road markings worn
110	Road Markings	Road markings worn
111	Carriageway Surface	STW along joint line at junction
112	Carriageway Surface	STW, loss of surface course



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112